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Pilgrim Nuclear Power Station
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PNPS TS Section 5.6.3
Reg. Guide 1.21

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The enclosed 2000 annual "Radioactive Effluent and Waste Disposal Report" is submitted in accordance with Pilgrim Nuclear Power Station Technical Specification 5.6.3.

Sincerely,

A handwritten signature in black ink, appearing to read "J.F. Alexander".

J.F. Alexander

PMK/
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PILGRIM NUCLEAR POWER STATION

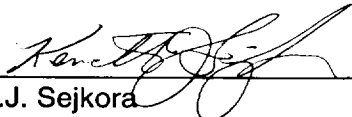
Radioactive Effluent and Waste Disposal Report

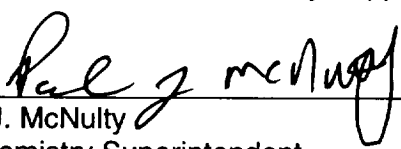
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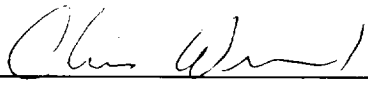




PILGRIM NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT
JANUARY 01 THROUGH DECEMBER 31, 2000

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Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
January-December 2000

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EXECUTIVE SUMMARY

PILGRIM NUCLEAR POWER STATION RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT INCLUDING METEOROLOGICAL DATA JANUARY 01 THROUGH DECEMBER 31, 2000

INTRODUCTION

This report quantifies the radioactive gaseous, liquid, and radwaste releases, and summarizes the local meteorological data for the period from January 01 through December 31, 2000. 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".

In July 1999, ownership and control of Pilgrim Station was transferred from Boston Edison Company to Entergy Nuclear Generation Company. Although the operating license of the plant was transferred with the ownership, no changes were made in the operation of the plant which would affect the releases of radioactivity to the environment, as summarized in this report.

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.

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 2.2-A, 2.2-B, and 2.2-C. Radioactive noble gases released during the period totaled 1070 Curies. Releases of radioactive particulates and iodines totaled 0.015 Curies, and tritium releases totaled 88 Curies. No gross alpha radioactivity was detected in gaseous effluents.

Noble gases released in gaseous effluents resulted in a maximum total body dose of 0.13 mrem, with a corresponding skin dose of 0.98 mrem. The release of radioactivity in gaseous effluents from PNPS during 2000 resulted in a total body dose to the maximum-exposed hypothetical individual of about 0.63 mrem from radioactive particulates, iodines, and tritium. The maximum hypothetical dose to any organ from radioactive particulates, iodines, and tritium was about 0.79 mrem. All of these maximum doses occurred to a hypothetical individual located on property under Entergy control. The maximum, hypothetical total body dose from the combined release of radioactivity in gaseous effluents was 0.79 mrem. The cumulative total body dose to the entire population within 50 miles of PNPS from combined gaseous effluents was about 0.58 person-rem. The average individual living within 50 miles of PNPS received a total body dose of about 0.00014 mrem from combined gaseous effluents released during 2000.

The maximum individual doses from gaseous radioactive effluents were compared to the applicable ODCM dose limits. Noble gas doses were less than 7% of the corresponding 10CFR50 dose objectives. Maximum doses resulting from releases of particulates, iodines, and tritium in gaseous effluents were less than 6% of corresponding 10CFR50 objectives.

During review of several years of past analytical results for strontium-89 and strontium-90 releases in gaseous effluents, an error was identified in the results provided for the fourth quarter of 1999. The error involved an incorrect sample collection time used for decay-correcting the analytical results, resulting in an 86% increase in the activity value for Sr-89. Since no Sr-90 was detected during the period, there was no impact on the results for this nuclide. No other nuclides were affected by this error. Revised tables showing the updated values for gaseous effluent releases are included in Appendix D. A vertical bar in the right margin of each page indicates the updated section.

An analysis was performed to assess the impact of the erroneous Sr-89 value used in the 1999 dose assessments. Since Sr-89 accounted for only a minor portion of the total activity in gaseous effluent during the period, its contribution to the maximum organ dose was less than 1% of the value of 1.01E-01 mrem reported for the fourth quarter of 1999.

LIQUID EFFLUENTS

Liquid radioactive releases for the reporting period are quantified in Tables 2.3-A and 2.3-B. Liquid effluents released into the discharge canal contained 0.21 Curies of fission and activation products, and 10.7 Curies of tritium. No dissolved/entrained noble gases or gross alpha radioactivity were detected in liquid effluents.

The release of radioactivity in liquid effluents from PNPS during 2000 resulted in a total body dose of about 0.01 mrem to the maximum-exposed hypothetical individual. The maximum hypothetical dose to any organ from liquid effluents was about 0.058 mrem. The cumulative total body dose from liquid effluents to the entire population within 50 miles of PNPS was about 0.102 person-rem. The average individual living within 50 miles of PNPS received a total body dose of about 0.000025 mrem from liquid effluents released during 2000.

The maximum individual doses from liquid radioactive effluents were compared to the applicable ODCM dose limits. All doses from liquid effluents were less than 2% of their corresponding effluent control limit. In addition, all quarterly average concentrations of radioactivity in liquids released to Cape Cod Bay were less than 0.4% of the corresponding limits.

METEOROLOGICAL DATA

Meteorological joint frequency distributions are listed in Appendix A. The data recovery for the annual reporting period was 92%. The predominant wind direction was from the south-southwest, which occurred approximately 13% of the time during the reporting period. The predominant stability class was Class E, which occurred about 36% of the time during the reporting period.

OFFSITE AMBIENT RADIATION MEASUREMENTS

Ambient radiation exposure was evaluated to complete the assessment of radiological impact on humans. A small number of thermoluminescent dosimeters (TLDs) indicated an increase in ambient radiation exposure on Entergy property in close proximity to the station, resulting from nitrogen-16 contained within the plant steam system. The dose to a hypothetical member of the public accessing such areas on Entergy property during 2000 was estimated as being about 2.4 mrem. There was no measurable increase during 2000 in ambient radiation measurements at the location of the nearest resident to PNPS.

The collective total body dose to a maximum-exposed hypothetical individual from radioactive gases, liquids, and ambient exposure resulting from PNPS operation during 2000 was calculated as being 3.2 mrem. This amount is about 1% of the typical dose of 300 to 400 mrem received each year by an average person from other sources of natural and man-made radiation. Although this calculated collective dose occurs to a maximum-exposed hypothetical individual, it is also well below the NRC dose limit of 100 mrem/yr specified in 10CFR20.1301, as well as the EPA dose limit of 25 mrem/yr specified in 40CFR190. Both of these limits are to be applied to real members of the general public, so the fact that the dose to the hypothetical maximum-exposed individual is within the limits ensures that any dose received by a real member of the public would be smaller and well within any applicable limit.

RADIOACTIVE SOLID WASTE DISPOSAL

Solid radioactive waste shipped offsite for processing and disposal during the reporting period is described in Table 8.0. Approximately 951 cubic meters of solid waste, containing 1590 Curies of radioactivity, were shipped during the reporting period.

CONCLUSION

The PNPS Offsite Dose Calculation Manual contains effluent controls to limit doses resulting from releases of radioactivity to the environment. None of the effluent controls associated with liquid or gaseous effluents were exceeded during the reporting period, as confirmed by conservative dose assessments performed at weekly and monthly intervals. Conformance to the PNPS ODCM effluent control limits 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 ODCM also demonstrates that requirements of the Environmental Protection Agency's nuclear fuel cycle standard, 40CFR190.10, Subpart B, have been met. Based on the dose assessment results for 2000, there was no significant radiological impact on the general public from PNPS operation.

2.0 RADIOACTIVE EFFLUENT DATA

Radioactive gaseous and liquid releases for the reporting period are given in the standard format presented in Tables 1A, 1B, 1C, 2A, 2B, and Supplemental Information table from NRC Regulatory Guide 1.21 (Reference 1) format.

2.1 Supplemental Effluent Release Data

Supplemental information related to radioactive gaseous and liquid releases for the reporting period are given in the standard NRC Regulatory Guide 1.21 format in Table 2.1.

2.2 Gaseous Effluent Data

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 2.2-A. 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: 663 Ci, 21 μ Ci/sec
- Particulates and iodines with half-life greater than 8 days 0.015 Ci, 0.00048 μ Ci/sec
- Tritium: 88 Ci, 2.8 μ Ci/sec

Effluent releases from the main stack are detailed in Table 2.2-B. 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 2.2-C. 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 the period. Due to the close proximity of the reactor building, both of these release points are considered to be mixed-mode/ground level release points.

During the period of 06-08 October 2000, problems occurred with a loop seal in the augmented offgas (AOG) system which processes radioactive gaseous emissions. The AOG functions primarily by holding up radioactive noble gases coming from the main condenser air ejector, allowing them to undergo radioactive decay prior to being released via the Main Stack. The problem with the loop seal allowed small amounts of noble gases to be released into the offgas retention building. This building is ventilated via the reactor building ventilation system. Radiation monitors on the ventilation system alerted PNPS personnel of the increased offgas activity, and samples were collected and analyzed. This event was treated as an abnormal release, and time-specific meteorology was applied to calculate dose impact from this event. Noble gas releases associated with this event are summarized in Table 2.2-C, for the period of October-December 2000.

2.3 Liquid Effluent Data

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 2.3-A. Detailed breakdowns for individual radionuclides are listed in Table 2.3-B. 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: 874,000 Liters
- Total Dilution Volume: 5,090,000,000 Liters
- Fission/Activation products: 0.21 Ci, 0.000000042 μ Ci/mL
- Tritium: 10.7 Ci, 0.0000021 μ Ci/mL
- Dissolved/entrained noble gases: Not Detected

Table 2.1
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Supplemental Information
January-June 2000

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
- b. Iodines: for all gamma emitters; radiochemistry
- c. Particulates: analysis for H-3, Fe-55 (liquid effluents),
- d. Liquid effluents: Sr-89, and Sr-90

5. BATCH RELEASES

- a. Liquid Effluents
 - 1. Total number of releases: 1.40E+01
 - 2. Total time period (minutes): 8.05E+02
 - 3. Maximum time period (minutes): 1.25E+02
 - 4. Average time period (minutes): 5.75E+01
 - 5. Minimum time period (minutes): 2.50E+01
 - 6. Average stream flow (Liters/min): 1.17E+06
 during periods of release of effluents into a flowing stream

	Jan-Mar 2000	Apr-Jun 2000
	1.40E+01	1.70E+01
	8.05E+02	1.09E+03
	1.25E+02	2.00E+02
	5.75E+01	6.41E+01
	2.50E+01	2.50E+01
	1.17E+06	1.17E+06
	None	None
	None	None
	None	None

6. ABNORMAL RELEASES

- a. Liquid Effluents
- b. Gaseous Effluents

Table 2.1 (continued)
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Supplemental Information
 July-December 2000

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 µCi/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
- b. Iodines: for all gamma emitters; radiochemistry
- c. Particulates: analysis for H-3, Fe-55 (liquid effluents),
- d. Liquid effluents: Sr-89, and Sr-90

5. BATCH RELEASES

- a. Liquid Effluents
 - 1. Total number of releases: 2.60E+01
 - 2. Total time period (minutes): 2.02E+03
 - 3. Maximum time period (minutes): 1.95E+02
 - 4. Average time period (minutes): 7.77E+01
 - 5. Minimum time period (minutes): 2.50E+01
 - 6. Average stream flow (Liters/min): 1.17E+06
 during periods of release of effluents into a flowing stream

	Jul-Sep 2000	Oct-Dec 2000
	2.60E+01	1.00E+01
	2.02E+03	4.27E+02
	1.95E+02	1.50E+02
	7.77E+01	4.27E+01
	2.50E+01	2.20E+01
	1.17E+06	1.17E+06
	None	None
	None	None
	None	1: Oct 6-8, 2000

6. ABNORMAL RELEASES

- a. Liquid Effluents
- b. Gaseous Effluents

Table 2.2-A
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Summation of All Releases
January-June 2000

Period: Jan-Mar 2000	Period: Apr-Jun 2000	Estimated Total Error
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A. FISSION AND ACTIVATION GASES

Total Release: Ci	1.24E+02	1.72E+02	±22%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	1.57E+01	2.18E+01	
Percent of Effluent Control Limit	*	*	

B. IODINES

Total Iodine-131 Release: Ci	3.44E-04	4.09E-04	±20%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	4.36E-05	5.18E-05	
Percent of Effluent Control Limit	*	*	

C. PARTICULATES

Total Release: Ci	5.72E-04	7.34E-04	±21%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	7.25E-05	9.30E-05	
Percent of Effluent Control Limit	*	*	
Gross Alpha Radioactivity: Ci	NDA	NDA	

D. TRITIUM

Total Release: Ci	1.16E+01	1.95E+01	±20%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	1.47E+00	2.47E+00	
Percent of Effluent Control Limit	*	*	

Notes for Table 2.2-A:

* Percent of Effluent Control Limit values based on dose assessments are provided in Section 7 of this report.

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

Table 2.2-A (continued)
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Summation of All Releases
July-December 2000

Period: Jul-Sep 2000	Period: Oct-Dec 2000	Estimated Total Error
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A. FISSION AND ACTIVATION GASES

Total Release: Ci	1.74E+02	1.93E+02	±22%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	2.21E+01	2.44E+01	
Percent of Effluent Control Limit	*	*	

B. IODINES

Total Iodine-131 Release: Ci	4.64E-04	4.02E-04	±20%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	5.88E-05	5.10E-05	
Percent of Effluent Control Limit	*	*	

C. PARTICULATES

Total Release: Ci	5.75E-04	8.13E-04	±21%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	7.29E-05	1.03E-04	
Percent of Effluent Control Limit	*	*	
Gross Alpha Radioactivity: Ci	NDA	NDA	

D. TRITIUM

Total Release: Ci	2.26E+01	3.44E+01	±20%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	2.87E+00	4.36E+00	
Percent of Effluent Control Limit	*	*	

Notes for Table 2.2-A:

* Percent of Effluent Control Limit values based on dose assessments are provided in Section 7 of this report.

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

Table 2.2-B
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Gaseous Effluents - Elevated Release
 January-June 2000

Nuclide Released	Continuous Mode		Batch Mode	
	Jan-Mar 2000	Apr-Jun 2000	Jan-Mar 2000	Apr-Jun 2000

1. FISSION AND ACTIVATION GASES - Ci

Ar-41	1.53E+00	2.54E+00	N/A	N/A
Kr-85m	2.52E+01	3.02E+01	N/A	N/A
Kr-87	1.48E+01	2.10E+01	N/A	N/A
Kr-88	4.07E+01	7.00E+01	N/A	N/A
Xe-133	2.05E+01	2.10E+01	N/A	N/A
Xe-135	1.55E+01	1.91E+01	N/A	N/A
Xe-135m	NDA	2.14E+00	N/A	N/A
Total for period	1.18E+02	1.66E+02	N/A	N/A

2. IODINES - Ci

I-131	1.75E-04	1.90E-04	N/A	N/A
I-133	9.04E-04	1.19E-03	N/A	N/A
Total for period	1.08E-03	1.38E-03	N/A	N/A

3. PARTICULATES - Ci

Mn-54	7.65E-07	NDA	N/A	N/A
Co-60	3.01E-06	2.20E-06	N/A	N/A
Sr-89	3.14E-05	3.70E-05	N/A	N/A
Sr-90	5.71E-07	NDA	N/A	N/A
Cs-137	3.29E-07	9.57E-07	N/A	N/A
Ba/La-140	3.39E-04	3.57E-04	N/A	N/A
Total for period	3.75E-04	3.97E-04	N/A	N/A

4. TRITIUM - Ci

H-3	9.15E-01	1.78E+00	N/A	N/A
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Notes for Table 2.2-B:

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 2.2-B (continued)
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Gaseous Effluents - Elevated Release
 July-December 2000

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 2000	Oct-Dec 2000	Jul-Sep 2000	Oct-Dec 2000

1. FISSION AND ACTIVATION GASES - Ci

Ar-41	2.98E+00	7.27E+00	N/A	N/A
Kr-85m	2.97E+01	3.84E+01	N/A	N/A
Kr-87	2.63E+01	2.26E+01	N/A	N/A
Kr-88	7.05E+01	5.61E+01	N/A	N/A
Xe-133	1.98E+01	2.65E+01	N/A	N/A
Xe-135	2.11E+01	5.07E+00	N/A	N/A
Xe-135m	2.60E-01	NDA	N/A	N/A
Total for period	1.71E+02	1.56E+02	N/A	N/A

2. IODINES - Ci

I-131	2.75E-04	2.85E-04	N/A	N/A
I-133	1.56E-03	1.20E-03	N/A	N/A
Total for period	1.84E-03	1.49E-03	N/A	N/A

3. PARTICULATES - Ci

Mn-54	2.28E-07	9.30E-07	N/A	N/A
Co-60	2.67E-06	6.51E-05	N/A	N/A
Sr-89	2.72E-05	6.12E-05	N/A	N/A
Ru-103	NDA	3.29E-07	N/A	N/A
Cs-137	2.31E-06	4.01E-06	N/A	N/A
Ba/La-140	2.69E-04	2.56E-04	N/A	N/A
Total for period	3.01E-04	3.87E-04	N/A	N/A

4. TRITIUM - Ci

H-3	2.13E+00	3.01E+00	N/A	N/A
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Notes for Table 2.2-B:

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 2.2-C
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Ground Level Release
January-June 2000

Nuclide Released	Continuous Mode		Batch Mode	
	Jan-Mar 2000	Apr-Jun 2000	Jan-Mar 2000	Apr-Jun 2000

1. FISSION AND ACTIVATION GASES - Ci

Xe-135	4.44E+00	5.60E+00	N/A	N/A
Xe-135m	1.60E+00	1.88E-01	N/A	N/A
Total for period	6.04E+00	5.79E+00	N/A	N/A

2. IODINES - Ci

I-131	1.69E-04	2.18E-04	N/A	N/A
I-133	1.51E-03	2.04E-03	N/A	N/A
Total for period	1.68E-03	2.26E-03	N/A	N/A

3. PARTICULATES - Ci

Cr-51	NDA	3.32E-05	N/A	N/A
Mn-54	6.23E-06	3.24E-08	N/A	N/A
Co-58	2.54E-07	NDA	N/A	N/A
Co-60	2.63E-05	1.01E-05	N/A	N/A
Sr-89	9.82E-05	9.65E-05	N/A	N/A
Ru-103	NDA	1.43E-06	N/A	N/A
Cs-137	2.00E-05	1.38E-05	N/A	N/A
Ba/La-140	4.62E-05	1.82E-04	N/A	N/A
Total for period	1.97E-04	3.37E-04	N/A	N/A

4. TRITIUM - Ci

H-3	1.07E+01	1.77E+01	N/A	N/A
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Notes for Table 2.2-C:

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 2.2-C (continued)
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Gaseous Effluents - Ground Level Release
 July-December 2000

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 2000	Oct-Dec 2000	Jul-Sep 2000	Oct-Dec 2000

1. FISSION AND ACTIVATION GASES - Ci

Kr-85m	NDA	NDA	N/A	3.75E-01
Kr-87	NDA	1.29E+00	N/A	1.65E+00
Xe-135	1.83E+00	1.40E+01	N/A	2.17E+00
Xe-135m	NDA	6.95E+00	N/A	1.93E+00
Xe-137	1.56E+00	1.23E+00	N/A	NDA
Xe-138	NDA	NDA	N/A	7.18E+00
Total for period	3.39E+00	2.34E+01	N/A	1.33E+01

2. IODINES - Ci

I-131	1.89E-04	1.17E-04	N/A	N/A
I-133	1.67E-03	8.43E-04	N/A	N/A
Total for period	1.86E-03	9.60E-04	N/A	N/A

3. PARTICULATES - Ci

Cr-51	2.01E-05	NDA	N/A	N/A
Mn-54	1.36E-06	NDA	N/A	N/A
Co-60	1.35E-05	1.31E-05	N/A	N/A
Sr-89	7.47E-05	2.23E-04	N/A	N/A
Ru-103	1.52E-06	2.82E-06	N/A	N/A
Cs-137	1.76E-05	3.75E-05	N/A	N/A
Ba/La-140	1.45E-04	1.49E-04	N/A	N/A
Total for period	2.74E-04	4.25E-04	N/A	N/A

4. TRITIUM - Ci

H-3	2.05E+01	3.14E+01	N/A	N/A
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Notes for Table 2.2-C:

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 2.3-A
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Liquid Effluents - Summation of All Releases
January-June 2000

Period: Jan-Mar 2000	Period: Apr-Jun 2000	Estimated Total Error
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A. FISSION AND ACTIVATION PRODUCTS

Total Release (not including H-3, noble gas, or alpha): Ci	1.90E-03	7.97E-04	±12%
Average Diluted Concentration During Period: μCi/mL	2.02E-09	6.23E-10	
Percent of Effluent Concentration Limit*	3.31E-02%	2.65E-02%	

B. TRITIUM

Total Release: Ci	2.79E+00	4.52E-02	±9.4%
Average Diluted Concentration During Period: μCi/mL	2.96E-06	3.53E-08	
Percent of Effluent Concentration Limit*	2.96E-01%	3.53E-03%	

C. DISSOLVED AND ENTRAINED GASES

Total Release: Ci	NDA	NDA	±16%
Average Diluted Concentration During Period: μCi/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	1.85E+05	7.76E+04	±5.7%
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F. VOLUME OF DILUTION WATER USED DURING PERIOD

Dilution Volume: Liters	9.45E+08	1.28E+09	±10%
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Notes for Table 2.3-A:

* Additional percent of Effluent Control Limit values based on dose assessments are provided in Section 7 of this report.

1. NDA stands for No Detectable Activity.
2. LLD for dissolved and entrained gases listed as NDA is 1E-05 μCi/mL.
3. LLD for liquid gross alpha activity listed as NDA is 1E-07 μCi/mL.

Table 2.3-A (continued)
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Liquid Effluents - Summation of All Releases
July-December 2000

	Period: Jul-Sep 2000	Period: Oct-Dec 2000	Estimated Total Error
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A. FISSION AND ACTIVATION PRODUCTS

Total Release (not including H-3, noble gas, or alpha): Ci	2.10E-01	1.87E-03	±12%
Average Diluted Concentration During Period: μCi/mL	8.89E-08	3.74E-09	
Percent of Effluent Concentration Limit*	2.39E-01%	3.04E-01%	

B. TRITIUM

Total Release: Ci	7.77E+00	5.11E-02	±9.4%
Average Diluted Concentration During Period: μCi/mL	3.29E-06	1.02E-07	
Percent of Effluent Concentration Limit*	3.29E-01%	1.02E-02%	

C. DISSOLVED AND ENTRAINED GASES

Total Release: Ci	NDA	NDA	±16%
Average Diluted Concentration During Period: μCi/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	5.94E+05	1.80E+04	±5.7%
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F. VOLUME OF DILUTION WATER USED DURING PERIOD

Dilution Volume: Liters	2.36E+09	5.01E+08	±10%
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Notes for Table 2.3-A:

* Additional percent of Effluent Control Limit values based on dose assessments are provided in Section 7 of this report.

1. NDA stands for No Detectable Activity.
2. LLD for dissolved and entrained gases listed as NDA is 1E-05 μCi/mL.
3. LLD for liquid gross alpha activity listed as NDA is 1E-07 μCi/mL.

Table 2.3-B
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Liquid Effluents
January-June 2000

Nuclide Released	Continuous Mode		Batch Mode	
	Jan-Mar 2000	Apr-Jun 2000	Jan-Mar 2000	Apr-Jun 2000

1. FISSION AND ACTIVATION PRODUCTS - Ci

Mn-54	N/A	N/A	1.47E-04	6.81E-05
Fe-55	N/A	N/A	1.38E-03	1.21E-04
Co-58	N/A	N/A	4.13E-06	NDA
Co-60	N/A	N/A	1.09E-04	4.07E-04
Zn-65	N/A	N/A	9.33E-06	7.21E-06
Sr-90	N/A	N/A	1.40E-06	4.84E-06
I-133	N/A	N/A	NDA	3.02E-07
Cs-137	N/A	N/A	2.53E-04	1.89E-04
Total for period	N/A	N/A	1.90E-03	7.97E-04

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 2.3-B:

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

Table 2.3-B (continued)
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Liquid Effluents
July-December 2000

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 2000	Oct-Dec 2000	Jul-Sep 2000	Oct-Dec 2000

1. FISSION AND ACTIVATION PRODUCTS - Ci

Na-24	N/A	N/A	1.28E-07	NDA
Mn-54	N/A	N/A	1.32E-02	4.38E-05
Fe-55	N/A	N/A	1.88E-01	4.74E-05
Co-58	N/A	N/A	1.49E-05	NDA
Co-60	N/A	N/A	7.42E-03	4.17E-04
Zn-65	N/A	N/A	4.75E-04	NDA
Sr-89	N/A	N/A	NDA	1.19E-05
Sr-90	N/A	N/A	6.99E-05	2.89E-05
Cs-137	N/A	N/A	6.05E-04	1.32E-03
Ce-141	N/A	N/A	2.46E-05	NDA
Total for period	N/A	N/A	2.10E-01	1.87E-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 2.3-B:

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

3.0 METEOROLOGICAL DATA

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

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

- Stability Class: Class E, 36%
- Wind Direction (from): South-southwest, 13%
- 33-ft Wind Speed: 4-7 mph, 53%
- 220-ft Wind Speed: 13-18 mph, 32%

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 lightening strikes, loss of power, malfunction of the sensors, and/or malfunction of the digital dataloggers. Data recovery for the period was about 92% for the 33-ft level, and 92% for the 220-ft level of the tower. These data recovery values exceed the NRC's recommended annual recovery goal of 90%.

4.0 MAXIMUM INDIVIDUAL DOSES

Doses to the maximum exposed individual resulting from radionuclides in effluents released offsite were calculated using methods presented in the PNPS Offsite Dose Calculation Manual (ODCM, Reference 3), NRC Regulatory Guide 1.109 (Reference 4), NRC Regulatory Guide 1.111 (Reference 5), and the Pilgrim Station Unit 1 Appendix I Evaluation (Reference 6). Maximum individual doses are calculated separately for: (1) noble gases in gaseous effluents, (2) particulates, iodines, and tritium in gaseous effluents; and, (3) liquid effluents. Maximum consumption and use factors for various pathways from Table E-5 of the PNPS ODCM are used for calculating the doses to the maximum exposed individual.

Information related to liquid and gaseous effluent releases are summarized Section 2 of this report. These effluent release data were used as input to computer programs to calculate the resulting doses. The Duke Engineering and Services "YODA"-series of computer programs (Reference 7) was used to compile the dose contributions to the various organs in each age class from major exposure pathways.

4.1 Doses From Noble Gas Releases

Gaseous effluent release data presented in Tables 2.2-A, 2.2-B, and 2.2-C from this effluent release report were used as input to the Duke Engineering "YODA" computer programs to calculate radiation doses. These data include gaseous releases from the PNPS main stack, reactor building vent, and turbine building roof exhausters. Meteorological data obtained from the PNPS 220-foot meteorological tower during 2000 were also used as input to the Duke Engineering's "AEOLUS" computer program (Reference 8). This program calculated the atmospheric dispersion and deposition factors used in the "YODA"-series of computer programs to calculate maximum individual doses. These various dispersion (χ/Q) and deposition (D/Q) factors are presented in Appendix B.

The maximum individual doses resulting from radioactive noble gases released in gaseous effluents are presented in Table 4.1 according to specific receptor locations. This table includes all noble gas doses for the individual calendar quarters and total calendar year.

It should be noted that doses calculated for the entire year may not equal the sum of the doses for individual quarters. Doses from gaseous effluents are largely dependent on the meteorological conditions during the release period, as prescribed by the NRC in regulatory guides 1.109 and 1.111. Changes in meteorological conditions throughout the year can affect the amount of dispersion of gaseous effluents and the resulting dose. For example, a release of gaseous effluent during a period when there is little mixing in the air will yield a higher dose than if the same amount of radioactivity is released during a period when atmospheric mixing is high. Quarterly dose values presented in the following tables were calculated using meteorological conditions observed during the applicable quarterly period. In the case of the annual dose values presented, the radionuclide activity from the four quarters were summed for the entire year and doses were calculated using annual-average meteorological conditions.

Noble gases released in gaseous effluents from PNPS during 2000 resulted in a maximum total body dose of 0.13 mrem. The maximum skin dose was 0.98 mrem. Both of these doses occurred to a hypothetical individual, located at the shoreline 0.13 kilometers ENE of the PNPS Reactor Building in the case of total body dose, or 0.08 km N of the reactor building in the case of skin dose. These areas are under control of Entergy Nuclear. Doses to more "realistic" individuals at offsite locations would be lower than doses for these hypothetical site boundary individuals.

Table 4.1

Maximum Doses From Noble Gas Releases During 2000^(a)

Release Period	Gamma Air Dose (location)	Beta Air Dose (location)	Total Body Dose (location)	Skin Dose (location)
Jan-Mar	2.63E-02 mrad (0.15 km E)	5.38E-02 mrad (0.10 km NNE)	1.76E-02 mrem (0.15 km E)	5.96E-02 mrem (0.10 km NNE)
Apr-Jun	4.94E-02 mrad (0.10 km NNE)	8.54E-02 mrad (0.10 km NNE)	3.32E-02 mrem (0.10 km NNE)	1.03E-01 mrem (0.10 km NNE)
Jul-Sep	4.38E-02 mrad (0.10 km NNE)	2.09E-01 mrad (0.11 km NE)	2.95E-02 mrem (0.10 km NNE)	2.19E-01 mrem (0.11 km NE)
Oct-Dec	1.35E-01 mrad (0.13 km ENE)	6.67E-01 mrad (0.08 km N)	9.03E-02 mrem (0.13 km ENE)	6.47E-01 mrem (0.08 km N)
Jan-Dec	1.95E-01 mrad (0.13 km ENE)	9.87E-01 mrad (0.08 km N)	1.30E-01 mrem (0.13 km ENE)	9.78E-01 mrem (0.08 km N)

^(a) All directions and distances are with respect to the reactor vent.

4.2 Doses From Gaseous Effluent Releases

Gaseous effluent release data presented in Tables 2.2-A, 2.2-B, and 2.2-C from this effluent release report were used as input to the Duke Engineering "YODA" computer programs to calculate radiation doses. These data include gaseous releases from the PNPS main stack, reactor building vent, and turbine building roof exhausters. Meteorological data obtained from the PNPS 220-foot meteorological tower during 2000 were also used as input to the Duke Engineering's "AEOLUS" computer program (Reference 8). This program calculated the atmospheric dispersion and deposition factors used in the "YODA"-series of computer programs to calculate maximum individual doses. These various dispersion (χ/Q) and deposition (D/Q) factors are presented in Appendix B.

The maximum individual doses resulting from radioactive particulates, iodines, and tritium released in gaseous effluents are presented in Tables 4.2-A through 4.2-E. These tables cover the individual calendar quarters and the total calendar year, respectively. Doses resulting from releases of noble gases are addressed independently in the PNPS ODCM. Therefore, none of these tables for maximum individual doses include any dose contribution from noble gases. The presentation and analysis of doses resulting from noble gases are addressed in Section 4.1 of this report.

Tables 4.2-A through 4.2-E summarize the maximum total body and organ doses for the adult, teen, child, and infant age classes resulting from the major gaseous exposure pathways. These tables present the dose data according to specific receptor location and the exposure pathways assumed to occur at that location. For example, the second column of the tables presents the information for the hypothetical maximum-exposed at the most restrictive site boundary location, where only inhalation and ground deposition exposure pathways are assumed to occur. Since this is a shoreline location controlled by Entergy, the other pathways of garden vegetable production, milk production, and meat production are assumed not to occur. Doses for other offsite locations not under Entergy control, where other exposure pathways can and do occur, are presented in subsequent columns of the tables, and represent the potential maximum doses to individuals at these locations.

It should be noted that doses calculated for the entire year may not equal the sum of the doses for individual quarters. As was the case with noble gas doses described in Section 4.1, quarterly doses were calculated using meteorological conditions observed during the applicable quarterly period. Annual dose values are based on the sum of the quarterly noble gas releases, along with the annual-average meteorological conditions. A more detailed discussion of the reasons for the differences in annual doses from the summed quarterly doses can be found in Section 4.1.

Radioactivity released in gaseous effluents from PNPS during 2000 resulted in a maximum total body dose (teen age class) of 0.63 mrem. The maximum organ dose (teen age class, thyroid) was 0.79 mrem. Both of these doses occurred to hypothetical individuals at the shoreline 0.1 kilometers NNE of the PNPS Reactor Building, an area under Entergy control. For the more "realistic" individuals at offsite locations, the maximum total body dose was 0.03 mrem (child age class at a location 0.9 kilometers SE from the Reactor Building), while the maximum organ dose was 0.037 mrem (child thyroid at a location 0.9 kilometers SE from the Reactor Building, yielding vegetables).

Table 4.2-A

Maximum Individual Organ Dose at Receptor Location -- mrem
From Gaseous Release Period: January-March 2000

Receptor:	Bound	Cow/Goat	Garden	Cow/Meat	Resident	Meat
Direction:	NNE	WSW	SE	W	ESE	S
Distance ¹ :	0.10km	3.97km	0.87km	5.77km	0.80km	3.80km
Pathway ² :	DI	DIVCG ³	DIV ³	DIVCM ³	DI	DIVM ³
Age Class: Adult						
Bone	1.46E-02	2.00E-05	3.93E-04	7.09E-06	5.85E-04	1.35E-05
GI-LLI	7.48E-02	1.32E-04	1.13E-03	3.82E-05	1.70E-03	9.45E-05
Kidney	7.47E-02	1.34E-04	1.13E-03	3.84E-05	1.70E-03	9.39E-05
Liver	7.47E-02	1.38E-04	1.12E-03	3.89E-05	1.70E-03	9.40E-05
Lung	7.61E-02	1.32E-04	1.14E-03	3.82E-05	1.73E-03	9.56E-05
Thyroid	9.74E-02	4.41E-04	1.39E-03	1.03E-04	2.10E-03	1.25E-04
Total Body	7.46E-02	1.35E-04	1.12E-03	3.85E-05	1.70E-03	9.38E-05
Age Class: Teen						
Bone	1.47E-02	2.75E-05	3.94E-04	8.18E-06	5.87E-04	1.35E-05
GI-LLI	7.52E-02	1.58E-04	1.13E-03	3.99E-05	1.71E-03	8.58E-05
Kidney	7.52E-02	1.64E-04	1.13E-03	4.06E-05	1.71E-03	8.55E-05
Liver	7.51E-02	1.70E-04	1.13E-03	4.14E-05	1.71E-03	8.55E-05
Lung	7.74E-02	1.60E-04	1.16E-03	4.03E-05	1.75E-03	8.83E-05
Thyroid	1.05E-01	6.46E-04	1.47E-03	1.41E-04	2.23E-03	1.22E-04
Total Body	7.50E-02	1.62E-04	1.13E-03	4.02E-05	1.71E-03	8.53E-05
Age Class: Child						
Bone	1.49E-02	5.12E-05	3.95E-04	1.18E-05	5.89E-04	1.40E-05
GI-LLI	6.80E-02	2.20E-04	1.04E-03	4.82E-05	1.58E-03	8.13E-05
Kidney	6.82E-02	2.30E-04	1.05E-03	4.98E-05	1.58E-03	8.13E-05
Liver	6.81E-02	2.41E-04	1.04E-03	5.13E-05	1.58E-03	8.14E-05
Lung	7.00E-02	2.22E-04	1.07E-03	4.87E-05	1.61E-03	8.37E-05
Thyroid	1.05E-01	1.18E-03	1.47E-03	2.44E-04	2.23E-03	1.28E-04
Total Body	6.80E-02	2.24E-04	1.04E-03	4.88E-05	1.58E-03	8.11E-05
Age Class: Infant						
Bone	1.47E-02	8.09E-05	3.94E-04	1.60E-05	5.87E-04	1.29E-05
GI-LLI	4.52E-02	3.00E-04	7.65E-04	5.22E-05	1.15E-03	4.28E-05
Kidney	4.53E-02	3.17E-04	7.67E-04	5.50E-05	1.16E-03	4.30E-05
Liver	4.53E-02	3.44E-04	7.67E-04	5.85E-05	1.16E-03	4.30E-05
Lung	4.69E-02	3.04E-04	7.85E-04	5.29E-05	1.18E-03	4.51E-05
Thyroid	7.94E-02	2.61E-03	1.16E-03	5.12E-04	1.75E-03	7.89E-04
Total Body	4.52E-02	3.05E-04	7.65E-04	5.31E-05	1.15E-03	4.28E-05

¹ Distances are measured with respect to the reactor building vent.

² Pathway designations are as follows:

D = Deposition (Ground Plane)

I = Inhalation

V = Vegetable Garden

C = Cow Milk

G = Goat Milk

M = Meat

³ Doses are conservative since it is unlikely for vegetables to be grown outside or for animals to be fed on pasture during winter months.

Table 4.2-B

Maximum Individual Organ Dose at Receptor Location -- mrem
From Gaseous Release Period: April-June 2000

Receptor:	Bound	Cow/Goat	Garden	Cow/Meat	Resident	Meat
Direction:	NNE	WSW	SE	W	NW	S
Distance ¹ :	0.10km	3.97km	0.87km	5.77km	0.74km	3.80km
Pathway ² :	DI	DIVCG	DIV	DIVCM	DI	DIVM
Age Class: Adult						
Bone	1.05E-02	1.02E-04	2.12E-04	3.90E-05	8.51E-05	4.44E-05
GI-LLI	1.48E-01	1.06E-03	2.97E-03	4.79E-04	1.37E-03	4.95E-04
Kidney	1.48E-01	1.07E-03	2.94E-03	4.76E-04	1.36E-03	4.85E-04
Liver	1.48E-01	1.08E-03	2.95E-03	4.78E-04	1.36E-03	4.87E-04
Lung	1.50E-01	1.05E-03	2.95E-03	4.72E-04	1.38E-03	4.86E-04
Thyroid	1.89E-01	4.01E-03	3.85E-03	1.35E-03	1.73E-03	7.61E-04
Total Body	1.48E-01	1.07E-03	2.95E-03	4.75E-04	1.36E-03	4.86E-04
Age Class: Teen						
Bone	1.06E-02	1.62E-04	2.92E-04	5.67E-05	8.66E-05	6.01E-05
GI-LLI	1.49E-01	1.26E-03	3.27E-03	5.27E-04	1.37E-03	5.21E-04
Kidney	1.49E-01	1.28E-03	3.25E-03	5.28E-04	1.37E-03	5.14E-04
Liver	1.49E-01	1.30E-03	3.27E-03	5.31E-04	1.37E-03	5.16E-04
Lung	1.52E-01	1.25E-03	3.26E-03	5.21E-04	1.41E-03	5.16E-04
Thyroid	2.03E-01	5.78E-03	4.11E-03	1.80E-03	1.85E-03	7.57E-04
Total Body	1.48E-01	1.27E-03	3.25E-03	5.24E-04	1.37E-03	5.14E-04
Age Class: Child						
Bone	1.08E-02	3.70E-04	6.13E-04	1.25E-04	8.84E-05	1.27E-04
GI-LLI	1.33E-01	1.83E-03	4.47E-03	7.36E-04	1.22E-03	7.04E-04
Kidney	1.33E-01	1.89E-03	4.47E-03	7.47E-04	1.23E-03	7.01E-04
Liver	1.33E-01	1.93E-03	4.50E-03	7.52E-04	1.22E-03	7.05E-04
Lung	1.36E-01	1.83E-03	4.47E-03	7.33E-04	1.25E-03	7.01E-04
Thyroid	2.01E-01	1.08E-02	5.71E-03	3.20E-03	1.82E-03	1.06E-03
Total Body	1.32E-01	1.85E-03	4.47E-03	7.38E-04	1.22E-03	7.01E-04
Age Class: Infant						
Bone	1.06E-02	4.00E-04	5.75E-05	7.58E-05	8.65E-05	9.90E-06
GI-LLI	8.04E-02	1.47E-03	4.66E-04	3.19E-04	7.37E-04	7.08E-05
Kidney	8.07E-02	1.58E-03	4.67E-04	3.42E-04	7.40E-04	7.10E-05
Liver	8.07E-02	1.67E-03	4.67E-04	3.53E-04	7.39E-04	7.10E-05
Lung	8.35E-02	1.48E-03	4.83E-04	3.21E-04	7.65E-04	7.47E-05
Thyroid	1.43E-01	2.24E-02	8.11E-04	5.80E-03	1.29E-03	1.33E-04
Total Body	8.04E-02	1.51E-03	4.66E-04	3.27E-04	7.37E-04	7.08E-05

¹ Distances are measured with respect to the reactor building vent.

² Pathway designations are as follows:

D = Deposition (Ground Plane)

C = Cow Milk

I = Inhalation

G = Goat Milk

V = Vegetable Garden

M = Meat

Table 4.2-C

Maximum Individual Organ Dose at Receptor Location -- mrem
From Gaseous Release Period: July-September 2000

Receptor:	Bound	Cow/Goat	Garden	Cow/Meat	Resident	Meat
Direction:	NE	WSW	SE	W	WNW	S
Distance ¹ :	0.11km	3.97km	0.87km	5.77km	0.86km	3.80km
Pathway ² :	DI	DIVCG	DIV	DIVCM	DI	DIVM
Age Class: Adult						
Bone	9.09E-03	7.05E-05	2.84E-04	2.76E-05	1.24E-04	4.60E-05
GI-LLI	2.31E-01	1.21E-03	6.17E-03	4.76E-04	1.81E-03	6.45E-04
Kidney	2.31E-01	1.21E-03	6.14E-03	4.75E-04	1.81E-03	6.36E-04
Liver	2.31E-01	1.22E-03	6.16E-03	4.78E-04	1.81E-03	6.39E-04
Lung	2.34E-01	1.20E-03	6.14E-03	4.72E-04	1.83E-03	6.36E-04
Thyroid	2.80E-01	3.47E-03	7.18E-03	1.13E-03	2.16E-03	9.81E-04
Total Body	2.31E-01	1.21E-03	6.15E-03	4.75E-04	1.81E-03	6.38E-04
Age Class: Teen						
Bone	9.28E-03	1.12E-04	3.92E-04	4.02E-05	1.26E-04	6.27E-05
GI-LLI	2.33E-01	1.44E-03	6.93E-03	5.31E-04	1.82E-03	6.96E-04
Kidney	2.33E-01	1.46E-03	6.91E-03	5.34E-04	1.82E-03	6.89E-04
Liver	2.33E-01	1.48E-03	6.94E-03	5.37E-04	1.82E-03	6.93E-04
Lung	2.37E-01	1.43E-03	6.92E-03	5.28E-04	1.86E-03	6.90E-04
Thyroid	2.96E-01	4.90E-03	7.91E-03	1.48E-03	2.28E-03	9.91E-04
Total Body	2.32E-01	1.44E-03	6.91E-03	5.30E-04	1.82E-03	6.89E-04
Age Class: Child						
Bone	9.52E-03	2.53E-04	8.10E-04	8.72E-05	1.27E-04	1.31E-04
GI-LLI	2.07E-01	2.11E-03	9.74E-03	7.57E-04	1.62E-03	9.66E-04
Kidney	2.07E-01	2.16E-03	9.74E-03	7.66E-04	1.63E-03	9.65E-04
Liver	2.07E-01	2.20E-03	9.81E-03	7.73E-04	1.63E-03	9.72E-04
Lung	2.11E-01	2.11E-03	9.74E-03	7.55E-04	1.65E-03	9.63E-04
Thyroid	2.86E-01	8.94E-03	1.12E-02	2.59E-03	2.20E-03	1.41E-03
Total Body	2.07E-01	2.13E-03	9.74E-03	7.59E-04	1.62E-03	9.64E-04
Age Class: Infant						
Bone	9.26E-03	2.65E-04	9.15E-05	5.14E-05	1.26E-04	1.23E-05
GI-LLI	1.22E-01	1.51E-03	8.10E-04	2.79E-04	9.85E-04	8.03E-05
Kidney	1.23E-01	1.60E-03	8.12E-04	2.97E-04	9.87E-04	8.05E-05
Liver	1.23E-01	1.68E-03	8.12E-04	3.07E-04	9.87E-04	8.05E-05
Lung	1.26E-01	1.52E-03	8.32E-04	2.81E-04	1.01E-03	8.35E-05
Thyroid	1.96E-01	1.75E-02	1.25E-03	4.37E-03	1.51E-03	1.45E-04
Total Body	1.22E-01	1.54E-03	8.10E-04	2.85E-04	9.85E-04	8.03E-05

¹ Distances are measured with respect to the reactor building vent.

² Pathway designations are as follows:

D = Deposition (Ground Plane)

C = Cow Milk

I = Inhalation

G = Goat Milk

V = Vegetable Garden

M = Meat

Table 4.2-D

Maximum Individual Organ Dose at Receptor Location -- mrem
From Gaseous Release Period: October-December 2000

Receptor:	Bound	Cow/Goat	Garden	Cow/Meat	Resident	Meat
Direction:	NE	WSW	SE	W	ESE	S
Distance ¹ :	0.11km	3.97km	0.87km	5.77km	0.80km	3.80km
Pathway ² :	DI	DIVCG ³	DIV ³	DIVCM ³	DI	DIVM ³
Age Class: Adult						
Bone	9.48E-03	2.98E-05	2.92E-04	1.38E-05	3.93E-04	6.62E-05
GI-LLI	2.16E-01	3.13E-04	3.11E-03	1.52E-04	3.71E-03	3.76E-04
Kidney	2.15E-01	3.15E-04	3.11E-03	1.52E-04	3.70E-03	3.73E-04
Liver	2.15E-01	3.20E-04	3.11E-03	1.53E-04	3.70E-03	3.74E-04
Lung	2.18E-01	3.13E-04	3.14E-03	1.53E-04	3.75E-03	3.77E-04
Thyroid	2.31E-01	6.12E-04	3.31E-03	2.39E-04	3.95E-03	4.21E-04
Total Body	2.15E-01	3.17E-04	3.11E-03	1.53E-04	3.70E-03	3.73E-04
Age Class: Teen						
Bone	9.70E-03	3.93E-05	2.95E-04	1.58E-05	3.96E-04	6.61E-05
GI-LLI	2.17E-01	3.78E-04	3.13E-03	1.60E-04	3.73E-03	3.43E-04
Kidney	2.17E-01	3.83E-04	3.12E-03	1.61E-04	3.73E-03	3.41E-04
Liver	2.17E-01	3.91E-04	3.13E-03	1.62E-04	3.73E-03	3.41E-04
Lung	2.21E-01	3.80E-04	3.18E-03	1.61E-04	3.80E-03	3.48E-04
Thyroid	2.38E-01	8.51E-04	3.40E-03	2.94E-04	4.05E-03	3.94E-04
Total Body	2.17E-01	3.82E-04	3.12E-03	1.60E-04	3.72E-03	3.41E-04
Age Class: Child						
Bone	9.97E-03	6.96E-05	2.99E-04	2.25E-05	4.00E-04	6.79E-05
GI-LLI	1.93E-01	5.28E-04	2.80E-03	1.96E-04	3.34E-03	3.26E-04
Kidney	1.93E-01	5.39E-04	2.80E-03	1.99E-04	3.34E-03	3.25E-04
Liver	1.93E-01	5.54E-04	2.80E-03	2.01E-04	3.34E-03	3.26E-04
Lung	1.97E-01	5.32E-04	2.85E-03	1.98E-04	3.40E-03	3.31E-04
Thyroid	2.19E-01	1.46E-03	3.13E-03	4.58E-04	3.74E-03	3.93E-04
Total Body	1.93E-01	5.33E-04	2.79E-03	1.97E-04	3.34E-03	3.25E-04
Age Class: Infant						
Bone	9.64E-03	1.09E-04	2.94E-04	3.03E-05	3.95E-04	6.43E-05
GI-LLI	1.15E-01	7.24E-04	1.73E-03	2.14E-04	2.08E-03	1.79E-04
Kidney	1.15E-01	7.43E-04	1.73E-03	2.18E-04	2.08E-03	1.79E-04
Liver	1.15E-01	7.76E-04	1.73E-03	2.24E-04	2.08E-03	1.79E-04
Lung	1.18E-01	7.29E-04	1.78E-03	2.16E-04	2.14E-03	1.85E-04
Thyroid	1.39E-01	2.97E-03	2.04E-03	8.26E-04	2.45E-03	2.26E-04
Total Body	1.15E-01	7.30E-04	1.73E-03	2.15E-04	2.08E-03	1.79E-04

¹ Distances are measured with respect to the reactor building vent.

² Pathway designations are as follows:

D = Deposition (Ground Plane)

I = Inhalation

V = Vegetable Garden

C = Cow Milk

G = Goat Milk

M = Meat

³ Doses are conservative since it is unlikely for vegetables to be grown outside or for animals to be fed on pasture during winter months.

Table 4.2-E

Maximum Individual Organ Dose at Receptor Location -- mrem
From Gaseous Release Period: January-December 2000

Receptor:	Bound	Cow/Goat	Garden	Cow/Meat	Resident	Meat
Direction:	NNE	WSW	SE	W	ESE	S
Distance ¹ :	0.10km	3.97km	0.87km	5.77km	0.80km	3.80km
Pathway ² :	DI	DIVCG ³	DIV ³	DIVCM ³	DI	DIVM ³
Age Class: Adult						
Bone	4.68E-02	2.86E-04	2.37E-03	1.22E-04	9.90E-04	2.67E-04
GI-LLI	6.28E-01	2.98E-03	2.02E-02	1.29E-03	7.95E-03	2.21E-03
Kidney	6.27E-01	2.99E-03	1.99E-02	1.28E-03	7.94E-03	2.17E-03
Liver	6.27E-01	3.03E-03	2.01E-02	1.29E-03	7.94E-03	2.18E-03
Lung	6.35E-01	2.96E-03	1.99E-02	1.27E-03	8.04E-03	2.17E-03
Thyroid	7.45E-01	7.55E-03	2.54E-02	2.65E-03	9.28E-03	3.19E-03
Total Body	6.26E-01	3.00E-03	2.00E-02	1.28E-03	7.93E-03	2.18E-03
Age Class: Teen						
Bone	4.75E-02	4.31E-04	3.22E-03	1.70E-04	9.97E-04	3.47E-04
GI-LLI	6.32E-01	3.54E-03	2.22E-02	1.42E-03	8.00E-03	2.33E-03
Kidney	6.31E-01	3.57E-03	2.20E-02	1.41E-03	7.99E-03	2.30E-03
Liver	6.31E-01	3.65E-03	2.23E-02	1.43E-03	7.99E-03	2.31E-03
Lung	6.45E-01	3.52E-03	2.20E-02	1.40E-03	8.15E-03	2.30E-03
Thyroid	7.85E-01	1.04E-02	2.70E-02	3.34E-03	9.74E-03	3.20E-03
Total Body	6.30E-01	3.55E-03	2.21E-02	1.41E-03	7.98E-03	2.30E-03
Age Class: Child						
Bone	4.83E-02	9.41E-04	6.64E-03	3.52E-04	1.01E-03	6.81E-04
GI-LLI	5.63E-01	5.14E-03	3.02E-02	1.97E-03	7.17E-03	3.13E-03
Kidney	5.63E-01	5.25E-03	3.01E-02	1.99E-03	7.18E-03	3.11E-03
Liver	5.63E-01	5.38E-03	3.06E-02	2.02E-03	7.18E-03	3.15E-03
Lung	5.75E-01	5.14E-03	3.01E-02	1.97E-03	7.32E-03	3.11E-03
Thyroid	7.56E-01	1.86E-02	3.74E-02	5.67E-03	9.35E-03	4.44E-03
Total Body	5.62E-01	5.18E-03	3.02E-02	1.98E-03	7.17E-03	3.12E-03
Age Class: Infant						
Bone	4.74E-02	8.71E-04	7.27E-04	1.75E-04	9.96E-04	9.42E-05
GI-LLI	3.43E-01	4.13E-03	3.45E-03	8.63E-04	4.54E-03	3.60E-04
Kidney	3.43E-01	4.33E-03	3.45E-03	9.03E-04	4.54E-03	3.61E-04
Liver	3.43E-01	4.60E-03	3.45E-03	9.38E-04	4.54E-03	3.61E-04
Lung	3.54E-01	4.17E-03	3.55E-03	8.71E-04	4.67E-03	3.75E-04
Thyroid	5.21E-01	3.53E-02	4.98E-03	8.83E-03	6.55E-03	5.69E-04
Total Body	3.43E-01	4.20E-03	3.45E-03	8.76E-04	4.54E-03	3.60E-04

¹ Distances are measured with respect to the reactor building vent.

² Pathway designations are as follows:

D = Deposition (Ground Plane)

I = Inhalation

V = Vegetable Garden

C = Cow Milk

G = Goat Milk

M = Meat

³ Doses are conservative since it is unlikely for vegetables to be grown outside or for animals to be fed on pasture during winter months.

4.3 Doses From Liquid Effluent Releases

Liquid effluent release data presented in Tables 2.3-A and 2.3-B were used as input to the Duke Engineering "YODA" computer programs to calculate radiation doses. The maximum individual doses resulting from radionuclides released in liquid effluents are presented in Tables 4.3-A through 4.3-E. These tables cover the individual calendar quarters and the total calendar year, respectively.

Tables 4.3-A through 4.3-E summarize the maximum total body and organ doses for the adult, teen, and child age classes resulting from the major liquid exposure pathways. NRC Regulatory Guide 1.109 does not recognize the infant age class as being exposed to the liquid effluent pathways. Therefore, doses for this age class are not included in any of the tables.

It should be noted that doses calculated for the entire year may not equal the sum of the doses for the individual quarters. Doses from liquid effluents are based on the concentration (activity divided by volume) of radionuclides released in the effluent, as prescribed by the NRC in Regulatory Guide 1.109. If a larger proportion of activity is released with a relatively smaller volume of dilution water during a given quarter, the resulting concentration for that quarter will be higher than concentrations from other quarters. This will result in a proportionally higher dose for that quarter. However, when that quarter's activity values are included in the annual sum, and divided by the total annual dilution flow, the resulting dose contribution will be smaller. In such a situation, the annual dose will actually be less than the sum of the individual quarterly doses.

Radioactivity released in liquid effluents from PNPS during 2000 resulted in a maximum total body dose (child age class) of 0.0103 mrem. The maximum organ dose (child age class, bone) was 0.0578 mrem.

Table 4.3-A

Maximum Individual Organ Doses By Exposure Pathway -- mrem
From Liquid Release Period: January-March 2000

Exposure Pathway	Saltwater Fish	Saltwater Shellfish	Shoreline Deposits	Swimming/ Boating*	Total
Age Class: Adult					
Bone	8.37E-05	2.30E-04	1.64E-06	3.76E-09	3.15E-04
GI-LLI	4.46E-05	1.17E-04	1.64E-06	3.76E-09	1.63E-04
Kidney	6.39E-06	1.57E-05	1.64E-06	3.76E-09	2.37E-05
Liver	6.74E-05	1.78E-04	1.64E-06	3.76E-09	2.47E-04
Lung	3.25E-05	8.63E-05	1.64E-06	3.76E-09	1.20E-04
Thyroid	1.79E-06	7.95E-07	1.64E-06	3.76E-09	4.23E-06
Total Body	2.09E-05	4.90E-05	1.64E-06	3.76E-09	7.15E-05
Age Class: Teen					
Bone	8.76E-05	2.10E-04	9.16E-06	3.76E-09	3.07E-04
GI-LLI	3.44E-05	7.97E-05	9.16E-06	3.76E-09	1.23E-04
Kidney	6.01E-06	1.29E-05	9.16E-06	3.76E-09	2.81E-05
Liver	7.12E-05	1.65E-04	9.16E-06	3.76E-09	2.45E-04
Lung	3.89E-05	9.19E-05	9.16E-06	3.76E-09	1.40E-04
Thyroid	1.38E-06	5.35E-07	9.16E-06	3.76E-09	1.11E-05
Total Body	1.93E-05	4.47E-05	9.16E-06	3.76E-09	7.32E-05
Age Class: Child					
Bone	1.14E-04	3.17E-04	1.91E-06	2.10E-09	4.33E-04
GI-LLI	1.42E-05	3.74E-05	1.91E-06	2.10E-09	5.35E-05
Kidney	4.95E-06	1.17E-05	1.91E-06	2.10E-09	1.86E-05
Liver	6.82E-05	1.84E-04	1.91E-06	2.10E-09	2.54E-04
Lung	3.39E-05	9.32E-05	1.91E-06	2.10E-09	1.29E-04
Thyroid	1.14E-06	5.12E-07	1.91E-06	2.10E-09	3.57E-06
Total Body	2.15E-05	6.37E-05	1.91E-06	2.10E-09	8.71E-05

* These doses are conservative since the same usage factor was applied for each quarter. In reality, it is unlikely that anyone would be swimming or boating during these months. However, the resulting dose is considerably lower than those from other pathways and does not contribute much to the total dose.

Table 4.3-B

Maximum Individual Organ Doses By Exposure Pathway -- mrem
From Liquid Release Period: April-June 2000

Exposure Pathway	Saltwater Fish	Saltwater Shellfish	Shoreline Deposits	Swimming/ Boating	Total
Age Class: Adult					
Bone	1.19E-05	2.77E-05	3.44E-06	8.23E-09	4.30E-05
GI-LLI	1.85E-05	6.68E-05	3.44E-06	8.23E-09	8.87E-05
Kidney	3.29E-06	1.14E-05	3.44E-06	8.23E-09	1.81E-05
Liver	1.36E-05	3.40E-05	3.44E-06	8.23E-09	5.10E-05
Lung	3.28E-06	7.66E-06	3.44E-06	8.23E-09	1.44E-05
Thyroid	3.24E-08	2.01E-08	3.44E-06	8.23E-09	3.50E-06
Total Body	7.13E-06	1.76E-05	3.44E-06	8.23E-09	2.82E-05
Age Class: Teen					
Bone	1.23E-05	2.44E-05	1.91E-05	8.23E-09	5.58E-05
GI-LLI	1.30E-05	4.10E-05	1.91E-05	8.23E-09	7.31E-05
Kidney	3.31E-06	9.51E-06	1.91E-05	8.23E-09	3.20E-05
Liver	1.41E-05	3.05E-05	1.91E-05	8.23E-09	6.37E-05
Lung	3.99E-06	8.18E-06	1.91E-05	8.23E-09	3.13E-05
Thyroid	2.57E-08	1.49E-08	1.91E-05	8.23E-09	1.92E-05
Total Body	5.59E-06	1.54E-05	1.91E-05	8.23E-09	4.01E-05
Age Class: Child					
Bone	1.57E-05	3.49E-05	4.01E-06	4.59E-09	5.46E-05
GI-LLI	4.60E-06	1.68E-05	4.01E-06	4.59E-09	2.54E-05
Kidney	2.73E-06	8.59E-06	4.01E-06	4.59E-09	1.53E-05
Liver	1.28E-05	3.09E-05	4.01E-06	4.59E-09	4.77E-05
Lung	3.44E-06	8.29E-06	4.01E-06	4.59E-09	1.57E-05
Thyroid	2.26E-08	1.73E-08	4.01E-06	4.59E-09	4.06E-06
Total Body	4.81E-06	1.92E-05	4.01E-06	4.59E-09	2.80E-05

Table 4.3-C

Maximum Individual Organ Doses By Exposure Pathway -- mrem
From Liquid Release Period: July-September 2000

Exposure Pathway	Saltwater Fish	Saltwater Shellfish	Shoreline Deposits	Swimming/ Boating	Total
Age Class: Adult					
Bone	1.06E-02	3.06E-02	5.89E-05	2.10E-07	4.13E-02
GI-LLI	5.16E-03	1.38E-02	5.89E-05	2.10E-07	1.90E-02
Kidney	1.45E-04	7.39E-04	5.89E-05	2.10E-07	9.43E-04
Liver	7.68E-03	2.21E-02	5.89E-05	2.10E-07	2.98E-02
Lung	4.09E-03	1.17E-02	5.89E-05	2.10E-07	1.58E-02
Thyroid	5.02E-06	2.22E-06	5.89E-05	2.10E-07	6.63E-05
Total Body	1.84E-03	5.49E-03	5.89E-05	2.10E-07	7.39E-03
Age Class: Teen					
Bone	1.11E-02	2.80E-02	3.29E-04	2.10E-07	3.94E-02
GI-LLI	4.05E-03	9.56E-03	3.29E-04	2.10E-07	1.39E-02
Kidney	1.40E-04	6.13E-04	3.29E-04	2.10E-07	1.08E-03
Liver	8.22E-03	2.07E-02	3.29E-04	2.10E-07	2.92E-02
Lung	5.00E-03	1.25E-02	3.29E-04	2.10E-07	1.78E-02
Thyroid	3.86E-06	1.50E-06	3.29E-04	2.10E-07	3.34E-04
Total Body	1.96E-03	5.13E-03	3.29E-04	2.10E-07	7.42E-03
Age Class: Child					
Bone	1.46E-02	4.25E-02	6.87E-05	1.17E-07	5.72E-02
GI-LLI	1.64E-03	4.55E-03	6.87E-05	1.17E-07	6.26E-03
Kidney	1.06E-04	5.50E-04	6.87E-05	1.17E-07	7.25E-04
Liver	8.00E-03	2.33E-02	6.87E-05	1.17E-07	3.14E-02
Lung	4.37E-03	1.27E-02	6.87E-05	1.17E-07	1.71E-02
Thyroid	3.19E-06	1.43E-06	6.87E-05	1.17E-07	7.34E-05
Total Body	2.52E-03	7.59E-03	6.87E-05	1.17E-07	1.02E-02

Table 4.3-D

Maximum Individual Organ Doses By Exposure Pathway -- mrem
From Liquid Release Period: October-December 2000

Exposure Pathway	Saltwater Fish	Saltwater Shellfish	Shoreline Deposits	Swimming/ Boating*	Total
Age Class: Adult					
Bone	3.43E-05	2.83E-05	7.20E-06	1.25E-08	6.98E-05
GI-LLI	1.56E-05	5.32E-05	7.20E-06	1.25E-08	7.60E-05
Kidney	1.36E-05	3.64E-06	7.20E-06	1.25E-08	2.45E-05
Liver	4.24E-05	1.86E-05	7.20E-06	1.25E-08	6.82E-05
Lung	5.48E-06	4.13E-06	7.20E-06	1.25E-08	1.68E-05
Thyroid	3.29E-08	1.46E-08	7.20E-06	1.25E-08	7.26E-06
Total Body	2.83E-05	1.70E-05	7.20E-06	1.25E-08	5.25E-05
Age Class: Teen					
Bone	3.60E-05	2.37E-05	4.01E-05	1.25E-08	9.98E-05
GI-LLI	1.10E-05	3.26E-05	4.01E-05	1.25E-08	8.37E-05
Kidney	1.41E-05	3.32E-06	4.01E-05	1.25E-08	5.76E-05
Liver	4.41E-05	1.70E-05	4.01E-05	1.25E-08	1.01E-04
Lung	6.67E-06	4.41E-06	4.01E-05	1.25E-08	5.12E-05
Thyroid	2.53E-08	9.79E-09	4.01E-05	1.25E-08	4.02E-05
Total Body	1.68E-05	1.20E-05	4.01E-05	1.25E-08	6.89E-05
Age Class: Child					
Bone	4.45E-05	3.09E-05	8.39E-06	6.99E-09	8.38E-05
GI-LLI	3.86E-06	1.33E-05	8.39E-06	6.99E-09	2.56E-05
Kidney	1.22E-05	3.33E-06	8.39E-06	6.99E-09	2.39E-05
Liver	4.00E-05	1.80E-05	8.39E-06	6.99E-09	6.64E-05
Lung	5.45E-06	4.36E-06	8.39E-06	6.99E-09	1.82E-05
Thyroid	2.09E-08	9.38E-09	8.39E-06	6.99E-09	8.43E-06
Total Body	8.24E-06	1.20E-05	8.39E-06	6.99E-09	2.86E-05

* These doses are conservative since the same usage factor was applied for each quarter. In reality, it is unlikely that anyone would be swimming or boating during these months. However, the resulting dose is considerably lower than those from other pathways and does not contribute much to the total dose.

