



Pilgrim Nuclear Power Station
Rocky Hill Road
Plymouth, Massachusetts 02360

10 CFR 50.36a(a)(2)
PNPS TS Section 6.9.C.1
Reg. Guide 1.21

L. J. Olivier

Vice President Nuclear Operations
and Station Director

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Subject: SEMI-ANNUAL RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT
INCLUDING METEOROLOGICAL DATA FOR THE PERIOD JULY 1, 1996
THROUGH DECEMBER 31, 1996

In accordance with the requirements of 10 CFR 50.36a(a)(2), Pilgrim Nuclear Power Station Technical Specification Section 6.9.C.1, and Regulatory Guide 1.21, the Boston Edison Company submits the semi-annual Radioactive Effluent and Waste Disposal Report Including Meteorological Data for the period of July 1 through December 31, 1996.

Please do not hesitate to contact me if there are any questions regarding this report.


L. J. Olivier

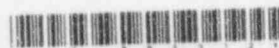
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PILGRIM NUCLEAR POWER STATION

**Radioactive Effluent and
Waste Disposal Report
Including Meteorological Data**

July 01 through December 31, 1996





PILGRIM NUCLEAR POWER STATION

RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT
INCLUDING METEOROLOGICAL DATA

JULY 01 THROUGH DECEMBER 31, 1996

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Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
July-December 1996

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1. Introduction	5
2. Radioactive Effluent Data	5
3. Radioactive Waste Disposal Data	13
4. Meteorological Data	16
5. Offsite Dose Calculation Manual Revisions	33
6. References	34

LIST OF TABLES

<u>TABLE</u>	<u>PAGE</u>
Supplemental Information	7
1A Gaseous Effluents - Summation of All Releases	8
1B Gaseous Effluents -Elevated Releases	9
1C Gaseous Effluents - Ground Level Releases	10
2A Liquid Effluents - Summation of All Releases	11
2B Liquid Effluents	12
3 Solid Waste and Irradiated Fuel Shipments	13
4A Distribution of Wind Directions and Speeds for the 33-ft Level of the 220-ft Tower	17
4B Distribution of Wind Directions and Speeds for the 220-ft Level of the 220-ft Tower	25

EXECUTIVE SUMMARY

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT
INCLUDING METEOROLOGICAL DATA
JULY 01 THROUGH DECEMBER 31, 1996

INTRODUCTION

This report quantifies the radioactive gaseous, liquid, and radwaste releases, and summarizes the local meteorological data for the period from July 01 through December 31, 1996. 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 Material in Liquid and Gaseous Effluents from Light Water Cooled Nuclear Power Plants".

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

GASEOUS EFFLUENTS

Gaseous radioactive releases for the reporting period are quantified in Tables 1A, 1B, and 1C. Radioactive noble gases released during the period totaled 304 Curies. Releases of radioactive particulates and iodines totaled 0.023 Curies, and tritium releases totaled 46.7 Curies. No gross alpha radioactivity was detected in gaseous effluents.

LIQUID EFFLUENTS

Liquid radioactive releases for the reporting period are quantified in Tables 2A and 2B. Liquid effluents released into the discharge canal contained 0.0084 Curies of fission and activation products, and 14.6 Curies of tritium. Less than 0.00005 Curies of dissolved and entrained noble gases was detected in liquid effluents. No gross alpha radioactivity was detected in liquid effluents.

SOLID WASTE

Solid radioactive waste shipped offsite for processing and disposal during the reporting period is described in Table 3. Approximately 26 cubic meters of solid waste, containing 594 Curies of radioactivity, were shipped during the reporting period.

METEOROLOGICAL DATA

Meteorological joint frequency distributions are listed in Tables 4A and 4B. The data recovery for the reporting period exceeded 99%, and exceeded 95% for the entire year. The predominant wind direction was from the south-southwest, which occurred approximately 16% of the time during the reporting period. The predominant stability class was Class D, which occurred about 38% of the time during the reporting period.

CONCLUSION

The PNPS Technical Specifications contain limiting conditions for operations and operational objectives to limit doses resulting from releases of radioactivity to the environment. None of the limiting conditions for operation or operational objectives associated with liquid or gaseous effluents were exceeded during the reporting period, as confirmed by conservative dose assessments performed at weekly and monthly intervals. Detailed dose assessments will be published in a supplement report due April 01, 1997. Conformance to the PNPS Technical Specification operational objectives ensures that releases of radioactivity in liquid and gaseous effluents are kept as low as reasonably achievable in accordance with 10 CFR Part 50, Appendix I. Compliance with the Technical Specifications also demonstrates that requirements of the Environmental Protection Agency's nuclear fuel cycle standard, 40 CFR 190.10, Subpart B, have been met.

1. INTRODUCTION

This report is issued for the period of July 01 through December 31, 1996 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 Material 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 in 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 01, and is to contain impact assessments for both semiannual periods. Since Technical Specification limits for gaseous effluents listed in Table 1A are based on calculated doses, these values are not presented in the semiannual effluent release reports. These "Percent of Technical Specification Limit" values will be presented in the supplemental dose assessment report.

2. RADIOACTIVE EFFLUENT DATA

Radioactive liquid and gaseous releases for the period July 01 through December 31, 1996 are given in the standard NRC Regulatory Guide 1.21 format in Tables 1A, 1B, 1C, 2A, 2B, and supplemental information form.

2.1 Gaseous Effluents

Gaseous radioactivity is released from Pilgrim Station to the atmosphere from the main stack, reactor building vent, and turbine building. Combined gaseous effluent releases from all release points are summarized in Table 1A. No alpha activity was detected on any of the particulate filters collected during the reporting period. The total gaseous releases for various categories of radionuclides, as well as the corresponding average release rates, can be summarized as follows:

- | | | |
|---|------------|----------------------------|
| • Noble gases: | 304 Ci, | 19.3 $\mu\text{Ci/sec}$ |
| • Particulates and iodines with half-life greater than 8 days | 0.0229 Ci, | 0.00145 $\mu\text{Ci/sec}$ |
| • Tritium: | 46.7 Ci, | 2.96 $\mu\text{Ci/sec}$ |

Effluent releases from the main stack are detailed in Table 1B. The main stack is an elevated release point with a height of approximately 400 feet above sea level. The main stack is located about 700 feet west-northwest of the reactor building.

Ground-level effluent releases are detailed in Table 1C. Data in this table includes releases from the reactor building vent and turbine building. Due to the close proximity of the reactor building, both of these release points are considered to be mixed-mode/ground level release points.

2.2 Liquid Effluents

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

Liquid effluent releases are summarized in Table 2A. Detailed breakdowns for individual radionuclides are listed in Table 2B. No gross alpha radioactivity was detected in liquid effluents released during the reporting period. Total releases for the various categories of radionuclides, as well as their corresponding mean concentrations, can be summarized as follows:

- Total Effluent Volume: 303,000 Liters
- Total Dilution Volume: 1,060,000,000 Liters
- Fission/Activation products: 0.00836 Ci, 0.00000000291 $\mu\text{Ci/mL}$
- Tritium: 14.6 Ci, 0.00000509 $\mu\text{Ci/mL}$
- Dissolved/entrained noble gases: 0.0000464 Ci, 0.0000000000162 $\mu\text{Ci/mL}$

There was one abnormal release of liquid effluents during the reporting period. On July 08, 1996, preparations were being made to discharge the neutralizing sump via its normal release pathway through the storm drain. The tank was placed into sparge to mix the tank contents and facilitate representative sampling. During the sparging step, approximately 190 liters (50 gallons) of liquid overflowed from the top of the tank, flowed over the floor, and into the storm drain normally used to discharge the neutralizing sump. This discharge was estimated to contain less than 5E-8 Curies of fission and activation products and 3E-5 Curies of tritium. This radioactivity contributed less than 2E-8 mrem to doses from liquid effluents.

Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Supplemental Information
July-December 1996

FACILITY: PILGRIM NUCLEAR POWER STATION

LICENSE: 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-life: >8 days, tritium | 1500 mrem/yr to any organ at site boundary |
| d. Liquid effluents: | 0.06 mrem/month for whole body and
0.2 mrem/month for any organ
(without radwaste treatment) |

2. EFFLUENT CONCENTRATION LIMITS

- | | |
|--|--|
| a. Fission and activation gases: | 10CFR20 Appendix B Table II |
| b. Iodines: | 10CFR20 Appendix B Table II |
| c. Particulates with half-life > 8 days: | 10CFR20 Appendix B Table II |
| d. Liquid effluents: | 2E-04 μ Ci/mL for entrained noble gases;
10CFR20 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 germanium gamma spectroscopy for all gamma emitters; radiochemistry analysis for H-3, Fe-55 (liquid effluents), Sr-89, and Sr-90 |
| b. Iodines: | |
| c. Particulates: | |
| d. Liquid effluents: | |

5. BATCH RELEASES

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

- b. Gaseous Effluents

Jul-Sep 1996	Oct-Dec 1996
2.70E+01	2.30E+01
1.61E+03	9.05E+02
1.90E+02	1.00E+02
5.96E+01	3.93E+01
1.00E+01	2.00E+01
1.12E+06	1.17E+06
None	None
1	None
None	None

6. ABNORMAL RELEASES

- a. Liquid Effluents
- b. Gaseous Effluents

Table 1A
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Summation of All Releases
July-December 1996

Period: Jul-Sep 1996	Period: Oct-Dec 1996	Estimated Total Error
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A. FISSION AND ACTIVATION GASES

Total Release: Ci	1.41E+02	1.63E+02	±22%
Average Release Rate During Period: $\mu\text{Ci/sec}$	1.79E+01	2.07E+01	
Percent of Technical Specification Limit	*	*	

B. IODINES

Total Iodine-131 Release: Ci	3.33E-03	1.05E-03	±20%
Average Release Rate During Period: $\mu\text{Ci/sec}$	4.22E-04	1.33E-04	
Percent of Technical Specification Limit	*	*	

C. PARTICULATES

Total Release: Ci	7.10E-04	2.87E-04	±21%
Average Release Rate During Period: $\mu\text{Ci/sec}$	9.00E-05	3.64E-05	
Percent of Technical Specification Limit	*	*	
Gross Alpha Radioactivity: Ci	NDA	NDA	

D. TRITIUM

Total Release: Ci	1.77E+01	2.90E+01	±20%
Average Release Rate During Period: $\mu\text{Ci/sec}$	2.25E+00	3.68E+00	
Percent of Technical Specification Limit	*	*	

Notes for Table 1A:

* Percent of Technical Specification limit values in above sections 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, 1997.

1. NDA stands for No Detectable Activity.
2. LLD for airborne gross alpha activity listed as NDA is $1\text{E-}11 \mu\text{Ci/cc}$.

