

PILGRIM NUCLEAR POWER STATION

Radioactive Effluent and Waste Disposal Report including Meteorological Data

January 1 through June 30, 1994



BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT
INCLUDING METEOROLOGICAL DATA
JANUARY 1 THROUGH JUNE 30, 1994

Prepared by: Kenneth J. Sejkora 22 Aug 94
K. J. Sejkora
Senior Environmental Engineer

Approved by: A. R. Williams 24 Aug 94
A. R. Williams
Chemistry & Radwaste Section Manager (Acting)

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1. Introduction	1
2. Radioactive Effluent Data	1
3. Radioactive Waste Disposal Data	9
4. Meteorological Data	14
5. Off-Site Dose Calculation Manual Revisions	47
6. References	48

LIST OF TABLES

<u>Table</u>	<u>Page</u>
Supplemental Information	3
1A Gaseous Effluents - Summation of All Releases	4
1B Gaseous Effluents - Elevated Release	5
1C Gaseous Effluents - Ground Level Release	6
2A Liquid Effluents - Summation of All Releases	7
2B Liquid Effluents	8
3 Solid Waste and Irradiated Fuel Shipments	10
4A-1 Distribution of Wind Directions and Speeds for the 33 ft. Level of the 220 ft. Tower	15
4A-2 Distribution of Wind Directions and Speeds for the 220 ft. Level of the 220 ft. Tower	31

EXECUTIVE SUMMARY

BOSTON EDISON COMPANY Pilgrim Nuclear Power Station Radioactive Effluent and Waste Disposal Report including Meteorological Data January 1 to June 30, 1994

INTRODUCTION

This report quantifies the radioactive gaseous, liquid, and radwaste releases, and summarizes the local meteorological data for the period from January 1 to June 30, 1994. This document has been prepared in accordance with the requirements set forth in the Pilgrim Nuclear Power Station (PNPS) Technical Specifications and Revision 1 of 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."

Regulatory Guide 1.21 requires an assessment of the radiological impact on man resulting from radioactivity released in liquid and gaseous effluents. This assessment is to be performed using effluent and meteorological data collected during the semiannual period covered by the report. Due to the complexity of calculations involved with performing such an assessment, it was impractical to complete the assessment within the 60 day issuance requirement for the report. Therefore, PNPS Technical Specifications were modified in May 1988 (Amendment #116) to allow for submission of a supplemental report containing the radiological impact assessments. This report is to be issued by April 1, 1995, and is to contain impact assessments for both semiannual periods (January-June, July-December) for the previous year. Since Technical Specification limits for gaseous effluents listed in Table 1A are based on calculated dose, these values are not presented in the semiannual effluent release report. These "Percent of technical specification limit" values will be presented in the supplemental report issued prior to April 1, 1995.

The quantity of radioactive material released from Pilgrim Station was determined from sample analyses of gaseous releases from the main stack and the reactor building vent, and liquid releases into the discharge canal. The quantity and volume of radioactive waste which was shipped off-site from Pilgrim Station for burial was determined from data contained on the radwaste shipping documentation. The meteorological data were obtained from instrumentation measurements from the 220 foot meteorological tower located at Pilgrim Station.

GASEOUS EFFLUENTS

The gaseous radioactive releases from January 1 to June 30, 1994 are quantified in Tables 1A, 1B and 1C. Radioactive noble gases released during the period totalled 1077 curies. Releases of radioactive particulates and iodines from the main stack, reactor building vent, and turbine building, totalled 0.074 curies, and tritium releases totalled 16.2 curies. No gross alpha radioactivity was detected in gaseous effluents.

LIQUID EFFLUENTS

The liquid radioactive releases from January 1 to June 30, 1994 are quantified in Tables 2A and 2B. Liquid effluents into the discharge canal resulted in a total release to the environment (Cape Cod Bay) of 0.00059 curies of fission and activation products and 0.23 curies of tritium. Dissolved and entrained gases were not detected in liquid effluent. No gross alpha radioactivity was detected.

LIQUID EFFLUENTS (continued)

During preparation of liquid effluent data for this report, it was found that some releases of tritium in neutralizing sump discharges were not included in the effluent release reports prepared for calendar year 1993. Excess water from the turbine building closed cooling water system (TBCCW), which contained small amounts of tritium, was drained to the neutralizing sump and subsequently discharged. Liquid effluent tables for the affected periods will be revised accordingly and issued as a forthcoming supplemental report.

SOLID WASTE

The solid radioactive waste shipped off-site for burial during the reporting period is described and quantified in Table 3. Approximately 151 cubic meters of solid waste was shipped off-site for processing and burial with a total activity of approximately 472 curies (major nuclides: Co-60, Fe-55 and Cs-137).

METEOROLOGICAL DATA

The meteorological data joint frequency distributions are listed in Tables 4A-1 and 4A-2. The percent data recovery for the period of January - June 1994 was 97.6% on the 33 foot elevation and 98.3% on the 220 foot elevation of the 220 foot meteorological tower at Pilgrim Station.

The predominant wind direction was from the south-southwest, which occurred approximately 15% of the time during this period. The predominant wind speed range at the 220 foot sensor was 13 to 18 mph, which occurred 34% of the time during this period. The predominant wind speed range at the 33 foot sensor was 4 to 7 mph, which occurred approximately 43% of the time. The predominant stability class was stability class D, which occurred about 33% of the time during this period.

CONCLUSION

The PNPS Technical Specifications contain limiting conditions for operations and operational objectives regarding radiological environmental releases. None of the limiting conditions for operation or operational objectives associated with liquid or gaseous effluents were exceeded during this reporting period, as confirmed by conservative dose assessments performed on a monthly basis during this period. Official dose assessments will be published in a supplement to this report due 90 days following January 1, 1995. Conformance to these PNPS Technical Specification operational objectives ensures that the releases of radioactive materials in gaseous and liquid effluents were kept as low as is reasonably achievable in accordance with the Nuclear Regulatory Commission's regulation 10CFR50, Appendix I. Furthermore, compliance with PNPS Technical Specifications demonstrates compliance with the Environmental Protection Agency's (EPA) federal environmental regulation 40CFR190.10, Subpart B.

1. INTRODUCTION

This report is issued for the period January 1 to June 30, 1994 in accordance with the Boston Edison Company's PNPS Technical Specifications and 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," Revision 1 (Reference 1).

Regulatory Guide 1.21 requires an assessment of the radiological impact on man resulting from radioactivity released in liquid and gaseous effluents. This assessment is to be performed using effluent and meteorological data collected during the semiannual period covered by the report. Due to the complexity of calculations involved with performing such an assessment, it was impractical to complete the assessment within the 60 day issuance requirement for the report. Therefore, PNPS Technical Specifications were modified in May 1988 (Amendment #116) to allow for submission of a supplemental report containing the radiological impact assessments. This report is to be issued by April 1, 1995, and is to contain impact assessments for both semiannual periods (January-June, July-December) for the previous year. Since Technical Specification limits for gaseous effluents listed in Table 1A are based on calculated dose, these values are not presented in the semiannual effluent release report. These "Percent of technical specification limit" values will be presented in the supplemental report issued prior to April 1, 1995.

2. RADIOACTIVE EFFLUENT DATA

Radioactive liquid and gaseous releases (Reference 2) for the period January 1 to June 30, 1994 are given in the standard NRC Regulatory Guide 1.21 format in Tables 1A, 1B, 1C, 2A, 2B, and the supplemental information form.

2.1 Gaseous Effluents

Gaseous radioactivity is released from Pilgrim Station to the atmosphere from the main stack and the reactor building exhaust vent. The quarterly summaries of gaseous effluent releases are summarized in Table 1A. Noble gases released during the period totalled 1077 curies, for an average release rate of 68.3 $\mu\text{Ci/sec}$. A total of 0.074 curies of radioactive iodines and particulates with half-lives greater than 8 days was released at an average release rate of 0.0047 $\mu\text{Ci/sec}$. Gross alpha radioactivity was not detected on particulate filters during this reporting period. A total of 16.2 curies of tritium was released at an average release rate of 1.03 $\mu\text{Ci/sec}$.

The main stack is an elevated release point with a height of approximately 400 feet above mean sea level. The main stack is located about 700 feet west-northwest of the reactor building. The quarterly summaries for elevated releases for 1994 are shown in Table 1B.

The majority of ground-level releases during the period occurred from the reactor building vent, but low levels of radionuclides were also detected in air exhausted from the turbine building. The reactor building exhaust vent is considered a mixed-mode/ground-level release point with a height of approximately 182 feet above mean sea level. The exhaust vent is located on the west corner of the reactor building. Combined ground level releases from both the reactor building vent and turbine building are shown in Table 1C.

There was one occurrence of gaseous effluent discharge which was classified as an abnormal release during the reporting period. On March 5, 1994 the reactor was being returned to full power operation following a shut-down to repair a main steam isolation valve. During this power ascension, recondensed steam (water) was blown into the augmented offgas system (AOG). This occurrence resulted in an increase in the releases of noble gases, particulates and iodines, and tritium for a 6-day period. Although the bulk of the water was removed from the AOG, the latent moisture remaining has resulted in a somewhat diminished performance of the system. The AOG is scheduled to be dried out during the mid-cycle outage in October of 1994. Due to the extended duration of this event, the releases during the event were considered to be part of the continuous release which had occurred during the reporting period.

2.2 Liquid Effluents

Liquid radioactivity is released from Pilgrim Station to the Cape Cod Bay via the circulating water discharge canal. These effluent releases enter the Cape Cod Bay at the outfall of the canal which is located about 1100 feet north from the reactor building.

The quarterly liquid releases are summarized in Table 2A. A total of approximately 419,000 liters of radioactive liquid waste (prior to dilution) containing 0.00059 curies of fission and activation products (excluding tritium, gases, and alpha-emitting nuclides) was discharged with a total dilution volume of approximately 1.4 billion liters of water. The liquid effluents were released at an average concentration of fission and activation products of $4.34\text{E-}10$ $\mu\text{Ci/ml}$ during the reporting period. A total of 0.23 curies of tritium was released, resulting in an average concentration of $1.68\text{E-}7$ $\mu\text{Ci/ml}$. No dissolved and entrained gases were detected in liquid effluents during the period. Alpha radioactivity was not detected during this reporting period. Quarterly release estimates and principal radionuclides in the liquid effluents are given in Table 2B.

During preparation of liquid effluent data for this report, it was found that some releases of tritium in neutralizing sump discharges were not included in the effluent release reports prepared for calendar year 1993. Excess water from the turbine building closed cooling water system (TBCCW), which contained small amounts of tritium, was drained to the neutralizing sump and subsequently discharged. These discharges did not contain detectable gamma-emitting radionuclides and had originally been considered as non-radioactive. Further analyses of the neutralizing sump in 1994 identified the presence of tritium in the discharges. Previous neutralizing sump discharges containing TBCCW water were re-evaluated for tritium content back to the timeframe when tritium was assumed to have entered the system. Liquid effluent tables for the affected periods will be revised accordingly and issued as a forth-coming supplemental report.

PILGRIM NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SUPPLEMENTAL INFORMATION 1994
January - June 1994

Facility Pilgrim Nuclear Power Station Licensee DPR-35

1. Regulatory Limits

- a. Fission and activation gases: 500 mrem/yr total body and 3000 mrem/yr for skin at site boundary.
- b,c. Iodines, particulates with half-lives > 8 days, tritium: 1500 mrem/yr to any organ at site boundary.
- d. Liquid effluents: 0.06 mrem/month for total body and 0.20 mrem/month for any organ (without radwaste treatment).

2. Maximum Permissible Concentration

- a. Fission and activation gases: 10 CFR 20 Appendix B Table II
- b. Iodines: 10 CFR 20 Appendix B Table II
- c. Particulates, half-lives > 8 days: 10 CFR 20 Appendix B Table II
- d. Liquid effluents: 2E-4 $\mu\text{Ci/ml}$ for entrained noble gases; 10 CFR 20 Appendix B Table II values for all other radionuclides.