Table 4.3-E

Maximum Individual Organ Doses By Exposure Pathway -- mrem
From Liquid Release Period: January-December 2000

Exposure Pathway	Saltwater Fish	Saltwater Shellfish	Shoreline Deposits	Swimming/ Boating*	Total
Age Class: Adult					
Bone	1.08E-02	3.09E-02	7.10E-05	2.34E-07	4.18E-02
GI-LLI	5.24E-03	1.40E-02	7.10E-05	2.34E-07	1.93E-02
Kidney	1.68E-04	7.69E-04	7.10E-05	2.34E-07	1.01E-03
Liver	7.80E-03	2.23E-02	7.10E-05	2.34E-07	3.02E-02
Lung	4.13E-03	1.18E-02	7.10E-05	2.34E-07	1.60E-02
Thyroid	6.89E-06	3.06E-06	7.10E-05	2.34E-07	8.12E-05
Total Body	1.89E-03	5.57E-03	7.10E-05	2.34E-07	7.53E-03
Age Class: Teen					
Bone	1.13E-02	2.83E-02	3.96E-04	2.34E-07	4.00E-02
GI-LLI	4.11E-03	9.71E-03	3.96E-04	2.34E-07	1.42E-02
Kidney	1.63E-04	6.38E-04	3.96E-04	2.34E-07	1.20E-03
Liver	8.35E-03	2.09E-02	3.96E-04	2.34E-07	2.96E-02
Lung	5.04E-03	1.26E-02	3.96E-04	2.34E-07	1.80E-02
Thyroid	5.30E-06	2.06E-06	3.96E-04	2.34E-07	4.04E-04
Total Body	2.00E-03	5.20E-03	3.96E-04	2.34E-07	7.60E-03
Age Class: Child					
Bone	1.48E-02	4.29E-02	8.29E-05	1.31E-07	5.78E-02
GI-LLI	1.66E-03	4.62E-03	8.29E-05	1.31E-07	6.36E-03
Kidney	1.26E-04	5.73E-04	8.29E-05	1.31E-07	7.82E-04
Liver	8.12E-03	2.35E-02	8.29E-05	1.31E-07	3.17E-02
Lung	4.41E-03	1.28E-02	8.29E-05	1.31E-07	1.73E-02
Thyroid	4.38E-06	1.98E-06	8.29E-05	1.31E-07	8.94E-05
Total Body	2.55E-03	7.69E-03	8.29E-05	1.31E-07	1.03E-02

* These doses are conservative since the same usage factor was applied for each quarter. In reality, it is unlikely that anyone would be swimming or boating during winter months. However, the resulting dose is considerably lower than those from other pathways and does not contribute much to the total dose.

5.0 POPULATION AND AVERAGE INDIVIDUAL DOSES

Neither the PNPS Technical Specifications nor the ODCM contain limits related to population doses. However, NRC Regulatory Guide 1.21 (Reference 1) recommends calculation of population and average individual doses to the total body as part of the overall assessment of radiological impact on man.

The population dose is the collective sum of doses received by the entire population residing within 50 miles of PNPS. For example, the average individual receives about 300 to 400 mrem (0.3 to 0.4 rem) per year from cosmic radiation and naturally-occurring radionuclides in the air, soil, water, and food. Assuming each person in the population of 4.18 million people living within 50 miles of PNPS received a dose of 350 mrem (0.35 rem) from such natural radiation exposure, the population total body dose would be estimated to be:

$$0.35 \text{ rem/person} * 4.18 \text{ million people} = 1.46 \text{ million person-rem}$$

Total body doses to the entire population within 50 miles of Pilgrim Station resulting from radionuclides in effluents released offsite were calculated using the population distribution based on 1980 census data.

These cumulative population doses were also calculated using methods presented in the PNPS ODCM, NRC Regulatory Guide 1.109, NRC Regulatory Guide 1.111, and the PNPS Appendix I Evaluation. Population doses were calculated separately for gaseous and liquid effluents, and are presented in Tables 5.1-A and 5.2-A, respectively. Unlike the ODCM effluent controls addressing doses to maximum exposed individuals resulting from the three types of releases addressed in Section 4 of this report, population doses for gaseous effluents combine the dose contributions from noble gases along with those from radioactive particulates, iodines, and tritium. Also, in the case of the population doses, average consumption and use factors for various pathways from Table E-4 of the PNPS ODCM were assumed, rather than the maximum use factors assumed for the maximum exposed individual.

Information related to liquid and gaseous effluent releases, as summarized in Section 2 of this report, were used as input to computer programs to calculate the resulting total body doses. The Duke Engineering "YODA"-series of computer programs was used to compile the dose contributions to the total body in each age class from major exposure pathways.

In addition to the population total body doses, doses to an average individual in the population were calculated. These average total body doses were estimated by dividing the total population dose (person-rem) by the total population of 4.18 million people within 50 miles of PNPS. The average individual doses, in mrem, are presented for gaseous and liquid effluents in Tables 5.1-B and 5.2-C, respectively.

5.1 Doses From Gaseous Effluent Releases

Population total body doses (person-rem) resulting from releases of radionuclides in gaseous effluents are presented in Table 5.1-A. These population doses represent the collective sum of doses received by the entire population living within 50 mile of PNPS. This table includes the doses for the four calendar quarters and entire year resulting from the various gaseous exposure pathways. The corresponding average individual total body doses (mrem) are presented in Table 5.1-B.

Radioactivity released in gaseous effluents from PNPS during 2000 resulted in a cumulative population total body dose of 0.58 person-rem. The corresponding average individual total body dose was 0.00014 mrem.

Again, it should be noted that the calculated doses for the entire year may be different from the sum of the individual four quarters. This difference is due to the methods and equations used to calculate dose from gaseous effluents, as prescribed by the NRC in Regulatory Guide 1.109. A more detailed discussion of the reasons for the differences can be found in Sections 4.1 and 4.2, in the discussion of maximum individual doses from gaseous effluent releases.

Table 5.1-A

Population Doses From Gaseous Effluent Releases During 2000

Exposure Pathway	Population Total Body Dose: person-rem				
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Dec
Noble Gas	5.40E-02	1.46E-01	1.91E-01	1.25E-01	4.93E-01
Ground Deposition	8.99E-04	5.69E-04	7.02E-04	2.43E-03	4.95E-03
Inhalation	6.67E-03	1.53E-02	2.31E-02	2.24E-02	6.72E-02
Vegetables	5.65E-04*	1.85E-03	2.17E-03	1.67E-03*	6.33E-03*
Milk	3.56E-04*	1.40E-03	1.53E-03	1.06E-03*	4.40E-03*
Meat	2.22E-05*	8.26E-05	8.99E-05	6.51E-05*	2.63E-04*
Total	6.25E-02	1.65E-01	2.19E-01	1.53E-01	5.76E-01

Table 5.1-B

Average Individual Doses From Gaseous Effluent Releases During 2000

Exposure Pathway	Average Individual Total Body Dose: mrem				
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Dec
Noble Gas	1.29E-05	3.49E-05	4.56E-05	2.99E-05	1.18E-04
Ground Deposition	2.15E-07	1.36E-07	1.68E-07	5.81E-07	1.18E-06
Inhalation	1.60E-06	3.66E-06	5.53E-06	5.36E-06	1.61E-05
Vegetables	1.35E-07*	4.43E-07	5.19E-07	3.99E-07*	1.51E-06*
Milk	8.51E-08*	3.35E-07	3.66E-07	2.54E-07*	1.05E-06*
Meat	5.30E-09*	1.98E-08	2.15E-08	1.56E-08*	6.30E-08*
Total	1.49E-05	3.95E-05	5.22E-05	3.65E-05	1.38E-04

*Dose estimates are conservative since vegetables are not grown outside during winter months and animals are generally not fed on pasture during winter months.

5.2 Doses from Liquid Effluent Releases

Population total body doses (person-rem) resulting from releases of radionuclides in liquid effluents are presented in Table 5.2-A. These population doses represent the collective sum of doses received by the entire population living within 50 mile of PNPS. This table includes the doses for the four calendar quarters and entire year resulting from the various liquid exposure pathways. The corresponding average individual total body doses (mrem) are presented in Table 5.2-B.

Radioactivity released in liquid effluents from PNPS during 2000 resulted in a cumulative population total body dose of 0.102 person-rem. The corresponding average individual total body dose was 0.000025 mrem.

Again, it should be noted that the calculated doses for the entire year may be different from the sum of the individual four quarters. This difference is due to the methods and equations used to calculate dose from liquid effluents, as prescribed by the NRC in Regulatory Guide 1.109. A more detailed discussion of the reasons for the differences can be found in Section 4.3, in the discussion of maximum individual doses from liquid effluent releases.

Table 5.2-A

Population Doses From Liquid Effluent Releases During 2000

Exposure Pathway	Population Total Body Dose: person-rem				
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Dec
Fish	3.77E-04	1.17E-04	3.60E-02	4.12E-04	3.69E-02
Shellfish	5.56E-04	1.91E-04	6.34E-02	1.65E-04	6.43E-02
Shoreline	1.65E-05*	3.67E-05	8.50E-04	5.97E-05*	9.61E-04*
Swimming	3.77E-08*	8.23E-08	2.10E-06	1.25E-07*	2.34E-06*
Total	9.50E-04	3.45E-04	1.00E-01	6.37E-04	1.02E-01

Table 5.2-B

Average Individual Doses From Liquid Effluent Releases During 2000

Exposure Pathway	Average Individual Total Body Dose: mrem				
	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Dec
Fish	9.01E-08	2.79E-08	8.62E-06	9.84E-08	8.83E-06
Shellfish	1.33E-07	4.56E-08	1.52E-05	3.93E-08	1.54E-05
Shoreline	3.95E-09*	8.77E-09	2.03E-07	1.43E-08*	2.30E-07*
Swimming	9.00E-12*	1.97E-11	5.02E-10	2.99E-11*	5.59E-10*
Total	2.27E-07	8.23E-08	2.40E-05	1.52E-07	2.45E-05

* Doses are conservative since swimming and beach activity during winter months is very limited.

6.0 OFFSITE AMBIENT RADIATION MEASUREMENTS

The PNPS ODCM does not contain control limits related specifically to offsite ambient radiation exposure. However, Regulatory Guide 1.21 (Reference 1) recommends calculation of ambient radiation exposure as part of the overall assessment of radiological impact on man.

Thermoluminescent dosimeters (TLDs) are located at 83 sites beyond the boundary of the PNPS restricted/protected area. A number of these TLDs are located within the site boundary, on Entergy property in close proximity to the station proper. The TLDs are collected on a quarterly basis and used to calculate the ambient radiation exposure in milliRoentgen (mR) over the exposure period. These TLDs are grouped into four zones of increasing distance from the station. Average exposure values for each of these zones were calculated for each calendar quarter and the total year. The average exposure values (mR) for the four zones are presented in Table 6.0.

In addition to responding to ambient radiation exposure, TLDs will also record radiation resulting from noble gases (plume and immersion exposure), particulate materials deposited on the ground, cosmic rays from outer space, and from naturally-occurring radioactivity in the soil and air. Typically, the exposure from cosmic rays and other natural radioactivity components is about 40 to 70 mR/year. As calculated in Sections 4.1 and 4.2 of this report, the ambient radiation component of doses from PNPS effluent emissions are below 1 mrem/yr and would not be discernible above the natural radiation exposure levels.

The major source of ambient radiation exposure from PNPS results from high energy gamma rays emitted from nitrogen-16 (N-16) contained in steam flowing through the turbine. Although the N-16 is enclosed in the process lines and turbine and is not released into the environment, the ambient radiation exposure and sky shine from this contained source accounts for the majority of the radiation dose, especially in close proximity to the station. Other sources of ambient radiation exposure include radiation emitted from contained radioactive materials and/or radwaste at the facility. Despite these sources of ambient radiation exposure at PNPS, increases in exposure from ambient radiation are typically not observable above background radiation levels at locations beyond Entergy controlled property.

The average exposure values presented in Table 6.0 appear to indicate an elevation in ambient exposures in Zone 1, those TLDs within 2 miles of PNPS. Most of this apparent elevation is due to increases in exposure levels measured at TLD locations on Entergy property in close proximity to the station proper. For example, the annual exposure at TLD location OA, located at the Overlook Area near the PNPS Health Club (I&S Building), was 584 mR for the entire year. This location is immediately adjacent to the station proper and overlooks the turbine building, therefore receiving the highest direct ambient and sky shine exposure. When the near-site TLDs (those located within 0.6 km of the Reactor Building) are removed from the calculation of averages, the mean annual exposure in Zone 1 falls from 94.4 ± 84.6 mR/yr to 62.8 ± 6.5 mR/yr. Such a corrected dose is not statistically different from the Zone 4 average of 61.0 ± 7.9 mR/yr.

Although the annual exposure at TLD location OA was 523 mR above the average Zone 4 exposure rate, this area is not continuously occupied by members of the general public. When adjusted for such occupancy, a hypothetical member of the public who was at this location for 40 hours per year would only receive an incremental dose of 2.4 mrem over natural background radiation levels. At the nearest residence 0.80 kilometers (0.5 miles) southeast of the PNPS Reactor Building, the annual exposure was calculated as being 60.0 ± 5.1 mR, which compares quite well to the Zone 4 annual average of 61.0 ± 7.9 mR.

It must be emphasized that the projected ambient exposures discussed on the previous page are calculated to occur to a maximum-exposed hypothetical individual. Even though conservative assumptions are made in the projection of these dose consequences, all of the projected doses are well below the NRC dose limit of 100 mrem/yr specified in 10CFR20.1301, as well as the EPA dose limit of 25 mrem/yr specified in 40CFR190. Both of these limits are to be applied to real members of the general public, so the fact that the dose to the hypothetical maximum-exposed individual is within the limits ensures that any dose received by a real member of the public would be smaller and well within any applicable limit.

In 1994, Pilgrim Station opened the old training facility (I&S Building) overlooking the plant as a health club for its employees. This site is immediately adjacent to the protected area boundary near monitoring location OA and receives appreciable amounts of direct ambient and sky shine exposure from the turbine building. Although most personnel using this facility are employees of Entergy, they are considered to be members of the public. Due to their extended presence in the facility (500 hr/yr, assuming utilization of the facility for 2 hr/day, 5 days a week, for 50 weeks/yr), these personnel represent the most conservative case in regards to ambient radiation exposure to a member of the public. Their annual incremental radiation dose above background during 1999 is estimated as being about 10 mrem, based on the average exposure measured by three TLDs in the building.

The exposures measured by these three TLDs located in the health club would also include any increase in ambient radiation resulting from noble gases and/or particulate activity deposited on the ground from gaseous releases. However, they would not indicate any internal dose received by these contractor personnel from inhalation of small amounts of PNPS-related radioactivity contained in the air. An environmental air sampler located immediately adjacent to the health club did not indicate any PNPS-related activity during 2000. Dose calculations performed in the same manner as those outlined in Section 4.2 yielded a projected total body dose to the maximum-exposed individual (500 hr/yr exposure) of about 0.002 mrem, resulting from inhalation.

Again, it must be emphasized that this exposure was received by personnel who are employees of Entergy, working in a facility on property under the ownership and control of Entergy. Since this exposure was received within the owner-controlled area, it is not used for comparison to the annual dose limit of 25 mrem/yr specified in 40CFR190. This regulation expressly applies to areas at or beyond the owner-controlled property, and is not applicable in this situation. As stated earlier, TLDs at and beyond the site boundary do not indicate elevated ambient radiation levels resulting from the operation of Pilgrim Station.

Although some of the TLDs in close proximity to PNPS indicate increases in exposure levels from ambient radiation, such increases are localized to areas under Entergy control. For members of the general public who are not employed or contracted with Entergy and are accessing Entergy controlled areas (e.g., Shorefront Recreation Area, Health Club, parking lots, etc.), such increases in dose from ambient radiation exposure are estimated as being less than 3 mrem/year.

Table 6.0

Average TLD Exposures By Distance Zone During 2000

Exposure Period	Average Exposure \pm Standard Deviation: mR/period			
	Zone 1* 0-3 km	Zone 2 3-8 km	Zone 3 8-15 km	Zone 4 >15 km
Jan-Mar	22.6 \pm 20.8	14.1 \pm 2.7	14.0 \pm 1.3	14.4 \pm 1.3
Apr-Jun	23.7 \pm 23.0	13.9 \pm 2.7	13.4 \pm 1.5	14.1 \pm 1.7
Jul-Sep	23.6 \pm 19.1	15.4 \pm 2.8	15.3 \pm 1.5	16.3 \pm 2.2
Oct-Dec	24.5 \pm 22.3	15.4 \pm 2.8	15.2 \pm 1.4	16.2 \pm 2.0
Jan-Dec	94.4 \pm 84.6**	58.8 \pm 11.2	57.9 \pm 6.4	61.0 \pm 7.9

* Zone 1 extends from the PNPS restricted/protected area boundary outward to 3 kilometers (2 miles), and includes several TLDs located within the site boundary.

** When corrected for TLDs located within the site boundary, the Zone 1 annual average is calculated to be 62.8 \pm 6.5 mR/yr.

7.0 PERCENT OF ODCM EFFLUENT CONTROL LIMITS

The PNPS ODCM contains dose and concentration limits for radioactive effluents. In addition, the effluent controls specified ensure that radioactive releases are maintained as low as reasonably achievable. The percentage of the PNPS ODCM Control limit values were determined from doses calculated in Section 4, the effluent releases summarized in Section 2, and the ODCM Control limits/objectives listed in Tables 7.1 and 7.2.

The percent of applicable control limit values are provided to supplement the information provided in the Section 2 of this report. The format for the percent of applicable limits is modified from that prescribed in Regulatory Guide 1.21 (Reference 1) to accommodate the Radioactive Effluents Technical Specifications (RETS) which became effective March 01, 1986. The percentages have been grouped according to whether the releases were via liquid or gaseous effluent pathways.

7.1 Gaseous Effluent Releases

Dose-based effluent controls related to exposures arising from gaseous effluent releases are presented in Table 7.1. The maximum quarterly air doses and annual whole body doses listed in Table 4.1 were used to calculate the percentage values shown in Table 7.1. All doses resulting from noble gas exposure were a small percentage of the applicable effluent control.

Organ dose limits for the maximum-exposed individual from radioactive particulates, iodines, and tritium from the PNPS ODCM are also shown in Table 7.1. The maximum quarterly and annual organ doses from Tables 4.2-A through 4.2-E were used to calculate the percentages shown in Table 7.1. The resulting organ doses from Pilgrim Station's gaseous releases during 2000 were a small percentage of the corresponding effluent control.

Table 7.1

Percent of ODCM Effluent Control Limits
for Gaseous Effluent Releases During 2000

A. Instantaneous Dose Rate Limit - Noble Gases PNPS ODCM Control 3.3.1.a Limit: 500 mrem/yr Total Body Dose		
<u>Period</u>	<u>Value - mrem/yr</u>	<u>Fraction of Limit</u>
January-December	1.30E-01	2.60E-02%
B. Instantaneous Dose Rate Limit - Noble Gases PNPS ODCM Control 3.3.1.a Limit: 3000 mrem/yr Skin Dose		
<u>Period</u>	<u>Value - mrem/yr</u>	<u>Fraction of Limit</u>
January-December	9.78E-01	3.26E-02%
C. Instantaneous Dose Rate Limit - Particulates, Iodines, & Tritium PNPS ODCM Control 3.3.1.b Limit: 1500 mrem/yr Organ Dose		
<u>Period</u>	<u>Value - mrem/yr</u>	<u>Fraction of Limit</u>
January-December	7.85E-01	5.23E-02%
D. Quarterly Dose Objective - Noble Gas Gamma Air Dose PNPS ODCM Control 3.3.2.a Objective: 5 mrad Gamma Air Dose		
<u>Period</u>	<u>Value - mrad</u>	<u>Fraction of Limit</u>
January-March	2.63E-02	5.26E-01%
April-June	4.94E-02	9.88E-01%
July-September	4.38E-02	8.76E-01%
October-December	1.35E-01	2.70E+00%
E. Annual Dose Objective - Noble Gas Gamma Air Dose PNPS ODCM Control 3.3.2.b Objective: 10 mrad Gamma Air Dose		
<u>Period</u>	<u>Value - mrad/yr</u>	<u>Fraction of Limit</u>
January-December	1.95E-01	1.95E+00%

Table 7.1 (continued)

Percent of ODCM Effluent Control Limits
for Gaseous Effluent Releases During 2000

F. Quarterly Dose Objective - Noble Gas Beta Air Dose
PNPS ODCM Control 3.3.2.a
Objective: 10 mrad Beta Air Dose

<u>Period</u>	<u>Value - mrad</u>	<u>Fraction of Limit</u>
January-March	5.38E-02	5.83E-01%
April-June	8.54E-02	8.54E-01%
July-September	2.09E-01	2.09E+00%
October-December	6.67E-01	6.67E+00%

G. Annual Dose Objective - Noble Gas Gamma Air Dose
PNPS ODCM Control 3.3.2.b
Objective: 20 mrad Beta Air Dose

<u>Period</u>	<u>Value - mrad/yr</u>	<u>Fraction of Limit</u>
January-December	9.87E-01	4.94E+00%

H. Quarterly Dose Objective - Particulates, Iodines, & Tritium
PNPS ODCM Control 3.3.3.a
Objective: 7.5 mrem Organ Dose

<u>Period</u>	<u>Value - mrem</u>	<u>Fraction of Limit</u>
January-March	1.05E-01	1.40E+00%
April-June	2.03E-01	2.71E+00%
July-September	2.96E-01	3.95E+00%
October-December	2.38E-01	3.17E+00%

I. Annual Dose Objective - Particulates, Iodines, & Tritium
PNPS ODCM Control 3.3.3.b
Objective: 15 mrem Organ Dose

<u>Period</u>	<u>Value - mrem/yr</u>	<u>Fraction of Limit</u>
January-December	7.85E-01	5.23E+00%

7.2 Liquid Effluent Releases

Liquid effluent concentration limits and dose objectives from the PNPS ODCM are shown in Table 7.2. The quarterly average concentrations from Table 2.3-A were used to calculate the percent concentration limits. The maximum quarterly and annual whole body and organ doses from Tables 4.3-A through 4.3-E were used to calculate the percentages shown in Table 7.2. The resulting concentration and doses from Pilgrim Station's liquid releases during 2000 were a very small percentage of the corresponding effluent control.

Table 7.2

Percent of ODCM Effluent Control Limits
for Liquid Effluent Releases During 2000

- A. Fission and Activation Product Effluent Concentration Limit
PNPS ODCM Control 3.2.1
Limit: 10CFR20 Appendix B, Table 2, Column 2 Value

<u>Period</u>	<u>Value - $\mu\text{Ci/mL}$</u>	<u>Fraction of Limit</u>
January-March	2.02E-09	3.31E-02%
April-June	6.23E-10	2.65E-02%
July-September	8.98E-08	2.39E-01%
October-December	3.74E-09	3.04E-01%

- B. Tritium Average Concentration Limit
PNPS ODCM Control 3.2.1
Limit: 1.0E-03 $\mu\text{Ci/mL}$

<u>Period</u>	<u>Value - $\mu\text{Ci/mL}$</u>	<u>Fraction of Limit</u>
January-March	2.96E-06	2.96E-01%
April-June	3.53E-08	3.53E-03%
July-September	3.29E-06	3.29E-01%
October-December	1.02E-07	1.02E-02%

- C. Dissolved and Entrained Noble Gases Concentration Limit
PNPS ODCM Control 3.2.1
Limit: 2.0E-04 $\mu\text{Ci/mL}$

<u>Period</u>	<u>Value - $\mu\text{Ci/mL}$</u>	<u>Fraction of Limit</u>
January-March	NDA	--
April-June	NDA	--
July-September	NDA	--
October-December	NDA	--

Table 7.2 (continued)

Percent of ODCM Effluent Control Limits
for Liquid Effluent Releases During 2000

- D. Quarterly Total Body Dose Objective
PNPS ODCM Control 3.2.2.a
Objective: 1.5 mrem Total Body Dose

<u>Period</u>	<u>Value - mrem</u>	<u>Fraction of Limit</u>
January-March	8.71E-05	5.81E-03%
April-June	4.01E-05	2.67E-03%
July-September	1.02E-02	6.79E-01%
October-December	6.89E-05	4.59E-03%

- E. Annual Total Body Dose Objective
PNPS ODCM Control 3.2.2.b
Objective: 3 mrem Total Body Dose

<u>Period</u>	<u>Value - mrem</u>	<u>Fraction of Limit</u>
January-December	1.03E-02	3.43E-01%

- F. Quarterly Organ Dose Objective
PNPS ODCM Control 3.2.2.a
Objective: 5 mrem Organ Dose

<u>Period</u>	<u>Value - mrem</u>	<u>Fraction of Limit</u>
January-March	4.33E-04	8.66E-03%
April-June	8.87E-05	1.77E-03%
July-September	5.72E-02	1.14E+00%
October-December	1.01E-04	2.03E-03%

- G. Annual Organ Dose Objective
PNPS ODCM Control 3.2.2.b
Objective: 10 mrem Organ Dose

<u>Period</u>	<u>Value - mrem</u>	<u>Fraction of Limit</u>
January-December	5.78E-02	5.78E-01%

8.0 RADIOACTIVE WASTE DISPOSAL DATA

Radioactive wastes which were shipped offsite for processing and disposal during the reporting period are described in Table 8.0, 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 213 cubic meters of spent resins, filter sludges, etc., containing a total activity of about 1590 Curies were shipped from PNPS for processing and disposal. Dry compressible wastes and contaminated equipment shipped during the period totaled 738 cubic meters and contained 0.925 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 8.0. Twenty-seven shipments to Barnwell, SC (Chem Nuclear Systems, Inc.), 20 shipments to Oak Ridge, TN (GTS Duratek, ATG Catalytic), 8 shipments to Erwin, TN (Studsvik), and 4 shipments to Clive, UT (Envirocare) were made during the reporting period.

Table 8.0
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Solid Waste and Irradiated Fuel Shipments
January-June 2000

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 2000		
	Volume - m ³	Curies	Total Error
a. Spent resins, filters, filter sludges, evaporator bottoms, etc.	1.68E+02	1.30E+03	± 25%
b. Dry compressible waste, contaminated equipment, etc.	1.24E+02	1.86E-01	± 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.	Mn-54	6.63E+00%	± 25%
	Fe-55	7.23E+01%	± 25%
	Co-60	1.32E+01%	± 25%
	Cs-137	6.91E+00%	± 25%
b. Dry compressible waste, contaminated equipment, etc.	Cr-51	3.46E+00%	± 25%
	Mn-54	9.05E+00%	± 25%
	Fe-55	7.60E+01%	± 25%
	Fe-59	5.06E+00%	± 25%
	Co-60	6.00E+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
4	Tractor-trailer	Envirocare, Clive, UT
1	Tractor-trailer	GTS Duratek, Oak Ridge, TN
4	Tractor-trailer	ATG Catalytic, Oak Ridge, TN
27	Tractor-trailer	Chem Nuclear Systems, Barnwell, SC

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

Table 8.0 (continued)
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Solid Waste and Irradiated Fuel Shipments
 July-December 2000

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 2000		
	Volume - m ³	Curies	Total Error
a. Spent resins, filters, filter sludges, evaporator bottoms, etc.	4.47E+01	2.85E+02	± 25%
b. Dry compressible waste, contaminated equipment, etc.	6.14E+02	7.39E-01	± 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.	Mn-54	1.21E+01%	± 25%
	Fe-55	6.45E+01%	± 25%
	Co-60	8.94E+00%	± 25%
	Zn-65	7.26E+00%	± 25%
	Cs-137	6.28E+00%	± 25%
b. Dry compressible waste, contaminated equipment, etc.	Mn-54	1.30E+01%	± 25%
	Fe-55	8.10E+01%	± 25%
	Co-60	5.54E+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
14	Tractor-trailer	GTS Duratek, Oak Ridge, TN
1	Tractor-trailer	ATG Catalytic, Oak Ridge, TN
8	Tractor-trailer	Studsvik, Erwin, 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

9.0 OFFSITE DOSE CALCULATION MANUAL REVISIONS

The PNPS Offsite Dose Calculation Manual (ODCM) was not revised during the calendar year of 2000.

10.0 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. Duke Engineering and Services, Calculation BEC-093, "Pilgrim Station Meteorological Data Joint Frequency Distributions: First, Second, Third, and Fourth Quarters, 2000", dated April 2000.
3. "Pilgrim Nuclear Power Station Offsite Dose Calculation Manual", Revision 8, August 1999.
4. U.S. Nuclear Regulatory Commission, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10CFR50 Appendix I", Regulatory Guide 1.109, Revision 1, October 1977.
5. U.S. Nuclear Regulatory Commission, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors", Regulatory Guide 1.111, July 1977.
6. Boston Edison Company, "Pilgrim Station Unit 1 Appendix I Evaluation", April 1977.
7. DE&S Calculation No. BEC-094, "Dose Assessment for January-December 2000 Effluent Report", May 2000.
8. J.N. Hamawi, "AEOLUS", Yankee Atomic Electric Company, YAEC-1120, January 1977.

APPENDIX A

Meteorological Joint Frequency Distributions

TABLE	TABLE TITLE	PAGE
A-1	Distribution of Wind Directions and Speeds for the 33-ft Level of the 220-ft Tower	57
A-2	Distribution of Wind Directions and Speeds for the 220-ft Level of the 220-ft Tower	73

Table A-1
Distributions of Wind Directions and Speeds
for the 33-ft Level of the 220-ft Tower

PILGRIM JAN00-MAR00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 24.76	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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		1	2	2	2	3	2	2	0	0	0	1	0	1	2	2	1	0	21
(1)		.21	.43	.43	.43	.64	.43	.43	.00	.00	.00	.21	.00	.21	.43	.43	.21	.00	4.51
(2)		.05	.11	.11	.11	.16	.11	.11	.00	.00	.00	.05	.00	.05	.11	.11	.05	.00	1.12
4-7		12	8	4	14	30	9	2	8	9	6	12	15	34	23	25	14	0	225
(1)		2.58	1.72	.86	3.00	6.44	1.93	.43	1.72	1.93	1.29	2.58	3.22	7.30	4.94	5.36	3.00	.00	48.28
(2)		.64	.43	.21	.74	1.59	.48	.11	.43	.48	.32	.64	.80	1.81	1.22	1.33	.74	.00	11.96
8-12		2	2	2	5	4	7	0	0	14	32	8	8	42	28	30	1	0	185
(1)		.43	.43	.43	1.07	.86	1.50	.00	.00	3.00	6.87	1.72	1.72	9.01	6.01	6.44	.21	.00	39.70
(2)		.11	.11	.11	.27	.21	.37	.00	.00	.74	1.70	.43	.43	2.23	1.49	1.59	.05	.00	9.83
13-18		0	0	0	0	1	0	0	0	5	9	2	0	6	8	4	0	0	35
(1)		.00	.00	.00	.00	.21	.00	.00	.00	1.07	1.93	.43	.00	1.29	1.72	.86	.00	.00	7.51
(2)		.00	.00	.00	.00	.05	.00	.00	.00	.27	.48	.11	.00	.32	.43	.21	.00	.00	1.86
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		15	12	8	21	38	18	4	8	28	47	23	23	83	61	61	16	0	466
(1)		3.22	2.58	1.72	4.51	8.15	3.86	.86	1.72	6.01	10.09	4.94	4.94	17.81	13.09	13.09	3.43	.00	100.00
(2)		.80	.64	.43	1.12	2.02	.96	.21	.43	1.49	2.50	1.22	1.22	4.41	3.24	3.24	.85	.00	24.76

33.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 1.59	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	1	0	1
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.33	.00	3.33
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05
4-7		0	1	1	0	1	0	0	2	2	1	2	0	0	1	0	1	0	12
(1)		.00	3.33	3.33	.00	3.33	.00	.00	6.67	6.67	3.33	6.67	.00	.00	3.33	.00	3.33	.00	40.00
(2)		.00	.05	.05	.00	.05	.00	.00	.11	.11	.05	.11	.00	.00	.05	.00	.05	.00	.64
8-12		0	0	0	0	1	2	0	0	0	2	0	0	7	1	1	0	0	14
(1)		.00	.00	.00	.00	3.33	6.67	.00	.00	.00	6.67	.00	.00	23.33	3.33	3.33	.00	.00	46.67
(2)		.00	.00	.00	.00	.05	.11	.00	.00	.00	.11	.00	.00	.37	.05	.05	.00	.00	.74
13-18		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	6.67	3.33	.00	.00	.00	.00	.00	.00	.00	10.00
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.11	.05	.00	.00	.00	.00	.00	.00	.00	.16
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	1	1	0	2	2	0	2	4	4	2	0	7	2	1	2	0	30
(1)		.00	3.33	3.33	.00	6.67	6.67	.00	6.67	13.33	13.33	6.67	.00	23.33	6.67	3.33	6.67	.00	100.00
(2)		.00	.05	.05	.00	.11	.11	.00	.11	.21	.21	.11	.00	.37	.11	.05	.11	.00	1.59

(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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM JAN00-MAR00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 2.82	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	1	0	1	1	0	1	0	0	1	0	0	0	0	0	0
(1)		.00	.00	.00	1.89	.00	1.89	1.89	.00	1.89	.00	.00	1.89	.00	.00	.00	.00	.00	.00
(2)		.00	.00	.00	.05	.00	.05	.05	.00	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00
4-7		1	0	0	1	1	0	1	0	1	2	4	0	2	0	2	2	0	0
(1)		1.89	.00	.00	1.89	1.89	.00	1.89	.00	1.89	3.77	7.55	.00	3.77	.00	3.77	3.77	.00	.00
(2)		.05	.00	.00	.05	.05	.00	.05	.00	.05	.11	.21	.00	.11	.00	.11	.11	.00	.00
8-12		1	0	0	1	0	1	0	0	2	5	3	0	6	7	1	1	0	0
(1)		1.89	.00	.00	1.89	.00	1.89	.00	.00	3.77	9.43	5.66	.00	11.32	13.21	1.89	1.89	.00	.00
(2)		.05	.00	.00	.05	.00	.05	.00	.00	.11	.27	.16	.00	.32	.37	.05	.05	.00	.00
13-18		0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0
(1)		.00	.00	.00	.00	.00	.00	.00	.00	1.89	.00	.00	.00	.00	1.89	1.89	.00	.00	.00
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.05	.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	2	0	0	3	1	2	2	0	5	7	7	1	8	8	4	3	0	0	0
(1)		3.77	.00	.00	5.66	1.89	3.77	3.77	.00	9.43	13.21	13.21	1.89	15.09	15.09	7.55	5.66	.00	.00
(2)		.11	.00	.00	.16	.05	.11	.11	.00	.27	.37	.37	.05	.43	.43	.21	.16	.00	.00

33.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 21.09	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	0	1	2	2	0	1	0	3	3	2	3	1	1	1	0	0
(1)		.00	.25	.00	.25	.50	.50	.00	.25	.00	.76	.76	.50	.76	.25	.25	.25	.00	.00
(2)		.00	.05	.00	.05	.11	.11	.00	.05	.00	.16	.16	.11	.16	.05	.05	.05	.00	.00
4-7		10	1	1	7	4	2	6	13	3	5	5	9	12	11	6	5	0	0
(1)		2.52	.25	.25	1.76	1.01	.50	1.51	3.27	.76	1.26	1.26	2.27	3.02	2.77	1.51	1.26	.00	.00
(2)		.53	.05	.05	.37	.21	.11	.32	.69	.16	.27	.27	.48	.64	.58	.32	.27	.00	.00
8-12		0	1	8	0	0	1	2	1	14	30	10	7	71	59	34	2	0	0
(1)		.00	.25	2.02	.00	.00	.25	.50	.25	3.53	7.56	2.52	1.76	17.88	14.86	8.56	.50	.00	.00
(2)		.00	.05	.43	.00	.00	.05	.11	.05	.74	1.59	.53	.37	3.77	3.13	1.81	.11	.00	.00
13-18		0	0	0	0	0	0	0	0	2	3	0	0	6	19	6	0	0	0
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.50	.76	.00	.00	1.51	4.79	1.51	.00	.00	.00
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.11	.16	.00	.00	.32	1.01	.32	.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	3	9	8	6	5	8	15	19	41	18	18	92	90	47	8	0	0	0
(1)		2.52	.76	2.27	2.02	1.51	1.26	2.02	3.78	4.79	10.33	4.53	4.53	23.17	22.67	11.84	2.02	.00	.00
(2)		.53	.16	.48	.43	.32	.27	.43	.80	1.01	2.18	.96	.96	4.89	4.78	2.50	.43	.00	.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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM JAN00-MAR00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 31.30	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	1	3	0	6	2	1	5	4	3	0	1	5	5	3	1	3	0	0	43
(1)	.17	.51	.00	1.02	.34	.17	.85	.68	.51	.00	.17	.85	.85	.51	.17	.51	.00	.00	7.30
(2)	.05	.16	.00	.32	.11	.05	.27	.21	.16	.00	.05	.27	.27	.16	.05	.16	.00	.00	2.28
4-7	6	7	5	3	5	1	13	14	21	43	33	53	28	24	26	13	0	0	295
(1)	1.02	1.19	.85	.51	.85	.17	2.21	2.38	3.57	7.30	5.60	9.00	4.75	4.07	4.41	2.21	.00	.00	50.08
(2)	.32	.37	.27	.16	.27	.05	.69	.74	1.12	2.28	1.75	2.82	1.49	1.28	1.38	.69	.00	.00	15.67
8-12	0	7	3	5	1	4	0	2	31	48	26	23	27	15	10	0	0	0	202
(1)	.00	1.19	.51	.85	.17	.68	.00	.34	5.26	8.15	4.41	3.90	4.58	2.55	1.70	.00	.00	.00	34.30
(2)	.00	.37	.16	.27	.05	.21	.00	.11	1.65	2.55	1.38	1.22	1.43	.80	.53	.00	.00	.00	10.73
13-18	0	1	4	0	2	0	0	0	2	14	1	1	14	7	1	0	0	0	47
(1)	.00	.17	.68	.00	.34	.00	.00	.00	.34	2.38	.17	.17	2.38	1.19	.17	.00	.00	.00	7.98
(2)	.00	.05	.21	.00	.11	.00	.00	.00	.11	.74	.05	.05	.74	.37	.05	.00	.00	.00	2.50
19-24	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00	.00	.34
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
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	7	18	12	14	10	6	18	20	59	105	61	82	74	49	38	16	0	0	589
(1)	1.19	3.06	2.04	2.38	1.70	1.02	3.06	3.40	10.02	17.83	10.36	13.92	12.56	8.32	6.45	2.72	.00	.00	100.00
(2)	.37	.96	.64	.74	.53	.32	.96	1.06	3.13	5.58	3.24	4.36	3.93	2.60	2.02	.85	.00	.00	31.30

33.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 13.28	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	3	2	0	0	1	1	0	4	4	9	6	3	8	5	1	4	0	0	51
(1)	1.20	.80	.00	.00	.40	.40	.00	1.60	1.60	3.60	2.40	1.20	3.20	2.00	.40	1.60	.00	.00	20.40
(2)	.16	.11	.00	.00	.05	.05	.00	.21	.21	.48	.32	.16	.43	.27	.05	.21	.00	.00	2.71
4-7	5	1	2	0	0	3	2	5	12	13	25	26	6	2	2	1	0	0	105
(1)	2.00	.40	.80	.00	.00	1.20	.80	2.00	4.80	5.20	10.00	10.40	2.40	.80	.80	.40	.00	.00	42.00
(2)	.27	.05	.11	.00	.00	.16	.11	.27	.64	.69	1.33	1.38	.32	.11	.11	.05	.00	.00	5.58
8-12	2	9	4	9	1	0	2	1	6	13	11	1	1	0	5	1	0	0	66
(1)	.80	3.60	1.60	3.60	.40	.00	.80	.40	2.40	5.20	4.40	.40	.40	.00	2.00	.40	.00	.00	26.40
(2)	.11	.48	.21	.48	.05	.00	.11	.05	.32	.69	.58	.05	.05	.00	.27	.05	.00	.00	3.51
13-18	3	8	2	0	0	1	0	0	1	3	0	0	0	3	5	1	0	0	27
(1)	1.20	3.20	.80	.00	.00	.40	.00	.00	.40	1.20	.00	.00	.00	1.20	2.00	.40	.00	.00	10.80
(2)	.16	.43	.11	.00	.00	.05	.00	.00	.05	.16	.00	.00	.00	.16	.27	.05	.00	.00	1.43
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	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
(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	13	20	8	9	2	5	4	10	24	38	42	30	15	10	13	7	0	0	250
(1)	5.20	8.00	3.20	3.60	.80	2.00	1.60	4.00	9.60	15.20	16.80	12.00	6.00	4.00	5.20	2.80	.00	.00	100.00
(2)	.69	1.06	.43	.48	.11	.27	.21	.53	1.28	2.02	2.23	1.59	.80	.53	.69	.37	.00	.00	13.28

(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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM JAN00-MAR00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = 5.15

SPEED(MPH)	WIND DIRECTION FROM																VRBL	TOTAL		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW				
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.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
C-3	1	1	1	0	0	2	3	2	2	2	4	3	0	1	2	0	0	0	24	
(1)	1.03	1.03	1.03	.00	.00	2.06	3.09	2.06	2.06	2.06	4.12	3.09	.00	1.03	2.06	.00	.00	.00	24.74	
(2)	.05	.05	.05	.00	.00	.11	.16	.11	.11	.11	.21	.16	.00	.05	.11	.00	.00	.00	1.28	
4-7	3	2	0	0	0	0	0	0	0	5	6	4	2	4	1	1	0	28		
(1)	3.09	2.06	.00	.00	.00	.00	.00	.00	.00	5.15	6.19	4.12	2.06	4.12	1.03	1.03	.00	28.87		
(2)	.16	.11	.00	.00	.00	.00	.00	.00	.00	.27	.32	.21	.11	.21	.05	.05	.00	1.49		
8-12	2	8	1	2	0	0	0	2	1	0	6	0	1	0	0	0	0	23		
(1)	2.06	8.25	1.03	2.06	.00	.00	.00	2.06	1.03	.00	6.19	.00	1.03	.00	.00	.00	.00	23.71		
(2)	.11	.43	.05	.11	.00	.00	.00	.11	.05	.00	.32	.00	.05	.00	.00	.00	.00	1.22		
13-18	8	1	0	1	0	0	0	0	2	1	0	0	0	0	6	2	0	21		
(1)	8.25	1.03	.00	1.03	.00	.00	.00	.00	2.06	1.03	.00	.00	.00	.00	6.19	2.06	.00	21.65		
(2)	.43	.05	.00	.05	.00	.00	.00	.00	.11	.05	.00	.00	.00	.00	.32	.11	.00	1.12		
19-24	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	1.03	.00	.00	.00	.00	.00	.00	.00	.00	1.03		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05		
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
ALL SPEEDS	14	12	2	3	0	2	3	4	6	8	16	7	3	5	9	3	0	97		
(1)	14.43	12.37	2.06	3.09	.00	2.06	3.09	4.12	6.19	8.25	16.49	7.22	3.09	5.15	9.28	3.09	.00	100.00		
(2)	.74	.64	.11	.16	.00	.11	.16	.21	.32	.43	.85	.37	.16	.27	.48	.16	.00	5.15		

33.0 FT WIND DATA

STABILITY CLASS ALL

CLASS FREQUENCY (PERCENT) = 100.00

SPEED(MPH)	WIND DIRECTION FROM																VRBL	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	6	9	3	10	8	9	11	11	10	14	15	14	17	12	7	10	0	166
(1)	.32	.48	.16	.53	.43	.48	.58	.58	.53	.74	.80	.74	.90	.64	.37	.53	.00	8.82
(2)	.32	.48	.16	.53	.43	.48	.58	.58	.53	.74	.80	.74	.90	.64	.37	.53	.00	8.82
4-7	37	20	13	25	41	15	24	42	48	75	87	107	84	65	62	37	0	782
(1)	1.97	1.06	.69	1.33	2.18	.80	1.28	2.23	2.55	3.99	4.62	5.69	4.46	3.45	3.29	1.97	.00	41.55
(2)	1.97	1.06	.69	1.33	2.18	.80	1.28	2.23	2.55	3.99	4.62	5.69	4.46	3.45	3.29	1.97	.00	41.55
8-12	7	27	18	22	7	15	4	6	68	130	64	39	155	110	81	5	0	758
(1)	.37	1.43	.96	1.17	.37	.80	.21	.32	3.61	6.91	3.40	2.07	8.24	5.84	4.30	.27	.00	40.28
(2)	.37	1.43	.96	1.17	.37	.80	.21	.32	3.61	6.91	3.40	2.07	8.24	5.84	4.30	.27	.00	40.28
13-18	11	10	6	1	3	1	0	0	15	31	3	1	26	38	23	3	0	172
(1)	.58	.53	.32	.05	.16	.05	.00	.00	.80	1.65	.16	.05	1.38	2.02	1.22	.16	.00	9.14
(2)	.58	.53	.32	.05	.16	.05	.00	.00	.80	1.65	.16	.05	1.38	2.02	1.22	.16	.00	9.14
19-24	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00	.00	.00	.00	.00	.00	.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00	.00	.00	.00	.00	.00	.21
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	61	66	40	58	59	40	39	59	145	250	169	161	282	225	173	55	0	1882
(1)	3.24	3.51	2.13	3.08	3.13	2.13	2.07	3.13	7.70	13.28	8.98	8.55	14.98	11.96	9.19	2.92	.00	100.00
(2)	3.24	3.51	2.13	3.08	3.13	2.13	2.07	3.13	7.70	13.28	8.98	8.55	14.98	11.96	9.19	2.92	.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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM APR00-JUN00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 15.77

SPEED(MPH)	WIND DIRECTION FROM																TOTAL	
	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	22	36	28	32	13	3	2	2	3	4	4	3	6	9	6	6	0	179
(1)	7.64	12.50	9.72	11.11	4.51	1.04	.69	.69	1.04	1.39	1.39	1.04	2.08	3.13	2.08	2.08	.00	62.15
(2)	1.20	1.97	1.53	1.75	.71	.16	.11	.11	.16	.22	.22	.16	.33	.49	.33	.33	.00	9.80
8-12	0	4	20	4	0	6	0	1	8	35	4	1	5	4	1	3	0	96
(1)	.00	1.39	6.94	1.39	.00	2.08	.00	.35	2.78	12.15	1.39	.35	1.74	1.39	.35	1.04	.00	33.33
(2)	.00	.22	1.10	.22	.00	.33	.00	.05	.44	1.92	.22	.05	.27	.22	.05	.16	.00	5.26
13-18	0	0	1	0	0	0	0	0	4	8	0	0	0	0	0	0	0	13
(1)	.00	.00	.35	.00	.00	.00	.00	.00	1.39	2.78	.00	.00	.00	.00	.00	.00	.00	4.51
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.22	.44	.00	.00	.00	.00	.00	.00	.00	.71
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	22	40	49	36	13	9	2	3	15	47	8	4	11	13	7	9	0	288
(1)	7.64	13.89	17.01	12.50	4.51	3.13	.69	1.04	5.21	16.32	2.78	1.39	3.82	4.51	2.43	3.13	.00	100.00
(2)	1.20	2.19	2.68	1.97	.71	.49	.11	.16	.82	2.57	.44	.22	.60	.71	.38	.49	.00	15.77

33.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 3.67

SPEED(MPH)	WIND DIRECTION FROM																TOTAL	
	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	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
(1)	2.99	1.49	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.48
(2)	.11	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
4-7	0	4	3	4	4	1	2	1	1	5	0	5	2	2	0	0	0	34
(1)	.00	5.97	4.48	5.97	5.97	1.49	2.99	1.49	1.49	7.46	.00	7.46	2.99	2.99	.00	.00	.00	50.75
(2)	.00	.22	.16	.22	.22	.05	.11	.05	.05	.27	.00	.27	.11	.11	.00	.00	.00	1.86
8-12	0	0	2	0	0	0	1	0	4	18	4	0	0	0	0	0	0	29
(1)	.00	.00	2.99	.00	.00	.00	1.49	.00	5.97	26.87	5.97	.00	.00	.00	.00	.00	.00	43.28
(2)	.00	.00	.11	.00	.00	.00	.05	.00	.22	.99	.22	.00	.00	.00	.00	.00	.00	1.59
13-18	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	1.49	.00	.00	.00	.00	.00	.00	.00	1.49
(2)	.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
(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	5	5	4	4	1	3	1	5	24	4	5	2	2	0	0	0	67
(1)	2.99	7.46	7.46	5.97	5.97	1.49	4.48	1.49	7.46	35.82	5.97	7.46	2.99	2.99	.00	.00	.00	100.00
(2)	.11	.27	.27	.22	.22	.05	.16	.05	.27	1.31	.22	.27	.11	.11	.00	.00	.00	3.67

(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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM APR00-JUN00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 5.53			
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL			
							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	0	0	
(1)	.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
C-3	0	0	2	2	0	0	1	0	0	0	0	0	2	0	1	1	0	0	0	0	9
(1)	.00	.00	1.98	1.98	.00	.00	.99	.00	.00	.00	.00	.00	1.98	.00	.99	.99	.00	.00	.00	.00	8.91
(2)	.00	.00	.11	.11	.00	.00	.05	.00	.00	.00	.00	.00	.11	.00	.05	.05	.00	.00	.00	.00	.49
4-7	3	1	5	6	8	3	0	2	5	3	4	1	2	3	2	1	0	0	0	0	49
(1)	2.97	.99	4.95	5.94	7.92	2.97	.00	1.98	4.95	2.97	3.96	.99	1.98	2.97	1.98	.99	.00	.00	.00	.00	48.51
(2)	.16	.05	.27	.33	.44	.16	.00	.11	.27	.16	.22	.05	.11	.16	.11	.05	.00	.00	.00	.00	2.68
8-12	2	0	4	2	1	0	1	0	5	13	4	0	1	2	0	0	0	0	0	0	35
(1)	1.98	.00	3.96	1.98	.99	.00	.99	.00	4.95	12.87	3.96	.00	.99	1.98	.00	.00	.00	.00	.00	.00	34.65
(2)	.11	.00	.22	.11	.05	.00	.05	.00	.27	.71	.22	.00	.05	.11	.00	.00	.00	.00	.00	.00	1.92
13-18	0	0	3	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	7
(1)	.00	.00	2.97	.99	.00	.00	.00	.00	.00	2.97	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.93
(2)	.00	.00	.16	.05	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38
19-24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.99	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.99
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	1	14	11	9	3	2	2	10	20	8	1	5	5	3	2	0	0	0	0	101
(1)	4.95	.99	13.86	10.89	8.91	2.97	1.98	1.98	9.90	19.80	7.92	.99	4.95	4.95	2.97	1.98	.00	.00	.00	.00	100.00
(2)	.27	.05	.77	.60	.49	.16	.11	.11	.55	1.10	.44	.05	.27	.27	.16	.11	.00	.00	.00	.00	5.53

33.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 27.00			
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL			
							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	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	6	11	5	11	9	6	7	6	4	3	0	0	0	4	4	5	0	0	0	0	81
(1)	1.22	2.23	1.01	2.23	1.83	1.22	1.42	1.22	.81	.61	.00	.00	.00	.81	.81	1.01	.00	.00	.00	.00	16.43
(2)	.33	.60	.27	.60	.49	.33	.38	.33	.22	.16	.00	.00	.00	.22	.22	.27	.00	.00	.00	.00	4.44
4-7	5	19	38	21	43	11	6	4	19	28	10	8	9	4	4	7	0	0	0	0	236
(1)	1.01	3.85	7.71	4.26	8.72	2.23	1.22	.81	3.85	5.68	2.03	1.62	1.83	.81	.81	1.42	.00	.00	.00	.00	47.87
(2)	.27	1.04	2.08	1.15	2.35	.60	.33	.22	1.04	1.53	.55	.44	.49	.22	.22	.38	.00	.00	.00	.00	12.92
8-12	3	8	18	14	14	0	2	0	7	52	6	1	9	2	3	1	0	0	0	0	140
(1)	.61	1.62	3.65	2.84	2.84	.00	.41	.00	1.42	10.55	1.22	.20	1.83	.41	.61	.20	.00	.00	.00	.00	28.40
(2)	.16	.44	.99	.77	.77	.00	.11	.00	.38	2.85	.33	.05	.49	.11	.16	.05	.00	.00	.00	.00	7.67
13-18	3	11	8	4	1	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	35
(1)	.61	2.23	1.62	.81	.20	.00	.00	.00	.00	1.62	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.10
(2)	.16	.60	.44	.22	.05	.00	.00	.00	.00	.44	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.92
19-24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	17	49	69	50	67	17	15	10	30	92	16	9	18	10	11	13	0	0	0	0	493
(1)	3.45	9.94	14.00	10.14	13.59	3.45	3.04	2.03	6.09	18.66	3.25	1.83	3.65	2.03	2.23	2.64	.00	.00	.00	.00	100.00
(2)	.93	2.68	3.78	2.74	3.67	.93	.82	.55	1.64	5.04	.88	.49	.99	.55	.60	.71	.00	.00	.00	.00	27.00

(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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM APR00-JUN00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 34.56			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	0	0	
(1)	.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
C-3	14	6	8	13	9	9	9	7	8	4	8	7	8	14	6	6	0	0	0	0	136
(1)	2.22	.95	1.27	2.06	1.43	1.43	1.43	1.11	1.27	.63	1.27	1.11	1.27	2.22	.95	.95	.00	.00	.00	.00	21.55
(2)	.77	.33	.44	.71	.49	.49	.49	.38	.44	.22	.44	.38	.44	.77	.33	.33	.00	.00	.00	.00	7.45
4-7	12	12	9	13	9	9	20	8	21	63	32	53	18	8	12	6	0	0	0	0	305
(1)	1.90	1.90	1.43	2.06	1.43	1.43	3.17	1.27	3.33	9.98	5.07	8.40	2.85	1.27	1.90	.95	.00	.00	.00	.00	48.34
(2)	.66	.66	.49	.71	.49	.49	1.10	.44	1.15	3.45	1.75	2.90	.99	.44	.66	.33	.00	.00	.00	.00	16.70
8-12	7	29	10	4	11	4	4	1	15	58	16	3	5	0	1	3	0	0	0	0	171
(1)	1.11	4.60	1.58	.63	1.74	.63	.63	.16	2.38	9.19	2.54	.48	.79	.00	.16	.48	.00	.00	.00	.00	27.10
(2)	.38	1.59	.55	.22	.60	.22	.22	.05	.82	3.18	.88	.16	.27	.00	.05	.16	.00	.00	.00	.00	9.36
13-18	0	11	4	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	19
(1)	.00	1.74	.63	.16	.32	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.01
(2)	.00	.60	.22	.05	.11	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.04
19-24	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
(2)	.00	.00	.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	0	0
(1)	.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
ALL SPEEDS	33	58	31	31	31	22	33	16	44	126	56	63	31	22	19	15	0	0	0	0	631
(1)	5.23	9.19	4.91	4.91	4.91	3.49	5.23	2.54	6.97	19.97	8.87	9.98	4.91	3.49	3.01	2.38	.00	.00	.00	.00	100.00
(2)	1.81	3.18	1.70	1.70	1.70	1.20	1.81	.88	2.41	6.90	3.07	3.45	1.70	1.20	1.04	.82	.00	.00	.00	.00	34.56

33.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 9.09			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	2	1	1	3	0	0	0	1	7	7	10	4	1	2	2	0	0	0	0	43
(1)	1.20	1.20	.60	.60	1.81	.00	.00	.00	.60	4.22	4.22	6.02	2.41	.60	1.20	1.20	.00	.00	.00	.00	25.90
(2)	.11	.11	.05	.05	.16	.00	.00	.00	.05	.38	.38	.55	.22	.05	.11	.11	.00	.00	.00	.00	2.35
4-7	2	1	1	6	8	0	1	0	5	19	25	12	9	1	3	3	0	0	0	0	96
(1)	1.20	.60	.60	3.61	4.82	.00	.60	.00	3.01	11.45	15.06	7.23	5.42	.60	1.81	1.81	.00	.00	.00	.00	57.83
(2)	.11	.05	.05	.33	.44	.00	.05	.00	.27	1.04	1.37	.66	.49	.05	.16	.16	.00	.00	.00	.00	5.26
8-12	0	1	0	0	1	0	0	0	1	6	16	1	0	1	0	0	0	0	0	0	27
(1)	.00	.60	.00	.00	.60	.00	.00	.00	.60	3.61	9.64	.60	.00	.60	.00	.00	.00	.00	.00	.00	16.27
(2)	.00	.05	.00	.00	.05	.00	.00	.00	.05	.33	.88	.05	.00	.05	.00	.00	.00	.00	.00	.00	1.48
13-18	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
(2)	.00	.00	.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	0	0
(1)	.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
GT 24	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	4	4	2	7	12	0	1	0	7	32	48	23	13	3	5	5	0	0	0	0	166
(1)	2.41	2.41	1.20	4.22	7.23	.00	.60	.00	4.22	19.28	28.92	13.86	7.83	1.81	3.01	3.01	.00	.00	.00	.00	100.00
(2)	.22	.22	.11	.38	.66	.00	.05	.00	.38	1.75	2.63	1.26	.71	.16	.27	.27	.00	.00	.00	.00	9.09

(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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM APR00-JUN00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 4.38	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	0	0	0	1	2	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	1.25	1.25	.00	.00	.00	1.25	2.50	.00	.00	.00	.00	.00	.00	6.25
(2)	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.05	.11	.00	.00	.00	.00	.00	.00	.27
4-7	0	0	0	2	0	1	0	0	5	7	22	9	2	1	0	1	0	50	
(1)	.00	.00	.00	2.50	.00	1.25	.00	.00	6.25	8.75	27.50	11.25	2.50	1.25	.00	1.25	.00	62.50	
(2)	.00	.00	.00	.11	.00	.05	.00	.00	.27	.38	1.20	.49	.11	.05	.00	.05	.00	2.74	
8-12	0	0	0	0	0	0	0	0	3	12	10	0	0	0	0	0	0	25	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	3.75	15.00	12.50	.00	.00	.00	.00	.00	.00	31.25	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.16	.66	.55	.00	.00	.00	.00	.00	.00	1.37	
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	2	0	2	1	0	8	19	33	11	2	1	0	1	0	80	
(1)	.00	.00	.00	2.50	.00	2.50	1.25	.00	10.00	23.75	41.25	13.75	2.50	1.25	.00	1.25	.00	100.00	
(2)	.00	.00	.00	.11	.00	.11	.05	.00	.44	1.04	1.81	.60	.11	.05	.00	.05	.00	4.38	

33.0 FT WIND DATA		STABILITY CLASS ALL																CLASS FREQUENCY (PERCENT) = 100.00	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	24	20	16	27	21	16	18	13	13	14	16	19	14	19	13	14	0	277	
(1)	1.31	1.10	.88	1.48	1.15	.88	.99	.71	.71	.77	.88	1.04	.77	1.04	.71	.77	.00	15.17	
(2)	1.31	1.10	.88	1.48	1.15	.88	.99	.71	.71	.77	.88	1.04	.77	1.04	.71	.77	.00	15.17	
4-7	44	73	84	84	85	28	31	17	59	129	97	91	48	28	27	24	0	949	
(1)	2.41	4.00	4.60	4.60	4.65	1.53	1.70	.93	3.23	7.06	5.31	4.98	2.63	1.53	1.48	1.31	.00	51.97	
(2)	2.41	4.00	4.60	4.60	4.65	1.53	1.70	.93	3.23	7.06	5.31	4.98	2.63	1.53	1.48	1.31	.00	51.97	
8-12	12	42	54	24	27	10	8	2	43	194	60	6	20	9	5	7	0	523	
(1)	.66	2.30	2.96	1.31	1.48	.55	.44	.11	2.35	10.62	3.29	.33	1.10	.49	.27	.38	.00	28.64	
(2)	.66	2.30	2.96	1.31	1.48	.55	.44	.11	2.35	10.62	3.29	.33	1.10	.49	.27	.38	.00	28.64	
13-18	3	22	16	6	3	0	0	0	4	21	0	0	0	0	0	0	0	75	
(1)	.16	1.20	.88	.33	.16	.00	.00	.00	.22	1.15	.00	.00	.00	.00	.00	.00	.00	4.11	
(2)	.16	1.20	.88	.33	.16	.00	.00	.00	.22	1.15	.00	.00	.00	.00	.00	.00	.00	4.11	
19-24	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.11	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.11	
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	83	157	170	141	136	54	57	32	119	360	173	116	82	56	45	45	0	1826	
(1)	4.55	8.60	9.31	7.72	7.45	2.96	3.12	1.75	6.52	19.72	9.47	6.35	4.49	3.07	2.46	2.46	.00	100.00	
(2)	4.55	8.60	9.31	7.72	7.45	2.96	3.12	1.75	6.52	19.72	9.47	6.35	4.49	3.07	2.46	2.46	.00	100.00	