Table 1B
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Elevated Release
July-December 1996

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 1996	Oct-Dec 1996	Jul-Sep 1996	Oct-Dec 1996

1. FISSION AND ACTIVATION GASES - Ci

Kr-85m	1.24E+01	3.00E+01	N/A	N/A
Kr-87	7.70E-01	NDA	N/A	N/A
Kr-88	1.17E+00	2.22E+01	N/A	N/A
Xe-131m	2.06E+00	NDA	N/A	N/A
Xe-133	7.61E+01	7.05E+01	N/A	N/A
Xe-135	2.99E+00	1.89E+00	N/A	N/A
Xe-135m	1.63E+00	1.12E+00	N/A	N/A
Xe-138	1.78E+01	1.50E+01	N/A	N/A
Total for period	1.15E+02	1.41E+02	N/A	N/A

2. IODINES - Ci

I-131	1.46E-03	5.28E-04	N/A	N/A
I-133	3.52E-03	2.10E-03	N/A	N/A
Total for period	4.98E-03	2.63E-03	N/A	N/A

3. PARTICULATES - Ci

Co-60	1.68E-06	NDA	N/A	N/A
Sr-89	5.05E-05	4.27E-05	N/A	N/A
Sr-90	NDA	NDA	N/A	N/A
Cs-134	NDA	NDA	N/A	N/A
Cs-137	NDA	NDA	N/A	N/A
Ba/La-140	6.76E-05	2.27E-05	N/A	N/A
Total for period	1.20E-04	6.54E-05	N/A	N/A

4. TRITIUM - Ci

H-3	9.31E-01	4.22E-01	N/A	N/A
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Notes for Table 1B:

1. N/A stands for not applicable.
2. NDA stands for No Detectable Activity.
3. LLD for airborne radionuclides listed as NDA are as follows:
 Fission Gases: 1E-04 μ Ci/cc
 Iodines: 1E-12 μ Ci/cc
 Particulates: 1E-11 μ Ci/cc

Table 1C
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Ground Level Release
July-December 1996

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 1996	Oct-Dec 1996	Jul-Sep 1996	Oct-Dec 1996

1. FISSION AND ACTIVATION GASES - Ci

Kr-85m	NDA	NDA	N/A	N/A
Kr-87	NDA	NDA	N/A	N/A
Kr-88	NDA	NDA	N/A	N/A
Xe-133	NDA	NDA	N/A	N/A
Xe-135	2.61E+01	1.42E+01	N/A	N/A
Xe-135m	NDA	8.12E+00	N/A	N/A
Xe-138	NDA	NDA	N/A	N/A
Total for period	2.61E+01	2.23E+01	N/A	N/A

2. IODINES - Ci

I-131	1.87E-03	5.22E-04	N/A	N/A
I-133	8.48E-03	3.40E-03	N/A	N/A
Total for period	1.04E-02	3.92E-03	N/A	N/A

3. PARTICULATES - Ci

Mn-54	1.40E-05	NDA	N/A	N/A
Co-60	2.34E-05	NDA	N/A	N/A
Sr-89	2.30E-04	8.82E-05	N/A	N/A
Sr-90	NDA	NDA	N/A	N/A
Cs-134	NDA	NDA	N/A	N/A
Cs-137	NDA	NDA	N/A	N/A
Ba/La-140	3.23E-04	1.34E-04	N/A	N/A
Total for period	5.90E-04	2.22E-04	N/A	N/A

4. TRITIUM - Ci

H-3	1.68E+01	2.86E+01	N/A	N/A
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Notes for Table 1C:

1. N/A stands for not applicable.
2. NDA stands for No Detectable Activity.
3. LLD for airborne radionuclides listed as NDA are as follows:
 Fission Gases: 1E-04 μ Ci/cc
 Iodines: 1E-12 μ Ci/cc
 Particulates: 1E-11 μ Ci/cc

Table 2A
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Liquid Effluents - Summation of All Releases
July-December 1996

Period: Jul-Sep 1996	Period: Oct-Dec 1996	Estimated Total Error
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A. FISSION AND ACTIVATION PRODUCTS

Total Release (not including H-3, noble gas, or alpha): Ci	6.48E-03	1.88E-03	±12%
Average Diluted Concentration During Period: $\mu\text{Ci/mL}$	3.58E-09	1.78E-09	
Percent of Effluent Concentration Limit*	4.88E-02%	3.11E-02%	

B. TRITIUM

Total Release: Ci	1.07E+01	3.90E+00	±9.4%
Average Diluted Concentration During Period: $\mu\text{Ci/mL}$	5.91E-06	3.68E-06	
Percent of Effluent Concentration Limit*	5.91E-01%	3.68E-01%	

C. DISSOLVED AND ENTRAINED GASES

Total Release: Ci	4.64E-05	NDA	±16%
Average Diluted Concentration During Period: $\mu\text{Ci/mL}$	2.56E-11	NDA	
Percent of Effluent Concentration Limit*	1.28E-05%	--	

D. GROSS ALPHA RADIOACTIVITY

Total Release: Ci	NDA	NDA	±34%
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E. VOLUME OF WASTE RELEASED PRIOR TO DILUTION

Waste Volume: Liters	7.21E+05	3.03E+05	±5.7%
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F. VOLUME OF DILUTION WATER USED DURING PERIOD

Dilution Volume: Liters	1.81E+09	1.06E+09	±10%
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Notes for Table 2A:

* Additional percent of Technical Specification limit values based on dose assessments will be provided in the annual supplemental dose assessment report to be issued prior to April 1, 1997.

1. NDA stands for No Detectable Activity.
2. LLD for dissolved and entrained gases listed as NDA is $1\text{E-}05 \mu\text{Ci/mL}$.
3. LLD for liquid gross alpha activity listed as NDA is $1\text{E-}07 \mu\text{Ci/mL}$.

Table 2B
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Liquid Effluents
July-December 1996

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 1996	Oct-Dec 1996	Jul-Sep 1996	Oct-Dec 1996

1. FISSION AND ACTIVATION PRODUCTS - Ci

Cr-51	N/A	N/A	NDA	NDA
Mn-54	N/A	N/A	3.90E-05	1.01E-04
Fe-55	N/A	N/A	5.02E-03	1.05E-03
Fe-59	N/A	N/A	1.63E-05	6.91E-07
Co-58	N/A	N/A	5.84E-07	NDA
Co-60	N/A	N/A	6.39E-04	6.33E-04
Zn-65	N/A	N/A	NDA	NDA
Sr-89	N/A	N/A	NDA	NDA
Sr-90	N/A	N/A	1.50E-06	6.17E-06
Zr/Nb-95	N/A	N/A	NDA	NDA
Mo-99/Tc-99m	N/A	N/A	1.04E-05	NDA
Ag-110m	N/A	N/A	NDA	NDA
Sb-124	N/A	N/A	NDA	NDA
I-131	N/A	N/A	NDA	6.11E-06
I-133	N/A	N/A	NDA	NDA
Cs-134	N/A	N/A	NDA	NDA
Cs-137	N/A	N/A	5.93E-04	8.64E-05
Ba/La-140	N/A	N/A	1.65E-04	NDA
Ce-141	N/A	N/A	NDA	NDA
Total for period	N/A	N/A	6.48E-03	1.88E-03

2. DISSOLVED AND ENTRAINED GASES - Ci

Xe-133	N/A	N/A	NDA	NDA
Xe-135	N/A	N/A	4.64E-05	NDA
Total for period	N/A	N/A	4.64E-05	NDA

Notes for Table 2B:

1. N/A stands for not applicable.
2. NDA stands for No Detectable Activity.
3. LLD for liquid radionuclides listed as NDA are as follows:

Strontium:	5E-08 μ Ci/mL
Iodines:	1E-06 μ Ci/mL
Noble Gases:	1E-05 μ Ci/mL
All Others:	5E-07 μ Ci/mL

3. RADIOACTIVE WASTE DISPOSAL DATA

Radioactive wastes which were shipped offsite for processing and disposal during the reporting period are described in Table 3, in the standard NRC Regulatory Guide 1.21 format.

The total quantity of radioactivity in Curies and the total volume in cubic meters are summarized in Table 3 for the following waste categories:

- Spent resins, filter sludges, and evaporator bottoms;
- Dry compressible wastes, contaminated equipment, etc.;
- Irradiated components, control rods, etc.; and,
- Other.

During the reporting period approximately 11.2 cubic meters of spent resins, filter sludges, etc., containing a total activity of about 588 Curies were shipped from PNPS for processing and disposal. Dry compressible wastes and contaminated equipment shipped during the period totaled 14.9 cubic meters and contained 6.3 Curies of radioactivity. One shipment of irradiated components containing less than 0.003 cubic meters of volume and less than 0.00002 Curies of activity was made. No shipments of irradiated fuel were made during the reporting period.

Estimates of major radionuclides, those comprising greater than 1% of the total activity in each waste category shipped, are listed in Table 3. Four shipments to Barnwell, SC (Chem Nuclear Systems, Inc.), and three shipments to Oak Ridge, TN (Scientific Ecology Group), were made during the reporting period.

Table 3
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Solid Waste and Irradiated Fuel Shipments
July-December 1996

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

1. Estimate of volume and activity content by type of waste

Type of waste	Jul-Dec 1996		
	Volume - m ³	Curies	Total Error
a. Spent resins, filters, filter sludges, evaporator bottoms, etc.	1.12E+01	5.88E+02	± 25%
b. Dry compressible waste, contaminated equipment, etc.	1.49E+01	6.34E+00	± 25%
c. Irradiated components, control rods, etc.	3.00E-03	1.88E-05	± 25%
d. Other (describe)	None	None	N/A

2. Estimate of major nuclide composition by type of waste¹

Type of waste	Radionuclide	Abundance	Total Error
a. Spent resins, filters, filter sludges, evaporator bottoms, etc.	Mn-54	4.5%	± 25%
	Fe-55	41.5%	± 25%
	Co-60	49.2%	± 25%
	Cs-137	2.9%	± 25%
b. Dry compressible waste, contaminated equipment, etc.	Cr-51	1.0%	± 25%
	Mn-54	5.5%	± 25%
	Fe-55	57.6%	± 25%
	Co-60	29.4%	± 25%
	Ni-63	2.4%	± 25%
	Cs-137	2.4%	± 25%
	Ce-144	1.5%	± 25%
c. Irradiated components, control rods, etc.	Pu-238	44.3%	± 25%
	Pu-239/240	3.2%	± 25%
	Pu-241	51.2%	± 25%
d. Other (describe)	None	None	N/A

¹ "Major" is defined as any radionuclide comprising >1% of the total activity in the waste category.

Table 3 (continued)

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (continued)**3. Solid Waste Disposition**

Number of Shipments	Mode of Transportation	Destination
4	Tractor-trailer	Chem Nuclear Systems, Inc., Barnwell, SC
3	Tractor-trailer	Scientific Ecology Group, ² Oak Ridge, TN

² This processor provides volume reduction services for dry compressible waste, contaminated equipment, etc. Remaining radioactive wastes will be shipped to Chem Nuclear Systems, Inc. in Barnwell, SC, for final disposal.

B. IRRADIATED FUEL SHIPMENTS & DISPOSITION

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

4. METEOROLOGICAL DATA

Meteorological data (Reference 2) are summarized for the reporting period in Tables 4A and 4B, in the standard joint frequency distribution format as given in NRC Regulatory Guide 1.21.

The predominant meteorological conditions observed during the reporting period can be summarized with their corresponding frequencies as follows:

- Stability Class: Class D, 38%
- Wind Direction (from): South-southwest, 16%
- 33-ft Wind Speed: 4-7 mph, 52%
- 220-ft Wind Speed: 13-18 mph, 32%

There were a very limited number of instances when data collection from the 220-ft meteorological tower was not continuous. Typically, such data losses were attributed to loss of power, malfunction of the sensors, and/or malfunction of the digital dataloggers. Data recovery for the period was in excess of 99% for both levels of the tower. When combined with the data collected during the January through June reporting period, overall data recovery for the entire year was approximately 96%, well in excess of the NRC's recommended annual recovery goal of 90%.