3. Average Energy: Not applicable

4. Measurements and Approximations of Total Radioactivity

- a. Fission and activation gases: High-purity Ge gamma spectroscopy for all gamma emitters; radiochemistry
- b. Iodines: analysis for H-3, Fe-55 (liquids only), Sr-89, and Sr-90.
- c. Particulates:
- d. Liquid effluents:

5. Batch Releases

- a. Liquid:
 - 1. Number of batch releases:
 - 2. Total time period for batch releases (minutes):
 - 3. Maximum time period for a batch release (minutes):
 - 4. Average time period for batch releases (minutes):
 - 5. Minimum time period for a batch release (minutes):
 - 6. Average stream flow during periods of release of effluents into a flowing stream (liters/min):

Quarter	
1st	2nd
20	22
1.40E+3	1.67E+3
2.40E+2	3.15E+2
6.98E+1	7.57E+1
2.50E+1	2.50E+1
1.14E+6	1.14E+6

- b. Gaseous: Not applicable

6. Abnormal Releases

- a. Liquid: None
- b. Gaseous: One

TABLE 1A
PILGRIM NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1994
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES
January - June 1994

Unit	Quarter 1st	Quarter 2nd	Est.Total Error, %
------	----------------	----------------	-----------------------

A. Fission and Activation Gases

1. Total release	Ci	5.47E+2	5.30E+2	22%
2. Average release rate for period	uCi/sec	6.94E+1	6.72E+1	
3. Percent of Technical Specification limit	%	*	*	

B. Iodines

1. Total iodine-131 release	Ci	3.77E-3	5.11E-3	20%
2. Average release rate for period	uCi/sec	4.78E-4	6.48E-4	
3. Percent of Technical Specification limit	%	*	*	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	2.61E-3	2.45E-3	21%
2. Average release rate for period	uCi/sec	3.31E-4	3.11E-4	
3. Percent of Technical Specification limit	%	*	*	
4. Gross alpha radioactivity	Ci	NDA	NDA	

D. Tritium

1. Total release rate for period	Ci	8.45E+0	7.78E+0	20%
2. Average release rate for period	uCi/sec	1.07E+0	9.87E-1	
3. Percent of Technical Specification limit	%	*	*	

Notes for Table 1A:

- * Percent of Technical Specification Limit Values in Sections A.3, B.3, C.3, and D.3 are based on dose assessments not performed as part of this report. These will be provided in the annual supplemental dose assessment report to be issued prior to April 1, 1995.

1. NDA is no detectable activity.
2. LLD for gross alpha listed as NDA is 1E-11 μ Ci/ml.

TABLE 1B
PILGRIM NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1994
GASEOUS EFFLUENTS-ELEVATED RELEASE
January - June 1994

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1st	Quarter 2nd	Quarter N/A	Quarter N/A

1. Fission and Activation Gases

N-13	Ci	NDA	3.59E+0		
Kr-85m	Ci	2.75E+1	5.15E+1		
Kr-87	Ci	2.63E+1	2.72E+1		
Kr-88	Ci	4.09E+1	7.25E+1		
Xe-133	Ci	2.76E+1	6.80E+1		
Xe-135	Ci	5.27E+1	4.46E+1		
Xe-135m	Ci	2.08E+1	2.33E+1		
Xe-138	Ci	7.26E+1	1.08E+2		
Total for period	Ci	2.68E+2	3.99E+2		

2. Iodines

I-131	Ci	1.89E-3	2.82E-3		
I-133	Ci	9.12E-3	1.49E-2		
Total for period	Ci	1.10E-2	1.77E-2		

3. Particulates

Sr-89	Ci	3.22E-4	6.10E-4		
Sr-90	Ci	NDA	2.12E-6		
Cs-134	Ci	NDA	NDA		
Cs-137	Ci	1.95E-6	1.16E-5		
Ba/La-140	Ci	4.34E-4	8.17E-4		
Total for period	Ci	7.58E-4	1.44E-3		

4. Tritium

H-3	Ci	2.04E-1	2.52E-1		
-----	----	---------	---------	--	--

Notes for Table 1B:

1. NDA is no detectable activity.
2. LLDs for nuclides listed as NDA are as follows:

Fission gases: 1E-4 $\mu\text{Ci/ml}$
Iodines: 1E-12 $\mu\text{Ci/ml}$
Particulates: 1E-11 $\mu\text{Ci/ml}$

TABLE 1C
PILGRIM NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1994
GASEOUS EFFLUENTS-GROUND LEVEL RELEASE
January - June 1994

Nuclides Released	CONTINUOUS MODE		BATCH MODE	
	Unit	Quarter	Quarter	Quarter
		1st	2nd	N/A

1. Fission and Activation Gases

Kr-85m	Ci	1.25E+0	NDA	
Kr-87	Ci	8.72E+0	NDA	
Kr-88	Ci	4.98E+0	NDA	
Xe-133	Ci	NDA	NDA	
Xe-135	Ci	1.62E+2	1.31E+2	
Xe-135m	Ci	1.99E+1	NDA	
Xe-138	Ci	8.09E+1	NDA	
Total for period	Ci	2.78E+2	1.31E+2	

2. Iodines

I-131	Ci	1.88E-3	2.29E-3	
I-133	Ci	1.62E-2	1.96E-2	
Total for period	Ci	1.81E-2	2.19E-2	

3. Particulates

Co-60	Ci	NDA	5.39E-6	
Sr-89	Ci	1.10E-3	4.82E-4	
Sr-90	Ci	NDA	NDA	
Cs-134	Ci	NDA	NDA	
Cs-137	Ci	1.06E-5	4.69E-6	
Ba/La-140	Ci	7.42E-4	5.14E-4	
Total for period	Ci	1.85E-3	1.01E-3	

4. Tritium

H-3	Ci	8.25E+0	7.53E+0	
-----	----	---------	---------	--

Notes for Table 1C:

1. NDA is no detectable activity.
2. LLDs for nuclides listed as NDA are as follows:

Fission gases: 1E-4 μ Ci/ml
Iodines: 1E-12 μ Ci/ml
Particulates: 1E-11 μ Ci/ml

TABLE 2A
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1994
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES
January - June 1994

Unit	Quarter 1st	Quarter 2nd	Est.Total Error, %
------	----------------	----------------	-----------------------

A. Fission and Activation Products

1. Total release (not including tritium, noble gases, or alpha)	Ci	3.40E-4	2.52E-4	12%
2. Average diluted concentration during period	uCi/ml	4.97E-10	3.70E-10	
3. Percent of applicable MPC limit*	%	1.65E-2	1.67E-2	

B. Tritium

1. Total release	Ci	9.74E-2	1.31E-1	9.4%
2. Average diluted concentration during period	uCi/ml	1.42E-7	1.93E-7	
3. Percent of applicable MPC limit*	%	1.42E-2	1.93E-2	

C. Dissolved and Entrained Gases

1. Total release	Ci	NDA	NDA	5.7%
2. Average release rate for period during period	uCi/ml	NDA	NDA	
3. Percent of applicable MPC limit*	%	0.00E+0	0.00E+0	

D. Gross Alpha Radioactivity

1. Total release	Ci	NDA	NDA	5.7%
------------------	----	-----	-----	------

E. Volume of Waste Released (prior to dilution)

liters	1.81E+5	2.38E+5	5.7%
--------	---------	---------	------

F. Volume of Dilution Water Used During Period

liters	6.84E+8	6.81E+8	10%
--------	---------	---------	-----

Notes for Table 2A:

* Additional percent of Technical Specification Limit Values based on resulting dose will be provided in the annual supplemental dose assessment report to be issued prior to April 1, 1995.

1. NDA is no detectable activity.
2. LLD for gross alpha listed as NDA is $1\text{E-}7 \mu\text{Ci/ml}$.
3. LLD for dissolved and entrained gases listed as NDA is $1\text{E-}5 \mu\text{Ci/ml}$.

TABLE 2B
PILGRIM NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1994
LIQUID EFFLUENTS
January - June 1994

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter	Quarter	Quarter	Quarter
		Not Applicable		1st	2nd

1. Fission and activation products

Cr-51	Ci	N/A	N/A	8.77E-7	NDA
Mn-54	Ci	N/A	N/A	2.92E-5	1.49E-5
Fe-55	Ci	N/A	N/A	7.16E-5	4.47E-5
Fe-59	Ci	N/A	N/A	NDA	NDA
Co-58	Ci	N/A	N/A	4.68E-6	NDA
Co-60	Ci	N/A	N/A	1.72E-4	1.26E-4
Zn-65	Ci	N/A	N/A	NDA	NDA
Sr-89	Ci	N/A	N/A	1.25E-5	1.78E-6
Sr-90	Ci	N/A	N/A	3.35E-6	5.49E-6
Zr/Nb-95	Ci	N/A	N/A	NDA	NDA
Mo-99/Tc-99m	Ci	N/A	N/A	NDA	NDA
Ag-110m	Ci	N/A	N/A	NDA	NDA
Sb-122	Ci	N/A	N/A	NDA	NDA
I-131	Ci	N/A	N/A	NDA	NDA
I-133	Ci	N/A	N/A	NDA	NDA
Cs-137	Ci	N/A	N/A	4.57E-5	5.95E-5
Ba/La-140	Ci	N/A	N/A	NDA	NDA
Ce-141	Ci	N/A	N/A	NDA	NDA
Total for period	Ci	N/A	N/A	3.40E-4	2.52E-4

2. Dissolved and entrained gases

Xe-133	Ci	N/A	N/A	NDA	NDA
Xe-135	Ci	N/A	N/A	NDA	NDA
Total for period	Ci	N/A	N/A	NDA	NDA

Notes for Table 2B:

- 1) NDA is no detectable activity.
- 2) LLDs for nuclides listed as NDA are as follows:

Sr-89	5E-8 $\mu\text{Ci/ml}$
I-131	1E-6 $\mu\text{Ci/ml}$
Xe-133, Xe-135	1E-5 $\mu\text{Ci/ml}$
All others	5E-7 $\mu\text{Ci/ml}$

3. RADIOACTIVE WASTE DISPOSAL DATA

Radioactive wastes which were shipped off-site for burial during the period January 1 to June 30, 1994 are given in Table 3, in the standard NRC Regulatory Guide 1.21 format.

The semiannual total quantity of radioactivity in curies and the total volume in cubic meters for the following categories or waste types are listed in Table 3:

- a. Spent resins, filter sludges, evaporator bottoms;
- b. Dry compressible waste, contaminated equipment, etc.;
- c. Irradiated components, control rods, etc.; and,
- d. Other (cartridge filters).

During January 1 to June 30, 1994 approximately 74.6 cubic meters of spent resins, filter sludges, etc. with a total activity of about 138 curies were shipped from Pilgrim Station to an approved burial site. Approximately 69.1 cubic meters of dry compressible waste or contaminated equipment containing about 3.52 curies of activity was shipped off-site for burial during this period. Velocity limiters containing 196 curies of activity, and a number of cartridge filters containing 134 curies of activity, were shipped off-site for disposal during the reporting period. Irradiated fuel shipments were not made during this period.

Seventeen shipments to Barnwell, SC (Chem Nuclear Systems, Inc.), three shipments to Oak Ridge, TN (Scientific Ecology Group), and four shipments to Wampum, PA (Alaron Corp.) were made during the period January 1 to June 30, 1994. Estimates of major radionuclides shipped off-site are listed in Table 3.

TABLE 3

PILGRIM NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1994)
JANUARY - JUNE 1994

A. SOLID WASTE SHIPPED OFF-SITE FOR BURIAL OR DISPOSAL. (NOT IRRADIATED FUEL)

1. Type of waste

		6 MONTH PERIOD		EST. TOTAL ERROR %
		VOLUME m ³	ACTIVITY Ci	
a.	Spent resins, filter sludges, evaporator bottoms, etc.	7.46E+01	1.38E+02	± 25
b.	Dry compressible waste,	6.91E+01	3.52E+00	± 25
c.	Irradiated components, 55 velocity limiters	3.75E+00	1.96E+02	± 25
d.	Other miscellaneous low- level waste (cartridge filters)	3.75+00	1.34E+02	± 25
TOTAL COMBINED WASTE		1.51E+02	4.72E+02	± 25

2. Estimate of major composition. (By type of waste)

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

<u>NUCLIDE NAME</u>	<u>CURIES</u>	<u>PERCENT ABUNDANCE</u>
H-3	2.58E-02	0.02%
C-14	5.39E-01	0.39%
Cr-51	1.92E-01	0.14%
Mn-54	1.03E+01	7.48%
Fe-55	3.37E+01	24.44%
Fe-59	3.55E-01	0.26%
Co-58	5.06E+00	3.67%
Co-60	6.59E+01	47.75%
Ni-59	1.71E-03	< .001%
Ni-63	1.11E+00	0.81%
Sr-90	7.14E-02	0.05%
I-131	6.45E-02	0.05%
Cs-137	1.33E+01	9.64%
Ce-144	7.27E+00	5.27%
Pu-238	1.39E-03	< .001%
Pu-239/240	1.60E-03	< .001%
Pu-241	9.61E-02	0.07%
Am-241	1.70E-03	< .001%
Cm-242	1.26E-03	< .001%
Total	1.38E+02	

b. Dry compressible waste, contaminated equipment etc.