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 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-1 (continued)

PILGRIM JUL00-SEP00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 7.06				
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL				
							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	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	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.65	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.31
(2)	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
4-7	18	23	6	9	4	3	0	0	2	10	10	2	10	4	4	15	0	0	0	0	0	120
(1)	11.76	15.03	3.92	5.88	2.61	1.96	.00	.00	1.31	6.54	6.54	1.31	6.54	2.61	2.61	9.80	.00	.00	.00	.00	.00	78.43
(2)	.83	1.06	.28	.42	.18	.14	.00	.00	.09	.46	.46	.09	.46	.18	.18	.69	.00	.00	.00	.00	.00	5.54
8-12	0	3	6	0	0	5	0	0	7	7	3	0	0	0	0	0	0	0	0	0	0	31
(1)	.00	1.96	3.92	.00	.00	3.27	.00	.00	4.58	4.58	1.96	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.26
(2)	.00	.14	.28	.00	.00	.23	.00	.00	.32	.32	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.43
13-18	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
19-24	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
GT 24	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
ALL SPEEDS	19	27	12	9	4	8	0	0	9	17	13	2	10	4	4	15	0	0	0	0	0	153
(1)	12.42	17.65	7.84	5.88	2.61	5.23	.00	.00	5.88	11.11	8.50	1.31	6.54	2.61	2.61	9.80	.00	.00	.00	.00	.00	100.00
(2)	.88	1.25	.55	.42	.18	.37	.00	.00	.42	.78	.60	.09	.46	.18	.18	.69	.00	.00	.00	.00	.00	7.06

33.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 3.32				
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL				
							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	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	2	2	1	0	0	0	0	0	0	0	0	1	0	3	3	2	0	0	0	0	0	14
(1)	2.78	2.78	1.39	.00	.00	.00	.00	.00	.00	.00	.00	1.39	.00	4.17	4.17	2.78	.00	.00	.00	.00	.00	19.44
(2)	.09	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.14	.14	.09	.00	.00	.00	.00	.00	.65
4-7	2	11	3	3	1	0	0	1	4	3	4	2	4	5	2	3	0	0	0	0	0	48
(1)	2.78	15.28	4.17	4.17	1.39	.00	.00	1.39	5.56	4.17	5.56	2.78	5.56	6.94	2.78	4.17	.00	.00	.00	.00	.00	66.67
(2)	.09	.51	.14	.14	.05	.00	.00	.05	.18	.14	.18	.09	.18	.23	.09	.14	.00	.00	.00	.00	.00	2.21
8-12	0	0	3	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	10
(1)	.00	.00	4.17	.00	.00	.00	.00	.00	4.17	5.56	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.89
(2)	.00	.00	.14	.00	.00	.00	.00	.00	.14	.18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46
13-18	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
19-24	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
GT 24	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
ALL SPEEDS	4	13	7	3	1	0	0	1	7	7	4	3	4	8	5	5	0	0	0	0	0	72
(1)	5.56	18.06	9.72	4.17	1.39	.00	.00	1.39	9.72	9.72	5.56	4.17	5.56	11.11	6.94	6.94	.00	.00	.00	.00	.00	100.00
(2)	.18	.60	.32	.14	.05	.00	.00	.05	.32	.32	.18	.14	.18	.37	.23	.23	.00	.00	.00	.00	.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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM JUL00-SEP00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS C

CLASS FREQUENCY (PERCENT) = 3.60

SPEED(MPH)	WIND DIRECTION FROM																TOTAL		
	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	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	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	1.28	2.56	.00	1.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.13
(2)	.00	.05	.09	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
4-7	4	5	2	3	7	7	1	1	3	4	10	5	6	0	2	1	0	0	61
(1)	5.13	6.41	2.56	3.85	8.97	8.97	1.28	1.28	3.85	5.13	12.82	6.41	7.69	.00	2.56	1.28	.00	.00	78.21
(2)	.18	.23	.09	.14	.32	.32	.05	.05	.14	.18	.46	.23	.28	.00	.09	.05	.00	.00	2.81
8-12	0	1	2	0	0	0	0	0	4	4	2	0	0	0	0	0	0	0	13
(1)	.00	1.28	2.56	.00	.00	.00	.00	.00	5.13	5.13	2.56	.00	.00	.00	.00	.00	.00	.00	16.67
(2)	.00	.05	.09	.00	.00	.00	.00	.00	.18	.18	.09	.00	.00	.00	.00	.00	.00	.00	.60
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	4	7	6	3	8	7	1	1	7	8	12	5	6	0	2	1	0	0	78
(1)	5.13	8.97	7.69	3.85	10.26	8.97	1.28	1.28	8.97	10.26	15.38	6.41	7.69	.00	2.56	1.28	.00	.00	100.00
(2)	.18	.32	.28	.14	.37	.32	.05	.05	.32	.37	.55	.23	.28	.00	.09	.05	.00	.00	3.60

33.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 22.79

SPEED(MPH)	WIND DIRECTION FROM																TOTAL		
	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	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	5	4	10	13	1	4	3	2	2	1	1	2	2	3	3	6	0	0	62
(1)	1.01	.81	2.02	2.63	.20	.81	.61	.40	.40	.20	.20	.40	.40	.61	.61	1.21	.00	.00	12.55
(2)	.23	.18	.46	.60	.05	.18	.14	.09	.09	.05	.05	.09	.09	.14	.14	.28	.00	.00	2.86
4-7	14	26	25	37	38	12	6	4	37	40	35	12	16	8	15	5	0	0	330
(1)	2.83	5.26	5.06	7.49	7.69	2.43	1.21	.81	7.49	8.10	7.09	2.43	3.24	1.62	3.04	1.01	.00	.00	66.80
(2)	.65	1.20	1.15	1.71	1.75	.55	.28	.18	1.71	1.85	1.61	.55	.74	.37	.69	.23	.00	.00	15.22
8-12	5	21	32	1	4	1	0	0	15	19	4	0	0	0	0	0	0	0	102
(1)	1.01	4.25	6.48	.20	.81	.20	.00	.00	3.04	3.85	.81	.00	.00	.00	.00	.00	.00	.00	20.65
(2)	.23	.97	1.48	.05	.18	.05	.00	.00	.69	.88	.18	.00	.00	.00	.00	.00	.00	.00	4.70
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	24	51	67	51	43	17	9	6	54	60	40	14	18	11	18	11	0	0	494
(1)	4.86	10.32	13.56	10.32	8.70	3.44	1.82	1.21	10.93	12.15	8.10	2.83	3.64	2.23	3.64	2.23	.00	.00	100.00
(2)	1.11	2.35	3.09	2.35	1.98	.78	.42	.28	2.49	2.77	1.85	.65	.83	.51	.83	.51	.00	.00	22.79

(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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM JUL00-SEP00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 41.28

SPEED(MPH)	WIND DIRECTION FROM																	TOTAL	
	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	1	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.11
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05
C-3	15	13	13	14	8	12	16	24	16	18	8	14	22	17	19	12	0	241	
(1)	1.68	1.45	1.45	1.56	.89	1.34	1.79	2.68	1.79	2.01	.89	1.56	2.46	1.90	2.12	1.34	.00	26.93	
(2)	.69	.60	.60	.65	.37	.55	.74	1.11	.74	.83	.37	.65	1.01	.78	.88	.55	.00	11.12	
4-7	17	25	7	17	46	42	19	17	75	107	75	67	21	15	11	16	0	577	
(1)	1.90	2.79	.78	1.90	5.14	4.69	2.12	1.90	8.38	11.96	8.38	7.49	2.35	1.68	1.23	1.79	.00	64.47	
(2)	.78	1.15	.32	.78	2.12	1.94	.88	.78	3.46	4.94	3.46	3.09	.97	.69	.51	.74	.00	26.61	
8-12	4	10	0	3	0	3	0	0	14	32	6	0	4	0	0	0	0	76	
(1)	.45	1.12	.00	.34	.00	.34	.00	.00	1.56	3.58	.67	.00	.45	.00	.00	.00	.00	8.49	
(2)	.18	.46	.00	.14	.00	.14	.00	.00	.65	1.48	.28	.00	.18	.00	.00	.00	.00	3.51	
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	36	48	20	34	54	57	35	41	105	157	89	81	47	33	30	28	0	895	
(1)	4.02	5.36	2.23	3.80	6.03	6.37	3.91	4.58	11.73	17.54	9.94	9.05	5.25	3.69	3.35	3.13	.00	100.00	
(2)	1.66	2.21	.92	1.57	2.49	2.63	1.61	1.89	4.84	7.24	4.11	3.74	2.17	1.52	1.38	1.29	.00	41.28	

33.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 16.28

SPEED(MPH)	WIND DIRECTION FROM																	TOTAL
	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	2	1	0	2	0	8	6	22	13	9	13	24	24	4	5	3	0	136
(1)	.57	.28	.00	.57	.00	2.27	1.70	6.23	3.68	2.55	3.68	6.80	6.80	1.13	1.42	.85	.00	38.53
(2)	.09	.05	.00	.09	.00	.37	.28	1.01	.60	.42	.60	1.11	1.11	.18	.23	.14	.00	6.27
4-7	0	0	0	3	0	1	0	6	22	62	66	25	2	5	2	0	0	194
(1)	.00	.00	.00	.85	.00	.28	.00	1.70	6.23	17.56	18.70	7.08	.57	1.42	.57	.00	.00	54.96
(2)	.00	.00	.00	.14	.00	.05	.00	.28	1.01	2.86	3.04	1.15	.09	.23	.09	.00	.00	8.95
8-12	0	0	0	0	0	0	0	0	0	18	5	0	0	0	0	0	0	23
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.10	1.42	.00	.00	.00	.00	.00	.00	6.52
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83	.23	.00	.00	.00	.00	.00	.00	1.06
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	2	1	0	5	0	9	6	28	35	89	84	49	26	9	7	3	0	353
(1)	.57	.28	.00	1.42	.00	2.55	1.70	7.93	9.92	25.21	23.80	13.88	7.37	2.55	1.98	.85	.00	100.00
(2)	.09	.05	.00	.23	.00	.42	.28	1.29	1.61	4.11	3.87	2.26	1.20	.42	.32	.14	.00	16.28

(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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM JUL00-SEP00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G														CLASS FREQUENCY (PERCENT) = 5.67						
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM								W	WNW	NW	NNW	VRBL	TOTAL		
							SE	SSE	S	SSW	SW	WSW	WSW	W							WNW	NW
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	4	8	11	9	3	0	0	0	0	0	0	0	35
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.25	6.50	8.94	7.32	2.44	.00	.00	.00	.00	.00	.00	.00	28.46
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.37	.51	.42	.14	.00	.00	.00	.00	.00	.00	.00	1.61
4-7	0	0	0	1	0	0	0	0	0	0	13	52	6	0	0	0	0	0	0	0	0	72
(1)	.00	.00	.00	.81	.00	.00	.00	.00	.00	.00	10.57	42.28	4.88	.00	.00	.00	.00	.00	.00	.00	.00	58.54
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.60	2.40	.28	.00	.00	.00	.00	.00	.00	.00	.00	3.32
8-12	0	0	0	0	0	0	0	0	0	0	4	12	0	0	0	0	0	0	0	0	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.25	9.76	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.01
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.55	.00	.00	.00	.00	.00	.00	.00	.00	.00	.74
13-18	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
19-24	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
GT 24	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
ALL SPEEDS	0	0	0	1	0	0	0	0	0	4	25	75	15	3	0	0	0	0	0	0	0	123
(1)	.00	.00	.00	.81	.00	.00	.00	.00	.00	3.25	20.33	60.98	12.20	2.44	.00	.00	.00	.00	.00	.00	.00	100.00
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.18	1.15	3.46	.69	.14	.00	.00	.00	.00	.00	.00	.00	5.67

33.0 FT WIND DATA		STABILITY CLASS ALL														CLASS FREQUENCY (PERCENT) = 100.00						
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM								W	WNW	NW	NNW	VRBL	TOTAL		
							SE	SSE	S	SSW	SW	WSW	WSW	W							WNW	NW
CALM	0	0	0	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	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
C-3	25	22	26	29	10	24	25	48	35	36	33	50	51	27	30	23	0	0	0	0	0	494
(1)	1.15	1.01	1.20	1.34	.46	1.11	1.15	2.21	1.61	1.66	1.52	2.31	2.35	1.25	1.38	1.06	.00	.00	.00	.00	.00	22.79
(2)	1.15	1.01	1.20	1.34	.46	1.11	1.15	2.21	1.61	1.66	1.52	2.31	2.35	1.25	1.38	1.06	.00	.00	.00	.00	.00	22.79
4-7	55	90	43	73	96	65	26	29	143	239	252	119	59	37	36	40	0	0	0	0	0	1402
(1)	2.54	4.15	1.98	3.37	4.43	3.00	1.20	1.34	6.60	11.02	11.62	5.49	2.72	1.71	1.66	1.85	.00	.00	.00	.00	.00	64.67
(2)	2.54	4.15	1.98	3.37	4.43	3.00	1.20	1.34	6.60	11.02	11.62	5.49	2.72	1.71	1.66	1.85	.00	.00	.00	.00	.00	64.67
8-12	9	35	43	4	4	9	0	0	43	88	32	0	4	0	0	0	0	0	0	0	0	271
(1)	.42	1.61	1.98	.18	.18	.42	.00	.00	1.98	4.06	1.48	.00	.18	.00	.00	.00	.00	.00	.00	.00	.00	12.50
(2)	.42	1.61	1.98	.18	.18	.42	.00	.00	1.98	4.06	1.48	.00	.18	.00	.00	.00	.00	.00	.00	.00	.00	12.50
13-18	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
19-24	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
GT 24	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
ALL SPEEDS	89	147	112	106	110	98	51	77	221	363	317	169	114	65	66	63	0	0	0	0	0	2168
(1)	4.11	6.78	5.17	4.89	5.07	4.52	2.35	3.55	10.19	16.74	14.62	7.80	5.26	3.00	3.04	2.91	.00	.00	.00	.00	.00	100.00
(2)	4.11	6.78	5.17	4.89	5.07	4.52	2.35	3.55	10.19	16.74	14.62	7.80	5.26	3.00	3.04	2.91	.00	.00	.00	.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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM OCT00-DEC00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 7.16		
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL		
							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	0	0
(1)	.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
C-3	2	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	1.27	1.27	.64	.64	.00	.00	.64	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.09	.09	.05	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	11	10	1	1	0	0	0	0	0	2	7	8	20	20	14	8	0	0	0	0
(1)	7.01	6.37	.64	.64	.00	.00	.00	.00	.00	1.27	4.46	5.10	12.74	12.74	8.92	5.10	.00	.00	.00	.00
(2)	.50	.46	.05	.05	.00	.00	.00	.00	.00	.09	.32	.36	.91	.91	.64	.36	.00	.00	.00	.00
8-12	1	0	0	2	0	0	0	0	0	1	1	6	16	5	8	5	0	0	0	0
(1)	.64	.00	.00	1.27	.00	.00	.00	.00	.00	.64	.64	3.82	10.19	3.18	5.10	3.18	.00	.00	.00	.00
(2)	.05	.00	.00	.09	.00	.00	.00	.00	.00	.05	.05	.27	.73	.23	.36	.23	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.64	1.27	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.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	0
(1)	.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
GT 24	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS 14	12	2	4	0	0	1	0	0	3	8	14	37	27	22	13	0	0	0	0	0
(1)	8.92	7.64	1.27	2.55	.00	.00	.64	.00	.00	1.91	5.10	8.92	23.57	17.20	14.01	8.28	.00	.00	.00	.00
(2)	.64	.55	.09	.18	.00	.00	.05	.00	.00	.14	.36	.64	1.69	1.23	1.00	.59	.00	.00	.00	.00

33.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 3.70		
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL		
							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	0	0
(1)	.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
C-3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	1.23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	5	2	4	2	0	0	1	0	0	2	4	10	5	8	0	3	0	0	0	0
(1)	6.17	2.47	4.94	2.47	.00	.00	1.23	.00	.00	2.47	4.94	12.35	6.17	9.88	.00	3.70	.00	.00	.00	.00
(2)	.23	.09	.18	.09	.00	.00	.05	.00	.00	.09	.18	.46	.23	.36	.00	.14	.00	.00	.00	.00
8-12	0	0	2	0	0	0	0	0	0	1	0	7	10	2	5	2	0	0	0	0
(1)	.00	.00	2.47	.00	.00	.00	.00	.00	.00	1.23	.00	8.64	12.35	2.47	6.17	2.47	.00	.00	.00	.00
(2)	.00	.00	.09	.00	.00	.00	.00	.00	.00	.05	.00	.32	.46	.09	.23	.09	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.47	2.47	1.23	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.09	.05	.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	0
(1)	.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
GT 24	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS 5	2	7	2	0	0	1	0	0	3	4	19	17	11	5	5	0	0	0	0	0
(1)	6.17	2.47	8.64	2.47	.00	.00	1.23	.00	.00	3.70	4.94	23.46	20.99	13.58	6.17	6.17	.00	.00	.00	.00
(2)	.23	.09	.32	.09	.00	.00	.05	.00	.00	.14	.18	.87	.78	.50	.23	.23	.00	.00	.00	.00

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 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-1 (continued)

PILGRIM OCT00-DEC00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 3.10	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	1	0	0	0	0	0	0	1	2	0	1	0	0	0	0	0	0	0	0
(1)	1.47	.00	.00	.00	.00	.00	.00	1.47	2.94	.00	1.47	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.05	.00	.00	.00	.00	.00	.00	.05	.09	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00
4-7	2	0	2	0	0	0	0	2	0	3	4	2	6	4	3	0	2	0	0
(1)	2.94	.00	2.94	.00	.00	.00	.00	2.94	.00	4.41	5.88	2.94	8.82	5.88	4.41	.00	2.94	.00	44.12
(2)	.09	.00	.09	.00	.00	.00	.00	.09	.00	.14	.18	.09	.27	.18	.14	.00	.09	.00	1.37
8-12	0	0	3	0	0	0	0	0	2	0	2	5	7	2	2	4	0	0	27
(1)	.00	.00	4.41	.00	.00	.00	.00	.00	2.94	.00	2.94	7.35	10.29	2.94	2.94	5.88	.00	39.71	
(2)	.00	.00	.14	.00	.00	.00	.00	.00	.09	.00	.09	.23	.32	.09	.09	.18	.00	1.23	
13-18	0	0	0	0	0	0	0	0	0	0	0	1	3	1	1	0	0	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.47	4.41	1.47	1.47	.00	.00	8.82	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.05	.05	.00	.00	.27	
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	0	5	0	0	0	3	2	5	5	4	12	14	6	3	6	0	0	68
(1)	4.41	.00	7.35	.00	.00	.00	4.41	2.94	7.35	7.35	5.88	17.65	20.59	8.82	4.41	8.82	.00	100.00	
(2)	.14	.00	.23	.00	.00	.00	.14	.09	.23	.23	.18	.55	.64	.27	.14	.27	.00	3.10	

33.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 37.50	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	6	2	3	5	3	4	4	1	2	3	1	3	3	3	5	2	0	0	50
(1)	.73	.24	.36	.61	.36	.49	.49	.12	.24	.36	.12	.36	.36	.36	.61	.24	.00	6.08	
(2)	.27	.09	.14	.23	.14	.18	.18	.05	.09	.14	.05	.14	.14	.14	.23	.09	.00	2.28	
4-7	23	18	33	11	27	15	8	7	7	17	16	70	42	31	39	18	0	0	382
(1)	2.80	2.19	4.01	1.34	3.28	1.82	.97	.85	.85	2.07	1.95	8.52	5.11	3.77	4.74	2.19	.00	46.47	
(2)	1.05	.82	1.51	.50	1.23	.68	.36	.32	.32	.78	.73	3.19	1.92	1.41	1.78	.82	.00	17.43	
8-12	31	6	6	3	0	15	0	0	4	16	16	51	89	57	30	7	0	0	331
(1)	3.77	.73	.73	.36	.00	1.82	.00	.00	.49	1.95	1.95	6.20	10.83	6.93	3.65	.85	.00	40.27	
(2)	1.41	.27	.27	.14	.00	.68	.00	.00	.18	.73	.73	2.33	4.06	2.60	1.37	.32	.00	15.10	
13-18	6	2	0	4	1	2	0	3	5	1	6	6	12	6	4	0	0	0	58
(1)	.73	.24	.00	.49	.12	.24	.00	.36	.61	.12	.73	.73	1.46	.73	.49	.00	.00	7.06	
(2)	.27	.09	.00	.18	.05	.09	.00	.14	.23	.05	.27	.27	.55	.27	.18	.00	.00	2.65	
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	66	28	42	23	31	36	12	11	19	37	39	130	146	97	78	27	0	0	822
(1)	8.03	3.41	5.11	2.80	3.77	4.38	1.46	1.34	2.31	4.50	4.74	15.82	17.76	11.80	9.49	3.28	.00	100.00	
(2)	3.01	1.28	1.92	1.05	1.41	1.64	.55	.50	.87	1.69	1.78	5.93	6.66	4.43	3.56	1.23	.00	37.50	

(1) = PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
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 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-1 (continued)

PILGRIM OCT00-DEC00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 36.41				
SPEED(MPH)		WIND DIRECTION FROM																TOTAL				
		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	0	0	1	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
C-3	7	3	5	2	3	5	21	17	22	21	20	15	9	13	8	4	0	0	0	0	175	
(1)	.88	.38	.63	.25	.38	.63	2.63	2.13	2.76	2.63	2.51	1.88	1.13	1.63	1.00	.50	.00	.00	.00	.00	21.93	
(2)	.32	.14	.23	.09	.14	.23	.96	.78	1.00	.96	.91	.68	.41	.59	.36	.18	.00	.00	.00	.00	7.98	
4-7	23	19	5	5	18	13	10	13	20	42	56	123	38	18	25	27	0	0	0	0	455	
(1)	2.88	2.38	.63	.63	2.26	1.63	1.25	1.63	2.51	5.26	7.02	15.41	4.76	2.26	3.13	3.38	.00	.00	.00	.00	57.02	
(2)	1.05	.87	.23	.23	.82	.59	.46	.59	.91	1.92	2.55	5.61	1.73	.82	1.14	1.23	.00	.00	.00	.00	20.76	
8-12	14	12	2	2	3	9	6	9	2	19	7	16	17	11	17	8	0	0	0	0	154	
(1)	1.75	1.50	.25	.25	.38	1.13	.75	1.13	.25	2.38	.88	2.01	2.13	1.38	2.13	1.00	.00	.00	.00	.00	19.30	
(2)	.64	.55	.09	.09	.14	.41	.27	.41	.09	.87	.32	.73	.78	.50	.78	.36	.00	.00	.00	.00	7.03	
13-18	0	0	0	0	1	2	0	5	3	1	0	0	0	0	0	0	0	0	0	0	12	
(1)	.00	.00	.00	.00	.13	.25	.00	.63	.38	.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.50	
(2)	.00	.00	.00	.00	.05	.09	.00	.23	.14	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	
19-24	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
(1)	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	44	34	12	9	26	29	37	44	47	83	83	155	64	42	50	39	0	0	0	0	798	
(1)	5.51	4.26	1.50	1.13	3.26	3.63	4.64	5.51	5.89	10.40	10.40	19.42	8.02	5.26	6.27	4.89	.00	.00	.00	.00	100.00	
(2)	2.01	1.55	.55	.41	1.19	1.32	1.69	2.01	2.14	3.79	3.79	7.07	2.92	1.92	2.28	1.78	.00	.00	.00	.00	36.41	

33.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 9.63			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	0	1	1	0	1	5	2	9	4	14	4	8	7	5	5	0	0	0	0	69
(1)	1.42	.00	.47	.47	.00	.47	2.37	.95	4.27	1.90	6.64	1.90	3.79	3.32	2.37	2.37	.00	.00	.00	.00	32.70
(2)	.14	.00	.05	.05	.00	.05	.23	.09	.41	.18	.64	.18	.36	.32	.23	.23	.00	.00	.00	.00	3.15
4-7	1	1	0	0	0	0	0	3	9	17	36	24	2	5	4	3	0	0	0	0	105
(1)	.47	.47	.00	.00	.00	.00	.00	1.42	4.27	8.06	17.06	11.37	.95	2.37	1.90	1.42	.00	.00	.00	.00	49.76
(2)	.05	.05	.00	.00	.00	.00	.00	.14	.41	.78	1.64	1.09	.09	.23	.18	.14	.00	.00	.00	.00	4.79
8-12	0	0	0	0	0	0	0	0	0	15	20	1	0	0	1	0	0	0	0	0	37
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.11	9.48	.47	.00	.00	.47	.00	.00	.00	.00	.00	17.54
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.68	.91	.05	.00	.00	.05	.00	.00	.00	.00	.00	1.69
13-18	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
(2)	.00	.00	.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	0	0
(1)	.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
GT 24	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	4	1	1	1	0	1	5	5	18	36	70	29	10	12	10	8	0	0	0	0	211
(1)	1.90	.47	.47	.47	.00	.47	2.37	2.37	8.53	17.06	33.18	13.74	4.74	5.69	4.74	3.79	.00	.00	.00	.00	100.00
(2)	.18	.05	.05	.05	.00	.05	.23	.23	.82	1.64	3.19	1.32	.46	.55	.46	.36	.00	.00	.00	.00	9.63

(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 0.95 MPH)

TABLE A-1 (continued)

PILGRIM OCT00-DEC00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 2.51				
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM								W	WNW	NW	NNW	VRBL	TOTAL		
							SE	SSE	S	SSW	SW	WSW	WSW	W								
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	1	1	1	4	6	1	0	0	0	0	0	0	0	14
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.82	1.82	1.82	7.27	10.91	1.82	.00	.00	.00	.00	.00	.00	.00	25.45
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.05	.18	.27	.05	.00	.00	.00	.00	.00	.00	.00	.64
4-7	0	0	0	0	0	0	0	0	0	5	18	5	1	0	0	0	0	0	0	0	0	29
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.09	32.73	9.09	1.82	.00	.00	.00	.00	.00	.00	.00	.00	52.73
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.82	.23	.05	.00	.00	.00	.00	.00	.00	.00	.00	1.32
8-12	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	21.82	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	21.82
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55
13-18	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
19-24	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
GT 24	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
ALL SPEEDS	0	0	0	0	0	0	0	0	1	6	31	9	7	1	0	0	0	0	0	0	0	55
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.82	10.91	56.36	16.36	12.73	1.82	.00	.00	.00	.00	.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.27	1.41	.41	.32	.05	.00	.00	.00	.00	.00	.00	.00	2.51

33.0 FT WIND DATA		STABILITY CLASS ALL																CLASS FREQUENCY (PERCENT) = 100.00				
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM								W	WNW	NW	NNW	VRBL	TOTAL		
							SE	SSE	S	SSW	SW	WSW	WSW	W								
CALM	0	0	0	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	.00	.00	.00	.05	.00	.00	.00	.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	.00	.00	.00	.05
C-3	19	7	11	9	6	10	32	22	34	30	36	26	26	24	18	11	0	0	0	0	0	321
(1)	.87	.32	.50	.41	.27	.46	1.46	1.00	1.55	1.37	1.64	1.19	1.19	1.09	.82	.50	.00	.00	.00	.00	.00	14.64
(2)	.87	.32	.50	.41	.27	.46	1.46	1.00	1.55	1.37	1.64	1.19	1.19	1.09	.82	.50	.00	.00	.00	.00	.00	14.64
4-7	65	50	45	19	45	28	21	23	39	89	139	246	112	85	82	61	0	0	0	0	0	1149
(1)	2.97	2.28	2.05	.87	2.05	1.28	.96	1.05	1.78	4.06	6.34	11.22	5.11	3.88	3.74	2.78	.00	.00	.00	.00	.00	52.42
(2)	2.97	2.28	2.05	.87	2.05	1.28	.96	1.05	1.78	4.06	6.34	11.22	5.11	3.88	3.74	2.78	.00	.00	.00	.00	.00	52.42
8-12	46	18	13	7	3	24	6	9	8	52	58	86	139	77	63	26	0	0	0	0	0	635
(1)	2.10	.82	.59	.32	.14	1.09	.27	.41	.36	2.37	2.65	3.92	6.34	3.51	2.87	1.19	.00	.00	.00	.00	.00	28.97
(2)	2.10	.82	.59	.32	.14	1.09	.27	.41	.36	2.37	2.65	3.92	6.34	3.51	2.87	1.19	.00	.00	.00	.00	.00	28.97
13-18	6	2	0	4	2	4	0	8	8	2	6	9	18	10	5	0	0	0	0	0	0	84
(1)	.27	.09	.00	.18	.09	.18	.00	.36	.36	.09	.27	.41	.82	.46	.23	.00	.00	.00	.00	.00	.00	3.83
(2)	.27	.09	.00	.18	.09	.18	.00	.36	.36	.09	.27	.41	.82	.46	.23	.00	.00	.00	.00	.00	.00	3.83
19-24	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.05	.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	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
ALL SPEEDS	136	77	69	39	57	66	59	62	90	173	239	368	295	196	168	98	0	0	0	0	0	2192
(1)	6.20	3.51	3.15	1.78	2.60	3.01	2.69	2.83	4.11	7.89	10.90	16.79	13.46	8.94	7.66	4.47	.00	.00	.00	.00	.00	100.00
(2)	6.20	3.51	3.15	1.78	2.60	3.01	2.69	2.83	4.11	7.89	10.90	16.79	13.46	8.94	7.66	4.47	.00	.00	.00	.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 0.95 MPH)

Table A-2
Distributions of Wind Directions and Speeds
for the 220-ft Level of the 220-ft Tower

PILGRIM JAN00-MAR00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 24.53	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	2	0	0	2	1	1	1	0	0	0	1	0	1	0	0	9
(1)		.00	.00	.41	.00	.00	.41	.20	.20	.20	.00	.00	.00	.20	.00	.20	.00	.00	1.83
(2)		.00	.00	.10	.00	.00	.10	.05	.05	.05	.00	.00	.00	.05	.00	.05	.00	.00	.45
4-7		7	5	2	1	3	5	2	1	0	0	2	1	3	3	2	5	0	42
(1)		1.42	1.01	.41	.20	.61	1.01	.41	.20	.00	.00	.41	.20	.61	.61	.41	1.01	.00	8.52
(2)		.35	.25	.10	.05	.15	.25	.10	.05	.00	.00	.10	.05	.15	.15	.10	.25	.00	2.09
8-12		2	3	0	8	12	3	7	3	6	3	4	11	11	11	7	4	0	95
(1)		.41	.61	.00	1.62	2.43	.61	1.42	.61	1.22	.61	.81	2.23	2.23	2.23	1.42	.81	.00	19.27
(2)		.10	.15	.00	.40	.60	.15	.35	.15	.30	.15	.20	.55	.55	.55	.35	.20	.00	4.73
13-18		2	18	3	9	11	9	1	1	7	17	7	14	20	15	20	9	0	163
(1)		.41	3.65	.61	1.83	2.23	1.83	.20	.20	1.42	3.45	1.42	2.84	4.06	3.04	4.06	1.83	.00	33.06
(2)		.10	.90	.15	.45	.55	.45	.05	.05	.35	.85	.35	.70	1.00	.75	1.00	.45	.00	8.11
19-24		3	0	1	0	0	4	0	0	6	15	1	0	18	18	12	2	0	80
(1)		.61	.00	.20	.00	.00	.81	.00	.00	1.22	3.04	.20	.00	3.65	3.65	2.43	.41	.00	16.23
(2)		.15	.00	.05	.00	.00	.20	.00	.00	.30	.75	.05	.00	.90	.90	.60	.10	.00	3.98
GT 24		2	1	0	0	2	2	3	0	3	14	5	2	21	21	24	4	0	104
(1)		.41	.20	.00	.00	.41	.41	.61	.00	.61	2.84	1.01	.41	4.26	4.26	4.87	.81	.00	21.10
(2)		.10	.05	.00	.00	.10	.10	.15	.00	.15	.70	.25	.10	1.04	1.04	1.19	.20	.00	5.17
ALL SPEEDS		16	27	8	18	28	25	14	6	23	49	19	28	74	68	66	24	0	493
(1)		3.25	5.48	1.62	3.65	5.68	5.07	2.84	1.22	4.67	9.94	3.85	5.68	15.01	13.79	13.39	4.87	.00	100.00
(2)		.80	1.34	.40	.90	1.39	1.24	.70	.30	1.14	2.44	.95	1.39	3.68	3.38	3.28	1.19	.00	24.53

220.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 1.54	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	1	0	0	1
(1)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.23	.00	.00	3.23
(2)		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05
4-7		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
8-12		0	0	1	1	0	0	0	1	2	0	2	0	0	0	0	0	0	7
(1)		.00	.00	3.23	3.23	.00	.00	.00	3.23	6.45	.00	6.45	.00	.00	.00	.00	.00	.00	22.58
(2)		.00	.00	.05	.05	.00	.00	.00	.05	.10	.00	.10	.00	.00	.00	.00	.00	.00	.35
13-18		0	1	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	5
(1)		.00	3.23	3.23	.00	.00	.00	.00	3.23	.00	3.23	.00	.00	.00	.00	3.23	.00	.00	16.13
(2)		.00	.05	.05	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.05	.00	.00	.25
19-24		0	0	0	0	0	2	0	0	0	2	0	0	1	5	0	1	0	11
(1)		.00	.00	.00	.00	.00	6.45	.00	.00	.00	6.45	.00	.00	3.23	16.13	.00	3.23	.00	35.48
(2)		.00	.00	.00	.00	.00	.10	.00	.00	.00	.10	.00	.00	.05	.25	.00	.05	.00	.55
GT 24		0	0	0	0	1	0	0	0	0	1	2	0	1	1	1	0	0	7
(1)		.00	.00	.00	.00	3.23	.00	.00	.00	.00	3.23	6.45	.00	3.23	3.23	3.23	.00	.00	22.58
(2)		.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.10	.00	.05	.05	.05	.00	.00	.35
ALL SPEEDS		0	1	2	1	1	2	0	2	2	4	4	0	2	6	2	2	0	31
(1)		.00	3.23	6.45	3.23	3.23	6.45	.00	6.45	6.45	12.90	12.90	.00	6.45	19.35	6.45	6.45	.00	100.00
(2)		.00	.05	.10	.05	.05	.10	.00	.10	.10	.20	.20	.00	.10	.30	.10	.10	.00	1.54

(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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM JAN00-MAR00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 2.84				
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL				
							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	0	0		
(1)	.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	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.75	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.75
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	1.75	.00	.00	.00	.00	1.75	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.51
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
8-12	0	0	0	1	0	0	1	0	1	2	2	0	1	0	1	1	1	0	0	0	0	10
(1)	.00	.00	.00	1.75	.00	.00	1.75	.00	1.75	3.51	3.51	.00	1.75	.00	1.75	1.75	1.75	.00	.00	.00	.00	17.54
(2)	.00	.00	.00	.05	.00	.00	.05	.00	.05	.10	.10	.00	.05	.00	.05	.05	.05	.00	.00	.00	.00	.50
13-18	0	2	1	3	0	0	0	0	1	1	2	0	0	1	0	2	0	0	0	0	0	13
(1)	.00	3.51	1.75	5.26	.00	.00	.00	.00	1.75	1.75	3.51	.00	.00	1.75	.00	3.51	.00	3.51	.00	.00	.00	22.81
(2)	.00	.10	.05	.15	.00	.00	.00	.00	.05	.05	.10	.00	.00	.05	.05	.10	.00	.10	.00	.00	.00	.65
19-24	0	0	0	0	0	0	0	0	0	3	2	1	4	7	2	0	0	0	0	0	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.26	3.51	1.75	7.02	12.28	3.51	.00	.00	.00	.00	.00	.00	33.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.10	.05	.20	.35	.10	.00	.00	.00	.00	.00	.00	.95
GT 24	0	0	0	0	0	1	0	0	0	3	0	2	0	3	1	2	0	0	0	0	0	12
(1)	.00	.00	.00	.00	.00	1.75	.00	.00	.00	5.26	.00	3.51	.00	5.26	1.75	3.51	.00	.00	.00	.00	.00	21.05
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.00	.15	.00	.10	.00	.15	.05	.10	.00	.00	.00	.00	.00	.60
ALL SPEEDS	0	2	1	4	0	2	1	0	2	11	6	3	5	11	4	5	0	0	0	0	0	57
(1)	.00	3.51	1.75	7.02	.00	3.51	1.75	.00	3.51	19.30	10.53	5.26	8.77	19.30	7.02	8.77	.00	.00	.00	.00	.00	100.00
(2)	.00	.10	.05	.20	.00	.10	.05	.00	.10	.55	.30	.15	.25	.55	.20	.25	.00	.00	.00	.00	.00	2.84

220.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 21.99					
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL					
							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	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	.00
(2)	.00	.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	1	0	0	0	0	1	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.00	.00	.00	.23	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	
4-7	0	1	0	1	2	0	0	0	0	1	3	3	0	3	0	1	0	0	0	0	0	15	
(1)	.00	.23	.00	.23	.45	.00	.00	.00	.00	.23	.68	.68	.00	.68	.00	.23	.00	.23	.00	.00	.00	3.39	
(2)	.00	.05	.00	.05	.10	.00	.00	.00	.00	.05	.15	.15	.00	.15	.00	.05	.00	.05	.00	.00	.00	.75	
8-12	1	1	2	4	2	0	1	4	4	4	2	1	1	1	2	5	0	0	0	0	0	35	
(1)	.23	.23	.45	.90	.45	.00	.23	.90	.90	.90	.45	.23	.23	.23	.45	1.13	.00	7.92	.00	.00	.00	7.92	
(2)	.05	.05	.10	.20	.10	.00	.05	.20	.20	.20	.10	.05	.05	.05	.10	.25	.00	1.74	.00	.00	.00	1.74	
13-18	0	9	17	10	0	2	7	3	5	9	6	9	7	9	4	8	0	0	0	0	0	105	
(1)	.00	2.04	3.85	2.26	.00	.45	1.58	.68	1.13	2.04	1.36	2.04	1.58	2.04	.90	1.81	.00	23.76	.00	.00	.00	23.76	
(2)	.00	.45	.85	.50	.00	.10	.35	.15	.25	.45	.30	.45	.35	.45	.20	.40	.00	5.22	.00	.00	.00	5.22	
19-24	5	1	10	4	0	1	2	1	4	18	10	5	37	30	16	5	0	0	0	0	0	149	
(1)	1.13	.23	2.26	.90	.00	.23	.45	.23	.90	4.07	2.26	1.13	8.37	6.79	3.62	1.13	.00	33.71	.00	.00	.00	33.71	
(2)	.25	.05	.50	.20	.00	.05	.10	.05	.20	.90	.50	.25	1.84	1.49	.80	.25	.00	7.41	.00	.00	.00	7.41	
GT 24	1	1	1	0	0	0	1	0	1	6	3	0	19	56	45	3	0	0	0	0	0	137	
(1)	.23	.23	.23	.00	.00	.00	.23	.00	.23	1.36	.68	.00	4.30	12.67	10.18	.68	.00	31.00	.00	.00	.00	31.00	
(2)	.05	.05	.05	.00	.00	.00	.05	.00	.05	.30	.15	.00	.95	2.79	2.24	.15	.00	6.82	.00	.00	.00	6.82	
ALL SPEEDS	7	13	30	19	4	3	11	8	14	38	24	18	64	99	67	23	0	0	0	0	0	442	
(1)	1.58	2.94	6.79	4.30	.90	.68	2.49	1.81	3.17	8.60	5.43	4.07	14.48	22.40	15.16	5.20	.00	100.00	.00	.00	.00	100.00	
(2)	.35	.65	1.49	.95	.20	.15	.55	.40	.70	1.89	1.19	.90	3.18	4.93	3.33	1.14	.00	21.99	.00	.00	.00	21.99	

(1) = PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2) = PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-2 (continued)

PILGRIM JAN00-MAR00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS E														CLASS FREQUENCY (PERCENT) = 31.19			
SPEED(MPH)		WIND DIRECTION FROM														VRBL	TOTAL		
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW			NW	NNW
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	2	2	2	1	2	3	2	1	1	0	1	1	2	2	4	0	0	0	26
(1)	.32	.32	.32	.16	.32	.48	.32	.16	.16	.00	.16	.16	.32	.32	.64	.00	.00	.00	4.15
(2)	.10	.10	.10	.05	.10	.15	.10	.05	.05	.00	.05	.05	.10	.10	.20	.00	.00	.00	1.29
8-12	4	5	3	2	1	0	5	5	8	7	1	9	2	7	8	3	0	0	70
(1)	.64	.80	.48	.32	.16	.00	.80	.80	1.28	1.12	.16	1.44	.32	1.12	1.28	.48	.00	.00	11.16
(2)	.20	.25	.15	.10	.05	.00	.25	.25	.40	.35	.05	.45	.10	.35	.40	.15	.00	.00	3.48
13-18	2	7	14	3	1	1	11	10	11	34	27	36	23	17	22	15	0	0	234
(1)	.32	1.12	2.23	.48	.16	.16	1.75	1.59	1.75	5.42	4.31	5.74	3.67	2.71	3.51	2.39	.00	.00	37.32
(2)	.10	.35	.70	.15	.05	.05	.55	.50	.55	1.69	1.34	1.79	1.14	.85	1.09	.75	.00	.00	11.64
19-24	3	1	14	7	2	1	0	2	8	46	34	16	24	9	12	7	0	0	186
(1)	.48	.16	2.23	1.12	.32	.16	.00	.32	1.28	7.34	5.42	2.55	3.83	1.44	1.91	1.12	.00	.00	29.67
(2)	.15	.05	.70	.35	.10	.05	.00	.10	.40	2.29	1.69	.80	1.19	.45	.60	.35	.00	.00	9.25
GT 24	8	4	2	1	2	3	0	0	2	23	6	3	16	27	13	0	0	0	110
(1)	1.28	.64	.32	.16	.32	.48	.00	.00	.32	3.67	.96	.48	2.55	4.31	2.07	.00	.00	.00	17.54
(2)	.40	.20	.10	.05	.10	.15	.00	.00	.10	1.14	.30	.15	.80	1.34	.65	.00	.00	.00	5.47
ALL SPEEDS	19	20	35	14	8	8	18	18	30	110	69	65	67	62	59	25	0	0	627
(1)	3.03	3.19	5.58	2.23	1.28	1.28	2.87	2.87	4.78	17.54	11.00	10.37	10.69	9.89	9.41	3.99	.00	.00	100.00
(2)	.95	1.00	1.74	.70	.40	.40	.90	.90	1.49	5.47	3.43	3.23	3.33	3.08	2.94	1.24	.00	.00	31.19

220.0 FT WIND DATA		STABILITY CLASS F														CLASS FREQUENCY (PERCENT) = 12.99			
SPEED(MPH)		WIND DIRECTION FROM														VRBL	TOTAL		
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW			NW	NNW
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	0	1	0	0	0	0	1	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.38	.00	.00	.00	.00	.38	.00	.00	1.15
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.05	.00	.00	.15
4-7	2	2	0	0	0	0	2	2	0	2	2	4	1	1	1	3	0	0	22
(1)	.77	.77	.00	.00	.00	.00	.77	.77	.00	.77	.77	1.53	.38	.38	.38	1.15	.00	.00	8.43
(2)	.10	.10	.00	.00	.00	.00	.10	.10	.00	.10	.10	.20	.05	.05	.05	.15	.00	.00	1.09
8-12	1	1	0	2	0	2	3	2	4	10	4	4	9	10	5	3	0	0	60
(1)	.38	.38	.00	.77	.00	.77	1.15	.77	1.53	3.83	1.53	1.53	3.45	3.83	1.92	1.15	.00	.00	22.99
(2)	.05	.05	.00	.10	.00	.10	.15	.10	.20	.50	.20	.20	.45	.50	.25	.15	.00	.00	2.99
13-18	3	5	3	1	0	0	5	4	3	10	8	6	10	13	1	6	0	0	78
(1)	1.15	1.92	1.15	.38	.00	.00	1.92	1.53	1.15	3.83	3.07	2.30	3.83	4.98	.38	2.30	.00	.00	29.89
(2)	.15	.25	.15	.05	.00	.00	.25	.20	.15	.50	.40	.30	.50	.65	.05	.30	.00	.00	3.88
19-24	1	1	2	9	0	0	0	1	2	5	9	1	1	0	0	1	0	0	33
(1)	.38	.38	.77	3.45	.00	.00	.00	.38	.77	1.92	3.45	.38	.38	.00	.00	.38	.00	.00	12.64
(2)	.05	.05	.10	.45	.00	.00	.00	.05	.10	.25	.45	.05	.05	.00	.00	.05	.00	.00	1.64
GT 24	16	5	2	1	1	1	2	0	3	6	6	1	0	2	13	6	0	0	65
(1)	6.13	1.92	.77	.38	.38	.38	.77	.00	1.15	2.30	2.30	.38	.00	.77	4.98	2.30	.00	.00	24.90
(2)	.80	.25	.10	.05	.05	.05	.10	.00	.15	.30	.30	.05	.00	.10	.65	.30	.00	.00	3.23
ALL SPEEDS	23	14	7	13	1	3	12	9	13	33	30	16	21	26	20	20	0	0	261
(1)	8.81	5.36	2.68	4.98	.38	1.15	4.60	3.45	4.98	12.64	11.49	6.13	8.05	9.96	7.66	7.66	.00	.00	100.00
(2)	1.14	.70	.35	.65	.05	.15	.60	.45	.65	1.64	1.49	.80	1.04	1.29	1.00	1.00	.00	.00	12.99

(1) = PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2) = PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-2 (continued)

PILGRIM JAN00-MAR00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 4.93			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	0	0	
(1)	.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
C-3	0	1	1	0	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	7
(1)	.00	1.01	1.01	.00	1.01	3.03	.00	.00	.00	.00	.00	.00	.00	1.01	.00	.00	.00	.00	.00	.00	7.07
(2)	.00	.05	.05	.00	.05	.15	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.35
4-7	0	0	0	0	1	2	1	1	2	0	2	0	0	0	0	0	0	0	0	0	9
(1)	.00	.00	.00	.00	1.01	2.02	1.01	1.01	2.02	.00	2.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.09
(2)	.00	.00	.00	.00	.05	.10	.05	.05	.10	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45
8-12	0	1	0	0	0	0	1	2	4	3	1	1	2	2	0	1	0	1	0	0	18
(1)	.00	1.01	.00	.00	.00	.00	1.01	2.02	4.04	3.03	1.01	1.01	2.02	2.02	.00	1.01	.00	1.01	.00	.00	18.18
(2)	.00	.05	.00	.00	.00	.00	.05	.10	.20	.15	.05	.05	.10	.10	.00	.05	.00	.05	.00	.00	.90
13-18	3	4	0	0	0	0	0	0	0	1	0	5	3	1	0	0	0	0	0	0	17
(1)	3.03	4.04	.00	.00	.00	.00	.00	.00	.00	1.01	.00	5.05	3.03	1.01	.00	.00	.00	.00	.00	.00	17.17
(2)	.15	.20	.00	.00	.00	.00	.00	.00	.00	.05	.00	.25	.15	.05	.00	.00	.00	.00	.00	.00	.85
19-24	0	2	0	0	0	0	0	1	1	0	0	0	0	0	1	3	0	0	0	0	8
(1)	.00	2.02	.00	.00	.00	.00	.00	1.01	1.01	.00	.00	.00	.00	.00	1.01	3.03	.00	.00	.00	.00	8.08
(2)	.00	.10	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.05	.15	.00	.00	.00	.00	.40
GT 24	11	2	1	2	1	0	0	0	4	2	1	0	2	1	1	12	0	0	0	0	40
(1)	11.11	2.02	1.01	2.02	1.01	.00	.00	.00	4.04	2.02	1.01	.00	2.02	1.01	1.01	12.12	.00	.00	.00	.00	40.40
(2)	.55	.10	.05	.10	.05	.00	.00	.00	.20	.10	.05	.00	.10	.05	.05	.60	.00	.00	.00	.00	1.99
ALL SPEEDS	14	10	2	2	3	5	2	4	11	6	4	6	7	5	2	16	0	0	0	0	99
(1)	14.14	10.10	2.02	2.02	3.03	5.05	2.02	4.04	11.11	6.06	4.04	6.06	7.07	5.05	2.02	16.16	.00	.00	.00	.00	100.00
(2)	.70	.50	.10	.10	.15	.25	.10	.20	.55	.30	.20	.30	.35	.25	.10	.80	.00	.00	.00	.00	4.93

220.0 FT WIND DATA		STABILITY CLASS ALL																CLASS FREQUENCY (PERCENT) = 100.00			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	2	3	0	1	5	1	1	2	1	1	0	1	1	2	2	0	0	0	0	23
(1)	.00	.10	.15	.00	.05	.25	.05	.05	.10	.05	.05	.00	.05	.05	.10	.10	.00	.00	.00	.00	1.14
(2)	.00	.10	.15	.00	.05	.25	.05	.05	.10	.05	.05	.00	.05	.05	.10	.10	.00	.00	.00	.00	1.14
4-7	11	10	4	3	8	11	7	5	3	4	10	9	6	9	7	9	0	0	0	0	116
(1)	.55	.50	.20	.15	.40	.55	.35	.25	.15	.20	.50	.45	.30	.45	.35	.45	.00	.00	.00	.00	5.77
(2)	.55	.50	.20	.15	.40	.55	.35	.25	.15	.20	.50	.45	.30	.45	.35	.45	.00	.00	.00	.00	5.77
8-12	8	11	6	18	15	5	18	17	29	29	16	26	26	31	23	17	0	0	0	0	295
(1)	.40	.55	.30	.90	.75	.25	.90	.85	1.44	1.44	.80	1.29	1.29	1.54	1.14	.85	.00	.00	.00	.00	14.68
(2)	.40	.55	.30	.90	.75	.25	.90	.85	1.44	1.44	.80	1.29	1.29	1.54	1.14	.85	.00	.00	.00	.00	14.68
13-18	10	46	39	26	12	12	24	19	27	73	50	70	63	56	47	41	0	0	0	0	615
(1)	.50	2.29	1.94	1.29	.60	.60	1.19	.95	1.34	3.63	2.49	3.48	3.13	2.79	2.34	2.04	.00	.00	.00	.00	30.60
(2)	.50	2.29	1.94	1.29	.60	.60	1.19	.95	1.34	3.63	2.49	3.48	3.13	2.79	2.34	2.04	.00	.00	.00	.00	30.60
19-24	12	5	27	20	2	8	2	5	21	89	56	23	85	69	43	19	0	0	0	0	486
(1)	.60	.25	1.34	1.00	.10	.40	.10	.25	1.04	4.43	2.79	1.14	4.23	3.43	2.14	.95	.00	.00	.00	.00	24.18
(2)	.60	.25	1.34	1.00	.10	.40	.10	.25	1.04	4.43	2.79	1.14	4.23	3.43	2.14	.95	.00	.00	.00	.00	24.18
GT 24	38	13	6	4	7	7	6	0	13	55	23	8	59	111	98	27	0	0	0	0	475
(1)	1.89	.65	.30	.20	.35	.35	.30	.00	.65	2.74	1.14	.40	2.94	5.52	4.88	1.34	.00	.00	.00	.00	23.63
(2)	1.89	.65	.30	.20	.35	.35	.30	.00	.65	2.74	1.14	.40	2.94	5.52	4.88	1.34	.00	.00	.00	.00	23.63
ALL SPEEDS	79	87	85	71	45	48	58	47	95	251	156	136	240	277	220	115	0	0	0	0	2010
(1)	3.93	4.33	4.23	3.53	2.24	2.39	2.89	2.34	4.73	12.49	7.76	6.77	11.94	13.78	10.95	5.72	.00	.00	.00	.00	100.00
(2)	3.93	4.33	4.23	3.53	2.24	2.39	2.89	2.34	4.73	12.49	7.76	6.77	11.94	13.78	10.95	5.72	.00	.00	.00	.00	100.00

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 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-2 (continued)

PILGRIM APR00-JUN00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 15.77				
SPEED(MPH)		WIND DIRECTION FROM																TOTAL				
		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	0	0		
(1)	.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	
C-3	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	3	11	2	6	3	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	27	
(1)	1.04	3.82	.69	2.08	1.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35	.00	.35	.00	.00	.00	9.38	
(2)	.16	.60	.11	.33	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	1.48	
8-12	19	17	6	8	18	8	3	1	3	2	3	2	5	6	0	4	0	4	0	0	105	
(1)	6.60	5.90	2.08	2.78	6.25	2.78	1.04	.35	1.04	.69	1.04	.69	1.74	2.08	.00	1.39	.00	1.39	.00	.00	36.46	
(2)	1.04	.93	.33	.44	.99	.44	.16	.05	.16	.11	.16	.11	.27	.33	.00	.22	.00	.22	.00	.00	5.75	
13-18	7	10	15	3	0	7	1	3	6	22	8	0	3	4	2	4	0	4	0	0	95	
(1)	2.43	3.47	5.21	1.04	.00	2.43	.35	1.04	2.08	7.64	2.78	.00	1.04	1.39	.69	1.39	.00	1.39	.00	.00	32.99	
(2)	.38	.55	.82	.16	.00	.38	.05	.16	.33	1.20	.44	.00	.16	.22	.11	.22	.00	.22	.00	.00	5.20	
19-24	1	4	4	1	0	1	0	0	6	16	1	0	6	5	1	5	0	5	0	0	51	
(1)	.35	1.39	1.39	.35	.00	.35	.00	.00	2.08	5.56	.35	.00	2.08	1.74	.35	1.74	.00	1.74	.00	.00	17.71	
(2)	.05	.22	.22	.05	.00	.05	.00	.00	.33	.88	.05	.00	.33	.27	.05	.27	.00	.27	.00	.00	2.79	
GT 24	0	0	3	0	0	0	0	0	0	2	0	0	0	1	1	3	0	0	0	0	10	
(1)	.00	.00	1.04	.00	.00	.00	.00	.00	.00	.69	.00	.00	.00	.35	.35	1.04	.00	.00	.00	.00	3.47	
(2)	.00	.00	.16	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.05	.05	.16	.00	.00	.00	.00	.55	
ALL SPEEDS	30	42	30	18	21	16	4	4	15	42	12	2	14	17	4	17	0	17	0	0	288	
(1)	10.42	14.58	10.42	6.25	7.29	5.56	1.39	1.39	5.21	14.58	4.17	.69	4.86	5.90	1.39	5.90	.00	5.90	.00	.00	100.00	
(2)	1.64	2.30	1.64	.99	1.15	.88	.22	.22	.82	2.30	.66	.11	.77	.93	.22	.93	.00	.93	.00	.00	15.77	

220.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 3.67			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	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
(2)	.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
(1)	.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
4-7	3	2	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	9
(1)	4.48	2.99	.00	1.49	.00	.00	.00	.00	.00	1.49	1.49	.00	.00	.00	.00	1.49	.00	.00	1.49	.00	13.43
(2)	.16	.11	.00	.05	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.05	.00	.00	.05	.00	.49
8-12	0	0	1	1	2	1	1	1	0	1	2	0	0	1	0	0	0	0	0	0	11
(1)	.00	.00	1.49	1.49	2.99	1.49	1.49	1.49	.00	1.49	2.99	.00	.00	1.49	.00	.00	.00	.00	.00	.00	16.42
(2)	.00	.00	.05	.05	.11	.05	.05	.05	.00	.05	.11	.00	.00	.05	.00	.00	.00	.00	.00	.00	.60
13-18	1	1	1	1	1	1	3	0	5	9	7	4	2	1	0	0	0	0	0	0	37
(1)	1.49	1.49	1.49	1.49	1.49	1.49	4.48	.00	7.46	13.43	10.45	5.97	2.99	1.49	.00	.00	.00	.00	.00	.00	55.22
(2)	.05	.05	.05	.05	.05	.05	.16	.00	.27	.49	.38	.22	.11	.05	.00	.00	.00	.00	.00	.00	2.03
19-24	0	1	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	8
(1)	.00	1.49	.00	.00	.00	.00	.00	.00	.00	10.45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.94
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.38	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.44
GT 24	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	1.49	.00	.00	.00	.00	.00	.00	1.49	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.99
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
ALL SPEEDS	4	4	3	3	3	2	4	1	5	19	10	4	2	2	0	1	0	1	0	0	67
(1)	5.97	5.97	4.48	4.48	4.48	2.99	5.97	1.49	7.46	28.36	14.93	5.97	2.99	2.99	.00	1.49	.00	1.49	.00	.00	100.00
(2)	.22	.22	.16	.16	.16	.11	.22	.05	.27	1.04	.55	.22	.11	.11	.00	.05	.00	.05	.00	.00	3.67

(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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM APR00-JUN00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 5.53	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	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
4-7	1	3	1	2	2	1	1	0	0	0	1	0	1	2	4	1	0	0	20
(1)	.99	2.97	.99	1.98	1.98	.99	.99	.00	.00	.00	.99	.00	.99	1.98	3.96	.99	.00	.00	19.80
(2)	.05	.16	.05	.11	.11	.05	.05	.00	.00	.00	.05	.00	.05	.11	.22	.05	.00	.00	1.10
8-12	0	0	4	1	4	5	2	3	2	1	4	1	0	1	0	0	0	0	28
(1)	.00	.00	3.96	.99	3.96	4.95	1.98	2.97	1.98	.99	3.96	.99	.00	.99	.00	.00	.00	.00	27.72
(2)	.00	.00	.22	.05	.22	.27	.11	.16	.11	.05	.22	.05	.00	.05	.00	.00	.00	.00	1.53
13-18	0	2	1	3	0	0	1	1	5	10	3	1	1	1	1	1	0	0	31
(1)	.00	1.98	.99	2.97	.00	.00	.99	.99	4.95	9.90	2.97	.99	.99	.99	.99	.99	.00	.00	30.69
(2)	.00	.11	.05	.16	.00	.00	.05	.05	.27	.55	.16	.05	.05	.05	.05	.05	.00	.00	1.70
19-24	0	0	1	0	0	0	0	0	0	4	2	0	0	1	0	0	0	0	8
(1)	.00	.00	.99	.00	.00	.00	.00	.00	.00	3.96	1.98	.00	.00	.99	.00	.00	.00	.00	7.92
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.22	.11	.00	.00	.05	.00	.00	.00	.00	.44
GT 24	0	0	5	1	0	0	0	0	0	4	0	0	1	1	0	2	0	0	14
(1)	.00	.00	4.95	.99	.00	.00	.00	.00	.00	3.96	.00	.00	.99	.99	.00	1.98	.00	.00	13.86
(2)	.00	.00	.27	.05	.00	.00	.00	.00	.00	.22	.00	.00	.05	.05	.00	.11	.00	.00	.77
ALL SPEEDS	1	5	12	7	6	6	4	4	7	19	10	2	3	6	5	4	0	0	101
(1)	.99	4.95	11.88	6.93	5.94	5.94	3.96	3.96	6.93	18.81	9.90	1.98	2.97	5.94	4.95	3.96	.00	.00	100.00
(2)	.05	.27	.66	.38	.33	.33	.22	.22	.38	1.04	.55	.11	.16	.33	.27	.22	.00	.00	5.53

220.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 27.00	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	0	0	2	1	1	0	0	0	1	0	0	1	0	0	0	11
(1)	.41	.20	.41	.00	.00	.41	.20	.20	.00	.00	.00	.20	.00	.00	.20	.00	.00	.00	2.23
(2)	.11	.05	.11	.00	.00	.11	.05	.05	.00	.00	.00	.05	.00	.00	.05	.00	.00	.00	.60
4-7	5	8	5	3	19	9	8	4	5	0	1	2	2	0	4	3	0	0	78
(1)	1.01	1.62	1.01	.61	3.85	1.83	1.62	.81	1.01	.00	.20	.41	.41	.00	.81	.61	.00	.00	15.82
(2)	.27	.44	.27	.16	1.04	.49	.44	.22	.27	.00	.05	.11	.11	.00	.22	.16	.00	.00	4.27
8-12	5	8	13	7	10	15	7	6	6	10	3	5	3	4	3	6	0	0	111
(1)	1.01	1.62	2.64	1.42	2.03	3.04	1.42	1.22	1.22	2.03	.61	1.01	.61	.81	.61	1.22	.00	.00	22.52
(2)	.27	.44	.71	.38	.55	.82	.38	.33	.33	.55	.16	.27	.16	.22	.16	.33	.00	.00	6.08
13-18	7	10	19	18	14	4	3	4	9	28	10	3	7	0	0	4	0	0	140
(1)	1.42	2.03	3.85	3.65	2.84	.81	.61	.81	1.83	5.68	2.03	.61	1.42	.00	.00	.81	.00	.00	28.40
(2)	.38	.55	1.04	.99	.77	.22	.16	.22	.49	1.53	.55	.16	.38	.00	.00	.22	.00	.00	7.67
19-24	1	7	4	7	10	0	2	0	0	42	3	0	4	1	1	4	0	0	86
(1)	.20	1.42	.81	1.42	2.03	.00	.41	.00	.00	8.52	.61	.00	.81	.20	.20	.81	.00	.00	17.44
(2)	.05	.38	.22	.38	.55	.00	.11	.00	.00	2.30	.16	.00	.22	.05	.05	.22	.00	.00	4.71
GT 24	4	12	9	6	10	0	0	0	0	12	0	0	3	2	5	4	0	0	67
(1)	.81	2.43	1.83	1.22	2.03	.00	.00	.00	.00	2.43	.00	.00	.61	.41	1.01	.81	.00	.00	13.59
(2)	.22	.66	.49	.33	.55	.00	.00	.00	.00	.66	.00	.00	.16	.11	.27	.22	.00	.00	3.67
ALL SPEEDS	24	46	52	41	63	30	21	15	20	92	17	11	19	7	14	21	0	0	493
(1)	4.87	9.33	10.55	8.32	12.78	6.09	4.26	3.04	4.06	18.66	3.45	2.23	3.85	1.42	2.84	4.26	.00	.00	100.00
(2)	1.31	2.52	2.85	2.25	3.45	1.64	1.15	.82	1.10	5.04	.93	.60	1.04	.38	.77	1.15	.00	.00	27.00