Table 4A
Distributions of Wind Directions and Speeds
for the 33-ft Level of the 220-ft Tower

PILGRIM JUL96-SEP96 MBT DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS A						CLASS FREQUENCY (PERCENT) = 9.65										VRBL	TOTAL
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	1	0	1	2	0	0	0	0	0	0	1	0	0	1	0	7	
(1)	.00	.47	.47	.00	.47	.94	.00	.00	.00	.00	.00	.00	.47	.00	.00	.47	.00	3.29	
(2)	.00	.05	.05	.00	.05	.09	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.00	.32	
4-7	10	16	13	9	8	4	3	0	10	28	13	4	14	7	4	9	0	152	
(1)	4.69	7.51	6.10	4.23	3.76	1.88	1.41	.00	4.69	13.15	6.10	1.88	6.57	3.29	1.88	4.23	.00	71.36	
(2)	.45	.72	.59	.41	.36	.18	.14	.00	.45	1.27	.59	.18	.63	.32	.18	.41	.00	6.89	
8-12	0	0	0	0	0	0	0	0	13	29	7	0	5	0	0	0	0	54	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	6.10	13.62	3.29	.00	2.35	.00	.00	.00	.00	25.35	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.59	1.31	.32	.00	.23	.00	.00	.00	.00	2.45	
13-18	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	
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	10	17	14	9	8	6	3	0	23	57	20	4	20	7	4	10	0	213	
(1)	4.69	7.98	6.57	4.23	4.21	2.82	1.41	.00	10.80	26.76	9.39	1.88	9.39	3.29	1.88	4.69	.00	100.00	
(2)	.45	.77	.63	.41	.41	.27	.14	.00	1.04	2.58	.91	.18	.91	.32	.18	.45	.00	9.65	

33.0 FT WIND DATA		STABILITY CLASS A						CLASS FREQUENCY (PERCENT) = 4.21										VRBL	TOTAL
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION PERC 4						SW	WSW	W	WNW	NW		
CALM	0	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	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	1	0	1	1	0	0	0	0	0	0	0	1	1	0	1	0	6
(1)	.00	.00	1.08	.00	1.08	1.08	.00	.00	.00	.00	.00	.00	.00	1.08	1.08	.00	1.08	.00	6.45
(2)	.00	.00	.05	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.05	.00	.27
4-7	0	2	1	3	7	1	1	2	4	9	9	12	5	4	1	1	0	0	62
(1)	.00	2.15	1.08	3.23	7.53	1.08	1.08	2.15	4.30	9.68	9.68	12.90	5.38	4.30	1.08	1.08	.00	.00	66.67
(2)	.00	.09	.05	.14	.32	.05	.05	.09	.18	.41	.41	.54	.23	.18	.05	.05	.00	.00	2.81
8-12	0	0	0	0	0	0	0	0	7	12	5	0	0	0	0	0	1	0	25
(1)	.00	.00	.00	.00	.00	.00	.00	.00	7.53	12.90	5.38	.00	.00	.00	.00	.00	1.08	.00	26.88
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.32	.54	.23	.00	.00	.00	.00	.00	.05	.00	1.13
13-18	0	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	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	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	.00
(2)	.00	.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	0
(1)	.00	.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	.00
ALL SPEEDS	0	2	2	3	8	2	1	2	11	21	14	12	6	5	1	3	0	0	93
(1)	.00	2.15	2.15	3.23	8.60	2.15	1.08	2.15	11.83	22.58	15.05	12.90	6.45	5.38	1.08	3.23	.00	.00	100.00
(2)	.00	.09	.09	.14	.36	.09	.05	.09	.50	.95	.63	.54	.27	.23	.05	.14	.00	.00	4.21

(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 (continued)

PILGRIM JUL96-SEP96 MMT DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C						CLASS FREQUENCY (PERCENT) = 4.53													
		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	1	0	1	2	1	0	1	0	1	2	1	0	2	1	0	0	13		
(1)		.00	1.00	.00	1.00	2.00	1.00	.00	.00	1.00	.00	1.00	2.00	1.00	.00	2.00	1.00	.00	13.00		
(2)		.00	.05	.00	.05	.09	.05	.00	.00	.05	.00	.05	.09	.05	.00	.09	.05	.00	.59		
4-7		2	3	1	5	8	2	3	2	7	5	10	3	4	4	4	1	0	64		
(1)		2.00	3.00	1.00	5.00	8.00	2.00	3.00	2.00	7.00	5.00	10.00	3.00	4.00	4.00	4.00	1.00	.00	64.00		
(2)		.09	.14	.05	.23	.36	.09	.14	.09	.32	.23	.45	.14	.18	.18	.18	.05	.00	2.90		
8-12		0	0	0	0	0	1	0	0	6	7	1	1	3	0	0	0	0	19		
(1)		.00	.00	.00	.00	.00	1.00	.00	.00	6.00	7.00	1.00	1.00	3.00	.00	.00	.00	.00	19.00		
(2)		.00	.00	.00	.00	.00	.05	.00	.00	.27	.32	.05	.05	.14	.00	.00	.00	.00	.86		
13-18		3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4		
(1)		3.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.00	.00	.00	.00	.00	4.00		
(2)		.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.18		
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		5	4	1	6	10	4	3	2	14	12	12	6	9	4	6	2	0	100		
(1)		5.00	4.00	1.00	6.00	10.00	4.00	3.00	2.00	14.00	12.00	12.00	6.00	9.00	4.00	6.00	2.00	.00	100.00		
(2)		.23	.18	.05	.27	.45	.18	.14	.09	.63	.54	.54	.27	.41	.18	.27	.09	.00	4.53		

33.0 FT WIND DATA		STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 37.02												
		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		9	10	8	15	10	21	11	8	25	15	17	10	6	12	18	13	0	208	
(1)		1.10	1.22	.98	1.84	1.22	2.57	1.35	.98	3.06	1.84	2.08	1.22	.73	1.47	2.20	1.59	.00	25.46	
(2)		.41	.45	.36	.68	.45	.95	.50	.36	1.13	.68	.77	.45	.27	.54	.82	.59	.00	9.42	
4-7		17	16	26	30	42	16	8	13	39	74	35	26	9	8	4	13	0	376	
(1)		2.08	1.96	3.18	3.67	5.14	1.96	.98	1.59	4.77	9.06	4.28	3.18	1.10	.98	.49	1.59	.00	46.02	
(2)		.77	.72	1.18	1.36	1.90	.72	.36	.59	1.77	3.35	1.59	1.18	.41	.36	.18	.59	.00	17.04	
8-12		8	12	7	3	13	1	3	1	20	90	16	5	4	1	0	3	0	187	
(1)		.98	1.47	.86	.37	1.59	.12	.37	.12	2.45	11.02	1.96	.61	.49	.12	.00	.37	.00	22.89	
(2)		.36	.54	.32	.14	.59	.05	.14	.05	.91	4.08	.72	.23	.18	.05	.00	.14	.00	8.47	
13-18		11	15	7	2	1	0	0	0	2	6	0	0	0	0	0	2	0	46	
(1)		1.35	1.84	.86	.24	.12	.00	.00	.00	.24	.73	.00	.00	.00	.00	.00	.24	.00	5.63	
(2)		.50	.68	.32	.09	.05	.00	.00	.00	.09	.27	.00	.00	.00	.00	.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		45	53	48	50	66	38	22	22	86	195	68	41	19	21	22	31	0	817	
(1)		5.51	6.49	5.88	6.12	8.08	4.65	2.69	2.69	10.53	22.64	8.32	5.02	2.33	2.57	2.69	3.79	.00	100.00	
(2)		2.04	2.40	2.17	2.27	2.99	1.72	1.00	1.00	3.90	8.38	3.08	1.86	.86	.95	1.00	1.40	.00	37.02	

(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 (continued)

PILGRIM JUL96-SEP96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS E						CLASS FREQUENCY (PERCENT) = 28.68											
		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	1	0	0	0	0	0	0	1
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.16
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
C-3		5	4	3	13	14	16	21	33	21	15	9	10	14	10	4	5	0	197
(1)		.79	.63	.47	2.05	2.21	2.53	3.32	5.21	3.32	2.37	1.42	1.58	2.21	1.58	.63	.79	.00	31.12
(2)		.23	.18	.14	.59	.63	.72	.95	1.50	.95	.68	.41	.45	.63	.45	.18	.23	.00	8.93
4-7		3	8	4	24	16	8	2	13	31	70	49	30	17	8	4	3	0	290
(1)		.47	1.26	.63	3.79	2.53	1.26	.32	2.05	4.90	11.06	7.74	4.74	2.69	1.26	.63	.47	.00	45.81
(2)		.14	.36	.18	1.09	.72	.36	.09	.59	1.40	3.17	2.22	1.36	.77	.36	.18	.14	.00	13.14
8-12		2	4	0	0	0	0	0	0	9	72	20	16	6	0	8	1	0	138
(1)		.32	.63	.00	.00	.00	.00	.00	.00	1.42	11.37	3.16	2.53	.95	.00	1.26	.16	.00	21.80
(2)		.09	.18	.00	.00	.00	.00	.00	.00	.41	3.26	.91	.72	.27	.00	.36	.05	.00	6.25
13-18		2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	0	7
(1)		.32	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.63	.00	1.11
(2)		.09	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.18	.00	.32
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		12	16	7	37	30	24	23	46	62	157	79	56	37	18	16	13	0	633
(1)		1.90	2.53	1.11	5.85	4.74	3.79	3.63	7.27	9.79	24.80	12.48	8.85	5.85	2.84	2.53	2.05	.00	100.00
(2)		.54	.72	.32	1.68	1.36	1.09	1.04	2.08	2.81	7.11	3.58	2.54	1.68	.82	.72	.59	.00	28.68

33.0 FT WIND DATA		STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 12.10											
		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	0
(1)	.00	.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	.00
C-3	2	1	2	4	3	3	5	5	10	8	11	9	6	3	6	2	0	0	80
(1)	.75	.37	.75	1.50	1.12	1.12	1.87	1.87	3.75	3.00	4.12	3.37	2.25	1.12	2.25	.75	.00	29.96	
(2)	.09	.05	.09	.18	.14	.14	.23	.23	.45	.36	.50	.41	.27	.14	.27	.09	.00	3.62	
4-7	1	0	0	2	0	0	0	1	3	34	82	14	4	2	0	0	0	0	143
(1)	.37	.00	.00	.75	.00	.00	.00	.37	1.12	12.73	30.71	5.24	1.50	.75	.00	.00	.00	.00	53.56
(2)	.05	.00	.00	.09	.00	.00	.00	.05	.14	1.54	3.72	.63	.18	.09	.00	.00	.00	.00	6.48
8-12	0	0	0	0	0	0	0	0	0	32	12	0	0	0	0	0	0	0	44
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.99	4.49	.00	.00	.00	.00	.00	.00	.00	16.48
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.45	.54	.00	.00	.00	.00	.00	.00	.00	1.99
13-18	0	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	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	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	.00
(2)	.00	.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	0
(1)	.00	.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	.00
ALL SPEEDS	3	1	2	6	3	3	5	6	13	74	105	23	10	5	6	2	0	0	267
(1)	1.12	.37	.75	2.25	1.12	1.12	1.87	2.25	4.87	27.72	39.33	8.61	3.75	1.87	2.25	.75	.00	100.00	
(2)	.14	.05	.09	.27	.14	.14	.23	.27	.59	3.35	4.76	1.04	.45	.23	.27	.09	.00	12.10	

(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 (continued)

PILGRIM JUL96-SEP96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G						CLASS FREQUENCY (PERCENT) = 3.81											
SPEED (MPH)	"	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	1	0	1	0	0	0	3	1	5	1	0	1	0	0	13	
(1)	.00	.00	.00	1.19	.00	1.19	.00	.00	.00	3.57	1.19	5.95	1.19	.00	1.19	.00	.00	15.48	
(2)	.00	.00	.00	.05	.00	.05	.00	.00	.00	.14	.05	.23	.05	.00	.05	.00	.00	.59	
4-7	0	0	0	0	0	0	0	0	0	9	38	2	0	0	0	0	0	49	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	10.71	45.24	2.38	.00	.00	.00	.00	.00	58.33	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41	1.72	.09	.00	.00	.00	.00	.00	2.22	
8-12	0	0	0	0	0	0	0	0	0	8	14	0	0	0	0	0	0	22	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.52	16.67	.00	.00	.00	.00	.00	.00	26.19	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.36	.63	.00	.00	.00	.00	.00	.00	1.00	
13-18	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	
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	0	0	1	0	1	0	0	0	20	53	7	1	0	1	0	0	84	
(1)	.00	.00	.00	1.19	.00	1.19	.00	.00	.00	23.81	63.10	8.33	1.19	.00	1.19	.00	.00	100.00	
(2)	.00	.00	.00	.05	.00	.05	.00	.00	.00	.91	2.40	.32	.05	.00	.05	.00	.00	3.81	