<u>NUCLIDE NAME</u>	<u>CURIES</u>	<u>PERCENT ABUNDANCE</u>
Cr-51	2.36E-02	0.67%
Mn-54	2.05E-01	5.83%
Fe-55	2.32E+00	65.89%
Fe-59	2.24E-02	0.64%
Co-58	1.68E-02	0.48%
Co-60	7.27E-01	20.65%
Ni-59	3.42E-04	0.01%
Ni-63	4.32E-02	1.23%
Sr-89	4.44E-03	0.13%
Sr-90	2.11E-03	0.06%
Nb-95	7.48E-03	0.21%
Ru-103	2.10E-03	0.06%
Cs-134	3.04E-03	0.09%
Cs-137	7.35E-02	2.09%
Ce-144	6.57E-02	1.87%
Pu-238	2.34E-05	< .001%
Pu-239/240	2.34E-05	< .001%
Pu-241	3.22E-03	0.09%
Am-241	2.34E-04	0.01%
Cm-242	3.93E-05	< .001%
Cm-243/244	2.34E-05	< .001%
Total	3.52E+00	

c. Irradiated components, control rods, etc.

<u>NUCLIDE NAME</u>	<u>CURIES</u>	<u>PERCENT ABUNDANCE</u>
C-14	1.13E-02	0.01%
Fe-55	9.52E+01	48.70%
Co-60	9.31E+01	47.60%
Ni-59	4.18E-02	0.02%
Ni-63	7.16E+00	3.70%
Nb-94	1.15E-04	< .001%
Tc-99	6.13E-05	< .001%
Pu-241	7.13E-07	< .001%
Cm-242	5.63E-09	< .001%
Total	1.96E+02	

d. Other (cartridge filters).

<u>NUCLIDE NAME</u>	<u>CURIES</u>	<u>PERCENT ABUNDANCE</u>
H-3	3.21E-02	0.02%
Mn-54	1.77E+00	1.32%
Fe-55	5.14E+01	38.36%
Co-60	5.20E+01	38.81%
Ni-63	1.31E+01	9.78%
Sr-90	5.26E-04	< .001%
Cs-137	1.23E+01	9.18%
Ce-144	3.47E+00	2.59%
Pu-238	2.58E-03	< .001%
Pu-239/240	3.49E-03	< .001%
Pu-241	1.27E-01	0.10%
Am-241	9.37E-03	0.01%
Cm-242	4.17E-04	< .001%
Cm-243/244	1.90E-03	< .001%
Total	1.34E+02	

3. Solid Waste Disposition

<u>NUMBER OF SHIPMENTS</u>	<u>MODE OF TRANSPORTATION</u>	<u>DESTINATION</u>
17	Tractor-Trailer	Chem Nuclear Systems Inc., Barnwell, SC
3	Tractor-Trailer	Scientific Ecology Group, Oak Ridge, TN/ Barnwell, SC+
4	Tractor-Trailer	Alaron, Wampum, PA/ Barnwell, SC++

+ Contaminated wastes are shipped to Scientific Ecology Group, Oak Ridge, TN for volume reduction processing. After processing, the remaining wastes were shipped to Chem Nuclear Systems, Inc., Barnwell, SC for burial under Boston Edison's burial allocation.

++ Contaminated wastes are shipped to Alaron Corp., Wampum, PA for volume reduction/salvage. After processing, the remaining wastes were shipped to Chem Nuclear Systems, Inc., Barnwell, SC for burial under Boston Edison's burial allocation.

B. IRRADIATED FUEL SHIPMENTS (DISPOSITION)

<u>NUMBER OF SHIPMENTS</u>	<u>MODE OF TRANSPORTATION</u>	<u>DESTINATION</u>
NONE	N/A	N/A

4. METEOROLOGICAL DATA

Meteorological data (Reference 3) for the period January 1 to June 30, 1994 is given in Tables 4A-1 and 4A-2 in the standard joint frequency distribution format as given in NRC Regulatory Guide 1.21.

The predominant wind direction was from the south-southwest, which occurred about 15% of the time during this period. The predominant wind speed range at the 220 foot sensor was 13 to 18 mph, which occurred with a frequency of 34% during this period. The predominant wind speed range at the 33 foot sensor was 4 to 7 mph, which occurred approximately 43% of the time. The predominant stability class was stability class D, which occurred about 33% of the time during this period.

There were a few instances where the data recorded by the 220 foot tower were not continuous. Typically, data losses were due to loss of power, malfunction of the sensors, and/or malfunction of the digital dataloggers. The net result is that the data recovery for the period was 97.6% on the 33 foot elevation and 98.3% on the 220 foot elevation of the 220 foot meteorological tower at Pilgrim Station.

TABLE 4A-1

DISTRIBUTION OF WIND DIRECTIONS
AND SPEEDS FOR THE 33 FT. LEVEL
OF THE 220 FT. TOWER

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 19.48

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
C-3	3	4	1	0	1	0	1	1	0	2	6	6	3	3	3	2	0	36
(1)	.74	.99	.25	.00	.25	.00	.25	.25	.00	.50	1.49	1.49	.74	.74	.74	.50	.00	8.91
(2)	.14	.19	.05	.00	.05	.00	.05	.05	.00	.10	.29	.29	.14	.14	.14	.10	.00	1.74
4-7	16	9	10	7	2	4	2	2	1	17	14	9	13	15	20	18	0	159
(1)	3.96	2.23	2.48	1.73	.50	.99	.50	.50	.25	4.21	3.47	2.23	3.22	3.71	4.95	4.46	.00	39.36
(2)	.77	.43	.48	.34	.10	.19	.10	.10	.05	.82	.68	.43	.63	.72	.96	.87	.00	7.67
8-12	10	12	2	7	0	6	7	6	4	13	6	10	25	29	14	15	0	166
(1)	2.48	2.97	.50	1.73	.00	1.49	1.73	1.49	.99	3.22	1.49	2.48	6.19	7.18	3.47	3.71	.00	41.09
(2)	.48	.58	.10	.34	.00	.29	.34	.29	.19	.63	.29	.48	1.21	1.40	.68	.72	.00	8.00
13-18	5	0	0	2	0	0	1	0	1	5	1	3	10	8	0	0	0	36
(1)	1.24	.00	.00	.50	.00	.00	.25	.00	.25	1.24	.25	.74	2.48	1.98	.00	.00	.00	8.91
(2)	.24	.00	.00	.10	.00	.00	.05	.00	.05	.24	.05	.14	.48	.39	.00	.00	.00	1.74
19-24	0	0	0	3	0	0	0	0	2	0	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.74	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00	1.24
(2)	.00	.00	.00	.14	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.24
GT 24	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
ALL SPEEDS	35	25	13	20	3	10	11	9	8	37	27	28	51	55	37	35	0	404
(1)	8.66	6.19	3.22	4.95	.74	2.48	2.72	2.23	1.98	9.16	6.68	6.93	12.62	13.61	9.16	8.66	.00	100.00
(2)	1.69	1.21	.63	.96	.14	.48	.53	.43	.39	1.78	1.30	1.35	2.46	2.65	1.78	1.69	.00	19.48

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 3.91

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	4
(1)	1.23	.00	.00	.00	.00	.00	.00	.00	.00	1.23	1.23	.00	1.23	.00	.00	.00	.00	4.94
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.05	.00	.00	.00	.00	.19
4-7	2	2	1	0	1	1	1	2	0	0	0	4	4	3	2	1	0	24
(1)	2.47	2.47	1.23	.00	1.23	1.23	1.23	2.47	.00	.00	.00	4.94	4.94	3.70	2.47	1.23	.00	29.63
(2)	.10	.10	.05	.00	.05	.05	.05	.10	.00	.00	.00	.19	.19	.14	.10	.05	.00	1.16
8-12	4	0	1	1	0	0	1	1	4	3	2	7	9	6	3	3	0	45
(1)	4.94	.00	1.23	1.23	.00	.00	1.23	1.23	4.94	3.70	2.47	8.64	11.11	7.41	3.70	3.70	.00	55.56
(2)	.19	.00	.05	.05	.00	.00	.05	.05	.19	.14	.10	.34	.43	.29	.14	.14	.00	2.17
13-18	0	0	0	1	0	0	0	0	0	0	0	1	3	1	0	1	0	7
(1)	.00	.00	.00	1.23	.00	.00	.00	.00	.00	.00	.00	1.23	3.70	1.23	.00	1.23	.00	8.64
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.14	.05	.00	.05	.00	.34
19-24	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.23	.00	.00	.00	.00	1.23
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	2	2	2	1	1	2	3	4	4	3	12	18	10	5	5	0	81
(1)	8.64	2.47	2.47	2.47	1.23	1.23	2.47	3.70	4.94	4.94	3.70	14.81	22.22	12.35	6.17	6.17	.00	100.00
(2)	.34	.10	.10	.10	.05	.05	.10	.14	.19	.19	.14	.58	.87	.48	.24	.24	.00	3.91

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS C

CLASS FREQUENCY (PERCENT) = 4.10

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	1.18	1.18	.00	1.18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.53
(2)	.05	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
4-7	2	2	2	6	0	0	1	0	1	3	4	4	4	1	1	1	0	32
(1)	2.35	2.35	2.35	7.06	.00	.00	1.18	.00	1.18	3.53	4.71	4.71	4.71	1.18	1.18	1.18	.00	37.65
(2)	.10	.10	.10	.29	.00	.00	.05	.00	.05	.14	.19	.19	.19	.05	.05	.05	.00	1.54
8-12	3	1	3	2	0	0	0	1	1	4	3	2	12	5	3	0	0	40
(1)	3.53	1.18	3.53	2.35	.00	.00	.00	1.18	1.18	4.71	3.53	2.35	14.12	5.88	3.53	.00	.00	47.06
(2)	.14	.05	.14	.10	.00	.00	.00	.05	.05	.19	.14	.10	.58	.24	.14	.00	.00	1.93
13-18	0	1	0	1	0	0	0	0	0	0	0	0	5	3	0	0	0	10
(1)	.00	1.18	.00	1.18	.00	.00	.00	.00	.00	.00	.00	.00	5.88	3.53	.00	.00	.00	11.76
(2)	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.24	.14	.00	.00	.00	.48
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	6	5	5	10	0	0	1	1	2	7	7	6	21	9	4	1	0	85
(1)	7.06	5.88	5.88	11.76	.00	.00	1.18	1.18	2.35	8.24	8.24	7.06	24.71	10.59	4.71	1.18	.00	100.00
(2)	.29	.24	.24	.48	.00	.00	.05	.05	.10	.34	.34	.29	1.01	.43	.19	.05	.00	4.10

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 35.44

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	2	1	2	1	2	0	3	3	6	4	5	4	4	4	5	0	48
(1)	.27	.27	.14	.27	.14	.27	.00	.41	.41	.82	.54	.68	.54	.54	.54	.68	.00	6.53
(2)	.10	.10	.05	.10	.05	.10	.00	.14	.14	.29	.19	.24	.19	.19	.19	.24	.00	2.31
4-7	11	9	7	3	2	0	12	18	8	13	26	45	46	25	28	11	0	264
(1)	1.50	1.22	.95	.41	.27	.00	1.63	2.45	1.09	1.77	3.54	6.12	6.26	3.40	3.81	1.50	.00	35.92
(2)	.53	.43	.34	.14	.10	.00	.58	.87	.39	.63	1.25	2.17	2.22	1.21	1.35	.53	.00	12.73
8-12	7	21	17	8	5	0	1	2	14	21	21	34	105	46	19	7	0	328
(1)	.95	2.86	2.31	1.09	.68	.00	.14	.27	1.90	2.86	2.86	4.63	14.29	6.26	2.59	.95	.00	44.63
(2)	.34	1.01	.82	.39	.24	.00	.05	.10	.68	1.01	1.01	1.64	5.06	2.22	.92	.34	.00	15.81
13-18	0	5	12	9	1	0	0	0	2	1	1	4	29	22	5	1	0	92
(1)	.00	.68	1.63	1.22	.14	.00	.00	.00	.27	.14	.14	.54	3.95	2.99	.68	.14	.00	12.52
(2)	.00	.24	.58	.43	.05	.00	.00	.00	.10	.05	.05	.19	1.40	1.06	.24	.05	.00	4.44
19-24	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.27	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41
(2)	.00	.00	.10	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	37	39	23	9	2	13	23	27	41	52	88	184	97	56	24	0	735
(1)	2.72	5.03	5.31	3.13	1.22	.27	1.77	3.13	3.67	5.58	7.07	11.97	25.03	13.20	7.62	3.27	.00	100.00
(2)	.96	1.78	1.88	1.11	.43	.10	.63	1.11	1.30	1.98	2.51	4.24	8.87	4.68	2.70	1.16	.00	35.44