(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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM APR00-JUN00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 34.56			
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL			
							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	0	0	
(1)	.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
C-3	3	1	3	1	4	1	0	1	4	1	0	0	0	0	1	1	0	0	0	0	21
(1)	.48	.16	.48	.16	.63	.16	.00	.16	.63	.16	.00	.00	.00	.00	.16	.16	.00	.00	.00	.00	3.33
(2)	.16	.05	.16	.05	.22	.05	.00	.05	.22	.05	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	1.15
4-7	5	9	3	10	9	9	9	5	1	3	3	1	0	0	2	7	0	0	0	0	76
(1)	.79	1.43	.48	1.58	1.43	1.43	1.43	.79	.16	.48	.48	.16	.00	.00	.32	1.11	.00	.00	.00	.00	12.04
(2)	.27	.49	.16	.55	.49	.49	.49	.27	.05	.16	.16	.05	.00	.00	.11	.38	.00	.00	.00	.00	4.16
8-12	8	9	5	4	8	11	5	7	5	11	7	3	11	4	5	11	0	0	0	0	114
(1)	1.27	1.43	.79	.63	1.27	1.74	.79	1.11	.79	1.74	1.11	.48	1.74	.63	.79	1.74	.00	.00	.00	.00	18.07
(2)	.44	.49	.27	.22	.44	.60	.27	.38	.27	.60	.38	.16	.60	.22	.27	.60	.00	.00	.00	.00	6.24
13-18	9	3	4	5	0	10	10	4	11	55	22	16	31	10	6	4	0	0	0	0	200
(1)	1.43	.48	.63	.79	.00	1.58	1.58	.63	1.74	8.72	3.49	2.54	4.91	1.58	.95	.63	.00	.00	.00	.00	31.70
(2)	.49	.16	.22	.27	.00	.55	.55	.22	.60	3.01	1.20	.88	1.70	.55	.33	.22	.00	.00	.00	.00	10.95
19-24	11	14	2	3	1	3	5	1	1	58	18	8	11	6	5	7	0	0	0	0	154
(1)	1.74	2.22	.32	.48	.16	.48	.79	.16	.16	9.19	2.85	1.27	1.74	.95	.79	1.11	.00	.00	.00	.00	24.41
(2)	.60	.77	.11	.16	.05	.16	.27	.05	.05	3.18	.99	.44	.60	.33	.27	.38	.00	.00	.00	.00	8.43
GT 24	12	12	10	1	10	0	1	1	0	6	3	0	3	0	2	5	0	0	0	0	66
(1)	1.90	1.90	1.58	.16	1.58	.00	.16	.16	.00	.95	.48	.00	.48	.00	.32	.79	.00	.00	.00	.00	10.46
(2)	.66	.66	.55	.05	.55	.00	.05	.05	.00	.33	.16	.00	.16	.00	.11	.27	.00	.00	.00	.00	3.61
ALL SPEEDS	48	48	27	24	32	34	30	19	22	134	53	28	56	20	21	35	0	0	0	0	631
(1)	7.61	7.61	4.28	3.80	5.07	5.39	4.75	3.01	3.49	21.24	8.40	4.44	8.87	3.17	3.33	5.55	.00	.00	.00	.00	100.00
(2)	2.63	2.63	1.48	1.31	1.75	1.86	1.64	1.04	1.20	7.34	2.90	1.53	3.07	1.10	1.15	1.92	.00	.00	.00	.00	34.56

220.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 9.09			
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL			
							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	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	2	1	1	2	1	0	1	0	0	1	1	0	3	0	0	0	0	0	0	0	13
(1)	1.20	.60	.60	1.20	.60	.00	.60	.00	.00	.60	.60	.00	1.81	.00	.00	.00	.00	.00	.00	.00	7.83
(2)	.11	.05	.05	.11	.05	.00	.05	.00	.00	.05	.05	.00	.16	.00	.00	.00	.00	.00	.00	.00	.71
4-7	1	5	0	4	0	2	1	0	1	1	1	1	1	4	1	3	0	0	0	0	26
(1)	.60	3.01	.00	2.41	.00	1.20	.60	.00	.60	.60	.60	.60	.60	2.41	.60	1.81	.00	.00	.00	.00	15.66
(2)	.05	.27	.00	.22	.00	.11	.05	.00	.05	.05	.05	.05	.05	.22	.05	.16	.00	.00	.00	.00	1.42
8-12	2	1	2	1	1	1	2	2	3	2	1	1	6	5	2	1	0	0	0	0	33
(1)	1.20	.60	1.20	.60	.60	.60	1.20	1.20	1.81	1.20	.60	.60	3.61	3.01	1.20	.60	.00	.00	.00	.00	19.88
(2)	.11	.05	.11	.05	.05	.05	.11	.11	.16	.11	.05	.05	.33	.27	.11	.05	.00	.00	.00	.00	1.81
13-18	1	1	0	0	1	5	0	4	4	4	10	8	7	9	4	0	0	0	0	0	58
(1)	.60	.60	.00	.00	.60	3.01	.00	2.41	2.41	2.41	6.02	4.82	4.22	5.42	2.41	.00	.00	.00	.00	.00	34.94
(2)	.05	.05	.00	.00	.05	.27	.00	.22	.22	.22	.55	.44	.38	.49	.22	.00	.00	.00	.00	.00	3.18
19-24	1	1	0	0	0	0	0	0	0	8	15	4	3	0	0	3	0	0	0	0	35
(1)	.60	.60	.00	.00	.00	.00	.00	.00	.00	4.82	9.04	2.41	1.81	.00	.00	1.81	.00	.00	.00	.00	21.08
(2)	.05	.05	.00	.00	.00	.00	.00	.00	.00	.44	.82	.22	.16	.00	.00	.16	.00	.00	.00	.00	1.92
GT 24	0	0	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	.00	.00	.60	.00	.00	.00	.00	.00	.00	.60
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05
ALL SPEEDS	7	9	3	7	3	8	4	6	8	16	28	14	20	19	7	7	0	0	0	0	166
(1)	4.22	5.42	1.81	4.22	1.81	4.82	2.41	3.61	4.82	9.64	16.87	8.43	12.05	11.45	4.22	4.22	.00	.00	.00	.00	100.00
(2)	.38	.49	.16	.38	.16	.44	.22	.33	.44	.88	1.53	.77	1.10	1.04	.38	.38	.00	.00	.00	.00	9.09

(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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM APR00-JUN00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 4.38	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	0	0	1	1	0	2	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	1.25	.00	.00	1.25	1.25	.00	2.50	.00	.00	.00	.00	.00	.00	6.25
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.05	.05	.00	.11	.00	.00	.00	.00	.00	.00	.27
4-7	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.25	.00	.00	.00	1.25	2.50	.00	.00	.00	.00	5.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.11	.00	.00	.00	.00	.22
8-12	0	0	0	0	0	0	0	1	0	1	2	6	5	1	0	0	0	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	1.25	.00	1.25	2.50	7.50	6.25	1.25	.00	.00	.00	.00	20.00
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.11	.33	.27	.05	.00	.00	.00	.00	.88
13-18	0	0	0	0	0	0	0	1	6	4	6	4	8	2	1	0	0	0	32
(1)	.00	.00	.00	.00	.00	.00	.00	1.25	7.50	5.00	7.50	5.00	10.00	2.50	1.25	.00	.00	.00	40.00
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.33	.22	.33	.22	.44	.11	.05	.00	.00	.00	1.75
19-24	0	0	0	0	0	0	0	0	2	9	5	3	3	0	0	0	0	0	22
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.50	11.25	6.25	3.75	3.75	.00	.00	.00	.00	.00	27.50
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.11	.49	.27	.16	.16	.00	.00	.00	.00	.00	1.20
GT 24	0	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	.00	1.25	.00	.00	.00	.00	.00	.00	.00	1.25
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05
ALL SPEEDS	0	0	0	0	0	1	0	2	10	15	14	15	17	5	1	0	0	0	80
(1)	.00	.00	.00	.00	.00	1.25	.00	2.50	12.50	18.75	17.50	18.75	21.25	6.25	1.25	.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.00	.05	.00	.11	.55	.82	.77	.82	.93	.27	.05	.00	.00	.00	4.38

220.0 FT WIND DATA		STABILITY CLASS ALL																CLASS FREQUENCY (PERCENT) = 100.00	
SPEED(MPH)		WIND DIRECTION FROM																TOTAL	
		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	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	7	3	6	3	5	4	2	2	5	3	1	3	3	0	2	1	0	0	50
(1)	.38	.16	.33	.16	.27	.22	.11	.11	.27	.16	.05	.16	.16	.00	.11	.05	.00	.00	2.74
(2)	.38	.16	.33	.16	.27	.22	.11	.11	.27	.16	.05	.16	.16	.00	.11	.05	.00	.00	2.74
4-7	18	38	11	26	33	21	19	9	8	5	7	4	5	9	11	16	0	0	240
(1)	.99	2.08	.60	1.42	1.81	1.15	1.04	.49	.44	.27	.38	.22	.27	.49	.60	.88	.00	.00	13.14
(2)	.99	2.08	.60	1.42	1.81	1.15	1.04	.49	.44	.27	.38	.22	.27	.49	.60	.88	.00	.00	13.14
8-12	34	35	31	22	43	41	20	21	19	28	22	18	30	22	10	22	0	0	418
(1)	1.86	1.92	1.70	1.20	2.35	2.25	1.10	1.15	1.04	1.53	1.20	.99	1.64	1.20	.55	1.20	.00	.00	22.89
(2)	1.86	1.92	1.70	1.20	2.35	2.25	1.10	1.15	1.04	1.53	1.20	.99	1.64	1.20	.55	1.20	.00	.00	22.89
13-18	25	27	40	30	16	27	18	17	46	132	66	36	59	27	14	13	0	0	593
(1)	1.37	1.48	2.19	1.64	.88	1.48	.99	.93	2.52	7.23	3.61	1.97	3.23	1.48	.77	.71	.00	.00	32.48
(2)	1.37	1.48	2.19	1.64	.88	1.48	.99	.93	2.52	7.23	3.61	1.97	3.23	1.48	.77	.71	.00	.00	32.48
19-24	14	27	11	11	11	4	7	1	9	144	44	15	27	13	7	19	0	0	364
(1)	.77	1.48	.60	.60	.60	.22	.38	.05	.49	7.89	2.41	.82	1.48	.71	.38	1.04	.00	.00	19.93
(2)	.77	1.48	.60	.60	.60	.22	.38	.05	.49	7.89	2.41	.82	1.48	.71	.38	1.04	.00	.00	19.93
GT 24	16	24	28	8	20	0	1	1	0	25	4	0	7	5	8	14	0	0	161
(1)	.88	1.31	1.53	.44	1.10	.00	.05	.05	.00	1.37	.22	.00	.38	.27	.44	.77	.00	.00	8.82
(2)	.88	1.31	1.53	.44	1.10	.00	.05	.05	.00	1.37	.22	.00	.38	.27	.44	.77	.00	.00	8.82
ALL SPEEDS	114	154	127	100	128	97	67	51	87	337	144	76	131	76	52	85	0	0	1826
(1)	6.24	8.43	6.96	5.48	7.01	5.31	3.67	2.79	4.76	18.46	7.89	4.16	7.17	4.16	2.85	4.65	.00	.00	100.00
(2)	6.24	8.43	6.96	5.48	7.01	5.31	3.67	2.79	4.76	18.46	7.89	4.16	7.17	4.16	2.85	4.65	.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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM JUL00-SEP00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 7.50			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	0	0	
(1)	.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
C-3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	2	2	2	1	1	0	1	0	0	0	2	1	2	1	0	0	0	0	0	0	15
(1)	1.31	1.31	1.31	.65	.65	.00	.65	.00	.00	.00	1.31	.65	1.31	.65	.00	.00	.00	.00	.00	.00	9.80
(2)	.10	.10	.10	.05	.05	.00	.05	.00	.00	.00	.10	.05	.10	.05	.00	.00	.00	.00	.00	.00	.74
8-12	11	13	2	0	9	1	0	0	1	6	6	2	4	5	0	3	0	0	0	0	63
(1)	7.19	8.50	1.31	.00	5.88	.65	.00	.00	.65	3.92	3.92	1.31	2.61	3.27	.00	1.96	.00	.00	.00	.00	41.18
(2)	.54	.64	.10	.00	.44	.05	.00	.00	.05	.29	.29	.10	.20	.25	.00	.15	.00	.00	.00	.00	3.09
13-18	5	2	1	0	0	2	1	0	8	5	6	1	2	1	4	13	0	0	0	0	51
(1)	3.27	1.31	.65	.00	.00	1.31	.65	.00	5.23	3.27	3.92	.65	1.31	.65	2.61	8.50	.00	.00	.00	.00	33.33
(2)	.25	.10	.05	.00	.00	.10	.05	.00	.39	.25	.29	.05	.10	.05	.20	.64	.00	.00	.00	.00	2.50
19-24	5	2	6	0	0	4	1	0	1	1	1	0	0	0	0	2	0	0	0	0	23
(1)	3.27	1.31	3.92	.00	.00	2.61	.65	.00	.65	.65	.65	.00	.00	.00	.00	1.31	.00	.00	.00	.00	15.03
(2)	.25	.10	.29	.00	.00	.20	.05	.00	.05	.05	.05	.00	.00	.00	.00	.10	.00	.00	.00	.00	1.13
GT 24	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS 23	19	12	1	10	7	3	0	10	12	15	4	8	7	4	18	0	0	0	0	0	153
(1)	15.03	12.42	7.84	.65	6.54	4.58	1.96	.00	6.54	7.84	9.80	2.61	5.23	4.58	2.61	11.76	.00	.00	.00	.00	100.00
(2)	1.13	.93	.59	.05	.49	.34	.15	.00	.49	.59	.74	.20	.39	.34	.20	.88	.00	.00	.00	.00	7.50

220.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 3.48			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	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
(2)	.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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	1.41	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.41
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	2	3	2	2	1	1	0	0	0	0	0	0	0	4	3	5	0	0	0	0	23
(1)	2.82	4.23	2.82	2.82	1.41	1.41	.00	.00	.00	.00	.00	.00	.00	5.63	4.23	7.04	.00	.00	.00	.00	32.39
(2)	.10	.15	.10	.10	.05	.05	.00	.00	.00	.00	.00	.00	.00	.20	.15	.25	.00	.00	.00	.00	1.13
8-12	3	6	0	0	1	0	1	0	2	2	1	0	4	7	2	0	0	0	0	0	29
(1)	4.23	8.45	.00	.00	1.41	.00	1.41	.00	2.82	2.82	1.41	.00	5.63	9.86	2.82	.00	.00	.00	.00	.00	40.85
(2)	.15	.29	.00	.00	.05	.00	.05	.00	.10	.10	.05	.00	.20	.34	.10	.00	.00	.00	.00	.00	1.42
13-18	0	1	0	0	0	0	0	0	5	3	2	1	1	0	0	0	0	0	0	0	13
(1)	.00	1.41	.00	.00	.00	.00	.00	.00	7.04	4.23	2.82	1.41	1.41	.00	.00	.00	.00	.00	.00	.00	18.31
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.25	.15	.10	.05	.05	.00	.00	.00	.00	.00	.00	.00	.64
19-24	0	1	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	5
(1)	.00	1.41	2.82	.00	.00	.00	.00	.00	1.41	.00	1.41	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.04
(2)	.00	.05	.10	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
GT 24	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS 5	11	4	2	2	2	2	1	0	8	5	4	1	5	11	5	5	0	0	0	0	71
(1)	7.04	15.49	5.63	2.82	2.82	2.82	1.41	.00	11.27	7.04	5.63	1.41	7.04	15.49	7.04	7.04	.00	.00	.00	.00	100.00
(2)	.25	.54	.20	.10	.10	.10	.05	.00	.39	.25	.20	.05	.25	.54	.25	.25	.25	.00	.00	.00	3.48

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 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-2 (continued)

PILGRIM JUL00-SEP00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C														CLASS FREQUENCY (PERCENT) = 3.73						
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM								WSW	W	WNW	NW	NNW	VRBL	TOTAL	
							SE	SSE	S	SSW	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	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	2	2	3	1	2	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	13
(1)	2.63	2.63	3.95	1.32	2.63	.00	.00	.00	.00	.00	2.63	.00	.00	.00	1.32	.00	.00	1.32	.00	.00	.00	17.11
(2)	.10	.10	.15	.05	.10	.00	.00	.00	.00	.00	.10	.00	.00	.00	.05	.00	.00	.05	.00	.00	.00	.64
8-12	2	2	0	1	3	6	2	1	3	1	0	4	4	2	1	1	0	0	0	0	0	33
(1)	2.63	2.63	.00	1.32	3.95	7.89	2.63	1.32	3.95	1.32	.00	5.26	5.26	2.63	1.32	1.32	.00	.00	.00	.00	.00	43.42
(2)	.10	.10	.00	.05	.15	.29	.10	.05	.15	.05	.00	.20	.20	.10	.05	.05	.00	.00	.00	.00	.00	1.62
13-18	0	1	0	0	0	3	1	0	3	5	5	1	1	0	1	0	0	0	0	0	0	21
(1)	.00	1.32	.00	.00	.00	3.95	1.32	.00	3.95	6.58	6.58	1.32	1.32	.00	1.32	.00	.00	.00	.00	.00	.00	27.63
(2)	.00	.05	.00	.00	.00	.15	.05	.00	.15	.25	.25	.05	.05	.00	.05	.00	.00	.00	.00	.00	.00	1.03
19-24	2	0	2	0	0	0	0	0	1	1	2	0	1	0	0	0	0	0	0	0	0	9
(1)	2.63	.00	2.63	.00	.00	.00	.00	.00	1.32	1.32	2.63	.00	1.32	.00	.00	.00	.00	.00	.00	.00	.00	11.84
(2)	.10	.00	.10	.00	.00	.00	.00	.00	.05	.05	.10	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.44
GT 24	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
ALL SPEEDS	6	5	5	2	5	9	3	1	7	7	9	5	6	2	3	1	0	0	0	0	0	76
(1)	7.89	6.58	6.58	2.63	6.58	11.84	3.95	1.32	9.21	9.21	11.84	6.58	7.89	2.63	3.95	1.32	.00	.00	.00	.00	.00	100.00
(2)	.29	.25	.25	.10	.25	.44	.15	.05	.34	.34	.44	.25	.29	.10	.15	.05	.00	.00	.00	.00	.00	3.73

220.0 FT WIND DATA		STABILITY CLASS D														CLASS FREQUENCY (PERCENT) = 22.75						
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM								WSW	W	WNW	NW	NNW	VRBL	TOTAL	
							SE	SSE	S	SSW	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	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	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	4
(1)	.00	.00	.00	.22	.22	.00	.00	.00	.22	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	.00	.86
(2)	.00	.00	.00	.05	.05	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.20
4-7	9	6	9	8	13	6	4	2	1	0	1	2	5	1	2	6	0	0	0	0	0	75
(1)	1.94	1.29	1.94	1.72	2.80	1.29	.86	.43	.22	.00	.22	.43	1.08	.22	.43	1.29	.00	.00	.00	.00	.00	16.16
(2)	.44	.29	.44	.39	.64	.29	.20	.10	.05	.00	.05	.10	.25	.05	.10	.29	.00	.00	.00	.00	.00	3.68
8-12	5	11	8	6	11	18	13	1	8	8	14	7	8	5	4	2	0	0	0	0	0	129
(1)	1.08	2.37	1.72	1.29	2.37	3.88	2.80	.22	1.72	1.72	3.02	1.51	1.72	1.08	.86	.43	.00	.00	.00	.00	.00	27.80
(2)	.25	.54	.39	.29	.54	.88	.64	.05	.39	.39	.69	.34	.39	.25	.20	.10	.00	.00	.00	.00	.00	6.32
13-18	6	20	2	13	7	3	3	1	20	46	22	7	2	3	11	3	0	0	0	0	0	169
(1)	1.29	4.31	.43	2.80	1.51	.65	.65	.22	4.31	9.91	4.74	1.51	.43	.65	2.37	.65	.00	.00	.00	.00	.00	36.42
(2)	.29	.98	.10	.64	.34	.15	.15	.05	.98	2.25	1.08	.34	.10	.15	.54	.15	.00	.00	.00	.00	.00	8.28
19-24	3	7	20	4	4	2	0	0	3	6	4	0	3	2	2	3	0	0	0	0	0	63
(1)	.65	1.51	4.31	.86	.86	.43	.00	.00	.65	1.29	.86	.00	.65	.43	.43	.65	.00	.00	.00	.00	.00	13.58
(2)	.15	.34	.98	.20	.20	.10	.00	.00	.15	.29	.20	.00	.15	.10	.10	.15	.00	.00	.00	.00	.00	3.09
GT 24	6	6	4	7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	24
(1)	1.29	1.29	.86	1.51	.00	.00	.00	.00	.00	.00	.22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.17
(2)	.29	.29	.20	.34	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.18
ALL SPEEDS	29	50	43	39	36	29	20	4	33	60	42	16	18	11	19	15	0	0	0	0	0	464
(1)	6.25	10.78	9.27	8.41	7.76	6.25	4.31	.86	7.11	12.93	9.05	3.45	3.88	2.37	4.09	3.23	.00	.00	.00	.00	.00	100.00
(2)	1.42	2.45	2.11	1.91	1.76	1.42	.98	.20	1.62	2.94	2.06	.78	.88	.54	.93	.74	.00	.00	.00	.00	.00	22.75

(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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM JUL00-SEP00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 39.71		
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION FROM								VRBL	TOTAL		
									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	0	0
(1)	.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
C-3	2	1	3	1	2	0	1	0	1	1	0	0	1	0	0	1	0	0	0	14
(1)	.25	.12	.37	.12	.25	.00	.12	.00	.12	.12	.00	.00	.12	.00	.00	.12	.00	.12	.00	1.73
(2)	.10	.05	.15	.05	.10	.00	.05	.00	.05	.05	.00	.00	.05	.00	.00	.05	.00	.05	.00	.69
4-7	8	7	13	12	7	16	7	4	3	8	5	1	5	2	8	12	0	0	0	118
(1)	.99	.86	1.60	1.48	.86	1.98	.86	.49	.37	.99	.62	.12	.62	.25	.99	1.48	.00	1.48	.00	14.57
(2)	.39	.34	.64	.59	.34	.78	.34	.20	.15	.39	.25	.05	.25	.10	.39	.59	.00	.59	.00	5.78
8-12	7	12	4	6	8	18	20	15	22	29	24	12	4	8	18	6	0	0	0	213
(1)	.86	1.48	.49	.74	.99	2.22	2.47	1.85	2.72	3.58	2.96	1.48	.49	.99	2.22	.74	.00	.74	.00	26.30
(2)	.34	.59	.20	.29	.39	.88	.98	.74	1.08	1.42	1.18	.59	.20	.39	.88	.29	.00	.29	.00	10.44
13-18	10	14	1	2	9	9	19	11	34	74	37	19	39	21	15	18	0	0	0	332
(1)	1.23	1.73	.12	.25	1.11	1.11	2.35	1.36	4.20	9.14	4.57	2.35	4.81	2.59	1.85	2.22	.00	.00	.00	40.99
(2)	.49	.69	.05	.10	.44	.44	.93	.54	1.67	3.63	1.81	.93	1.91	1.03	.74	.88	.00	.00	.00	16.27
19-24	6	5	0	2	0	5	6	0	1	41	18	4	14	2	1	13	0	0	0	118
(1)	.74	.62	.00	.25	.00	.62	.74	.00	.12	5.06	2.22	.49	1.73	.25	.12	1.60	.00	.00	.00	14.57
(2)	.29	.25	.00	.10	.00	.25	.29	.00	.05	2.01	.88	.20	.69	.10	.05	.64	.00	.00	.00	5.78
GT 24	4	2	0	3	1	1	0	0	0	0	0	0	1	3	0	0	0	0	0	15
(1)	.49	.25	.00	.37	.12	.12	.00	.00	.00	.00	.00	.00	.12	.37	.00	.00	.00	.00	.00	1.85
(2)	.20	.10	.00	.15	.05	.05	.00	.00	.00	.00	.00	.00	.05	.15	.00	.00	.00	.00	.00	.74
ALL SPEEDS	37	41	21	26	27	49	53	30	61	153	84	36	64	36	42	50	0	0	0	810
(1)	4.57	5.06	2.59	3.21	3.33	6.05	6.54	3.70	7.53	18.89	10.37	4.44	7.90	4.44	5.19	6.17	.00	.00	.00	100.00
(2)	1.81	2.01	1.03	1.27	1.32	2.40	2.60	1.47	2.99	7.50	4.12	1.76	3.14	1.76	2.06	2.45	.00	.00	.00	39.71

220.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 16.86		
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION FROM								VRBL	TOTAL		
									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	0	0
(1)	.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
C-3	2	2	3	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	10
(1)	.58	.58	.87	.00	.29	.29	.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.91
(2)	.10	.10	.15	.00	.05	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49
4-7	7	2	1	2	1	10	4	2	1	0	2	0	0	1	1	2	0	0	0	36
(1)	2.03	.58	.29	.58	.29	2.91	1.16	.58	.29	.00	.58	.00	.00	.29	.29	.58	.00	.00	.00	10.47
(2)	.34	.10	.05	.10	.05	.49	.20	.10	.05	.00	.10	.00	.00	.05	.05	.10	.00	.00	.00	1.76
8-12	7	2	1	0	4	12	14	3	3	6	6	4	6	7	15	5	0	0	0	95
(1)	2.03	.58	.29	.00	1.16	3.49	4.07	.87	.87	1.74	1.74	1.16	1.74	2.03	4.36	1.45	.00	.00	.00	27.62
(2)	.34	.10	.05	.00	.20	.59	.69	.15	.15	.29	.29	.20	.29	.34	.74	.25	.00	.00	.00	4.66
13-18	1	0	0	0	0	0	8	9	6	27	20	18	32	15	1	4	0	0	0	141
(1)	.29	.00	.00	.00	.00	.00	2.33	2.62	1.74	7.85	5.81	5.23	9.30	4.36	.29	1.16	.00	.00	.00	40.99
(2)	.05	.00	.00	.00	.00	.00	.39	.44	.29	1.32	.98	.88	1.57	.74	.05	.20	.00	.00	.00	6.91
19-24	0	0	0	0	0	0	1	1	0	31	18	1	4	0	5	1	0	0	0	62
(1)	.00	.00	.00	.00	.00	.00	.29	.29	.00	9.01	5.23	.29	1.16	.00	1.45	.29	.00	.00	.00	18.02
(2)	.00	.00	.00	.00	.00	.00	.05	.05	.00	1.52	.88	.05	.20	.00	.25	.05	.00	.00	.00	3.04
GT 24	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	17	6	5	2	6	23	28	15	10	64	46	23	42	23	22	12	0	0	0	344
(1)	4.94	1.74	1.45	.58	1.74	6.69	8.14	4.36	2.91	18.60	13.37	6.69	12.21	6.69	6.40	3.49	.00	.00	.00	100.00
(2)	.83	.29	.25	.10	.29	1.13	1.37	.74	.49	3.14	2.25	1.13	2.06	1.13	1.08	.59	.00	.00	.00	16.86

(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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM JUL00-SEP00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G														CLASS FREQUENCY (PERCENT) = 5.98				
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL		
							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	0	0
(1)	.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
C-3	0	1	0	1	1	1	0	1	0	2	1	0	0	1	0	0	0	0	0	9
(1)	.00	.82	.00	.82	.82	.82	.00	.82	.00	1.64	.82	.00	.00	.82	.00	.00	.00	.00	.00	7.38
(2)	.00	.05	.00	.05	.05	.05	.00	.05	.00	.10	.05	.00	.00	.05	.00	.00	.00	.00	.00	.44
4-7	0	1	1	0	2	2	0	0	0	0	0	1	5	2	1	2	0	0	0	17
(1)	.00	.82	.82	.00	1.64	1.64	.00	.00	.00	.00	.00	.82	4.10	1.64	.82	1.64	.00	1.64	.00	13.93
(2)	.00	.05	.05	.00	.10	.10	.00	.00	.00	.00	.00	.05	.25	.10	.05	.10	.00	.10	.00	.83
8-12	0	0	0	1	0	0	1	4	4	5	3	10	8	7	0	1	0	0	0	44
(1)	.00	.00	.00	.82	.00	.00	.82	3.28	3.28	4.10	2.46	8.20	6.56	5.74	.00	.82	.00	.82	.00	36.07
(2)	.00	.00	.00	.05	.00	.00	.05	.20	.20	.25	.15	.49	.39	.34	.00	.05	.00	.05	.00	2.16
13-18	0	0	0	0	0	0	0	0	0	7	22	14	2	3	0	0	0	0	0	48
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.74	18.03	11.48	1.64	2.46	.00	.00	.00	.00	.00	39.34
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.34	1.08	.69	.10	.15	.00	.00	.00	.00	.00	2.35
19-24	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.46	.82	.00	.00	.00	.00	.00	.00	.00	3.28
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.05	.00	.00	.00	.00	.00	.00	.00	.20
GT 24	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	2	1	2	3	3	1	5	4	14	29	26	15	13	1	3	0	0	0	122
(1)	.00	1.64	.82	1.64	2.46	2.46	.82	4.10	3.28	11.48	23.77	21.31	12.30	10.66	.82	2.46	.00	2.46	.00	100.00
(2)	.00	.10	.05	.10	.15	.15	.05	.25	.20	.69	1.42	1.27	.74	.64	.05	.15	.00	.15	.00	5.98

220.0 FT WIND DATA		STABILITY CLASS ALL														CLASS FREQUENCY (PERCENT) = 100.00				
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL		
							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	0	0
(1)	.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
C-3	4	4	7	3	5	3	2	1	2	3	1	0	1	1	0	2	0	0	0	39
(1)	.20	.20	.34	.15	.25	.15	.10	.05	.10	.15	.05	.00	.05	.05	.00	.10	.00	.10	.00	1.91
(2)	.20	.20	.34	.15	.25	.15	.10	.05	.10	.15	.05	.00	.05	.05	.00	.10	.00	.10	.00	1.91
4-7	30	23	31	26	27	35	16	8	5	8	12	5	17	11	16	27	0	0	0	297
(1)	1.47	1.13	1.52	1.27	1.32	1.72	.78	.39	.25	.39	.59	.25	.83	.54	.78	1.32	.00	1.32	.00	14.56
(2)	1.47	1.13	1.52	1.27	1.32	1.72	.78	.39	.25	.39	.59	.25	.83	.54	.78	1.32	.00	1.32	.00	14.56
8-12	35	46	15	14	36	55	51	24	43	57	54	39	38	41	40	18	0	0	0	606
(1)	1.72	2.25	.74	.69	1.76	2.70	2.50	1.18	2.11	2.79	2.65	1.91	1.86	2.01	1.96	.88	.00	1.96	.88	29.71
(2)	1.72	2.25	.74	.69	1.76	2.70	2.50	1.18	2.11	2.79	2.65	1.91	1.86	2.01	1.96	.88	.00	1.96	.88	29.71
13-18	22	38	4	15	16	17	32	21	76	167	114	61	79	43	32	38	0	0	0	775
(1)	1.08	1.86	.20	.74	.78	.83	1.57	1.03	3.73	8.19	5.59	2.99	3.87	2.11	1.57	1.86	.00	1.86	.00	37.99
(2)	1.08	1.86	.20	.74	.78	.83	1.57	1.03	3.73	8.19	5.59	2.99	3.87	2.11	1.57	1.86	.00	1.86	.00	37.99
19-24	16	15	30	6	4	11	8	1	7	80	47	6	22	4	8	19	0	0	0	284
(1)	.78	.74	1.47	.29	.20	.54	.39	.05	.34	3.92	2.30	.29	1.08	.20	.39	.93	.00	.93	.00	13.92
(2)	.78	.74	1.47	.29	.20	.54	.39	.05	.34	3.92	2.30	.29	1.08	.20	.39	.93	.00	.93	.00	13.92
GT 24	10	8	4	10	1	1	0	0	0	0	1	0	1	3	0	0	0	0	0	39
(1)	.49	.39	.20	.49	.05	.05	.00	.00	.00	.00	.05	.00	.05	.15	.00	.00	.00	.00	.00	1.91
(2)	.49	.39	.20	.49	.05	.05	.00	.00	.00	.00	.05	.00	.05	.15	.00	.00	.00	.00	.00	1.91
ALL SPEEDS	117	134	91	74	89	122	109	55	133	315	229	111	158	103	96	104	0	0	0	2040
(1)	5.74	6.57	4.46	3.63	4.36	5.98	5.34	2.70	6.52	15.44	11.23	5.44	7.75	5.05	4.71	5.10	.00	5.10	.00	100.00
(2)	5.74	6.57	4.46	3.63	4.36	5.98	5.34	2.70	6.52	15.44	11.23	5.44	7.75	5.05	4.71	5.10	.00	5.10	.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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM OCT00-DEC00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 7.12					
SPEED(MPH)		WIND DIRECTION FROM																TOTAL					
		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	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	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	5	7	0	0	1	0	0	0	0	0	0	1	0	0	4	2	2	2	0	0	0	22	
(1)	3.21	4.49	.00	.00	.64	.00	.00	.00	.00	.00	.00	.64	.00	.00	2.56	1.28	1.28	.00	.00	.00	.00	14.10	
(2)	.23	.32	.00	.00	.05	.00	.00	.00	.00	.00	.05	.00	.00	.00	.18	.09	.09	.00	.00	.00	.00	1.00	
8-12	4	4	0	0	0	1	0	0	0	0	1	6	5	4	10	2	2	0	0	0	0	39	
(1)	2.56	2.56	.00	.00	.00	.64	.00	.00	.00	.00	.64	3.85	3.21	2.56	6.41	1.28	1.28	.00	.00	.00	.00	25.00	
(2)	.18	.18	.00	.00	.00	.05	.00	.00	.00	.05	.27	.23	.18	.46	.09	.09	.00	.00	.00	.00	.00	1.78	
13-18	3	0	1	0	1	0	0	0	0	0	0	2	6	12	13	6	3	0	0	0	0	47	
(1)	1.92	.00	.64	.00	.64	.00	.00	.00	.00	.00	.00	1.28	3.85	7.69	8.33	3.85	1.92	.00	.00	.00	.00	30.13	
(2)	.14	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.09	.27	.55	.59	.27	.14	.00	.00	.00	.00	2.14	
19-24	4	0	0	2	0	0	0	0	0	0	0	1	9	6	8	1	0	0	0	0	0	31	
(1)	2.56	.00	.00	1.28	.00	.00	.00	.00	.00	.00	.00	.64	5.77	3.85	5.13	.64	.00	.00	.00	.00	.00	19.87	
(2)	.18	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.05	.41	.27	.36	.05	.00	.00	.00	.00	.00	1.41	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	3	5	4	5	0	0	0	0	0	17	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.92	3.21	2.56	3.21	.00	.00	.00	.00	.00	10.90	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.23	.18	.23	.00	.00	.00	.00	.00	.78	
ALL SPEEDS	16	11	1	2	2	1	0	0	0	1	9	12	28	38	22	13	0	0	0	0	0	156	
(1)	10.26	7.05	.64	1.28	1.28	.64	.00	.00	.00	.64	5.77	7.69	17.95	24.36	14.10	8.33	.00	.00	.00	.00	.00	100.00	
(2)	.73	.50	.05	.09	.09	.05	.00	.00	.00	.05	.41	.55	1.28	1.73	1.00	.59	.00	.00	.00	.00	.00	7.12	

220.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 3.70					
SPEED(MPH)		WIND DIRECTION FROM																TOTAL					
		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	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	.00
(2)	.00	.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	.00
(2)	.00	.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	3	2	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	9	
(1)	.00	3.70	2.47	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.23	.00	3.70	.00	.00	.00	.00	.00	.00	11.11	
(2)	.00	.14	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.14	.00	.00	.00	.00	.00	.00	.41	
8-12	1	0	1	0	0	0	0	0	0	0	0	2	7	1	1	0	0	0	0	0	0	13	
(1)	1.23	.00	1.23	.00	.00	.00	.00	.00	.00	.00	.00	2.47	8.64	1.23	1.23	.00	.00	.00	.00	.00	.00	16.05	
(2)	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.09	.32	.05	.05	.00	.00	.00	.00	.00	.00	.59	
13-18	1	0	0	1	2	0	1	0	0	2	0	5	8	2	1	2	0	0	0	0	0	25	
(1)	1.23	.00	.00	1.23	2.47	.00	1.23	.00	.00	2.47	.00	6.17	9.88	2.47	1.23	2.47	.00	.00	.00	.00	.00	30.86	
(2)	.05	.00	.00	.05	.09	.00	.05	.00	.00	.09	.00	.23	.36	.09	.05	.09	.00	.00	.00	.00	.00	1.14	
19-24	2	0	0	2	0	0	0	0	0	0	0	2	2	4	0	2	0	0	0	0	0	14	
(1)	2.47	.00	.00	2.47	.00	.00	.00	.00	.00	.00	.00	2.47	2.47	4.94	.00	2.47	.00	.00	.00	.00	.00	17.28	
(2)	.09	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.09	.09	.18	.00	.09	.00	.00	.00	.00	.00	.64	
GT 24	0	0	0	0	0	0	0	0	0	0	0	3	6	4	5	2	0	0	0	0	0	20	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.70	7.41	4.94	6.17	2.47	.00	.00	.00	.00	.00	24.69	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.27	.18	.23	.09	.00	.00	.00	.00	.00	.91	
ALL SPEEDS	4	3	3	3	2	0	1	0	0	2	2	18	17	14	6	6	0	0	0	0	0	81	
(1)	4.94	3.70	3.70	3.70	2.47	.00	1.23	.00	.00	2.47	2.47	22.22	20.99	17.28	7.41	7.41	.00	.00	.00	.00	.00	100.00	
(2)	.18	.14	.14	.14	.09	.00	.05	.00	.00	.09	.09	.82	.78	.64	.27	.27	.00	.00	.00	.00	.00	3.70	

(1) = PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE
 (2) = PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD
 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-2 (continued)

PILGRIM OCT00-DEC00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 3.10		
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL		
							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	0	0
(1)	.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
C-3	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	1	0	0	0	0	0	3	0	0	3	1	1	1	0	0	0	0	0	0	10
(1)	1.47	.00	.00	.00	.00	.00	4.41	.00	.00	4.41	1.47	1.47	1.47	.00	.00	.00	.00	.00	.00	14.71
(2)	.05	.00	.00	.00	.00	.00	.14	.00	.00	.14	.05	.05	.05	.00	.00	.00	.00	.00	.00	.46
8-12	1	1	1	0	0	0	1	0	1	1	3	3	1	0	0	0	0	0	0	13
(1)	1.47	1.47	1.47	.00	.00	.00	1.47	.00	1.47	1.47	4.41	4.41	1.47	.00	.00	.00	.00	.00	.00	19.12
(2)	.05	.05	.05	.00	.00	.00	.05	.00	.05	.05	.14	.14	.05	.00	.00	.00	.00	.00	.00	.59
13-18	0	0	0	1	0	0	1	0	2	0	1	3	2	5	0	1	0	0	0	16
(1)	.00	.00	.00	1.47	.00	.00	1.47	.00	2.94	.00	1.47	4.41	2.94	7.35	.00	1.47	.00	1.47	.00	23.53
(2)	.00	.00	.00	.05	.00	.00	.05	.00	.09	.00	.05	.14	.09	.23	.00	.05	.00	.05	.00	.73
19-24	0	0	2	1	0	0	0	0	1	0	0	2	6	2	1	2	0	0	0	17
(1)	.00	.00	2.94	1.47	.00	.00	.00	.00	1.47	.00	.00	2.94	8.82	2.94	1.47	2.94	.00	2.94	.00	25.00
(2)	.00	.00	.09	.05	.00	.00	.00	.00	.05	.00	.00	.09	.27	.09	.05	.09	.00	.09	.00	.78
GT 24	0	0	0	0	0	0	0	0	0	0	0	1	3	3	2	3	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.47	4.41	4.41	2.94	4.41	.00	4.41	.00	17.65
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.14	.09	.14	.00	.14	.00	.55
ALL SPEEDS	2	1	3	2	0	0	5	0	4	4	5	10	13	10	3	6	0	0	0	68
(1)	2.94	1.47	4.41	2.94	.00	.00	7.35	.00	5.88	5.88	7.35	14.71	19.12	14.71	4.41	8.82	.00	8.82	.00	100.00
(2)	.09	.05	.14	.09	.00	.00	.23	.00	.18	.18	.23	.46	.59	.46	.14	.27	.00	.27	.00	3.10

220.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 37.50		
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL		
							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	0	0
(1)	.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
C-3	2	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5
(1)	.24	.00	.00	.12	.12	.00	.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.61
(2)	.09	.00	.00	.05	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23
4-7	2	4	6	3	4	3	4	3	3	3	3	0	2	2	3	3	0	0	0	48
(1)	.24	.49	.73	.36	.49	.36	.49	.36	.36	.36	.36	.00	.24	.24	.36	.36	.00	.00	.00	5.84
(2)	.09	.18	.27	.14	.18	.14	.18	.14	.14	.14	.14	.00	.09	.09	.14	.14	.00	.00	.00	2.19
8-12	6	8	17	9	8	15	7	1	2	10	8	10	9	11	9	9	0	0	0	139
(1)	.73	.97	2.07	1.09	.97	1.82	.85	.12	.24	1.22	.97	1.22	1.09	1.34	1.09	1.09	.00	1.09	.00	16.91
(2)	.27	.36	.78	.41	.36	.68	.32	.05	.09	.46	.36	.46	.41	.50	.41	.41	.00	.41	.00	6.34
13-18	15	6	6	8	10	6	7	1	0	11	15	37	41	30	17	5	0	0	0	215
(1)	1.82	.73	.73	.97	1.22	.73	.85	.12	.00	1.34	1.82	4.50	4.99	3.65	2.07	.61	.00	.00	.00	26.16
(2)	.68	.27	.27	.36	.46	.27	.32	.05	.00	.50	.68	1.69	1.87	1.37	.78	.23	.00	.00	.00	9.81
19-24	5	2	3	6	7	10	1	0	1	7	12	17	50	43	38	16	0	0	0	218
(1)	.61	.24	.36	.73	.85	1.22	.12	.00	.12	.85	1.46	2.07	6.08	5.23	4.62	1.95	.00	.00	.00	26.52
(2)	.23	.09	.14	.27	.32	.46	.05	.00	.05	.32	.55	.78	2.28	1.96	1.73	.73	.00	.00	.00	9.95
GT 24	35	0	0	2	3	3	0	3	5	2	10	12	36	51	26	9	0	0	0	197
(1)	4.26	.00	.00	.24	.36	.36	.00	.36	.61	.24	1.22	1.46	4.38	6.20	3.16	1.09	.00	.00	.00	23.97
(2)	1.60	.00	.00	.09	.14	.14	.00	.14	.23	.09	.46	.55	1.64	2.33	1.19	.41	.00	.00	.00	8.99
ALL SPEEDS	65	20	32	29	33	37	20	8	11	33	48	76	138	137	93	42	0	0	0	822
(1)	7.91	2.43	3.89	3.53	4.01	4.50	2.43	.97	1.34	4.01	5.84	9.25	16.79	16.67	11.31	5.11	.00	.00	.00	100.00
(2)	2.97	.91	1.46	1.32	1.51	1.69	.91	.36	.50	1.51	2.19	3.47	6.30	6.25	4.24	1.92	.00	.00	.00	37.50

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 C = CALM (WIND SPEED LESS THAN OR EQUAL TO 0.95 MPH)

TABLE A-2 (continued)

PILGRIM OCT00-DEC00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 36.41			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	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
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	2	3	1	2	2	1	0	2	0	3	0	2	1	0	1	0	1	0	0	23
(1)	.38	.25	.38	.13	.25	.25	.13	.00	.25	.00	.38	.00	.25	.13	.00	.13	.00	.13	.00	.00	2.88
(2)	.14	.09	.14	.05	.09	.09	.05	.00	.09	.00	.14	.00	.09	.05	.00	.05	.00	.05	.00	.00	1.05
4-7	7	7	1	3	5	8	7	5	6	4	5	5	6	4	3	2	0	0	0	0	78
(1)	.88	.88	.13	.38	.63	1.00	.88	.63	.75	.50	.63	.63	.75	.50	.38	.25	.00	.00	.00	.00	9.77
(2)	.32	.32	.05	.14	.23	.36	.32	.23	.27	.18	.23	.23	.27	.18	.14	.09	.00	.09	.00	.00	3.56
8-12	8	5	5	3	1	9	18	14	6	15	14	21	13	21	6	12	0	0	0	0	171
(1)	1.00	.63	.63	.38	.13	1.13	2.26	1.75	.75	1.88	1.75	2.63	1.63	2.63	.75	1.50	.00	.00	.00	.00	21.43
(2)	.36	.23	.23	.14	.05	.41	.82	.64	.27	.68	.64	.96	.59	.96	.27	.55	.00	.00	.00	.00	7.80
13-18	4	12	5	3	6	6	17	10	7	19	18	45	49	24	15	11	0	0	0	0	251
(1)	.50	1.50	.63	.38	.75	.75	2.13	1.25	.88	2.38	2.26	5.64	6.14	3.01	1.88	1.38	.00	.00	.00	.00	31.45
(2)	.18	.55	.23	.14	.27	.27	.78	.46	.32	.87	.82	2.05	2.24	1.09	.68	.50	.00	.00	.00	.00	11.45
19-24	20	5	2	2	6	6	6	9	0	19	17	25	34	15	22	17	0	0	0	0	205
(1)	2.51	.63	.25	.25	.75	.75	.75	1.13	.00	2.38	2.13	3.13	4.26	1.88	2.76	2.13	.00	.00	.00	.00	25.69
(2)	.91	.23	.09	.09	.27	.27	.27	.41	.00	.87	.78	1.14	1.55	.68	1.00	.78	.00	.00	.00	.00	9.35
GT 24	11	3	2	1	3	3	3	4	4	2	1	0	1	8	12	12	0	0	0	0	70
(1)	1.38	.38	.25	.13	.38	.38	.38	.50	.50	.25	.13	.00	.13	1.00	1.50	1.50	.00	.00	.00	.00	8.77
(2)	.50	.14	.09	.05	.14	.14	.14	.18	.18	.09	.05	.00	.05	.36	.55	.55	.00	.00	.00	.00	3.19
ALL SPEEDS	53	34	18	13	23	34	52	42	25	59	58	96	105	73	58	55	0	0	0	0	798
(1)	6.64	4.26	2.26	1.63	2.88	4.26	6.52	5.26	3.13	7.39	7.27	12.03	13.16	9.15	7.27	6.89	.00	.00	.00	.00	100.00
(2)	2.42	1.55	.82	.59	1.05	1.55	2.37	1.92	1.14	2.69	2.65	4.38	4.79	3.33	2.65	2.51	.00	.00	.00	.00	36.41

220.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 9.63			
SPEED(MPH)		WIND DIRECTION FROM																TOTAL			
		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	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.47	.00	.00	.00	.00	.00	.47
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
C-3	0	0	1	1	0	0	0	0	0	0	1	0	1	1	2	0	0	0	0	0	7
(1)	.00	.00	.47	.47	.00	.00	.00	.00	.00	.00	.47	.00	.47	.47	.95	.00	.00	.00	.00	.00	3.32
(2)	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.05	.00	.05	.05	.09	.00	.00	.00	.00	.00	.32
4-7	3	0	0	1	0	3	1	2	3	1	0	1	4	2	2	3	0	0	0	0	26
(1)	1.42	.00	.00	.47	.00	1.42	.47	.95	1.42	.47	.00	.47	1.90	.95	.95	1.42	.00	.00	.00	.00	12.32
(2)	.14	.00	.00	.05	.00	.14	.05	.09	.14	.05	.00	.05	.18	.09	.09	.14	.00	.00	.00	.00	1.19
8-12	3	1	0	3	0	0	2	2	3	4	7	4	7	8	11	6	0	0	0	0	61
(1)	1.42	.47	.00	1.42	.00	.00	.95	.95	1.42	1.90	3.32	1.90	3.32	3.79	5.21	2.84	.00	.00	.00	.00	28.91
(2)	.14	.05	.00	.14	.00	.00	.09	.09	.14	.18	.32	.18	.32	.36	.50	.27	.00	.00	.00	.00	2.78
13-18	1	0	0	0	0	0	5	3	4	6	10	8	10	2	2	2	0	0	0	0	53
(1)	.47	.00	.00	.00	.00	.00	2.37	1.42	1.90	2.84	4.74	3.79	4.74	.95	.95	.95	.00	.00	.00	.00	25.12
(2)	.05	.00	.00	.00	.00	.00	.23	.14	.18	.27	.46	.36	.46	.09	.09	.09	.00	.00	.00	.00	2.42
19-24	2	0	0	0	0	0	0	1	0	5	17	13	12	3	1	2	0	0	0	0	56
(1)	.95	.00	.00	.00	.00	.00	.00	.47	.00	2.37	8.06	6.16	5.69	1.42	.47	.95	.00	.00	.00	.00	26.54
(2)	.09	.00	.00	.00	.00	.00	.00	.05	.00	.23	.78	.59	.55	.14	.05	.09	.00	.00	.00	.00	2.55
GT 24	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	2	0	0	0	0	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.90	.47	.00	.00	.00	.00	.95	.00	.00	.00	.00	3.32
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.05	.00	.00	.00	.00	.09	.00	.00	.00	.00	.32
ALL SPEEDS	9	1	1	5	0	3	8	8	10	20	36	26	34	16	19	15	0	0	0	0	211
(1)	4.27	.47	.47	2.37	.00	1.42	3.79	3.79	4.74	9.48	17.06	12.32	16.11	7.58	9.00	7.11	.00	.00	.00	.00	100.00
(2)	.41	.05	.05	.23	.00	.14	.36	.36	.46	.91	1.64	1.19	1.55	.73	.87	.68	.00	.00	.00	.00	9.63

(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 0.95 MPH)

TABLE A-2 (continued)

PILGRIM OCT00-DEC00 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 2.55		
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION FROM								VRBL	TOTAL		
									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	0	0
(1)	.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
C-3	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
(1)	1.79	.00	.00	.00	.00	.00	.00	.00	.00	1.79	.00	.00	1.79	.00	.00	.00	.00	.00	.00	5.36
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00	.14
4-7	2	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	7
(1)	3.57	.00	.00	.00	.00	.00	.00	.00	1.79	1.79	.00	.00	.00	1.79	1.79	1.79	.00	.00	.00	12.50
(2)	.09	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.05	.05	.05	.00	.00	.00	.32
8-12	1	1	0	0	0	0	0	2	0	0	0	5	3	2	1	0	0	0	0	15
(1)	1.79	1.79	.00	.00	.00	.00	.00	3.57	.00	.00	.00	8.93	5.36	3.57	1.79	.00	.00	.00	.00	26.79
(2)	.05	.05	.00	.00	.00	.00	.00	.09	.00	.00	.00	.23	.14	.09	.05	.00	.00	.00	.00	.68
13-18	0	0	0	0	0	0	0	0	1	3	10	4	0	0	0	0	0	0	0	18
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.79	5.36	17.86	7.14	.00	.00	.00	.00	.00	.00	.00	32.14
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.46	.18	.00	.00	.00	.00	.00	.00	.00	.82
19-24	0	0	0	0	0	0	0	0	0	3	1	6	2	0	0	0	0	0	0	12
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.36	1.79	10.71	3.57	.00	.00	.00	.00	.00	.00	21.43
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.05	.27	.09	.00	.00	.00	.00	.00	.00	.55
GT 24	0	0	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	.00	.00	1.79	.00	.00	.00	.00	1.79
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05
ALL SPEEDS	4	1	0	0	0	0	0	2	1	3	6	16	14	5	3	1	0	0	0	56
(1)	7.14	1.79	.00	.00	.00	.00	.00	3.57	1.79	5.36	10.71	28.57	25.00	8.93	5.36	1.79	.00	.00	.00	100.00
(2)	.18	.05	.00	.00	.00	.00	.00	.09	.05	.14	.27	.73	.64	.23	.14	.05	.00	.00	.00	2.55

220.0 FT WIND DATA		STABILITY CLASS ALL																CLASS FREQUENCY (PERCENT) = 100.00		
SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	WIND DIRECTION FROM								VRBL	TOTAL		
									S	SSW	SW	WSW	W	WNW	NW	NNW				
CALM	0	0	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	.00	.00	.05	.00	.00	.00	.00	.05
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05
C-3	6	2	4	3	3	2	2	0	2	1	4	0	4	2	2	1	0	0	0	38
(1)	.27	.09	.18	.14	.14	.09	.09	.00	.09	.05	.18	.00	.18	.09	.09	.05	.00	.00	.00	1.73
(2)	.27	.09	.18	.14	.14	.09	.09	.00	.09	.05	.18	.00	.18	.09	.09	.05	.00	.00	.00	1.73
4-7	20	21	9	7	10	14	15	10	13	12	10	8	13	16	11	11	0	0	0	200
(1)	.91	.96	.41	.32	.46	.64	.68	.46	.59	.55	.46	.36	.59	.73	.50	.50	.00	.00	.00	9.12
(2)	.91	.96	.41	.32	.46	.64	.68	.46	.59	.55	.46	.36	.59	.73	.50	.50	.00	.00	.00	9.12
8-12	24	20	24	15	9	25	28	19	12	31	40	55	38	53	29	29	0	0	0	451
(1)	1.09	.91	1.09	.68	.41	1.14	1.28	.87	.55	1.41	1.82	2.51	1.73	2.42	1.32	1.32	.00	.00	.00	20.57
(2)	1.09	.91	1.09	.68	.41	1.14	1.28	.87	.55	1.41	1.82	2.51	1.73	2.42	1.32	1.32	.00	.00	.00	20.57
13-18	24	18	12	13	19	12	31	14	13	39	49	114	126	76	41	24	0	0	0	625
(1)	1.09	.82	.55	.59	.87	.55	1.41	.64	.59	1.78	2.24	5.20	5.75	3.47	1.87	1.09	.00	.00	.00	28.51
(2)	1.09	.82	.55	.59	.87	.55	1.41	.64	.59	1.78	2.24	5.20	5.75	3.47	1.87	1.09	.00	.00	.00	28.51
19-24	33	7	7	13	13	16	7	10	2	31	49	61	119	75	70	40	0	0	0	553
(1)	1.51	.32	.32	.59	.59	.73	.32	.46	.09	1.41	2.24	2.78	5.43	3.42	3.19	1.82	.00	.00	.00	25.23
(2)	1.51	.32	.32	.59	.59	.73	.32	.46	.09	1.41	2.24	2.78	5.43	3.42	3.19	1.82	.00	.00	.00	25.23
GT 24	46	3	2	3	6	6	3	7	9	8	12	16	49	71	50	33	0	0	0	324
(1)	2.10	.14	.09	.14	.27	.27	.14	.32	.41	.36	.55	.73	2.24	3.24	2.28	1.51	.00	.00	.00	14.78
(2)	2.10	.14	.09	.14	.27	.27	.14	.32	.41	.36	.55	.73	2.24	3.24	2.28	1.51	.00	.00	.00	14.78
ALL SPEEDS	153	71	58	54	60	75	86	60	51	122	164	254	349	293	204	138	0	0	0	2192
(1)	6.98	3.24	2.65	2.46	2.74	3.42	3.92	2.74	2.33	5.57	7.48	11.59	15.92	13.37	9.31	6.30	.00	.00	.00	100.00
(2)	6.98	3.24	2.65	2.46	2.74	3.42	3.92	2.74	2.33	5.57	7.48	11.59	15.92	13.37	9.31	6.30	.00	.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 0.95 MPH)

APPENDIX B

Atmospheric Dispersion and Deposition Factors

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Table B-1
Undepleted χ/Q Factors for Main Stack

Pilgrim 1st Quarter 2000 General Elevated X/Q's -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	93	1.049E-09	3.585E-08	1.648E-08	9.284E-09	8.384E-09	8.796E-09	9.041E-09	8.782E-09
NNE	230	1.849E-09	4.906E-08	2.396E-08	1.752E-08	1.750E-08	1.984E-08	2.093E-08	2.053E-08
NE	143	8.747E-10	2.877E-08	1.608E-08	1.122E-08	1.095E-08	1.282E-08	1.383E-08	1.371E-08
ENE	129	1.388E-09	4.386E-08	1.528E-08	7.719E-09	8.227E-09	1.146E-08	1.326E-08	1.359E-08
E	236	3.344E-09	9.920E-08	3.719E-08	2.006E-08	1.991E-08	2.197E-08	2.194E-08	2.075E-08
ESE	273	3.016E-09	8.757E-08	3.731E-08	2.492E-08	2.644E-08	2.993E-08	2.932E-08	2.713E-08
SE	214	4.271E-09	1.219E-07	6.276E-08	3.396E-08	2.927E-08	3.195E-08	2.432E-08	2.270E-08
SSE	110	2.386E-09	8.306E-08	4.440E-08	4.863E-08	5.314E-08	4.449E-08	3.697E-08	3.105E-08
S	75	2.266E-09	5.022E-08	2.472E-08	5.053E-08	4.853E-08	6.513E-08	6.074E-08	4.743E-08
SSW	86	5.898E-09	8.794E-08	4.765E-08	6.188E-08	1.240E-07	1.566E-07	1.029E-07	7.464E-08
SW	85	3.350E-09	4.391E-08	3.992E-08	6.792E-08	6.406E-08	5.336E-08	4.015E-08	3.136E-08
WSW	71	1.114E-08	7.171E-08	3.774E-08	3.292E-08	3.979E-08	3.677E-08	2.833E-08	2.251E-08
W	44	9.006E-09	9.471E-08	2.754E-08	1.499E-08	1.525E-08	1.385E-08	1.052E-08	8.788E-09
WNW	47	3.422E-09	5.941E-08	3.148E-08	1.574E-08	1.491E-08	1.275E-08	1.008E-08	8.738E-09
NW	54	1.280E-09	3.248E-08	1.246E-08	6.802E-09	6.774E-09	7.599E-09	7.803E-09	7.556E-09
NNW	47	3.065E-10	1.605E-08	8.347E-09	4.384E-09	3.946E-09	4.635E-09	5.117E-09	5.147E-09
AVERAGE	1937	3.428E-09	6.286E-08	3.021E-08	2.678E-08	3.069E-08	3.325E-08	2.720E-08	2.278E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	93	8.237E-09	7.675E-09	7.142E-09	6.671E-09	6.210E-09	4.485E-09	3.459E-09	2.345E-09
NNE	230	1.929E-08	1.799E-08	1.674E-08	1.563E-08	1.455E-08	1.047E-08	8.035E-09	5.392E-09
NE	143	1.297E-08	1.215E-08	1.135E-08	1.062E-08	9.921E-09	7.217E-09	5.581E-09	3.790E-09
ENE	129	1.308E-08	1.237E-08	1.162E-08	1.092E-08	1.020E-08	7.395E-09	5.672E-09	3.790E-09
E	236	1.910E-08	1.751E-08	1.607E-08	1.482E-08	1.365E-08	9.547E-09	7.215E-09	4.757E-09
ESE	273	2.455E-08	2.218E-08	2.011E-08	1.835E-08	1.677E-08	1.147E-08	8.555E-09	5.546E-09
SE	214	2.063E-08	1.871E-08	1.702E-08	1.557E-08	1.425E-08	9.738E-09	7.238E-09	4.658E-09
SSE	110	2.649E-08	2.297E-08	2.019E-08	1.793E-08	1.607E-08	1.044E-08	7.602E-09	5.453E-09
S	75	3.693E-08	2.992E-08	2.497E-08	2.130E-08	1.849E-08	1.087E-08	7.516E-09	4.500E-09
SSW	86	5.754E-08	4.630E-08	3.843E-08	3.267E-08	2.826E-08	1.643E-08	1.130E-08	6.734E-09
SW	85	2.540E-08	2.117E-08	1.804E-08	1.561E-08	1.369E-08	8.327E-09	5.832E-09	3.511E-09
WSW	71	1.841E-08	1.544E-08	1.322E-08	1.149E-08	1.011E-08	6.194E-09	4.356E-09	2.635E-09
W	44	7.468E-09	6.464E-09	5.686E-09	5.066E-09	4.539E-09	4.747E-09	3.445E-09	2.178E-09
WNW	47	7.648E-09	6.789E-09	6.101E-09	5.542E-09	5.044E-09	3.481E-09	3.144E-09	2.188E-09
NW	54	7.082E-09	6.607E-09	6.159E-09	5.760E-09	5.368E-09	5.601E-09	4.180E-09	3.189E-09
NNW	47	4.919E-09	4.643E-09	4.361E-09	4.101E-09	3.841E-09	2.819E-09	2.393E-09	3.515E-09
AVERAGE	1937	1.936E-08	1.680E-08	1.482E-08	1.325E-08	1.194E-08	8.076E-09	5.970E-09	4.011E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	93	1.768E-09	1.414E-09	1.174E-09	1.005E-09	8.753E-10	1.394E-09	1.236E-09
NNE	230	4.022E-09	3.187E-09	2.629E-09	2.236E-09	1.936E-09	1.710E-09	1.528E-09
NE	143	2.852E-09	2.275E-09	1.885E-09	1.610E-09	1.399E-09	1.239E-09	1.111E-09
ENE	129	2.819E-09	2.306E-09	2.113E-09	1.784E-09	1.535E-09	1.349E-09	1.200E-09
E	236	3.522E-09	2.781E-09	2.801E-09	2.359E-09	2.025E-09	1.775E-09	1.576E-09
ESE	273	4.069E-09	3.614E-09	2.946E-09	2.482E-09	2.133E-09	1.871E-09	1.663E-09
SE	214	3.390E-09	3.142E-09	2.534E-09	2.115E-09	1.802E-09	1.570E-09	1.387E-09
SSE	110	3.874E-09	2.976E-09	2.408E-09	2.015E-09	1.719E-09	1.497E-09	1.322E-09
S	75	3.133E-09	2.379E-09	1.915E-09	1.595E-09	1.355E-09	1.176E-09	1.035E-09
SSW	86	4.681E-09	3.552E-09	2.859E-09	2.382E-09	2.026E-09	1.760E-09	1.551E-09
SW	85	2.465E-09	1.878E-09	1.510E-09	1.258E-09	1.127E-09	9.793E-10	8.631E-10
WSW	71	1.853E-09	1.434E-09	1.261E-09	1.044E-09	8.835E-10	7.742E-10	6.791E-10
W	44	1.576E-09	1.228E-09	1.004E-09	8.483E-10	8.947E-10	7.808E-10	6.911E-10
WNW	47	1.697E-09	1.730E-09	2.264E-09	2.392E-09	2.047E-09	1.786E-09	1.581E-09
NW	54	2.305E-09	1.882E-09	1.565E-09	1.617E-09	1.370E-09	1.186E-09	1.042E-09
NNW	47	2.471E-09	1.886E-09	1.520E-09	1.268E-09	1.079E-09	9.384E-10	8.272E-10
AVERAGE	1937	2.906E-09	2.354E-09	2.024E-09	1.751E-09	1.513E-09	1.362E-09	1.206E-09