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	1	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
C-3	16	17	15	34	31	45	37	46	57	41	39	36	30	26	31	23	0	524	
(1)	.72	.77	.68	1.54	1.40	2.04	1.68	2.08	2.58	1.86	1.77	1.63	1.36	1.18	1.40	1.04	.00	23.74	
(2)	.72	.77	.68	1.54	1.40	2.04	1.68	2.08	2.58	1.86	1.77	1.63	1.36	1.18	1.40	1.04	.00	23.74	
4-7	33	45	45	73	81	31	17	31	94	229	236	91	53	33	17	27	0	1136	
(1)	1.50	2.04	2.04	3.31	3.67	1.40	.77	1.40	4.26	10.38	10.69	4.12	2.40	1.50	.77	1.22	.00	51.47	
(2)	1.50	2.04	2.04	3.31	3.67	1.40	.77	1.40	4.26	10.38	10.69	4.12	2.40	1.50	.77	1.22	.00	51.47	
8-12	10	16	7	3	13	2	3	1	55	250	75	22	18	1	8	5	0	489	
(1)	.45	.72	.32	.14	.59	.09	.14	.05	2.49	11.33	3.40	1.00	.82	.05	.36	.23	.00	22.16	
(2)	.45	.72	.32	.14	.59	.09	.14	.05	2.49	11.33	3.40	1.00	.82	.05	.36	.23	.00	22.16	
13-18	16	15	7	2	1	0	0	0	3	6	0	0	1	0	0	6	0	57	
(1)	.72	.68	.32	.09	.05	.00	.00	.00	.14	.27	.00	.00	.05	.00	.00	.27	.00	2.58	
(2)	.72	.68	.32	.09	.05	.00	.00	.00	.14	.27	.00	.00	.05	.00	.00	.27	.00	2.58	
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	75	93	74	112	126	78	57	78	209	526	351	149	102	60	56	61	0	2207	
(1)	3.40	4.21	3.35	5.07	5.71	3.53	2.58	3.53	9.47	23.83	15.90	6.75	4.62	2.72	2.54	2.76	.00	100.00	
(2)	3.40	4.21	3.35	5.07	5.71	3.53	2.58	3.53	9.47	23.83	15.90	6.75	4.62	2.72	2.54	2.76	.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 (continued)

PILGRIM OCT96-DEC96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS A						CLASS FREQUENCY (PERCENT) = 7.76											
		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	2	4	0	1	0	0	0	0	7
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	1.17	2.34	.00	.58	.00	.00	.00	.00	4.09
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.18	.00	.05	.00	.00	.00	.00	.32
4-7		9	7	1	6	5	1	0	0	2	7	7	2	16	17	18	15	0	113
(1)		5.26	4.09	.58	3.51	2.92	.58	.00	.00	1.17	4.09	4.09	1.17	9.36	9.94	10.53	8.77	.00	66.08
(2)		.41	.32	.05	.27	.23	.05	.00	.00	.09	.32	.32	.09	.73	.77	.82	.68	.00	5.12
8-12		8	1	0	2	2	0	0	0	5	1	2	2	20	2	4	2	0	51
(1)		4.68	.58	.00	1.17	1.17	.00	.00	.00	2.92	.58	1.17	1.17	11.70	1.17	2.34	1.17	.00	29.82
(2)		.36	.05	.00	.09	.09	.00	.00	.00	.23	.05	.09	.09	.91	.09	.18	.09	.00	2.31
13-18		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
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		17	8	1	8	7	1	0	0	7	10	13	4	37	19	22	17	0	171
(1)		9.94	4.68	.58	4.68	4.09	.58	.00	.00	4.09	5.85	7.60	2.34	21.64	11.11	12.87	9.94	.00	100.00
(2)		.77	.36	.05	.36	.32	.05	.00	.00	.32	.45	.59	.18	1.68	.86	1.00	.77	.00	7.76

33.0 FT WIND DATA		STABILITY CLASS B						CLASS FREQUENCY (PERCENT) = 3.08											
		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	0	2	0	1	0	2	2	0	0	0	8
(1)		.00	.00	.00	.00	.00	.00	1.47	.00	2.94	.00	1.47	.00	2.94	2.94	.00	.00	.00	11.76
(2)		.00	.00	.00	.00	.00	.00	.05	.00	.09	.00	.05	.00	.09	.09	.00	.00	.00	.36
4-7		0	4	1	4	3	2	0	0	3	1	4	6	2	1	3	4	0	38
(1)		.00	5.88	1.47	5.88	4.41	2.94	.00	.00	4.41	1.47	5.88	8.82	2.94	1.47	4.41	5.88	.00	55.88
(2)		.00	.18	.05	.18	.14	.09	.00	.00	.14	.05	.18	.27	.09	.05	.14	.18	.00	1.72
8-12		1	0	0	1	1	0	0	0	0	0	1	3	7	2	1	3	0	20
(1)		1.47	.00	.00	1.47	1.47	.00	.00	.00	.00	.00	1.47	4.41	10.29	2.94	1.47	4.41	.00	29.41
(2)		.05	.00	.00	.05	.05	.00	.00	.00	.00	.00	.05	.14	.32	.09	.05	.14	.00	.91
13-18		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2
(1)		.00	.00	.00	.00	.00	.00	.00	.00	1.47	.00	.00	.00	1.47	.00	.00	.00	.00	2.94
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.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		1	4	1	5	4	2	1	0	6	1	6	9	12	5	4	7	0	68
(1)		1.47	5.88	1.47	7.35	5.88	2.94	1.47	.00	8.82	1.47	8.82	13.24	17.65	7.35	5.88	10.29	.00	100.00
(2)		.05	.18	.05	.23	.18	.09	.05	.00	.27	.05	.27	.41	.54	.23	.18	.32	.00	3.08

(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 (continued)

PILGRIM OCT96-DEC96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C						CLASS FREQUENCY (PERCENT) = 3.76										VREL	TOTAL	
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM												
		SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW									
CALM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	2	1	0	0	2	1	0	0	0	7	
(1)		.00	.00	1.20	.00	.00	.00	.00	.00	2.41	1.20	.00	.00	2.41	1.20	.00	.00	.00	8.43	
(2)		.00	.00	.05	.00	.00	.00	.00	.00	.09	.05	.00	.00	.09	.05	.00	.00	.00	.32	
4-7		1	3	2	4	5	0	1	2	2	2	6	5	9	7	1	2	0	52	
(1)		1.20	3.61	2.41	4.82	6.02	.00	1.20	2.41	2.41	2.41	7.23	6.02	10.84	8.43	1.20	2.41	.00	62.65	
(2)		.05	.14	.09	.18	.23	.00	.05	.09	.09	.09	.27	.23	.41	.32	.05	.09	.00	2.36	
8-12		1	0	0	1	2	0	0	0	1	4	1	2	7	0	0	2	0	21	
(1)		1.20	.00	.00	1.20	2.41	.00	.00	.00	1.20	4.82	1.20	2.41	8.43	.00	.00	2.41	.00	25.30	
(2)		.05	.00	.00	.05	.09	.00	.00	.00	.05	.18	.05	.09	.32	.00	.00	.09	.00	.95	
13-18		0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	
(1)		.00	.00	.00	.00	.00	.00	.00	.00	3.61	.00	.00	.00	.00	.00	.00	.00	.00	3.61	
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.14	
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	3	3	5	7	0	1	2	6	8	8	7	16	9	2	4	0	83	
(1)		2.41	3.61	3.61	6.02	8.43	.00	1.20	2.41	7.23	9.64	9.64	8.43	19.28	10.84	2.41	4.82	.00	100.00	
(2)		.09	.14	.14	.23	.32	.00	.05	.09	.27	.36	.36	.32	.73	.41	.09	.18	.00	3.76	

33.0 FT WIND DATA		STABILITY CLASS D						CLASS FREQUENCY (PERCENT) = 39.27												VREL	TOTAL
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM													
		SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW										
CALM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	5	5	7	5	8	6	5	4	7	3	4	4	1	3	0	68		
(1)		.00	.12	.58	.58	.81	.58	.92	.69	.58	.46	.81	.35	.46	.46	.12	.35	.00	7.85		
(2)		.00	.05	.23	.23	.32	.23	.36	.27	.23	.18	.32	.14	.18	.18	.05	.14	.00	3.08		
4-7		10	20	12	20	25	15	21	24	34	29	24	33	31	27	21	10	0	356		
(1)		1.15	2.31	1.39	2.31	2.89	1.73	2.42	2.77	3.93	3.35	2.77	3.81	3.58	3.12	2.42	1.15	.00	41.11		
(2)		.45	.91	.54	.91	1.13	.68	.95	1.09	1.54	1.32	1.09	1.50	1.41	1.22	.95	.45	.00	16.15		
8-12		21	21	53	10	15	3	3	15	23	11	13	20	36	26	38	20	0	328		
(1)		2.42	2.42	6.12	1.15	1.73	.35	.35	1.73	2.66	1.27	1.50	2.31	4.16	3.00	4.39	2.31	.00	37.88		
(2)		.95	.95	2.40	.45	.68	.14	.14	.68	1.04	.50	.59	.91	1.63	1.18	1.72	.91	.00	14.88		
13-18		5	1	7	19	14	0	0	19	9	9	2	0	4	1	1	3	0	94		
(1)		.58	.12	.81	2.19	1.62	.00	.00	2.19	1.04	1.04	.23	.00	.46	.12	.12	.35	.00	10.85		
(2)		.23	.05	.32	.86	.63	.00	.00	.86	.41	.41	.09	.00	.18	.05	.05	.14	.00	4.26		
19-24		0	5	4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	18		
(1)		.00	.58	.46	1.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.08		
(2)		.00	.23	.18	.41	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.82		
GT 24		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
(1)		.00	.00	.00	.23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23		
(2)		.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09		
ALL SPEEDS		36	48	81	65	61	23	32	64	71	53	46	56	75	58	61	36	0	866		
(1)		4.16	5.54	9.35	7.51	7.04	2.66	3.70	7.39	8.20	6.12	5.31	6.47	8.66	6.70	7.04	4.16	.00	100.00		
(2)		1.63	2.18	3.67	2.95	2.77	1.04	1.45	2.90	3.22	2.40	2.09	2.54	3.40	2.63	2.77	1.63	.00	39.27		

(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 (continued)

PILGRIM OCT96-DEC96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS E						CLASS FREQUENCY (PERCENT) = 36.51													
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM						SW	WSW	W	WNW	NW	NNW	VREL	TOTAL
		SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VREL	TOTAL								
CALM		0	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	.00	
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
C-3		0	3	5	5	8	9	17	20	13	16	12	14	9	4	1	0	0	0	136	
(1)		.00	.37	.62	.62	.99	1.12	2.11	2.48	1.61	1.99	1.49	1.74	1.12	.50	.12	.00	.00	.00	16.89	
(2)		.00	.14	.23	.23	.36	.41	.77	.91	.59	.73	.54	.63	.41	.18	.05	.00	.00	.00	6.17	
4-7		1	9	4	5	11	2	14	34	74	62	47	114	57	31	20	9	0	0	494	
(1)		.12	1.12	.50	.62	1.37	.25	1.74	4.22	9.19	7.70	5.84	14.16	7.08	3.85	2.48	1.12	.00	.00	61.37	
(2)		.05	.41	.18	.23	.50	.09	.63	1.54	3.36	2.81	2.13	5.17	2.59	1.41	.91	.41	.00	.00	22.40	
8-12		4	0	0	3	1	1	2	16	27	33	10	18	20	7	6	3	0	0	151	
(1)		.50	.00	.00	.37	.12	.12	.25	1.99	3.35	4.10	1.24	2.24	2.48	.87	.75	.37	.00	.00	18.76	
(2)		.18	.00	.00	.14	.05	.05	.09	.73	1.22	1.50	.45	.82	.91	.32	.27	.14	.00	.00	6.85	
13-18		0	0	1	2	2	1	1	9	2	1	2	0	0	1	1	0	0	0	23	
(1)		.00	.00	.12	.25	.25	.12	.12	1.12	.25	.12	.25	.00	.00	.12	.12	.00	.00	.00	2.86	
(2)		.30	.00	.05	.09	.09	.05	.05	.41	.09	.05	.09	.00	.00	.05	.05	.00	.00	.00	1.04	
19-24		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.05	.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	0	
(1)		.00	.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	.00	
ALL SPEEDS		5	12	10	15	22	13	34	79	117	112	71	146	86	43	28	12	0	0	805	
(1)		.62	1.49	1.24	1.86	2.73	1.61	4.22	9.61	14.53	13.91	8.82	18.14	10.68	5.34	3.48	1.49	.00	.00	100.00	
(2)		.21	.54	.45	.68	1.00	.59	1.54	3.58	5.31	5.08	3.22	6.62	3.90	1.95	1.27	.54	.00	.00	36.51	