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 29.65

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	1	1	1	3	2	2	5	6	5	7	10	10	5	4	0	63
(1)	.16	.00	.16	.16	.16	.49	.33	.33	.81	.98	.81	1.14	1.63	1.63	.81	.65	.00	10.24
(2)	.05	.00	.05	.05	.05	.14	.10	.10	.24	.29	.24	.34	.48	.48	.24	.19	.00	3.04
4-7	12	3	1	1	2	8	7	18	18	32	34	57	51	30	20	10	0	304
(1)	1.95	.49	.16	.16	.33	1.30	1.14	2.93	2.93	5.20	5.53	9.27	8.29	4.88	3.25	1.63	.00	49.43
(2)	.58	.14	.05	.05	.10	.39	.34	.87	.87	1.54	1.64	2.75	2.46	1.45	.96	.48	.00	14.66
8-12	9	12	1	5	1	1	0	2	20	28	18	30	37	11	14	7	0	196
(1)	1.46	1.95	.16	.81	.16	.16	.00	.33	3.25	4.55	2.93	4.88	6.02	1.79	2.28	1.14	.00	31.87
(2)	.43	.58	.05	.24	.05	.05	.00	.10	.96	1.35	.87	1.45	1.78	.53	.68	.34	.00	9.45
13-18	0	8	10	4	1	0	0	4	5	4	2	1	0	5	0	1	0	45
(1)	.00	1.30	1.63	.65	.16	.00	.00	.65	.81	.65	.33	.16	.00	.81	.00	.16	.00	7.32
(2)	.00	.39	.48	.19	.05	.00	.00	.19	.24	.19	.10	.05	.00	.24	.00	.05	.00	2.17
19-24	0	2	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	6
(1)	.00	.33	.49	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.98
(2)	.00	.10	.14	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.29
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.16
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05
ALL SPEEDS	22	25	16	11	5	12	9	26	49	70	59	95	98	57	39	22	0	615
(1)	3.58	4.07	2.60	1.79	.81	1.95	1.46	4.23	7.97	11.38	9.59	15.45	15.93	9.27	6.34	3.58	.00	100.00
(2)	1.06	1.21	.77	.53	.24	.58	.43	1.25	2.36	3.38	2.84	4.58	4.73	2.75	1.88	1.06	.00	29.65

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 6.41

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	3	0	0	1	0	1	2	1	4	0	3	1	3	0	0	0	19
(1)	.00	2.26	.00	.00	.75	.00	.75	1.50	.75	3.01	.00	2.26	.75	2.26	.00	.00	.00	14.29
(2)	.00	.14	.00	.00	.05	.00	.05	.10	.05	.19	.00	.14	.05	.14	.00	.00	.00	.92
4-7	1	0	0	1	0	2	0	2	2	3	18	15	3	4	0	1	0	52
(1)	.75	.00	.00	.75	.00	1.50	.00	1.50	1.50	2.26	13.53	11.28	2.26	3.01	.00	.75	.00	39.10
(2)	.05	.00	.00	.05	.00	.10	.00	.10	.10	.14	.87	.72	.14	.19	.00	.05	.00	2.51
8-12	0	0	1	4	0	0	0	3	2	7	11	1	0	0	4	1	0	34
(1)	.00	.00	.75	3.01	.00	.00	.00	2.26	1.50	5.26	8.27	.75	.00	.00	3.01	.75	.00	25.56
(2)	.00	.00	.05	.19	.00	.00	.00	.14	.10	.34	.53	.05	.00	.00	.19	.05	.00	1.64
13-18	0	1	6	8	0	0	0	2	5	2	2	0	0	0	0	0	0	26
(1)	.00	.75	4.51	6.02	.00	.00	.00	1.50	3.76	1.50	1.50	.00	.00	.00	.00	.00	.00	19.55
(2)	.00	.05	.29	.39	.00	.00	.00	.10	.24	.10	.10	.00	.00	.00	.00	.00	.00	1.25
19-24	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.75	.00	.00	.00	.00	.75	.00	.00	.00	.00	.00	.00	.00	.00	1.50
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.10
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	4	7	14	1	2	1	9	11	16	31	19	4	7	4	2	0	133
(1)	.75	3.01	5.26	10.53	.75	1.50	.75	6.77	8.27	12.03	23.31	14.29	3.01	5.26	3.01	1.50	.00	100.00
(2)	.05	.19	.34	.68	.05	.10	.05	.43	.53	.77	1.49	.92	.19	.34	.19	.10	.00	6.41

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA STABILITY CLASS G CLASS FREQUENCY (PERCENT) = 1.01

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	14.29	.00	4.76	.00	.00	.00	.00	.00	.00	19.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.05	.00	.00	.00	.00	.00	.00	.19
4-7	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	23.81	9.52	.00	.00	.00	.00	.00	33.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.10	.00	.00	.00	.00	.00	.34
8-12	0	3	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	6
(1)	.00	14.29	.00	.00	.00	.00	.00	.00	.00	9.52	4.76	.00	.00	.00	.00	.00	.00	28.57
(2)	.00	.14	.00	.00	.00	.00	.00	.00	.00	.10	.05	.00	.00	.00	.00	.00	.00	.29
13-18	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	19.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	19.05
(2)	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	7	0	0	0	0	0	0	3	2	7	2	0	0	0	0	0	21
(1)	.00	33.33	.00	.00	.00	.00	.00	.00	14.29	9.52	33.33	9.52	.00	.00	.00	.00	.00	100.00
(2)	.00	.34	.00	.00	.00	.00	.00	.00	.14	.10	.34	.10	.00	.00	.00	.00	.00	1.01

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS ALL

CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
C-3	8	10	3	4	4	5	4	8	12	19	17	21	19	20	12	11	0	177
(1)	.39	.48	.14	.19	.19	.24	.19	.39	.58	.92	.82	1.01	.92	.96	.58	.53	.00	8.53
(2)	.39	.48	.14	.19	.19	.24	.19	.39	.58	.92	.82	1.01	.92	.96	.58	.53	.00	8.53
4-7	44	25	21	18	7	15	23	42	30	68	101	136	121	78	71	42	0	842
(1)	2.12	1.21	1.01	.87	.34	.72	1.11	2.03	1.45	3.28	4.87	6.56	5.83	3.76	3.42	2.03	.00	40.60
(2)	2.12	1.21	1.01	.87	.34	.72	1.11	2.03	1.45	3.28	4.87	6.56	5.83	3.76	3.42	2.03	.00	40.60
8-12	33	49	25	27	6	7	9	15	45	78	62	84	188	97	57	33	0	815
(1)	1.59	2.36	1.21	1.30	.29	.34	.43	.72	2.17	3.76	2.99	4.05	9.06	4.68	2.75	1.59	.00	39.30
(2)	1.59	2.36	1.21	1.30	.29	.34	.43	.72	2.17	3.76	2.99	4.05	9.06	4.68	2.75	1.59	.00	39.30
13-18	5	19	28	25	2	0	1	6	13	12	6	9	47	39	5	3	0	220
(1)	.24	.92	1.35	1.21	.10	.00	.05	.29	.63	.58	.29	.43	2.27	1.88	.24	.14	.00	10.61
(2)	.24	.92	1.35	1.21	.10	.00	.05	.29	.63	.58	.29	.43	2.27	1.88	.24	.14	.00	10.61
19-24	0	2	5	5	0	0	0	0	4	0	0	0	1	0	0	0	0	17
(1)	.00	.10	.24	.24	.00	.00	.00	.00	.19	.00	.00	.00	.05	.00	.00	.00	.00	.82
(2)	.00	.10	.24	.24	.00	.00	.00	.00	.19	.00	.00	.00	.05	.00	.00	.00	.00	.82
GT 24	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
(1)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.10
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.10
ALL SPEEDS	91	105	82	80	19	27	37	71	104	177	186	250	376	235	145	89	0	2074
(1)	4.39	5.06	3.95	3.86	.92	1.30	1.78	3.42	5.01	8.53	8.97	12.05	18.13	11.33	6.99	4.29	.00	100.00
(2)	4.39	5.06	3.95	3.86	.92	1.30	1.78	3.42	5.01	8.53	8.97	12.05	18.13	11.33	6.99	4.29	.00	100.00

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 23.12

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	0	0	1	2	0	1	0	0	0	1	1	0	0	0	7
(1)	.00	.00	.20	.00	.00	.20	.40	.00	.20	.00	.00	.00	.20	.20	.00	.00	.00	1.40
(2)	.00	.00	.05	.00	.00	.05	.09	.00	.05	.00	.00	.00	.05	.05	.00	.00	.00	.32
4-7	17	14	13	5	1	9	9	8	18	17	7	9	16	11	14	16	0	184
(1)	3.39	2.79	2.59	1.00	.20	1.80	1.80	1.60	3.59	3.39	1.40	1.80	3.19	2.20	2.79	3.19	.00	36.73
(2)	.78	.65	.60	.23	.05	.42	.42	.37	.83	.78	.32	.42	.74	.51	.65	.74	.00	8.49
8-12	7	19	14	3	0	8	2	4	56	50	25	8	20	17	6	5	0	244
(1)	1.40	3.79	2.79	.60	.00	1.60	.40	.80	11.18	9.98	4.99	1.60	3.99	3.39	1.20	1.00	.00	48.70
(2)	.32	.88	.65	.14	.00	.37	.09	.18	2.58	2.31	1.15	.37	.92	.78	.28	.23	.00	11.26
13-18	2	9	1	1	0	0	0	1	18	20	5	0	2	2	0	3	0	64
(1)	.40	1.80	.20	.20	.00	.00	.00	.20	3.59	3.99	1.00	.00	.40	.40	.00	.60	.00	12.77
(2)	.09	.42	.05	.05	.00	.00	.00	.05	.83	.92	.23	.00	.09	.09	.00	.14	.00	2.95
19-24	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
(1)	.00	.20	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.40
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.09
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	26	43	29	9	1	18	13	13	93	88	37	17	39	41	20	24	0	501
(1)	5.19	8.58	5.79	1.80	.20	3.59	2.59	2.59	18.56	17.56	7.39	3.39	7.78	6.19	3.99	4.79	.00	100.00
(2)	1.20	1.98	1.34	.42	.05	.83	.60	.60	4.29	4.06	1.71	.78	1.80	1.43	.92	1.11	.00	23.12

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 4.89

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	1	0	0	1	0	0	0	2	0	0	0	0	1	0	6
(1)	.94	.00	.00	.94	.00	.00	.94	.00	.00	.00	1.89	.00	.00	.00	.00	.94	.00	5.66
(2)	.05	.00	.00	.05	.00	.00	.05	.00	.00	.00	.09	.00	.00	.00	.00	.05	.00	.28
4-7	4	5	2	2	0	2	0	3	2	4	2	10	3	2	3	1	0	45
(1)	3.77	4.72	1.89	1.89	.00	1.89	.00	2.83	1.89	3.77	1.89	9.43	2.83	1.89	2.83	.94	.00	42.45
(2)	.18	.23	.09	.09	.00	.09	.00	.14	.09	.18	.09	.46	.14	.09	.14	.05	.00	2.08
8-12	2	3	3	0	0	1	1	0	10	10	5	1	1	4	1	0	0	42
(1)	1.89	2.83	2.83	.00	.00	.94	.94	.00	9.43	9.43	4.72	.94	.94	3.77	.94	.00	.00	39.62
(2)	.09	.14	.14	.00	.00	.05	.05	.00	.46	.46	.23	.05	.05	.18	.05	.00	.00	1.94
13-18	1	3	0	0	0	0	0	0	4	2	1	0	1	0	0	1	0	13
(1)	.94	2.83	.00	.00	.00	.00	.00	.00	3.77	1.89	.94	.00	.94	.00	.00	.94	.00	12.26
(2)	.05	.14	.00	.00	.00	.00	.00	.00	.18	.09	.05	.00	.05	.00	.00	.05	.00	.60
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	8	11	5	3	0	3	2	3	16	16	10	11	5	6	4	3	0	106
(1)	7.55	10.38	4.72	2.83	.00	2.83	1.89	2.83	15.09	15.09	9.43	10.38	4.72	5.66	3.77	2.83	.00	100.00
(2)	.37	.51	.23	.14	.00	.14	.09	.14	.74	.74	.46	.51	.23	.28	.18	.14	.00	4.89