Table B-1
Undepleted χ/Q Factors for Main Stack

PILGRIM 2ND QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE χ/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	87	7.665E-10	2.339E-08	1.685E-08	1.264E-08	1.190E-08	1.287E-08	1.326E-08	1.280E-08
NNE	337	2.052E-09	6.160E-08	4.737E-08	3.468E-08	3.302E-08	3.745E-08	3.936E-08	3.815E-08
NE	144	6.584E-10	2.411E-08	2.605E-08	1.946E-08	1.598E-08	1.477E-08	1.493E-08	1.446E-08
ENE	76	1.201E-10	5.821E-09	7.489E-09	5.631E-09	5.391E-09	6.953E-09	7.906E-09	7.990E-09
E	131	7.161E-10	2.160E-08	1.079E-08	7.454E-09	7.873E-09	1.053E-08	1.207E-08	1.233E-08
ESE	76	8.959E-10	2.808E-08	1.555E-08	1.191E-08	1.044E-08	9.112E-09	8.311E-09	7.609E-09
SE	52	4.120E-10	1.073E-08	1.345E-08	1.656E-08	1.495E-08	1.698E-08	1.210E-08	1.133E-08
SSE	85	2.883E-09	7.894E-08	4.988E-08	5.436E-08	6.594E-08	5.712E-08	4.622E-08	3.757E-08
S	114	6.354E-09	1.197E-07	9.520E-08	1.804E-07	1.563E-07	1.464E-07	1.146E-07	8.573E-08
SSW	154	1.173E-08	1.769E-07	1.431E-07	1.819E-07	2.864E-07	2.408E-07	1.543E-07	1.101E-07
SW	127	1.553E-08	9.481E-08	1.010E-07	1.333E-07	1.217E-07	9.845E-08	7.363E-08	5.720E-08
WSW	100	1.485E-08	1.122E-07	8.436E-08	7.290E-08	9.114E-08	8.656E-08	6.753E-08	5.402E-08
W	128	7.957E-09	9.435E-08	9.563E-08	9.135E-08	1.004E-07	9.391E-08	7.142E-08	5.909E-08
WNW	97	2.744E-09	3.613E-08	4.242E-08	4.478E-08	5.805E-08	6.323E-08	5.319E-08	4.640E-08
NW	67	5.083E-10	1.049E-08	1.139E-08	1.042E-08	1.187E-08	1.579E-08	1.688E-08	1.628E-08
NNW	51	2.256E-10	7.374E-09	6.917E-09	6.536E-09	7.195E-09	9.463E-09	1.044E-08	1.037E-08
AVERAGE	1826	4.275E-09	5.664E-08	4.797E-08	5.527E-08	6.241E-08	5.753E-08	4.476E-08	3.634E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	87	1.190E-08	1.098E-08	1.011E-08	9.350E-09	8.641E-09	6.072E-09	4.582E-09	2.996E-09
NNE	337	3.542E-08	3.259E-08	2.995E-08	2.764E-08	2.549E-08	1.775E-08	1.330E-08	8.604E-09
NE	144	1.354E-08	1.263E-08	1.178E-08	1.102E-08	1.029E-08	7.511E-09	5.830E-09	3.982E-09
ENE	76	7.614E-09	7.140E-09	6.658E-09	6.214E-09	5.790E-09	4.172E-09	3.201E-09	2.149E-09
E	131	1.187E-08	1.126E-08	1.062E-08	1.002E-08	9.423E-09	6.996E-09	5.477E-09	3.783E-09
ESE	76	6.951E-09	6.407E-09	5.944E-09	5.554E-09	5.188E-09	3.845E-09	3.054E-09	2.173E-09
SE	52	1.031E-08	9.338E-09	8.475E-09	7.734E-09	7.076E-09	4.827E-09	3.589E-09	2.307E-09
SSE	85	3.110E-08	2.628E-08	2.259E-08	1.968E-08	1.734E-08	1.059E-08	7.418E-09	4.711E-09
S	114	6.631E-08	5.337E-08	4.424E-08	3.743E-08	3.225E-08	1.855E-08	1.261E-08	7.341E-09
SSW	154	8.432E-08	6.740E-08	5.561E-08	4.690E-08	4.031E-08	2.304E-08	1.561E-08	9.045E-09
SW	127	4.591E-08	3.793E-08	3.206E-08	2.756E-08	2.403E-08	1.426E-08	9.799E-09	5.737E-09
WSW	100	4.431E-08	3.722E-08	3.188E-08	2.770E-08	2.438E-08	1.489E-08	1.044E-08	6.291E-09
W	128	4.931E-08	4.187E-08	3.611E-08	3.156E-08	2.788E-08	2.042E-08	1.381E-08	7.927E-09
WNW	97	4.009E-08	3.494E-08	2.820E-08	2.507E-08	2.245E-08	1.515E-08	1.104E-08	6.717E-09
NW	67	1.500E-08	1.368E-08	1.246E-08	1.140E-08	1.044E-08	9.172E-09	6.523E-09	4.324E-09
NNW	51	9.777E-09	9.073E-09	8.380E-09	7.754E-09	7.169E-09	5.017E-09	4.013E-09	3.996E-09
AVERAGE	1826	3.023E-08	2.576E-08	2.219E-08	1.954E-08	1.738E-08	1.139E-08	8.143E-09	5.130E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	87	2.205E-09	1.733E-09	1.422E-09	1.204E-09	1.040E-09	1.554E-09	1.376E-09	
NNE	337	6.277E-09	4.901E-09	4.002E-09	3.376E-09	2.902E-09	2.549E-09	2.267E-09	
NE	144	3.009E-09	2.407E-09	1.998E-09	1.709E-09	1.487E-09	1.319E-09	1.183E-09	
ENE	76	1.615E-09	1.356E-09	1.356E-09	1.160E-09	1.010E-09	8.972E-10	8.062E-10	
E	131	2.884E-09	2.322E-09	2.735E-09	2.324E-09	2.011E-09	1.774E-09	1.584E-09	
ESE	76	1.688E-09	1.701E-09	1.417E-09	1.215E-09	1.059E-09	9.396E-10	8.432E-10	
SE	52	1.677E-09	1.624E-09	1.307E-09	1.088E-09	9.254E-10	8.048E-10	7.095E-10	
SSE	85	3.260E-09	2.459E-09	1.964E-09	1.626E-09	1.375E-09	1.192E-09	1.046E-09	
S	114	5.040E-09	3.786E-09	3.017E-09	2.494E-09	2.106E-09	1.822E-09	1.598E-09	
SSW	154	6.199E-09	4.652E-09	3.705E-09	3.061E-09	2.585E-09	2.234E-09	1.959E-09	
SW	127	3.955E-09	2.976E-09	2.371E-09	1.960E-09	1.687E-09	1.458E-09	1.279E-09	
WSW	100	4.405E-09	3.393E-09	2.946E-09	2.434E-09	2.054E-09	1.805E-09	1.581E-09	
W	128	5.401E-09	4.032E-09	3.195E-09	2.630E-09	2.279E-09	1.963E-09	1.716E-09	
WNW	97	4.736E-09	3.870E-09	3.543E-09	3.143E-09	2.650E-09	2.288E-09	2.005E-09	
NW	67	3.005E-09	2.325E-09	1.874E-09	1.683E-09	1.414E-09	1.217E-09	1.064E-09	
NNW	51	2.744E-09	2.060E-09	1.640E-09	1.355E-09	1.143E-09	9.884E-10	8.667E-10	
AVERAGE	1826	3.631E-09	2.850E-09	2.406E-09	2.029E-09	1.733E-09	1.550E-09	1.368E-09	

Table B-1
Undepleted χ/Q Factors for Main Stack

PILGRIM 3RD QUARTER 2000 GENERAL ELEVATED χ/Q 'S -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE χ/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	133	4.657E-10	1.563E-08	1.635E-08	1.291E-08	1.261E-08	1.564E-08	1.747E-08	1.752E-08
NNE	315	6.039E-10	2.084E-08	1.606E-08	1.342E-08	1.582E-08	2.453E-08	2.966E-08	3.095E-08
NE	229	7.569E-10	2.844E-08	1.865E-08	1.497E-08	1.588E-08	2.006E-08	2.205E-08	2.200E-08
ENE	111	2.145E-10	8.431E-09	7.060E-09	6.846E-09	7.398E-09	9.198E-09	1.003E-08	9.990E-09
E	158	4.170E-10	1.681E-08	1.593E-08	1.208E-08	1.104E-08	1.275E-08	1.427E-08	1.455E-08
ESE	103	3.734E-10	1.940E-08	2.667E-08	1.728E-08	1.221E-08	1.056E-08	1.097E-08	1.076E-08
SE	96	5.038E-10	2.109E-08	3.612E-08	2.269E-08	1.695E-08	1.976E-08	1.454E-08	1.449E-08
SSE	104	3.430E-09	9.735E-08	7.793E-08	5.736E-08	7.203E-08	6.524E-08	5.430E-08	4.491E-08
S	117	4.328E-09	7.742E-08	9.776E-08	1.765E-07	1.562E-07	1.639E-07	1.354E-07	1.024E-07
SSW	134	4.851E-09	8.092E-08	1.356E-07	1.711E-07	2.603E-07	2.377E-07	1.535E-07	1.100E-07
SW	91	5.098E-09	5.088E-08	7.521E-08	1.043E-07	1.003E-07	8.914E-08	7.039E-08	5.667E-08
WSW	74	8.647E-10	1.487E-08	4.499E-08	5.443E-08	7.922E-08	7.651E-08	5.830E-08	4.576E-08
W	89	3.435E-09	4.204E-08	5.753E-08	5.864E-08	6.371E-08	6.096E-08	4.709E-08	3.943E-08
WNW	122	9.199E-10	1.212E-08	4.474E-08	4.612E-08	5.662E-08	6.140E-08	5.309E-08	4.757E-08
NW	109	3.068E-10	6.655E-09	5.954E-09	6.378E-09	8.827E-09	1.443E-08	1.694E-08	1.727E-08
NNW	55	3.583E-19	1.602E-11	6.290E-10	1.065E-09	1.656E-09	3.711E-09	5.241E-09	5.904E-09
AVERAGE	2040	1.661E-09	3.206E-08	4.232E-08	4.851E-08	5.567E-08	5.535E-08	4.457E-08	3.689E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	133	1.659E-08	1.549E-08	1.439E-08	1.339E-08	1.243E-08	8.801E-09	6.637E-09	4.317E-09
NNE	315	3.000E-08	2.854E-08	2.693E-08	2.539E-08	2.384E-08	1.746E-08	1.345E-08	9.010E-09
NE	229	2.086E-08	1.954E-08	1.824E-08	1.706E-08	1.592E-08	1.154E-08	8.883E-09	5.986E-09
ENE	111	9.474E-09	8.889E-09	8.310E-09	7.786E-09	7.280E-09	5.320E-09	4.128E-09	2.818E-09
E	158	1.401E-08	1.332E-08	1.259E-08	1.191E-08	1.122E-08	8.364E-09	6.550E-09	4.513E-09
ESE	103	1.015E-08	9.513E-09	8.901E-09	8.349E-09	7.815E-09	5.745E-09	4.484E-09	3.091E-09
SE	96	1.371E-08	1.283E-08	1.197E-08	1.119E-08	1.044E-08	7.546E-09	5.793E-09	3.884E-09
SSE	104	3.766E-08	3.215E-08	2.787E-08	2.445E-08	2.168E-08	1.355E-08	9.627E-09	6.432E-09
S	117	7.931E-08	6.388E-08	5.300E-08	4.490E-08	3.875E-08	2.241E-08	1.529E-08	8.940E-09
SSW	134	8.417E-08	6.726E-08	5.547E-08	4.679E-08	4.024E-08	2.299E-08	1.558E-08	9.051E-09
SW	91	4.667E-08	3.933E-08	3.377E-08	2.940E-08	2.592E-08	1.592E-08	1.119E-08	6.752E-09
WSW	74	3.707E-08	3.087E-08	2.627E-08	2.270E-08	1.990E-08	1.206E-08	8.409E-09	5.013E-09
W	89	3.321E-08	2.843E-08	2.470E-08	2.173E-08	1.931E-08	1.665E-08	1.150E-08	6.801E-09
WNW	122	4.203E-08	3.737E-08	3.069E-08	2.768E-08	2.512E-08	1.817E-08	1.378E-08	8.721E-09
NW	109	1.651E-08	1.556E-08	1.458E-08	1.367E-08	1.279E-08	1.358E-08	9.989E-09	7.306E-09
NNW	55	5.970E-09	5.857E-09	5.656E-09	5.436E-09	5.180E-09	3.956E-09	3.450E-09	5.285E-09
AVERAGE	2040	3.109E-08	2.680E-08	2.333E-08	2.074E-08	1.861E-08	1.275E-08	9.296E-09	6.120E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	133	3.151E-09	2.459E-09	2.006E-09	1.691E-09	1.452E-09	1.731E-09	1.523E-09
NNE	315	6.705E-09	5.302E-09	4.366E-09	3.707E-09	3.205E-09	2.828E-09	2.525E-09
NE	229	4.490E-09	3.576E-09	2.959E-09	2.525E-09	2.193E-09	1.943E-09	1.741E-09
ENE	111	2.137E-09	1.805E-09	1.801E-09	1.540E-09	1.340E-09	1.189E-09	1.067E-09
E	158	3.427E-09	2.750E-09	3.172E-09	2.690E-09	2.323E-09	2.047E-09	1.825E-09
ESE	103	2.355E-09	2.319E-09	1.923E-09	1.643E-09	1.429E-09	1.266E-09	1.135E-09
SE	96	2.893E-09	3.033E-09	2.457E-09	2.058E-09	1.758E-09	1.534E-09	1.355E-09
SSE	104	4.504E-09	3.426E-09	2.752E-09	2.290E-09	1.945E-09	1.690E-09	1.489E-09
S	117	6.145E-09	4.619E-09	3.683E-09	3.045E-09	2.570E-09	2.219E-09	1.944E-09
SSW	134	6.206E-09	4.660E-09	3.716E-09	3.073E-09	2.597E-09	2.246E-09	1.971E-09
SW	91	4.733E-09	3.600E-09	2.891E-09	2.404E-09	2.120E-09	1.838E-09	1.615E-09
WSW	74	3.497E-09	2.707E-09	2.527E-09	2.088E-09	1.763E-09	1.595E-09	1.397E-09
W	89	4.717E-09	3.566E-09	2.852E-09	2.365E-09	2.235E-09	1.931E-09	1.693E-09
WNW	122	6.288E-09	5.369E-09	5.157E-09	4.624E-09	3.903E-09	3.369E-09	2.951E-09
NW	109	5.185E-09	4.130E-09	3.381E-09	3.228E-09	2.718E-09	2.342E-09	2.047E-09
NNW	55	3.708E-09	2.825E-09	2.274E-09	1.895E-09	1.611E-09	1.400E-09	1.233E-09
AVERAGE	2040	4.384E-09	3.509E-09	2.995E-09	2.554E-09	2.198E-09	1.948E-09	1.719E-09

Table B-1
Undepleted χ/Q Factors for Main Stack

PILGRIM 4TH QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	51	2.388E-18	5.436E-11	1.871E-09	2.856E-09	3.457E-09	5.094E-09	6.150E-09	6.491E-09
NNE	122	5.111E-11	2.514E-09	5.814E-09	7.639E-09	9.400E-09	1.314E-08	1.468E-08	1.465E-08
NE	164	4.286E-10	1.520E-08	1.056E-08	9.508E-09	1.120E-08	1.551E-08	1.742E-08	1.753E-08
ENE	254	5.432E-10	2.202E-08	2.967E-08	2.274E-08	2.117E-08	2.447E-08	2.621E-08	2.561E-08
E	349	1.152E-09	3.677E-08	2.926E-08	2.355E-08	2.601E-08	3.379E-08	3.631E-08	3.537E-08
ESE	293	1.644E-09	5.783E-08	3.702E-08	2.824E-08	3.028E-08	3.620E-08	3.655E-08	3.416E-08
SE	204	1.368E-09	4.252E-08	2.451E-08	1.934E-08	2.324E-08	3.219E-08	2.540E-08	2.381E-08
SSE	138	1.148E-09	3.597E-08	3.470E-08	6.743E-08	7.919E-08	6.672E-08	5.384E-08	4.386E-08
S	153	2.273E-09	5.024E-08	9.672E-08	1.948E-07	1.668E-07	1.565E-07	1.286E-07	9.878E-08
SSW	71	2.431E-09	5.733E-08	6.215E-08	9.172E-08	1.486E-07	1.173E-07	7.513E-08	5.361E-08
SW	58	4.537E-10	8.472E-09	4.165E-08	7.299E-08	6.763E-08	5.522E-08	4.135E-08	3.210E-08
WSW	54	8.617E-10	7.860E-09	2.386E-08	3.280E-08	4.669E-08	4.488E-08	3.469E-08	2.752E-08
W	60	5.569E-10	9.445E-09	2.023E-08	2.994E-08	3.602E-08	3.549E-08	2.726E-08	2.255E-08
WNW	75	1.568E-10	2.138E-09	7.125E-09	1.877E-08	2.997E-08	3.580E-08	3.044E-08	2.665E-08
NW	86	5.139E-13	6.778E-10	6.097E-09	8.586E-09	1.049E-08	1.455E-08	1.612E-08	1.593E-08
NNW	60	3.118E-35	4.076E-17	1.894E-11	3.545E-10	1.249E-09	3.876E-09	5.667E-09	6.394E-09
AVERAGE	2192	8.168E-10	2.181E-08	2.695E-08	3.945E-08	4.446E-08	4.317E-08	3.599E-08	3.031E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	51	6.354E-09	6.099E-09	5.798E-09	5.506E-09	5.201E-09	3.883E-09	3.024E-09	2.054E-09
NNE	122	1.382E-08	1.286E-08	1.192E-08	1.107E-08	1.028E-08	7.281E-09	5.504E-09	3.600E-09
NE	164	1.669E-08	1.567E-08	1.465E-08	1.371E-08	1.280E-08	9.275E-09	7.116E-09	4.752E-09
ENE	254	2.387E-08	2.202E-08	2.027E-08	1.872E-08	1.729E-08	1.209E-08	9.076E-09	5.887E-09
E	349	3.291E-08	3.031E-08	2.786E-08	2.571E-08	2.372E-08	1.659E-08	1.247E-08	8.108E-09
ESE	293	3.094E-08	2.789E-08	2.520E-08	2.291E-08	2.088E-08	1.409E-08	1.038E-08	6.582E-09
SE	204	2.162E-08	1.957E-08	1.776E-08	1.623E-08	1.487E-08	1.030E-08	7.766E-09	5.130E-09
SSE	138	3.639E-08	3.083E-08	2.658E-08	2.321E-08	2.050E-08	1.267E-08	8.936E-09	5.860E-09
S	153	7.676E-08	6.197E-08	5.147E-08	4.363E-08	3.766E-08	2.173E-08	1.480E-08	8.650E-09
SSW	71	4.103E-08	3.276E-08	2.698E-08	2.269E-08	1.945E-08	1.100E-08	7.411E-09	4.281E-09
SW	58	2.572E-08	2.121E-08	1.789E-08	1.534E-08	1.336E-08	7.888E-09	5.390E-09	3.123E-09
WSW	54	2.239E-08	1.868E-08	1.590E-08	1.375E-08	1.205E-08	7.266E-09	5.034E-09	2.969E-09
W	60	1.876E-08	1.587E-08	1.364E-08	1.187E-08	1.045E-08	7.347E-09	4.913E-09	2.772E-09
WNW	75	2.301E-08	2.004E-08	1.762E-08	1.564E-08	1.398E-08	8.494E-09	6.713E-09	4.010E-09
NW	86	1.490E-08	1.378E-08	1.270E-08	1.174E-08	1.085E-08	1.002E-08	7.166E-09	4.809E-09
NNW	60	6.435E-09	6.277E-09	6.026E-09	5.760E-09	5.461E-09	4.092E-09	3.470E-09	4.041E-09
AVERAGE	2192	2.573E-08	2.224E-08	1.952E-08	1.734E-08	1.555E-08	1.025E-08	7.448E-09	4.789E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	51	1.540E-09	1.223E-09	1.010E-09	8.596E-10	7.445E-10	9.873E-10	8.694E-10
NNE	122	2.640E-09	2.067E-09	1.691E-09	1.428E-09	1.228E-09	1.080E-09	9.605E-10
NE	164	3.532E-09	2.791E-09	2.297E-09	1.950E-09	1.686E-09	1.487E-09	1.327E-09
ENE	254	4.303E-09	3.466E-09	3.123E-09	2.625E-09	2.250E-09	1.971E-09	1.749E-09
E	349	5.943E-09	4.656E-09	4.782E-09	4.014E-09	3.436E-09	3.007E-09	2.665E-09
ESE	293	4.757E-09	4.102E-09	3.320E-09	2.781E-09	2.377E-09	2.077E-09	1.839E-09
SE	204	3.821E-09	4.216E-09	3.428E-09	2.880E-09	2.467E-09	2.157E-09	1.910E-09
SSE	138	4.075E-09	3.085E-09	2.469E-09	2.048E-09	1.734E-09	1.503E-09	1.321E-09
S	153	5.948E-09	4.474E-09	3.571E-09	2.956E-09	2.500E-09	2.165E-09	1.901E-09
SSW	71	2.926E-09	2.192E-09	1.743E-09	1.440E-09	1.215E-09	1.052E-09	9.235E-10
SW	58	2.137E-09	1.598E-09	1.268E-09	1.044E-09	8.960E-10	7.725E-10	6.756E-10
WSW	54	2.052E-09	1.566E-09	1.352E-09	1.111E-09	9.324E-10	8.161E-10	7.115E-10
W	60	1.866E-09	1.381E-09	1.086E-09	8.891E-10	7.590E-10	6.522E-10	5.686E-10
WNW	75	2.785E-09	2.201E-09	1.876E-09	1.582E-09	1.326E-09	1.141E-09	9.952E-10
NW	86	3.352E-09	2.598E-09	2.095E-09	1.874E-09	1.576E-09	1.359E-09	1.188E-09
NNW	60	2.792E-09	2.104E-09	1.680E-09	1.391E-09	1.176E-09	1.018E-09	8.929E-10
AVERAGE	2192	3.404E-09	2.732E-09	2.299E-09	1.929E-09	1.644E-09	1.453E-09	1.281E-09

Table B-1
Undepleted χ/Q Factors for Main Stack

PILGRIM 2000 ANNUAL GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	364	5.481E-10	1.803E-08	1.253E-08	9.215E-09	8.915E-09	1.046E-08	1.136E-08	1.130E-08
NNE	1004	1.085E-09	3.196E-08	2.231E-08	1.768E-08	1.840E-08	2.322E-08	2.566E-08	2.560E-08
NE	680	6.729E-10	2.390E-08	1.750E-08	1.359E-08	1.343E-08	1.585E-08	1.716E-08	1.705E-08
ENE	570	5.674E-10	2.015E-08	1.535E-08	1.114E-08	1.092E-08	1.342E-08	1.476E-08	1.469E-08
E	874	1.396E-09	4.334E-08	2.356E-08	1.610E-08	1.657E-08	2.025E-08	2.167E-08	2.125E-08
ESE	745	1.481E-09	4.844E-08	2.955E-08	2.091E-08	2.021E-08	2.195E-08	2.182E-08	2.042E-08
SE	566	1.548E-09	4.597E-08	3.135E-08	2.169E-08	2.038E-08	2.454E-08	1.933E-08	1.831E-08
SSE	437	1.813E-09	5.568E-08	4.041E-08	5.732E-08	6.803E-08	5.877E-08	4.813E-08	3.959E-08
S	459	3.351E-09	6.613E-08	7.920E-08	1.519E-07	1.330E-07	1.340E-07	1.107E-07	8.429E-08
SSW	445	5.767E-09	9.426E-08	9.586E-08	1.253E-07	2.026E-07	1.858E-07	1.199E-07	8.599E-08
SW	361	5.437E-09	4.512E-08	5.983E-08	9.353E-08	8.745E-08	7.329E-08	5.584E-08	4.392E-08
WSW	299	5.968E-09	4.414E-08	4.407E-08	4.752E-08	6.347E-08	6.051E-08	4.668E-08	3.701E-08
W	321	5.029E-09	5.781E-08	4.613E-08	4.727E-08	5.276E-08	5.009E-08	3.835E-08	3.187E-08
WNW	341	1.734E-09	2.632E-08	2.906E-08	2.912E-08	3.740E-08	4.070E-08	3.434E-08	3.027E-08
NW	316	5.047E-10	1.215E-08	8.810E-09	8.009E-09	9.481E-09	1.312E-08	1.449E-08	1.432E-08
NNW	213	1.258E-10	5.577E-09	3.768E-09	2.924E-09	3.365E-09	5.294E-09	6.515E-09	6.875E-09
AVERAGE	7995	2.314E-09	3.994E-08	3.496E-08	4.208E-08	4.790E-08	4.695E-08	3.792E-08	3.142E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	364	1.069E-08	9.991E-09	9.300E-09	8.677E-09	8.075E-09	5.784E-09	4.407E-09	2.917E-09
NNE	1004	2.421E-08	2.261E-08	2.104E-08	1.961E-08	1.825E-08	1.304E-08	9.923E-09	6.557E-09
NE	680	1.613E-08	1.511E-08	1.411E-08	1.320E-08	1.233E-08	8.951E-09	6.901E-09	4.658E-09
ENE	570	1.387E-08	1.293E-08	1.201E-08	1.118E-08	1.039E-08	7.417E-09	5.647E-09	3.742E-09
E	874	1.994E-08	1.852E-08	1.717E-08	1.597E-08	1.483E-08	1.059E-08	8.089E-09	5.391E-09
ESE	745	1.861E-08	1.691E-08	1.541E-08	1.413E-08	1.297E-08	8.985E-09	6.759E-09	4.433E-09
SE	566	1.678E-08	1.531E-08	1.398E-08	1.284E-08	1.181E-08	8.211E-09	6.181E-09	4.053E-09
SSE	437	3.311E-08	2.822E-08	2.445E-08	2.144E-08	1.901E-08	1.188E-08	8.442E-09	5.645E-09
S	459	6.537E-08	5.273E-08	4.379E-08	3.713E-08	3.206E-08	1.854E-08	1.266E-08	7.420E-09
SSW	445	6.593E-08	5.275E-08	4.356E-08	3.679E-08	3.165E-08	1.812E-08	1.231E-08	7.181E-09
SW	361	3.560E-08	2.964E-08	2.521E-08	2.178E-08	1.908E-08	1.150E-08	7.984E-09	4.740E-09
WSW	299	3.018E-08	2.524E-08	2.155E-08	1.867E-08	1.640E-08	9.971E-09	6.966E-09	4.168E-09
W	321	2.669E-08	2.273E-08	1.967E-08	1.724E-08	1.526E-08	1.208E-08	8.271E-09	4.833E-09
WNW	341	2.639E-08	2.320E-08	2.058E-08	1.842E-08	1.659E-08	1.053E-08	8.641E-09	5.389E-09
NW	316	1.344E-08	1.247E-08	1.154E-08	1.071E-08	9.922E-09	9.662E-09	7.016E-09	4.943E-09
NNW	213	6.712E-09	6.412E-09	6.066E-09	5.731E-09	5.387E-09	3.960E-09	3.328E-09	4.221E-09
AVERAGE	7995	2.648E-08	2.280E-08	1.997E-08	1.772E-08	1.588E-08	1.058E-08	7.720E-09	5.018E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	364	2.158E-09	1.701E-09	1.398E-09	1.186E-09	1.024E-09	1.405E-09	1.241E-09
NNE	1004	4.843E-09	3.811E-09	3.128E-09	2.650E-09	2.287E-09	2.014E-09	1.796E-09
NE	680	3.492E-09	2.779E-09	2.298E-09	1.959E-09	1.700E-09	1.505E-09	1.347E-09
ENE	570	2.777E-09	2.279E-09	2.138E-09	1.810E-09	1.562E-09	1.376E-09	1.227E-09
E	874	4.016E-09	3.182E-09	3.424E-09	2.889E-09	2.485E-09	2.182E-09	1.940E-09
ESE	745	3.276E-09	2.980E-09	2.438E-09	2.061E-09	1.775E-09	1.560E-09	1.389E-09
SE	566	2.990E-09	3.062E-09	2.479E-09	2.076E-09	1.773E-09	1.547E-09	1.368E-09
SSE	437	3.950E-09	3.003E-09	2.411E-09	2.005E-09	1.702E-09	1.478E-09	1.301E-09
S	459	5.109E-09	3.846E-09	3.072E-09	2.543E-09	2.151E-09	1.861E-09	1.633E-09
SSW	445	4.935E-09	3.713E-09	2.965E-09	2.455E-09	2.077E-09	1.798E-09	1.579E-09
SW	361	3.294E-09	2.492E-09	1.993E-09	1.652E-09	1.445E-09	1.251E-09	1.099E-09
WSW	299	2.910E-09	2.242E-09	1.994E-09	1.646E-09	1.389E-09	1.231E-09	1.077E-09
W	321	3.331E-09	2.507E-09	1.999E-09	1.653E-09	1.516E-09	1.309E-09	1.147E-09
WNW	341	3.861E-09	3.276E-09	3.188E-09	2.911E-09	2.460E-09	2.128E-09	1.867E-09
NW	316	3.487E-09	2.753E-09	2.244E-09	2.114E-09	1.780E-09	1.535E-09	1.343E-09
NNW	213	2.937E-09	2.225E-09	1.784E-09	1.482E-09	1.256E-09	1.089E-09	9.578E-10
AVERAGE	7995	3.585E-09	2.866E-09	2.434E-09	2.068E-09	1.774E-09	1.579E-09	1.394E-09

Table B-2
Depleted χ/Q Factors for Main Stack

PILGRIM 1ST QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE χ/Q AFTER DEPLETION (MET. AND ATOMIC ENERGY 1968 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	93	1.049E-09	3.582E-08	1.641E-08	9.234E-09	8.335E-09	8.742E-09	8.972E-09	8.692E-09
NNE	230	1.849E-09	4.903E-08	2.391E-08	1.746E-08	1.741E-08	1.970E-08	2.075E-08	2.031E-08
NE	143	8.747E-10	2.875E-08	1.603E-08	1.118E-08	1.090E-08	1.275E-08	1.373E-08	1.358E-08
ENE	129	1.388E-09	4.383E-08	1.523E-08	7.686E-09	8.196E-09	1.141E-08	1.318E-08	1.346E-08
E	236	3.344E-09	9.913E-08	3.706E-08	1.997E-08	1.983E-08	2.187E-08	2.182E-08	2.059E-08
ESE	273	3.016E-09	8.752E-08	3.721E-08	2.484E-08	2.636E-08	2.983E-08	2.916E-08	2.690E-08
SE	214	4.271E-09	1.219E-07	6.252E-08	3.372E-08	2.908E-08	3.177E-08	2.415E-08	2.248E-08
SSE	110	2.386E-09	8.298E-08	4.421E-08	4.852E-08	5.297E-08	4.420E-08	3.656E-08	3.056E-08
S	75	2.266E-09	5.017E-08	2.463E-08	5.045E-08	4.843E-08	6.485E-08	6.021E-08	4.673E-08
SSW	86	5.898E-09	8.785E-08	4.750E-08	6.175E-08	1.236E-07	1.551E-07	1.012E-07	7.277E-08
SW	85	3.350E-09	4.383E-08	3.976E-08	6.780E-08	6.389E-08	5.302E-08	3.969E-08	3.082E-08
WSW	71	1.114E-08	7.164E-08	3.764E-08	3.288E-08	3.966E-08	3.650E-08	2.798E-08	2.211E-08
W	44	9.006E-09	9.461E-08	2.741E-08	1.493E-08	1.518E-08	1.375E-08	1.038E-08	8.611E-09
WNW	47	3.422E-09	5.934E-08	3.126E-08	1.560E-08	1.476E-08	1.260E-08	9.928E-09	8.563E-09
NW	54	1.280E-09	3.244E-08	1.236E-08	6.740E-09	6.715E-09	7.536E-09	7.726E-09	7.460E-09
NNW	47	3.065E-10	1.603E-08	8.303E-09	4.353E-09	3.919E-09	4.606E-09	5.078E-09	5.093E-09
AVERAGE	1937	3.428E-09	6.280E-08	3.009E-08	2.669E-08	3.058E-08	3.302E-08	2.691E-08	2.242E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	93	8.126E-09	7.543E-09	6.991E-09	6.501E-09	6.024E-09	4.245E-09	3.190E-09	2.052E-09
NNE	230	1.903E-08	1.770E-08	1.642E-08	1.528E-08	1.418E-08	1.002E-08	7.537E-09	4.864E-09
NE	143	1.280E-08	1.195E-08	1.112E-08	1.037E-08	9.650E-09	6.872E-09	5.195E-09	3.362E-09
ENE	129	1.290E-08	1.215E-08	1.136E-08	1.062E-08	9.874E-09	6.976E-09	5.217E-09	3.319E-09
E	236	1.891E-08	1.728E-08	1.581E-08	1.454E-08	1.335E-08	9.180E-09	6.817E-09	4.337E-09
ESE	273	2.426E-08	2.183E-08	1.972E-08	1.792E-08	1.631E-08	1.091E-08	7.965E-09	4.947E-09
SE	214	2.037E-08	1.841E-08	1.668E-08	1.520E-08	1.385E-08	9.251E-09	6.716E-09	4.125E-09
SSE	110	2.593E-08	2.236E-08	1.954E-08	1.724E-08	1.535E-08	9.614E-09	6.733E-09	4.349E-09
S	75	3.616E-08	2.910E-08	2.411E-08	2.042E-08	1.759E-08	9.941E-09	6.608E-09	3.667E-09
SSW	86	5.558E-08	4.427E-08	3.637E-08	3.059E-08	2.618E-08	1.433E-08	9.233E-09	4.819E-09
SW	85	2.481E-08	2.055E-08	1.740E-08	1.496E-08	1.304E-08	7.693E-09	5.231E-09	2.970E-09
WSW	71	1.798E-08	1.499E-08	1.276E-08	1.102E-08	9.642E-09	5.734E-09	3.919E-09	2.245E-09
W	44	7.264E-09	6.241E-09	5.451E-09	4.824E-09	4.292E-09	4.345E-09	3.050E-09	1.789E-09
WNW	47	7.452E-09	6.572E-09	5.866E-09	5.291E-09	4.781E-09	3.187E-09	2.797E-09	1.844E-09
NW	54	6.965E-09	6.469E-09	6.001E-09	5.583E-09	5.175E-09	5.172E-09	3.721E-09	2.576E-09
NNW	47	4.850E-09	4.558E-09	4.263E-09	3.992E-09	3.721E-09	2.663E-09	2.195E-09	2.801E-09
AVERAGE	1937	1.896E-08	1.637E-08	1.437E-08	1.277E-08	1.144E-08	7.508E-09	5.383E-09	3.379E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	93	1.468E-09	1.114E-09	8.789E-10	7.162E-10	5.946E-10	7.744E-10	6.491E-10
NNE	230	3.488E-09	2.657E-09	2.107E-09	1.724E-09	1.435E-09	1.219E-09	1.049E-09
NE	143	2.404E-09	1.820E-09	1.433E-09	1.165E-09	9.646E-10	8.162E-10	6.998E-10
ENE	129	2.352E-09	1.823E-09	1.549E-09	1.243E-09	1.016E-09	8.503E-10	7.210E-10
E	236	3.097E-09	2.358E-09	2.174E-09	1.754E-09	1.443E-09	1.215E-09	1.037E-09
ESE	273	3.480E-09	2.890E-09	2.252E-09	1.817E-09	1.495E-09	1.259E-09	1.075E-09
SE	214	2.869E-09	2.413E-09	1.853E-09	1.477E-09	1.203E-09	1.005E-09	8.521E-10
SSE	110	2.846E-09	2.028E-09	1.532E-09	1.206E-09	9.710E-10	8.026E-10	6.748E-10
S	75	2.377E-09	1.688E-09	1.275E-09	1.001E-09	8.027E-10	6.596E-10	5.511E-10
SSW	86	2.946E-09	1.987E-09	1.438E-09	1.091E-09	8.506E-10	6.837E-10	5.610E-10
SW	85	1.967E-09	1.414E-09	1.072E-09	8.436E-10	6.834E-10	5.596E-10	4.654E-10
WSW	71	1.499E-09	1.099E-09	8.696E-10	6.849E-10	5.518E-10	4.385E-10	3.676E-10
W	44	1.192E-09	8.514E-10	6.388E-10	4.976E-10	3.278E-10	2.354E-10	2.009E-10
WNW	47	1.354E-09	1.250E-09	1.120E-09	4.568E-10	3.260E-10	2.665E-10	2.235E-10
NW	54	1.716E-09	1.271E-09	9.638E-10	4.817E-10	3.745E-10	3.007E-10	2.465E-10
NNW	47	1.805E-09	1.265E-09	9.380E-10	7.223E-10	5.677E-10	4.573E-10	3.743E-10
AVERAGE	1937	2.304E-09	1.746E-09	1.381E-09	1.055E-09	8.505E-10	7.214E-10	6.092E-10

Table B-2
Depleted χ/Q Factors for Main Stack

PILGRIM 2ND QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE

GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (MET. AND ATOMIC ENERGY 1968 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	87	7.665E-10	2.338E-08	1.682E-08	1.260E-08	1.186E-08	1.280E-08	1.314E-08	1.262E-08
NNE	337	2.052E-09	6.157E-08	4.728E-08	3.457E-08	3.291E-08	3.730E-08	3.914E-08	3.783E-08
NE	144	6.584E-10	2.410E-08	2.600E-08	1.938E-08	1.589E-08	1.467E-08	1.480E-08	1.430E-08
ENE	76	1.201E-10	5.818E-09	7.473E-09	5.611E-09	5.369E-09	6.919E-09	7.841E-09	7.887E-09
E	131	7.161E-10	2.158E-08	1.077E-08	7.428E-09	7.841E-09	1.048E-08	1.199E-08	1.222E-08
ESE	76	8.959E-10	2.806E-08	1.552E-08	1.186E-08	1.037E-08	9.028E-09	8.217E-09	7.506E-09
SE	52	4.120E-10	1.072E-08	1.344E-08	1.649E-08	1.484E-08	1.680E-08	1.191E-08	1.109E-08
SSE	85	2.883E-09	7.888E-08	4.970E-08	5.424E-08	6.575E-08	5.670E-08	4.556E-08	3.672E-08
S	114	6.354E-09	1.196E-07	9.490E-08	1.800E-07	1.557E-07	1.446E-07	1.115E-07	8.207E-08
SSW	154	1.173E-08	1.767E-07	1.427E-07	1.815E-07	2.852E-07	2.367E-07	1.495E-07	1.051E-07
SW	127	1.553E-08	9.472E-08	1.009E-07	1.330E-07	1.213E-07	9.743E-08	7.217E-08	5.541E-08
WSW	100	1.484E-08	1.120E-07	8.413E-08	7.266E-08	9.076E-08	8.574E-08	6.637E-08	5.260E-08
W	128	7.957E-09	9.425E-08	9.539E-08	9.113E-08	1.001E-07	9.311E-08	7.022E-08	5.749E-08
WNW	97	2.744E-09	3.610E-08	4.232E-08	4.466E-08	5.785E-08	6.277E-08	5.244E-08	4.534E-08
NW	67	5.083E-10	1.048E-08	1.137E-08	1.338E-08	1.183E-08	1.569E-08	1.670E-08	1.600E-08
NNW	51	2.256E-10	7.369E-09	6.902E-09	6.512E-09	7.163E-09	9.406E-09	1.033E-08	1.020E-08
AVERAGE	1826	4.275E-09	5.659E-08	4.785E-08	5.512E-08	6.216E-08	5.689E-08	4.387E-08	3.527E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	87	1.167E-08	1.069E-08	9.770E-09	8.961E-09	8.210E-09	5.508E-09	3.967E-09	2.378E-09
NNE	337	3.500E-08	3.209E-08	2.937E-08	2.698E-08	2.476E-08	1.681E-08	1.226E-08	7.524E-09
NE	144	1.335E-08	1.240E-08	1.151E-08	1.073E-08	9.974E-09	7.097E-09	5.369E-09	3.486E-09
ENE	76	7.474E-09	6.967E-09	6.457E-09	5.989E-09	5.546E-09	3.872E-09	2.884E-09	1.836E-09
E	131	1.171E-08	1.107E-08	1.040E-08	9.777E-09	9.152E-09	6.637E-09	5.067E-09	3.317E-09
ESE	76	6.840E-09	6.287E-09	5.817E-09	5.419E-09	5.045E-09	3.673E-09	2.860E-09	1.948E-09
SE	52	1.000E-08	8.986E-09	8.083E-09	7.309E-09	6.625E-09	4.311E-09	3.064E-09	1.816E-09
SSE	85	3.010E-08	2.518E-08	2.143E-08	1.847E-08	1.610E-08	9.327E-09	6.204E-09	3.495E-09
S	114	6.245E-08	4.942E-08	4.028E-08	3.349E-08	2.836E-08	1.498E-08	9.413E-09	4.771E-09
SSW	154	7.911E-08	6.216E-08	5.042E-08	4.180E-08	3.531E-08	1.858E-08	1.167E-08	5.923E-09
SW	127	4.391E-08	3.580E-08	2.984E-08	2.530E-08	2.175E-08	1.204E-08	7.747E-09	4.028E-09
WSW	100	4.269E-08	3.545E-08	3.000E-08	2.575E-08	2.237E-08	1.278E-08	8.367E-09	4.405E-09
W	128	4.742E-08	3.976E-08	3.385E-08	2.919E-08	2.544E-08	1.649E-08	1.031E-08	5.154E-09
WNW	97	3.879E-08	3.344E-08	2.669E-08	2.345E-08	2.076E-08	1.314E-08	9.012E-09	4.942E-09
NW	67	1.463E-08	1.323E-08	1.195E-08	1.084E-08	9.843E-09	8.092E-09	5.466E-09	3.185E-09
NNW	51	9.546E-09	8.786E-09	8.043E-09	7.375E-09	6.755E-09	4.500E-09	3.405E-09	2.844E-09
AVERAGE	1826	2.904E-08	2.448E-08	2.087E-08	1.818E-08	1.600E-08	9.865E-09	6.691E-09	3.816E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	87	1.620E-09	1.188E-09	9.148E-10	7.318E-10	5.986E-10	7.619E-10	6.322E-10
NNE	337	5.217E-09	3.882E-09	3.030E-09	2.450E-09	2.023E-09	1.710E-09	1.467E-09
NE	144	2.505E-09	1.908E-09	1.509E-09	1.232E-09	1.023E-09	8.682E-10	7.460E-10
ENE	76	1.315E-09	1.054E-09	1.007E-09	8.239E-10	6.863E-10	5.834E-10	5.019E-10
E	131	2.386E-09	1.809E-09	1.863E-09	1.488E-09	1.212E-09	1.011E-09	8.567E-10
ESE	76	1.442E-09	1.331E-09	1.044E-09	8.445E-10	6.942E-10	5.820E-10	4.942E-10
SE	52	1.226E-09	1.038E-09	7.736E-10	5.998E-10	4.756E-10	3.873E-10	3.207E-10
SSE	85	2.202E-09	1.524E-09	1.122E-09	8.625E-10	6.791E-10	5.503E-10	4.539E-10
S	114	2.918E-09	1.989E-09	1.458E-09	1.121E-09	8.879E-10	7.256E-10	6.046E-10
SSW	154	3.637E-09	2.487E-09	1.827E-09	1.409E-09	1.117E-09	9.144E-10	7.633E-10
SW	127	2.509E-09	1.729E-09	1.277E-09	9.888E-10	7.812E-10	6.417E-10	5.377E-10
WSW	100	2.717E-09	1.836E-09	1.250E-09	9.380E-10	7.268E-10	5.555E-10	4.578E-10
W	128	3.122E-09	2.105E-09	1.526E-09	1.162E-09	8.496E-10	6.483E-10	5.398E-10
WNW	97	3.174E-09	2.308E-09	1.701E-09	1.041E-09	7.784E-10	6.257E-10	5.132E-10
NW	67	1.997E-09	1.375E-09	9.985E-10	5.617E-10	4.370E-10	3.514E-10	2.882E-10
NNW	51	1.771E-09	1.215E-09	8.888E-10	6.781E-10	5.296E-10	4.253E-10	3.474E-10
AVERAGE	1826	2.485E-09	1.799E-09	1.387E-09	1.058E-09	8.437E-10	7.089E-10	5.953E-10

Table B-2
Depleted χ/Q Factors for Main Stack

PILGRIM 3RD QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE χ/Q AFTER DEPLETION (MFT. AND ATOMIC ENERGY 1968 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	133	4.657E-10	1.562E-08	1.632E-08	1.287E-08	1.256E-08	1.557E-08	1.734E-08	1.733E-08
NNE	315	6.039E-10	2.083E-08	1.602E-08	1.338E-08	1.577E-08	2.445E-08	2.951E-08	3.071E-08
NE	229	7.569E-10	2.842E-08	1.860E-08	1.492E-08	1.581E-08	1.996E-08	2.189E-08	2.178E-08
ENE	111	2.145E-10	8.424E-09	7.043E-09	6.821E-09	7.363E-09	9.142E-09	9.942E-09	9.873E-09
E	158	4.170E-10	1.680E-08	1.588E-08	1.202E-08	1.098E-08	1.267E-08	1.416E-08	1.438E-08
ESE	103	3.734E-10	1.939E-08	2.657E-08	1.715E-08	1.210E-08	1.048E-08	1.087E-08	1.063E-08
SE	96	5.038E-10	2.108E-08	3.600E-08	2.253E-08	1.682E-08	1.964E-08	1.441E-08	1.432E-08
SSE	104	3.430E-09	9.729E-08	7.759E-08	5.719E-08	7.181E-08	6.478E-08	5.352E-08	4.387E-08
S	117	4.328E-09	7.736E-08	9.752E-08	1.761E-07	1.556E-07	1.620E-07	1.319E-07	9.807E-08
SSW	134	4.851E-09	8.085E-08	1.353E-07	1.707E-07	2.591E-07	2.339E-07	1.490E-07	1.052E-07
SW	91	5.098E-09	5.082E-08	7.496E-08	1.040E-07	9.982E-08	8.815E-08	6.892E-08	5.482E-08
WSW	74	8.647E-10	1.485E-08	4.489E-08	5.431E-08	7.896E-08	7.574E-08	5.715E-08	4.433E-08
W	89	3.435E-09	4.200E-08	5.739E-08	5.848E-08	6.348E-08	6.042E-08	4.631E-08	3.839E-08
WNW	122	9.199E-10	1.211E-08	4.459E-08	4.589E-08	5.634E-08	6.095E-08	5.243E-08	4.669E-08
NW	109	3.068E-10	6.649E-09	5.937E-09	6.357E-09	8.799E-09	1.437E-08	1.681E-08	1.705E-08
NNW	55	3.583E-19	1.602E-11	6.286E-10	1.062E-09	1.651E-09	3.697E-09	5.206E-09	5.839E-09
AVERAGE	2040	1.661E-09	3.203E-08	4.220E-08	4.836E-08	5.543E-08	5.474E-08	4.371E-08	3.583E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	133	1.634E-08	1.517E-08	1.401E-08	1.295E-08	1.195E-08	8.180E-09	5.959E-09	3.629E-09
NNE	315	2.965E-08	2.810E-08	2.639E-08	2.476E-08	2.313E-08	1.649E-08	1.235E-08	7.838E-09
NE	229	2.057E-08	1.919E-08	1.784E-08	1.661E-08	1.542E-08	1.090E-08	8.179E-09	5.246E-09
ENE	111	9.324E-09	8.708E-09	8.103E-09	7.554E-09	7.027E-09	4.996E-09	3.773E-09	2.447E-09
E	158	1.380E-08	1.306E-08	1.228E-08	1.155E-08	1.082E-08	7.822E-09	5.942E-09	3.868E-09
ESE	103	9.988E-09	9.323E-09	8.684E-09	8.107E-09	7.551E-09	5.406E-09	4.107E-09	2.686E-09
SE	96	1.348E-08	1.255E-08	1.165E-08	1.082E-08	1.003E-08	7.010E-09	5.200E-09	3.257E-09
SSE	104	3.642E-08	3.078E-08	2.640E-08	2.291E-08	2.010E-08	1.191E-08	8.048E-09	4.817E-09
S	117	7.458E-08	5.897E-08	4.800E-08	3.988E-08	3.375E-08	1.772E-08	1.102E-08	5.439E-09
SSW	134	7.924E-08	6.227E-08	5.049E-08	4.186E-08	3.537E-08	1.850E-08	1.149E-08	5.679E-09
SW	91	4.454E-08	3.699E-08	3.127E-08	2.678E-08	2.322E-08	1.305E-08	8.373E-09	4.220E-09
WSW	74	3.546E-08	2.915E-08	2.448E-08	2.087E-08	1.806E-08	1.025E-08	6.710E-09	3.546E-09
W	89	3.199E-08	2.707E-08	2.325E-08	2.020E-08	1.774E-08	1.398E-08	9.048E-09	4.730E-09
WNW	122	4.095E-08	3.614E-08	2.943E-08	2.633E-08	2.369E-08	1.632E-08	1.177E-08	6.751E-09
NW	109	1.622E-08	1.519E-08	1.414E-08	1.317E-08	1.223E-08	1.233E-08	8.689E-09	5.668E-09
NNW	55	5.871E-09	5.725E-09	5.492E-09	5.242E-09	4.959E-09	3.645E-09	3.046E-09	4.025E-09
AVERAGE	2040	2.990E-08	2.552E-08	2.199E-08	1.935E-08	1.719E-08	1.116E-08	7.732E-09	4.615E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	133	2.491E-09	1.833E-09	1.414E-09	1.131E-09	9.217E-10	9.134E-10	7.581E-10
NNE	315	5.537E-09	4.165E-09	3.265E-09	2.645E-09	2.183E-09	1.841E-09	1.572E-09
NE	229	3.752E-09	2.851E-09	2.253E-09	1.837E-09	1.526E-09	1.294E-09	1.110E-09
ENE	111	1.767E-09	1.421E-09	1.347E-09	1.100E-09	9.148E-10	7.766E-10	6.675E-10
E	158	2.785E-09	2.125E-09	2.266E-09	1.824E-09	1.494E-09	1.251E-09	1.060E-09
ESE	103	1.942E-09	1.782E-09	1.399E-09	1.133E-09	9.345E-10	7.866E-10	6.705E-10
SE	96	2.267E-09	2.064E-09	1.545E-09	1.198E-09	9.477E-10	7.680E-10	6.316E-10
SSE	104	3.081E-09	2.151E-09	1.592E-09	1.226E-09	9.653E-10	7.805E-10	6.414E-10
S	117	3.223E-09	2.126E-09	1.509E-09	1.125E-09	8.640E-10	6.862E-10	5.573E-10
SSW	134	3.371E-09	2.228E-09	1.588E-09	1.191E-09	9.227E-10	7.402E-10	6.075E-10
SW	91	2.505E-09	1.640E-09	1.153E-09	8.524E-10	6.427E-10	5.071E-10	4.094E-10
WSW	74	2.204E-09	1.507E-09	1.048E-09	7.615E-10	5.703E-10	4.036E-10	3.228E-10
W	89	2.920E-09	1.974E-09	1.419E-09	1.065E-09	6.768E-10	4.488E-10	3.655E-10
WNW	122	4.412E-09	3.285E-09	2.467E-09	1.350E-09	9.448E-10	7.360E-10	5.866E-10
NW	109	3.653E-09	2.597E-09	1.913E-09	9.616E-10	7.310E-10	5.741E-10	4.600E-10
NNW	55	2.542E-09	1.742E-09	1.263E-09	9.509E-10	7.305E-10	5.756E-10	4.610E-10
AVERAGE	2040	3.028E-09	2.218E-09	1.715E-09	1.272E-09	9.981E-10	8.176E-10	6.801E-10

Table B-2
Depleted χ/Q Factors for Main Stack

PILGRIM 4TH QUARTER 2000 GENERAL ELEVATED χ/Q 'S -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE χ/Q AFTER DEPLETION (MET. AND ATOMIC ENERGY 1968 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	51	2.388E-18	5.436E-11	1.870E-09	2.849E-09	3.445E-09	5.069E-09	6.102E-09	6.410E-09
NNE	122	5.111E-11	2.513E-09	5.805E-09	7.610E-09	9.346E-09	1.304E-08	1.454E-08	1.445E-08
NE	164	4.286E-10	1.519E-08	1.053E-08	9.473E-09	1.116E-08	1.544E-08	1.729E-08	1.734E-08
ENE	254	5.432E-10	2.201E-08	2.961E-08	2.265E-08	2.107E-08	2.435E-08	2.603E-08	2.537E-08
E	349	1.152E-09	3.675E-08	2.920E-08	2.348E-08	2.593E-08	3.366E-08	3.609E-08	3.504E-08
ESE	293	1.644E-09	5.779E-08	3.690E-08	2.812E-08	3.016E-08	3.606E-08	3.632E-08	3.383E-08
SE	204	1.368E-09	4.249E-08	2.444E-08	1.930E-08	2.319E-08	3.208E-08	2.525E-08	2.358E-08
SSE	138	1.148E-09	3.595E-08	3.462E-08	6.736E-08	7.903E-08	6.633E-08	5.321E-08	4.304E-08
S	153	2.273E-09	5.018E-08	9.657E-08	1.945E-07	1.663E-07	1.546E-07	1.251E-07	9.444E-08
SSW	71	2.431E-09	5.725E-08	6.195E-08	9.151E-08	1.479E-07	1.148E-07	7.223E-08	5.058E-08
SW	58	4.537E-10	8.469E-09	4.156E-08	7.283E-08	6.738E-08	5.463E-08	4.050E-08	3.106E-08
WSW	54	8.617E-10	7.858E-09	2.384E-08	3.277E-08	4.657E-08	4.445E-08	3.404E-08	2.671E-08
W	60	5.568E-10	9.435E-09	2.021E-08	2.992E-08	3.595E-08	3.526E-08	2.688E-08	2.202E-08
WNW	75	1.568E-10	2.136E-09	7.121E-09	1.876E-08	2.994E-08	3.564E-08	3.013E-08	2.619E-08
NW	86	5.139E-13	6.778E-10	6.090E-09	8.552E-09	1.043E-08	1.443E-08	1.594E-08	1.567E-08
NNW	60	3.118E-35	4.076E-17	1.894E-11	3.545E-10	1.249E-09	3.869E-09	5.640E-09	6.338E-09
AVERAGE	2192	8.168E-10	2.180E-08	2.690E-08	3.938E-08	4.432E-08	4.273E-08	3.533E-08	2.950E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	51	6.237E-09	5.945E-09	5.609E-09	5.283E-09	4.947E-09	3.523E-09	2.614E-09	1.616E-09
NNE	122	1.357E-08	1.257E-08	1.159E-08	1.071E-08	9.885E-09	6.801E-09	4.991E-09	3.082E-09
NE	164	1.642E-08	1.533E-08	1.424E-08	1.323E-08	1.227E-08	8.543E-09	6.295E-09	3.896E-09
ENE	254	2.356E-08	2.165E-08	1.985E-08	1.825E-08	1.678E-08	1.145E-08	8.388E-09	5.188E-09
E	349	3.247E-08	2.976E-08	2.722E-08	2.497E-08	2.291E-08	1.551E-08	1.127E-08	6.867E-09
ESE	293	3.052E-08	2.739E-08	2.464E-08	2.230E-08	2.023E-08	1.330E-08	9.541E-09	5.732E-09
SE	204	2.132E-08	1.921E-08	1.736E-08	1.579E-08	1.440E-08	9.698E-09	7.063E-09	4.275E-09
SSE	138	3.545E-08	2.979E-08	2.546E-08	2.204E-08	1.931E-08	1.141E-08	7.707E-09	4.536E-09
S	153	7.219E-08	5.731E-08	4.683E-08	3.905E-08	3.318E-08	1.774E-08	1.123E-08	5.734E-09
SSW	71	3.797E-08	2.975E-08	2.405E-08	1.987E-08	1.674E-08	8.739E-09	5.488E-09	2.809E-09
SW	58	2.456E-08	1.997E-08	1.661E-08	1.404E-08	1.205E-08	6.598E-09	4.189E-09	2.112E-09
WSW	54	2.147E-08	1.769E-08	1.486E-08	1.268E-08	1.097E-08	6.166E-09	3.983E-09	2.048E-09
W	60	1.811E-08	1.514E-08	1.285E-08	1.105E-08	9.604E-09	6.057E-09	3.786E-09	1.897E-09
WNW	75	2.243E-08	1.935E-08	1.685E-08	1.481E-08	1.311E-08	7.508E-09	5.596E-09	3.004E-09
NW	86	1.456E-08	1.337E-08	1.223E-08	1.121E-08	1.027E-08	8.841E-09	5.997E-09	3.551E-09
NNW	60	6.349E-09	6.160E-09	5.881E-09	5.588E-09	5.265E-09	3.813E-09	3.104E-09	3.012E-09
AVERAGE	2192	2.482E-08	2.127E-08	1.851E-08	1.630E-08	1.449E-08	9.106E-09	6.328E-09	3.710E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	51	1.108E-09	8.071E-10	6.129E-10	4.816E-10	3.856E-10	3.682E-10	2.944E-10
NNE	122	2.140E-09	1.589E-09	1.234E-09	9.915E-10	8.118E-10	6.798E-10	5.769E-10
NE	164	2.703E-09	2.004E-09	1.554E-09	1.247E-09	1.021E-09	8.555E-10	7.267E-10
ENE	254	3.623E-09	2.781E-09	2.364E-09	1.903E-09	1.563E-09	1.314E-09	1.121E-09
E	349	4.739E-09	3.509E-09	3.212E-09	2.546E-09	2.062E-09	1.712E-09	1.444E-09
ESE	293	3.922E-09	3.091E-09	2.368E-09	1.884E-09	1.533E-09	1.279E-09	1.084E-09
SE	204	2.900E-09	2.476E-09	1.859E-09	1.453E-09	1.163E-09	9.551E-10	7.978E-10
SSE	138	2.890E-09	2.013E-09	1.490E-09	1.148E-09	9.052E-10	7.339E-10	6.053E-10
S	153	3.476E-09	2.326E-09	1.667E-09	1.251E-09	9.658E-10	7.699E-10	6.268E-10
SSW	71	1.732E-09	1.186E-09	8.689E-10	6.664E-10	5.247E-10	4.258E-10	3.519E-10
SW	58	1.277E-09	8.557E-10	6.159E-10	4.657E-10	3.586E-10	2.890E-10	2.379E-10
WSW	54	1.244E-09	8.304E-10	5.625E-10	4.165E-10	3.179E-10	2.372E-10	1.920E-10
W	60	1.154E-09	7.811E-10	5.676E-10	4.324E-10	3.191E-10	2.430E-10	2.007E-10
WNW	75	1.888E-09	1.312E-09	9.318E-10	6.084E-10	4.527E-10	3.609E-10	2.935E-10
NW	86	2.247E-09	1.568E-09	1.152E-09	6.684E-10	5.189E-10	4.157E-10	3.392E-10
NNW	60	1.880E-09	1.286E-09	9.357E-10	7.094E-10	5.503E-10	4.390E-10	3.560E-10
AVERAGE	2192	2.433E-09	1.776E-09	1.375E-09	1.055E-09	8.408E-10	6.924E-10	5.780E-10

