



Boston Edison

Pilgrim Nuclear Power Station
Rocky Hill Road
Plymouth, Massachusetts 02360-5599

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

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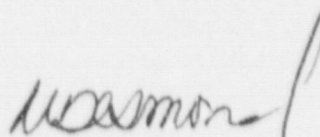
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Subject: SEMI-ANNUAL RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT
INCLUDING METEOROLOGICAL DATA FOR THE PERIOD JULY 1, 1997
THROUGH DECEMBER 31, 1997

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, 1997.

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


Nancy L. Desmond

RLC/dcg/298020

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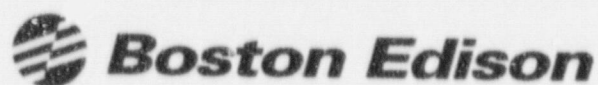
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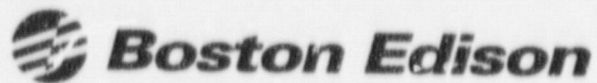


PILGRIM NUCLEAR POWER STATION

Radioactive Effluent and
Waste Disposal Report
Including Meteorological Data

July 01 through December 31, 1997



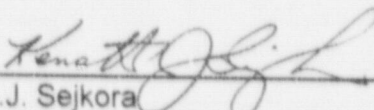


PILGRIM NUCLEAR POWER STATION

RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT
INCLUDING METEOROLOGICAL DATA


JULY 01 THROUGH DECEMBER 31, 1997

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 20 Feb 1998

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Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
July-December 1997

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EXECUTIVE SUMMARY

BOSTON EDISON COMPANY PILGRIM NUCLEAR POWER STATION RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT INCLUDING METEOROLOGICAL DATA JULY 01 THROUGH DECEMBER 31, 1997

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, 1997. 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, reactor building vent, turbine building, and various decontamination facilities, and liquid releases into the discharge canal. Pilgrim Nuclear Power Station was in a refueling outage from mid-February through late April. Activities associated with refueling can affect effluent releases. Noble gas releases tend to decrease since the reactor is not operating, while releases of other gaseous and liquid effluents can increase as systems are worked on, equipment is decontaminated, and additional wastes are processed.

The quantity and volume of radioactive waste which was shipped offsite from PNPS for processing and burial were 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 74 Curies. Releases of radioactive particulates and iodines totaled 0.006 Curies, and tritium releases totaled 24 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 0.01 Curies of fission and activation products, and 5.7 Curies of tritium. No dissolved/entrained noble gases or gross alpha radioactivity were 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 5 cubic meters of solid waste, containing 7.8 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 was about 97%, and 94% for the entire year. The predominant wind direction was from the southwest, which occurred approximately 14% of the time during the reporting period. The predominant stability class was Class E, which occurred about 37% 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, 1998. 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, 40CFR190.10, Subpart B, have been met.

1. INTRODUCTION

This report is issued for the period of July 01 through December 31, 1997 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 gaseous and liquid 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 gaseous and liquid releases for the reporting period are given in the standard NRC Regulatory Guide 1.21 format in Tables 1A, 1B, 1C, 2A, 2B, and supplemental information form. Pilgrim Nuclear Power Station was in a refueling outage from mid-February through late April. Activities associated with refueling can affect effluent releases. Noble gas releases tend to decrease since the reactor is not operating, while releases of other gaseous and liquid effluents can increase as systems are worked on, equipment is decontaminated, and additional wastes are processed.

2.1 Gaseous Effluents

Gaseous radioactivity is released from Pilgrim Station to the atmosphere from the main stack, reactor building vent, turbine building, and various decontamination facilities. 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: 74 Ci, 4.7 μ Ci/sec
- Particulates and iodines with half-life greater than 8 days 0.006 Ci, 0.00038 μ Ci/sec
- Tritium: 24 Ci, 1.5 μ 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, turbine building, and assorted equipment decontamination facilities (e.g., hot machine shop, carbon dioxide pellet decon trailer, plastic media decon trailer, etc.) used during and after the refueling outage. 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 dissolved/entrained gases or gross alpha radioactivity were 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: 706,000 Liters
- Total Dilution Volume: 2,490,000,000 Liters
- Fission/Activation products: 0.01 Ci, 0.000000004 μ Ci/mL
- Tritium: 5.8 Ci, 0.0000023 μ Ci/mL
- Dissolved/entrained noble gases: Not Detected

Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Supplemental Information
July-December 1997

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 $\mu\text{Ci/mL}$ 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 1997	Oct-Dec 1997
1.30E+01	1.10E+01
7.20E+02	1.40E+03
1.90E+02	2.80E+02
5.54E+01	1.27E+02
2.00E+01	2.00E+01
1.18E+06	1.17E+06
None	None
None	None
None	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 1997

Period: Jul-Sep 1997	Period: Oct-Dec 1997	Estimated Total Error
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A. FISSION AND ACTIVATION GASES

Total Release: Ci	3.14E+01	4.22E+01	±22%
Average Release Rate During Period: $\mu\text{Ci/sec}$	3.98E+00	5.35E+00	
Percent of Technical Specification Limit	*	*	

B. IODINES

Total Iodine-131 Release: Ci	3.89E-04	3.64E-04	±20%
Average Release Rate During Period: $\mu\text{Ci/sec}$	4.93E-05	4.61E-05	
Percent of Technical Specification Limit	*	*	

C. PARTICULATES

Total Release: Ci	5.07E-04	5.43E-04	±21%
Average Release Rate During Period: $\mu\text{Ci/sec}$	6.43E-05	6.89E-05	
Percent of Technical Specification Limit	*	*	
Gross Alpha Radioactivity: Ci	NDA	NDA	

D. TRITIUM

Total Release: Ci	1.63E+01	7.97E+00	±20%
Average Release Rate During Period: $\mu\text{Ci/sec}$	2.07E+00	1.01E+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, 1998.

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 1997

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 1997	Oct-Dec 1997	Jul-Sep 1997	Oct-Dec 1997

1. FISSION AND ACTIVATION GASES - Ci

Kr-85m	9.28E+00	1.08E+01	N/A	N/A
Kr-87	NDA	3.84E+00	N/A	N/A
Kr-88	8.62E+00	1.74E+01	N/A	N/A
Xe-131m	NDA	NDA	N/A	N/A
Xe-133	1.35E+01	9.85E+00	N/A	N/A
Xe-135	NDA	3.10E-01	N/A	N/A
Xe-135m	NDA	NDA	N/A	N/A
Xe-137	NDA	NDA	N/A	N/A
Xe-138	NDA	NDA	N/A	N/A
Total for period	3.14E+01	4.22E+01	N/A	N/A

2. IODINES - Ci

I-131	2.26E-04	2.35E-04	N/A	N/A
I-133	7.67E-04	7.39E-04	N/A	N/A
Total for period	9.93E-04	9.74E-04	N/A	N/A

3. PARTICULATES - Ci

Mn-54	NDA	2.37E-05	N/A	N/A
Fe-59	NDA	5.44E-06		
Co-60	NDA	2.35E-05	N/A	N/A
Sr-89	4.89E-05	9.87E-05	N/A	N/A
Sr-90	NDA	NDA	N/A	N/A
Cs-134	NDA	NDA	N/A	N/A
Cs-137	NDA	1.93E-06	N/A	N/A
Ba/La-140	2.08E-04	1.39E-04	N/A	N/A
Total for period	2.57E-04	2.92E-04	N/A	N/A

4. TRITIUM - Ci

H-3	1.21E+00	5.83E-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 $\mu\text{Ci/cc}$
Iodines: 1E-12 $\mu\text{Ci/cc}$
Particulates: 1E-11 $\mu\text{Ci/cc}$

Table 1C
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Ground Level Release
July-December 1997

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 1997	Oct-Dec 1997	Jul-Sep 1997	Oct-Dec 1997

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	NDA	NDA	N/A	N/A
Xe-135m	NDA	NDA	N/A	N/A
Xe-138	NDA	NDA	N/A	N/A
Total for period	NDA	NDA	N/A	N/A

2. IODINES - Ci

I-131	1.63E-04	1.79E-04	N/A	N/A
I-133	1.37E-03	1.27E-03	N/A	N/A
Total for period	1.53E-03	1.40E-03	N/A	N/A

3. PARTICULATES - Ci

Mn-54	NDA	NDA	N/A	N/A
Co-60	2.47E-05	9.59E-06	N/A	N/A
Sr-89	2.08E-04	2.09E-04	N/A	N/A
Sr-90	NDA	NDA	N/A	N/A
Cs-134	NDA	NDA	N/A	N/A
Cs-137	9.19E-06	NDA	N/A	N/A
Ba/La-140	7.83E-06	3.25E-05	N/A	N/A
Total for period	2.50E-04	2.51E-04	N/A	N/A
H-3	1.51E+01	7.39E+00	N/A	N/A

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 $\mu\text{Ci/cc}$
 Iodine: 1E-12 $\mu\text{Ci/cc}$
 Particulates: 1E-11 $\mu\text{Ci/cc}$

Table 2A
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Liquid Effluents - Summation of All Releases
July-December 1997

Period: Jul-Sep 1997	Period: Oct-Dec 1997	Estimated Total Error
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A. FISSION AND ACTIVATION PRODUCTS

Total Release (not including H-3, noble gas, or alpha): Ci	3.05E-03	6.97E-03	±12%
Average Diluted Concentration During Period: $\mu\text{Ci/mL}$	3.61E-09	4.25E-09	
Percent of Effluent Concentration Limit*	4.92E-02%	4.64E-02%	

B. TRITIUM

Total Release: Ci	4.84E-02	5.72E+00	±9.4%
Average Diluted Concentration During Period: $\mu\text{Ci/mL}$	5.72E-08	3.50E-06	
Percent of Effluent Concentration Limit*	5.72E-03%	3.50E-01%	

C. DISSOLVED AND ENTRAINED GASES

Total Release: Ci	NDA	NDA	±16%
Average Diluted Concentration During Period: $\mu\text{Ci/mL}$	NDA	NDA	
Percent of Effluent Concentration Limit*	NDA	NDA	

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	1.02E+05	6.04E+05	±5.7%
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F. VOLUME OF DILUTION WATER USED DURING PERIOD

Dilution Volume: Liters	8.46E+08	1.64E+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, 1998.