33.0 FT WIND DATA		STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 8.57													
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM						SW	WSW	W	WNW	NW	NNW	VREL	TOTAL
		SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VREL	TOTAL								
CALM		0	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	.00	
(2)		.00	.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	1	1	8	20	19	15	10	7	1	0	0	0	0	82	
(1)		.00	.00	.00	.00	.00	.53	.53	4.23	10.58	10.05	7.94	5.29	3.70	.53	.00	.00	.00	.00	43.39	
(2)		.00	.00	.00	.00	.00	.05	.05	.36	.91	.86	.68	.45	.32	.05	.00	.00	.00	.00	3.72	
4-7		0	0	0	0	0	1	0	0	2	13	55	15	5	10	1	1	0	0	103	
(1)		.00	.00	.00	.00	.00	.53	.00	.00	1.06	6.88	29.10	7.94	2.65	5.29	.53	.53	.00	.00	54.50	
(2)		.00	.00	.00	.00	.00	.05	.00	.00	.09	.59	2.49	.68	.23	.45	.05	.05	.00	.00	4.67	
8-12		0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	4	
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.53	1.59	.00	.00	.00	.00	.00	.00	.00	2.12	
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.00	.00	.00	.00	.00	.00	.00	.18	
13-18		0	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	.00	
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
19-24		0	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	.00	
(2)		.00	.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	0	
(1)		.00	.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	.00	
ALL SPEEDS		0	0	0	0	0	2	1	8	22	33	73	25	12	11	1	1	0	0	189	
(1)		.00	.00	.00	.00	.00	1.06	.53	4.23	11.64	17.46	38.62	13.23	6.35	5.82	.53	.53	.00	.00	100.00	
(2)		.00	.00	.00	.00	.00	.09	.05	.36	1.00	1.50	3.31	1.13	.54	.50	.05	.05	.00	.00	8.57	

(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 (continued)

PILGRIM OCT96-DEC96 MBT DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G						CLASS FREQUENCY (PERCENT) = 1.04												
		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	4.35	.00	.00	.00	.00	.00	.00	.00	4.35	
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	
4-7		0	0	0	0	0	0	0	0	0	0	17	5	0	0	0	0	0	22	
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	73.91	21.74	.00	.00	.00	.00	.00	95.65	
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.23	.00	.00	.00	.00	.00	1.00	
8-12		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	
13-18		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	
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	0	0	0	0	0	0	0	0	1	17	5	0	0	0	0	0	23	
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	4.35	73.91	21.74	.00	.00	.00	.00	.00	100.00	
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.77	.23	.00	.00	.00	.00	.00	1.04	

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	VREL	TOTAL	
CALM	0	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	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
C-3	0	4	11	10	15	15	27	34	40	44	40	27	23	13	3	3	0	0	309	
(1)	.00	.18	.50	.45	.68	.68	1.22	1.54	1.81	2.00	1.81	1.22	1.04	.59	.14	.14	.00	14.01		
(2)	.00	.18	.50	.45	.68	.68	1.22	1.54	1.81	2.00	1.81	1.22	1.04	.59	.14	.14	.00	14.01		
4-7	21	43	20	39	49	21	36	60	117	114	160	180	120	93	64	41	0	1178		
(1)	.95	1.95	.91	1.77	2.22	.95	1.63	2.72	5.31	5.17	7.26	8.16	5.44	4.22	2.90	1.86	.00	53.42		
(2)	.95	1.95	.91	1.77	2.22	.95	1.63	2.72	5.31	5.17	7.26	8.16	5.44	4.22	2.90	1.86	.00	53.42		
8-12	35	22	53	17	21	4	5	31	56	50	30	45	90	37	49	30	0	575		
(1)	1.59	1.00	2.40	.77	.95	.18	.23	1.41	2.54	2.27	1.36	2.04	4.08	1.68	2.22	1.36	.00	26.08		
(2)	1.59	1.00	2.40	.77	.95	.18	.23	1.41	2.54	2.27	1.36	2.04	4.08	1.68	2.22	1.36	.00	26.08		
13-18	5	1	8	21	16	1	1	28	15	10	4	0	5	2	2	3	0	122		
(1)	.23	.05	.36	.95	.73	.05	.05	1.27	.68	.45	.18	.00	.23	.09	.09	.14	.00	5.53		
(2)	.23	.05	.36	.95	.73	.05	.05	1.27	.68	.45	.18	.00	.23	.09	.09	.14	.00	5.53		
19-24	0	5	4	9	0	0	0	0	1	0	0	0	0	0	0	0	0	19		
(1)	.00	.23	.18	.41	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.86		
(2)	.00	.23	.18	.41	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.86		
GT 24	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
(1)	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09		
(2)	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09		
ALL SPEEDS	61	75	96	98	101	41	69	153	229	218	234	252	238	145	118	77	0	2205		
(1)	2.77	3.40	4.35	4.44	4.58	1.86	3.13	6.94	10.39	9.89	10.61	11.43	10.79	6.58	5.35	3.49	.00	100.00		
(2)	2.77	3.40	4.35	4.44	4.58	1.86	3.13	6.94	10.39	9.89	10.61	11.43	10.79	6.58	5.35	3.49	.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 4B
Distributions of Wind Directions and Speeds
for the 220-ft Level of the 220-ft Tower

PILGRIM JUL96-SEP96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS A								CLASS FREQUENCY (PERCENT) = 9.65									
										WIND DIRECTION FROM									
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VREL	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	8	2	3	1	2	0	0	1	0	2	0	1	2	1	1	0	25
(1)		.47	3.76	.94	1.41	.47	.94	.00	.00	.47	.00	.94	.00	.47	.94	.47	.47	.00	11.74
(2)		.05	.36	.09	.14	.05	.09	.00	.00	.05	.00	.09	.00	.05	.09	.05	.05	.00	1.13
8-12		6	6	8	2	3	3	8	0	5	22	13	3	8	5	1	4	0	97
(1)		2.82	2.82	3.76	.94	1.41	1.41	3.76	.00	2.35	10.33	6.10	1.41	3.76	2.35	.47	1.88	.00	45.54
(2)		.27	.27	.36	.09	.14	.14	.36	.00	.23	1.00	.59	.14	.36	.23	.05	.18	.00	4.40
13-18		5	0	0	0	2	0	1	0	17	22	4	3	4	4	2	5	0	69
(1)		2.35	.00	.00	.00	.94	.00	.47	.00	7.98	10.33	1.88	1.41	1.88	1.88	.94	2.35	.00	32.39
(2)		.23	.00	.00	.00	.09	.00	.05	.00	.77	1.00	.18	.14	.18	.18	.09	.23	.00	3.13
19-24		0	0	0	0	0	0	0	0	1	5	4	0	4	5	0	3	0	22
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.47	2.35	1.88	.00	1.88	2.35	.00	1.41	.00	10.33
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.05	.23	.18	.00	.18	.23	.00	.14	.00	1.00
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		12	14	10	5	6	5	9	0	24	49	23	6	17	16	4	13	0	213
(1)		5.63	6.57	4.69	2.35	2.82	2.35	4.23	.00	11.27	23.00	10.80	2.82	7.98	7.51	1.88	6.10	.00	100.00
(2)		.54	.63	.45	.23	.27	.23	.41	.00	1.09	2.22	1.04	.27	.77	.72	.18	.59	.00	9.65

220.0 FT WIND DATA		STABILITY CLASS B								CLASS FREQUENCY (PERCENT) = 4.21									
										WIND DIRECTION FROM									
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VREL	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	3	1	1	3	0	0	1	1	2	1	3	4	0	0	0	0	21
(1)		1.08	3.23	1.08	1.08	3.23	.00	.00	1.08	1.08	2.15	1.08	3.23	4.30	.00	.00	.00	.00	22.58
(2)		.05	.14	.05	.05	.14	.00	.00	.05	.05	.09	.05	.14	.18	.00	.00	.00	.00	.95
8-12		0	0	0	0	0	4	1	0	2	5	6	7	6	0	1	1	0	33
(1)		.00	.00	.00	.00	.00	4.30	1.08	.00	2.15	5.38	6.45	7.53	6.45	.00	1.08	1.08	.00	35.48
(2)		.00	.00	.00	.00	.00	.18	.05	.00	.09	.23	.27	.32	.27	.00	.05	.05	.00	1.50
13-18		0	0	0	0	2	1	1	0	4	12	7	0	1	0	2	0	0	30
(1)		.00	.00	.00	.00	2.15	1.08	1.08	.00	4.30	12.90	7.53	.00	1.08	.00	2.15	.00	.00	32.26
(2)		.00	.00	.00	.00	.09	.05	.05	.00	.18	.54	.32	.00	.05	.00	.09	.00	.00	1.36
19-24		0	0	0	0	0	0	0	0	3	2	1	0	1	1	0	1	0	9
(1)		.00	.00	.00	.00	.00	.00	.00	.00	3.23	2.15	1.08	.00	1.08	1.08	.00	1.08	.00	9.68
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.14	.09	.05	.00	.05	.05	.00	.05	.00	.41
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	3	1	1	5	5	2	1	10	21	15	10	12	1	3	2	0	93
(1)		1.08	3.23	1.08	1.08	5.38	5.38	2.15	1.08	10.75	22.58	16.13	10.75	12.90	1.08	3.23	2.15	.00	100.00
(2)		.05	.14	.05	.05	.23	.23	.09	.05	.45	.95	.68	.45	.54	.05	.14	.09	.00	4.21

(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 4B (continued)

PILGRIM JUL96-SEP96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C						CLASS FREQUENCY (PERCENT) = 4.53										TOTAL
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VREL	
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	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.00	.00	.00	.00	.00	.00	1.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
4-7	0	1	1	1	8	4	0	0	1	2	1	0	2	3	2	2	0	28
(1)	.00	1.00	1.00	1.00	8.00	4.00	.00	.00	1.00	2.00	1.00	.00	2.00	3.00	2.00	2.00	.00	28.00
(2)	.00	.05	.05	.05	.36	.18	.00	.00	.05	.09	.05	.00	.09	.14	.09	.09	.00	1.27
8-12	0	1	0	0	3	5	4	0	3	5	5	1	0	0	0	2	0	29
(1)	.00	1.00	.00	.00	3.00	5.00	4.00	.00	3.00	5.00	5.00	1.00	.00	.00	.00	2.00	.00	29.00
(2)	.00	.05	.00	.00	.14	.23	.18	.00	.14	.23	.23	.05	.00	.00	.00	.09	.00	1.31
13-18	4	0	0	0	0	1	0	1	4	5	5	1	2	3	0	0	0	26
(1)	4.00	.00	.00	.00	.00	1.00	.00	1.00	4.00	5.00	5.00	1.00	2.00	3.00	.00	.00	.00	26.00
(2)	.18	.00	.00	.00	.00	.05	.00	.05	.18	.23	.23	.05	.09	.14	.00	.00	.00	1.18
19-24	0	0	0	0	0	1	0	0	2	2	0	0	3	1	1	0	0	10
(1)	.00	.00	.00	.00	.00	1.00	.00	.00	2.00	2.00	.00	.00	3.00	1.00	1.00	.00	.00	10.00
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.09	.09	.00	.00	.14	.05	.05	.00	.00	.45
GT 24	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
(1)	3.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.00	.00	.00	.00	.00	6.00
(2)	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.27
ALL SPEEDS	7	2	1	1	11	11	4	1	10	14	11	3	10	7	3	4	0	100
(1)	7.00	2.00	1.00	1.00	11.00	11.00	4.00	1.00	10.00	14.00	11.00	3.00	10.00	7.00	3.00	4.00	.00	100.00
(2)	.32	.09	.05	.05	.50	.50	.18	.05	.45	.63	.50	.14	.45	.32	.14	.18	.00	4.53