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS C

CLASS FREQUENCY (PERCENT) = 6.69

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	0	9
(1)	.69	.00	.00	.00	.00	.00	.00	.69	.69	.69	.00	.69	.69	.69	.69	.69	.00	6.21
(2)	.05	.00	.00	.00	.00	.00	.00	.05	.05	.05	.00	.05	.05	.05	.05	.05	.00	.42
4-7	1	2	3	2	2	3	7	6	5	7	3	1	6	2	5	3	0	58
(1)	.69	1.38	2.07	1.38	1.38	2.07	4.83	4.14	3.45	4.83	2.07	.69	4.14	1.38	3.45	2.07	.00	40.00
(2)	.05	.09	.14	.09	.09	.14	.32	.28	.23	.32	.14	.05	.28	.09	.23	.14	.00	2.68
8-12	1	5	7	4	2	2	4	1	14	15	3	0	6	0	0	0	0	64
(1)	.69	3.45	4.83	2.76	1.38	1.38	2.76	.69	9.66	10.34	2.07	.00	4.14	.00	.00	.00	.00	44.14
(2)	.05	.23	.32	.18	.09	.09	.18	.05	.65	.69	.14	.00	.28	.00	.00	.00	.00	2.95
13-18	0	3	1	0	0	0	0	0	4	4	1	0	0	0	0	0	0	13
(1)	.00	2.07	.69	.00	.00	.00	.00	.00	2.76	2.76	.69	.00	.00	.00	.00	.00	.00	8.97
(2)	.00	.14	.05	.00	.00	.00	.00	.00	.18	.18	.05	.00	.00	.00	.00	.00	.00	.60
19-24	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.69	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	11	11	6	4	5	11	8	24	27	7	2	13	3	6	4	0	145
(1)	2.07	7.59	7.59	4.14	2.76	3.45	7.59	5.52	16.55	18.62	4.83	1.38	8.97	2.07	4.14	2.76	.00	100.00
(2)	.14	.51	.51	.28	.18	.23	.51	.37	1.11	1.25	.32	.09	.60	.14	.28	.18	.00	6.69

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 30.78

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	1	3	2	1	2	0	4	3	9	3	3	6	10	10	5	0	64
(1)	.30	.15	.45	.30	.15	.30	.00	.60	.45	1.35	.45	.45	.90	1.50	1.50	.75	.00	9.60
(2)	.09	.05	.14	.09	.05	.09	.00	.18	.14	.42	.14	.14	.28	.46	.46	.23	.00	2.95
4-7	17	10	11	5	10	19	17	14	42	57	20	24	22	12	10	15	0	305
(1)	2.55	1.50	1.65	.75	1.50	2.85	2.55	2.10	6.30	8.55	3.00	3.60	3.30	1.80	1.50	2.25	.00	45.73
(2)	.78	.46	.51	.23	.46	.88	.78	.65	1.94	2.63	.92	1.11	1.02	.55	.46	.69	.00	14.07
8-12	4	10	1	2	3	1	1	4	69	106	24	9	8	8	3	0	0	253
(1)	.60	1.50	.15	.30	.45	.15	.15	.60	10.34	15.89	3.60	1.35	1.20	1.20	.45	.00	.00	37.93
(2)	.18	.46	.05	.09	.14	.05	.05	.18	3.18	4.89	1.11	.42	.37	.37	.14	.00	.00	11.68
13-18	0	1	1	0	0	0	0	1	12	21	4	0	0	3	0	2	0	45
(1)	.00	.15	.15	.00	.00	.00	.00	.15	1.80	3.15	.60	.00	.00	.45	.00	.30	.00	6.75
(2)	.00	.05	.05	.00	.00	.00	.00	.05	.55	.97	.18	.00	.00	.14	.00	.09	.00	2.08
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	23	22	16	9	14	22	18	23	126	193	51	36	36	33	23	22	0	667
(1)	3.45	3.30	2.40	1.35	2.10	3.30	2.70	3.45	18.89	28.94	7.65	5.40	5.40	4.95	3.45	3.30	.00	100.00
(2)	1.06	1.02	.74	.42	.65	1.02	.83	1.06	5.81	8.91	2.35	1.66	1.66	1.52	1.06	1.02	.00	30.78

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 23.40

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	3	0	2	1	0	8	7	6	5	5	5	10	7	12	4	0	78
(1)	.59	.59	.00	.39	.20	.00	1.58	1.38	1.18	.99	.99	.99	1.97	1.38	2.37	.79	.00	15.38
(2)	.14	.14	.00	.09	.05	.00	.37	.32	.28	.23	.23	.23	.46	.32	.55	.18	.00	3.60
4-7	8	3	2	9	2	4	4	14	32	44	30	42	32	15	8	12	0	261
(1)	1.58	.59	.39	1.78	.39	.79	.79	2.76	6.31	8.68	5.92	8.28	6.31	2.96	1.58	2.37	.00	51.48
(2)	.37	.14	.09	.42	.09	.18	.18	.65	1.48	2.03	1.38	1.94	1.48	.69	.37	.55	.00	12.04
8-12	3	0	0	0	0	1	0	4	10	56	21	17	21	16	1	0	0	150
(1)	.59	.00	.00	.00	.00	.20	.00	.79	1.97	11.05	4.14	3.35	4.14	3.16	.20	.00	.00	29.59
(2)	.14	.00	.00	.00	.00	.05	.00	.18	.46	2.58	.97	.78	.97	.74	.05	.00	.00	6.92
13-18	0	0	0	0	0	0	0	0	2	11	4	0	0	1	0	0	0	18
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.39	2.17	.79	.00	.00	.20	.00	.00	.00	3.55
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.09	.51	.18	.00	.00	.05	.00	.00	.00	.83
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	14	6	2	11	3	5	12	25	50	116	60	64	63	39	21	16	0	507
(1)	2.76	1.18	.39	2.17	.59	.99	2.37	4.93	9.86	22.88	11.83	12.62	12.43	7.69	4.14	3.16	.00	100.00
(2)	.65	.28	.09	.51	.14	.23	.55	1.15	2.31	5.35	2.77	2.95	2.91	1.80	.97	.74	.00	23.40

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 8.68

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	2	2	1	1	7	3	6	11	4	2	3	0	42
(1)	.00	.00	.00	.00	.00	1.06	1.06	.53	.53	3.72	1.60	3.19	5.85	2.13	1.06	1.60	.00	22.34
(2)	.00	.00	.00	.00	.00	.09	.09	.05	.05	.32	.14	.28	.51	.18	.09	.14	.00	1.94
4-7	2	0	1	1	2	1	0	4	4	11	30	24	13	2	2	2	0	99
(1)	1.06	.00	.53	.53	1.06	.53	.00	2.13	2.13	5.85	15.96	12.77	6.91	1.06	1.06	1.06	.00	52.66
(2)	.09	.00	.05	.05	.09	.05	.00	.18	.18	.51	1.38	1.11	.60	.09	.09	.09	.00	4.57
8-12	0	0	0	0	0	0	0	0	1	14	22	4	1	0	0	0	0	42
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.53	7.45	11.70	2.13	.53	.00	.00	.00	.00	22.34
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.65	1.02	.18	.05	.00	.00	.00	.00	1.94
13-18	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.13	.00	.00	.00	.00	.00	.00	2.13
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00	.00	.18
19-24	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53	.00	.00	.00	.00	.00	.00	.53
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	0	1	1	2	3	2	5	6	32	60	34	25	6	4	5	0	188
(1)	1.06	.00	.53	.53	1.06	1.60	1.06	2.66	3.19	17.02	31.91	18.07	13.30	3.19	2.13	2.66	.00	100.00
(2)	.09	.00	.05	.05	.09	.14	.09	.23	.28	1.48	2.77	1.57	1.15	.28	.18	.23	.00	8.68

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = 2.45

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	0	0	0	0	0	1	0	1	0	2	1	1	0	0	7
(1)	1.89	.00	.00	.00	.00	.00	.00	.00	1.89	.00	1.89	.00	3.77	1.89	1.89	.00	.00	13.21
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.09	.05	.05	.00	.00	.32
4-7	1	1	0	0	1	0	0	0	1	3	13	7	1	0	0	0	0	28
(1)	1.89	1.89	.00	.00	1.89	.00	.00	.00	1.89	5.66	24.53	13.21	1.89	.00	.00	.00	.00	52.83
(2)	.05	.05	.00	.00	.05	.00	.00	.00	.05	.14	.60	.32	.05	.00	.00	.00	.00	1.29
8-12	0	0	0	0	0	0	0	0	0	1	15	0	0	0	0	0	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.89	28.30	.00	.00	.00	.00	.00	.00	30.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.69	.00	.00	.00	.00	.00	.00	.74
13-18	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.77	.00	.00	.00	.00	.00	.00	3.77
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	2	1	0	0	1	0	0	0	2	4	31	7	3	1	1	0	0	53
(1)	3.77	1.89	.00	.00	1.89	.00	.00	.00	3.77	7.55	58.49	13.21	5.66	1.89	1.89	.00	.00	100.00
(2)	.09	.05	.00	.00	.05	.00	.00	.00	.09	.18	1.43	.32	.14	.05	.05	.00	.00	2.45

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-1 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS ALL

CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	8	4	4	5	2	5	13	13	13	22	14	15	31	24	26	14	0	213
(1)	.37	.18	.18	.23	.09	.23	.60	.60	.60	1.02	.65	.69	1.43	1.11	1.20	.65	.00	9.83
(2)	.37	.18	.18	.23	.09	.23	.60	.60	.60	1.02	.65	.69	1.43	1.11	1.20	.65	.00	9.83
4-7	50	35	32	24	18	38	37	49	104	143	105	117	93	44	42	49	0	980
(1)	2.31	1.62	1.48	1.11	.83	1.75	1.71	2.26	4.80	6.60	4.85	5.40	4.29	2.03	1.94	2.26	.00	45.22
(2)	2.31	1.62	1.48	1.11	.83	1.75	1.71	2.26	4.80	6.60	4.85	5.40	4.29	2.03	1.94	2.26	.00	45.22
8-12	17	37	25	9	5	13	8	13	160	252	115	39	57	45	11	5	0	811
(1)	.78	1.71	1.15	.42	.23	.60	.37	.60	7.38	11.63	5.31	1.80	2.63	2.08	.51	.23	.00	37.43
(2)	.78	1.71	1.15	.42	.23	.60	.37	.60	7.38	11.63	5.31	1.80	2.63	2.08	.51	.23	.00	37.43
13-18	3	16	3	1	0	0	0	2	40	58	21	0	3	6	0	6	0	159
(1)	.14	.74	.14	.05	.00	.00	.00	.09	1.85	2.68	.97	.00	.14	.28	.00	.28	.00	7.34
(2)	.14	.74	.14	.05	.00	.00	.00	.09	1.85	2.68	.97	.00	.14	.28	.00	.28	.00	7.34
19-24	0	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	4
(1)	.00	.09	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.18
(2)	.00	.09	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.18
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	78	94	64	39	25	56	58	77	317	476	256	171	184	119	79	74	0	2167
(1)	3.60	4.34	2.95	1.80	1.15	2.58	2.68	3.55	14.63	21.97	11.81	7.89	8.49	5.49	3.65	3.41	.00	100.00
(2)	3.60	4.34	2.95	1.80	1.15	2.58	2.68	3.55	14.63	21.97	11.81	7.89	8.49	5.49	3.65	3.41	.00	100.00

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2

DISTRIBUTION OF WIND DIRECTIONS
AND SPEEDS FOR THE 220 FT. LEVEL
OF THE 220 FT. TOWER

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 18.74

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
C-3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.25	.00	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50
(2)	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
4-7	7	5	0	1	1	0	0	0	0	0	4	2	1	3	1	5	0	30
(1)	1.76	1.26	.00	.25	.25	.00	.00	.00	.00	.00	1.01	.50	.25	.76	.25	1.26	.00	7.56
(2)	.33	.24	.00	.05	.05	.00	.00	.00	.00	.00	.19	.09	.05	.14	.05	.24	.00	1.42
8-12	9	1	10	6	6	2	1	1	1	7	9	7	8	9	8	5	0	90
(1)	2.27	.25	2.52	1.51	1.51	.50	.25	.25	.25	1.76	2.27	1.76	2.02	2.27	2.02	1.26	.00	22.67
(2)	.42	.05	.47	.28	.28	.09	.05	.05	.05	.33	.42	.33	.38	.42	.38	.24	.00	4.25
13-18	6	5	2	3	1	2	0	2	1	14	13	14	5	12	13	11	0	104
(1)	1.51	1.26	.50	.76	.25	.50	.00	.50	.25	3.53	3.27	3.53	1.26	3.02	3.27	2.77	.00	26.20
(2)	.28	.24	.09	.14	.05	.09	.00	.09	.05	.66	.61	.66	.24	.57	.61	.52	.00	4.91
19-24	4	4	1	1	0	0	13	1	3	5	4	4	13	18	8	11	0	90
(1)	1.01	1.01	.25	.25	.00	.00	3.27	.25	.76	1.26	1.01	1.01	3.27	4.53	2.02	2.77	.00	22.67
(2)	.19	.19	.05	.05	.00	.00	.61	.05	.14	.24	.19	.19	.61	.85	.38	.52	.00	4.25
GT 24	6	0	0	6	0	0	4	2	4	1	0	4	11	22	6	14	0	80
(1)	1.51	.00	.00	1.51	.00	.00	1.01	.50	1.01	.25	.00	1.01	2.77	5.54	1.51	3.53	.00	20.15
(2)	.28	.00	.00	.28	.00	.00	.19	.09	.19	.05	.00	.19	.52	1.04	.28	.66	.00	3.78
ALL SPEEDS	34	15	14	17	8	4	18	6	9	27	30	31	38	64	36	46	0	397
(1)	8.56	3.78	3.53	4.28	2.02	1.01	4.53	1.51	2.27	6.80	7.56	7.81	9.57	16.12	9.07	11.59	.00	100.00
(2)	1.61	.71	.66	.80	.38	.19	.85	.28	.42	1.27	1.42	1.46	1.79	3.02	1.70	2.17	.00	18.74