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 1997

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 1997	Oct-Dec 1997	Jul-Sep 1997	Oct-Dec 1997

1. FISSION AND ACTIVATION PRODUCTS - CI

Cr-51	N/A	N/A	6.80E-06	NDA
Mn-54	N/A	N/A	5.12E-04	8.68E-04
Fe-55	N/A	N/A	1.68E-03	4.55E-03
Fe-59	N/A	N/A	3.17E-05	5.30E-06
Co-58	N/A	N/A	8.92E-06	1.63E-06
Co-60	N/A	N/A	6.42E-04	1.38E-03
Zn-65	N/A	N/A	3.26E-06	3.20E-06
Sr-89	N/A	N/A	9.31E-07	NDA
Sr-90	N/A	N/A	1.72E-05	7.23E-05
Zr/Nb-95	N/A	N/A	NDA	NDA
Mo-99/Tc-99m	N/A	N/A	NDA	NDA
Ru-103	N/A	N/A	NDA	NDA
Ag-110m	N/A	N/A	2.96E-06	1.16E-05
Sb-124	N/A	N/A	1.29E-06	NDA
I-131	N/A	N/A	NDA	5.89E-06
I-133	N/A	N/A	NDA	NDA
Cs-134	N/A	N/A	NDA	NDA
Cs-137	N/A	N/A	1.60E-04	7.32E-05
Ba/La-140	N/A	N/A	NDA	NDA
Ce-141	N/A	N/A	NDA	NDA
Total for period	N/A	N/A	3.05E-03	6.97E-03

2. DISSOLVED AND ENTRAINED GASES - CI

Xe-133	N/A	N/A	NDA	NDA
Xe-135	N/A	N/A	NDA	NDA
Total for period	N/A	N/A	NDA	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 there were no spent resins, filter sludges, etc., shipped from PNPS for processing and disposal. Dry compressible wastes and contaminated equipment buried during the period totaled about 5.0 cubic meters and contained about 7.8 Curies of radioactivity. No irradiated components were shipped during the reporting period. 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. One shipment was made to Oak Ridge, TN (Scientific Ecology Group), during the reporting period.

Table 3
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Solid Waste and Irradiated Fuel Shipments
July-December 1997

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	Jan-Jun 1997		
	Volume - m ³	Curies	Total Error
a. Spent resins, filters, filter sludges, evaporator bottoms, etc.	None	None	N/A
b. Dry compressible waste, contaminated equipment, etc.	4.95E+00	7.78E+00	± 25%
c. Irradiated components, control rods, etc.	None	None	N/A
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.	None	None	N/A
b. Dry compressible waste, contaminated equipment, etc.	Mn-54	4.87E+00%	± 25%
	Fe-55	6.55E+01%	± 25%
	Co-60	2.16E+01%	± 25%
	Ni-63	1.13E+00%	± 25%
	Cs-137	4.83E+00%	± 25%
	Ce-144	1.60E+00%	± 25%
c. Irradiated components, control rods, etc.	None	None	N/A
d. Other (describe)	None	None	N/A

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

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
1	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 E, 37%
- Wind Direction (from): Southwest, 14%
- 33-ft Wind Speed: 4-7 mph, 59%
- 220-ft Wind Speed: 13-18 mph, 37%

There were a 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 about 98% for the 33-ft level, and 97% for the 220-ft level 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 94%, 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 JUL97-SEP97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA				STABILITY CLASS A				CLASS FREQUENCY (PERCENT) = 7.72											
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	0	0	0	0	0	0	1	1	1	1	0	5	
(1)	.00	.00	.00	.00	.59	.00	.00	.00	.00	.00	.00	.00	.59	.59	.59	.59	.00	2.94	
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.05	.05	.05	.00	.23	
4-7	17	22	12	16	9	3	2	2	1	4	7	6	9	4	8	14	0	136	
(1)	10.00	12.94	7.06	9.41	5.29	1.76	1.18	1.18	.59	2.35	4.12	3.53	5.29	2.35	4.71	8.24	.00	80.00	
(2)	.77	1.00	.54	.73	.41	.14	.09	.09	.05	.18	.32	.27	.41	.18	.36	.64	.00	6.17	
8-12	0	0	2	0	0	0	0	0	5	15				2	0	0	0	28	
(1)	.00	.00	1.18	.00	.00	.00	.00	.00	2.94	8.24				1.18	.00	.00	.00	16.47	
(2)	.00	.00	.09	.00	.00	.00	.00	.00	.23	.64				.09	.00	.00	.00	1.27	
13-18	0	0	0	0	0	0	0	0	1				0	0	0	0	0	1	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.59				.00	.00	.00	.00	.00	.59	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05		.00	.00	.00	.00	.00	.00	.00	.05	
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	
(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	22	14	16	10	3	2	2	7	19	11	6	10	7	9	15	0	170	
(1)	10.00	12.94	8.24	9.41	5.88	1.76	1.18	1.18	4.12	11.18	6.47	3.53	5.88	4.12	5.29	8.24	.00	100.00	
(2)	.77	1.00	.64	.73	.45	.14	.09	.09	.32	.86	.50	.27	.45	.32	.41	.68	.00	7.72	

33.0 FT WIND DATA				STABILITY CLASS B				CLASS FREQUENCY (PERCENT) = 2.68											
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	0	0	0	0	0	0	1	1	0	0	0	3	
(1)	.00	.00	.00	.00	1.69	.00	.00	.00	.00	.00	.00	.00	1.69	1.69	.00	.00	.00	5.08	
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.14	
4-7	0	3	3	4	4	3	7	0	2	9	7	3	3	1	0	3	0	45	
(1)	.00	5.08	5.08	6.78	6.78	5.08	1.69	.00	3.39	13.56	11.86	5.08	5.08	1.69	.00	5.08	.00	76.27	
(2)	.00	.14	.14	.18	.18	.14	.05	.00	.09	.36	.32	.14	.14	.05	.00	.14	.00	2.04	
8-12	0	0	0	0	0	0	0	0	3	6	2	0	0	0	0	0	0	11	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	5.08	10.17	3.39	.00	.00	.00	.00	.00	.00	18.64	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.14	.27	.09	.00	.00	.00	.00	.00	.00	.50	
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	3	3	4	5	3	1	0	5	14	9	3	4	2	0	3	0	59	
(1)	.00	5.08	5.08	6.78	8.47	5.08	1.69	.00	8.47	23.73	15.25	5.08	6.78	3.39	.00	5.08	.00	100.00	
(2)	.00	.14	.14	.18	.27	.14	.05	.00	.23	.64	.41	.14	.18	.09	.00	.14	.00	2.68	

(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 (continued)

PILGRIM JUL97-SEP97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

37.0 FT WIND DATA			STABILITY CLASS C				CLASS FREQUENCY (PERCENT) = 3.00													
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	0	0	0	1	0	0	0	0	0	1	0	2	1	0	6		
(1)	.00	1.52	.00	.00	.00	.00	1.52	.00	.00	.00	.00	.00	1.52	.00	3.03	1.52	.00	9.09		
(2)	.00	.05	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	.00	.00	.05	.00	.27		
4-7	0	7	5	4	2	3	2	2	2	8	4	1	2	2	0	0	0	44		
(1)	.00	10.61	7.58	6.06	3.03	4.55	3.03	3.03	3.03	12.12	6.06	1.52	3.03	3.03	.00	.00	.00	66.67		
(2)	.00	.32	.23	.18	.09	.14	.09	.09	.09	.36	.18	.05	.09	.09	.00	.00	.00	2.00		
8-12	0	0	0	0	0	0	0	0	2	9	4	1	0	0	0	0	0	16		
(1)	.00	.00	.00	.00	.00	.00	.00	.00	3.03	13.64	6.06	1.52	.00	.00	.00	.00	.00	24.24		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.09	.41	.18	.05	.00	.00	.00	.00	.00	.73		
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	8	5	4	2	3	3	2	4	17	8	2	3	2	2	1	0	66		
(1)	.00	11.12	7.58	6.06	3.03	4.55	4.55	3.03	6.06	25.76	12.12	3.03	4.55	3.03	3.03	1.52	.00	100.00		
(2)	.00	.36	.23	.18	.09	.14	.14	.09	.13	.77	.36	.09	.14	.09	.09	.05	.00	3.00		

33.0 FT WIND DATA		STABILITY CLASS D						CLASS FREQUENCY (PERCENT) = 24.38												
		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	5	11	3	9	5	4	2	3	2	5	0	9	6	3	6	0	73	
(1)		.00	.93	2.05	.56	1.68	.93	.74	.37	.56	.37	.93	.00	1.68	1.12	.56	1.12	.00	13.59	
(2)		.00	.23	.50	.14	.41	.23	.18	.09	.14	.09	.23	.00	.41	.27	.14	.27	.00	3.31	
4-7		15	50	34	25	11	13	4	8	37	53	26	10	7	13	16	6	0	328	
(1)		2.79	9.31	6.33	4.66	2.05	2.42	.74	1.49	6.89	9.87	4.84	1.86	1.30	2.42	2.98	1.12	.00	61.08	
(2)		.68	2.27	1.54	1.13	.50	.59	.18	.36	1.68	2.41	1.18	.45	.32	.59	.73	.27	.00	14.89	
8-12		0	16	4	0	3	2	0	0	27	43	27	4	1	2	0	0	0	129	
(1)		.00	2.98	.74	.00	.56	.37	.00	.00	5.03	8.01	5.03	.74	.19	.37	.00	.00	.00	24.02	
(2)		.00	.73	.18	.00	.14	.09	.00	.00	1.23	1.95	1.23	.18	.05	.09	.00	.00	.00	5.86	
13-18		4	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7	
(1)		.74	.37	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.30	
(2)		.18	.09	.00	.00	.00	.05	.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		19	73	49	28	23	21	8	10	67	98	58	14	17	21	19	12	0	537	
(1)		3.54	13.59	9.12	5.21	4.26	3.91	1.49	1.86	12.48	18.25	10.80	2.61	3.17	3.91	3.54	2.23	.00	100.00	
(2)		.86	3.31	2.22	1.27	1.04	.95	.36	.45	3.04	4.45	2.63	.64	.77	.95	.86	.54	.00	24.38	

(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 JUL97-SEP97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS E						CLASS FREQUENCY (PERCENT) = 37.77											TOTAL
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	REL	
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		5	5	3	9	12	20	5	17	15	7	9	15	21	12	11	3	0	169
(1)		.60	.60	.36	1.08	1.44	2.40	.60	2.04	1.80	.84	1.08	1.80	2.52	1.44	1.32	.36	.00	20.31
(2)		.23	.23	.14	.41	.54	.91	.23	.77	.60	.32	.41	.68	.95	.54	.50	.14	.00	7.67
4-7		1	10	4	11	8	15	13	19	86	168	101	55	14	19	21	9	0	5.2
(1)		.12	1.20	.48	1.32	.72	1.80	1.56	2.28	10.34	20.19	12.14	6.61	1.68	2.28	2.52	1.08	.00	66.35
(2)		.05	.45	.18	.50	.27	.68	.59	.86	3.90	7.63	4.58	2.50	.64	.86	.95	.41	.00	25.06
8-12		2	0	0	0	2	8	1	2	14	52	10	4	1	2	8	0	0	106
(1)		.24	.00	.00	.00	.24	.96	.12	.24	1.68	6.25	1.20	.48	.12	.24	.96	.00	.00	12.74
(2)		.09	.00	.00	.00	.09	.36	.05	.09	.64	2.36	.45	.10	.05	.09	.36	.00	.00	4.81
13-18		0	0	0	0	1	3	0	0	0	1	0	0	0	0	0	0	0	5
(1)		.00	.00	.00	.00	.12	.36	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	.60
(2)		.00	.00	.00	.00	.05	.14	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.23
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	15	7	20	21	46	19	38	115	228	120	74	36	33	40	12	0	832
(1)		.96	1.80	.94	2.40	2.52	5.53	2.28	4.57	13.82	27.40	14.42	8.89	4.33	3.97	4.81	1.44	.00	100.00
(2)		.36	.68	.32	.91	.95	2.09	.86	1.72	5.22	10.35	5.45	3.36	1.63	1.50	1.82	.54	.00	37.77