220.0 FT WIND DATA		STABILITY CLASS D						CLASS FREQUENCY (PERCENT) = 37.02										TOTAL
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VREL	
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	3	1	0	0	0	2	3	5	3	2	1	1	0	21
(1)	.00	.00	.00	.00	.37	.12	.00	.00	.00	.24	.37	.61	.37	.24	.12	.12	.00	2.57
(2)	.00	.00	.00	.00	.14	.05	.00	.00	.00	.09	.14	.23	.14	.09	.05	.05	.00	.95
4-7	4	9	10	6	13	19	15	5	13	17	13	8	1	6	4	9	0	152
(1)	.49	1.10	1.22	.73	1.59	2.33	1.84	.61	1.59	2.08	1.59	.98	.12	.73	.49	1.10	.00	18.60
(2)	.18	.41	.45	.27	.59	.86	.68	.23	.59	.77	.59	.36	.05	.27	.18	.41	.00	6.89
8-12	7	0	9	9	13	20	20	9	28	37	21	13	13	3	11	15	0	236
(1)	.86	.98	1.10	1.10	1.59	2.45	2.45	1.10	3.43	4.53	2.57	1.59	1.59	.37	1.35	1.84	.00	28.89
(2)	.32	.36	.41	.41	.59	.91	.91	.41	1.27	1.68	.95	.59	.59	.14	.50	.68	.00	10.69
13-18	10	14	14	3	10	7	3	4	17	60	30	8	18	4	2	6	0	210
(1)	1.22	1.71	1.71	.37	1.22	.86	.37	.49	2.08	7.34	3.67	.98	2.20	.49	.24	.73	.00	25.70
(2)	.45	.63	.63	.14	.45	.32	.14	.18	.77	2.72	1.36	.36	.82	.18	.09	.27	.00	9.52
19-24	2	6	4	3	12	2	2	0	6	55	14	4	1	0	1	3	0	115
(1)	.24	.73	.49	.37	1.47	.24	.24	.00	.73	6.73	1.71	.49	.12	.00	.12	.37	.00	14.08
(2)	.09	.27	.18	.14	.54	.09	.09	.00	.27	2.49	.63	.18	.05	.00	.05	.14	.00	5.21
GT 24	13	11	6	7	6	0	2	3	4	9	1	2	4	1	0	14	0	83
(1)	1.59	1.35	.73	.86	.73	.00	.24	.37	.49	1.10	.12	.24	.49	.12	.00	1.71	.00	10.16
(2)	.59	.50	.27	.32	.27	.00	.09	.14	.18	.41	.05	.09	.18	.05	.00	.63	.00	3.76
ALL SPEEDS	36	48	43	28	57	49	42	21	68	180	82	40	40	16	19	48	0	817
(1)	4.41	5.88	5.26	3.43	6.98	6.00	5.14	2.57	8.32	22.03	10.04	4.90	4.90	1.96	2.33	5.88	.00	100.00
(2)	1.63	2.17	1.95	1.27	2.58	2.22	1.90	.95	3.08	8.16	3.72	1.81	1.81	.72	.86	2.17	.00	37.02

(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 4B (continued)

PILGRIM JUL96-SEP96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA			STABILITY CLASS E					CLASS FREQUENCY (PERCENT) = 28.68													
			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	2	1	2	4	5	2	3	2	0	2	1	1	0	0	0	25			
(1)	.00	.00	.32	.16	.32	.63	.79	.32	.47	.32	.00	.32	.16	.16	.00	.00	.00	3.95			
(2)	.00	.00	.09	.05	.09	.18	.23	.09	.14	.09	.00	.09	.05	.05	.00	.00	.00	1.13			
4-7	1	2	1	7	11	26	9	9	13	8	2	4	5	3	2	1	0	104			
(1)	.16	.32	.16	1.11	1.74	4.11	1.42	1.42	2.05	1.26	.32	.63	.79	.47	.32	.16	.00	16.43			
(2)	.05	.09	.05	.32	.50	1.18	.41	.41	.59	.36	.09	.18	.23	.14	.09	.05	.00	4.71			
8-12	6	8	3	1	7	13	22	10	16	9	12	9	8	2	7	8	0	141			
(1)	.95	1.26	.47	.16	1.11	2.05	3.48	1.58	2.53	1.42	1.90	1.42	1.26	.32	1.11	1.26	.00	22.27			
(2)	.27	.36	.14	.05	.32	.59	1.00	.45	.72	.41	.54	.41	.36	.09	.32	.36	.00	6.39			
13-18	1	2	0	0	9	2	4	12	17	31	39	27	20	10	5	2	0	181			
(1)	.16	.32	.00	.00	1.42	.32	.63	1.90	2.69	4.90	6.16	4.27	3.16	1.58	.79	.32	.00	28.59			
(2)	.05	.09	.00	.00	.41	.09	.18	.54	.77	1.40	1.77	1.22	.91	.45	.23	.09	.00	8.20			
19-24	3	3	0	0	0	0	0	0	7	65	30	6	17	7	4	2	0	144			
(1)	.47	.47	.00	.00	.00	.00	.00	.00	1.11	10.27	4.74	.95	2.69	1.11	.63	.32	.00	22.75			
(2)	.14	.14	.00	.00	.00	.00	.00	.00	.32	2.95	1.36	.27	.77	.32	.18	.09	.00	6.52			
GT 24	3	3	0	0	0	0	0	0	2	5	0	2	5	2	7	9	0	38			
(1)	.47	.47	.00	.00	.00	.00	.00	.00	.32	.79	.00	.32	.79	.32	1.11	1.42	.00	6.00			
(2)	.14	.14	.00	.00	.00	.00	.00	.00	.09	.23	.00	.09	.23	.09	.32	.41	.00	1.72			
ALL SPEEDS	14	18	6	9	29	45	40	33	58	120	83	50	56	25	25	22	0	633			
(1)	2.21	2.84	.95	1.42	4.58	7.11	6.32	5.21	9.16	18.96	13.11	7.90	8.05	3.95	3.95	3.48	.00	100.00			
(2)	.63	.82	.27	.41	1.31	2.04	1.81	1.50	2.63	5.44	3.76	2.27	2.54	1.13	1.13	1.00	.00	28.68			

220.0 FT WIND DATA			STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 12.10											
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	1	0	2	0	4	2	0	1	0	2	0	0	0	12		
(1)	.00	.00	.00	.00	.37	.00	.75	.00	1.50	.75	.00	.37	.00	.75	.00	.00	.00	4.49		
(2)	.00	.00	.00	.00	.05	.00	.09	.00	.18	.09	.00	.05	.00	.09	.00	.00	.00	.54		
4-7	0	0	1	0	4	0	4	6	6	5	0	1	0	2	0	0	0	29		
(1)	.00	.00	.37	.00	1.50	.00	1.50	2.25	2.25	1.87	.00	.37	.00	.75	.00	.00	.00	10.86		
(2)	.00	.00	.05	.00	.18	.00	.18	.27	.27	.23	.00	.05	.00	.09	.00	.00	.00	1.31		
8-12	0	0	0	1	0	5	4	3	5	9	8	10	6	0	3	3	0	57		
(1)	.00	.00	.00	.37	.00	1.87	1.50	1.12	1.87	3.37	3.00	3.75	2.25	.00	1.12	1.12	.00	21.35		
(2)	.00	.00	.00	.05	.00	.23	.18	.14	.23	.41	.36	.45	.27	.00	.14	.14	.00	2.58		
13-18	2	0	0	0	0	0	0	2	9	11	25	26	28	9	4	3	0	119		
(1)	.75	.00	.00	.00	.00	.00	.00	.75	3.37	4.12	9.36	9.74	10.49	3.37	1.50	1.12	.00	44.57		
(2)	.09	.00	.00	.00	.00	.00	.00	.09	.41	.50	1.13	1.18	1.27	.41	.18	.14	.00	5.39		
19-24	2	0	0	0	0	0	0	0	0	16	23	5	0	1	1	1	0	49		
(1)	.75	.00	.00	.00	.00	.00	.00	.00	.00	5.99	8.61	1.87	.00	.37	.37	.37	.00	18.35		
(2)	.09	.00	.00	.00	.00	.00	.00	.00	.00	.72	1.04	.23	.00	.05	.05	.05	.00	2.22		
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	.37	.00	.00	.00	.37		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05		
ALL SPEEDS	4	0	1	1	5	5	10	11	24	43	56	43	34	15	8	7	0	267		
(1)	1.50	.00	.37	.37	1.87	1.87	3.75	4.12	8.99	16.10	20.97	16.10	12.73	5.62	3.00	2.62	.00	100.00		
(2)	.18	.00	.05	.05	.23	.23	.45	.50	1.09	1.95	2.54	1.95	1.54	.68	.36	.32	.00	12.10		

(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 4B (continued)

PILGRIM JUL96-SEP96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G						CLASS FREQUENCY (PERCENT) = 3.85															
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM																TOTAL
							SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL						
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	0	0	1	1	0	0	1	0	0	0	4					
(1)	.00	.00	.00	.00	.00	.00	1.19	.00	.00	1.19	1.19	.00	.00	1.19	.00	.00	.00	4.76					
(2)	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.05	.00	.00	.05	.00	.00	.00	.18					
4-7	0	0	0	0	0	0	1	1	2	1	5	3	0	0	0	0	0	13					
(1)	.00	.00	.00	.00	.00	.00	1.19	1.19	2.38	1.19	5.95	3.57	.00	.00	.00	.00	.00	15.48					
(2)	.00	.00	.00	.00	.00	.00	.05	.05	.09	.05	.23	.14	.00	.00	.00	.00	.00	.59					
8-12	0	0	0	0	0	0	0	3	5	2	6	8	5	0	1	0	0	30					
(1)	.00	.00	.00	.00	.00	.00	.00	3.57	5.95	2.38	7.14	9.52	5.95	.00	1.19	.00	.00	35.71					
(2)	.00	.00	.00	.00	.00	.00	.00	.14	.23	.09	.27	.36	.23	.00	.05	.00	.00	1.36					
13-18	0	0	0	0	0	0	0	0	0	3	14	2	8	2	1	0	0	30					
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.57	16.67	2.38	9.52	2.38	1.19	.00	.00	35.71					
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.63	.09	.36	.09	.05	.00	.00	1.36					
19-24	0	0	0	0	0	0	0	0	0	2	4	1	0	0	0	0	0	7					
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.38	4.76	1.19	.00	.00	.00	.00	.00	8.33					
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.18	.05	.00	.00	.00	.00	.00	.32					
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	0	0	0	0	0	2	4	7	9	30	14	13	3	2	0	0	84					
(1)	.00	.00	.00	.00	.00	.00	2.38	4.76	8.33	10.71	35.71	16.67	15.48	3.57	2.38	.00	.00	100.00					
(2)	.00	.00	.00	.00	.00	.00	.09	.18	.32	.41	1.36	.63	.59	.14	.09	.00	.00	3.85					