Table B-2
Depleted χ/Q Factors for Main Stack

PILGRIM 2000 ANNUAL GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE
GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (MET. AND ATOMIC ENERGY 1968 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	364	5.481E-10	1.802E-08	1.250E-08	9.181E-09	8.877E-09	1.040E-08	1.127E-08	1.117E-08
NNE	1004	1.085E-09	3.194E-08	2.227E-08	1.763E-08	1.832E-08	2.311E-08	2.548E-08	2.536E-08
NE	680	6.729E-10	2.389E-08	1.745E-08	1.354E-08	1.336E-08	1.576E-08	1.703E-08	1.687E-08
ENE	570	5.674E-10	2.013E-08	1.531E-08	1.109E-08	1.087E-08	1.335E-08	1.466E-08	1.454E-08
E	874	1.396E-09	4.331E-08	2.350E-08	1.604E-08	1.651E-08	2.016E-08	2.153E-08	2.106E-08
ESE	745	1.481E-09	4.840E-08	2.946E-08	2.082E-08	2.011E-08	2.185E-08	2.167E-08	2.022E-08
SE	566	1.548E-09	4.595E-08	3.125E-08	2.157E-08	2.027E-08	2.440E-08	1.917E-08	1.810E-08
SSE	437	1.813E-09	5.564E-08	4.026E-08	5.720E-08	6.784E-08	5.837E-08	4.751E-08	3.878E-08
S	459	3.351E-09	6.606E-08	7.900E-08	1.516E-07	1.326E-07	1.325E-07	1.080E-07	8.098E-08
SSW	445	5.767E-09	9.417E-08	9.559E-08	1.250E-07	2.017E-07	1.828E-07	1.165E-07	8.233E-08
SW	361	5.437E-09	4.507E-08	5.968E-08	9.331E-08	8.712E-08	7.257E-08	5.479E-08	4.262E-08
WSW	299	5.968E-09	4.409E-08	4.397E-08	4.740E-08	6.325E-08	5.994E-08	4.586E-08	3.600E-08
W	321	5.028E-09	5.775E-08	4.601E-08	4.716E-08	5.258E-08	4.968E-08	3.774E-08	3.105E-08
WNW	341	1.734E-09	2.630E-08	2.895E-08	2.901E-08	3.725E-08	4.041E-08	3.391E-08	2.967E-08
NW	316	5.047E-10	1.214E-08	8.775E-09	7.970E-09	9.431E-09	1.303E-08	1.435E-08	1.411E-08
NNW	213	1.258E-10	5.572E-09	3.753E-09	2.910E-09	3.349E-09	5.268E-09	6.465E-09	6.792E-09
AVERAGE	7995	2.314E-09	3.990E-08	3.486E-08	4.197E-08	4.772E-08	4.647E-08	3.725E-08	3.060E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	364	1.051E-08	9.769E-09	9.037E-09	8.375E-09	7.740E-09	5.340E-09	3.916E-09	2.409E-09
NNE	1004	2.389E-08	2.223E-08	2.060E-08	1.912E-08	1.770E-08	1.234E-08	9.145E-09	5.742E-09
NE	680	1.590E-08	1.483E-08	1.378E-08	1.283E-08	1.191E-08	8.408E-09	6.298E-09	4.017E-09
ENE	570	1.367E-08	1.269E-08	1.173E-08	1.087E-08	1.005E-08	6.989E-09	5.185E-09	3.270E-09
E	874	1.968E-08	1.821E-08	1.680E-08	1.555E-08	1.437E-08	9.988E-09	7.415E-09	4.678E-09
ESE	745	1.835E-08	1.661E-08	1.508E-08	1.376E-08	1.258E-08	8.509E-09	6.247E-09	3.900E-09
SE	566	1.650E-08	1.498E-08	1.362E-08	1.244E-08	1.138E-08	7.674E-09	5.590E-09	3.417E-09
SSE	437	3.217E-08	2.719E-08	2.335E-08	2.029E-08	1.782E-08	1.063E-08	7.215E-09	4.325E-09
S	459	6.185E-08	4.910E-08	4.013E-08	3.348E-08	2.845E-08	1.521E-08	9.643E-09	4.938E-09
SSW	445	6.216E-08	4.897E-08	3.980E-08	3.308E-08	2.802E-08	1.483E-08	9.339E-09	4.739E-09
SW	361	3.414E-08	2.807E-08	2.356E-08	2.009E-08	1.735E-08	9.752E-09	6.322E-09	3.296E-09
WSW	299	2.904E-08	2.402E-08	2.026E-08	1.735E-08	1.506E-08	8.614E-09	5.665E-09	3.016E-09
W	321	2.572E-08	2.165E-08	1.851E-08	1.602E-08	1.401E-08	1.005E-08	6.441E-09	3.338E-09
WNW	341	2.565E-08	2.235E-08	1.965E-08	1.742E-08	1.554E-08	9.345E-09	7.273E-09	4.122E-09
NW	316	1.316E-08	1.213E-08	1.115E-08	1.026E-08	9.437E-09	8.672E-09	6.011E-09	3.771E-09
NNW	213	6.594E-09	6.261E-09	5.884E-09	5.521E-09	5.153E-09	3.649E-09	2.938E-09	3.181E-09
AVERAGE	7995	2.556E-08	2.182E-08	1.893E-08	1.665E-08	1.479E-08	9.375E-09	6.540E-09	3.885E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	364	1.665E-09	1.230E-09	9.508E-10	7.612E-10	6.217E-10	6.956E-10	5.758E-10
NNE	1004	4.036E-09	3.029E-09	2.374E-09	1.924E-09	1.589E-09	1.342E-09	1.148E-09
NE	680	2.853E-09	2.154E-09	1.692E-09	1.374E-09	1.137E-09	9.607E-10	8.225E-10
ENE	570	2.314E-09	1.807E-09	1.597E-09	1.292E-09	1.065E-09	8.978E-10	7.669E-10
E	874	3.305E-09	2.489E-09	2.411E-09	1.928E-09	1.573E-09	1.314E-09	1.113E-09
ESE	745	2.744E-09	2.306E-09	1.790E-09	1.439E-09	1.179E-09	9.892E-10	8.415E-10
SE	566	2.349E-09	2.027E-09	1.529E-09	1.199E-09	9.606E-10	7.897E-10	6.596E-10
SSE	437	2.771E-09	1.940E-09	1.442E-09	1.117E-09	8.848E-10	7.205E-10	5.968E-10
S	459	3.018E-09	2.043E-09	1.484E-09	1.129E-09	8.825E-10	7.117E-10	5.856E-10
SSW	445	2.879E-09	1.943E-09	1.409E-09	1.073E-09	8.405E-10	6.801E-10	5.618E-10
SW	361	2.039E-09	1.391E-09	1.014E-09	7.754E-10	6.063E-10	4.907E-10	4.053E-10
WSW	299	1.887E-09	1.298E-09	9.178E-10	6.887E-10	5.323E-10	4.011E-10	3.286E-10
W	321	2.063E-09	1.405E-09	1.021E-09	7.762E-10	5.336E-10	3.862E-10	3.203E-10
WNW	341	2.697E-09	2.028E-09	1.545E-09	8.596E-10	6.220E-10	4.942E-10	4.015E-10
NW	316	2.420E-09	1.715E-09	1.265E-09	6.736E-10	5.193E-10	4.136E-10	3.359E-10
NNW	213	2.006E-09	1.381E-09	1.009E-09	7.670E-10	5.958E-10	4.752E-10	3.853E-10
AVERAGE	7995	2.565E-09	1.887E-09	1.466E-09	1.111E-09	8.839E-10	7.351E-10	6.156E-10

Table B-3
Gamma χ/Q Factors for Main Stack

PILGRIM 1ST QUARTER 2000 GENERAL ELEVATED X/Q'S
STACK RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	93	2.966E-07	1.590E-07	7.236E-08	4.242E-08	3.212E-08	2.199E-08	1.686E-08	1.374E-08
NNE	230	5.705E-07	2.997E-07	1.416E-07	8.840E-08	6.757E-08	4.670E-08	3.593E-08	2.925E-08
NE	143	4.068E-07	2.126E-07	1.019E-07	6.430E-08	4.897E-08	3.373E-08	2.595E-08	2.117E-08
ENE	129	4.012E-07	2.131E-07	9.708E-08	5.822E-08	4.465E-08	3.128E-08	2.437E-08	2.001E-08
E	236	5.818E-07	3.187E-07	1.374E-07	7.576E-08	5.792E-08	4.029E-08	3.110E-08	2.534E-08
ESE	273	6.482E-07	3.491E-07	1.570E-07	9.568E-08	7.318E-08	5.068E-08	3.890E-08	3.155E-08
SE	214	7.636E-07	4.167E-07	2.203E-07	1.104E-07	7.276E-08	5.002E-08	2.948E-08	2.395E-08
SSE	110	6.447E-07	3.472E-07	1.770E-07	7.907E-08	6.192E-08	4.132E-08	3.072E-08	2.429E-08
S	75	2.999E-07	1.627E-07	7.756E-08	5.462E-08	4.126E-08	3.127E-08	2.439E-08	1.910E-08
SSW	86	5.140E-07	2.780E-07	1.202E-07	7.757E-08	7.238E-08	5.467E-08	3.865E-08	2.955E-08
SW	85	4.010E-07	2.119E-07	1.102E-07	7.086E-08	5.339E-08	3.610E-08	2.634E-08	2.052E-08
WSW	71	4.100E-07	2.186E-07	8.924E-08	4.907E-08	3.712E-08	2.576E-08	1.876E-08	1.460E-08
W	44	3.106E-07	1.746E-07	6.631E-08	2.744E-08	2.080E-08	1.412E-08	9.656E-09	7.701E-09
WNW	47	2.569E-07	1.437E-07	8.069E-08	3.816E-08	3.117E-08	2.091E-08	1.441E-08	1.154E-08
NW	54	2.372E-07	1.280E-07	5.690E-08	3.259E-08	2.489E-08	1.726E-08	1.332E-08	1.086E-08
NNW	47	1.727E-07	9.166E-08	4.293E-08	2.588E-08	1.956E-08	1.340E-08	1.032E-08	8.446E-09
AVERAGE	1937	4.322E-07	2.328E-07	1.093E-07	6.190E-08	4.748E-08	3.309E-08	2.432E-08	1.948E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	93	1.158E-08	9.997E-09	8.793E-09	7.842E-09	7.070E-09	4.703E-09	3.494E-09	2.278E-09
NNE	230	2.460E-08	2.121E-08	1.862E-08	1.658E-08	1.492E-08	9.846E-09	7.265E-09	4.687E-09
NE	143	1.784E-08	1.540E-08	1.354E-08	1.207E-08	1.088E-08	7.212E-09	5.341E-09	3.465E-09
ENE	129	1.694E-08	1.468E-08	1.294E-08	1.156E-08	1.043E-08	6.944E-09	5.147E-09	3.333E-09
E	236	2.132E-08	1.837E-08	1.611E-08	1.433E-08	1.288E-08	8.477E-09	6.238E-09	4.001E-09
ESE	273	2.643E-08	2.268E-08	1.982E-08	1.756E-08	1.574E-08	1.024E-08	7.480E-09	4.741E-09
SE	214	2.009E-08	1.726E-08	1.510E-08	1.339E-08	1.201E-08	7.825E-09	5.715E-09	3.623E-09
SSE	110	1.997E-08	1.689E-08	1.459E-08	1.280E-08	1.138E-08	7.241E-09	5.232E-09	3.461E-09
S	75	1.543E-08	1.288E-08	1.101E-08	9.584E-09	8.469E-09	5.290E-09	3.796E-09	2.377E-09
SSW	86	2.374E-08	1.973E-08	1.681E-08	1.459E-08	1.286E-08	7.964E-09	5.679E-09	3.529E-09
SW	85	1.667E-08	1.396E-08	1.196E-08	1.041E-08	9.195E-09	5.714E-09	4.061E-09	2.494E-09
WSW	71	1.185E-08	9.911E-09	8.483E-09	7.384E-09	6.520E-09	4.051E-09	2.878E-09	1.766E-09
W	44	6.379E-09	5.428E-09	4.714E-09	4.156E-09	3.711E-09	2.866E-09	2.073E-09	1.309E-09
WNW	47	9.617E-09	8.236E-09	7.198E-09	6.385E-09	5.734E-09	3.605E-09	3.014E-09	1.975E-09
NW	54	9.148E-09	7.900E-09	6.948E-09	6.196E-09	5.585E-09	4.425E-09	3.241E-09	2.234E-09
NNW	47	7.143E-09	6.186E-09	5.453E-09	4.873E-09	4.400E-09	2.941E-09	2.298E-09	2.109E-09
AVERAGE	1937	1.617E-08	1.380E-08	1.201E-08	1.061E-08	9.487E-09	6.209E-09	4.559E-09	2.961E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	93	1.679E-09	1.323E-09	1.090E-09	9.262E-10	8.015E-10	9.301E-10	8.263E-10
NNE	230	3.426E-09	2.684E-09	2.202E-09	1.865E-09	1.608E-09	1.415E-09	1.261E-09
NE	143	2.542E-09	1.997E-09	1.641E-09	1.392E-09	1.202E-09	1.059E-09	9.439E-10
ENE	129	2.440E-09	1.950E-09	1.698E-09	1.433E-09	1.232E-09	1.081E-09	9.605E-10
E	236	2.916E-09	2.279E-09	2.090E-09	1.759E-09	1.510E-09	1.322E-09	1.173E-09
ESE	273	3.431E-09	2.860E-09	2.327E-09	1.957E-09	1.678E-09	1.468E-09	1.302E-09
SE	214	2.618E-09	2.248E-09	1.821E-09	1.526E-09	1.304E-09	1.138E-09	1.007E-09
SSE	110	2.481E-09	1.920E-09	1.562E-09	1.313E-09	1.125E-09	9.839E-10	8.718E-10
S	75	1.706E-09	1.322E-09	1.078E-09	9.073E-10	7.786E-10	6.815E-10	6.044E-10
SSW	86	2.522E-09	1.949E-09	1.586E-09	1.334E-09	1.143E-09	1.000E-09	8.872E-10
SW	85	1.769E-09	1.358E-09	1.097E-09	9.178E-10	7.992E-10	6.966E-10	6.153E-10
WSW	71	1.253E-09	9.682E-10	8.164E-10	6.817E-10	5.807E-10	5.086E-10	4.485E-10
W	44	9.465E-10	7.375E-10	6.030E-10	5.094E-10	4.718E-10	4.138E-10	3.678E-10
WNW	47	1.465E-09	1.264E-09	1.230E-09	1.136E-09	9.805E-10	8.627E-10	7.691E-10
NW	54	1.617E-09	1.287E-09	1.060E-09	9.763E-10	8.353E-10	7.295E-10	6.457E-10
NNW	47	1.511E-09	1.169E-09	9.504E-10	7.988E-10	6.845E-10	5.986E-10	5.305E-10
AVERAGE	1937	2.145E-09	1.707E-09	1.428E-09	1.214E-09	1.046E-09	9.306E-10	8.258E-10

Table B-3
Gamma χ /Q Factors for Main Stack

PILGRIM 2ND QUARTER 2000 GENERAL ELEVATED X/Q'S
STACK RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	87	3.527E-07	1.838E-07	8.936E-08	5.690E-08	4.313E-08	2.946E-08	2.253E-08	1.830E-08
NNE	337	9.292E-07	4.846E-07	2.366E-07	1.508E-07	1.142E-07	7.797E-08	5.965E-08	4.852E-08
NE	144	4.545E-07	2.358E-07	1.172E-07	7.537E-08	5.640E-08	3.771E-08	2.853E-08	2.312E-08
ENE	76	2.822E-07	1.436E-07	7.242E-08	4.805E-08	3.634E-08	2.477E-08	1.896E-08	1.544E-08
E	131	4.335E-07	2.234E-07	1.084E-07	6.988E-08	5.326E-08	3.672E-08	2.830E-08	2.310E-08
ESE	76	2.711E-07	1.437E-07	6.695E-08	4.226E-08	3.190E-08	2.151E-08	1.626E-08	1.310E-08
SE	52	4.817E-07	2.462E-07	1.251E-07	7.043E-08	4.470E-08	3.100E-08	1.694E-08	1.367E-08
SSE	85	9.327E-07	4.899E-07	2.462E-07	8.301E-08	6.538E-08	4.368E-08	3.231E-08	2.539E-08
S	114	8.526E-07	4.566E-07	2.008E-07	1.431E-07	1.062E-07	7.503E-08	5.579E-08	4.294E-08
SSW	154	1.134E-06	6.093E-07	2.561E-07	1.669E-07	1.485E-07	1.027E-07	7.142E-08	5.399E-08
SW	127	8.174E-07	4.279E-07	2.247E-07	1.321E-07	9.920E-08	6.643E-08	4.813E-08	3.722E-08
WSW	100	1.049E-06	5.489E-07	2.245E-07	1.208E-07	9.118E-08	6.347E-08	4.633E-08	3.613E-08
W	128	1.038E-06	5.428E-07	3.152E-07	1.602E-07	1.225E-07	8.288E-08	5.615E-08	4.429E-08
WNW	97	5.334E-07	2.766E-07	1.236E-07	1.290E-07	1.072E-07	7.367E-08	5.146E-08	4.111E-08
NW	67	3.274E-07	1.678E-07	8.469E-08	5.656E-08	4.329E-08	3.002E-08	2.311E-08	1.881E-08
NNW	51	2.374E-07	1.218E-07	6.110E-08	4.064E-08	3.118E-08	2.171E-08	1.679E-08	1.372E-08
AVERAGE	1826	6.329E-07	3.314E-07	1.652E-07	9.663E-08	7.466E-08	5.117E-08	3.704E-08	2.930E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	87	1.538E-08	1.323E-08	1.160E-08	1.031E-08	9.261E-09	6.077E-09	4.462E-09	2.852E-09
NNE	337	4.077E-08	3.508E-08	3.074E-08	2.731E-08	2.453E-08	1.604E-08	1.174E-08	7.467E-09
NE	144	1.942E-08	1.673E-08	1.469E-08	1.308E-08	1.177E-08	7.791E-09	5.770E-09	3.749E-09
ENE	76	1.301E-08	1.123E-08	9.873E-09	8.799E-09	7.928E-09	5.266E-09	3.908E-09	2.542E-09
E	131	1.949E-08	1.686E-08	1.485E-08	1.326E-08	1.196E-08	7.989E-09	5.952E-09	3.897E-09
ESE	76	1.095E-08	9.405E-09	8.239E-09	7.326E-09	6.591E-09	4.364E-09	3.246E-09	2.131E-09
SE	52	1.141E-08	9.750E-09	8.491E-09	7.502E-09	6.704E-09	4.308E-09	3.116E-09	1.950E-09
SSE	85	2.075E-08	1.745E-08	1.499E-08	1.308E-08	1.157E-08	7.209E-09	5.130E-09	3.244E-09
S	114	3.438E-08	2.846E-08	2.416E-08	2.087E-08	1.832E-08	1.117E-08	7.861E-09	4.774E-09
SSW	154	4.301E-08	3.548E-08	3.003E-08	2.589E-08	2.268E-08	1.376E-08	9.650E-09	5.827E-09
SW	127	3.002E-08	2.497E-08	2.126E-08	1.842E-08	1.619E-08	9.888E-09	6.925E-09	4.150E-09
WSW	100	2.936E-08	2.458E-08	2.105E-08	1.833E-08	1.618E-08	1.004E-08	7.124E-09	4.363E-09
W	128	3.623E-08	3.046E-08	2.615E-08	2.281E-08	2.017E-08	1.373E-08	9.565E-09	5.692E-09
WNW	97	3.399E-08	2.883E-08	2.286E-08	2.008E-08	1.785E-08	1.161E-08	8.396E-09	5.162E-09
NW	67	1.578E-08	1.355E-08	1.184E-08	1.049E-08	9.398E-09	6.926E-09	4.943E-09	3.175E-09
NNW	51	1.156E-08	9.960E-09	8.732E-09	7.760E-09	6.969E-09	4.550E-09	3.442E-09	2.693E-09
AVERAGE	1826	2.409E-08	2.038E-08	1.747E-08	1.533E-08	1.363E-08	8.795E-09	6.327E-09	3.979E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		25.00	30.00	34.95	40.00	45.00	50.00	
N	87	2.073E-09	1.618E-09	1.324E-09	1.119E-09	9.630E-10	1.078E-09	9.557E-10
NNE	337	5.405E-09	4.204E-09	3.430E-09	2.890E-09	2.482E-09	2.176E-09	1.932E-09
NE	144	2.756E-09	2.168E-09	1.785E-09	1.516E-09	1.311E-09	1.156E-09	1.032E-09
ENE	76	1.872E-09	1.516E-09	1.367E-09	1.159E-09	1.002E-09	8.830E-10	7.880E-10
E	131	2.879E-09	2.273E-09	2.219E-09	1.879E-09	1.620E-09	1.425E-09	1.269E-09
ESE	76	1.580E-09	1.391E-09	1.148E-09	9.766E-10	8.460E-10	7.466E-10	6.670E-10
SE	52	1.398E-09	1.212E-09	9.796E-10	8.191E-10	6.986E-10	6.089E-10	5.377E-10
SSE	85	2.291E-09	1.753E-09	1.414E-09	1.180E-09	1.005E-09	8.753E-10	7.723E-10
S	114	3.363E-09	2.569E-09	2.071E-09	1.727E-09	1.470E-09	1.280E-09	1.129E-09
SSW	154	4.092E-09	3.120E-09	2.512E-09	2.094E-09	1.781E-09	1.549E-09	1.365E-09
SW	127	2.899E-09	2.200E-09	1.765E-09	1.466E-09	1.257E-09	1.090E-09	9.582E-10
WSW	100	3.089E-09	2.383E-09	2.006E-09	1.673E-09	1.423E-09	1.249E-09	1.101E-09
W	128	3.959E-09	2.995E-09	2.396E-09	1.986E-09	1.711E-09	1.481E-09	1.300E-09
WNW	97	3.662E-09	2.903E-09	2.476E-09	2.118E-09	1.799E-09	1.563E-09	1.377E-09
NW	67	2.237E-09	1.729E-09	1.398E-09	1.218E-09	1.032E-09	8.952E-10	7.869E-10
NNW	51	1.889E-09	1.438E-09	1.156E-09	9.630E-10	8.184E-10	7.113E-10	6.266E-10
AVERAGE	1826	2.840E-09	2.217E-09	1.840E-09	1.549E-09	1.326E-09	1.173E-09	1.037E-09

Table B-3
Gamma χ/Q Factors for Main Stack

PILGRIM 3RD QUARTER 2000 GENERAL ELEVATED X/Q'S
STACK RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	133	4.238E-07	2.179E-07	1.093E-07	7.193E-08	5.463E-08	3.753E-08	2.888E-08	2.359E-08
NNE	315	8.838E-07	4.503E-07	2.252E-07	1.498E-07	1.145E-07	7.943E-08	6.150E-08	5.037E-08
NE	229	6.823E-07	3.511E-07	1.727E-07	1.125E-07	8.582E-08	5.913E-08	4.545E-08	3.702E-08
ENE	111	3.470E-07	1.769E-07	8.835E-08	5.866E-08	4.475E-08	3.077E-08	2.359E-08	1.917E-08
E	158	5.021E-07	2.574E-07	1.283E-07	8.404E-08	6.359E-08	4.335E-08	3.321E-08	2.707E-08
ESE	103	3.699E-07	1.924E-07	9.662E-08	6.362E-08	4.662E-08	3.036E-08	2.275E-08	1.847E-08
SE	96	9.213E-07	4.710E-07	2.220E-07	1.182E-07	7.402E-08	5.002E-08	2.545E-08	2.074E-08
SSE	104	1.362E-06	7.111E-07	3.623E-07	1.044E-07	8.169E-08	5.439E-08	4.032E-08	3.187E-08
S	117	9.027E-07	4.726E-07	2.142E-07	1.594E-07	1.184E-07	8.506E-08	6.397E-08	4.942E-08
SSW	134	9.369E-07	4.908E-07	2.335E-07	1.598E-07	1.410E-07	9.796E-08	6.791E-08	5.135E-08
SW	91	7.669E-07	3.975E-07	2.209E-07	1.333E-07	1.005E-07	6.828E-08	5.006E-08	3.915E-08
WSW	74	8.010E-07	4.077E-07	1.778E-07	1.026E-07	7.867E-08	5.515E-08	4.027E-08	3.137E-08
W	89	7.197E-07	3.718E-07	2.248E-07	1.200E-07	8.919E-08	6.034E-08	4.098E-08	3.243E-08
WNW	122	5.969E-07	3.040E-07	2.496E-07	1.549E-07	1.276E-07	8.668E-08	6.045E-08	4.846E-08
NW	109	4.461E-07	2.262E-07	1.140E-07	7.681E-08	5.894E-08	4.107E-08	3.182E-08	2.602E-08
NNW	55	2.108E-07	1.060E-07	5.377E-08	3.655E-08	2.799E-08	1.947E-08	1.512E-08	1.242E-08
AVERAGE	2040	6.796E-07	3.503E-07	1.808E-07	1.067E-07	8.175E-08	5.619E-08	4.073E-08	3.243E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	133	1.989E-08	1.716E-08	1.507E-08	1.341E-08	1.207E-08	7.927E-09	5.815E-09	3.704E-09
NNE	315	4.257E-08	3.685E-08	3.246E-08	2.898E-08	2.614E-08	1.738E-08	1.287E-08	8.334E-09
NE	229	3.117E-08	2.689E-08	2.363E-08	2.106E-08	1.896E-08	1.256E-08	9.303E-09	6.030E-09
ENE	111	1.612E-08	1.390E-08	1.221E-08	1.088E-08	9.801E-09	6.505E-09	4.829E-09	3.146E-09
E	158	2.283E-08	1.974E-08	1.738E-08	1.551E-08	1.400E-08	9.336E-09	6.948E-09	4.541E-09
ESE	103	1.557E-08	1.345E-08	1.184E-08	1.056E-08	9.529E-09	6.360E-09	4.742E-09	3.110E-09
SE	96	1.748E-08	1.509E-08	1.326E-08	1.181E-08	1.064E-08	7.030E-09	5.191E-09	3.351E-09
SSE	104	2.620E-08	2.214E-08	1.909E-08	1.672E-08	1.484E-08	9.354E-09	6.714E-09	4.341E-09
S	117	3.959E-08	3.279E-08	2.785E-08	2.409E-08	2.116E-08	1.295E-08	9.138E-09	5.575E-09
SSW	134	4.092E-08	3.376E-08	2.858E-08	2.465E-08	2.160E-08	1.312E-08	9.203E-09	5.567E-09
SW	91	3.188E-08	2.674E-08	2.293E-08	1.998E-08	1.766E-08	1.098E-08	7.803E-09	4.783E-09
WSW	74	2.547E-08	2.131E-08	1.823E-08	1.586E-08	1.399E-08	8.652E-09	6.120E-09	3.723E-09
W	89	2.663E-08	2.247E-08	1.936E-08	1.694E-08	1.502E-08	1.078E-08	7.591E-09	4.598E-09
WNW	122	4.025E-08	3.431E-08	2.734E-08	2.411E-08	2.153E-08	1.434E-08	1.055E-08	6.628E-09
NW	109	2.196E-08	1.897E-08	1.668E-08	1.487E-08	1.340E-08	1.052E-08	7.648E-09	5.165E-09
NNW	55	1.053E-08	9.142E-09	8.078E-09	7.234E-09	6.544E-09	4.396E-09	3.455E-09	3.215E-09
AVERAGE	2040	2.682E-08	2.279E-08	1.962E-08	1.729E-08	1.543E-08	1.014E-08	7.370E-09	4.738E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	133	2.682E-09	2.085E-09	1.700E-09	1.432E-09	1.229E-09	1.268E-09	1.120E-09
NNE	315	6.100E-09	4.782E-09	3.921E-09	3.319E-09	2.861E-09	2.516E-09	2.240E-09
NE	229	4.425E-09	3.478E-09	2.859E-09	2.425E-09	2.095E-09	1.846E-09	1.646E-09
ENE	111	2.319E-09	1.879E-09	1.690E-09	1.434E-09	1.239E-09	1.092E-09	9.745E-10
E	158	3.349E-09	2.641E-09	2.562E-09	2.168E-09	1.869E-09	1.643E-09	1.463E-09
ESE	103	2.301E-09	2.016E-09	1.659E-09	1.409E-09	1.219E-09	1.074E-09	9.591E-10
SE	96	2.448E-09	2.216E-09	1.803E-09	1.516E-09	1.300E-09	1.138E-09	1.008E-09
SSE	104	3.091E-09	2.378E-09	1.926E-09	1.613E-09	1.378E-09	1.203E-09	1.064E-09
S	117	3.938E-09	3.015E-09	2.436E-09	2.035E-09	1.735E-09	1.511E-09	1.333E-09
SSW	134	3.914E-09	2.987E-09	2.407E-09	2.008E-09	1.709E-09	1.487E-09	1.311E-09
SW	91	3.388E-09	2.597E-09	2.098E-09	1.754E-09	1.523E-09	1.326E-09	1.170E-09
WSW	74	2.626E-09	2.022E-09	1.721E-09	1.433E-09	1.217E-09	1.074E-09	9.459E-10
W	89	3.235E-09	2.469E-09	1.989E-09	1.659E-09	1.469E-09	1.277E-09	1.124E-09
WNW	122	4.768E-09	3.866E-09	3.382E-09	2.922E-09	2.492E-09	2.171E-09	1.917E-09
NW	109	3.701E-09	2.914E-09	2.384E-09	2.137E-09	1.821E-09	1.585E-09	1.399E-09
NNW	55	2.302E-09	1.779E-09	1.447E-09	1.216E-09	1.042E-09	9.111E-10	8.074E-10
AVERAGE	2040	3.412E-09	2.695E-09	2.249E-09	1.905E-09	1.637E-09	1.445E-09	1.280E-09

Table B-3
Gamma γ /Q Factors for Main Stack

PILGRIM 4TH QUARTER 2000 GENERAL ELEVATED X/Q'S
STACK RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	51	1.913E-07	9.638E-08	4.929E-08	3.371E-08	2.588E-08	1.801E-08	1.396E-08	1.143E-08
NNE	122	3.473E-07	1.759E-07	9.009E-08	6.148E-08	4.727E-08	3.291E-08	2.542E-08	2.073E-08
NE	164	4.655E-07	2.386E-07	1.186E-07	7.839E-08	6.010E-08	4.179E-08	3.233E-08	2.643E-08
ENE	254	6.201E-07	3.192E-07	1.616E-07	1.063E-07	8.011E-08	5.435E-08	4.149E-08	3.378E-08
E	349	8.691E-07	4.478E-07	2.223E-07	1.456E-07	1.110E-07	7.661E-08	5.895E-08	4.805E-08
ESE	293	7.097E-07	3.735E-07	1.794E-07	1.170E-07	8.900E-08	6.116E-08	4.682E-08	3.800E-08
SE	204	8.041E-07	4.157E-07	2.425E-07	1.405E-07	9.355E-08	6.511E-08	3.857E-08	3.135E-08
SSE	138	6.907E-07	3.574E-07	2.039E-07	1.006E-07	7.915E-08	5.271E-08	3.896E-08	3.063E-08
S	153	6.973E-07	3.633E-07	2.065E-07	1.568E-07	1.169E-07	8.344E-08	6.276E-08	4.852E-08
SSW	71	4.830E-07	2.573E-07	1.231E-07	8.295E-08	7.417E-08	5.065E-08	3.515E-08	2.658E-08
SW	58	3.571E-07	1.825E-07	1.083E-07	7.422E-08	5.561E-08	3.710E-08	2.683E-08	2.078E-08
WSW	54	3.701E-07	1.882E-07	9.472E-08	5.943E-08	4.571E-08	3.211E-08	2.350E-08	1.831E-08
W	60	3.325E-07	1.698E-07	9.998E-08	5.782E-08	4.459E-08	3.045E-08	2.073E-08	1.639E-08
WNW	75	2.762E-07	1.397E-07	1.073E-07	6.796E-08	5.759E-08	4.013E-08	2.805E-08	2.248E-08
NW	86	3.267E-07	1.652E-07	8.529E-08	5.868E-08	4.522E-08	3.156E-08	2.438E-08	1.985E-08
NNW	60	1.840E-07	9.253E-08	4.697E-08	3.201E-08	2.462E-08	1.729E-08	1.354E-08	1.117E-08
AVERAGE	2192	4.828E-07	2.489E-07	1.337E-07	8.584E-08	6.565E-08	4.534E-08	3.322E-08	2.653E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	51	9.665E-09	8.368E-09	7.374E-09	6.588E-09	5.946E-09	3.959E-09	2.935E-09	1.904E-09
NNE	122	1.744E-08	1.503E-08	1.318E-08	1.172E-08	1.053E-08	6.903E-09	5.058E-09	3.221E-09
NE	164	2.230E-08	1.926E-08	1.694E-08	1.509E-08	1.359E-08	8.985E-09	6.626E-09	4.258E-09
ENE	254	2.841E-08	2.447E-08	2.145E-08	1.906E-08	1.713E-08	1.122E-08	8.217E-09	5.228E-09
E	349	4.043E-08	3.482E-08	3.052E-08	2.713E-08	2.438E-08	1.598E-08	1.171E-08	7.451E-09
ESE	293	3.184E-08	2.730E-08	2.384E-08	2.110E-08	1.889E-08	1.223E-08	8.877E-09	5.567E-09
SE	204	2.630E-08	2.259E-08	1.977E-08	1.754E-08	1.573E-08	1.029E-08	7.545E-09	4.815E-09
SSE	138	2.505E-08	2.108E-08	1.812E-08	1.583E-08	1.401E-08	8.766E-09	6.255E-09	3.998E-09
S	153	3.885E-08	3.216E-08	2.730E-08	2.359E-08	2.070E-08	1.262E-08	8.879E-09	5.393E-09
SSW	71	2.119E-08	1.748E-08	1.479E-08	1.274E-08	1.116E-08	6.743E-09	4.721E-09	2.850E-09
SW	58	1.678E-08	1.397E-08	1.190E-08	1.031E-08	9.066E-09	5.540E-09	3.878E-09	2.319E-09
WSW	54	1.486E-08	1.242E-08	1.062E-08	9.230E-09	8.139E-09	5.026E-09	3.546E-09	2.146E-09
W	60	1.342E-08	1.129E-08	9.695E-09	8.454E-09	7.471E-09	5.040E-09	3.499E-09	2.070E-09
WNW	75	1.862E-08	1.581E-08	1.368E-08	1.202E-08	1.068E-08	6.302E-09	4.994E-09	3.053E-09
NW	86	1.667E-08	1.434E-08	1.255E-08	1.114E-08	9.998E-09	7.491E-09	5.369E-09	3.488E-09
NNW	60	9.488E-09	8.249E-09	7.294E-09	6.535E-09	5.911E-09	3.961E-09	3.083E-09	2.620E-09
AVERAGE	2192	2.196E-08	1.866E-08	1.619E-08	1.425E-08	1.271E-08	8.191E-09	5.950E-09	3.774E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	51	1.395E-09	1.094E-09	8.977E-10	7.602E-10	6.557E-10	7.116E-10	6.298E-10
NNE	122	2.333E-09	1.815E-09	1.481E-09	1.248E-09	1.072E-09	9.400E-10	8.346E-10
NE	164	3.102E-09	2.424E-09	1.983E-09	1.675E-09	1.442E-09	1.266E-09	1.126E-09
ENE	254	3.786E-09	2.998E-09	2.586E-09	2.174E-09	1.863E-09	1.631E-09	1.446E-09
E	349	5.399E-09	4.202E-09	3.877E-09	3.256E-09	2.788E-09	2.438E-09	2.159E-09
ESE	293	3.996E-09	3.279E-09	2.655E-09	2.224E-09	1.899E-09	1.657E-09	1.465E-09
SE	204	3.501E-09	3.206E-09	2.606E-09	2.189E-09	1.875E-09	1.639E-09	1.451E-09
SSE	138	2.831E-09	2.170E-09	1.752E-09	1.464E-09	1.248E-09	1.087E-09	9.599E-10
S	153	3.799E-09	2.903E-09	2.341E-09	1.954E-09	1.664E-09	1.449E-09	1.279E-09
SSW	71	2.000E-09	1.524E-09	1.225E-09	1.021E-09	8.677E-10	7.550E-10	6.656E-10
SW	58	1.617E-09	1.225E-09	9.800E-10	8.125E-10	6.953E-10	6.020E-10	5.284E-10
WSW	54	1.507E-09	1.155E-09	9.658E-10	8.014E-10	6.788E-10	5.934E-10	5.209E-10
W	60	1.433E-09	1.080E-09	8.602E-10	7.107E-10	6.076E-10	5.249E-10	4.596E-10
WNW	75	2.155E-09	1.689E-09	1.410E-09	1.187E-09	1.005E-09	8.712E-10	7.652E-10
NW	86	2.469E-09	1.915E-09	1.554E-09	1.355E-09	1.151E-09	1.001E-09	8.814E-10
NNW	60	1.860E-09	1.429E-09	1.156E-09	9.669E-10	8.252E-10	7.198E-10	6.361E-10
AVERAGE	2192	2.699E-09	2.132E-09	1.771E-09	1.487E-09	1.271E-09	1.118E-09	9.879E-10

Table B-3
Gamma χ /Q Factors for Main Stack

PILGRIM 2000 ANNUAL GENERAL ELEVATED X/Q'S
STACK RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	364	3.130E-07	1.625E-07	7.934E-08	5.087E-08	3.867E-08	2.657E-08	2.043E-08	1.666E-08
NNE	1004	6.712E-07	3.464E-07	1.705E-07	1.109E-07	8.463E-08	5.841E-08	4.499E-08	3.670E-08
NE	680	5.041E-07	2.603E-07	1.281E-07	8.300E-08	6.312E-08	4.333E-08	3.326E-08	2.710E-08
ENE	570	4.203E-07	2.171E-07	1.069E-07	6.919E-08	5.250E-08	3.598E-08	2.762E-08	2.252E-08
E	874	6.065E-07	3.166E-07	1.517E-07	9.566E-08	7.285E-08	5.020E-08	3.862E-08	3.149E-08
ESE	745	5.081E-07	2.689E-07	1.272E-07	8.115E-08	6.130E-08	4.169E-08	3.176E-08	2.575E-08
SE	566	6.163E-07	3.226E-07	1.857E-07	1.046E-07	6.911E-08	4.759E-08	2.807E-08	2.280E-08
SSE	437	6.794E-07	3.568E-07	1.947E-07	9.231E-08	7.246E-08	4.830E-08	3.578E-08	2.820E-08
S	459	6.238E-07	3.296E-07	1.760E-07	1.296E-07	9.656E-08	6.932E-08	5.219E-08	4.036E-08
SSW	445	7.238E-07	3.857E-07	1.810E-07	1.205E-07	1.078E-07	7.561E-08	5.265E-08	3.988E-08
SW	361	5.501E-07	2.863E-07	1.551E-07	1.017E-07	7.649E-08	5.152E-08	3.751E-08	2.916E-08
WSW	299	5.659E-07	2.933E-07	1.368E-07	8.199E-08	6.244E-08	4.363E-08	3.186E-08	2.482E-08
W	321	5.869E-07	3.076E-07	1.637E-07	8.895E-08	6.806E-08	4.613E-08	3.133E-08	2.477E-08
WNW	341	4.120E-07	2.138E-07	1.528E-07	9.115E-08	7.604E-08	5.204E-08	3.611E-08	2.892E-08
NW	316	3.356E-07	1.723E-07	8.559E-08	5.650E-08	4.335E-08	3.017E-08	2.331E-08	1.901E-08
NNW	213	2.003E-07	1.024E-07	5.095E-08	3.365E-08	2.575E-08	1.791E-08	1.391E-08	1.141E-08
AVERAGE	7995	5.198E-07	2.714E-07	1.404E-07	8.699E-08	6.694E-08	4.615E-08	3.371E-08	2.685E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	364	1.404E-08	1.212E-08	1.065E-08	9.484E-09	8.538E-09	5.636E-09	4.155E-09	2.670E-09
NNE	1004	3.092E-08	2.668E-08	2.343E-08	2.086E-08	1.878E-08	1.238E-08	9.115E-09	5.851E-09
NE	680	2.282E-08	1.969E-08	1.731E-08	1.542E-08	1.389E-08	9.195E-09	6.802E-09	4.401E-09
ENE	570	1.897E-08	1.637E-08	1.438E-08	1.281E-08	1.153E-08	7.617E-09	5.622E-09	3.622E-09
E	874	2.652E-08	2.288E-08	2.009E-08	1.789E-08	1.610E-08	1.064E-08	7.851E-09	5.060E-09
ESE	745	2.159E-08	1.855E-08	1.623E-08	1.440E-08	1.292E-08	8.449E-09	6.193E-09	3.953E-09
SE	566	1.913E-08	1.644E-08	1.439E-08	1.277E-08	1.146E-08	7.491E-09	5.487E-09	3.497E-09
SSE	437	2.312E-08	1.950E-08	1.679E-08	1.469E-08	1.302E-08	8.188E-09	5.865E-09	3.782E-09
S	459	3.235E-08	2.681E-08	2.278E-08	1.970E-08	1.731E-08	1.060E-08	7.481E-09	4.568E-09
SSW	445	3.183E-08	2.629E-08	2.228E-08	1.923E-08	1.687E-08	1.027E-08	7.221E-09	4.387E-09
SW	361	2.364E-08	1.974E-08	1.687E-08	1.466E-08	1.292E-08	7.964E-09	5.621E-09	3.409E-09
WSW	299	2.016E-08	1.686E-08	1.443E-08	1.256E-08	1.108E-08	6.862E-09	4.860E-09	2.963E-09
W	321	2.031E-08	1.711E-08	1.472E-08	1.287E-08	1.139E-08	7.970E-09	5.587E-09	3.360E-09
WNW	341	2.398E-08	2.040E-08	1.770E-08	1.559E-08	1.390E-08	8.344E-09	6.712E-09	4.188E-09
NW	316	1.600E-08	1.378E-08	1.209E-08	1.075E-08	9.660E-09	7.393E-09	5.338E-09	3.541E-09
NNW	213	9.658E-09	8.368E-09	7.377E-09	6.591E-09	5.948E-09	3.959E-09	3.070E-09	2.664E-09
AVERAGE	7995	2.219E-08	1.885E-08	1.635E-08	1.439E-08	1.283E-08	8.309E-09	6.061E-09	3.870E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	364	1.947E-09	1.522E-09	1.246E-09	1.054E-09	9.075E-10	9.900E-10	8.767E-10
NNE	1004	4.261E-09	3.328E-09	2.724E-09	2.301E-09	1.981E-09	1.740E-09	1.547E-09
NE	680	3.225E-09	2.531E-09	2.078E-09	1.761E-09	1.520E-09	1.338E-09	1.193E-09
ENE	570	2.647E-09	2.119E-09	1.863E-09	1.573E-09	1.354E-09	1.189E-09	1.057E-09
E	874	3.698E-09	2.897E-09	2.730E-09	2.301E-09	1.977E-09	1.733E-09	1.539E-09
ESE	745	2.873E-09	2.423E-09	1.976E-09	1.666E-09	1.431E-09	1.254E-09	1.114E-09
SE	566	2.537E-09	2.265E-09	1.839E-09	1.543E-09	1.321E-09	1.154E-09	1.021E-09
SSE	437	2.688E-09	2.066E-09	1.672E-09	1.400E-09	1.196E-09	1.043E-09	9.219E-10
S	459	3.228E-09	2.472E-09	1.997E-09	1.669E-09	1.423E-09	1.240E-09	1.095E-09
SSW	445	3.092E-09	2.364E-09	1.907E-09	1.593E-09	1.357E-09	1.182E-09	1.043E-09
SW	361	2.399E-09	1.830E-09	1.473E-09	1.228E-09	1.060E-09	9.211E-10	8.113E-10
WSW	299	2.093E-09	1.612E-09	1.360E-09	1.133E-09	9.628E-10	8.456E-10	7.445E-10
W	321	2.353E-09	1.789E-09	1.437E-09	1.196E-09	1.047E-09	9.085E-10	7.992E-10
WNW	341	3.000E-09	2.419E-09	2.113E-09	1.830E-09	1.560E-09	1.359E-09	1.200E-09
NW	316	2.524E-09	1.975E-09	1.610E-09	1.431E-09	1.218E-09	1.060E-09	9.346E-10
NNW	213	1.894E-09	1.457E-09	1.180E-09	9.886E-10	8.446E-10	7.372E-10	6.519E-10
AVERAGE	7995	2.779E-09	2.192E-09	1.825E-09	1.542E-09	1.322E-09	1.168E-09	1.034E-09

Table B-4
Deposition D/Q Factors for Main Stack

PILGRIM 1ST QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE

AVERAGE DEPOSITION RATES (DEPLETED CHI/Q * DEP. VELOCITY MODEL -- MET. AND ATOMIC ENERGY 1968) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	93	1.049E-11	3.582E-10	1.641E-10	9.234E-11	8.335E-11	8.742E-11	8.972E-11	8.692E-11
NNE	230	1.849E-11	4.903E-10	2.391E-10	1.746E-10	1.741E-10	1.970E-10	2.075E-10	2.031E-10
NE	143	8.747E-12	2.875E-10	1.603E-10	1.118E-10	1.090E-10	1.275E-10	1.373E-10	1.358E-10
ENE	129	1.388E-11	4.383E-10	1.523E-10	7.686E-11	8.196E-11	1.141E-10	1.318E-10	1.346E-10
E	236	3.344E-11	9.913E-10	3.706E-10	1.997E-10	1.983E-10	2.187E-10	2.182E-10	2.059E-10
ESE	273	3.016E-11	8.752E-10	3.721E-10	2.484E-10	2.636E-10	2.983E-10	2.916E-10	2.690E-10
SE	214	4.271E-11	1.219E-09	6.252E-10	3.372E-10	2.908E-10	3.177E-10	2.415E-10	2.248E-10
SSE	110	2.386E-11	8.298E-10	4.421E-10	4.852E-10	5.297E-10	4.420E-10	3.656E-10	3.056E-10
S	75	2.266E-11	5.017E-10	2.463E-10	5.045E-10	4.843E-10	6.485E-10	6.021E-10	4.673E-10
SSW	86	5.898E-11	8.785E-10	4.750E-10	6.175E-10	1.236E-09	1.551E-09	1.012E-09	7.277E-10
SW	85	3.350E-11	4.383E-10	3.976E-10	6.780E-10	6.389E-10	5.302E-10	3.969E-10	3.082E-10
WSW	71	1.114E-10	7.164E-10	3.764E-10	3.288E-10	3.966E-10	3.650E-10	2.798E-10	2.211E-10
W	44	9.006E-11	9.461E-10	2.741E-10	1.493E-10	1.518E-10	1.375E-10	1.038E-10	8.611E-11
WNW	47	3.422E-11	5.934E-10	3.126E-10	1.560E-10	1.476E-10	1.260E-10	9.928E-11	8.563E-11
NW	54	1.280E-11	3.244E-10	1.236E-10	6.740E-11	6.715E-11	7.536E-11	7.726E-11	7.460E-11
NNW	47	3.065E-12	1.603E-10	8.303E-11	4.353E-11	3.919E-11	4.606E-11	5.078E-11	5.093E-11
AVERAGE	1937	3.428E-11	6.280E-10	3.009E-10	2.669E-10	3.058E-10	3.302E-10	2.691E-10	2.242E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	93	8.126E-11	7.543E-11	6.991E-11	6.501E-11	6.024E-11	4.245E-11	3.190E-11	2.052E-11
NNE	230	1.903E-10	1.770E-10	1.642E-10	1.528E-10	1.418E-10	1.002E-10	7.537E-11	4.864E-11
NE	143	1.280E-10	1.195E-10	1.112E-10	1.037E-10	9.650E-11	6.872E-11	5.195E-11	3.362E-11
ENE	129	1.290E-10	1.215E-10	1.136E-10	1.062E-10	9.874E-11	6.976E-11	5.217E-11	3.319E-11
E	236	1.891E-10	1.728E-10	1.581E-10	1.454E-10	1.335E-10	9.180E-11	6.817E-11	4.337E-11
ESE	273	2.426E-10	2.183E-10	1.972E-10	1.792E-10	1.631E-10	1.091E-10	7.965E-11	4.947E-11
SE	214	2.037E-10	1.841E-10	1.668E-10	1.520E-10	1.385E-10	9.251E-11	6.716E-11	4.125E-11
SSE	110	2.593E-10	2.236E-10	1.954E-10	1.724E-10	1.535E-10	9.614E-11	6.733E-11	4.349E-11
S	75	3.616E-10	2.910E-10	2.411E-10	2.042E-10	1.759E-10	9.941E-11	6.608E-11	3.667E-11
SSW	86	5.558E-10	4.427E-10	3.637E-10	3.059E-10	2.618E-10	1.433E-10	9.233E-11	4.819E-11
SW	85	2.481E-10	2.055E-10	1.740E-10	1.496E-10	1.304E-10	7.693E-11	5.231E-11	2.970E-11
WSW	71	1.798E-10	1.499E-10	1.276E-10	1.102E-10	9.642E-11	5.734E-11	3.919E-11	2.245E-11
W	44	7.264E-11	6.241E-11	5.451E-11	4.824E-11	4.292E-11	4.345E-11	3.050E-11	1.789E-11
WNW	47	7.452E-11	6.572E-11	5.866E-11	5.291E-11	4.781E-11	3.187E-11	2.797E-11	1.844E-11
NW	54	6.965E-11	6.469E-11	6.001E-11	5.583E-11	5.175E-11	5.172E-11	3.721E-11	2.576E-11
NNW	47	4.850E-11	4.558E-11	4.263E-11	3.992E-11	3.721E-11	2.663E-11	2.195E-11	2.801E-11
AVERAGE	1937	1.896E-10	1.637E-10	1.437E-10	1.277E-10	1.144E-10	7.508E-11	5.383E-11	3.379E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	93	1.468E-11	1.114E-11	8.789E-12	7.162E-12	5.946E-12	7.744E-12	6.491E-12
NNE	230	3.488E-11	2.657E-11	2.107E-11	1.724E-11	1.435E-11	1.219E-11	1.049E-11
NE	143	2.404E-11	1.820E-11	1.433E-11	1.165E-11	9.646E-12	8.162E-12	6.998E-12
ENE	129	2.352E-11	1.823E-11	1.549E-11	1.243E-11	1.016E-11	8.503E-12	7.210E-12
E	236	3.097E-11	2.358E-11	2.174E-11	1.754E-11	1.443E-11	1.215E-11	1.037E-11
ESE	273	3.480E-11	2.890E-11	2.252E-11	1.817E-11	1.495E-11	1.259E-11	1.075E-11
SE	214	2.869E-11	2.413E-11	1.853E-11	1.477E-11	1.203E-11	1.005E-11	8.521E-12
SSE	110	2.846E-11	2.028E-11	1.532E-11	1.206E-11	9.710E-12	8.026E-12	6.748E-12
S	75	2.377E-11	1.688E-11	1.275E-11	1.001E-11	8.027E-12	6.596E-12	5.511E-12
SSW	86	2.946E-11	1.987E-11	1.438E-11	1.091E-11	8.506E-12	6.837E-12	5.610E-12
SW	85	1.967E-11	1.414E-11	1.072E-11	8.436E-12	6.834E-12	5.596E-12	4.654E-12
WSW	71	1.499E-11	1.099E-11	8.696E-12	6.849E-12	5.518E-12	4.385E-12	3.676E-12
W	44	1.192E-11	8.514E-12	6.388E-12	4.976E-12	3.278E-12	2.354E-12	2.009E-12
WNW	47	1.354E-11	1.250E-11	1.120E-11	4.568E-12	3.260E-12	2.665E-12	2.235E-12
NW	54	1.716E-11	1.271E-11	9.638E-12	4.817E-12	3.745E-12	3.007E-12	2.465E-12
NNW	47	1.805E-11	1.265E-11	9.380E-12	7.223E-12	5.677E-12	4.573E-12	3.743E-12
AVERAGE	1937	2.304E-11	1.746E-11	1.381E-11	1.055E-11	8.505E-12	7.214E-12	6.092E-12

Table B-4
Deposition D/Q Factors for Main Stack

PILGRIM 2ND QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL

STACK RELEASE

AVERAGE DEPOSITION RATES (DEPLETED CHI/Q * DEP. VELOCITY MODEL -- MET. AND ATOMIC ENERGY 1968) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	87	7.665E-12	2.338E-10	1.682E-10	1.260E-10	1.186E-10	1.280E-10	1.314E-10	1.262E-10
NNE	337	2.052E-11	6.157E-10	4.728E-10	3.457E-10	3.291E-10	3.730E-10	3.914E-10	3.783E-10
NE	144	6.584E-12	2.410E-10	2.600E-10	1.938E-10	1.589E-10	1.467E-10	1.480E-10	1.430E-10
ENE	76	1.201E-12	5.818E-11	7.473E-11	5.611E-11	5.369E-11	6.919E-11	7.841E-11	7.887E-11
E	131	7.161E-12	2.158E-10	1.077E-10	7.428E-11	7.841E-11	1.048E-10	1.199E-10	1.222E-10
ESE	76	8.959E-12	2.806E-10	1.552E-10	1.186E-10	1.037E-10	9.028E-11	8.217E-11	7.506E-11
SE	52	4.120E-12	1.072E-10	1.344E-10	1.649E-10	1.484E-10	1.680E-10	1.191E-10	1.109E-10
SSE	85	2.883E-11	7.888E-10	4.970E-10	5.424E-10	6.575E-10	5.670E-10	4.556E-10	3.672E-10
S	114	6.354E-11	1.196E-09	9.490E-10	1.800E-09	1.557E-09	1.446E-09	1.115E-09	8.207E-10
SSW	154	1.173E-10	1.767E-09	1.427E-09	1.815E-09	2.852E-09	2.367E-09	1.495E-09	1.051E-09
SW	127	1.553E-10	9.472E-10	1.009E-09	1.330E-09	1.213E-09	9.743E-10	7.217E-10	5.541E-10
WSW	100	1.484E-10	1.120E-09	8.413E-10	7.266E-10	9.076E-10	8.574E-10	6.637E-10	5.260E-10
W	128	7.957E-11	9.425E-10	9.539E-10	9.113E-10	1.001E-09	9.311E-10	7.022E-10	5.749E-10
WNW	97	2.744E-11	3.610E-10	4.232E-10	4.466E-10	5.785E-10	6.277E-10	5.244E-10	4.534E-10
NW	67	5.083E-12	1.048E-10	1.137E-10	1.038E-10	1.183E-10	1.569E-10	1.670E-10	1.600E-10
NNW	51	2.256E-12	7.369E-11	6.902E-11	6.512E-11	7.163E-11	9.406E-11	1.033E-10	1.020E-10
AVERAGE	1826	4.275E-11	5.659E-10	4.785E-10	5.512E-10	6.216E-10	5.689E-10	4.387E-10	3.527E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	87	1.167E-10	1.069E-10	9.770E-11	8.961E-11	8.210E-11	5.508E-11	3.967E-11	2.378E-11
NNE	337	3.500E-10	3.209E-10	2.937E-10	2.698E-10	2.476E-10	1.681E-10	1.226E-10	7.524E-11
NE	144	1.335E-10	1.240E-10	1.151E-10	1.073E-10	9.974E-11	7.097E-11	5.369E-11	3.486E-11
ENE	76	7.474E-11	6.967E-11	6.457E-11	5.989E-11	5.546E-11	3.872E-11	2.884E-11	1.836E-11
E	131	1.171E-10	1.107E-10	1.040E-10	9.777E-11	9.152E-11	6.637E-11	5.067E-11	3.317E-11
ESE	76	6.840E-11	6.287E-11	5.817E-11	5.419E-11	5.045E-11	3.673E-11	2.860E-11	1.948E-11
SE	52	1.000E-10	8.986E-11	8.083E-11	7.309E-11	6.625E-11	4.311E-11	3.064E-11	1.816E-11
SSE	85	3.010E-10	2.518E-10	2.143E-10	1.847E-10	1.610E-10	9.327E-11	6.204E-11	3.495E-11
S	114	6.245E-10	4.942E-10	4.028E-10	3.349E-10	2.836E-10	1.498E-10	9.413E-11	4.771E-11
SSW	154	7.911E-10	6.216E-10	5.042E-10	4.180E-10	3.531E-10	1.858E-10	1.167E-10	5.923E-11
SW	127	4.391E-10	3.580E-10	2.984E-10	2.530E-10	2.175E-10	1.204E-10	7.747E-11	4.028E-11
WSW	100	4.269E-10	3.545E-10	3.000E-10	2.575E-10	2.237E-10	1.278E-10	8.367E-11	4.405E-11
W	128	4.742E-10	3.976E-10	3.385E-10	2.919E-10	2.544E-10	1.649E-10	1.031E-10	5.154E-11
WNW	97	3.879E-10	3.344E-10	2.669E-10	2.345E-10	2.076E-10	1.314E-10	9.012E-11	4.942E-11
NW	67	1.463E-10	1.323E-10	1.195E-10	1.084E-10	9.843E-11	8.092E-11	5.466E-11	3.185E-11
NNW	51	9.546E-11	8.786E-11	8.043E-11	7.375E-11	6.755E-11	4.500E-11	3.405E-11	2.844E-11
AVERAGE	1826	2.904E-10	2.448E-10	2.087E-10	1.818E-10	1.600E-10	9.865E-11	6.691E-11	3.816E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	87	1.620E-11	1.188E-11	9.148E-12	7.318E-12	5.986E-12	7.619E-12	6.322E-12
NNE	337	5.217E-11	3.882E-11	3.030E-11	2.450E-11	2.023E-11	1.710E-11	1.467E-11
NE	144	2.505E-11	1.908E-11	1.509E-11	1.232E-11	1.023E-11	8.682E-12	7.460E-12
ENE	76	1.315E-11	1.054E-11	1.007E-11	8.239E-12	6.863E-12	5.834E-12	5.019E-12
E	131	2.386E-11	1.809E-11	1.863E-11	1.488E-11	1.212E-11	1.011E-11	8.567E-12
ESE	76	1.442E-11	1.331E-11	1.044E-11	8.445E-12	6.942E-12	5.820E-12	4.942E-12
SE	52	1.226E-11	1.038E-11	7.736E-12	5.998E-12	4.756E-12	3.873E-12	3.207E-12
SSE	85	2.202E-11	1.524E-11	1.122E-11	8.625E-12	6.791E-12	5.503E-12	4.539E-12
S	114	2.918E-11	1.989E-11	1.458E-11	1.121E-11	8.879E-12	7.256E-12	6.046E-12
SSW	154	3.637E-11	2.487E-11	1.827E-11	1.409E-11	1.117E-11	9.144E-12	7.633E-12
SW	127	2.509E-11	1.729E-11	1.277E-11	9.888E-12	7.812E-12	6.417E-12	5.377E-12
WSW	100	2.717E-11	1.836E-11	1.250E-11	9.380E-12	7.268E-12	5.555E-12	4.578E-12
W	128	3.122E-11	2.105E-11	1.526E-11	1.162E-11	8.496E-12	6.483E-12	5.398E-12
WNW	97	3.174E-11	2.308E-11	1.701E-11	1.041E-11	7.784E-12	6.257E-12	5.132E-12
NW	67	1.997E-11	1.375E-11	9.985E-12	5.617E-12	4.370E-12	3.514E-12	2.882E-12
NNW	51	1.771E-11	1.215E-11	8.888E-12	6.781E-12	5.296E-12	4.253E-12	3.474E-12
AVERAGE	1826	2.485E-11	1.799E-11	1.387E-11	1.058E-11	8.437E-12	7.089E-12	5.953E-12