33.0 FT WIND DATA		STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 18.29											TOTAL
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	REL	
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	4	6	8	4	9	24	15	12	13	14	4	1	2	0	117
(1)		.00	.00	.25	.99	1.49	1.9	.99	2.23	5.96	3.72	2.98	3.23	3.47	.99	.25	.50	.00	29.3
(2)		.00	.00	.05	.18	.27	.36	.18	.41	1.09	.68	.54	.59	.64	.18	.05	.09	.00	5.41
4-7		0	2	2	5	11	5	0	3	5	56	93	29	16	4	3	2	0	234
(1)		.00	.50	.50	1.24	2.73	1.24	.00	.74	1.24	13.90	23.08	7.20	3.47	.99	.74	.50	.00	58.06
(2)		.00	.09	.09	.23	.50	.23	.00	.14	.23	2.54	4.22	1.32	.64	.18	.14	.09	.00	10.62
8-12		0	0	0	0	0	0	0	0	0	34	17	1	0	0	0	0	0	52
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	8.44	4.22	.25	.00	.00	.00	.00	.00	12.90
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	1.54	.77	.05	.00	.00	.00	.00	.00	2.36
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	2	3	9	17	13	4	12	29	105	122	43	28	8	4	4	0	403
(1)		.00	.50	.74	2.23	4.22	3.23	.99	2.98	7.20	26.05	30.27	11.57	6.95	1.99	.99	.99	.00	100.00
(2)		.00	.09	.14	.41	.77	.59	.18	.54	1.32	4.77	5.54	1.95	1.27	.36	.18	.18	.00	18.29

(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)

PILGPIM JUL97-SEP97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA			STABILITY CLASS G				CLASS FREQUENCY (PERCENT) = 6.17													
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	3	1	2	0	1	2	2	8	10	0	1	0	0	0	32		
(1)	.00	.00	1.87	2.21	.74	1.47	.00	.74	1.47	1.47	5.68	7.35	.00	.74	.00	.00	.00	23.53		
(2)	.00	.00	.09	.14	.05	.09	.00	.05	.09	.09	.36	.45	.00	.05	.00	.00	.00	1.45		
4-7	0	0	7	21	10	0	0	0	1	5	25	20	7	5	2	0	0	99		
(1)	.00	.00	2.21	15.44	7.35	.00	.00	.00	.74	3.68	18.38	14.71	5.15	3.68	1.47	.00	.00	72.79		
(2)	.00	.00	.14	.95	.45	.00	.00	.00	.05	.23	1.13	.91	.32	.23	.09	.00	.00	4.49		
8-12	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	0	5		
(1)	.00	.00	.00	.00	.74	.00	.00	.00	.00	.00	2.94	.00	.00	.00	.00	.00	.00	3.68		
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00	.00	.23		
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	5	24	12	2	0	1	3	7	37	30	7	6	2	0	0	136		
(1)	.00	.00	3.68	17.65	8.82	1.47	.00	.74	2.21	5.15	27.21	22.06	5.15	4.41	1.47	.00	.00	100.00		
(2)	.00	.00	.23	1.09	.54	.09	.00	.05	.14	.32	1.68	1.36	.32	.27	.09	.00	.00	6.17		

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	5	11	17	19	30	35	14	29	44	26	34	38	47	25	18	13	0	405				
(1)	.23	.50	.77	.86	1.36	1.59	.64	1.32	2.00	1.18	1.54	1.72	2.13	1.13	.82	.59	.00	18.38				
(2)	.23	.50	.77	.86	1.36	1.59	.64	1.32	2.00	1.18	1.54	1.72	2.13	1.13	.82	.59	.00	18.38				
4-7	33	94	63	86	53	42	22	34	134	302	263	124	56	48	5	34	0	1438				
(1)	1.50	4.27	2.86	3.90	2.41	1.91	1.00	1.54	6.08	13.71	11.94	5.63	2.54	2.18	2.27	1.54	.00	65.27				
(2)	1.50	4.27	2.86	3.90	2.41	1.91	1.00	1.54	6.08	13.71	11.94	5.63	2.54	2.18	2.27	1.54	.00	65.27				
8-12	2	16	6	0	6	10	1	2	51	159	60	10	2	6	8	0	0	347				
(1)	.09	.73	.27	.00	.27	.45	.05	.09	2.32	7.22	3.09	.45	.09	.27	.36	.00	.00	15.75				
(2)	.09	.73	.27	.00	.27	.45	.05	.09	2.32	7.22	3.09	.45	.09	.27	.36	.00	.00	15.75				
13-18	4	2	0	0	1	4	0	0	1	1	0	0	0	0	0	0	0	13				
(1)	.18	.09	.00	.00	.05	.18	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.59				
(2)	.18	.09	.00	.00	.05	.18	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.59				
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	44	123	86	105	90	91	37	65	230	488	365	172	105	79	76	47	0	2203				
(1)	2.00	5.58	3.90	4.77	4.09	4.13	1.68	2.95	10.44	22.15	16.57	7.81	4.77	3.59	3.45	2.13	.00	100.00				
(2)	2.00	5.58	3.90	4.77	4.09	4.13	1.68	2.95	10.44	22.15	16.57	7.81	4.77	3.59	3.45	2.13	.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 .9' MPH)

Table 4A (continued)

PILGRIM OCT97-DEC97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA				STABILITY CLASS A				CLASS FREQUENCY (PERCENT) = 6.36												
SPEED (MPH)	WIND DIRECTION FROM																		TOTAL	
	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	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2		
(1)	.00	.75	.00	.00	.00	.00	.00	.00	.75	.00	.00	.00	.00	.00	.00	.00	.00	.00		
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	1.49		
4-7	5	12	14	2	8	8	5	0	0	0	0	5	16	12	17	9	0	113		
(1)	3.73	8.96	10.45	1.49	5.97	5.97	3.73	.00	.00	.00	.00	3.73	11.94	8.96	12.69	6.72	.00	84.33		
(2)	.24	.57	.66	.09	.38	.38	.24	.00	.00	.00	.00	.24	.76	.57	.81	.43	.00	5.36		
8-12	1	0	1	0	0	0	0	0	1	0	0	2	6	5	0	3	0	19		
(1)	.75	.00	.75	.00	.00	.00	.00	.00	.75	.00	.00	1.49	4.48	3.73	.00	2.24	.00	14.18		
(2)	.05	.00	.05	.00	.00	.00	.00	.00	.05	.00	.00	.09	.28	.24	.00	.14	.00	.90		
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	3	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	13	15	2	8	8	5	0	2	0	0	7	22	17	17	12	0	134		
(1)	4.48	9.70	11.19	1.49	5.97	5.97	3.73	.00	1.49	.00	.00	5.22	16.42	12.69	12.69	8.96	.00	100.00		
(2)	.28	.62	.71	.09	.38	.38	.24	.00	.09	.00	.00	.33	1.04	.81	.81	.57	.00	6.36		

33.0 FT WIND DATA		STABILITY CLASS B						CLASS FREQUENCY (PERCENT) = 3.32												
		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	1	3	1	3	0	2	0	0	1	3	8	9	3	1	3	0	39	
(1)		1.43	1.43	4.29	1.43	4.29	.00	2.86	.00	.00	1.43	4.29	11.43	12.86	4.29	1.43	4.29	.00	55.71	
(2)		.05	.05	.14	.05	.14	.00	.09	.00	.00	.05	.14	.38	.43	.14	.05	.14	.00	1.85	
8-12		0	6	3	0	0	0	2	0	2	0	0	3	4	2	1	2	0	25	
(1)		.00	8.57	4.29	.00	.00	.00	2.86	.00	2.86	.00	.00	4.29	5.71	2.86	1.43	2.86	.00	35.71	
(2)		.00	.28	.14	.00	.00	.00	.09	.00	.09	.00	.00	.14	.19	.09	.05	.09	.00	1.19	
13-18		0	1	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	6	
(1)		.00	1.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.43	5.71	.00	.00	.00	8.57	
(2)		.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.19	.00	.00	.00	.28	
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	8	6	1	3	0	4	0	2	1	3	11	14	9	2	5	0	70	
(1)		1.43	11.43	8.57	1.43	4.29	.00	5.71	.00	2.86	1.43	4.29	15.71	20.00	12.86	2.86	7.14	.00	100.00	
(2)		.05	.38	.28	.05	.14	.00	.19	.00	.09	.05	.14	.52	.66	.43	.09	.24	.00	3.32	

(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 OCT97-DEC97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA			STABILITY CLASS C						CLASS FREQUENCY (PERCENT) = 4.84											
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	1	0	0	0	0	1	0	0	0	1	2	0	0	5		
(1)	.00	.00	.00	.00	.90	.00	.00	.00	.00	.98	.00	.00	.00	.08	1.96	.00	.00	4.90		
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.00	.00	.00	.05	.09	.00	.00	.24		
4-7	4	2	1	3	2	1	1	1	1	0	4	16	8	6	4	1	0	55		
(1)	3.92	1.96	.98	2.94	1.96	.98	.98	.98	.98	.00	3.92	15.69	7.84	5.88	3.92	.98	.00	53.92		
(2)	.19	.09	.05	.14	.09	.05	.05	.05	.05	.00	.19	.76	.38	.28	.19	.05	.00	2.61		
8-12	1	6	4	1	0	0	0	0	1	2	4	9	9	0	0	0	0	37		
(1)	.98	5.88	3.92	.58	.00	.00	.00	.00	.98	1.96	3.92	8.82	8.82	.00	.00	.00	.00	36.27		
(2)	.05	.28	.19	.05	.00	.00	.00	.00	.05	.09	.19	.43	.43	.00	.00	.00	.00	1.76		
13-18	0	3	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	5		
(1)	.00	2.94	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.98	.98	.00	.00	.00	4.90		
(2)	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.24		
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	11	5	4	3	1	1	1	2	3	8	25	18	8	6	1	0	102		
(1)	4.90	10.78	4.90	3.92	2.94	.98	.98	.98	1.96	2.94	7.84	24.51	17.65	7.84	5.88	.98	.00	100.00		
(2)	.24	.52	.24	.19	.14	.05	.05	.05	.09	.14	.38	1.19	.85	.38	.28	.05	.00	4.84		