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 3.82

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	1	1	1	0	0	0	0	0	0	0	0	0	0	1	2	1	0	7
(1)	1.23	1.23	1.23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.23	2.47	1.23	.00	8.64
(2)	.05	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.05	.00	.33
8-12	0	0	0	0	1	1	0	0	0	0	2	4	1	2	1	3	0	15
(1)	.00	.00	.00	.00	1.23	1.23	.00	.00	.00	.00	2.47	4.94	1.23	2.47	1.23	3.70	.00	18.52
(2)	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.09	.19	.05	.09	.05	.14	.00	.71
13-18	0	1	0	1	0	1	2	2	2	2	3	5	4	1	0	1	0	25
(1)	.00	1.23	.00	1.23	.00	1.23	2.47	2.47	2.47	2.47	3.70	6.17	4.94	1.23	.00	1.23	.00	30.86
(2)	.00	.05	.00	.05	.00	.05	.09	.09	.09	.09	.14	.24	.19	.05	.00	.05	.00	1.18
19-24	0	0	0	0	0	0	1	0	1	0	2	3	4	4	0	2	0	17
(1)	.00	.00	.00	.00	.00	.00	1.23	.00	1.23	.00	2.47	3.70	4.94	4.94	.00	2.47	.00	20.99
(2)	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.09	.14	.19	.19	.00	.09	.00	.80
GT 24	0	0	0	1	0	0	0	0	0	0	0	0	5	2	4	5	0	17
(1)	.00	.00	.00	1.23	.00	.00	.00	.00	.00	.00	.00	.00	6.17	2.47	4.94	6.17	.00	20.99
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.24	.09	.19	.24	.00	.80
ALL SPEEDS	1	2	1	2	1	2	3	2	3	2	7	12	14	10	7	12	0	81
(1)	1.23	2.47	1.23	2.47	1.23	2.47	3.70	2.47	3.70	2.47	8.64	14.81	17.28	12.35	8.64	14.81	.00	100.00
(2)	.05	.09	.05	.09	.05	.09	.14	.09	.14	.09	.33	.57	.66	.47	.33	.57	.00	3.82

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS C

CLASS FREQUENCY (PERCENT) = 3.97

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	1	0	4	2	1	0	0	0	0	0	0	0	0	1	0	0	0	9
(1)	1.19	.00	4.76	2.38	1.19	.00	.00	.00	.00	.00	.00	.00	.00	1.19	.00	.00	.00	10.71
(2)	.05	.00	.19	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.42
8-12	0	1	0	0	3	1	0	0	1	0	1	1	4	1	1	0	0	14
(1)	.00	1.19	.00	.00	3.57	1.19	.00	.00	1.19	.00	1.19	1.19	4.76	1.19	1.19	.00	.00	16.67
(2)	.00	.05	.00	.00	.14	.05	.00	.00	.05	.00	.05	.05	.19	.05	.05	.00	.00	.66
13-18	0	3	0	1	0	0	1	0	3	7	1	5	3	2	0	1	0	27
(1)	.00	3.57	.00	1.19	.00	.00	1.19	.00	3.57	8.33	1.19	5.95	3.57	2.38	.00	1.19	.00	32.14
(2)	.00	.14	.00	.05	.00	.00	.05	.00	.14	.33	.05	.24	.14	.09	.00	.05	.00	1.27
19-24	3	1	3	1	0	0	0	0	0	0	1	2	5	3	1	1	0	21
(1)	3.57	1.19	3.57	1.19	.00	.00	.00	.00	.00	.00	1.19	2.38	5.95	3.57	1.19	1.19	.00	25.00
(2)	.14	.05	.14	.05	.00	.00	.00	.00	.00	.00	.05	.09	.24	.14	.05	.05	.00	.99
GT 24	1	0	0	0	0	0	0	0	0	0	0	0	7	4	0	1	0	13
(1)	1.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.33	4.76	.00	1.19	.00	15.48
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33	.19	.00	.05	.00	.61
ALL SPEEDS	5	5	7	4	4	1	1	0	4	7	3	8	19	11	2	3	0	84
(1)	5.95	5.95	8.33	4.76	4.76	1.19	1.19	.00	4.76	8.33	3.57	9.52	22.62	13.10	2.38	3.57	.00	100.00
(2)	.24	.24	.33	.19	.19	.05	.05	.00	.19	.33	.14	.38	.90	.52	.09	.14	.00	3.97

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 34.99

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	1	1	0	0	0	0	0	1	1	0	2	0	0	0	0	0	7
(1)	.13	.13	.13	.00	.00	.00	.00	.00	.13	.13	.00	.27	.00	.00	.00	.00	.00	.94
(2)	.05	.05	.05	.00	.00	.00	.00	.00	.05	.05	.00	.09	.00	.00	.00	.00	.00	.33
4-7	1	4	7	4	3	2	2	2	2	3	4	6	6	0	3	3	0	52
(1)	.13	.54	.94	.54	.40	.27	.27	.27	.27	.40	.54	.81	.81	.00	.40	.40	.00	7.02
(2)	.05	.19	.33	.19	.14	.09	.09	.09	.09	.14	.19	.28	.28	.00	.14	.14	.00	2.46
8-12	6	8	3	3	5	3	7	4	3	12	13	9	8	12	6	2	0	104
(1)	.81	1.08	.40	.40	.67	.40	.94	.54	.40	1.62	1.75	1.21	1.08	1.62	.81	.27	.00	14.04
(2)	.28	.38	.14	.14	.24	.14	.33	.19	.14	.57	.61	.42	.38	.57	.28	.09	.00	4.91
13-18	8	13	5	2	5	2	9	5	9	21	15	40	38	25	21	10	0	228
(1)	1.08	1.75	.67	.27	.67	.27	1.21	.67	1.21	2.83	2.02	5.40	5.13	3.37	2.83	1.35	.00	30.7
(2)	.38	.61	.24	.09	.24	.09	.42	.24	.42	.99	.71	1.89	1.79	1.18	.99	.47	.00	10.76
19-24	10	8	8	9	2	0	0	1	4	8	11	24	66	25	9	5	0	190
(1)	1.35	1.08	1.08	1.21	.27	.00	.00	.13	.54	1.08	1.48	3.24	8.91	3.37	1.21	.67	.00	25.64
(2)	.47	.38	.38	.42	.09	.00	.00	.05	.19	.38	.52	1.13	3.12	1.18	.42	.24	.00	8.97
GT 24	3	4	5	9	5	0	0	0	0	3	2	5	45	60	17	2	0	160
(1)	.40	.54	.67	1.21	.67	.00	.00	.00	.00	.40	.27	.67	6.07	8.10	2.29	.27	.00	21.59
(2)	.14	.19	.24	.42	.24	.00	.00	.00	.00	.14	.09	.24	2.12	2.83	.80	.09	.00	7.55
ALL SPEEDS	29	38	29	27	20	7	18	12	19	48	45	86	163	122	56	22	0	741
(1)	3.91	5.13	3.91	3.64	2.70	.94	2.43	1.62	2.56	6.48	6.07	11.61	22.00	16.46	7.56	2.97	.00	100.00
(2)	1.37	1.79	1.37	1.27	.94	.33	.85	.57	.90	2.27	2.12	4.06	7.70	5.76	2.64	1.04	.00	34.99

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 30.78

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	4
(1)	.15	.00	.00	.15	.00	.00	.00	.15	.00	.00	.00	.00	.00	.15	.00	.00	.00	.61
(2)	.05	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	.00	.00	.00	.19
4-7	1	0	1	3	5	3	1	1	2	1	2	1	2	5	5	4	0	37
(1)	.15	.00	.15	.46	.77	.46	.15	.15	.31	.15	.31	.15	.31	.77	.77	.61	.00	5.67
(2)	.05	.00	.05	.14	.24	.14	.05	.05	.09	.05	.09	.05	.09	.24	.24	.19	.00	1.75
8-12	4	2	3	0	6	2	7	3	2	7	17	10	15	14	13	5	0	110
(1)	.61	.31	.46	.00	.92	.31	1.07	.46	.31	1.07	2.61	1.53	2.30	2.15	1.99	.77	.00	16.87
(2)	.19	.09	.14	.00	.28	.09	.33	.14	.09	.33	.80	.47	.71	.66	.61	.24	.00	5.19
13-18	9	11	8	5	0	6	9	9	7	24	21	35	51	23	17	6	0	241
(1)	1.38	1.69	1.23	.77	.00	.92	1.38	1.38	1.07	3.68	3.22	5.37	7.82	3.53	2.61	.92	.00	36.96
(2)	.42	.52	.38	.24	.00	.28	.42	.42	.33	1.13	.99	1.65	2.41	1.09	.80	.28	.00	11.38
19-24	3	7	4	5	0	1	2	3	5	23	26	11	31	13	12	11	0	157
(1)	.46	1.07	.61	.77	.00	.15	.31	.46	.77	3.53	3.99	1.69	4.75	1.99	1.84	1.69	.00	24.08
(2)	.14	.33	.19	.24	.00	.05	.09	.14	.24	1.09	1.23	.52	1.46	.61	.57	.52	.00	7.41
GT 24	10	14	8	11	4	0	0	7	4	5	5	2	1	15	12	5	0	103
(1)	1.53	2.15	1.23	1.69	.61	.00	.00	1.07	.61	.77	.77	.31	.15	2.30	1.84	.77	.00	15.80
(2)	.47	.66	.38	.52	.19	.00	.00	.33	.19	.24	.24	.09	.05	.71	.57	.24	.00	4.86
ALL SPEEDS	28	34	24	25	15	12	19	24	20	60	71	59	100	71	59	31	0	652
(1)	4.29	5.21	3.68	3.83	2.30	1.84	2.91	3.68	3.07	9.20	10.89	9.05	15.34	10.89	9.05	4.75	.00	100.00
(2)	1.32	1.61	1.13	1.18	.71	.57	.90	1.13	.94	2.83	3.35	2.79	4.72	3.35	2.79	1.46	.00	30.78

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 6.70

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.70	.00	.00	.00	.70	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.41
(2)	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
4-7	2	0	1	0	1	1	0	1	1	1	2	0	1	0	0	0	0	11
(1)	1.41	.00	.70	.00	.70	.70	.00	.70	.70	.70	1.41	.00	.70	.00	.00	.00	.00	7.75
(2)	.09	.00	.05	.00	.05	.05	.00	.05	.05	.05	.09	.00	.05	.00	.00	.00	.00	.52
8-12	0	0	0	0	0	1	1	0	4	0	4	2	2	5	1	0	0	20
(1)	.00	.00	.00	.00	.00	.70	.70	.00	2.82	.00	2.82	1.41	1.41	3.52	.70	.00	.00	14.08
(2)	.00	.00	.00	.00	.00	.05	.05	.00	.19	.00	.19	.09	.09	.24	.05	.00	.00	.94
13-18	0	1	0	1	0	0	1	2	1	0	12	7	8	7	0	2	0	42
(1)	.00	.70	.00	.70	.00	.00	.70	1.41	.70	.00	8.45	4.93	5.63	4.93	.00	1.41	.00	29.58
(2)	.00	.05	.00	.05	.00	.00	.05	.09	.05	.00	.57	.33	.38	.33	.00	.09	.00	1.98
19-24	0	1	1	9	0	0	3	1	2	1	8	4	0	0	0	0	0	30
(1)	.00	.70	.70	6.34	.00	.00	2.11	.70	1.41	.70	5.63	2.82	.00	.00	.00	.00	.00	21.13
(2)	.00	.05	.05	.42	.00	.00	.14	.05	.09	.05	.38	.19	.00	.00	.00	.00	.00	1.42
GT 24	0	2	5	10	0	0	0	6	2	2	3	1	0	0	6	0	0	37
(1)	.00	1.41	3.52	7.04	.00	.00	.00	4.23	1.41	1.41	2.11	.70	.00	.00	4.23	.00	.00	26.06
(2)	.00	.09	.24	.47	.00	.00	.00	.28	.09	.09	.14	.05	.00	.00	.28	.00	.00	1.75
ALL SPEEDS	2	4	8	20	1	2	6	10	10	4	29	14	11	12	7	2	0	142
(1)	1.41	2.82	5.63	14.08	.70	1.41	4.23	7.04	7.04	2.82	20.42	9.86	7.75	8.45	4.93	1.41	.00	100.00
(2)	.09	.19	.38	.94	.05	.09	.28	.47	.47	.19	1.37	.66	.52	.57	.33	.09	.00	6.70