Table B-4
Deposition D/Q Factors for Main Stack

PILGRIM 3RD QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE
AVERAGE DEPOSITION RATES (DEPLETED CHI/Q * DEP. VELOCITY MODEL -- MET. AND ATOMIC ENERGY 1968) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	133	4.657E-12	1.562E-10	1.632E-10	1.287E-10	1.256E-10	1.557E-10	1.734E-10	1.733E-10
NNE	315	6.039E-12	2.083E-10	1.602E-10	1.338E-10	1.577E-10	2.445E-10	2.951E-10	3.071E-10
NE	229	7.569E-12	2.842E-10	1.860E-10	1.492E-10	1.581E-10	1.996E-10	2.189E-10	2.178E-10
ENE	111	2.145E-12	8.424E-11	7.043E-11	6.821E-11	7.363E-11	9.142E-11	9.942E-11	9.873E-11
E	158	4.170E-12	1.680E-10	1.588E-10	1.202E-10	1.098E-10	1.267E-10	1.416E-10	1.438E-10
ESE	103	3.734E-12	1.939E-10	2.657E-10	1.715E-10	1.210E-10	1.048E-10	1.087E-10	1.063E-10
SE	96	5.038E-12	2.108E-10	3.600E-10	2.253E-10	1.682E-10	1.964E-10	1.441E-10	1.432E-10
SSE	104	3.430E-11	9.729E-10	7.759E-10	5.719E-10	7.181E-10	6.478E-10	5.352E-10	4.387E-10
S	117	4.328E-11	7.736E-10	9.752E-10	1.761E-09	1.556E-09	1.620E-09	1.319E-09	9.807E-10
SSW	134	4.851E-11	8.085E-10	1.353E-09	1.707E-09	2.591E-09	2.339E-09	1.490E-09	1.052E-09
SW	91	5.098E-11	5.082E-10	7.496E-10	1.040E-09	9.982E-10	8.815E-10	6.892E-10	5.482E-10
WSW	74	8.647E-12	1.485E-10	4.489E-10	5.431E-10	7.896E-10	5.715E-10	4.433E-10	4.433E-10
W	89	3.435E-11	4.200E-10	5.739E-10	5.848E-10	6.348E-10	6.042E-10	4.631E-10	3.839E-10
WNW	122	9.199E-12	1.211E-10	4.459E-10	4.589E-10	5.634E-10	6.095E-10	5.243E-10	4.669E-10
NW	109	3.068E-12	6.649E-11	5.937E-11	6.357E-11	8.799E-11	1.437E-10	1.681E-10	1.705E-10
NNW	55	3.583E-11	1.602E-13	6.286E-12	1.062E-11	1.651E-11	3.697E-11	5.206E-11	5.839E-11
AVERAGE	2040	1.661E-11	3.203E-10	4.220E-10	4.836E-10	5.543E-10	5.474E-10	4.371E-10	3.583E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	133	1.634E-10	1.517E-10	1.401E-10	1.295E-10	1.195E-10	8.180E-11	5.959E-11	3.629E-11
NNE	315	2.965E-10	2.810E-10	2.639E-10	2.476E-10	2.313E-10	1.649E-10	1.235E-10	7.838E-11
NE	229	2.057E-10	1.919E-10	1.784E-10	1.661E-10	1.542E-10	1.090E-10	8.179E-11	5.246E-11
ENE	111	9.324E-11	8.708E-11	8.103E-11	7.554E-11	7.027E-11	4.996E-11	3.773E-11	2.447E-11
E	158	1.380E-10	1.306E-10	1.228E-10	1.155E-10	1.082E-10	7.822E-11	5.942E-11	3.868E-11
ESE	103	9.988E-11	9.323E-11	8.684E-11	8.107E-11	7.551E-11	5.406E-11	4.107E-11	2.686E-11
SE	96	1.348E-10	1.255E-10	1.165E-10	1.082E-10	1.003E-10	7.010E-11	5.200E-11	3.257E-11
SSE	104	3.642E-10	3.078E-10	2.640E-10	2.291E-10	2.010E-10	1.191E-10	8.048E-11	4.817E-11
S	117	7.458E-10	5.897E-10	4.800E-10	3.988E-10	3.375E-10	1.772E-10	1.102E-10	5.439E-11
SSW	134	7.924E-10	6.227E-10	5.049E-10	4.186E-10	3.537E-10	1.850E-10	1.149E-10	5.679E-11
SW	91	4.454E-10	3.699E-10	3.127E-10	2.678E-10	2.322E-10	1.305E-10	8.373E-11	4.220E-11
WSW	74	3.546E-10	2.915E-10	2.448E-10	2.087E-10	1.806E-10	1.025E-10	6.710E-11	3.546E-11
W	89	3.199E-10	2.707E-10	2.325E-10	2.020E-10	1.774E-10	1.398E-10	9.048E-11	4.730E-11
WNW	122	4.095E-10	3.614E-10	2.943E-10	2.633E-10	2.369E-10	1.632E-10	1.177E-10	6.751E-11
NW	109	1.622E-10	1.519E-10	1.414E-10	1.317E-10	1.223E-10	1.233E-10	8.689E-11	5.668E-11
NNW	55	5.871E-11	5.725E-11	5.492E-11	5.242E-11	4.959E-11	3.645E-11	3.046E-11	4.025E-11
AVERAGE	2040	2.990E-10	2.552E-10	2.199E-10	1.935E-10	1.719E-10	1.116E-10	7.732E-11	4.615E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	133	2.491E-11	1.833E-11	1.414E-11	1.131E-11	9.217E-12	9.134E-12	7.581E-12
NNE	315	5.537E-11	4.165E-11	3.265E-11	2.645E-11	2.183E-11	1.841E-11	1.572E-11
NE	229	3.752E-11	2.851E-11	2.253E-11	1.837E-11	1.526E-11	1.294E-11	1.110E-11
ENE	111	1.767E-11	1.421E-11	1.347E-11	1.100E-11	9.148E-12	7.766E-12	6.675E-12
E	158	2.785E-11	2.125E-11	2.266E-11	1.824E-11	1.494E-11	1.251E-11	1.060E-11
ESE	103	1.942E-11	1.782E-11	1.399E-11	1.133E-11	9.345E-12	7.866E-12	6.705E-12
SE	96	2.267E-11	2.064E-11	1.545E-11	1.198E-11	9.477E-12	7.680E-12	6.316E-12
SSE	104	3.081E-11	2.151E-11	1.592E-11	1.226E-11	9.653E-12	7.805E-12	6.414E-12
S	117	3.223E-11	2.126E-11	1.509E-11	1.125E-11	8.640E-12	6.862E-12	5.573E-12
SSW	134	3.371E-11	2.228E-11	1.588E-11	1.191E-11	9.227E-12	7.402E-12	6.075E-12
SW	91	2.505E-11	1.640E-11	1.153E-11	8.524E-12	6.427E-12	5.071E-12	4.094E-12
WSW	74	2.204E-11	1.507E-11	1.048E-11	7.615E-12	5.703E-12	4.036E-12	3.228E-12
W	89	2.920E-11	1.974E-11	1.419E-11	1.065E-11	6.768E-12	4.488E-12	3.655E-12
WNW	122	4.412E-11	3.285E-11	2.467E-11	1.350E-11	9.448E-12	7.360E-12	5.865E-12
NW	109	3.653E-11	2.597E-11	1.913E-11	9.616E-12	7.310E-12	5.741E-12	4.600E-12
NNW	55	2.542E-11	1.742E-11	1.263E-11	9.509E-12	7.305E-12	5.756E-12	4.610E-12
AVERAGE	2040	3.028E-11	2.218E-11	1.715E-11	1.272E-11	9.981E-12	8.176E-12	6.801E-12

Table B-4
Deposition D/Q Factors for Main Stack

PILGRIM 4TH QUARTER 2000 GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL
STACK RELEASE
AVERAGE DEPOSITION RATES (DEPLETED CHI/Q * DEP. VELOCITY MODEL -- MET. AND ATOMIC ENERGY 1968) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	51	2.388E-20	5.436E-13	1.870E-11	2.849E-11	3.445E-11	5.069E-11	6.102E-11	6.410E-11
NNE	122	5.111E-13	2.513E-11	5.805E-11	7.610E-11	9.346E-11	1.304E-10	1.454E-10	1.445E-10
NE	164	4.286E-12	1.519E-10	1.053E-10	9.473E-11	1.116E-10	1.544E-10	1.729E-10	1.734E-10
ENE	254	5.432E-12	2.201E-10	2.961E-10	2.265E-10	2.107E-10	2.435E-10	2.603E-10	2.537E-10
E	349	1.152E-11	3.675E-10	2.920E-10	2.348E-10	2.593E-10	3.366E-10	3.609E-10	3.504E-10
ESE	293	1.644E-11	5.779E-10	3.690E-10	2.812E-10	3.016E-10	3.606E-10	3.632E-10	3.383E-10
SE	204	1.368E-11	4.249E-10	2.444E-10	1.930E-10	2.319E-10	3.208E-10	2.525E-10	2.358E-10
SSE	138	1.148E-11	3.595E-10	3.462E-10	6.736E-10	7.903E-10	6.633E-10	5.321E-10	4.304E-10
S	153	2.273E-11	5.018E-10	9.657E-10	1.945E-09	1.663E-09	1.546E-09	1.251E-09	9.444E-10
SSW	71	2.431E-11	5.725E-10	6.195E-10	9.151E-10	1.479E-09	1.148E-09	7.223E-10	5.058E-10
SW	58	4.537E-12	8.469E-11	4.156E-10	7.283E-10	6.738E-10	5.463E-10	4.050E-10	3.106E-10
WSW	54	8.617E-12	7.858E-11	2.384E-10	3.277E-10	4.657E-10	4.445E-10	3.404E-10	2.671E-10
W	60	5.568E-12	9.435E-11	2.021E-10	2.992E-10	3.595E-10	3.526E-10	2.688E-10	2.202E-10
WNW	75	1.568E-12	2.136E-11	7.121E-11	1.876E-10	2.994E-10	3.564E-10	3.013E-10	2.619E-10
NW	86	5.139E-15	6.778E-12	6.090E-11	8.552E-11	1.043E-10	1.443E-10	1.594E-10	1.567E-10
NNW	60	3.118E-37	4.076E-19	1.894E-13	3.545E-12	1.249E-11	3.869E-11	5.640E-11	6.338E-11
AVERAGE	2192	8.168E-12	2.180E-10	2.690E-10	3.938E-10	4.432E-10	4.273E-10	3.533E-10	2.950E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	51	6.237E-11	5.945E-11	5.609E-11	5.283E-11	4.947E-11	3.523E-11	2.614E-11	1.616E-11
NNE	122	1.357E-10	1.257E-10	1.159E-10	1.071E-10	9.885E-11	6.801E-11	4.991E-11	3.082E-11
NE	164	1.642E-10	1.533E-10	1.424E-10	1.323E-10	1.227E-10	8.543E-11	6.295E-11	3.896E-11
ENE	254	2.356E-10	2.165E-10	1.985E-10	1.825E-10	1.678E-10	1.145E-10	8.388E-11	5.188E-11
E	349	3.247E-10	2.976E-10	2.722E-10	2.497E-10	2.291E-10	1.551E-10	1.127E-10	6.867E-11
ESE	293	3.052E-10	2.739E-10	2.464E-10	2.230E-10	2.023E-10	1.330E-10	9.541E-11	5.732E-11
SE	204	2.132E-10	1.921E-10	1.736E-10	1.579E-10	1.440E-10	9.698E-11	7.063E-11	4.275E-11
SSE	138	3.545E-10	2.979E-10	2.546E-10	2.204E-10	1.931E-10	1.141E-10	7.707E-11	4.536E-11
S	153	7.219E-10	5.731E-10	4.683E-10	3.905E-10	3.318E-10	1.774E-10	1.123E-10	5.734E-11
SSW	71	3.797E-10	2.975E-10	2.405E-10	1.987E-10	1.674E-10	8.739E-11	5.488E-11	2.809E-11
SW	58	2.456E-10	1.997E-10	1.661E-10	1.404E-10	1.205E-10	6.598E-11	4.189E-11	2.112E-11
WSW	54	2.147E-10	1.769E-10	1.486E-10	1.268E-10	1.097E-10	6.166E-11	3.983E-11	2.048E-11
W	60	1.811E-10	1.514E-10	1.285E-10	1.105E-10	9.604E-11	6.057E-11	3.786E-11	1.897E-11
WNW	75	2.243E-10	1.935E-10	1.685E-10	1.481E-10	1.311E-10	7.508E-11	5.596E-11	3.004E-11
NW	86	1.456E-10	1.337E-10	1.223E-10	1.121E-10	1.027E-10	8.841E-11	5.997E-11	3.551E-11
NNW	60	6.349E-11	6.160E-11	5.881E-11	5.588E-11	5.265E-11	3.813E-11	3.104E-11	3.012E-11
AVERAGE	2192	2.482E-10	2.127E-10	1.851E-10	1.630E-10	1.449E-10	9.106E-11	6.328E-11	3.710E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	51	1.108E-11	8.071E-12	6.129E-12	4.816E-12	3.856E-12	3.682E-12	2.944E-12
NNE	122	2.140E-11	1.589E-11	1.234E-11	9.915E-12	8.118E-12	6.798E-12	5.769E-12
NE	164	2.703E-11	2.004E-11	1.554E-11	1.247E-11	1.021E-11	8.555E-12	7.267E-12
ENE	254	3.623E-11	2.781E-11	2.364E-11	1.903E-11	1.563E-11	1.314E-11	1.121E-11
E	349	4.739E-11	3.509E-11	3.212E-11	2.546E-11	2.062E-11	1.712E-11	1.444E-11
ESE	293	3.922E-11	3.091E-11	2.368E-11	1.884E-11	1.533E-11	1.279E-11	1.084E-11
SE	204	2.900E-11	2.476E-11	1.859E-11	1.453E-11	1.163E-11	9.551E-12	7.978E-12
SSE	138	2.890E-11	2.013E-11	1.490E-11	1.148E-11	9.052E-12	7.339E-12	6.053E-12
S	153	3.476E-11	2.326E-11	1.667E-11	1.251E-11	9.658E-12	7.699E-12	6.268E-12
SSW	71	1.732E-11	1.186E-11	8.689E-12	6.664E-12	5.247E-12	4.258E-12	3.519E-12
SW	58	1.277E-11	8.557E-12	6.159E-12	4.657E-12	3.586E-12	2.890E-12	2.379E-12
WSW	54	1.244E-11	8.304E-12	5.625E-12	4.165E-12	3.179E-12	2.372E-12	1.920E-12
W	60	1.154E-11	7.811E-12	5.676E-12	4.324E-12	3.191E-12	2.430E-12	2.007E-12
WNW	75	1.888E-11	1.312E-11	9.318E-12	6.084E-12	4.527E-12	3.609E-12	2.935E-12
NW	86	2.247E-11	1.568E-11	1.152E-11	6.684E-12	5.189E-12	4.157E-12	3.392E-12
NNW	60	1.880E-11	1.286E-11	9.357E-12	7.094E-12	5.503E-12	4.390E-12	3.560E-12
AVERAGE	2192	2.433E-11	1.776E-11	1.375E-11	1.055E-11	8.408E-12	6.924E-12	5.780E-12

Table B-4
Deposition D/Q Factors for Main Stack

PILGRIM 2000 ANNUAL GENERAL ELEVATED X/Q'S -- SECTOR AVERAGE MODEL

STACK RELEASE

AVERAGE DEPOSITION RATES (DEPLETED CHI/Q * DEP. VELOCITY MODEL -- MET. AND ATOMIC ENERGY 1968) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	364	5.481E-12	1.802E-10	1.250E-10	9.181E-11	8.877E-11	1.040E-10	1.127E-10	1.117E-10
NNE	1004	1.085E-11	3.194E-10	2.227E-10	1.763E-10	1.832E-10	2.311E-10	2.548E-10	2.536E-10
NE	680	6.729E-12	2.389E-10	1.745E-10	1.354E-10	1.336E-10	1.576E-10	1.703E-10	1.687E-10
ENE	570	5.674E-12	2.013E-10	1.531E-10	1.109E-10	1.087E-10	1.335E-10	1.466E-10	1.454E-10
E	874	1.396E-11	4.331E-10	2.350E-10	1.604E-10	1.651E-10	2.016E-10	2.153E-10	2.106E-10
ESE	745	1.481E-11	4.840E-10	2.946E-10	2.082E-10	2.011E-10	2.185E-10	2.167E-10	2.022E-10
SE	566	1.548E-11	4.595E-10	3.125E-10	2.157E-10	2.027E-10	2.440E-10	1.917E-10	1.810E-10
SSE	437	1.813E-11	5.564E-10	4.026E-10	5.720E-10	6.784E-10	5.837E-10	4.751E-10	3.878E-10
S	459	3.351E-11	6.606E-10	7.900E-10	1.516E-09	1.326E-09	1.325E-09	1.080E-09	8.098E-10
SSW	445	5.767E-11	9.417E-10	9.559E-10	1.250E-09	2.017E-09	1.828E-09	1.165E-09	8.233E-10
SW	361	5.437E-11	4.507E-10	5.968E-10	9.331E-10	8.712E-10	7.257E-10	5.479E-10	4.262E-10
WSW	299	5.968E-11	4.409E-10	4.397E-10	4.740E-10	6.325E-10	5.994E-10	4.586E-10	3.600E-10
W	321	5.028E-11	5.775E-10	4.601E-10	4.716E-10	5.258E-10	4.968E-10	3.774E-10	3.105E-10
WNW	341	1.734E-11	2.630E-10	2.895E-10	2.901E-10	3.725E-10	4.041E-10	3.391E-10	2.967E-10
NW	316	5.047E-12	1.214E-10	8.775E-11	7.970E-11	9.431E-11	1.303E-10	1.435E-10	1.411E-10
NNW	213	1.258E-12	5.572E-11	3.753E-11	2.910E-11	3.349E-11	5.268E-11	6.465E-11	6.792E-11
AVERAGE	7995	2.314E-11	3.990E-10	3.486E-10	4.197E-10	4.772E-10	4.647E-10	3.725E-10	3.060E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	364	1.051E-10	9.769E-11	9.037E-11	8.375E-11	7.740E-11	5.340E-11	3.916E-11	2.409E-11
NNE	1004	2.389E-10	2.223E-10	2.060E-10	1.912E-10	1.770E-10	1.234E-10	9.145E-11	5.742E-11
NE	680	1.590E-10	1.483E-10	1.378E-10	1.283E-10	1.191E-10	8.408E-11	6.298E-11	4.017E-11
ENE	570	1.367E-10	1.269E-10	1.173E-10	1.087E-10	1.005E-10	6.989E-11	5.185E-11	3.270E-11
E	874	1.968E-10	1.821E-10	1.680E-10	1.555E-10	1.437E-10	9.988E-11	7.415E-11	4.678E-11
ESE	745	1.835E-10	1.661E-10	1.508E-10	1.376E-10	1.258E-10	8.509E-11	6.247E-11	3.900E-11
SE	566	1.650E-10	1.498E-10	1.362E-10	1.244E-10	1.138E-10	7.674E-11	5.590E-11	3.417E-11
SSE	437	3.217E-10	2.719E-10	2.335E-10	2.029E-10	1.782E-10	1.063E-10	7.215E-11	4.325E-11
S	459	6.185E-10	4.910E-10	4.013E-10	3.348E-10	2.845E-10	1.521E-10	9.643E-11	4.938E-11
SSW	445	6.216E-10	4.897E-10	3.980E-10	3.308E-10	2.802E-10	1.483E-10	9.339E-11	4.739E-11
SW	361	3.414E-10	2.807E-10	2.356E-10	2.009E-10	1.735E-10	9.752E-11	6.322E-11	3.296E-11
WSW	299	2.904E-10	2.402E-10	2.026E-10	1.735E-10	1.506E-10	8.614E-11	5.665E-11	3.016E-11
W	321	2.572E-10	2.165E-10	1.851E-10	1.602E-10	1.401E-10	1.005E-10	6.441E-11	3.338E-11
WNW	341	2.565E-10	2.235E-10	1.965E-10	1.742E-10	1.554E-10	9.345E-11	7.273E-11	4.122E-11
NW	316	1.316E-10	1.213E-10	1.115E-10	1.026E-10	9.437E-11	8.672E-11	6.011E-11	3.771E-11
NNW	213	6.594E-11	6.261E-11	5.884E-11	5.521E-11	5.153E-11	3.649E-11	2.938E-11	3.181E-11
AVERAGE	7995	2.556E-10	2.182E-10	1.893E-10	1.665E-10	1.479E-10	9.375E-11	6.540E-11	3.885E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	364	1.665E-11	1.230E-11	9.508E-12	7.612E-12	6.217E-12	6.956E-12	5.758E-12
NNE	1004	4.036E-11	3.029E-11	2.374E-11	1.924E-11	1.589E-11	1.342E-11	1.148E-11
NE	680	2.853E-11	2.154E-11	1.692E-11	1.374E-11	1.137E-11	9.607E-12	8.225E-12
ENE	570	2.314E-11	1.807E-11	1.597E-11	1.292E-11	1.065E-11	8.978E-12	7.669E-12
E	874	3.305E-11	2.489E-11	2.411E-11	1.928E-11	1.573E-11	1.314E-11	1.113E-11
ESE	745	2.744E-11	2.306E-11	1.790E-11	1.439E-11	1.179E-11	9.892E-12	8.415E-12
SE	566	2.349E-11	2.027E-11	1.529E-11	1.199E-11	9.606E-12	7.897E-12	6.596E-12
SSE	437	2.771E-11	1.940E-11	1.442E-11	1.117E-11	8.848E-12	7.205E-12	5.968E-12
S	459	3.018E-11	2.043E-11	1.484E-11	1.129E-11	8.825E-12	7.117E-12	5.856E-12
SSW	445	2.879E-11	1.943E-11	1.409E-11	1.073E-11	8.405E-12	6.801E-12	5.618E-12
SW	361	2.039E-11	1.391E-11	1.014E-11	7.754E-12	6.063E-12	4.907E-12	4.053E-12
WSW	299	1.887E-11	1.298E-11	9.178E-12	6.887E-12	5.323E-12	4.011E-12	3.286E-12
W	321	2.063E-11	1.405E-11	1.021E-11	7.762E-12	5.336E-12	3.862E-12	3.203E-12
WNW	341	2.697E-11	2.028E-11	1.545E-11	8.596E-12	6.220E-12	4.942E-12	4.015E-12
NW	316	2.420E-11	1.715E-11	1.265E-11	6.736E-12	5.193E-12	4.136E-12	3.359E-12
NNW	213	2.006E-11	1.381E-11	1.009E-11	7.670E-12	5.958E-12	4.752E-12	3.853E-12
AVERAGE	7995	2.565E-11	1.887E-11	1.466E-11	1.111E-11	8.839E-12	7.351E-12	6.156E-12

Table B-5
Undepleted χ/Q Factors for Reactor Building Vent

PILGRIM 1ST QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	145	2.405E-05	7.011E-06	2.296E-06	1.258E-06	8.233E-07	4.564E-07	3.006E-07	2.185E-07
NNE	250	3.970E-05	1.164E-05	3.824E-06	2.094E-06	1.369E-06	7.584E-07	4.993E-07	3.626E-07
NE	169	3.732E-05	1.090E-05	3.459E-06	1.885E-06	1.234E-06	6.925E-07	4.598E-07	3.360E-07
ENE	161	3.645E-05	1.058E-05	3.523E-06	1.939E-06	1.270E-06	7.041E-07	4.634E-07	3.367E-07
E	282	3.322E-05	9.880E-06	3.331E-06	1.818E-06	1.187E-06	6.448E-07	4.193E-07	3.019E-07
ESE	225	2.594E-05	7.738E-06	2.577E-06	1.394E-06	9.058E-07	4.945E-07	3.231E-07	2.333E-07
SE	173	2.012E-05	5.903E-06	1.936E-06	1.042E-06	6.767E-07	3.728E-07	2.453E-07	1.782E-07
SSE	55	1.135E-05	3.321E-06	1.090E-06	5.941E-07	3.881E-07	2.131E-07	1.397E-07	1.013E-07
S	61	1.546E-05	4.535E-06	1.278E-06	6.840E-07	4.442E-07	2.514E-07	1.684E-07	1.237E-07
SSW	66	1.540E-05	4.455E-06	1.266E-06	6.831E-07	4.456E-07	2.523E-07	1.690E-07	1.242E-07
SW	40	7.243E-06	2.114E-06	6.098E-07	3.270E-07	2.122E-07	1.189E-07	7.923E-08	5.803E-08
WSW	58	9.086E-06	2.648E-06	7.986E-07	4.330E-07	2.827E-07	1.547E-07	1.010E-07	7.309E-08
W	59	7.113E-06	2.030E-06	5.788E-07	3.408E-07	2.244E-07	1.235E-07	7.388E-08	5.385E-08
WNW	40	7.596E-06	2.230E-06	6.756E-07	3.540E-07	2.280E-07	1.290E-07	9.542E-08	7.029E-08
NW	39	1.096E-05	3.177E-06	1.068E-06	5.742E-07	3.702E-07	2.047E-07	1.353E-07	9.850E-08
NNW	59	1.509E-05	4.441E-06	1.449E-06	7.824E-07	5.072E-07	2.820E-07	1.868E-07	1.362E-07
AVERAGE	1882	1.976E-05	5.787E-06	1.860E-06	1.013E-06	6.605E-07	3.658E-07	2.412E-07	1.754E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	145	1.694E-07	1.367E-07	1.136E-07	9.650E-08	8.344E-08	4.851E-08	3.331E-08	1.973E-08
NNE	250	2.808E-07	2.263E-07	1.880E-07	1.596E-07	1.379E-07	8.007E-08	5.488E-08	3.240E-08
NE	169	2.611E-07	2.112E-07	1.759E-07	1.498E-07	1.299E-07	7.609E-08	5.250E-08	3.130E-08
ENE	161	2.609E-07	2.105E-07	1.748E-07	1.483E-07	1.281E-07	7.428E-08	5.089E-08	3.006E-08
E	282	2.323E-07	1.864E-07	1.542E-07	1.304E-07	1.123E-07	6.453E-08	4.384E-08	2.550E-08
ESE	225	1.796E-07	1.442E-07	1.194E-07	1.011E-07	8.713E-08	5.021E-08	3.417E-08	1.994E-08
SE	173	1.378E-07	1.111E-07	1.015E-07	8.617E-08	7.445E-08	3.925E-08	2.687E-08	1.584E-08
SSE	55	7.847E-08	6.329E-08	5.258E-08	4.462E-08	3.855E-08	2.237E-08	1.535E-08	9.079E-09
S	61	9.625E-08	7.797E-08	6.508E-08	5.556E-08	4.826E-08	2.842E-08	1.966E-08	1.178E-08
SSW	66	9.688E-08	7.860E-08	6.566E-08	5.606E-08	4.869E-08	2.868E-08	1.986E-08	1.192E-08
SW	40	4.513E-08	3.654E-08	3.047E-08	2.597E-08	2.252E-08	1.320E-08	9.109E-09	5.434E-09
WSW	58	5.651E-08	4.551E-08	4.155E-08	3.522E-08	3.038E-08	1.596E-08	1.092E-08	6.442E-09
W	59	4.200E-08	3.409E-08	2.850E-08	2.432E-08	2.107E-08	1.238E-08	8.559E-09	5.120E-09
WNW	40	5.477E-08	4.445E-08	3.378E-08	2.890E-08	2.514E-08	1.487E-08	1.033E-08	6.226E-09
NW	39	7.634E-08	6.155E-08	5.112E-08	4.335E-08	3.744E-08	2.163E-08	1.482E-08	8.786E-09
NNW	59	1.055E-07	8.509E-08	7.073E-08	6.010E-08	5.200E-08	3.025E-08	2.075E-08	1.227E-08
AVERAGE	1882	1.359E-07	1.096E-07	9.168E-08	7.787E-08	6.733E-08	3.879E-08	2.661E-08	1.574E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		25.00	30.00	34.95	40.00	45.00	50.00	
N	145	1.366E-08	1.032E-08	8.267E-09	6.861E-09	5.812E-09	5.034E-09	4.421E-09
NNE	250	2.238E-08	1.689E-08	1.352E-08	1.121E-08	9.488E-09	8.213E-09	7.210E-09
NE	169	2.174E-08	1.647E-08	1.323E-08	1.100E-08	9.331E-09	8.086E-09	7.107E-09
ENE	161	2.075E-08	1.565E-08	1.253E-08	1.038E-08	8.789E-09	7.608E-09	6.678E-09
E	282	1.751E-08	1.315E-08	1.048E-08	8.668E-09	7.321E-09	6.330E-09	5.552E-09
ESE	225	1.371E-08	1.032E-08	8.239E-09	6.822E-09	5.770E-09	4.994E-09	4.385E-09
SE	173	1.096E-08	8.289E-09	6.643E-09	5.518E-09	4.681E-09	4.061E-09	3.574E-09
SSE	55	6.285E-09	4.750E-09	3.806E-09	3.159E-09	2.677E-09	2.320E-09	2.039E-09
S	61	8.206E-09	6.235E-09	5.020E-09	4.183E-09	3.557E-09	3.088E-09	2.719E-09
SSW	66	8.308E-09	6.313E-09	5.083E-09	4.235E-09	3.600E-09	3.126E-09	2.752E-09
SW	40	3.779E-09	2.867E-09	2.305E-09	1.919E-09	1.631E-09	1.416E-09	1.247E-09
WSW	58	4.460E-09	3.372E-09	2.702E-09	2.243E-09	1.903E-09	1.651E-09	1.453E-09
W	59	3.585E-09	2.733E-09	2.202E-09	1.838E-09	1.567E-09	1.365E-09	1.206E-09
WNW	40	4.363E-09	3.330E-09	2.690E-09	2.248E-09	1.918E-09	1.669E-09	1.474E-09
NW	39	6.084E-09	4.603E-09	3.692E-09	3.069E-09	2.605E-09	2.262E-09	1.991E-09
NNW	59	8.485E-09	6.411E-09	5.138E-09	4.266E-09	3.617E-09	3.134E-09	2.754E-09
AVERAGE	1882	1.089E-08	8.231E-09	6.596E-09	5.476E-09	4.642E-09	4.022E-09	3.535E-09

Table B-5
Undepleted χ/Q Factors for Reactor Building Vent

PILGRIM 2ND QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	119	2.241E-05	6.654E-06	2.315E-06	1.253E-06	8.074E-07	4.368E-07	2.842E-07	2.046E-07
NNE	360	5.507E-05	1.633E-05	5.497E-06	2.988E-06	1.938E-06	1.059E-06	6.924E-07	5.005E-07
NE	173	4.897E-05	1.430E-05	4.500E-06	2.437E-06	1.587E-06	8.965E-07	5.987E-07	4.389E-07
ENE	116	3.605E-05	1.047E-05	3.449E-06	1.894E-06	1.239E-06	6.894E-07	4.555E-07	3.318E-07
E	82	2.049E-05	6.041E-06	2.024E-06	1.121E-06	7.365E-07	4.038E-07	2.633E-07	1.900E-07
ESE	56	1.404E-05	4.146E-06	1.472E-06	8.043E-07	5.211E-07	2.799E-07	1.809E-07	1.297E-07
SE	45	1.115E-05	3.296E-06	1.274E-06	7.038E-07	4.597E-07	2.479E-07	1.455E-07	1.042E-07
SSE	45	1.148E-05	3.430E-06	1.187E-06	5.913E-07	3.848E-07	2.082E-07	1.349E-07	9.685E-08
S	83	1.923E-05	5.644E-06	1.658E-06	9.078E-07	5.905E-07	3.174E-07	2.051E-07	1.472E-07
SSW	157	2.318E-05	6.972E-06	2.215E-06	1.204E-06	7.803E-07	4.175E-07	2.694E-07	1.928E-07
SW	170	2.069E-05	6.364E-06	2.005E-06	1.075E-06	6.914E-07	3.662E-07	2.347E-07	1.670E-07
WSW	141	2.720E-05	8.220E-06	2.579E-06	1.392E-06	8.987E-07	4.818E-07	3.112E-07	2.228E-07
W	136	2.670E-05	8.249E-06	2.616E-06	1.569E-06	1.015E-06	5.409E-07	3.156E-07	2.247E-07
WNW	54	1.320E-05	3.938E-06	1.394E-06	7.506E-07	4.814E-07	2.593E-07	1.853E-07	1.332E-07
NW	57	1.486E-05	4.387E-06	1.588E-06	8.648E-07	5.572E-07	2.992E-07	1.937E-07	1.390E-07
NNW	32	9.675E-06	2.881E-06	1.071E-06	5.871E-07	3.792E-07	2.013E-07	1.290E-07	9.192E-08
AVERAGE	1826	2.340E-05	6.957E-06	2.303E-06	1.259E-06	8.167E-07	4.440E-07	2.875E-07	2.072E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	119	1.572E-07	1.259E-07	1.039E-07	8.764E-08	7.534E-08	4.294E-08	2.908E-08	1.692E-08
NNE	360	3.860E-07	3.101E-07	2.568E-07	2.173E-07	1.874E-07	1.079E-07	7.353E-08	4.308E-08
NE	173	3.415E-07	2.765E-07	2.306E-07	1.966E-07	1.706E-07	1.002E-07	6.928E-08	4.147E-08
ENE	116	2.575E-07	2.080E-07	1.729E-07	1.469E-07	1.270E-07	7.387E-08	5.074E-08	3.008E-08
E	82	1.466E-07	1.178E-07	9.761E-08	8.259E-08	7.122E-08	4.108E-08	2.804E-08	1.644E-08
ESE	56	9.953E-08	7.961E-08	6.564E-08	5.525E-08	4.741E-08	2.687E-08	1.814E-08	1.049E-08
SE	45	8.003E-08	6.403E-08	5.810E-08	4.892E-08	4.200E-08	2.388E-08	1.614E-08	9.346E-09
SSE	45	7.430E-08	5.944E-08	4.905E-08	4.135E-08	3.554E-08	2.027E-08	1.371E-08	7.923E-09
S	83	1.132E-07	9.067E-08	7.487E-08	6.308E-08	5.417E-08	3.081E-08	2.084E-08	1.209E-08
SSW	157	1.476E-07	1.179E-07	9.716E-08	8.182E-08	7.022E-08	3.988E-08	2.683E-08	1.537E-08
SW	170	1.270E-07	1.010E-07	8.295E-08	6.969E-08	5.968E-08	3.369E-08	2.258E-08	1.287E-08
WSW	141	1.705E-07	1.361E-07	1.234E-07	1.039E-07	8.921E-08	4.611E-08	3.110E-08	1.792E-08
W	136	1.709E-07	1.359E-07	1.116E-07	9.369E-08	8.027E-08	4.535E-08	3.037E-08	1.724E-08
WNW	54	1.021E-07	8.158E-08	6.112E-08	5.146E-08	4.418E-08	2.503E-08	1.687E-08	9.742E-09
NW	57	1.066E-07	8.524E-08	7.022E-08	5.904E-08	5.063E-08	2.859E-08	1.924E-08	1.109E-08
NNW	32	7.019E-08	5.588E-08	4.587E-08	3.842E-08	3.284E-08	1.836E-08	1.225E-08	6.964E-09
AVERAGE	1826	1.594E-07	1.278E-07	1.064E-07	8.985E-08	7.736E-08	4.405E-08	2.992E-08	1.744E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	119	1.160E-08	8.707E-09	6.939E-09	5.738E-09	4.849E-09	4.197E-09	3.684E-09
NNE	360	2.964E-08	2.231E-08	1.782E-08	1.475E-08	1.248E-08	1.080E-08	9.474E-09
NE	173	2.884E-08	2.188E-08	1.760E-08	1.465E-08	1.244E-08	1.079E-08	9.486E-09
ENE	116	2.080E-08	1.571E-08	1.259E-08	1.044E-08	8.844E-09	7.658E-09	6.723E-09
E	82	1.131E-08	8.502E-09	6.785E-09	5.611E-09	4.738E-09	4.093E-09	3.586E-09
ESE	56	7.171E-09	5.370E-09	4.269E-09	3.523E-09	2.971E-09	2.570E-09	2.253E-09
SE	45	6.385E-09	4.779E-09	3.798E-09	3.132E-09	2.639E-09	2.278E-09	1.995E-09
SSE	45	5.413E-09	4.052E-09	3.221E-09	2.657E-09	2.240E-09	1.934E-09	1.694E-09
S	83	8.280E-09	6.209E-09	4.941E-09	4.080E-09	3.444E-09	2.980E-09	2.613E-09
SSW	157	1.047E-08	7.816E-09	6.201E-09	5.108E-09	4.303E-09	3.716E-09	3.255E-09
SW	170	8.759E-09	6.542E-09	5.188E-09	4.275E-09	3.602E-09	3.112E-09	2.729E-09
WSW	141	1.225E-08	9.175E-09	7.296E-09	6.023E-09	5.083E-09	4.394E-09	3.854E-09
W	136	1.166E-08	8.671E-09	6.855E-09	5.628E-09	4.725E-09	4.066E-09	3.550E-09
WNW	54	6.652E-09	4.981E-09	3.962E-09	3.272E-09	2.762E-09	2.390E-09	2.098E-09
NW	57	7.555E-09	5.646E-09	4.482E-09	3.695E-09	3.114E-09	2.692E-09	2.360E-09
NNW	32	4.708E-09	3.496E-09	2.761E-09	2.266E-09	1.903E-09	1.641E-09	1.435E-09
AVERAGE	1826	1.197E-08	8.991E-09	7.169E-09	5.928E-09	5.008E-09	4.331E-09	3.799E-09

Table B-5
Undepleted χ/Q Factors for Reactor Building Vent

PILGRIM 3RD QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	221	4.806E-05	1.416E-05	4.803E-06	2.657E-06	1.741E-06	9.540E-07	6.227E-07	4.496E-07
NNE	363	7.246E-05	2.120E-05	6.986E-06	3.837E-06	2.510E-06	1.393E-06	9.182E-07	6.673E-07
NE	317	9.111E-05	2.666E-05	8.283E-06	4.428E-06	2.864E-06	1.629E-06	1.095E-06	8.061E-07
ENE	169	5.748E-05	1.677E-05	5.381E-06	2.943E-06	1.925E-06	1.080E-06	7.167E-07	5.235E-07
E	114	3.628E-05	1.065E-05	3.503E-06	1.942E-06	1.279E-06	7.067E-07	4.632E-07	3.355E-07
ESE	65	1.803E-05	5.259E-06	1.848E-06	1.023E-06	6.681E-07	3.612E-07	2.344E-07	1.688E-07
SE	66	1.687E-05	4.991E-06	1.931E-06	1.066E-06	6.946E-07	3.742E-07	2.200E-07	1.579E-07
SSE	63	1.343E-05	3.937E-06	1.390E-06	6.916E-07	4.493E-07	2.413E-07	1.562E-07	1.122E-07
S	89	1.818E-05	5.381E-06	1.599E-06	8.724E-07	5.649E-07	3.018E-07	1.946E-07	1.393E-07
SSW	147	2.110E-05	6.323E-06	2.044E-06	1.102E-06	7.084E-07	3.753E-07	2.415E-07	1.726E-07
SW	112	1.697E-05	5.301E-06	1.739E-06	9.345E-07	5.969E-07	3.128E-07	1.995E-07	1.413E-07
WSW	106	2.334E-05	7.135E-06	2.304E-06	1.256E-06	8.114E-07	4.329E-07	2.785E-07	1.986E-07
W	110	1.986E-05	5.980E-06	2.010E-06	1.208E-06	7.784E-07	4.118E-07	2.394E-07	1.701E-07
WNW	98	2.212E-05	6.496E-06	2.269E-06	1.263E-06	8.287E-07	4.497E-07	3.202E-07	2.299E-07
NW	51	1.763E-05	5.128E-06	1.821E-06	1.019E-06	6.696E-07	3.637E-07	2.357E-07	1.694E-07
NNW	77	3.494E-05	1.021E-05	3.368E-06	1.905E-06	1.269E-06	7.026E-07	4.592E-07	3.320E-07
AVERAGE	2168	3.299E-05	9.724E-06	3.205E-06	1.759E-06	1.147E-06	6.306E-07	4.122E-07	2.984E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	221	3.469E-07	2.787E-07	2.308E-07	1.952E-07	1.683E-07	9.685E-08	6.598E-08	3.857E-08
NNE	363	5.169E-07	4.168E-07	3.462E-07	2.938E-07	2.540E-07	1.475E-07	1.011E-07	5.973E-08
NE	317	6.279E-07	5.089E-07	4.249E-07	3.628E-07	3.153E-07	1.857E-07	1.286E-07	7.725E-08
ENE	169	4.068E-07	3.289E-07	2.739E-07	2.330E-07	2.019E-07	1.181E-07	8.138E-08	4.846E-08
E	114	2.596E-07	2.092E-07	1.736E-07	1.472E-07	1.272E-07	7.381E-08	5.059E-08	2.982E-08
ESE	65	1.302E-07	1.046E-07	8.651E-08	7.298E-08	6.278E-08	3.588E-08	2.436E-08	1.419E-08
SE	66	1.214E-07	9.722E-08	8.828E-08	7.437E-08	6.390E-08	3.639E-08	2.462E-08	1.425E-08
SSE	63	8.642E-08	6.930E-08	5.726E-08	4.826E-08	4.147E-08	2.361E-08	1.598E-08	9.274E-09
S	89	1.069E-07	8.544E-08	7.042E-08	5.924E-08	5.080E-08	2.876E-08	1.938E-08	1.117E-08
SSW	147	1.322E-07	1.055E-07	8.687E-08	7.302E-08	6.258E-08	3.536E-08	2.378E-08	1.367E-08
SW	112	1.069E-07	8.460E-08	6.917E-08	5.784E-08	4.936E-08	2.751E-08	1.823E-08	1.019E-08
WSW	106	1.513E-07	1.204E-07	1.088E-07	9.133E-08	7.824E-08	4.011E-08	2.683E-08	1.522E-08
W	110	1.296E-07	1.029E-07	8.437E-08	7.060E-08	6.029E-08	3.362E-08	2.240E-08	1.270E-08
WNW	98	1.769E-07	1.418E-07	1.065E-07	8.975E-08	7.715E-08	4.403E-08	2.986E-08	1.735E-08
NW	51	1.305E-07	1.047E-07	8.649E-08	7.289E-08	6.265E-08	3.571E-08	2.419E-08	1.404E-08
NNW	77	2.570E-07	2.071E-07	1.720E-07	1.458E-07	1.259E-07	7.310E-08	5.009E-08	2.946E-08
AVERAGE	2168	2.305E-07	1.854E-07	1.541E-07	1.305E-07	1.126E-07	6.475E-08	4.421E-08	2.596E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	221	2.648E-08	1.988E-08	1.585E-08	1.310E-08	1.106E-08	9.548E-09	8.363E-09
NNE	363	4.124E-08	3.111E-08	2.490E-08	2.064E-08	1.747E-08	1.511E-08	1.326E-08
NE	317	5.385E-08	4.093E-08	3.297E-08	2.748E-08	2.337E-08	2.029E-08	1.787E-08
ENE	169	3.360E-08	2.543E-08	2.040E-08	1.695E-08	1.437E-08	1.244E-08	1.093E-08
E	114	2.057E-08	1.550E-08	1.239E-08	1.026E-08	8.673E-09	7.495E-09	6.569E-09
ESE	65	9.720E-09	7.287E-09	5.799E-09	4.786E-09	4.036E-09	3.487E-09	3.054E-09
SE	66	9.733E-09	7.281E-09	5.784E-09	4.768E-09	4.016E-09	3.466E-09	3.034E-09
SSE	63	6.348E-09	4.759E-09	3.786E-09	3.126E-09	2.638E-09	2.282E-09	2.001E-09
S	89	7.626E-09	5.705E-09	4.531E-09	3.737E-09	3.151E-09	2.724E-09	2.388E-09
SSW	147	9.329E-09	6.978E-09	5.541E-09	4.570E-09	3.854E-09	3.335E-09	2.925E-09
SW	112	6.850E-09	5.066E-09	3.988E-09	3.265E-09	2.736E-09	2.355E-09	2.057E-09
WSW	106	1.029E-08	7.644E-09	6.041E-09	4.959E-09	4.163E-09	3.584E-09	3.131E-09
W	110	8.574E-09	6.364E-09	5.023E-09	4.121E-09	3.460E-09	2.983E-09	2.608E-09
WNW	98	1.187E-08	8.888E-09	7.068E-09	5.829E-09	4.912E-09	4.239E-09	3.709E-09
NW	51	9.589E-09	7.172E-09	5.698E-09	4.696E-09	3.954E-09	3.411E-09	2.983E-09
NNW	77	2.027E-08	1.524E-08	1.216E-08	1.005E-08	8.474E-09	7.307E-09	6.390E-09
AVERAGE	2168	1.787E-08	1.345E-08	1.075E-08	8.896E-09	7.521E-09	6.504E-09	5.705E-09

Table B-5
 Undepleted χ/Q Factors for Reactor Building Vent

PILGRIM 4TH QUARTER 2000 GENERAL X/Q'S - GROUND LEVEL -- SECTOR AVERAGE MODEL
 GROUND RELEASE
 GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	90	2.475E-05	7.241E-06	2.469E-06	1.378E-06	9.073E-07	4.978E-07	3.244E-07	2.341E-07
NNE	173	3.588E-05	1.052E-05	3.622E-06	2.001E-06	1.307E-06	7.146E-07	4.660E-07	3.362E-07
NE	239	5.491E-05	1.607E-05	5.207E-06	2.859E-06	1.874E-06	1.046E-06	6.918E-07	5.039E-07
ENE	368	5.981E-05	1.774E-05	6.216E-06	3.396E-06	2.200E-06	1.190E-06	7.736E-07	5.566E-07
E	295	3.862E-05	1.168E-05	3.971E-06	2.135E-06	1.374E-06	7.441E-07	4.849E-07	3.492E-07
ESE	196	2.499E-05	7.615E-06	2.606E-06	1.418E-06	9.185E-07	4.940E-07	3.196E-07	2.290E-07
SE	168	2.387E-05	7.225E-06	2.525E-06	1.389E-06	9.050E-07	4.866E-07	3.138E-07	2.244E-07
SSE	98	1.478E-05	4.408E-06	1.540E-06	8.465E-07	5.513E-07	2.966E-07	1.916E-07	1.373E-07
S	136	1.845E-05	5.615E-06	1.811E-06	9.869E-07	6.379E-07	3.396E-07	2.182E-07	1.555E-07
SSW	77	9.961E-06	2.980E-06	9.739E-07	5.304E-07	3.430E-07	1.827E-07	1.177E-07	8.408E-08
SW	69	1.095E-05	3.469E-06	1.128E-06	6.050E-07	3.858E-07	2.018E-07	1.286E-07	9.102E-08
WSW	39	6.991E-06	2.163E-06	7.019E-07	3.826E-07	2.469E-07	1.311E-07	8.408E-08	5.979E-08
W	57	9.519E-06	2.924E-06	9.918E-07	5.968E-07	3.842E-07	2.028E-07	1.177E-07	8.343E-08
WNW	66	9.982E-06	3.043E-06	1.127E-06	6.184E-07	3.993E-07	2.117E-07	1.490E-07	1.058E-07
NW	59	1.624E-05	4.752E-06	1.709E-06	9.488E-07	6.197E-07	3.341E-07	2.157E-07	1.546E-07
NNW	62	1.413E-05	4.126E-06	1.497E-06	8.304E-07	5.415E-07	2.912E-07	1.877E-07	1.344E-07
AVERAGE	2192	2.337E-05	6.973E-06	2.381E-06	1.308E-06	8.497E-07	4.603E-07	2.990E-07	2.150E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	90	1.807E-07	1.452E-07	1.203E-07	1.017E-07	8.765E-08	5.043E-08	3.437E-08	2.011E-08
NNE	173	2.593E-07	2.083E-07	1.724E-07	1.456E-07	1.254E-07	7.195E-08	4.894E-08	2.860E-08
NE	239	3.909E-07	3.156E-07	2.625E-07	2.231E-07	1.931E-07	1.126E-07	7.743E-08	4.590E-08
ENE	368	4.277E-07	3.426E-07	2.828E-07	2.384E-07	2.049E-07	1.168E-07	7.898E-08	4.578E-08
E	295	2.678E-07	2.143E-07	1.769E-07	1.494E-07	1.285E-07	7.354E-08	4.978E-08	2.884E-08
ESE	196	1.752E-07	1.399E-07	1.154E-07	9.723E-08	8.356E-08	4.767E-08	3.216E-08	1.847E-08
SE	168	1.716E-07	1.369E-07	1.240E-07	1.044E-07	8.958E-08	4.625E-08	3.110E-08	1.778E-08
SSE	98	1.053E-07	8.421E-08	6.946E-08	5.850E-08	5.024E-08	2.859E-08	1.931E-08	1.114E-08
S	136	1.186E-07	9.442E-08	7.759E-08	6.516E-08	5.581E-08	3.148E-08	2.108E-08	1.199E-08
SSW	77	6.431E-08	5.131E-08	4.222E-08	3.548E-08	3.040E-08	1.715E-08	1.149E-08	6.555E-09
SW	69	6.875E-08	5.433E-08	4.439E-08	3.712E-08	3.168E-08	1.767E-08	1.169E-08	6.507E-09
WSW	39	4.543E-08	3.607E-08	3.253E-08	2.728E-08	2.334E-08	1.193E-08	7.941E-09	4.461E-09
W	57	6.326E-08	5.009E-08	4.096E-08	3.422E-08	2.919E-08	1.620E-08	1.071E-08	5.958E-09
WNW	66	8.042E-08	6.381E-08	4.751E-08	3.975E-08	3.394E-08	1.892E-08	1.255E-08	7.035E-09
NW	59	1.188E-07	9.511E-08	7.844E-08	6.599E-08	5.662E-08	3.209E-08	2.166E-08	1.252E-08
NNW	62	1.032E-07	8.254E-08	6.802E-08	5.716E-08	4.901E-08	2.769E-08	1.868E-08	1.080E-08
AVERAGE	2192	1.651E-07	1.322E-07	1.097E-07	9.253E-08	7.957E-08	4.506E-08	3.049E-08	1.765E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	90	1.380E-08	1.036E-08	8.258E-09	6.822E-09	5.754E-09	4.967E-09	4.348E-09	
NNE	173	1.962E-08	1.473E-08	1.174E-08	9.705E-09	8.192E-09	7.079E-09	6.202E-09	
NE	239	3.175E-08	2.398E-08	1.922E-08	1.595E-08	1.350E-08	1.168E-08	1.026E-08	
ENE	368	3.128E-08	2.343E-08	1.863E-08	1.538E-08	1.297E-08	1.121E-08	9.821E-09	
E	295	1.974E-08	1.481E-08	1.180E-08	9.749E-09	8.234E-09	7.119E-09	6.245E-09	
ESE	196	1.259E-08	9.404E-09	7.466E-09	6.151E-09	5.179E-09	4.466E-09	3.908E-09	
SE	168	1.207E-08	8.991E-09	7.120E-09	5.853E-09	4.919E-09	4.235E-09	3.700E-09	
SSE	98	7.604E-09	5.687E-09	4.517E-09	3.723E-09	3.136E-09	2.707E-09	2.369E-09	
S	136	8.124E-09	6.044E-09	4.781E-09	3.928E-09	3.301E-09	2.845E-09	2.487E-09	
SSW	77	4.449E-09	3.314E-09	2.624E-09	2.158E-09	1.816E-09	1.568E-09	1.373E-09	
SW	69	4.360E-09	3.217E-09	2.528E-09	2.067E-09	1.729E-09	1.485E-09	1.295E-09	
WSW	39	3.001E-09	2.220E-09	1.749E-09	1.432E-09	1.199E-09	1.030E-09	8.986E-10	
W	57	3.980E-09	2.930E-09	2.298E-09	1.875E-09	1.566E-09	1.345E-09	1.171E-09	
WNW	66	4.717E-09	3.482E-09	2.737E-09	2.237E-09	1.871E-09	1.608E-09	1.401E-09	
NW	59	8.537E-09	6.379E-09	5.063E-09	4.170E-09	3.511E-09	3.030E-09	2.651E-09	
NNW	62	7.364E-09	5.503E-09	4.368E-09	3.598E-09	3.030E-09	2.616E-09	2.290E-09	
AVERAGE	2192	1.206E-08	9.030E-09	7.181E-09	5.925E-09	4.994E-09	4.312E-09	3.776E-09	

Table B-5
Undepleted χ/Q Factors for Reactor Building Vent

PILGRIM 2000 ANNUAL GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	575	3.032E-05	8.913E-06	3.021E-06	1.665E-06	1.089E-06	5.969E-07	3.899E-07	2.817E-07
NNE	1146	5.094E-05	1.496E-05	4.998E-06	2.739E-06	1.788E-06	9.850E-07	6.465E-07	4.685E-07
NE	898	5.919E-05	1.731E-05	5.466E-06	2.958E-06	1.926E-06	1.086E-06	7.249E-07	5.312E-07
ENE	814	4.836E-05	1.416E-05	4.737E-06	2.595E-06	1.692E-06	9.338E-07	6.140E-07	4.455E-07
E	773	3.263E-05	9.707E-06	3.255E-06	1.780E-06	1.160E-06	6.339E-07	4.136E-07	2.985E-07
ESE	542	2.086E-05	6.226E-06	2.139E-06	1.167E-06	7.583E-07	4.100E-07	2.661E-07	1.913E-07
SE	452	1.824E-05	5.427E-06	1.871E-06	1.026E-06	6.680E-07	3.616E-07	2.346E-07	1.686E-07
SSE	261	1.231E-05	3.640E-06	1.257E-06	6.882E-07	4.481E-07	2.423E-07	1.572E-07	1.130E-07
S	369	1.709E-05	5.079E-06	1.595E-06	8.676E-07	5.624E-07	3.039E-07	1.973E-07	1.418E-07
SSW	447	1.721E-05	5.126E-06	1.611E-06	8.722E-07	5.641E-07	3.038E-07	1.972E-07	1.418E-07
SW	391	1.391E-05	4.301E-06	1.370E-06	7.351E-07	4.712E-07	2.495E-07	1.601E-07	1.140E-07
WSW	344	1.645E-05	4.983E-06	1.580E-06	8.575E-07	5.545E-07	2.971E-07	1.917E-07	1.371E-07
W	362	1.563E-05	4.742E-06	1.537E-06	9.213E-07	5.956E-07	3.170E-07	1.850E-07	1.318E-07
WNW	258	1.341E-05	3.984E-06	1.389E-06	7.598E-07	4.933E-07	2.671E-07	1.907E-07	1.371E-07
NW	206	1.507E-05	4.403E-06	1.562E-06	8.613E-07	5.607E-07	3.040E-07	1.973E-07	1.420E-07
NNW	230	1.894E-05	5.552E-06	1.892E-06	1.053E-06	6.923E-07	3.793E-07	2.472E-07	1.783E-07
AVERAGE	8068	2.503E-05	7.407E-06	2.455E-06	1.347E-06	8.764E-07	4.795E-07	3.133E-07	2.264E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	575	2.174E-07	1.747E-07	1.447E-07	1.224E-07	1.055E-07	6.076E-08	4.142E-08	2.426E-08
NNE	1146	3.622E-07	2.916E-07	2.418E-07	2.049E-07	1.769E-07	1.023E-07	6.991E-08	4.113E-08
NE	898	4.131E-07	3.343E-07	2.787E-07	2.375E-07	2.061E-07	1.209E-07	8.353E-08	4.992E-08
ENE	814	3.447E-07	2.776E-07	2.303E-07	1.952E-07	1.686E-07	9.750E-08	6.668E-08	3.928E-08
E	773	2.299E-07	1.846E-07	1.528E-07	1.292E-07	1.114E-07	6.417E-08	4.369E-08	2.552E-08
ESE	542	1.470E-07	1.178E-07	9.729E-08	8.211E-08	7.063E-08	4.039E-08	2.736E-08	1.586E-08
SE	452	1.295E-07	1.037E-07	9.424E-08	7.952E-08	6.838E-08	3.553E-08	2.405E-08	1.393E-08
SSE	261	8.695E-08	6.972E-08	5.762E-08	4.863E-08	4.183E-08	2.392E-08	1.622E-08	9.430E-09
S	369	1.090E-07	8.732E-08	7.213E-08	6.086E-08	5.233E-08	2.988E-08	2.024E-08	1.174E-08
SSW	447	1.090E-07	8.731E-08	7.212E-08	6.086E-08	5.233E-08	2.988E-08	2.022E-08	1.171E-08
SW	391	8.668E-08	6.887E-08	5.653E-08	4.746E-08	4.063E-08	2.290E-08	1.531E-08	8.688E-09
WSW	344	1.048E-07	8.357E-08	7.568E-08	6.369E-08	5.464E-08	2.818E-08	1.895E-08	1.086E-08
W	362	1.005E-07	7.997E-08	6.570E-08	5.515E-08	4.721E-08	2.659E-08	1.780E-08	1.013E-08
WNW	258	1.053E-07	8.426E-08	6.323E-08	5.330E-08	4.582E-08	2.611E-08	1.766E-08	1.023E-08
NW	206	1.093E-07	8.762E-08	7.237E-08	6.099E-08	5.241E-08	2.983E-08	2.020E-08	1.173E-08
NNW	230	1.376E-07	1.106E-07	9.157E-08	7.741E-08	6.671E-08	3.838E-08	2.615E-08	1.529E-08
AVERAGE	8068	1.745E-07	1.402E-07	1.167E-07	9.871E-08	8.509E-08	4.858E-08	3.309E-08	1.936E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	575	1.667E-08	1.254E-08	1.000E-08	8.273E-09	6.988E-09	6.039E-09	5.294E-09	
NNE	1146	2.834E-08	2.135E-08	1.707E-08	1.414E-08	1.196E-08	1.034E-08	9.075E-09	
NE	898	3.470E-08	2.631E-08	2.115E-08	1.760E-08	1.494E-08	1.295E-08	1.139E-08	
ENE	814	2.708E-08	2.040E-08	1.632E-08	1.352E-08	1.144E-08	9.897E-09	8.685E-09	
E	773	1.753E-08	1.318E-08	1.052E-08	8.698E-09	7.348E-09	6.351E-09	5.569E-09	
ESE	542	1.085E-08	8.135E-09	6.475E-09	5.346E-09	4.510E-09	3.897E-09	3.415E-09	
SE	452	9.528E-09	7.138E-09	5.679E-09	4.687E-09	3.952E-09	3.414E-09	2.991E-09	
SSE	261	6.463E-09	4.849E-09	3.861E-09	3.190E-09	2.692E-09	2.327E-09	2.040E-09	
S	369	8.045E-09	6.035E-09	4.806E-09	3.971E-09	3.353E-09	2.900E-09	2.543E-09	
SSW	447	8.022E-09	6.017E-09	4.791E-09	3.958E-09	3.343E-09	2.892E-09	2.538E-09	
SW	391	5.889E-09	4.385E-09	3.471E-09	2.854E-09	2.401E-09	2.071E-09	1.813E-09	
WSW	344	7.393E-09	5.521E-09	4.380E-09	3.608E-09	3.039E-09	2.623E-09	2.297E-09	
W	362	6.862E-09	5.106E-09	4.039E-09	3.319E-09	2.790E-09	2.405E-09	2.104E-09	
WNW	258	6.994E-09	5.238E-09	4.167E-09	3.439E-09	2.901E-09	2.506E-09	2.196E-09	
NW	206	8.025E-09	6.012E-09	4.782E-09	3.947E-09	3.329E-09	2.877E-09	2.521E-09	
NNW	230	1.049E-08	7.876E-09	6.277E-09	5.186E-09	4.375E-09	3.777E-09	3.307E-09	
AVERAGE	8068	1.331E-08	1.001E-08	7.986E-09	6.608E-09	5.585E-09	4.830E-09	4.236E-09	

Table B-6
Depleted χ/Q Factors for Reactor Building Vent

PILGRIM 1ST QUARTER 2000 GENERAL X/Q'S - GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE

GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (REGULATORY GUIDE 1.111 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	145	2.319E-05	6.660E-06	2.099E-06	1.121E-06	7.218E-07	3.891E-07	2.490E-07	1.769E-07
NNE	250	3.828E-05	1.105E-05	3.495E-06	1.866E-06	1.200E-06	6.465E-07	4.136E-07	2.936E-07
NE	169	3.599E-05	1.035E-05	3.161E-06	1.680E-06	1.082E-06	5.903E-07	3.809E-07	2.720E-07
ENE	161	3.515E-05	1.005E-05	3.220E-06	1.728E-06	1.114E-06	6.002E-07	3.839E-07	2.726E-07
E	282	3.203E-05	9.385E-06	3.044E-06	1.620E-06	1.040E-06	5.497E-07	3.473E-07	2.444E-07
ESE	225	2.501E-05	7.350E-06	2.356E-06	1.243E-06	7.941E-07	4.216E-07	2.676E-07	1.889E-07
SE	173	1.940E-05	5.607E-06	1.769E-06	9.282E-07	5.933E-07	3.178E-07	2.032E-07	1.442E-07
SSE	55	1.095E-05	3.154E-06	9.966E-07	5.295E-07	3.403E-07	1.816E-07	1.157E-07	8.202E-08
S	61	1.491E-05	4.307E-06	1.168E-06	6.096E-07	3.894E-07	2.144E-07	1.395E-07	1.001E-07
SSW	66	1.485E-05	4.231E-06	1.157E-06	6.088E-07	3.906E-07	2.151E-07	1.400E-07	1.006E-07
SW	40	6.985E-06	2.008E-06	5.573E-07	2.914E-07	1.861E-07	1.013E-07	6.563E-08	4.698E-08
WSW	58	8.762E-06	2.515E-06	7.299E-07	3.859E-07	2.479E-07	1.318E-07	8.370E-08	5.917E-08
W	59	6.860E-06	1.929E-06	5.291E-07	3.037E-07	1.967E-07	1.053E-07	6.120E-08	4.360E-08
WNW	40	7.326E-06	2.118E-06	6.175E-07	3.155E-07	1.999E-07	1.100E-07	7.904E-08	5.690E-08
NW	39	1.057E-05	3.017E-06	9.765E-07	5.117E-07	3.246E-07	1.745E-07	1.120E-07	7.974E-08
NNW	59	1.455E-05	4.218E-06	1.324E-06	6.972E-07	4.447E-07	2.404E-07	1.547E-07	1.102E-07
AVERAGE	1882	1.905E-05	5.497E-06	1.700E-06	9.024E-07	5.791E-07	3.119E-07	1.998E-07	1.420E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	145	1.347E-07	1.070E-07	8.761E-08	7.346E-08	6.274E-08	3.428E-08	2.241E-08	1.233E-08
NNE	250	2.232E-07	1.771E-07	1.449E-07	1.215E-07	1.037E-07	5.657E-08	3.692E-08	2.024E-08
NE	169	2.076E-07	1.652E-07	1.356E-07	1.140E-07	9.765E-08	5.376E-08	3.532E-08	1.955E-08
ENE	161	2.075E-07	1.647E-07	1.348E-07	1.129E-07	9.635E-08	5.248E-08	3.424E-08	1.878E-08
E	282	1.847E-07	1.458E-07	1.189E-07	9.925E-08	8.443E-08	4.559E-08	2.950E-08	1.593E-08
ESE	225	1.428E-07	1.128E-07	9.202E-08	7.693E-08	6.551E-08	3.547E-08	2.299E-08	1.245E-08
SE	173	1.096E-07	8.689E-08	7.824E-08	6.559E-08	5.598E-08	2.773E-08	1.808E-08	9.897E-09
SSE	55	6.240E-08	4.951E-08	4.053E-08	3.396E-08	2.898E-08	1.581E-08	1.033E-08	5.671E-09
S	61	7.653E-08	6.100E-08	5.016E-08	4.229E-08	3.628E-08	2.008E-08	1.323E-08	7.357E-09
SSW	66	7.704E-08	6.150E-08	5.062E-08	4.267E-08	3.661E-08	2.026E-08	1.336E-08	7.445E-09
SW	40	3.589E-08	2.858E-08	2.349E-08	1.977E-08	1.693E-08	9.329E-09	6.128E-09	3.394E-09
WSW	58	4.493E-08	3.560E-08	3.203E-08	2.681E-08	2.284E-08	1.128E-08	7.346E-09	4.024E-09
W	59	3.339E-08	2.667E-08	2.197E-08	1.851E-08	1.584E-08	8.745E-09	5.758E-09	3.198E-09
WNW	40	4.355E-08	3.477E-08	2.604E-08	2.200E-08	1.890E-08	1.051E-08	6.946E-09	3.889E-09
NW	39	6.070E-08	4.816E-08	3.940E-08	3.300E-08	2.815E-08	1.528E-08	9.968E-09	5.488E-09
NNW	59	8.388E-08	6.657E-08	5.452E-08	4.575E-08	3.910E-08	2.137E-08	1.396E-08	7.664E-09
AVERAGE	1882	1.080E-07	8.573E-08	7.068E-08	5.927E-08	5.062E-08	2.741E-08	1.790E-08	9.832E-09