33.0 FT WIND DATA			STABILITY CLASS D						CLASS FREQUENCY (PERCENT) = 32.92											
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	1	2	3	3	6	2	5	3	2	4	2	8	7	3	2	1	0	54		
(1)	.14	.29	.43	.43	.86	.29	.72	.43	.29	.58	.29	1.15	1.01	.43	.29	.14	.00	7.78		
(2)	.05	.09	.14	.14	.28	.09	.24	.14	.09	.19	.09	.38	.33	.14	.09	.05	.00	2.56		
4-7	12	12	11	13	9	21	4	5	10	19	29	40	38	24	17	5	0	269		
(1)	1.73	1.73	1.59	1.87	1.30	3.03	.58	.72	1.44	2.74	4.18	5.76	5.48	3.46	2.45	.72	.00	38.76		
(2)	.57	.57	.52	.62	.43	1.00	.19	.24	.47	.90	1.38	1.90	1.80	1.14	.81	.24	.00	12.76		
8-12	16	45	43	1	8	9	1	1	6	10	13	31	33	37	25	6	0	285		
(1)	2.31	6.48	6.20	.14	1.15	1.30	.14	.14	.86	1.44	1.87	4.47	4.76	5.33	3.60	.86	.00	41.07		
(2)	.76	2.13	2.04	.05	.38	.43	.05	.05	.28	.47	.62	1.47	1.57	1.76	1.19	.28	.00	13.52		
13-18	2	16	19	1		1	0	0	0	6	2	2	17	15	0	0	0	86		
(1)	.29	2.31	2.74	.14		.14	.00	.00	.00	.86	.29	.29	2.45	2.16	.00	.00	.00	12.39		
(2)	.09	.76	.90	.05	.24	.05	.00	.00	.00	.28	.09	.09	.81	.71	.00	.00	.00	4.08		
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	31	75	76	18	28	33	10	9	18	39	46	81	95	79	44	12	0	694		
(1)	4.47	10.81	10.95	2.59	4.03	4.76	1.44	1.30	2.59	5.62	6.63	11.67	13.69	11.38	6.34	1.73	.00	100.00		
(2)	1.47	3.56	3.61	.85	1.33	1.57	.47	.43	.85	1.85	2.18	3.84	4.51	3.75	2.09	.57	.00	32.92		

33.0 FT WIND DATA		STABILITY CLASS D						CLASS FREQUENCY (PERCENT) = 32.92													
								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	3	3	6	2	5	3	2	4	2	8	7	3	2	1	0	54			
(1)	.14	.29	.43	.43	.86	.29	.72	.43	.29	.58	.29	1.15	1.01	.43	.29	.14	.00	7.78			
(2)	.05	.09	.14	.14	.28	.09	.24	.14	.09	.19	.09	.38	.33	.14	.09	.05	.00	2.56			
4-7	12	12	11	13	9	21	4	5	10	19	29	40	38	24	17	5	0	269			
(1)	1.73	1.73	1.59	1.87	1.30	3.03	.58	.72	1.44	2.74	4.18	5.76	5.48	3.46	2.45	.72	.00	38.76			
(2)	.57	.57	.52	.62	.43	1.00	.19	.24	.47	.90	1.38	1.90	1.80	1.14	.91	.24	.00	12.76			
8-12	16	45	43	1	8	9	1	1	6	10	13	31	33	37	25	6	0	285			
(1)	2.31	6.48	6.20	.14	1.15	1.30	.14	.14	.86	1.44	1.87	4.47	4.76	5.33	3.60	.86	.00	41.07			
(2)	.76	2.13	2.04	.05	.38	.43	.05	.05	.28	.47	.62	1.47	1.57	1.76	1.19	.28	.00	13.52			
13-18	2	16	19	1		1	0	0	0	6	2	2	17	15	0	0	0	86			
(1)	.29	2.31	2.74	.14		.14	.00	.00	.00	.86	.29	.29	2.45	2.16	.00	.00	.00	12.39			
(2)	.09	.76	.90	.05	.24	.05	.00	.00	.00	.28	.09	.09	.81	.71	.00	.00	.00	4.08			
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	31	75	76	18	28	33	10	9	18	39	46	81	95	79	44	12	0	694			
(1)	4.47	10.81	10.95	2.59	4.03	4.76	1.44	1.30	2.59	5.62	6.63	11.67	13.69	11.38	6.34	1.73	.00	100.00			
(2)	1.47	3.56	3.61	.85	1.33	1.57	.47	.43	.85	1.85	2.18	3.84	4.51	3.75	2.09	.57	.00	32.92			

(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 OCT97-DEC97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA			STABILITY CLASS E				CLASS FREQUENCY (PERCENT) = 36.72													
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	2	0	0	0	0	0	0	2		
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.26		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09		
C-3	1	3	2	0	5	5	26	14	17	14	20	26	26	6	9	1	0	175		
(1)	.13	.39	.26	.00	.65	.65	3.36	1.81	2.20	1.81	2.58	3.36	3.36	.78	1.16	.13	.00	22.61		
(2)	.05	.14	.09	.00	.24	.24	1.23	.66	.81	.66	.95	1.23	1.23	.28	.43	.05	.00	8.30		
4-7	0	3	6	5	8	9	22	18	33	33	76	100	79	34	22	7	0	775		
(1)	.00	.39	.78	.65	1.03	1.16	2.84	2.33	4.26	4.26	9.82	12.92	10.21	4.39	2.84	.90	.00	58.19		
(2)	.00	.14	.28	.24	.38	.43	1.04	.85	1.57	1.57	3.61	4.74	3.75	1.61	1.04	.33	.00	21.58		
8-12	0	2	1	0	5	7	4	4	9	18	22	17	21	2	1	3	0	116		
(1)	.00	.26	.13	.00	.65	.90	.52	.52	1.16	2.33	2.84	2.20	2.71	.26	.13	.39	.00	14.99		
(2)	.00	.09	.05	.00	.24	.33	.19	.19	.43	.85	1.04	.81	1.00	.09	.05	.14	.00	5.50		
13-18	2	1	1	3	6	2	0	0	1	2	0	1	4	1	0	0	0	24		
(1)	.05	.13	.13	.39	.78	.26	.00	.00	.13	.26	.00	.13	.52	.13	.00	.00	.00	3.10		
(2)	.09	.05	.05	.14	.28	.09	.00	.00	.05	.09	.00	.05	.19	.05	.00	.00	.00	1.14		
19-24	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2		
(1)	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26		
(2)	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.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	3	9	10	8	26	23	52	36	60	67	120	144	130	43	32	11	0	774		
(1)	.39	1.16	1.29	1.03	3.36	2.97	6.72	4.65	7.75	8.66	15.50	18.60	16.80	5.56	4.13	1.42	.00	100.00		
(2)	.14	.43	.47	.38	1.23	1.09	2.47	1.71	2.85	3.18	5.69	6.83	6.17	2.04	1.52	.52	.00	36.72		

33.0 FT WIND DATA		STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 13.57												
		WIND DIRECTION FROM																		
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VEBL	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	.35	.00	.00	.00	.00	.00	.00	.35	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	
C-3	0	0	0	0	0	0	0	8	17	12	13	17	11	19	4	0	1	0	102	
(1)	.00	.00	.00	.00	.00	.00	.00	2.80	5.94	4.20	4.55	5.94	3.85	6.84	1.40	.00	.35	.00	35.66	
(2)	.00	.00	.00	.00	.00	.00	.00	.38	.81	.57	.62	.81	.52	.90	.19	.00	.05	.00	4.84	
4-7	0	0	0	0	0	0	0	0	9	6	33	81	21	11	0	0	0	0	161	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	3.15	2.10	11.54	28.32	7.34	3.85	.00	.00	.00	.00	56.29	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.43	.28	1.57	3.84	1.00	.52	.00	.00	.00	.00	7.64	
8-12	0	0	0	0	0	0	0	0	0	0	6	14	1	0	0	0	0	0	21	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.10	4.90	.35	.00	.00	.00	.00	.00	7.34	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.66	.05	.00	.00	.00	.00	.00	1.00	
13-18	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	.00	.35	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	
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	0	0	8	26	18	53	113	33	30	4	0	1	0	286	
(1)	.00	.00	.00	.00	.00	.00	.00	2.80	9.09	6.29	18.53	39.51	11.54	10.49	1.40	.00	.35	.00	100.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.38	1.23	.85	2.51	5.36	1.57	1.42	.19	.00	.05	.00	13.57	

(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 OCT97-DEC97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA			STABILITY CLASS G						CLASS FREQUENCY (PERCENT) = 2.28												
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	1	1	2	1	2	1	1	0	0	9			
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.08	2.08	4.17	2.08	4.17	2.08	2.08	.00	.00	18.75			
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.09	.05	.09	.05	.05	.00	.00	.43			
4-7	0	0	0	0	0	0	0	0	0	2	22	7	0	1	0	0	0	32			
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.17	45.83	14.58	.00	2.08	.00	.00	.00	66.67			
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	1.04	.33	.00	.05	.00	.00	.00	1.52			
8-12	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	6			
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.25	6.25	.00	.00	.00	.00	.00	.00	12.50			
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.14	.00	.00	.00	.00	.00	.00	.28			
13-18	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	2.08	.00	.00	.00	.00	.00	.00	2.08			
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05			
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	1	6	26	6	2	2	1	0	0	48			
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.08	12.50	56.33	16.67	4.17	4.17	2.08	.00	.00	100.00			
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.28	1.33	.38	.09	.09	.05	.00	.00	2.28			