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = .99

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.76	.00	.00	.00	.00	.00	.00	4.76
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
4-7	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	4.76	.00	.00	4.76	.00	4.76	.00	.00	.00	.00	14.29
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.00	.05	.00	.00	.00	.00	.14
8-12	0	0	0	0	0	0	0	1	1	0	0	0	1	3	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	4.76	4.76	.00	.00	.00	4.76	14.29	.00	.00	.00	28.57
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.05	.14	.00	.00	.00	.28
13-18	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	4.76	4.76	9.52	.00	.00	.00	.00	.00	.00	19.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.09	.00	.00	.00	.00	.00	.00	.19
19-24	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	4.76	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.76
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
GT 24	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
(1)	4.76	23.81	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	28.57
(2)	.05	.24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28
ALL SPEEDS	1	6	0	0	0	0	0	2	2	1	4	0	2	3	0	0	0	21
(1)	4.76	28.57	.00	.00	.00	.00	.00	9.52	9.52	4.76	19.05	.00	9.52	14.29	.00	.00	.00	100.00
(2)	.05	.28	.00	.00	.00	.00	.00	.09	.09	.05	.19	.00	.09	.14	.00	.00	.00	.99

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM JAN94-MAR94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS ALL

CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
C-3	3	1	3	1	0	0	1	1	1	1	1	2	0	1	0	0	0	16
(1)	.14	.05	.14	.05	.00	.00	.05	.05	.05	.05	.05	.09	.00	.05	.00	.00	.00	.76
(2)	.14	.05	.14	.05	.00	.00	.05	.05	.05	.05	.05	.09	.00	.05	.00	.00	.00	.76
4-7	13	10	14	10	11	6	3	5	5	5	13	9	11	10	11	13	0	149
(1)	.61	.47	.66	.47	.52	.28	.14	.24	.24	.24	.61	.42	.52	.47	.52	.61	.00	7.03
(2)	.61	.47	.66	.47	.52	.28	.14	.24	.24	.24	.61	.42	.52	.47	.52	.61	.00	7.03
8-12	19	12	16	9	21	10	16	9	12	26	46	33	39	46	30	15	0	359
(1)	.90	.57	.76	.42	.99	.47	.76	.42	.57	1.23	2.17	1.56	1.84	2.17	1.42	.71	.00	16.95
(2)	.90	.57	.76	.42	.99	.47	.76	.42	.57	1.23	2.17	1.56	1.84	2.17	1.42	.71	.00	16.95
13-18	23	34	15	13	6	11	22	20	24	69	67	106	109	70	51	31	0	671
(1)	1.09	1.61	.71	.61	.28	.52	1.04	.94	1.13	3.26	3.16	5.00	5.15	3.31	2.41	1.46	.00	31.68
(2)	1.09	1.61	.71	.61	.28	.52	1.04	.94	1.13	3.26	3.16	5.00	5.15	3.31	2.41	1.46	.00	31.68
19-24	20	22	17	25	2	1	19	6	15	37	52	48	119	63	30	30	0	506
(1)	.94	1.04	.80	1.18	.09	.05	.90	.28	.71	1.75	2.46	2.27	5.62	2.97	1.42	1.42	.00	23.89
(2)	.94	1.04	.80	1.18	.09	.05	.90	.28	.71	1.75	2.46	2.27	5.62	2.97	1.42	1.42	.00	23.89
GT 24	21	25	18	37	9	0	4	15	10	11	10	12	69	103	45	27	0	416
(1)	.99	1.18	.85	1.75	.42	.00	.19	.71	.47	.52	.47	.57	3.26	4.86	2.12	1.27	.00	19.64
(2)	.99	1.18	.85	1.75	.42	.00	.19	.71	.47	.52	.47	.57	3.26	4.86	2.12	1.27	.00	19.64
ALL SPEEDS	100	104	83	95	49	28	65	56	67	149	189	210	347	293	167	116	0	2118
(1)	4.72	4.91	3.92	4.49	2.31	1.32	3.07	2.64	3.16	7.03	8.92	9.92	16.38	13.83	7.88	5.48	.00	100.00
(2)	4.72	4.91	3.92	4.49	2.31	1.32	3.07	2.64	3.16	7.03	8.92	9.92	16.38	13.83	7.88	5.48	.00	100.00

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 22.84

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.20
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05
4-7	5	4	1	1	4	0	1	0	0	1	2	3	1	1	0	0	0	24
(1)	1.02	.81	.20	.20	.81	.00	.20	.00	.00	.20	.41	.61	.20	.20	.00	.00	.00	4.88
(2)	.23	.19	.05	.05	.19	.00	.05	.00	.00	.05	.09	.14	.05	.05	.00	.00	.00	1.11
8-12	4	9	3	2	6	7	6	3	10	10	5	6	5	10	4	1	0	91
(1)	.81	1.83	.61	.41	1.22	1.42	1.22	.61	2.03	2.03	1.02	1.22	1.02	2.03	.81	.20	.00	18.50
(2)	.19	.42	.14	.09	.28	.32	.28	.14	.46	.46	.23	.28	.23	.46	.19	.05	.00	4.22
13-18	3	20	2	1	5	13	6	2	31	43	19	8	19	7	5	3	0	187
(1)	.61	4.07	.41	.20	1.02	2.64	1.22	.41	6.30	8.74	3.86	1.63	3.86	1.42	1.02	.61	.00	38.01
(2)	.14	.93	.09	.05	.23	.60	.28	.09	1.44	2.00	.88	.37	.88	.32	.23	.14	.00	8.68
19-24	4	12	7	3	2	4	0	2	18	39	6	5	4	8	6	8	0	128
(1)	.81	2.44	1.42	.61	.41	.81	.00	.41	3.66	7.93	1.22	1.02	.81	1.63	1.22	1.63	.00	26.02
(2)	.19	.56	.32	.14	.09	.19	.00	.09	.84	1.81	.28	.23	.19	.37	.28	.37	.00	5.94
GT 24	11	3	0	0	0	0	0	2	8	5	5	0	7	12	2	6	0	61
(1)	2.24	.61	.00	.00	.00	.00	.00	.41	1.63	1.02	1.02	.00	1.42	2.44	.41	1.22	.00	12.40
(2)	.51	.14	.00	.00	.00	.00	.00	.09	.37	.23	.23	.00	.32	.56	.09	.28	.00	2.83
ALL SPEEDS	27	48	13	7	17	24	13	9	67	99	37	22	35	38	17	18	0	492
(1)	5.49	9.76	2.64	1.42	3.46	4.88	2.64	1.83	13.62	20.12	7.52	4.47	7.32	7.72	3.46	3.66	.00	100.00
(2)	1.25	2.23	.60	.32	.79	1.11	.60	.42	3.11	4.60	1.72	1.02	1.67	1.76	.79	.84	.00	22.84

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 4.87

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	3	1	3	0	0	0	0	0	0	1	1	1	2	1	2	0	0	15
(1)	2.86	.95	2.86	.00	.00	.00	.00	.00	.00	.95	.95	.95	1.90	.95	1.90	.00	.00	14.29
(2)	.14	.05	.14	.00	.00	.00	.00	.00	.00	.05	.05	.05	.09	.05	.09	.00	.00	.70
8-12	2	1	0	0	0	0	0	2	0	1	2	4	2	1	0	0	0	15
(1)	1.90	.95	.00	.00	.00	.00	.00	1.90	.00	.95	1.90	3.81	1.90	.95	.00	.00	.00	14.29
(2)	.09	.05	.00	.00	.00	.00	.00	.09	.00	.05	.09	.19	.09	.05	.00	.00	.00	.70
13-18	1	0	2	1	2	2	0	2	8	8	3	4	3	0	1	1	0	38
(1)	.95	.00	1.90	.95	1.90	1.90	.00	1.90	7.62	7.62	2.86	3.81	2.86	.00	.95	.95	.00	36.19
(2)	.05	.00	.09	.05	.09	.09	.00	.09	.37	.37	.14	.19	.14	.00	.05	.05	.00	1.76
19-24	1	3	1	0	0	0	0	0	3	7	0	1	1	3	0	0	0	20
(1)	.95	2.86	.95	.00	.00	.00	.00	.00	2.86	6.67	.00	.95	.95	2.86	.00	.00	.00	19.05
(2)	.05	.14	.05	.00	.00	.00	.00	.00	.14	.32	.00	.05	.05	.14	.00	.00	.00	.93
GT 24	4	2	0	0	1	0	0	0	0	4	0	0	1	2	0	3	0	17
(1)	3.81	1.90	.00	.00	.95	.00	.00	.00	.00	3.81	.00	.00	.95	1.90	.00	2.86	.00	16.19
(2)	.19	.09	.00	.00	.05	.00	.00	.00	.00	.19	.00	.00	.05	.09	.00	.14	.00	.79
ALL SPEEDS	11	7	6	1	3	2	0	4	11	21	6	10	9	7	3	4	0	105
(1)	10.48	6.67	5.71	.95	2.86	1.90	.00	3.81	10.48	20.00	5.71	9.52	8.57	6.67	2.86	3.81	.00	100.00
(2)	.51	.32	.28	.05	.14	.09	.00	.19	.51	.97	.28	.46	.42	.32	.14	.19	.00	4.87

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS C

CLASS FREQUENCY (PERCENT) = 6.73

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	.00	.69
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05
4-7	1	0	6	1	0	0	0	2	1	0	1	0	0	1	1	2	0	16
(1)	.69	.00	4.14	.69	.00	.00	.00	1.38	.69	.00	.69	.00	.00	.69	.69	1.38	.00	11.03
(2)	.05	.00	.28	.05	.00	.00	.00	.09	.05	.00	.05	.00	.00	.05	.05	.09	.00	.74
8-12	0	1	1	5	2	2	3	3	2	6	1	1	2	2	2	3	0	36
(1)	.00	.69	.69	3.45	1.38	1.38	2.07	2.07	1.38	4.14	.69	.69	1.38	1.38	1.38	2.07	.00	24.83
(2)	.00	.05	.05	.23	.09	.09	.14	.14	.09	.28	.05	.05	.09	.09	.09	.14	.00	1.67
13-18	0	3	2	3	2	3	4	4	6	11	3	2	4	0	1	0	0	48
(1)	.00	2.07	1.38	2.07	1.38	2.07	2.76	2.76	4.14	7.59	2.07	1.38	2.76	.00	.69	.00	.00	33.10
(2)	.00	.14	.09	.14	.09	.14	.19	.19	.28	.51	.14	.09	.19	.00	.05	.00	.00	2.23
19-24	0	3	1	0	0	2	2	0	4	13	1	0	1	0	0	0	0	27
(1)	.00	2.07	.69	.00	.00	1.38	1.38	.00	2.76	8.97	.69	.00	.69	.00	.00	.00	.00	18.62
(2)	.00	.14	.05	.00	.00	.09	.09	.00	.19	.60	.05	.00	.05	.00	.00	.00	.00	1.25
GT 24	3	3	2	0	1	0	3	0	0	4	0	0	1	0	0	0	0	17
(1)	2.07	2.07	1.38	.00	.69	.00	2.07	.00	.00	2.76	.00	.00	.69	.00	.00	.00	.00	11.72
(2)	.14	.14	.09	.00	.05	.00	.14	.00	.00	.19	.00	.00	.05	.00	.00	.00	.00	.79
ALL SPEEDS	4	10	12	9	5	7	12	9	13	34	6	3	8	3	4	6	0	145
(1)	2.76	6.90	8.28	6.21	3.45	4.83	8.28	6.21	8.97	23.45	4.14	2.07	5.52	2.07	2.76	4.14	.00	100.00
(2)	.19	.46	.56	.42	.23	.32	.56	.42	.60	1.58	.28	.14	.37	.14	.19	.28	.00	6.73