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	0	0	2	1	6	5	8	2	7	7	4	9	4	6	1	1	0	63	
(1)	.00	.00	.09	.05	.27	.23	.36	.09	.32	.32	.18	.41	.18	.27	.05	.05	.00	2.85	
(2)	.00	.00	.09	.05	.27	.23	.36	.09	.32	.32	.18	.41	.18	.27	.05	.05	.00	2.85	
4-7	7	23	16	18	40	51	29	22	37	35	24	19	13	16	9	13	0	372	
(1)	.32	1.04	.72	.82	1.81	2.31	1.31	1.00	1.68	1.59	1.09	.86	.59	.72	.41	.59	.00	16.86	
(2)	.32	1.04	.72	.82	1.81	2.31	1.31	1.00	1.68	1.59	1.09	.86	.59	.72	.41	.59	.00	16.86	
8-12	19	23	20	13	26	50	59	25	64	89	71	51	46	10	24	33	0	623	
(1)	.86	1.04	.91	.59	1.18	2.27	2.67	1.13	2.90	4.03	3.22	2.31	2.08	.45	1.09	1.50	.00	28.23	
(2)	.86	1.04	.91	.59	1.18	2.27	2.67	1.13	2.90	4.03	3.22	2.31	2.08	.45	1.09	1.50	.00	28.23	
13-18	22	16	14	3	23	11	9	19	68	144	124	67	81	32	16	16	0	665	
(1)	1.00	.72	.63	.14	1.04	.50	.41	.86	3.08	6.52	5.62	3.04	3.67	1.45	.72	.72	.00	30.13	
(2)	1.00	.72	.63	.14	1.04	.50	.41	.86	3.08	6.52	5.62	3.04	3.67	1.45	.72	.72	.00	30.13	
19-24	7	9	4	3	12	3	2	0	19	147	76	16	26	15	7	10	0	356	
(1)	.32	.41	.18	.14	.54	.14	.09	.00	.86	6.66	3.44	.72	1.18	.68	.32	.45	.00	16.13	
(2)	.32	.41	.18	.14	.54	.14	.09	.00	.86	6.66	3.44	.72	1.18	.68	.32	.45	.00	16.13	
GT 24	19	14	6	7	6	0	2	3	6	14	1	4	12	4	7	23	0	128	
(1)	.86	.63	.27	.32	.27	.00	.09	.14	.27	.63	.05	.18	.54	.18	.32	1.04	.00	5.80	
(2)	.86	.63	.27	.32	.27	.00	.09	.14	.27	.63	.05	.18	.54	.18	.32	1.04	.00	5.80	
ALL SPEEDS	74	85	62	45	113	120	109	71	201	436	300	166	182	83	64	96	0	2207	
(1)	3.35	3.85	2.81	2.04	5.12	5.44	4.94	3.22	9.11	19.76	13.59	7.52	8.25	3.76	2.90	4.35	.00	100.00	
(2)	3.35	3.85	2.81	2.04	5.12	5.44	4.94	3.22	9.11	19.76	13.59	7.52	8.25	3.76	2.90	4.35	.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 4B (continued)

PILGRIM OCT96-DEC96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS A						CLASS FREQUENCY (PERCENT) = 7.76										TOTAL
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	
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	0	0	0	0	0	1	0	0	0	2	6	0	3	3	1	1	0	17
(1)	.00	.00	.00	.00	.00	.58	.00	.00	.00	1.17	3.51	.00	1.75	1.75	.58	.58	.00	9.98
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.00	.09	.27	.00	.14	.14	.05	.05	.00	.77
8-12	1	2	1	5	5	0	0	0	0	4	4	2	8	15	6	5	0	58
(1)	.58	1.17	.58	2.92	2.92	.00	.00	.00	.00	2.34	2.34	1.17	4.68	8.77	3.51	2.92	.00	33.92
(2)	.05	.09	.05	.23	.23	.00	.00	.00	.00	.18	.18	.09	.36	.68	.27	.23	.00	2.63
13-18	5	0	0	2	1	0	0	0	3	2	6	0	10	3	8	12	0	52
(1)	2.92	.00	.00	1.17	.58	.00	.00	.00	1.75	1.17	3.51	.00	5.85	1.75	4.68	7.02	.00	30.41
(2)	.23	.00	.00	.09	.05	.00	.00	.00	.14	.09	.27	.00	.45	.14	.36	.54	.00	2.36
19-24	4	0	0	0	0	0	0	0	1	0	0	1	5	5	1	6	0	23
(1)	2.34	.00	.00	.00	.00	.00	.00	.00	.58	.00	.00	.58	2.92	2.92	.58	3.51	.00	13.45
(2)	.18	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.23	.23	.05	.27	.00	1.04
GT 24	0	0	0	0	2	0	0	0	0	0	0	0	2	7	4	6	0	21
(1)	.00	.00	.00	.00	1.17	.00	.00	.00	.00	.00	.00	.00	1.17	4.09	2.34	3.51	.00	12.28
(2)	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.09	.32	.18	.27	.00	.95
ALL SPEEDS	10	2	1	7	8	1	0	0	4	8	16	3	28	33	20	30	0	171
(1)	5.85	1.17	.58	4.09	4.68	.58	.00	.00	2.34	4.68	9.36	1.75	16.37	19.30	11.70	17.54	.00	100.00
(2)	.45	.09	.05	.32	.36	.05	.00	.00	.18	.36	.73	.14	1.27	1.50	.91	1.36	.00	7.76

220.0 FT WIND DATA		STABILITY CLASS B						CLASS FREQUENCY (PERCENT) = 3.08										TOTAL
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	
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	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.47	.00	.00	.00	.00	.00	1.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
4-7	0	1	0	0	1	0	2	0	1	0	1	2	2	1	2	2	0	15
(1)	.00	1.47	.00	.00	1.47	.00	2.94	.00	1.47	.00	1.47	2.94	2.94	1.47	2.94	2.94	.00	22.06
(2)	.00	.05	.00	.00	.05	.00	.09	.00	.05	.00	.05	.09	.09	.05	.09	.09	.00	.68
8-12	0	3	0	1	3	2	0	0	2	1	3	2	2	2	1	0	0	22
(1)	.00	4.41	.00	1.47	4.41	2.94	.00	.00	2.94	1.47	4.41	2.94	2.94	2.94	1.47	.00	.00	32.35
(2)	.00	.14	.00	.05	.14	.09	.00	.00	.09	.05	.14	.09	.09	.09	.05	.00	.00	1.00
13-18	0	1	0	0	0	0	0	0	0	0	1	4	2	0	2	2	0	12
(1)	.00	1.47	.00	.00	.00	.00	.00	.00	.00	.00	1.47	5.88	2.94	.00	2.94	2.94	.00	17.65
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.18	.09	.00	.09	.09	.00	.54
19-24	0	0	0	0	0	0	0	0	0	0	0	3	3	2	0	1	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.41	4.41	2.94	.00	1.47	.00	13.24
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.14	.09	.00	.05	.00	.41
GT 24	2	0	0	0	1	0	0	0	1	0	0	0	1	1	1	2	0	9
(1)	2.94	.00	.00	.00	1.47	.00	.00	.00	1.47	.00	.00	.00	1.47	1.47	1.47	2.94	.00	13.24
(2)	.09	.00	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.05	.05	.05	.09	.00	.41
ALL SPEEDS	2	5	0	1	5	2	2	0	4	1	5	12	10	6	6	7	0	68
(1)	2.94	7.35	.00	.47	7.35	2.94	2.94	.00	5.88	1.47	7.35	17.65	14.71	8.82	8.82	10.29	.00	100.00
(2)	.09	.23	.00	.05	.23	.09	.09	.00	.18	.05	.23	.54	.45	.27	.27	.32	.00	3.08

(1) = PERCENT OF ALL WIND OBSERVATIONS FOR THIS PERIOD
 (2) = PERCENT OF ALL CALM OBSERVATIONS FOR THIS PERIOD
 C = CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

Table 4B (continued)

PILGRIM OCT96-DEC96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA			STABILITY CLASS C						CLASS FREQUENCY (PERCENT) = 3.76													
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION FROM				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	0	0	0	0
(1)	.00	.00	.00	.00	.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	.00	.00	.00	.00
C-3	0	0	0	0	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	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	0	0	0	1	3	1	0	2	0	3	1	3	1	1	3	0	0	0	0	0	0	19
(1)	.00	.00	.00	1.20	3.61	1.20	.00	2.41	.00	3.61	1.20	3.61	1.20	1.20	3.61	.00	.00	.00	.00	.00	.00	22.89
(2)	.00	.00	.00	.05	.14	.05	.00	.09	.00	.14	.05	.14	.05	.05	.14	.00	.00	.00	.00	.00	.00	.86
8-12	1	3	0	0	2	3	0	1	0	2	1	2	4	3	0	1	0	0	0	0	0	23
(1)	1.20	3.61	.00	.00	2.41	3.61	.00	1.20	.00	2.41	1.20	2.41	4.82	3.61	.00	1.20	.00	1.20	.00	.00	.00	27.71
(2)	.05	.14	.00	.00	.09	.14	.00	.05	.00	.09	.05	.09	.18	.14	.00	.05	.00	.05	.00	.00	.00	1.04
13-18	0	0	0	2	0	0	1	0	1	2	5	2	6	4	2	1	0	0	0	0	0	26
(1)	.00	.00	.00	2.41	.00	.00	1.20	.00	1.20	2.41	6.02	2.41	7.23	4.82	2.41	1.20	.00	1.20	.00	.00	.00	31.33
(2)	.00	.00	.00	.09	.00	.00	.05	.00	.05	.09	.23	.09	.27	.18	.09	.05	.00	.05	.00	.00	.00	1.18
19-24	0	0	0	0	0	0	0	0	1	0	0	1	1	2	0	1	0	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.20	.00	.00	1.20	1.20	2.41	.00	1.20	.00	1.20	.00	.00	.00	7.23
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.05	.09	.00	.05	.00	.05	.00	.00	.00	.27
GT 24	0	0	0	0	2	0	0	0	3	0	0	0	1	1	0	2	0	0	0	0	0	9
(1)	.00	.00	.00	.00	2.41	.00	.00	.00	3.61	.00	.00	.00	1.20	1.20	.00	2.41	.00	1.20	.00	.00	.00	10.84
(2)	.00	.00	.00	.00	.09	.00	.00	.00	.14	.00	.00	.00	.05	.05	.00	.09	.00	.09	.00	.00	.00	.41
ALL SPEEDS	1	3	0	3	7	4	1	3	5	7	7	8	13	11	5	5	0	0	0	0	0	83
(1)	1.20	3.61	.00	3.61	8.43	4.82	1.20	3.61	6.02	8.43	8.43	9.64	15.66	13.25	6.02	6.02	.00	100.00	.00	.00	.00	100.00
(2)	.05	.14	.00	.14	.32	.18	.05	.14	.23	.32	.32	.36	.59	.50	.23	.23	.00	3.76	.00	.00	.00	3.76