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	3	0	0	0	0	0	0	3		
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.14		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.14		
C-3	2	6	5	3	12	7	39	34	33	33	41	46	54	15	14	3	0	347		
(1)	.09	.28	.24	.14	.57	.33	1.85	1.61	1.57	1.57	1.94	2.18	2.56	.71	.66	.14	.00	16.46		
(2)	.09	.28	.24	.14	.57	.33	1.85	1.61	1.57	1.57	1.94	2.18	2.56	.71	.66	.14	.00	16.46		
4-7	22	30	35	24	30	39	34	33	50	88	215	197	161	80	61	25	0	1124		
(1)	1.04	1.42	1.66	1.14	1.42	1.85	1.61	1.57	2.37	4.17	10.20	9.35	7.64	3.80	2.89	1.19	.00	53.32		
(2)	1.04	1.42	1.66	1.14	1.42	1.85	1.61	1.57	2.37	4.17	10.20	9.35	7.64	3.80	2.89	1.19	.00	53.32		
8-12	18	59	52	2	13	16	7	5	19	39	56	63	73	46	27	14	0	509		
(1)	.85	2.80	2.47	.09	.62	.76	.33	.24	.90	1.85	2.66	2.99	3.46	2.18	1.28	.66	.00	24.15		
(2)	.85	2.80	2.47	.09	.62	.76	.33	.24	.90	1.85	2.66	2.99	3.46	2.18	1.28	.66	.00	24.15		
13-18	4	21	20	4	11	3	0	0	1	9	3	3	23	21	0	0	0	123		
(1)	.19	1.00	.95	.19	.52	.14	.00	.00	.05	.43	.14	.14	1.09	1.00	.00	.00	.00	5.83		
(2)	.19	1.00	.95	.19	.52	.14	.00	.00	.05	.43	.14	.14	1.09	1.00	.00	.00	.00	5.83		
19-24	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2		
(1)	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09		
(2)	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.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	46	116	112	33	68	65	80	72	103	169	318	309	311	162	102	42	0	2108		
(1)	2.18	5.50	5.31	1.57	3.23	3.08	3.80	3.42	4.89	8.02	15.09	14.66	14.75	7.69	4.84	1.99	.00	100.00		
(2)	2.18	5.50	5.31	1.57	3.23	3.08	3.80	3.42	4.89	8.02	15.09	14.66	14.75	7.69	4.84	1.99	.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 JUL97-SEP97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA			STABILITY CLASS A					CLASS FREQUENCY (PERCENT) = 7.52										
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	5	1	0	2	0	0	0	0	0	1	3	3	0	1	5	0	22
(1)	.61	3.07	.61	.00	1.23	.00	.00	.00	.00	.00	.61	1.84	1.84	.00	.61	3.07	.00	13.50
(2)	.05	.23	.05	.00	.09	.00	.00	.00	.00	.00	.05	.14	.14	.00	.05	.23	.00	1.01
8-12	4	6	3	1	16	3	3	1	0	2	3	4	6	2	5	10	0	66
(1)	2.45	1.68	1.84	.61	9.82	1.84	1.84	.61	.00	1.23	1.84	2.45	3.68	1.23	3.07	6.13	.00	42.33
(2)	.18	.28	.14	.05	.74	.14	.14	.05	.00	.09	.14	.18	.28	.09	.23	.46	.00	3.18
13-18	7	2	8	0	0	1	2	0	6	6	9	0	4	1	0	7	0	53
(1)	4.29	1.23	4.91	.00	.00	.61	1.23	.00	3.68	3.68	5.52	.00	2.45	.61	.00	4.29	.00	32.52
(2)	.32	.09	.37	.00	.00	.05	.09	.00	.28	.28	.42	.00	.18	.05	.00	.32	.00	2.44
19-24	0	0	0	0	0	0	0	0	5	2	0	0	0	2	5	5	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.00	3.07	1.23	.00	.00	.00	1.23	3.07	3.07	.00	11.66
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.23	.09	.00	.00	.00	.09	.23	.23	.00	.08
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	13	12	1	18	4	5	1	11	10	13	7	13	5	11	27	0	163
(1)	7.36	7.98	7.36	.61	11.04	2.45	3.07	.61	6.75	6.13	7.98	4.29	7.98	3.07	6.75	16.56	.00	100.00
(2)	.55	.60	.55	.05	.83	.18	.23	.05	.51	.46	.60	.32	.60	.23	.51	1.25	.00	7.52

220.0 FT WIND DATA		STABILITY CLASS C						CLASS FREQUENCY (PERCENT) = 2.68											
		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	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	1	2	1	2	1	0	0	0	0	2	1	3	0	0	0	0	13	
(1)	.00	1.72	3.45	1.72	3.45	1.72	.00	.00	.00	.00	3.45	1.72	5.17	.00	.00	.00	.00	22.41	
(2)	.00	.05	.09	.05	.09	.05	.00	.00	.00	.00	.09	.05	.14	.00	.00	.00	.00	.60	
8-12	0	0	0	0	1	4	2	0	1	8	3	2	1	0	1	0	0	23	
(1)	.00	.00	.00	.00	1.72	6.90	3.45	.00	1.72	13.79	5.17	3.45	1.72	.00	1.72	.00	.00	39.66	
(2)	.00	.00	.00	.00	.05	.18	.09	.00	.05	.37	.14	.09	.05	.00	.05	.00	.00	1.06	
13-18	1	1	1	0	0	0	0	0	1	3	5	0	0	0	0	0	0	12	
(1)	1.72	1.72	1.72	.00	.00	.00	.00	.00	1.72	5.17	8.62	.00	.00	.00	.00	.00	.00	20.69	
(2)	.05	.05	.05	.00	.00	.00	.00	.00	.05	.14	.23	.00	.00	.00	.00	.00	.00	.55	
19-24	0	0	0	0	0	0	0	0	4	1	0	0	0	2	0	3	0	10	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	6.90	1.72	.00	.00	.00	3.45	.00	5.17	.00	17.24	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.14	.05	.00	.00	.00	.09	.00	.14	.00	.46	
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 SPEED*	1	2	3	1	3	5	2	0	6	12	10	3	4	2	1	3	0	58	
(1)	1.72	3.45	5.17	1.72	5.17	8.62	3.45	.00	10.34	20.69	17.24	5.17	6.90	3.45	1.72	5.17	.00	100.00	
(2)	.05	.09	.14	.05	.14	.23	.09	.00	.28	.55	.46	.14	.18	.09	.05	.14	.00	2.68	

(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 4B (continued)

PILGRIM JUL97-SEP97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA			STABILITY CLASS C						CLASS FREQUENCY (PERCENT) = 3.04											
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	0	2	2	0	0	0	0	0	0	0	0	0	3	0	2	1	0	10		
(1)	.00	3.03	3.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.55	.00	3.03	1.52	.00	15.15		
(2)	.00	.09	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.09	.03	.00	.46		
8-12	0	4	2	2	1	4	3	2	1	5	2	0	1	0	0	0	0	27		
(1)	.00	6.06	3.03	3.03	1.52	6.06	4.55	3.03	1.52	7.58	3.03	.00	1.52	.00	.00	.00	.00	40.91		
(2)	.00	.18	.09	.09	.05	.18	.14	.09	.05	.23	.09	.00	.05	.00	.00	.00	.00	1.25		
13-18	1	2	0	1	0	1	0	0	3	6	8	2	1	1	0	0	0	26		
(1)	1.52	3.03	.00	1.52	.00	1.52	.00	.00	4.55	9.09	12.12	3.03	1.52	1.52	.00	.00	.00	39.39		
(2)	.05	.09	.00	.05	.00	.05	.00	.00	.14	.28	.37	.09	.05	.05	.00	.00	.00	1.20		
19-24	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3		
(1)	.00	.00	.00	.00	.00	.00	.00	.00	3.03	1.52	.00	.00	.00	.00	.00	.00	.00	4.55		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.09	.05	.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	1	8	4	3	1	5	3	2	6	12	10	2	5	1	2	1	0	66		
(1)	1.52	12.12	6.06	4.55	1.52	7.58	4.55	3.03	9.09	18.18	15.15	3.03	7.58	1.52	3.03	1.52	.00	100.00		
(2)	.05	.37	.18	.14	.05	.23	.14	.09	.28	.55	.46	.09	.23	.05	.09	.05	.00	3.04		

220.0 FT WIND DATA		STABILITY CLASS D						CLASS FREQUENCY (PERCENT) = 24.12												
		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	2	1	1	2	1	0	0	1	1	2	1	2	0	1	0	0		
(1)		.00	.38	.19	.19	.38	.19	.00	.00	.19	.19	.38	.19	.38	.00	.19	.00	.00		
(2)		.00	.09	.05	.05	.09	.05	.00	.00	.05	.05	.09	.05	.09	.00	.05	.00	.00		
4-7		2	2	9	8	4	7	2	2	4	4	2	3	6	4	3	7	0		
(1)		.30	.38	1.72	1.53	.76	1.34	.38	.38	.76	.76	.38	.57	1.15	.76	.57	1.34	.00		
(2)		.09	.09	.42	.37	.18	.32	.09	.09	.18	.18	.09	.14	.28	.18	.14	.32	.00		
8-12		3	21	13	9	6	10	7	6	12	25	10	4	5	5	4	5	0		
(1)		.57	4.02	2.49	1.72	1.15	1.91	1.34	1.15	2.29	4.78	1.91	.76	.96	.96	.76	.96	.00		
(2)		.14	.97	.60	.42	.28	.46	.32	.28	.55	1.15	.46	.18	.23	.23	.18	.23	.00		
13-18		5	14	8	12	8	7	3	3	35	44	41	10	4	6	5	5	0		
(1)		.96	2.68	1.53	2.29	1.53	1.53	.57	.57	6.69	8.41	7.84	1.91	.76	1.15	.96	.96	.00		
(2)		.23	.65	.37	.55	.37	.37	.14	.14	1.61	2.03	1.89	.46	.18	.28	.23	.23	.00		
19-24		7	4	6	0	2	0	0	0	7	15	7	1	1	2	5	3	0		
(1)		1.34	.76	1.15	.00	.38	.00	.00	.00	1.34	2.87	1.34	.19	.19	.38	.96	.57	.00		
(2)		.32	.18	.28	.00	.09	.00	.00	.00	.32	.69	.32	.05	.05	.09	.23	.14	.00		
GT 24		5	7	0	0	0	3	0	0	0	2	1	0	1	2	2	0	0		
(1)		.55	1.34	.00	.00	.00	.57	.00	.00	.00	.38	.19	.00	.19	.38	.38	.00	.00		
(2)		.23	.32	.00	.00	.00	.14	.00	.00	.00	.09	.05	.00	.05	.09	.09	.00	.00		
ALL SPEEDS		22	50	37	30	22	29	12	11	59	91	63	19	19	19	20	20	0		
(1)		4.21	9.56	7.07	5.74	4.21	5.54	2.29	2.10	11.28	17.40	12.05	3.63	3.63	3.63	3.82	3.82	.00		
(2)		1.01	2.31	1.71	1.38	1.01	1.34	.55	.51	2.72	4.20	2.91	.88	.88	.88	.92	.92	.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 JUL97-SEP97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA			STABILITY CLASS E					CLASS FREQUENCY (PERCENT) = 38.10											
			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	1	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	.12	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	
C-3	0	0	2	0	2	3	0	0	0	1	2	1	0	0	0	0	0	11	
(1)	.00	.00	.24	.00	.24	.36	.00	.00	.00	.12	.24	.12	.00	.00	.00	.00	.00	1.33	
(2)	.00	.00	.09	.00	.09	.14	.00	.00	.00	.05	.09	.05	.00	.00	.00	.00	.00	.51	
4-7	0	1	4	4	14	11	12	2	3	3	9	5	2	8	5	5	0	89	
(1)	.00	.12	.48	.48	1.69	1.33	1.45	.24	.36	.36	1.09	.61	.24	.97	.61	.61	.00	10.65	
(2)	.00	.05	.18	.18	.65	.51	.55	.09	.14	.14	.42	.23	.09	.37	.23	.23	.00	4.06	
8-12	1	6	2	3	5	9	20	14	12	25	20	21	7	14	10	9	0	171	
(1)	.12	.73	.24	.36	.61	1.09	2.42	1.69	1.45	3.03	2.42	2.54	.85	1.69	1.21	1.09	.00	21.55	
(2)	.05	.28	.09	.14	.23	.42	.92	.65	.55	1.15	.92	.97	.32	.65	.46	.42	.00	8.21	
13-18	3	3	2	2	0	1	14	15	46	129	67	53	16	10	15	5	0	382	
(1)	.36	.36	.24	.24	.00	.12	1.69	1.82	5.57	15.62	9.11	6.02	1.94	1.21	1.82	.73	.00	46.25	
(2)	.14	.14	.09	.09	.00	.05	.65	.69	2.12	5.94	3.09	2.44	.74	.46	.69	.28	.00	17.62	
19-24	0	1	0	0	1	8	1	5	8	58	22	5	1	5	17	7	0	139	
(1)	.00	.12	.00	.00	.12	.97	.12	.61	.97	7.02	2.66	.61	.12	.61	2.06	.25	.00	16.83	
(2)	.00	.05	.00	.00	.05	.37	.05	.23	.37	2.68	1.01	.23	.05	.23	.78	.32	.00	6.41	
GT 24	4	0	0	0	2	8	1	0	0	1	0	1	0	1	8	1	0	27	
(1)	.48	.00	.00	.00	.24	.97	.12	.00	.00	.12	.00	.12	.00	.12	.97	.12	.00	3.27	
(2)	.18	.00	.00	.00	.09	.37	.05	.00	.00	.05	.00	.05	.00	.05	.37	.05	.00	1.25	
L SPEEDS	8	11	10	9	24	40	48	36	70	217	120	86	26	38	55	28	0	826	
(1)	.97	1.33	1.21	1.09	2.91	4.84	5.81	4.36	8.47	26.27	14.51	10.41	3.15	4.60	6.56	3.39	.00	100.00	
(2)	.37	.51	.46	.42	1.11	1.85	2.21	1.66	3.23	10.01	5.54	3.97	1.20	1.75	2.54	1.29	.00	38.10	