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 30.97

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	1	1	0	0	0	0	1	1	2	1	0	7
(1)	.00	.00	.00	.00	.00	.00	.15	.15	.00	.00	.00	.00	.15	.15	.30	.15	.00	1.05
(2)	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.05	.05	.09	.05	.00	.32
4-7	3	4	5	4	3	1	3	2	3	2	5	1	1	4	9	7	0	57
(1)	.45	.60	.75	.60	.45	.15	.45	.30	.45	.30	.75	.15	.15	.60	1.35	1.05	.00	8.55
(2)	.14	.19	.23	.19	.14	.05	.14	.09	.14	.09	.23	.05	.05	.19	.42	.32	.00	2.65
8-12	3	7	2	4	9	13	13	8	14	12	7	9	5	2	2	7	0	117
(1)	.45	1.05	.30	.60	1.35	1.95	1.95	1.20	2.10	1.80	1.05	1.35	.75	.30	.30	1.05	.00	17.54
(2)	.14	.32	.09	.19	.42	.60	.60	.37	.65	.56	.32	.42	.23	.09	.09	.32	.00	5.43
13-18	8	5	2	7	11	12	14	2	33	103	26	14	16	5	2	5	0	265
(1)	1.20	.75	.30	1.05	1.65	1.80	2.10	.30	4.95	15.44	3.90	2.10	2.40	.75	.30	.75	.00	39.73
(2)	.37	.23	.09	.32	.51	.56	.65	.09	1.53	4.78	1.21	.65	.74	.23	.09	.23	.00	12.30
19-24	2	6	1	1	3	0	1	3	20	96	12	2	11	3	1	4	0	166
(1)	.30	.90	.15	.15	.45	.00	.15	.45	3.00	14.39	1.80	.30	1.65	.45	.15	.60	.00	24.89
(2)	.09	.28	.05	.05	.14	.00	.05	.14	.93	4.46	.56	.09	.51	.14	.05	.19	.00	7.71
GT 24	8	2	1	0	0	0	1	1	4	17	2	0	4	9	3	3	0	55
(1)	1.20	.30	.15	.00	.00	.00	.15	.15	.60	2.55	.30	.00	.60	1.35	.45	.45	.00	8.25
(2)	.37	.09	.05	.00	.00	.00	.05	.05	.19	.79	.09	.00	.19	.42	.14	.14	.00	2.55
ALL SPEEDS	24	24	11	16	26	26	33	17	74	230	52	26	38	24	19	27	0	667
(1)	3.60	3.60	1.65	2.40	3.90	3.90	4.95	2.55	11.09	34.48	7.80	3.90	5.70	3.60	2.85	4.05	.00	100.00
(2)	1.11	1.11	.51	.74	1.21	1.21	1.53	.79	3.44	10.68	2.41	1.21	1.76	1.11	.88	1.25	.00	30.97

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 23.49

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	2	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	7
(1)	.20	.40	.20	.20	.20	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00	1.38
(2)	.05	.09	.05	.05	.05	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.32
4-7	7	5	5	4	3	8	3	1	0	1	5	1	3	0	4	3	0	53
(1)	1.38	.99	.99	.79	.59	1.58	.59	.20	.00	.20	.99	.20	.59	.00	.79	.59	.00	10.47
(2)	.32	.23	.23	.19	.14	.37	.14	.05	.00	.05	.23	.05	.14	.00	.19	.14	.00	2.46
8-12	8	2	1	2	6	9	7	4	6	6	6	3	5	3	0	4	0	72
(1)	1.58	.40	.20	.40	1.19	1.78	1.38	.79	1.19	1.19	1.19	.59	.99	.59	.00	.79	.00	14.23
(2)	.37	.09	.05	.09	.28	.42	.32	.19	.28	.28	.28	.14	.23	.14	.00	.19	.00	3.34
13-18	4	2	3	3	4	2	4	13	12	32	16	7	34	13	6	2	0	157
(1)	.79	.40	.59	.59	.79	.40	.79	2.57	2.37	6.32	3.16	1.38	6.72	2.57	1.19	.40	.00	31.03
(2)	.19	.09	.14	.14	.19	.09	.19	.60	.56	1.49	.74	.32	1.58	.60	.28	.09	.00	7.29
19-24	1	0	0	0	0	1	2	2	8	65	21	12	34	12	2	2	0	162
(1)	.20	.00	.00	.00	.00	.20	.40	.40	1.58	12.85	4.15	2.37	6.72	2.37	.40	.40	.00	32.02
(2)	.05	.00	.00	.00	.00	.05	.09	.09	.37	3.02	.97	.56	1.58	.56	.09	.09	.00	7.52
GT 24	0	0	0	0	0	0	0	1	1	14	8	0	2	19	6	4	0	55
(1)	.00	.00	.00	.00	.00	.00	.00	.20	.20	2.77	1.58	.00	.40	3.75	1.19	.79	.00	10.87
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.05	.65	.37	.00	.09	.88	.28	.19	.00	2.55
ALL SPEEDS	21	11	10	10	14	20	16	21	28	118	56	23	78	47	18	15	0	506
(1)	4.15	2.17	1.98	1.98	2.77	3.95	3.16	4.15	5.53	23.32	11.07	4.55	15.42	9.29	3.56	2.96	.00	100.00
(2)	.97	.51	.46	.46	.65	.93	.74	.97	1.30	5.48	2.60	1.07	3.62	2.18	.84	.70	.00	23.49

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 8.64

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.54	.00	.00	.00	.00	.00	.00	.00	.00	.54
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	2	3	1	2	3	0	3	0	0	3	1	2	2	3	1	2	0	28
(1)	1.08	1.61	.54	1.08	1.61	.00	1.61	.00	.00	1.61	.54	1.08	1.08	1.61	.54	1.08	.00	15.05
(2)	.09	.14	.05	.09	.14	.00	.14	.00	.00	.14	.05	.09	.09	.14	.05	.09	.00	1.30
8-12	2	0	0	0	2	4	2	2	3	3	1	3	4	6	6	2	0	40
(1)	1.08	.00	.00	.00	1.08	2.15	1.08	1.08	1.61	1.61	.54	1.61	2.15	3.23	3.23	1.08	.00	21.51
(2)	.09	.00	.00	.00	.09	.19	.09	.09	.14	.14	.05	.14	.19	.28	.28	.09	.00	1.86
13-18	0	1	0	1	1	0	2	2	2	3	6	12	16	18	5	1	0	70
(1)	.00	.54	.00	.54	.54	.00	1.08	1.08	1.08	1.61	3.23	6.45	8.60	9.68	2.69	.54	.00	37.63
(2)	.00	.05	.00	.05	.05	.00	.09	.09	.09	.14	.28	.56	.74	.84	.23	.05	.00	3.25
19-24	0	0	1	0	0	0	0	0	0	6	15	2	4	1	1	1	0	31
(1)	.00	.00	.54	.00	.00	.00	.00	.00	.00	3.23	8.06	1.08	2.15	.54	.54	.54	.00	16.67
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.28	.70	.09	.19	.05	.05	.05	.00	1.44
GT 24	1	0	0	0	0	0	0	0	0	5	9	0	1	0	0	0	0	16
(1)	.54	.00	.00	.00	.00	.00	.00	.00	.00	2.69	4.84	.00	.54	.00	.00	.00	.00	8.60
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.23	.42	.00	.05	.00	.00	.00	.00	.74
ALL SPEEDS	5	4	2	3	6	4	7	4	6	20	32	19	27	28	13	6	0	186
(1)	2.69	2.15	1.08	1.61	3.23	2.15	3.76	2.15	3.23	10.75	17.20	10.22	14.52	15.05	6.99	3.23	.00	100.00
(2)	.23	.19	.09	.14	.28	.19	.32	.19	.28	.93	1.49	.88	1.25	1.30	.60	.28	.00	8.64

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = 2.46

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
(1)	1.89	.00	.00	.00	.00	.00	1.89	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.77
(2)	.05	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
4-7	0	0	0	1	0	1	0	0	0	0	2	0	1	0	0	0	0	5
(1)	.00	.00	.00	1.89	.00	1.89	.00	.00	.00	.00	3.77	.00	1.89	.00	.00	.00	.00	9.43
(2)	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.09	.00	.05	.00	.00	.00	.00	.23
8-12	0	0	0	0	0	2	0	0	1	3	1	2	1	1	0	0	0	11
(1)	.00	.00	.00	.00	.00	3.77	.00	.00	1.89	5.66	1.89	3.77	1.89	1.89	.00	.00	.00	20.75
(2)	.00	.00	.00	.00	.00	.09	.00	.00	.05	.14	.05	.09	.05	.05	.00	.00	.00	.51
13-18	0	0	0	0	0	0	0	0	1	0	3	6	6	4	2	0	0	22
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.89	.00	5.66	11.32	11.32	7.55	3.77	.00	.00	41.51
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.14	.28	.28	.19	.09	.00	.00	1.02
19-24	1	0	0	0	0	0	0	0	0	0	8	1	2	0	0	0	0	12
(1)	1.89	.00	.00	.00	.00	.00	.00	.00	.00	.00	15.09	1.89	3.77	.00	.00	.00	.00	22.64
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.05	.09	.00	.00	.00	.00	.56
GT 24	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.89	.00	.00	.00	.00	.00	.00	1.89
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
ALL SPEEDS	2	0	0	1	0	3	1	0	2	3	15	9	10	5	2	0	0	53
(1)	3.77	.00	.00	1.89	.00	5.66	1.89	.00	3.77	5.66	28.30	16.98	18.87	9.43	3.77	.00	.00	100.00
(2)	.09	.00	.00	.05	.00	.14	.05	.00	.09	.14	.70	.42	.46	.23	.09	.00	.00	2.46

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 4A-2 (continued)

PILGRIM APR94-JUN94 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS ALL

CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	2	1	1	1	0	2	1	2	1	0	0	1	1	2	2	0	19
(1)	.09	.09	.05	.05	.05	.00	.09	.05	.09	.05	.00	.00	.05	.05	.09	.09	.00	.88
(2)	.09	.09	.05	.05	.05	.00	.09	.05	.09	.05	.00	.00	.05	.05	.09	.09	.00	.88
4-7	21	17	21	13	13	10	10	5	4	8	17	8	10	10	17	14	0	198
(1)	.97	.79	.97	.60	.60	.46	.46	.23	.19	.37	.79	.37	.46	.46	.79	.65	.00	9.19
(2)	.97	.79	.97	.60	.60	.46	.46	.23	.19	.37	.79	.37	.46	.46	.79	.65	.00	9.19
8-12	19	20	7	13	25	37	31	22	36	41	23	28	24	25	14	17	0	382
(1)	.88	.93	.32	.60	1.16	1.72	1.44	1.02	1.67	1.90	1.07	1.30	1.11	1.16	.65	.79	.00	17.73
(2)	.88	.93	.32	.60	1.16	1.72	1.44	1.02	1.67	1.90	1.07	1.30	1.11	1.16	.65	.79	.00	17.73
13-18	16	31	11	16	25	32	30	25	93	200	76	53	98	47	22	12	0	787
(1)	.74	1.44	.51	.74	1.16	1.49	1.39	1.16	4.32	9.29	3.53	2.46	4.55	2.18	1.02	.56	.00	36.54
(2)	.74	1.44	.51	.74	1.16	1.49	1.39	1.16	4.32	9.29	3.53	2.46	4.55	2.18	1.02	.56	.00	36.54
19-24	9	24	11	4	5	7	5	7	53	226	63	23	57	27	10	15	0	546
(1)	.42	1.11	.51	.19	.23	.32	.23	.32	2.46	10.49	2.92	1.07	2.65	1.25	.46	.70	.00	25.35
(2)	.42	1.11	.51	.19	.23	.32	.23	.32	2.46	10.49	2.92	1.07	2.65	1.25	.46	.70	.00	25.35
GT 24	27	10	3	0	2	0	4	4	13	49	25	0	16	42	11	16	0	222
(1)	1.25	.46	.14	.00	.09	.00	.19	.19	.60	2.27	1.16	.00	.74	1.95	.51	.74	.00	10.31
(2)	1.25	.46	.14	.00	.09	.00	.19	.19	.60	2.27	1.16	.00	.74	1.95	.51	.74	.00	10.31
ALL SPEEDS	94	104	54	47	71	86	82	64	201	525	204	112	206	152	76	76	0	2154
(1)	4.36	4.83	2.51	2.18	3.30	3.99	3.81	2.97	9.33	24.37	9.47	5.20	9.56	7.06	3.53	3.53	.00	100.00
(2)	4.36	4.83	2.51	2.18	3.30	3.99	3.81	2.97	9.33	24.37	9.47	5.20	9.56	7.06	3.53	3.53	.00	100.00

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

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

C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

5. OFF-SITE DOSE CALCULATION MANUAL REVISIONS

The PNPS Off-site Dose Calculation Manual (ODCM) was not revised during the time frame of January - June, 1994.

6. REFERENCES

1. U. S. Nuclear Regulatory Commission, "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", Regulatory Guide 1.21, Revision 1, June 1974.
2. T. A. Messier memorandum to K. J. Sejkora, "PNPS Meteorological Data Joint Frequency Distribution Tables January - June 1994 (Revision 1)", dated August 23, 1994.

KJS/gml