220.0 FT WIND DATA			STABILITY CLASS D					CLASS FREQUENCY (PERCENT) = 39.27												
			WIND DIRECTION FROM																	
SPEED (MPH)	N	NNE	NE	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			
(1)	.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			
C-3	0	1	0	0	1	0	2	0	0	0	1	0	0	0	0	0	5			
(1)	.00	.12	.00	.00	.12	.00	.23	.00	.00	.00	.12	.00	.00	.00	.00	.00	.58			
(2)	.00	.05	.00	.00	.05	.00	.09	.00	.00	.00	.05	.00	.00	.00	.00	.00	.23			
4-7	1	1	6	7	8	13	6	4	6	5	8	6	7	4	1	2	85			
(1)	.12	.12	.69	.81	.92	1.50	.69	.46	.69	.58	.92	.69	.81	.46	.12	.23	9.82			
(2)	.05	.05	.27	.32	.36	.59	.27	.18	.27	.23	.36	.27	.32	.18	.05	.09	3.85			
8-12	3	10	5	8	12	12	13	19	15	12	12	6	14	5	2	2	150			
(1)	.25	1.15	.58	.92	1.39	1.39	1.50	2.19	1.73	1.39	1.39	.69	1.62	.58	.23	.23	17.32			
(2)	.14	.45	.23	.36	.54	.54	.59	.86	.68	.54	.54	.27	.63	.23	.09	.09	6.80			
13-18	5	7	9	7	14	3	9	11	16	21	23	21	29	20	21	13	229			
(1)	.58	.81	1.04	.81	1.62	.35	1.04	1.27	1.85	2.42	2.66	2.42	3.35	2.31	2.42	1.50	26.44			
(2)	.23	.32	.41	.32	.63	.14	.41	.50	.73	.95	1.04	.95	1.32	.91	.95	.59	10.39			
19-24	4	8	27	10	4	6	6	12	11	11	1	4	31	17	23	10	185			
(1)	.46	.92	3.12	1.15	.46	.69	.69	1.39	1.27	1.27	.12	.46	3.58	1.96	2.66	1.15	21.36			
(2)	.18	.36	1.22	.45	.18	.27	.27	.54	.50	.50	.05	.18	1.41	.77	1.04	.45	8.39			
GT 24	22	4	24	29	29	2	0	20	6	7	1	2	11	8	25	22	212			
(1)	2.54	.46	2.77	3.35	3.35	.23	.00	2.31	.69	.81	.12	.23	1.27	.92	2.89	2.54	24.48			
(2)	1.00	.18	1.09	1.32	1.32	.09	.00	.91	.27	.32	.05	.09	.50	.36	1.13	1.00	9.61			
ALL SPEEDS	35	31	71	61	78	36	36	66	54	56	46	39	92	54	72	49	866			
(1)	4.04	3.58	8.20	7.04	7.45	4.16	4.16	7.62	6.24	6.47	5.31	4.50	10.62	6.24	8.31	5.66	100.00			
(2)	1.59	1.41	3.22	2.77	3.08	1.63	1.63	2.99	2.45	2.54	2.00	1.77	4.17	2.45	3.27	2.22	39.27			

(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 4B (continued)

PILGRIM OCT96-DEC96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS E						CLASS FREQUENCY (PERCENT) = 36.51											
		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	2	1	2	2	1	2	1	7	2	2	1	0	0	0	17
(1)		.00	.00	.12	.25	.12	.25	.25	.12	.25	.12	.00	.25	.25	.12	.00	.00	.00	2.11
(2)		.00	.00	.05	.09	.05	.09	.09	.05	.09	.05	.00	.09	.09	.05	.00	.00	.00	.77
4-7		0	3	3	4	12	7	6	6	7	3	1	2	8	1	1	1	0	65
(1)		.00	.37	.37	.50	1.49	.87	.75	.75	.87	.37	.12	.25	.99	.12	.12	.12	.00	8.07
(2)		.00	.14	.14	.18	.54	.32	.27	.27	.32	.14	.05	.09	.36	.05	.05	.05	.00	2.95
8-12		1	6	6	4	8	9	7	19	15	29	11	12	22	16	7	3	0	169
(1)		.12	.75	.00	.50	.99		.87	2.36	1.86	3.60	1.37	1.49	2.73	1.99	.87	.37	.00	20.99
(2)		.05	.27	.00	.18	.36		.32	.86	.68	1.32	.50	.54	1.00	.73	.32	.14	.00	7.66
13-18		1	3	1	2	3	1	11	26	36	53	36	34	67	42	26	7	0	349
(1)		.12	.37	.12	.25	.37	.12	1.37	3.23	4.47	6.58	4.47	4.22	8.32	5.22	3.23	.87	.00	43.35
(2)		.05	.14	.05	.09	.14	.05	.50	1.18	1.63	2.40	1.63	1.54	3.04	1.90	1.18	.72	.00	15.83
19-24		2	0	1	4	4	1	1	12	17	31	14	19	20	13	7	8	0	154
(1)		.25	.00	.12	.50	.50	.12	.12	1.49	2.11	3.85	1.74	2.36	2.48	1.61	.87	.99	.00	19.13
(2)		.09	.00	.05	.18	.18	.05	.05	.54	.77	1.41	.63	.86	.91	.59	.32	.36	.00	6.98
GT 24		0	0	1	1	3	1	2	12	1	4	0	0	1	12	8	5	0	51
(1)		.00	.00	.12	.12	.37	.12	.25	1.49	.12	.50	.00	.00	.12	1.49	.99	.62	.00	6.34
(2)		.00	.00	.05	.05	.14	.05	.09	.54	.05	.18	.00	.00	.12	.54	.36	.23	.00	2.31
ALL SPEEDS		4	12	7	17	31	21	29	76	78	121	62	69	120	85	49	24	0	805
(1)		.50	1.49	.87	2.11	3.85	2.61	3.60	9.44	9.69	15.03	7.70	8.57	14.91	10.56	6.09	2.98	.00	170.00
(2)		.18	.54	.32	.77	1.41	.95	1.32	3.45	3.54	5.49	2.81	3.13	5.44	3.85	2.22	1.09	.00	36.51

220.0 FT WIND DATA		STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 8.57													
		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	0		
(1)	.00	.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	.00		
C-3	0	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	.00	.53	.00	.00	.00	.00	.00	.00	.00	.00	.53		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05		
4-7	0	0	2	2	2	9	11	9	3	3	1	5	1	2	0	0	0	0	50		
(1)	.00	.00	1.06	1.06	1.06	4.76	5.82	4.76	1.59	1.59	.53	2.65	.53	1.06	.00	.00	.00	.00	26.46		
(2)	.00	.00	.09	.09	.09	.41	.50	.41	.14	.14	.05	.23	.05	.09	.00	.00	.00	.00	2.27		
8-12	1	0	0	0	2	1	4	4	3	8	9	8	3	11	9	0	0	0	63		
(1)	.53	.00	.00	.00	1.06	.53	2.12	2.12	1.59	4.23	4.76	4.23	1.59	5.82	4.76	.00	.00	.00	33.33		
(2)	.05	.00	.00	.00	.09	.05	.18	.18	.14	.36	.41	.36	.14	.50	.41	.00	.00	.00	2.86		
13-18	1	0	0	0	0	0	0	0	1	2	1	11	15	15	10	6	3	0	65		
(1)	.53	.00	.00	.00	.00	.00	.00	.00	.53	1.06	.53	5.82	7.94	7.94	5.29	3.17	1.59	.00	34.39		
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.05	.09	.05	.50	.68	.68	.45	.27	.14	.00	2.95		
19-24	0	0	0	0	0	0	0	0	0	0	2	3	2	1	1	1	0	0	10		
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.06	1.59	1.06	.53	.53	.53	.00	.00	5.29		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.14	.09	.05	.05	.05	.00	.00	.45		
GT 24	0	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	.00		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
ALL SPEEDS	2	0	2	2	4	10	15	14	9	12	23	31	21	24	16	4	0	0	189		
(1)	1.06	.00	1.06	1.06	2.12	5.29	7.94	7.41	4.76	6.35	12.17	16.40	11.11	12.70	8.47	2.12	.00	.00	100.00		
(2)	.09	.00	.09	.09	.18	.45	.68	.63	.41	.54	1.04	1.41	.95	1.09	.73	.18	.00	.00	8.57		

(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 4B (continued)

PILGRIM OCT96-DEC96 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G						CLASS FREQUENCY (PERCENT) = 1.04										TOTAL
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	
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	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	4.35	.00	4.35	4.35	.00	.00	.00	.00	.00	13.04
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.05	.00	.00	.00	.00	.00	.14
8-12	0	0	0	0	0	0	0	0	0	0	1	2	3	2	3	0	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.35	8.70	13.04	8.70	13.04	.00	.00	47.83
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.14	.09	.14	.00	.00	.50
13-18	0	0	0	0	0	0	0	0	0	0	1	3	2	0	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.35	13.04	8.70	.00	.00	.00	.00	26.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.09	.00	.00	.00	.00	.27
19-24	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.35	8.70	.00	.00	.00	.00	13.04
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.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	0	0	0	0	0	0	0	0	1	0	3	7	7	2	3	0	0	23
(1)	.00	.00	.00	.00	.00	.00	.00	.00	4.35	.00	13.04	30.43	30.43	8.70	13.04	.00	.00	100.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.14	.32	.32	.09	.14	.00	.00	1.04

220.0 FT WIND DATA		STABILITY CLASS ALL						CLASS FREQUENCY (PERCENT) = 100.00										TOTAL
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	
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	1	1	2	2	2	4	1	3	1	1	3	2	1	0	0	0	24
(1)	.00	.05	.05	.09	.09	.09	.18	.05	.14	.05	.05	.14	.09	.05	.00	.00	.00	1.09
(2)	.00	.05	.05	.09	.09	.09	.18	.05	.14	.05	.05	.14	.09	.05	.00	.00	.00	1.09
4-7	1	5	11	14	26	31	25	21	18	16	19	19	22	12	8	6	0	254
(1)	.05	.23	.50	.63	1.18	1.41	1.13	.95	.82	.73	.86	.86	1.00	.54	.36	.27	.00	11.52
(2)	.05	.23	.50	.63	1.18	1.41	1.13	.95	.82	.73	.86	.86	1.00	.54	.36	.27	.00	11.52
8-12	7	24	6	18	32	27	24	43	35	56	41	34	56	54	28	11	0	496
(1)	.32	1.09	.27	.82	1.45	1.22	1.09	1.95	1.59	2.54	1.86	1.54	2.54	2.45	1.27	.50	.00	22.49
(2)	.32	1.09	.27	.82	1.45	1.22	1.09	1.95	1.59	2.54	1.86	1.54	2.54	2.45	1.27	.50	.00	22.49
13-18	12	11	10	13	18	4	21	39	58	79	83	79	131	79	65	38	0	739
(1)	.54	.50	.45	.59	.82	.18	.95	1.72	2.63	3.58	3.76	3.58	5.94	3.58	2.95	1.72	.00	33.51
(2)	.54	.50	.45	.59	.82	.18	.95	1.72	2.63	3.58	3.76	3.58	5.94	3.58	2.95	1.72	.00	33.51
19-24	10	8	28	14	8	7	7	24	30	42	17	32	64	40	32	27	0	390
(1)	.45	.36	1.27	.63	.36	.32	.32	1.09	1.36	1.90	.77	1.45	2.90	1.81	1.45	1.22	.00	17.69
(2)	.45	.36	1.27	.63	.36	.32	.32	1.09	1.36	1.90	.77	1.45	2.90	1.81	1.45	1.22	.00	17.69
GT 24	24	4	25	30	37	3	2	32	11	11	1	2	16	29	38	37	0	362
(1)	1.09	.18	1.13	1.36	1.68	.14	.09	1.45	.50	.50	.05	.09	.73	1.32	1.72	1.68	.00	13.70
(2)	1.09	.18	1.13	1.36	1.68	.14	.09	1.45	.50	.50	.05	.09	.73	1.32	1.72	1.68	.00	13.70
ALL SPEEDS	54	53	81	91	123	74	83	159	155	205	162	169	291	215	171	119	0	2205
(1)	2.45	2.40	3.67	4.13	5.58	3.36	3.76	7.21	7.03	9.30	7.35	7.66	13.20	9.75	7.76	5.40	.00	100.00
(2)	2.45	2.40	3.67	4.13	5.58	3.36	3.76	7.21	7.03	9.30	7.35	7.66	13.20	9.75	7.76	5.40	.00	100.00

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

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

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

5. OFFSITE DOSE CALCULATION MANUAL REVISIONS

The PNPS Offsite Dose Calculation Manual (ODCM) was not revised during the reporting period.

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. Messier memorandum to K.J. Sejkora, "Documentation for Calculation of 3rd and 4th Quarter 1996 JFD Tables for Pilgrim Station", dated February 21, 1997.