220.0 FT WIND DATA		STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 18.40											
		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		0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	6
(1)		.00	.00	.00	.00	.25	.25	.25	.00	.25	.25	.25	.00	.00	.00	.00	.00	.00	1.50
(2)		.00	.00	.00	.00	.05	.05	.05	.00	.05	.05	.05	.00	.00	.00	.00	.00	.00	.28
4-7		0	1	2	5	4	16	7	2	5	5	2	3	3	3	3	0	0	61
(1)		.00	.25	.50	1.25	1.00	4.01	1.75	.50	1.25	1.25	.50	.75	.75	.75	.75	.00	.00	15.29
(2)		.00	.05	.09	.23	.18	.74	.32	.09	.23	.23	.09	.14	.14	.14	.14	.00	.00	2.81
8-12		0	0	0	3	5	14	11	10	8	9	9	8	14	11	7	4	0	113
(1)		.00	.00	.00	.75	1.25	3.51	2.76	2.51	2.01	2.26	2.26	2.01	3.51	2.76	1.75	1.00	.00	28.32
(2)		.00	.00	.00	.14	.23	.65	.51	.46	.37	.42	.42	.37	.65	.51	.32	.18	.00	5.21
13-18		0	1	0	0	1	1	2	1	4	18	43	36	24	13	7	1	0	152
(1)		.00	.25	.00	.00	.25	.25	.50	.25	1.00	4.51	10.78	9.02	6.02	3.26	1.75	.25	.00	38.10
(2)		.00	.05	.00	.00	.05	.05	.09	.05	.18	.83	1.98	1.66	1.11	.60	.32	.05	.00	7.01
19-24		0	0	0	0	0	0	0	0	0	13	44	0	4	0	0	5	0	66
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	3.26	11.03	.00	1.00	.00	.00	1.25	.00	16.54
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	2.03	.00	.18	.00	.00	.23	.00	3.04
GT 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	.25	.00	.00	.00	.00	.25
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05
ALL SPEEDS		0	2	2	8	11	32	21	13	18	46	99	47	46	27	17	10	0	399
(1)		.00	.50	.50	2.01	2.76	8.02	5.26	3.26	4.51	11.53	24.81	11.78	11.53	6.77	4.26	2.51	.00	100.00
(2)		.00	.09	.09	.37	.51	1.48	.97	.60	.83	2.12	4.57	2.17	2.12	1.25	.78	.46	.00	18.40

(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 4B (continued)

PILGRIM JUL97-SEP97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C						CLASS FREQUENCY (PERCENT)										6.13			
		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	1	1	0	2	1	1	1	0	0	0	1	1	0	1	0	0	0	10		
(1)	.00	.75	.75	.00	1.50	.75	.75	.75	.00	.00	.00	.75	.75	.00	.75	.00	.00	.00	7.52		
(2)	.00	.05	.05	.00	.09	.05	.05	.05	.00	.00	.00	.05	.05	.05	.00	.05	.00	.00	.46		
4-7	0	0	1	4	11	0	1	2	1	1	2	0	7	3	0	2	0	0	35		
(1)	.00	.00	.75	3.01	8.27	.00	.75	1.50	.75	.75	1.50	.00	5.26	2.26	.00	1.50	.00	.00	26.32		
(2)	.00	.00	.05	.18	.51	.00	.05	.09	.05	.05	.09	.00	.32	.14	.00	.09	.00	.00	1.61		
8-12	0	0	0	0	6	10	0	0	0	0	1	0	11	5	2	0	0	0	42		
(1)	.00	.00	.00	.00	6.02	7.52	.00	.00	.00	.00	.75	3.76	8.27	3.76	1.50	.00	.00	.00	31.58		
(2)	.00	.00	.00	.00	.37	.46	.00	.00	.00	.00	.05	.23	.51	.23	.09	.00	.00	.00	1.94		
13-18	0	0	0	1	5	0	0	0	0	1	3	5	16	11	0	0	0	0	42		
(1)	.00	.00	.00	.75	3.76	.00	.00	.00	.00	.75	2.26	3.76	12.03	8.27	.00	.00	.00	.00	31.58		
(2)	.00	.00	.00	.05	.23	.00	.00	.00	.00	.05	.14	.23	.74	.51	.00	.00	.00	.00	1.94		
19-24	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	4		
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.50	.00	1.50	.00	.00	.00	.00	.00	3.01		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.09	.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	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	1	2	5	26	11	2	0	1	2	6	11	19	3	2	0	0	0	133		
(1)	.00	.75	1.50	3.76	19.55	8.27	1.50	2.26	.75	1.50	6.02	8.27	21.82	14.29	2.26	1.50	.00	.00	100.00		
(2)	.00	.05	.09	.23	1.20	.51	.09	.14	.05	.09	.37	.51	1.71	.88	.14	.09	.00	.00	6.13		

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	1	0	0	0	0	0	0	0	0	1		
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05		
C-3	0	3	4	1	7	6	2	1	2	3	5	3	3	3	0	2	0	0	42		
(1)	.00	.14	.18	.05	.32	.28	.09	.05	.09	.14	.23	.14	.14	.14	.00	.09	.00	.00	1.94		
(2)	.00	.14	.18	.05	.32	.28	.09	.05	.09	.14	.23	.14	.14	.14	.00	.09	.00	.00	1.94		
4-7	3	12	21	22	37	35	22	8	13	13	18	15	27	18	14	20	0	0	298		
(1)	.14	.55	.97	1.01	1.71	1.61	1.01	.37	.60	.60	.83	.69	1.25	.83	.65	.92	.00	.00	13.75		
(2)	.14	.55	.97	1.01	1.71	1.61	1.01	.37	.60	.60	.83	.69	1.25	.83	.65	.92	.00	.00	13.75		
8-12	8	37	20	18	42	54	36	33	34	74	48	44	45	37	29	28	0	0	597		
(1)	.37	1.71	.92	.83	1.94	2.49	2.12	1.52	1.57	3.41	2.21	2.03	2.08	1.71	1.34	1.29	.00	.00	27.5		
(2)	.37	1.71	.92	.83	1.94	2.49	2.12	1.52	1.57	3.41	2.21	2.03	2.08	1.71	1.34	1.29	.00	.00	27.5		
13-18	17	23	19	16	14	12	21	19	95	207	176	106	65	42	27	19	0	0	878		
(1)	.78	1.06	.88	.74	.65	.55	.97	.88	4.38	9.55	8.12	4.89	3.00	1.94	1.25	.88	.00	.00	40.50		
(2)	.78	1.06	.88	.74	.65	.55	.97	.88	4.38	9.55	8.12	4.89	3.00	1.94	1.25	.88	.00	.00	40.50		
19-24	7	5	6	0	3	8	1	5	26	90	75	6	8	11	27	23	0	0	301		
(1)	.32	.23	.28	.00	.14	.37	.05	.23	1.20	4.15	3.46	.28	.37	.51	1.25	1.06	.00	.00	13.88		
(2)	.32	.23	.28	.00	.14	.37	.05	.23	1.20	4.15	3.46	.28	.37	.51	1.25	1.06	.00	.00	13.88		
GT 24	9	7	0	0	2	11	1	0	0	3	1	1	2	3	10	1	0	0	51		
(1)	.42	.32	.00	.00	.09	.51	.05	.00	.00	.14	.05	.05	.09	.14	.46	.05	.00	.00	2.35		
(2)	.42	.32	.00	.00	.09	.51	.05	.00	.00	.14	.05	.05	.09	.14	.46	.05	.00	.00	2.35		
ALL SPEEDS	44	87	70	57	105	126	93	66	171	390	323	175	150	111	109	91	0	0	2168		
(1)	2.03	4.01	3.23	2.63	4.84	5.81	4.29	3.04	7.89	17.99	14.90	8.07	6.92	5.12	5.03	4.20	.00	.00	100.00		
(2)	2.03	4.01	3.23	2.63	4.84	5.81	4.29	3.04	7.89	17.99	14.90	8.07	6.92	5.12	5.03	4.20	.00	.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 OCT97-DEC97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)																		
220.0 FT WIND DATA				STABILITY CLASS A				CLASS FREQUENCY (PERCENT) = 6.36										
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	0	6	3	1	1	0	0	0	0	0	0	1	1	0	3	0	0	16
(1)	.00	4.48	2.24	.75	.75	.00	.00	.00	.00	.00	.00	.75	.75	.00	1.4	.00	.00	11.94
(2)	.00	.28	.14	.05	.05	.00	.00	.00	.00	.00	.00	.05	.05	.00	.14	.00	.00	.76
8-12	5	5	7	1	0	4	2	0	1	0	0	1	11	13	4	5	0	59
(1)	3.73	3.73	5.22	.75	.00	2.99	1.49	.00	.75	.00	.00	.75	8.21	9.70	2.99	3.73	.00	44.03
(2)	.24	.24	.33	.05	.00	.19	.09	.00	.05	.00	.00	.05	.52	.62	.19	.24	.00	2.80
13-18	2	0	2	0	0	4	6	0	1	0	0	2	4	4	7	7	0	39
(1)	1.49	.00	1.49	.00	.00	2.99	4.48	.00	.75	.00	.00	1.49	2.99	2.99	5.22	5.22	.00	29.10
(2)	.09	.00	.09	.00	.00	.19	.28	.00	.05	.00	.00	.09	.19	.19	.33	.33	.00	1.85
19-24	2	0	0	0	1	0	0	0	0	0	0	0	4	4	1	5	0	17
(1)	1.49	.00	.00	.00	.75	.00	.00	.00	.00	.00	.00	.00	2.99	2.99	.75	3.73	.00	12.69
(2)	.09	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.19	.19	.05	.24	.00	.81
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.75	1.49	.00	.00	.00	2.24
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.00	.00	.00	.14
ALL SPEEDS	9	11	12	2	2	8	8	0	2	0	0	4	21	23	15	17	0	134
(1)	6.72	8.21	8.96	1.49	1.49	5.97	5.97	.00	1.49	.00	.00	2.99	15.67	17.16	11.19	12.69	.00	100.00
(2)	.43	.52	.57	.09	.09	.38	.38	.00	.09	.00	.00	.19	1.00	1.09	.71	.81	.00	6.36

220.0 FT WIND DATA																		
220.0 FT WIND DATA				STABILITY CLASS B				CLASS FREQUENCY (PERCENT) = 3.32										
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	0	1	0	1	0	0	0	0	0	0	0	1	1	1	0	1	0	6
(1)	.00	1.43	.00	1.43	.00	.00	.00	.00	.00	.00	.00	1.43	1.43	1.43	.00	1.43	.00	8.57
(2)	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.05	.05	.00	.05	.00	.28
8-12	0	1	1	0	2	2	0	0	0	1	2	4	1	1	0	0	0	15
(1)	.00	1.43	1.43	.00	2.86	2.86	.00	.00	.00	1.43	2.86	5.71	1.43	1.43	.00	.00	.00	21.43
(2)	.00	.05	.05	.00	.09	.09	.00	.00	.00	.05	.09	.19	.05	.05	.00	.00	.00	.71
13-18	0	0	1	0	0	0	2	0	2	0	0	5	4	4	1	1	0	20
(1)	.00	.00	1.43	.00	.00	.00	2.86	.00	2.86	.00	.00	7.14	5.71	5.71	1.43	1.43	.00	28.57
(2)	.00	.00	.05	.00	.00	.00	.09	.00	.09	.00	.00	.24	.19	.19	.05	.05	.00	.95
19-24	0	6	1	0	0	0	2	0	0	0	0	0	2	4	2	1	0	18
(1)	.00	8.57	1.43	.00	.00	.00	2.86	.00	.00	.00	.00	.00	2.86	5.71	2.86	1.43	.00	25.71
(2)	.00	.28	.05	.00	.00	.00	.09	.00	.00	.00	.00	.00	.09	.19	.09	.05	.00	.85
GT 24	1	1	1	0	0	0	0	0	0	0	0	0	1	5	2	1	0	11
(1)	1.43	1.43	1.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.43	7.14	1.43	1.43	.00	15.71
(2)	.05	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.24	.05	.05	.00	.52
ALL SPEEDS	1	9	4	1	2	2	4	0	2	1	2	10	9	15	4	4	0	70
(1)	1.43	12.86	5.71	1.43	2.86	2.86	5.71	.00	2.86	1.43	2.86	14.29	12.86	21.43	5.71	5.71	.00	100.00
(2)	.05	.43	.19	.05	.09	.09	.19	.00	.09	.05	.09	.47	.43	.71	.19	.19	.00	3.32

(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 OCT97-DEC97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA			STABILITY CLASS C						CLASS FREQUENCY (PERCENT) = .84											
		WIND DIRECTION FROM																		
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VBEL	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	0	0	1	1	2	1	0	0	0	0	1	2	2	0	4	1	0	15		
(1)	.00	.00	.98	.98	1.96	.98	.00	.00	.00	.00	.98	1.96	1.96	.00	3.92	.98	.00	14.71		
(2)	.00	.00	.05	.05	.09	.05	.00	.00	.00	.00	.05	.09	.09	.00	.19	.05	.00	.71		
8-12	1	0	0	1	1	0	0	1	1	0	1	9	4	1	1	0	0	21		
(1)	.98	.00	.00	.98	.98	.00	.00	.98	.98	.00	.98	8.82	3.92	.98	.98	.00	.00	20.59		
(2)	.05	.00	.00	.05	.05	.00	.00	.05	.05	.00	.05	.43	.19	.05	.05	.00	.00	1.00		
13-18	0	3	0	0	0	1	2	0	1	1	5	12	6	2	4	1	0	38		
(1)	.00	2.94	.00	.00	.00	.98	1.96	.00	.98	.98	4.90	11.76	5.88	1.96	3.92	.98	.00	37.25		
(2)	.00	.14	.00	.00	.00	.05	.09	.00	.05	.05	.24	.57	.28	.09	.19	.05	.00	1.80		
19-24	2	3	1	1	0	0	0	0	0	0	0	0	5	1	0	1	0	14		
(1)	1.96	2.94	.98	.98	.00	.00	.00	.00	.00	.00	.00	.00	4.90	.98	.00	.98	.00	13.73		
(2)	.09	.14	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.24	.05	.00	.05	.00	.66		
GT 24	0	6	1	1	0	0	0	0	0	0	0	2	1	3	0	0	0	14		
(1)	.00	5.88	.98	.98	.00	.00	.00	.00	.00	.00	.00	1.96	.98	2.94	.00	.00	.00	13.73		
(2)	.00	.28	.05	.05	.00	.00	.00	.00	.00	.00	.00	.09	.05	.14	.00	.00	.00	.66		
ALL SPEEDS	3	12	3	4	3	2	2	1	2	1	7	25	18	7	9	3	0	102		
(1)	2.94	11.76	2.94	3.92	2.94	1.96	1.96	.98	1.96	.98	6.86	24.51	17.65	6.86	8.82	2.94	.00	100.00		
(2)	.14	.57	.14	.19	.14	.09	.09	.05	.09	.05	.33	1.19	.85	.33	.43	.14	.00	4.84		

220.0 FT WIND DATA		STABILITY CLASS D						CLASS FREQUENCY (PERCENT) = 32.92													
		WIND DIRECTION FROM																			
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW			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	3	0	1	3	0	0	0	1	0	0	0	0	2	0	0	10		
(1)		.00	.00	.43	.00	.14	.43	.00	.00	.00	.14	.00	.00	.00	.00	.29	.00	.00	1.44		
(2)		.00	.00	.14	.00	.05	.14	.00	.00	.00	.05	.00	.00	.00	.00	.09	.00	.00	.47		
4-7		1	4	1	5	3	3	5	1	5	4	5	7	5	3	3	1	0	56		
(1)		.14	.58	.14	.72	.43	.43	.72	.14	.72	.58	.72	1.01	.72	.43	.43	.14	.00	8.07		
(2)		.05	.19	.05	.24	.14	.14	.24	.05	.24	.19	.24	.33	.24	.14	.14	.05	.00	2.66		
8-12		3	3	0	5	9	3	2	5	1	8	10	24	9	16	7	3	0	108		
(1)		.43	.43	.00	.72	1.30	.43	.29	.72	.14	1.15	1.44	3.46	1.30	2.31	1.01	.43	.00	15.56		
(2)		.14	.14	.00	.24	.43	.14	.09	.24	.05	.38	.47	1.14	.43	.76	.33	.14	.00	5.12		
13-18		7	8	5	5	5	12	5	3	8	11	12	27	24	10	11	5	0	158		
(1)		1.01	1.15	.72	.72	.72	1.73	.72	.43	1.15	1.59	1.73	3.89	3.46	1.44	1.59	.72	.00	22.77		
(2)		.33	.38	.24	.24	.24	.57	.24	.14	.38	.47	.57	1.28	1.14	.47	.52	.24	.00	7.50		
19-24		7	21	13	10	3	9	1	0	2	3	8	15	17	19	21	6	0	185		
(1)		1.01	3.03	1.87	1.44	.43	1.30	.14	.00	.29	.43	1.15	2.16	2.45	2.74	3.03	.86	.00	22.33		
(2)		.33	1.00	.62	.47	.14	.43	.05	.00	.09	.14	.38	.71	.81	.90	1.00	.28	.00	7.35		
GT 24		19	26	27	11	10	2	3	0	0	6	1	4	18	57	16	7	0	207		
(1)		2.74	3.75	3.89	1.59	1.44	.29	.43	.00	.00	.86	.14	.58	2.59	8.21	2.31	1.01	.00	29.83		
(2)		.50	1.23	1.28	.52	.47	.09	.14	.00	.00	.28	.05	.19	.85	2.70	.76	.33	.00	9.82		
ALL SPEEDS		37	62	49	36	31	32	16	9	16	33	36	77	73	105	60	22	0	694		
(1)		5.33	8.93	7.06	5.19	4.47	4.61	2.31	1.30	2.31	4.76	5.19	11.10	10.52	15.13	8.65	3.17	.00	100.00		
(2)		1.76	2.94	2.32	1.71	1.47	1.52	.76	.43	.76	1.57	1.71	3.65	3.46	4.98	2.85	1.04	.00	32.92		

(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 OCT97-DEC97 MM" DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS E						CLASS FREQUENCY (PERCENT) = 36.72													
		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	1	0	0	0	0	1		
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	.00	.10	.13		
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	0	.05		
C-3		0	0	1	2	4	3	0	0	3	1	0	1	3	2	0	0	0	20		
(1)		.00	.00	.13	.26	.52	.39	.00	.00	.39	.13	.00	.13	.39	.26	.00	.00	.00	2.58		
(2)		.00	.00	.05	.09	.19	.14	.05	.00	.14	.05	.00	.05	.14	.09	.00	.00	.00	.95		
4-7		1	2	2	1	5	5	8	3	4	3	2	8	5	5	5	1	0	60		
(1)		.13	.26	.26	.13	.65	.65	1.03	.39	.52	.39	.26	1.03	.65	.65	.65	.13	.00	7.75		
(2)		.05	.09	.09	.05	.24	.24	.38	.14	.19	.14	.09	.38	.24	.24	.14	.05	.00	2.85		
8-12		0	3	3	5	6	13	15	3	6	16	10	28	15	29	17	5	0	175		
(1)		.00	.39	.39	.78	.78	1.68	1.94	.39	.78	2.07	1.29	3.62	1.94	3.75	2.20	.65	.00	22.61		
(2)		.00	.14	.14	.28	.28	.62	.71	.14	.28	.76	.47	1.33	.71	1.38	.81	.24	.00	8.30		
13-18		3	1	3	3	2	7	28	15	17	17	34	55	49	42	38	5	0	319		
(1)		.39	.13	.39	.39	.26	.90	3.62	1.94	2.20	2.20	4.72	7.11	6.33	5.43	4.91	.65	.00	41.21		
(2)		.14	.05	.14	.14	.09	.33	1.33	.71	.81	.81	1.61	2.61	2.32	1.99	1.80	.24	.00	15.13		
19-24		0	1	0	0	0	3	9	4	4	19	22	26	17	22	7	8	0	142		
(1)		.00	.13	.00	.00	.00	.39	1.16	.52	.52	2.45	2.84	3.36	2.20	2.84	.90	1.03	.00	18.35		
(2)		.00	.05	.00	.00	.00	.14	.43	.19	.19	.90	1.04	1.23	.81	1.04	.33	.38	.00	6.74		
GT 24		3	0	2	2	16	6	4	0	1	1	0	1	3	16	1	1	0	57		
(1)		.39	.00	.26	.26	2.07	.78	.52	.00	.13	.13	.00	.13	.39	2.07	.13	.13	.00	7.30		
(2)		.14	.00	.09	.09	.76	.28	.19	.00	.05	.05	.00	.05	.14	.76	.05	.05	.00	2.70		
ALL SPEEDS		7	7	11	14	33	37	64	25	35	57	68	119	93	116	68	20	0	774		
(1)		.90	.90	1.42	1.81	4.26	4.78	8.27	3.23	4.52	7.36	8.79	15.37	12.02	14.99	8.79	2.58	.00	100.00		
(2)		.33	.33	.52	.66	1.57	1.76	3.04	1.19	1.66	2.70	3.23	5.65	4.41	5.50	3.23	.95	.00	36.72		

220.0 FT WIND DATA		STABILITY CLASS F						CLASS FREQUENCY (PERCENT) = 13.57													
		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		
(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	1	0	1	0	1	0	0	2	0	0	0	0	6		
(1)		.00	.00	.00	.00	.35	.35	.00	.25	.00	.35	.00	.00	.70	.00	.00	.00	.00	2.10		
(2)		.00	.00	.00	.00	.05	.05	.00	.05	.00	.05	.00	.00	.09	.00	.00	.00	.00	.28		
4-7		0	1	1	3	2	4	11	1	1	1	7	4	5	4	1	3	0	49		
(1)		.00	.35	.35	1.05	.70	1.40	3.85	.35	.35	.35	2.45	1.40	1.75	1.40	.35	1.05	.00	17.13		
(2)		.00	.05	.05	.14	.09	.19	.52	.05	.05	.05	.33	.19	.24	.19	.05	.14	.00	2.32		
8-12		0	0	0	0	1	4	4	8	4	5	13	17	7	11	12	5	0	91		
(1)		.00	.00	.00	.00	.35	1.40	1.40	2.80	1.40	1.75	4.55	5.94	2.45	3.85	4.20	1.75	.00	31.82		
(2)		.00	.00	.00	.00	.05	.19	.19	.38	.19	.24	.67	.81	.33	.52	.57	.24	.00	4.32		
13-18		0	0	0	0	0	1	7	11	4	7	11	28	25	4	4	2	0	104		
(1)		.00	.00	.00	.00	.00	.35	2.45	3.85	1.40	2.45	3.85	9.79	8.74	1.40	1.40	.70	.00	36.36		
(2)		.00	.00	.00	.00	.00	.05	.33	.52	.19	.33	.52	1.33	1.19	.19	.19	.09	.00	4.93		
19-24		0	0	0	0	0	0	0	1	0	0	11	4	5	7	1	1	0	28		
(1)		.00	.00	.00	.00	.00	.00	.00	.35	.00	.00	3.85	1.40	1.05	2.45	.35	.35	.00	9.79		
(2)		.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.52	.19	.14	.33	.05	.05	.00	1.33		
GT 24		0	0	0	0	0	0	0	0	0	1	6	0	0	1	0	0	0	8		
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.35	2.10	.00	.00	.35	.00	.00	.00	2.80		
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.28	.00	.00	.05	.00	.00	.00	.38		
ALL SPEEDS		0	1	1	3	4	10	22	22	9	15	48	53	42	27	18	11	0	285		
(1)		.00	.35	.35	1.05	1.40	3.50	7.69	7.69	3.15	5.24	16.78	18.53	14.69	9.44	6.29	3.85	.00	100.00		
(2)		.00	.05	.05	.14	.19	.47	1.04	1.04	.43	.71	2.28	2.51	1.99	1.28	.85	.52	.00	13.57		

(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 OCT97-DEC97 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G										CLASS FREQUENCY (PERCENT) = 2.28									
		WIND DIRECTION FROM																			
SPEED (MPH)		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VEBL	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	0	0	0	0	3		
(1)		.00	.00	.00	.00	.00	.00	2.08	2.08	.00	.00	.00	.00	2.08	.00	.00	.00	.00	6.25		
(2)		.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.05	.00	.00	.00	.00	.14		
4-7		0	0	0	0	1	0	0	0	0	0	0	1	1	2	0	0	0	5		
(1)		.00	.00	.00	.00	2.08	.00	.00	.00	.00	.00	.00	2.08	2.08	4.17	.00	.00	.00	10.42		
(2)		.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	.05	.09	.00	.00	.00	.24		
8-12		0	0	0	0	0	0	0	0	2	0	2	5	5	3	0	1	0	18		
(1)		.00	.00	.00	.00	.00	.00	.00	.00	4.17	.00	4.17	10.42	10.42	6.25	.00	2.08	.00	37.50		
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.09	.24	.24	.14	.00	.05	.00	.85		
13-18		0	0	0	0	0	0	0	0	0	1	1	4	7	1	1	0	0	15		
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	2.08	2.08	8.33	14.58	2.08	2.08	.00	.00	31.25		
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.19	.33	.05	.05	.00	.00	.71		
19-24		0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	1	0	5		
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.17	2.08	.00	2.08	.00	2.08	.00	10.42		
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.05	.00	.05	.00	.05	.00	.24		
GT 24		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	4.17	.00	.00	.00	.00	.00	.00	4.17		
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09		
ALL SPEEDS		0	0	0	0	1	0	1	1	2	1	7	11	14	7	1	2	0	48		
(1)		.00	.00	.00	.00	2.08	.00	2.08	2.08	4.17	2.08	14.58	22.92	29.17	14.58	2.08	4.17	.00	100.00		
(2)		.00	.00	.00	.00	.05	.00	.05	.05	.09	.05	.33	.52	.66	.33	.5	.09	.00	2.28		

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	1	0	0	0	0	1			
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05			
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05			
C-3		0	0	4	2	6	7	1	2	3	3	0	1	6	2	2	0	0	39			
(1)		.00	.00	.19	.09	.28	.33	.05	.09	.14	.14	.00	.05	.28	.09	.09	.00	.00	1.85			
(2)		.00	.00	.19	.09	.28	.33	.05	.09	.14	.14	.00	.05	.28	.09	.09	.00	.00	1.85			
4-7		2	14	8	12	14	13	24	5	10	8	15	24	20	15	16	7	0	207			
(1)		.09	.66	.38	.57	.66	.62	1.14	.24	.47	.38	.71	1.14	.95	.71	.76	.33	.00	9.82			
(2)		.09	.66	.38	.57	.66	.62	1.14	.24	.47	.38	.71	1.14	.95	.71	.76	.33	.00	9.82			
8-12		9	12	11	13	19	26	23	17	15	30	38	88	52	74	41	19	0	487			
(1)		.43	.57	.52	.62	.90	1.23	1.09	.81	.71	1.42	1.80	4.17	2.47	3.51	1.94	.90	.00	23.10			
(2)		.43	.57	.52	.62	.90	1.23	1.09	.81	.71	1.42	1.80	4.17	2.47	3.51	1.94	.90	.00	23.10			
13-18		12	12	11	8	7	25	50	29	33	37	63	133	119	67	66	21	0	693			
(1)		.57	.57	.52	.38	.33	1.19	2.37	1.38	1.57	1.76	2.99	6.31	5.65	3.18	3.13	1.00	.00	32.87			
(2)		.57	.57	.52	.38	.33	1.19	2.37	1.38	1.57	1.76	2.99	6.31	5.65	3.18	3.13	1.00	.00	32.87			
19-24		11	31	15	11	4	12	12	5	6	22	43	46	48	58	32	23	0	379			
(1)		.52	1.47	.71	.52	.19	.57	.57	.24	.28	1.04	2.04	2.18	2.28	2.75	1.52	1.09	.00	17.96			
(2)		.52	1.47	.71	.52	.19	.57	.57	.24	.28	1.04	2.04	2.18	2.28	2.75	1.52	1.09	.00	17.96			
GT 24		23	33	31	14	26	8	7	0	1	8	9	7	24	84	18	9	0	302			
(1)		1.09	1.57	1.47	.66	1.23	.38	.33	.00	.05	.38	.43	.33	1.14	3.98	.85	.43	.00	14.33			
(2)		1.09	1.57	1.47	.66	1.23	.38	.33	.00	.05	.38	.43	.33	1.14	3.98	.85	.43	.00	14.33			
ALL SPEEDS		57	102	80	60	76	91	117	58	68	108	168	299	270	300	175	79	0	2108			
(1)		2.70	4.84	3.80	2.85	3.61	4.32	5.55	2.75	3.23	5.12	7.97	14.18	12.81	14.23	8.30	3.75	.00	100.00			
(2)		2.70	4.84	3.80	2.85	3.61	4.32	5.55	2.75	3.23	5.12	7.97	14.18	12.81	14.23	8.30	3.75	.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. 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, December 1974.
2. T. Messier memorandum to K.J. Sejkora, "Documentation for Calculation of 3rd and 4th Quarter 1997 JFD Tables for Pilgrim Station", dated February 13, 1998.