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	145	7.949E-09	5.666E-09	4.320E-09	3.435E-09	2.798E-09	2.342E-09	1.993E-09
NNE	250	1.303E-08	9.273E-09	7.063E-09	5.611E-09	4.567E-09	3.821E-09	3.250E-09
NE	169	1.265E-08	9.045E-09	6.913E-09	5.506E-09	4.492E-09	3.762E-09	3.204E-09
ENE	161	1.208E-08	8.596E-09	6.546E-09	5.198E-09	4.231E-09	3.540E-09	3.010E-09
E	282	1.019E-08	7.222E-09	5.479E-09	4.339E-09	3.524E-09	2.946E-09	2.503E-09
ESE	225	7.981E-09	5.666E-09	4.305E-09	3.415E-09	2.777E-09	2.324E-09	1.976E-09
SE	173	6.382E-09	4.552E-09	3.472E-09	2.762E-09	2.253E-09	1.890E-09	1.611E-09
SSE	55	3.658E-09	2.609E-09	1.989E-09	1.581E-09	1.288E-09	1.079E-09	9.189E-10
S	61	4.777E-09	3.424E-09	2.623E-09	2.094E-09	1.712E-09	1.437E-09	1.225E-09
SSW	66	4.836E-09	3.467E-09	2.656E-09	2.120E-09	1.733E-09	1.454E-09	1.240E-09
SW	40	2.200E-09	1.575E-09	1.205E-09	9.609E-10	7.851E-10	6.588E-10	5.619E-10
WSW	58	2.596E-09	1.852E-09	1.412E-09	1.123E-09	9.158E-10	7.682E-10	6.549E-10
W	59	2.087E-09	1.501E-09	1.151E-09	9.203E-10	7.541E-10	6.352E-10	5.436E-10
WNW	40	2.540E-09	1.829E-09	1.406E-09	1.126E-09	9.230E-10	7.766E-10	6.643E-10
NW	39	3.541E-09	2.528E-09	1.929E-09	1.536E-09	1.254E-09	1.052E-09	8.976E-10
NNW	59	4.939E-09	3.521E-09	2.685E-09	2.136E-09	1.741E-09	1.458E-09	1.242E-09
AVERAGE	1882	6.340E-09	4.520E-09	3.447E-09	2.742E-09	2.234E-09	1.872E-09	1.593E-09

Table B-6
Depleted χ/Q Factors for Reactor Building Vent

PILGRIM 2ND QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL

GROUND RELEASE

GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (REGULATORY GUIDE 1.111 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	119	2.161E-05	6.320E-06	2.116E-06	1.116E-06	7.078E-07	3.724E-07	2.354E-07	1.656E-07
NNE	360	5.311E-05	1.551E-05	5.024E-06	2.663E-06	1.699E-06	9.024E-07	5.735E-07	4.052E-07
NE	173	4.722E-05	1.358E-05	4.113E-06	2.171E-06	1.392E-06	7.643E-07	4.959E-07	3.553E-07
ENE	116	3.477E-05	9.943E-06	3.152E-06	1.687E-06	1.086E-06	5.877E-07	3.773E-07	2.686E-07
E	82	1.976E-05	5.738E-06	1.849E-06	9.989E-07	6.457E-07	3.442E-07	2.181E-07	1.538E-07
ESE	56	1.354E-05	3.938E-06	1.346E-06	7.167E-07	4.568E-07	2.386E-07	1.498E-07	1.050E-07
SE	45	1.075E-05	3.131E-06	1.165E-06	6.272E-07	4.030E-07	2.114E-07	1.205E-07	8.439E-08
SSE	45	1.107E-05	3.258E-06	1.085E-06	5.269E-07	3.374E-07	1.775E-07	1.118E-07	7.841E-08
S	83	1.854E-05	5.361E-06	1.515E-06	8.089E-07	5.177E-07	2.706E-07	1.699E-07	1.191E-07
SSW	157	2.235E-05	6.622E-06	2.025E-06	1.073E-06	6.841E-07	3.559E-07	2.231E-07	1.561E-07
SW	170	1.995E-05	6.045E-06	1.833E-06	9.583E-07	6.062E-07	3.122E-07	1.944E-07	1.352E-07
WSW	141	2.623E-05	7.808E-06	2.357E-06	1.241E-06	7.879E-07	4.107E-07	2.578E-07	1.804E-07
W	136	2.575E-05	7.836E-06	2.391E-06	1.398E-06	8.898E-07	4.612E-07	2.614E-07	1.819E-07
WNW	54	1.273E-05	3.741E-06	1.274E-06	6.688E-07	4.220E-07	2.211E-07	1.535E-07	1.078E-07
NW	57	1.433E-05	4.167E-06	1.452E-06	7.707E-07	4.885E-07	2.550E-07	1.604E-07	1.125E-07
NNW	32	9.331E-06	2.736E-06	9.785E-07	5.232E-07	3.324E-07	1.716E-07	1.069E-07	7.442E-08
AVERAGE	1826	2.257E-05	6.609E-06	2.105E-06	1.122E-06	7.160E-07	3.786E-07	2.381E-07	1.677E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	119	1.250E-07	9.848E-08	8.011E-08	6.671E-08	5.665E-08	3.034E-08	1.956E-08	1.057E-08
NNE	360	3.069E-07	2.426E-07	1.980E-07	1.654E-07	1.409E-07	7.623E-08	4.947E-08	2.691E-08
NE	173	2.716E-07	2.163E-07	1.778E-07	1.497E-07	1.283E-07	7.080E-08	4.661E-08	2.590E-08
ENE	116	2.048E-07	1.627E-07	1.333E-07	1.118E-07	9.551E-08	5.220E-08	3.413E-08	1.879E-08
E	82	1.165E-07	9.217E-08	7.524E-08	6.287E-08	5.355E-08	2.903E-08	1.886E-08	1.027E-08
ESE	56	7.914E-08	6.228E-08	5.060E-08	4.205E-08	3.564E-08	1.899E-08	1.220E-08	6.555E-09
SE	45	6.364E-08	5.010E-08	4.479E-08	3.724E-08	3.158E-08	1.687E-08	1.086E-08	5.838E-09
SSE	45	5.908E-08	4.651E-08	3.781E-08	3.148E-08	2.672E-08	1.432E-08	9.220E-09	4.949E-09
S	83	9.000E-08	7.094E-08	5.771E-08	4.802E-08	4.073E-08	2.177E-08	1.402E-08	7.553E-09
SSW	157	1.173E-07	9.223E-08	7.490E-08	6.228E-08	5.279E-08	2.818E-08	1.805E-08	9.601E-09
SW	170	1.010E-07	7.901E-08	6.394E-08	5.305E-08	4.487E-08	2.380E-08	1.519E-08	8.040E-09
WSW	141	1.355E-07	1.065E-07	9.510E-08	7.910E-08	6.708E-08	3.258E-08	2.092E-08	1.120E-08
W	136	1.359E-07	1.063E-07	8.600E-08	7.132E-08	6.035E-08	3.204E-08	2.043E-08	1.077E-08
WNW	54	8.117E-08	6.382E-08	4.712E-08	3.917E-08	3.322E-08	1.769E-08	1.135E-08	6.085E-09
NW	57	8.479E-08	6.669E-08	5.413E-08	4.495E-08	3.807E-08	2.020E-08	1.294E-08	6.927E-09
NNW	32	5.581E-08	4.372E-08	3.536E-08	2.925E-08	2.469E-08	1.297E-08	8.242E-09	4.350E-09
AVERAGE	1826	1.268E-07	1.000E-07	8.199E-08	6.840E-08	5.816E-08	3.112E-08	2.013E-08	1.089E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	119	6.751E-09	4.781E-09	3.626E-09	2.873E-09	2.334E-09	1.953E-09	1.660E-09
NNE	360	1.725E-08	1.225E-08	9.312E-09	7.386E-09	6.006E-09	5.023E-09	4.271E-09
NE	173	1.679E-08	1.202E-08	9.196E-09	7.332E-09	5.987E-09	5.018E-09	4.276E-09
ENE	116	1.211E-08	8.628E-09	6.577E-09	5.228E-09	4.257E-09	3.563E-09	3.031E-09
E	82	6.581E-09	4.669E-09	3.546E-09	2.809E-09	2.281E-09	1.904E-09	1.616E-09
ESE	56	4.174E-09	2.949E-09	2.231E-09	1.764E-09	1.430E-09	1.196E-09	1.015E-09
SE	45	3.717E-09	2.624E-09	1.985E-09	1.568E-09	1.270E-09	1.060E-09	8.992E-10
SSE	45	3.151E-09	2.225E-09	1.683E-09	1.330E-09	1.078E-09	8.998E-10	7.634E-10
S	83	4.820E-09	3.410E-09	2.582E-09	2.043E-09	1.658E-09	1.386E-09	1.178E-09
SSW	157	6.092E-09	4.292E-09	3.240E-09	2.557E-09	2.071E-09	1.729E-09	1.467E-09
SW	170	5.099E-09	3.592E-09	2.711E-09	2.140E-09	1.734E-09	1.448E-09	1.230E-09
WSW	141	7.130E-09	5.038E-09	3.813E-09	3.015E-09	2.447E-09	2.045E-09	1.737E-09
W	136	6.790E-09	4.762E-09	3.582E-09	2.818E-09	2.275E-09	1.892E-09	1.600E-09
WNW	54	3.872E-09	2.735E-09	2.070E-09	1.638E-09	1.330E-09	1.112E-09	9.456E-10
NW	57	4.398E-09	3.100E-09	2.342E-09	1.850E-09	1.499E-09	1.253E-09	1.064E-09
NNW	32	2.740E-09	1.920E-09	1.443E-09	1.135E-09	9.162E-10	7.638E-10	6.470E-10
AVERAGE	1826	6.967E-09	4.937E-09	3.746E-09	2.968E-09	2.411E-09	2.015E-09	1.713E-09

Table B-6
Depleted χ/Q Factors for Reactor Building Vent

PILGRIM 3RD QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL
GROUND RELEASE

SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (REGULATORY GUIDE 1.111 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	221	4.635E-05	1.345E-05	4.390E-06	2.368E-06	1.526E-06	8.133E-07	5.158E-07	3.640E-07
NNE	363	6.987E-05	2.014E-05	6.385E-06	3.419E-06	2.201E-06	1.188E-06	7.605E-07	5.402E-07
NE	317	8.787E-05	2.533E-05	7.571E-06	3.946E-06	2.511E-06	1.388E-06	9.070E-07	6.526E-07
ENE	169	5.543E-05	1.593E-05	4.919E-06	2.623E-06	1.688E-06	9.204E-07	5.937E-07	4.238E-07
E	114	3.499E-05	1.012E-05	3.202E-06	1.731E-06	1.121E-06	6.025E-07	3.837E-07	2.716E-07
ESE	65	1.739E-05	4.996E-06	1.689E-06	9.115E-07	5.857E-07	3.079E-07	1.942E-07	1.366E-07
SE	66	1.627E-05	4.741E-06	1.765E-06	9.496E-07	6.089E-07	3.190E-07	1.823E-07	1.278E-07
SSE	63	1.295E-05	3.740E-06	1.270E-06	6.163E-07	3.939E-07	2.057E-07	1.294E-07	9.086E-08
S	89	1.754E-05	5.111E-06	1.462E-06	7.775E-07	4.953E-07	2.573E-07	1.612E-07	1.128E-07
SSW	147	2.035E-05	6.006E-06	1.868E-06	9.824E-07	6.211E-07	3.200E-07	2.000E-07	1.397E-07
SW	112	1.637E-05	5.036E-06	1.589E-06	8.328E-07	5.233E-07	2.667E-07	1.652E-07	1.144E-07
WSW	106	2.250E-05	6.777E-06	2.105E-06	1.119E-06	7.114E-07	3.691E-07	2.307E-07	1.608E-07
W	110	1.916E-05	5.680E-06	1.837E-06	1.077E-06	6.824E-07	3.511E-07	1.983E-07	1.377E-07
WNW	98	2.133E-05	6.171E-06	2.074E-06	1.125E-06	7.265E-07	3.833E-07	2.652E-07	1.861E-07
NW	51	1.700E-05	4.871E-06	1.664E-06	9.080E-07	5.870E-07	3.101E-07	1.952E-07	1.371E-07
NNW	77	3.370E-05	9.696E-06	3.078E-06	1.698E-06	1.113E-06	5.990E-07	3.803E-07	2.688E-07
AVERAGE	2168	3.182E-05	9.236E-06	2.929E-06	1.568E-06	1.006E-06	5.376E-07	3.414E-07	2.416E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	221	2.758E-07	2.181E-07	1.779E-07	1.486E-07	1.265E-07	6.843E-08	4.439E-08	2.410E-08
NNE	363	4.110E-07	3.261E-07	2.669E-07	2.237E-07	1.910E-07	1.042E-07	6.802E-08	3.731E-08
NE	317	4.992E-07	3.981E-07	3.275E-07	2.761E-07	2.370E-07	1.312E-07	8.653E-08	4.825E-08
ENE	169	3.234E-07	2.573E-07	2.111E-07	1.774E-07	1.518E-07	8.343E-08	5.475E-08	3.027E-08
E	114	2.064E-07	1.636E-07	1.338E-07	1.121E-07	9.564E-08	5.215E-08	3.403E-08	1.863E-08
ESE	65	1.035E-07	8.182E-08	6.669E-08	5.556E-08	4.720E-08	2.535E-08	1.639E-08	8.865E-09
SE	66	9.652E-08	7.606E-08	6.805E-08	5.662E-08	4.804E-08	2.571E-08	1.656E-08	8.903E-09
SSE	63	6.872E-08	5.422E-08	4.414E-08	3.674E-08	3.118E-08	1.668E-08	1.075E-08	5.793E-09
S	89	8.497E-08	6.684E-08	5.429E-08	4.509E-08	3.820E-08	2.032E-08	1.304E-08	6.980E-09
SSW	147	1.051E-07	8.255E-08	6.697E-08	5.559E-08	4.705E-08	2.498E-08	1.600E-08	8.542E-09
SW	112	8.500E-08	6.618E-08	5.332E-08	4.403E-08	3.712E-08	1.944E-08	1.226E-08	6.368E-09
WSW	106	1.203E-07	9.418E-08	8.385E-08	6.953E-08	5.882E-08	2.834E-08	1.805E-08	9.506E-09
W	110	1.030E-07	8.053E-08	6.504E-08	5.374E-08	4.533E-08	2.375E-08	1.507E-08	7.931E-09
WNW	98	1.406E-07	1.109E-07	8.206E-08	6.832E-08	5.801E-08	3.111E-08	2.009E-08	1.084E-08
NW	51	1.038E-07	8.189E-08	6.667E-08	5.549E-08	4.710E-08	2.523E-08	1.627E-08	8.770E-09
NNW	77	2.044E-07	1.620E-07	1.326E-07	1.110E-07	9.467E-08	5.165E-08	3.370E-08	1.840E-08
AVERAGE	2168	1.832E-07	1.450E-07	1.188E-07	9.934E-08	8.467E-08	4.575E-08	2.974E-08	1.622E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	221	1.541E-08	1.092E-08	8.284E-09	6.558E-09	5.322E-09	4.443E-09	3.770E-09
NNE	363	2.401E-08	1.708E-08	1.301E-08	1.033E-08	8.409E-09	7.033E-09	5.979E-09
NE	317	3.134E-08	2.248E-08	1.723E-08	1.376E-08	1.125E-08	9.441E-09	8.054E-09
ENE	169	1.956E-08	1.396E-08	1.066E-08	8.485E-09	6.917E-09	5.791E-09	4.927E-09
E	114	1.197E-08	8.511E-09	6.475E-09	5.136E-09	4.175E-09	3.487E-09	2.961E-09
ESE	65	5.658E-09	4.002E-09	3.030E-09	2.396E-09	1.943E-09	1.623E-09	1.377E-09
SE	66	5.665E-09	3.998E-09	3.023E-09	2.387E-09	1.933E-09	1.613E-09	1.367E-09
SSE	63	3.695E-09	2.613E-09	1.979E-09	1.565E-09	1.270E-09	1.062E-09	9.020E-10
S	89	4.439E-09	3.133E-09	2.368E-09	1.871E-09	1.517E-09	1.268E-09	1.077E-09
SSW	147	5.430E-09	3.832E-09	2.896E-09	2.288E-09	1.855E-09	1.552E-09	1.319E-09
SW	112	3.987E-09	2.782E-09	2.084E-09	1.634E-09	1.317E-09	1.096E-09	9.271E-10
WSW	106	5.990E-09	4.198E-09	3.157E-09	2.482E-09	2.004E-09	1.668E-09	1.411E-09
W	110	4.991E-09	3.495E-09	2.625E-09	2.063E-09	1.665E-09	1.388E-09	1.175E-09
WNW	98	6.908E-09	4.881E-09	3.693E-09	2.918E-09	2.364E-09	1.972E-09	1.672E-09
NW	51	5.582E-09	3.939E-09	2.978E-09	2.351E-09	1.903E-09	1.587E-09	1.345E-09
NNW	77	1.180E-08	8.367E-09	6.353E-09	5.030E-09	4.079E-09	3.400E-09	2.880E-09
AVERAGE	2168	1.040E-08	7.387E-09	5.615E-09	4.454E-09	3.620E-09	3.026E-09	2.571E-09

Table B-6
Depleted χ/Q Factors for Reactor Building Vent

PILGRIM 4TH QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL

GROUND RELEASE

GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (REGULATORY GUIDE 1.111 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	90	2.387E-05	6.878E-06	2.257E-06	1.228E-06	7.955E-07	4.243E-07	2.687E-07	1.895E-07
NNE	173	3.461E-05	9.988E-06	3.310E-06	1.783E-06	1.146E-06	6.092E-07	3.860E-07	2.722E-07
NE	239	5.295E-05	1.526E-05	4.759E-06	2.548E-06	1.643E-06	8.917E-07	5.730E-07	4.080E-07
ENE	368	5.768E-05	1.685E-05	5.682E-06	3.026E-06	1.929E-06	1.015E-06	6.408E-07	4.506E-07
E	295	3.724E-05	1.110E-05	3.629E-06	1.903E-06	1.204E-06	6.344E-07	4.017E-07	2.827E-07
ESE	196	2.410E-05	7.233E-06	2.382E-06	1.263E-06	8.053E-07	4.211E-07	2.648E-07	1.854E-07
SE	168	2.302E-05	6.862E-06	2.308E-06	1.238E-06	7.934E-07	4.148E-07	2.600E-07	1.817E-07
SSE	98	1.426E-05	4.187E-06	1.408E-06	7.543E-07	4.833E-07	2.529E-07	1.587E-07	1.111E-07
S	136	1.779E-05	5.333E-06	1.656E-06	8.794E-07	5.593E-07	2.895E-07	1.807E-07	1.259E-07
SSW	77	9.606E-06	2.831E-06	8.901E-07	4.726E-07	3.007E-07	1.558E-07	9.746E-08	6.806E-08
SW	69	1.056E-05	3.295E-06	1.031E-06	5.391E-07	3.382E-07	1.720E-07	1.066E-07	7.368E-08
WSW	39	6.742E-06	2.055E-06	6.415E-07	3.409E-07	2.165E-07	1.118E-07	6.965E-08	4.841E-08
W	57	9.179E-06	2.777E-06	9.065E-07	5.318E-07	3.368E-07	1.729E-07	9.750E-08	6.754E-08
WNW	66	9.627E-06	2.890E-06	1.030E-06	5.511E-07	3.501E-07	1.804E-07	1.234E-07	8.567E-08
NW	59	1.566E-05	4.514E-06	1.562E-06	8.455E-07	5.433E-07	2.848E-07	1.787E-07	1.252E-07
NNW	62	1.363E-05	3.919E-06	1.368E-06	7.400E-07	4.747E-07	2.482E-07	1.555E-07	1.088E-07
AVERAGE	2192	2.253E-05	6.623E-06	2.176E-06	1.165E-06	7.449E-07	3.924E-07	2.477E-07	1.740E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	90	1.437E-07	1.136E-07	9.273E-08	7.742E-08	6.590E-08	3.563E-08	2.312E-08	1.256E-08
NNE	173	2.062E-07	1.630E-07	1.329E-07	1.109E-07	9.430E-08	5.083E-08	3.293E-08	1.787E-08
NE	239	3.108E-07	2.469E-07	2.024E-07	1.698E-07	1.452E-07	7.958E-08	5.209E-08	2.867E-08
ENE	368	3.401E-07	2.680E-07	2.180E-07	1.815E-07	1.541E-07	8.250E-08	5.314E-08	2.859E-08
E	295	2.129E-07	1.676E-07	1.364E-07	1.137E-07	9.665E-08	5.196E-08	3.349E-08	1.801E-08
ESE	196	1.393E-07	1.095E-07	8.892E-08	7.402E-08	6.283E-08	3.368E-08	2.163E-08	1.154E-08
SE	168	1.364E-07	1.071E-07	9.560E-08	7.945E-08	6.735E-08	3.268E-08	2.093E-08	1.111E-08
SSE	98	8.372E-08	6.588E-08	5.354E-08	4.453E-08	3.777E-08	2.020E-08	1.299E-08	6.961E-09
S	136	9.431E-08	7.387E-08	5.981E-08	4.960E-08	4.196E-08	2.224E-08	1.418E-08	7.490E-09
SSW	77	5.113E-08	4.014E-08	3.255E-08	2.701E-08	2.286E-08	1.212E-08	7.732E-09	4.095E-09
SW	69	5.467E-08	4.251E-08	3.422E-08	2.825E-08	2.382E-08	1.248E-08	7.866E-09	4.064E-09
WSW	39	3.612E-08	2.822E-08	2.508E-08	2.077E-08	1.755E-08	8.427E-09	5.342E-09	2.787E-09
W	57	5.030E-08	3.919E-08	3.157E-08	2.605E-08	2.195E-08	1.145E-08	7.202E-09	3.722E-09
WNW	66	6.395E-08	4.992E-08	3.662E-08	3.026E-08	2.552E-08	1.337E-08	8.445E-09	4.394E-09
NW	59	9.448E-08	7.441E-08	6.046E-08	5.023E-08	4.257E-08	2.267E-08	1.457E-08	7.821E-09
NNW	62	8.206E-08	6.458E-08	5.243E-08	4.352E-08	3.685E-08	1.957E-08	1.257E-08	6.747E-09
AVERAGE	2192	1.313E-07	1.034E-07	8.457E-08	7.044E-08	5.982E-08	3.184E-08	2.051E-08	1.103E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	90	8.034E-09	5.690E-09	4.315E-09	3.415E-09	2.770E-09	2.311E-09	1.960E-09
NNE	173	1.142E-08	8.091E-09	6.137E-09	4.858E-09	3.943E-09	3.294E-09	2.796E-09
NE	239	1.848E-08	1.317E-08	1.004E-08	7.982E-09	6.500E-09	5.437E-09	4.623E-09
ENE	368	1.821E-08	1.287E-08	9.738E-09	7.699E-09	6.244E-09	5.215E-09	4.427E-09
E	295	1.149E-08	8.132E-09	6.164E-09	4.881E-09	3.963E-09	3.313E-09	2.815E-09
ESE	196	7.327E-09	5.164E-09	3.901E-09	3.079E-09	2.493E-09	2.078E-09	1.762E-09
SE	168	7.026E-09	4.937E-09	3.721E-09	2.930E-09	2.368E-09	1.971E-09	1.668E-09
SSE	98	4.427E-09	3.123E-09	2.360E-09	1.864E-09	1.510E-09	1.260E-09	1.068E-09
S	136	4.729E-09	3.319E-09	2.498E-09	1.967E-09	1.589E-09	1.324E-09	1.121E-09
SSW	77	2.589E-09	1.820E-09	1.371E-09	1.080E-09	8.740E-10	7.294E-10	6.187E-10
SW	69	2.538E-09	1.767E-09	1.321E-09	1.035E-09	8.325E-10	6.912E-10	5.839E-10
WSW	39	1.747E-09	1.219E-09	9.139E-10	7.168E-10	5.773E-10	4.794E-10	4.051E-10
W	57	2.317E-09	1.609E-09	1.201E-09	9.386E-10	7.540E-10	6.257E-10	5.280E-10
WNW	66	2.746E-09	1.912E-09	1.430E-09	1.120E-09	9.008E-10	7.481E-10	6.317E-10
NW	59	4.969E-09	3.503E-09	2.646E-09	2.088E-09	1.690E-09	1.410E-09	1.195E-09
NNW	62	4.287E-09	3.022E-09	2.282E-09	1.801E-09	1.458E-09	1.217E-09	1.032E-09
AVERAGE	2192	7.021E-09	4.959E-09	3.753E-09	2.966E-09	2.404E-09	2.006E-09	1.702E-09

Table B-6
Depleted χ/Q Factors for Reactor Building Vent

PILGRIM 2000 ANNUAL GENERAL I/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE

GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (REGULATORY GUIDE 1.111 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	575	2.924E-05	8.466E-06	2.761E-06	1.484E-06	9.548E-07	5.089E-07	3.230E-07	2.280E-07
NNE	1146	4.913E-05	1.421E-05	4.568E-06	2.441E-06	1.567E-06	8.397E-07	5.355E-07	3.793E-07
NE	898	5.708E-05	1.644E-05	4.996E-06	2.636E-06	1.688E-06	9.260E-07	6.005E-07	4.301E-07
ENE	814	4.664E-05	1.345E-05	4.330E-06	2.312E-06	1.483E-06	7.961E-07	5.086E-07	3.607E-07
E	773	3.147E-05	9.221E-06	2.975E-06	1.586E-06	1.017E-06	5.404E-07	3.426E-07	2.416E-07
ESE	542	2.012E-05	5.914E-06	1.955E-06	1.040E-06	6.648E-07	3.495E-07	2.205E-07	1.549E-07
SE	452	1.759E-05	5.155E-06	1.710E-06	9.139E-07	5.856E-07	3.082E-07	1.943E-07	1.365E-07
SSE	261	1.187E-05	3.457E-06	1.148E-06	6.133E-07	3.929E-07	2.065E-07	1.302E-07	9.148E-08
S	369	1.648E-05	4.825E-06	1.458E-06	7.731E-07	4.930E-07	2.590E-07	1.634E-07	1.148E-07
SSW	447	1.660E-05	4.869E-06	1.472E-06	7.772E-07	4.945E-07	2.590E-07	1.634E-07	1.148E-07
SW	391	1.341E-05	4.085E-06	1.252E-06	6.551E-07	4.131E-07	2.127E-07	1.326E-07	9.230E-08
WSW	344	1.586E-05	4.733E-06	1.444E-06	7.642E-07	4.861E-07	2.533E-07	1.588E-07	1.110E-07
W	362	1.507E-05	4.504E-06	1.405E-06	8.210E-07	5.222E-07	2.702E-07	1.532E-07	1.067E-07
WNW	258	1.294E-05	3.784E-06	1.270E-06	6.771E-07	4.325E-07	2.277E-07	1.580E-07	1.110E-07
NW	206	1.453E-05	4.182E-06	1.428E-06	7.675E-07	4.916E-07	2.591E-07	1.634E-07	1.149E-07
NNW	230	1.826E-05	5.274E-06	1.729E-06	9.383E-07	6.069E-07	3.233E-07	2.047E-07	1.443E-07
AVERAGE	8068	2.414E-05	7.036E-06	2.244E-06	1.200E-06	7.684E-07	4.087E-07	2.595E-07	1.833E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	575	1.729E-07	1.367E-07	1.116E-07	9.319E-08	7.935E-08	4.293E-08	2.787E-08	1.516E-08
NNE	1146	2.880E-07	2.281E-07	1.864E-07	1.560E-07	1.330E-07	7.226E-08	4.703E-08	2.569E-08
NE	898	3.285E-07	2.616E-07	2.149E-07	1.808E-07	1.550E-07	8.545E-08	5.619E-08	3.118E-08
ENE	814	2.741E-07	2.172E-07	1.776E-07	1.486E-07	1.268E-07	6.889E-08	4.486E-08	2.454E-08
E	773	1.828E-07	1.444E-07	1.178E-07	9.839E-08	8.377E-08	4.534E-08	2.939E-08	1.594E-08
ESE	542	1.169E-07	9.214E-08	7.500E-08	6.250E-08	5.310E-08	2.854E-08	1.841E-08	9.906E-09
SE	452	1.030E-07	8.115E-08	7.265E-08	6.053E-08	5.141E-08	2.510E-08	1.618E-08	8.702E-09
SSE	261	6.914E-08	5.454E-08	4.442E-08	3.702E-08	3.145E-08	1.690E-08	1.091E-08	5.891E-09
S	369	8.667E-08	6.832E-08	5.560E-08	4.633E-08	3.935E-08	2.111E-08	1.362E-08	7.336E-09
SSW	447	8.666E-08	6.830E-08	5.560E-08	4.633E-08	3.934E-08	2.111E-08	1.360E-08	7.317E-09
SW	391	6.892E-08	5.388E-08	4.357E-08	3.613E-08	3.055E-08	1.618E-08	1.030E-08	5.427E-09
WSW	344	8.330E-08	6.538E-08	5.834E-08	4.848E-08	4.108E-08	1.991E-08	1.275E-08	6.784E-09
W	362	7.990E-08	6.257E-08	5.064E-08	4.198E-08	3.550E-08	1.879E-08	1.297E-08	6.325E-09
WNW	258	8.370E-08	6.592E-08	4.874E-08	4.058E-08	3.445E-08	1.845E-08	1.188E-08	6.390E-09
NW	206	8.691E-08	6.855E-08	5.579E-08	4.643E-08	3.941E-08	2.108E-08	1.359E-08	7.330E-09
NNW	230	1.094E-07	8.651E-08	7.059E-08	5.893E-08	5.016E-08	2.712E-08	1.759E-08	9.550E-09
AVERAGE	8068	1.388E-07	1.097E-07	8.995E-08	7.514E-08	6.398E-08	3.432E-08	2.226E-08	1.209E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	575	9.706E-09	6.884E-09	5.227E-09	4.142E-09	3.364E-09	2.810E-09	2.386E-09
NNE	1146	1.650E-08	1.172E-08	8.919E-09	7.077E-09	5.756E-09	4.813E-09	4.091E-09
NE	898	2.020E-08	1.445E-08	1.105E-08	8.810E-09	7.192E-09	6.028E-09	5.135E-09
ENE	814	1.576E-08	1.121E-08	8.526E-09	6.768E-09	5.506E-09	4.605E-09	3.915E-09
E	773	1.021E-08	7.238E-09	5.495E-09	4.354E-09	3.537E-09	2.955E-09	2.510E-09
ESE	542	6.317E-09	4.467E-09	3.383E-09	2.676E-09	2.171E-09	1.813E-09	1.539E-09
SE	452	5.546E-09	3.920E-09	2.967E-09	2.346E-09	1.903E-09	1.588E-09	1.348E-09
SSE	261	3.762E-09	2.663E-09	2.018E-09	1.597E-09	1.296E-09	1.083E-09	9.197E-10
S	369	4.683E-09	3.314E-09	2.511E-09	1.988E-09	1.614E-09	1.349E-09	1.146E-09
SSW	447	4.670E-09	3.304E-09	2.504E-09	1.982E-09	1.609E-09	1.346E-09	1.144E-09
SW	391	3.428E-09	2.408E-09	1.814E-09	1.429E-09	1.156E-09	9.637E-10	8.172E-10
WSW	344	4.303E-09	3.032E-09	2.289E-09	1.806E-09	1.463E-09	1.220E-09	1.035E-09
W	362	3.994E-09	2.804E-09	2.111E-09	1.662E-09	1.343E-09	1.119E-09	9.483E-10
WNW	258	4.071E-09	2.877E-09	2.178E-09	1.722E-09	1.396E-09	1.166E-09	9.899E-10
NW	206	4.671E-09	3.301E-09	2.499E-09	1.976E-09	1.602E-09	1.339E-09	1.136E-09
NNW	230	6.107E-09	4.325E-09	3.280E-09	2.596E-09	2.106E-09	1.757E-09	1.490E-09
AVERAGE	8068	7.745E-09	5.495E-09	4.173E-09	3.308E-09	2.688E-09	2.247E-09	1.909E-09

Table B-7
Gamma γ /Q Factors for Reactor Building Vent

PILGRIM 1ST QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL
GROUND RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	145	5.136E-06	2.146E-06	8.940E-07	5.383E-07	3.803E-07	2.316E-07	1.623E-07	1.232E-07
NNE	250	8.372E-06	3.519E-06	1.480E-06	8.961E-07	6.336E-07	3.861E-07	2.706E-07	2.054E-07
NE	169	7.210E-06	3.043E-06	1.273E-06	7.719E-07	5.472E-07	3.361E-07	2.369E-07	1.807E-07
ENE	161	7.482E-06	3.150E-06	1.345E-06	8.216E-07	5.829E-07	3.565E-07	2.504E-07	1.903E-07
E	282	8.877E-06	3.626E-06	1.451E-06	8.474E-07	5.950E-07	3.572E-07	2.477E-07	1.864E-07
ESE	225	6.717E-06	2.751E-06	1.100E-06	6.417E-07	4.504E-07	2.709E-07	1.881E-07	1.416E-07
SE	173	5.285E-06	2.123E-06	8.209E-07	4.702E-07	3.307E-07	2.001E-07	1.397E-07	1.056E-07
SSE	55	2.814E-06	1.150E-06	4.580E-07	2.673E-07	1.872E-07	1.126E-07	7.828E-08	5.925E-08
S	61	2.998E-06	1.252E-06	4.622E-07	2.752E-07	1.948E-07	1.201E-07	8.495E-08	6.488E-08
SSW	66	2.984E-06	1.237E-06	4.567E-07	2.724E-07	1.933E-07	1.195E-07	8.468E-08	6.487E-08
SW	40	1.579E-06	6.479E-07	2.344E-07	1.372E-07	9.659E-08	5.897E-08	4.149E-08	3.163E-08
WSW	58	2.566E-06	1.021E-06	3.545E-07	2.014E-07	1.415E-07	8.528E-08	5.924E-08	4.465E-08
W	59	2.629E-06	9.848E-07	2.951E-07	1.663E-07	1.164E-07	6.996E-08	4.422E-08	3.344E-08
WNW	40	1.742E-06	7.014E-07	2.632E-07	1.483E-07	1.039E-07	6.335E-08	4.902E-08	3.734E-08
NW	39	2.321E-06	9.704E-07	4.110E-07	2.474E-07	1.741E-07	1.058E-07	7.406E-08	5.615E-08
NNW	59	3.055E-06	1.291E-06	5.464E-07	3.304E-07	2.329E-07	1.419E-07	9.959E-08	7.565E-08
AVERAGE	1882	4.485E-06	1.851E-06	7.404E-07	4.396E-07	3.100E-07	1.885E-07	1.319E-07	1.001E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	145	9.863E-08	8.164E-08	6.929E-08	5.986E-08	5.255E-08	3.206E-08	2.264E-08	1.386E-08
NNE	250	1.642E-07	1.358E-07	1.151E-07	9.942E-08	8.723E-08	5.314E-08	3.745E-08	2.285E-08
NE	169	1.450E-07	1.203E-07	1.023E-07	8.864E-08	7.799E-08	4.798E-08	3.406E-08	2.103E-08
ENE	161	1.524E-07	1.262E-07	1.071E-07	9.255E-08	8.123E-08	4.953E-08	3.495E-08	2.139E-08
E	282	1.478E-07	1.214E-07	1.024E-07	8.799E-08	7.685E-08	4.611E-08	3.207E-08	1.916E-08
ESE	225	1.123E-07	9.226E-08	7.781E-08	6.687E-08	5.843E-08	3.510E-08	2.443E-08	1.460E-08
SE	173	8.398E-08	6.919E-08	6.434E-08	5.541E-08	4.850E-08	2.664E-08	1.864E-08	1.125E-08
SSE	55	4.729E-08	3.906E-08	3.309E-08	2.854E-08	2.501E-08	1.518E-08	1.068E-08	6.501E-09
S	61	5.204E-08	4.319E-08	3.675E-08	3.187E-08	2.806E-08	1.731E-08	1.231E-08	7.604E-09
SSW	66	5.223E-08	4.346E-08	3.706E-08	3.217E-08	2.836E-08	1.755E-08	1.252E-08	7.779E-09
SW	40	2.535E-08	2.101E-08	1.786E-08	1.546E-08	1.359E-08	8.344E-09	5.909E-09	3.633E-09
WSW	58	3.548E-08	2.920E-08	2.713E-08	2.333E-08	2.040E-08	1.115E-08	7.792E-09	4.698E-09
W	59	2.665E-08	2.199E-08	1.861E-08	1.604E-08	1.405E-08	8.519E-09	5.981E-09	3.630E-09
WNW	40	2.987E-08	2.474E-08	1.911E-08	1.656E-08	1.457E-08	8.964E-09	6.360E-09	3.923E-09
NW	39	4.485E-08	3.705E-08	3.139E-08	2.707E-08	2.372E-08	1.436E-08	1.010E-08	6.156E-09
NNW	59	6.050E-08	5.004E-08	4.245E-08	3.667E-08	3.219E-08	1.964E-08	1.384E-08	8.446E-09
AVERAGE	1882	7.991E-08	6.603E-08	5.637E-08	4.865E-08	4.267E-08	2.572E-08	1.811E-08	1.103E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	145	9.801E-09	7.512E-09	6.074E-09	5.080E-09	4.333E-09	3.776E-09	3.334E-09
NNE	250	1.613E-08	1.234E-08	9.968E-09	8.329E-09	7.098E-09	6.180E-09	5.454E-09
NE	169	1.494E-08	1.150E-08	9.324E-09	7.817E-09	6.682E-09	5.830E-09	5.155E-09
ENE	161	1.511E-08	1.157E-08	9.349E-09	7.814E-09	6.661E-09	5.802E-09	5.121E-09
E	282	1.336E-08	1.013E-08	8.129E-09	6.754E-09	5.729E-09	4.970E-09	4.371E-09
ESE	225	1.019E-08	7.736E-09	6.211E-09	5.165E-09	4.384E-09	3.806E-09	3.349E-09
SE	173	7.898E-09	6.024E-09	4.852E-09	4.047E-09	3.444E-09	2.997E-09	2.643E-09
SSE	55	4.583E-09	3.504E-09	2.829E-09	2.363E-09	2.014E-09	1.754E-09	1.548E-09
S	61	5.414E-09	4.172E-09	3.388E-09	2.844E-09	2.434E-09	2.125E-09	1.881E-09
SSW	66	5.552E-09	4.284E-09	3.482E-09	2.924E-09	2.504E-09	2.188E-09	1.937E-09
SW	40	2.577E-09	1.981E-09	1.605E-09	1.345E-09	1.149E-09	1.002E-09	8.863E-10
WSW	58	3.294E-09	2.510E-09	2.022E-09	1.686E-09	1.435E-09	1.249E-09	1.101E-09
W	59	2.559E-09	1.958E-09	1.580E-09	1.321E-09	1.126E-09	9.817E-10	8.673E-10
WNW	40	2.794E-09	2.154E-09	1.751E-09	1.472E-09	1.261E-09	1.103E-09	9.770E-10
NW	39	4.342E-09	3.324E-09	2.685E-09	2.245E-09	1.916E-09	1.671E-09	1.477E-09
NNW	59	5.964E-09	4.568E-09	3.690E-09	3.085E-09	2.630E-09	2.291E-09	2.023E-09
AVERAGE	1882	7.782E-09	5.955E-09	4.809E-09	4.018E-09	3.425E-09	2.983E-09	2.633E-09

Table B-7
Gamma γ /Q Factors for Reactor Building Vent

PILGRIM 2ND QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL
GROUND RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	119	5.440E-06	2.302E-06	9.905E-07	5.977E-07	4.174E-07	2.491E-07	1.721E-07	1.292E-07
NNE	360	1.287E-05	5.437E-06	2.303E-06	1.386E-06	9.699E-07	5.817E-07	4.035E-07	3.043E-07
NE	173	8.718E-06	3.761E-06	1.622E-06	9.993E-07	7.082E-07	4.364E-07	3.085E-07	2.357E-07
ENE	116	7.020E-06	3.009E-06	1.313E-06	8.113E-07	5.747E-07	3.516E-07	2.472E-07	1.882E-07
E	82	4.649E-06	1.969E-06	8.402E-07	5.120E-07	3.614E-07	2.185E-07	1.521E-07	1.149E-07
ESE	56	3.708E-06	1.548E-06	6.560E-07	3.931E-07	2.748E-07	1.637E-07	1.128E-07	8.457E-08
SE	45	2.834E-06	1.191E-06	5.600E-07	3.390E-07	2.383E-07	1.427E-07	8.963E-08	6.725E-08
SSE	45	2.896E-06	1.218E-06	5.166E-07	2.830E-07	1.988E-07	1.192E-07	8.243E-08	6.186E-08
S	83	5.415E-06	2.219E-06	7.578E-07	4.466E-07	3.123E-07	1.860E-07	1.283E-07	9.626E-08
SSW	157	6.980E-06	2.850E-06	1.042E-06	6.061E-07	4.227E-07	2.507E-07	1.724E-07	1.290E-07
SW	170	6.690E-06	2.734E-06	9.863E-07	5.666E-07	3.921E-07	2.298E-07	1.565E-07	1.161E-07
WSW	141	7.806E-06	3.222E-06	1.193E-06	6.981E-07	4.858E-07	2.876E-07	1.974E-07	1.474E-07
W	136	7.252E-06	3.085E-06	1.195E-06	7.897E-07	5.500E-07	3.249E-07	2.023E-07	1.507E-07
WNW	54	3.300E-06	1.394E-06	6.017E-07	3.626E-07	2.532E-07	1.509E-07	1.146E-07	8.585E-08
NW	57	3.646E-06	1.550E-06	6.840E-07	4.172E-07	2.917E-07	1.739E-07	1.201E-07	9.009E-08
NNW	32	2.585E-06	1.095E-06	4.822E-07	2.935E-07	2.051E-07	1.217E-07	8.359E-08	6.245E-08
AVERAGE	1826	5.738E-06	2.412E-06	9.840E-07	5.939E-07	4.160E-07	2.493E-07	1.715E-07	1.290E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	119	1.023E-07	8.392E-08	7.065E-08	6.059E-08	5.283E-08	3.147E-08	2.181E-08	1.300E-08
NNE	360	2.420E-07	1.992E-07	1.682E-07	1.447E-07	1.266E-07	7.620E-08	5.322E-08	3.206E-08
NE	173	1.894E-07	1.574E-07	1.340E-07	1.162E-07	1.024E-07	6.315E-08	4.495E-08	2.786E-08
ENE	116	1.509E-07	1.251E-07	1.063E-07	9.197E-08	8.079E-08	4.941E-08	3.496E-08	2.148E-08
E	82	9.150E-08	7.544E-08	6.381E-08	5.496E-08	4.811E-08	2.908E-08	2.038E-08	1.234E-08
ESE	56	6.694E-08	5.486E-08	4.615E-08	3.953E-08	3.443E-08	2.043E-08	1.413E-08	8.387E-09
SE	45	5.328E-08	4.371E-08	4.048E-08	3.471E-08	3.026E-08	1.802E-08	1.249E-08	7.443E-09
SSE	45	4.895E-08	4.013E-08	3.378E-08	2.897E-08	2.525E-08	1.505E-08	1.043E-08	6.193E-09
S	83	7.628E-08	6.259E-08	5.270E-08	4.517E-08	3.936E-08	2.341E-08	1.622E-08	9.655E-09
SSW	157	1.017E-07	8.316E-08	6.982E-08	5.973E-08	5.197E-08	3.076E-08	2.116E-08	1.241E-08
SW	170	9.089E-08	7.384E-08	6.168E-08	5.255E-08	4.557E-08	2.663E-08	1.813E-08	1.047E-08
WSW	141	1.161E-07	9.480E-08	8.748E-08	7.481E-08	6.507E-08	3.496E-08	2.404E-08	1.412E-08
W	136	1.183E-07	9.641E-08	8.073E-08	6.894E-08	5.989E-08	3.526E-08	2.414E-08	1.404E-08
WNW	54	6.782E-08	5.551E-08	4.241E-08	3.630E-08	3.160E-08	1.871E-08	1.290E-08	7.622E-09
NW	57	7.135E-08	5.850E-08	4.922E-08	4.216E-08	3.671E-08	2.176E-08	1.504E-08	8.917E-09
NNW	32	4.927E-08	4.027E-08	3.378E-08	2.885E-08	2.506E-08	1.473E-08	1.010E-08	5.917E-09
AVERAGE	1826	1.023E-07	8.405E-08	7.133E-08	6.126E-08	5.349E-08	3.181E-08	2.213E-08	1.324E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	119	9.049E-09	6.856E-09	5.498E-09	4.569E-09	3.876E-09	3.366E-09	2.962E-09
NNE	360	2.245E-08	1.709E-08	1.375E-08	1.145E-08	9.734E-09	8.460E-09	7.452E-09
NE	173	1.984E-08	1.529E-08	1.242E-08	1.042E-08	8.920E-09	7.788E-09	6.892E-09
ENE	116	1.521E-08	1.167E-08	9.438E-09	7.896E-09	6.737E-09	5.871E-09	5.185E-09
E	82	8.660E-09	6.601E-09	5.317E-09	4.431E-09	3.768E-09	3.275E-09	2.884E-09
ESE	56	5.818E-09	4.398E-09	3.519E-09	2.919E-09	2.472E-09	2.144E-09	1.885E-09
SE	45	5.174E-09	3.915E-09	3.137E-09	2.603E-09	2.206E-09	1.913E-09	1.681E-09
SSE	45	4.301E-09	3.253E-09	2.604E-09	2.160E-09	1.829E-09	1.585E-09	1.393E-09
S	83	6.709E-09	5.077E-09	4.065E-09	3.373E-09	2.858E-09	2.480E-09	2.180E-09
SSW	157	8.557E-09	6.438E-09	5.129E-09	4.239E-09	3.578E-09	3.094E-09	2.712E-09
SW	170	7.157E-09	5.353E-09	4.253E-09	3.507E-09	2.955E-09	2.551E-09	2.233E-09
WSW	141	9.748E-09	7.344E-09	5.864E-09	4.855E-09	4.105E-09	3.554E-09	3.120E-09
W	136	9.630E-09	7.219E-09	5.740E-09	4.735E-09	3.989E-09	3.442E-09	3.011E-09
WNW	54	5.276E-09	3.983E-09	3.184E-09	2.639E-09	2.234E-09	1.937E-09	1.703E-09
NW	57	6.180E-09	4.667E-09	3.730E-09	3.092E-09	2.617E-09	2.269E-09	1.994E-09
NNW	32	4.069E-09	3.055E-09	2.430E-09	2.006E-09	1.692E-09	1.463E-09	1.282E-09
AVERAGE	1826	9.239E-09	7.013E-09	5.630E-09	4.681E-09	3.973E-09	3.450E-09	3.036E-09

Table B-7
Gamma χ/Q Factors for Reactor Building Vent

PILGRIM 3RD QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL
GROUND RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	221	9.902E-06	4.243E-06	1.858E-06	1.146E-06	8.101E-07	4.914E-07	3.431E-07	2.597E-07
NNE	363	1.382E-05	5.920E-06	2.574E-06	1.587E-06	1.125E-06	6.877E-07	4.831E-07	3.674E-07
NE	317	1.465E-05	6.352E-06	2.744E-06	1.689E-06	1.197E-06	7.412E-07	5.261E-07	4.032E-07
ENE	169	1.006E-05	4.342E-06	1.893E-06	1.173E-06	8.320E-07	5.117E-07	3.612E-07	2.758E-07
E	114	7.309E-06	3.115E-06	1.336E-06	8.198E-07	5.806E-07	3.536E-07	2.476E-07	1.879E-07
ESE	65	4.156E-06	1.754E-06	7.575E-07	4.604E-07	3.225E-07	1.931E-07	1.339E-07	1.012E-07
SE	66	3.957E-06	1.679E-06	8.005E-07	4.870E-07	3.411E-07	2.038E-07	1.282E-07	9.653E-08
SSE	63	3.547E-06	1.461E-06	6.030E-07	3.236E-07	2.259E-07	1.345E-07	9.288E-08	6.994E-08
S	89	4.936E-06	2.038E-06	7.044E-07	4.161E-07	2.903E-07	1.724E-07	1.187E-07	8.906E-08
SSW	147	6.062E-06	2.499E-06	9.304E-07	5.423E-07	3.748E-07	2.199E-07	1.505E-07	1.125E-07
SW	112	4.854E-06	2.055E-06	7.944E-07	4.718E-07	3.260E-07	1.905E-07	1.297E-07	9.626E-08
WSW	106	5.894E-06	2.509E-06	9.861E-07	5.963E-07	4.168E-07	2.477E-07	1.706E-07	1.275E-07
W	110	5.118E-06	2.180E-06	8.729E-07	5.842E-07	4.079E-07	2.417E-07	1.508E-07	1.125E-07
WNW	98	4.935E-06	2.098E-06	9.169E-07	5.638E-07	3.983E-07	2.405E-07	1.838E-07	1.386E-07
NW	51	3.772E-06	1.612E-06	7.198E-07	4.479E-07	3.175E-07	1.925E-07	1.342E-07	1.015E-07
NNW	77	6.660E-06	2.869E-06	1.260E-06	7.886E-07	5.630E-07	3.455E-07	2.428E-07	1.847E-07
AVERAGE	2168	6.852E-06	2.920E-06	1.235E-06	7.561E-07	5.330E-07	3.230E-07	2.248E-07	1.703E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	221	2.072E-07	1.711E-07	1.449E-07	1.249E-07	1.094E-07	6.626E-08	4.650E-08	2.819E-08
NNE	363	2.942E-07	2.437E-07	2.069E-07	1.788E-07	1.570E-07	9.595E-08	6.778E-08	4.152E-08
NE	317	3.244E-07	2.698E-07	2.301E-07	1.998E-07	1.762E-07	1.092E-07	7.795E-08	4.849E-08
ENE	169	2.216E-07	1.841E-07	1.568E-07	1.359E-07	1.196E-07	7.367E-08	5.237E-08	3.239E-08
E	114	1.504E-07	1.244E-07	1.056E-07	9.124E-08	8.008E-08	4.887E-08	3.450E-08	2.110E-08
ESE	65	8.082E-08	6.671E-08	5.646E-08	4.861E-08	4.253E-08	2.564E-08	1.795E-08	1.086E-08
SE	66	7.676E-08	6.316E-08	5.865E-08	5.039E-08	4.402E-08	2.639E-08	1.838E-08	1.102E-08
SSE	63	5.561E-08	4.575E-08	3.860E-08	3.315E-08	2.894E-08	1.732E-08	1.205E-08	7.211E-09
S	89	7.053E-08	5.784E-08	4.868E-08	4.171E-08	3.634E-08	2.158E-08	1.492E-08	8.852E-09
SSW	147	8.888E-08	7.273E-08	6.110E-08	5.227E-08	4.548E-08	2.690E-08	1.852E-08	1.091E-08
SW	112	7.536E-08	6.122E-08	5.113E-08	4.354E-08	3.773E-08	2.199E-08	1.493E-08	8.555E-09
WSW	106	1.005E-07	8.213E-08	7.581E-08	6.484E-08	5.641E-08	3.032E-08	2.082E-08	1.217E-08
W	110	8.863E-08	7.236E-08	6.066E-08	5.179E-08	4.498E-08	2.640E-08	1.808E-08	1.056E-08
WNW	98	1.103E-07	9.085E-08	6.977E-08	6.000E-08	5.244E-08	3.151E-08	2.200E-08	1.325E-08
NW	51	8.094E-08	6.678E-08	5.649E-08	4.862E-08	4.252E-08	2.561E-08	1.792E-08	1.082E-08
NNW	77	1.482E-07	1.229E-07	1.045E-07	9.037E-08	7.941E-08	4.867E-08	3.447E-08	2.116E-08
AVERAGE	2168	1.359E-07	1.122E-07	9.538E-08	8.225E-08	7.207E-08	4.352E-08	3.057E-08	1.857E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	221	1.980E-08	1.510E-08	1.216E-08	1.014E-08	8.619E-09	7.492E-09	6.600E-09
NNE	363	2.936E-08	2.250E-08	1.819E-08	1.521E-08	1.297E-08	1.130E-08	9.972E-09
NE	317	3.465E-08	2.677E-08	2.178E-08	1.831E-08	1.569E-08	1.372E-08	1.215E-08
ENE	169	2.303E-08	1.773E-08	1.438E-08	1.205E-08	1.030E-08	8.990E-09	7.949E-09
E	114	1.490E-08	1.141E-08	9.221E-09	7.705E-09	6.567E-09	5.716E-09	5.042E-09
ESE	65	7.610E-09	5.793E-09	4.656E-09	3.875E-09	3.291E-09	2.860E-09	2.518E-09
SE	66	7.686E-09	5.831E-09	4.676E-09	3.885E-09	3.294E-09	2.858E-09	2.514E-09
SSE	63	5.027E-09	3.812E-09	3.056E-09	2.538E-09	2.152E-09	1.868E-09	1.644E-09
S	89	6.139E-09	4.638E-09	3.708E-09	3.074E-09	2.602E-09	2.256E-09	1.983E-09
SSW	147	7.543E-09	5.684E-09	4.538E-09	3.756E-09	3.177E-09	2.752E-09	2.417E-09
SW	112	5.817E-09	4.331E-09	3.425E-09	2.813E-09	2.362E-09	2.033E-09	1.775E-09
WSW	106	8.373E-09	6.288E-09	5.003E-09	4.129E-09	3.482E-09	3.007E-09	2.633E-09
W	110	7.256E-09	5.442E-09	4.329E-09	3.573E-09	3.013E-09	2.605E-09	2.283E-09
WNW	98	9.263E-09	7.040E-09	5.656E-09	4.705E-09	3.995E-09	3.469E-09	3.053E-09
NW	51	7.574E-09	5.760E-09	4.627E-09	3.849E-09	3.268E-09	2.838E-09	2.498E-09
NNW	77	1.497E-08	1.147E-08	9.268E-09	7.743E-09	6.597E-09	5.739E-09	5.060E-09
AVERAGE	2168	1.306E-08	9.974E-09	8.042E-09	6.710E-09	5.711E-09	4.969E-09	4.381E-09

Table B-7
Gamma χ/Q Factors for Reactor Building Vent

PILGRIM 4TH QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL
GROUND RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	90	4.876E-06	2.090E-06	9.239E-07	5.748E-07	4.080E-07	2.485E-07	1.739E-07	1.318E-07
NNE	173	7.293E-06	3.115E-06	1.372E-06	8.471E-07	5.986E-07	3.629E-07	2.533E-07	1.917E-07
NE	239	9.774E-06	4.198E-06	1.825E-06	1.129E-06	8.016E-07	4.922E-07	3.469E-07	2.645E-07
ENE	368	1.309E-05	5.576E-06	2.441E-06	1.492E-06	1.046E-06	6.281E-07	4.359E-07	3.286E-07
E	295	8.948E-06	3.779E-06	1.595E-06	9.534E-07	6.654E-07	3.974E-07	2.750E-07	2.068E-07
ESE	196	6.155E-06	2.591E-06	1.086E-06	6.476E-07	4.520E-07	2.690E-07	1.856E-07	1.393E-07
SE	168	5.784E-06	2.442E-06	1.042E-06	6.296E-07	4.424E-07	2.650E-07	1.834E-07	1.377E-07
SSE	98	3.615E-06	1.514E-06	6.394E-07	3.837E-07	2.690E-07	1.608E-07	1.112E-07	8.359E-08
S	136	4.807E-06	2.018E-06	7.759E-07	4.633E-07	3.233E-07	1.918E-07	1.320E-07	9.872E-08
SSW	77	2.731E-06	1.125E-06	4.226E-07	2.490E-07	1.740E-07	1.035E-07	7.141E-08	5.355E-08
SW	69	2.992E-06	1.281E-06	5.004E-07	2.987E-07	2.058E-07	1.199E-07	8.155E-08	6.055E-08
WSW	39	1.792E-06	7.619E-07	2.984E-07	1.800E-07	1.257E-07	7.452E-08	5.125E-08	3.829E-08
W	57	2.381E-06	1.024E-06	4.169E-07	2.815E-07	1.971E-07	1.171E-07	7.325E-08	5.467E-08
WNW	66	2.434E-06	1.046E-06	4.682E-07	2.880E-07	2.020E-07	1.203E-07	9.123E-08	6.822E-08
NW	59	3.633E-06	1.541E-06	6.810E-07	4.193E-07	2.957E-07	1.780E-07	1.236E-07	9.315E-08
NNW	62	3.154E-06	1.343E-06	5.983E-07	3.695E-07	2.603E-07	1.565E-07	1.084E-07	8.162E-08
AVERAGE	2192	5.216E-06	2.215E-06	9.430E-07	5.754E-07	4.042E-07	2.429E-07	1.686E-07	1.270E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	90	1.054E-07	8.711E-08	7.384E-08	6.370E-08	5.584E-08	3.391E-08	2.386E-08	1.453E-08
NNE	173	1.530E-07	1.263E-07	1.069E-07	9.214E-08	8.068E-08	4.880E-08	3.423E-08	2.075E-08
NE	239	2.123E-07	1.761E-07	1.498E-07	1.298E-07	1.141E-07	7.014E-08	4.975E-08	3.065E-08
ENE	368	2.612E-07	2.149E-07	1.814E-07	1.559E-07	1.362E-07	8.169E-08	5.688E-08	3.408E-08
E	295	1.637E-07	1.343E-07	1.131E-07	9.710E-08	8.476E-08	5.071E-08	3.518E-08	2.091E-08
ESE	196	1.101E-07	9.027E-08	7.598E-08	6.518E-08	5.685E-08	3.395E-08	2.350E-08	1.390E-08
SE	168	1.090E-07	8.934E-08	8.272E-08	7.095E-08	6.187E-08	3.356E-08	2.322E-08	1.373E-08
SSE	98	6.629E-08	5.445E-08	4.589E-08	3.939E-08	3.438E-08	2.056E-08	1.427E-08	8.508E-09
S	136	7.787E-08	6.366E-08	5.345E-08	4.574E-08	3.980E-08	2.356E-08	1.620E-08	9.496E-09
SSW	77	4.235E-08	3.469E-08	2.916E-08	2.497E-08	2.174E-08	1.290E-08	8.887E-09	5.229E-09
SW	69	4.739E-08	3.850E-08	3.216E-08	2.740E-08	2.375E-08	1.387E-08	9.416E-09	5.386E-09
WSW	39	3.014E-08	2.460E-08	2.269E-08	1.940E-08	1.687E-08	9.052E-09	6.200E-09	3.600E-09
W	57	4.301E-08	3.507E-08	2.937E-08	2.507E-08	2.176E-08	1.277E-08	8.709E-09	5.033E-09
WNW	66	5.377E-08	4.392E-08	3.349E-08	2.861E-08	2.487E-08	1.465E-08	1.003E-08	5.836E-09
NW	59	7.412E-08	6.101E-08	5.151E-08	4.425E-08	3.865E-08	2.314E-08	1.612E-08	9.674E-09
NNW	62	6.488E-08	5.337E-08	4.503E-08	3.865E-08	3.373E-08	2.015E-08	1.401E-08	8.403E-09
AVERAGE	2192	1.009E-07	8.297E-08	7.041E-08	6.051E-08	5.287E-08	3.146E-08	2.190E-08	1.311E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	90	1.023E-08	7.810E-09	6.296E-09	5.252E-09	4.469E-09	3.887E-09	3.426E-09
NNE	173	1.457E-08	1.111E-08	8.950E-09	7.460E-09	6.345E-09	5.518E-09	4.863E-09
NE	239	2.175E-08	1.671E-08	1.354E-08	1.134E-08	9.680E-09	8.440E-09	7.457E-09
ENE	368	2.378E-08	1.805E-08	1.448E-08	1.204E-08	1.021E-08	8.866E-09	7.801E-09
E	295	1.455E-08	1.102E-08	8.829E-09	7.332E-09	6.216E-09	5.391E-09	4.740E-09
ESE	196	9.637E-09	7.279E-09	5.819E-09	4.821E-09	4.078E-09	3.530E-09	3.098E-09
SE	168	9.507E-09	7.175E-09	5.729E-09	4.742E-09	4.008E-09	3.467E-09	3.040E-09
SSE	98	5.919E-09	4.482E-09	3.591E-09	2.980E-09	2.525E-09	2.190E-09	1.924E-09
S	136	6.543E-09	4.919E-09	3.918E-09	3.237E-09	2.732E-09	2.361E-09	2.069E-09
SSW	77	3.610E-09	2.718E-09	2.165E-09	1.790E-09	1.511E-09	1.307E-09	1.147E-09
SW	69	3.659E-09	2.722E-09	2.151E-09	1.764E-09	1.480E-09	1.272E-09	1.110E-09
WSW	39	2.467E-09	1.847E-09	1.465E-09	1.206E-09	1.015E-09	8.745E-10	7.642E-10
W	57	3.435E-09	2.563E-09	2.028E-09	1.666E-09	1.399E-09	1.205E-09	1.052E-09
WNW	66	3.999E-09	2.994E-09	2.375E-09	1.955E-09	1.645E-09	1.418E-09	1.240E-09
NW	59	6.749E-09	5.121E-09	4.107E-09	3.413E-09	2.894E-09	2.513E-09	2.211E-09
NNW	62	5.859E-09	4.443E-09	3.564E-09	2.962E-09	2.513E-09	2.182E-09	1.920E-09
AVERAGE	2192	9.141E-09	6.935E-09	5.563E-09	4.622E-09	3.920E-09	3.401E-09	2.991E-09

Table B-7
Gamma χ/Q Factors for Reactor Building Vent

PILGRIM 2000 ANNUAL GENERAL X/Q'S- GROUND LEVEL
GROUND RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	575	6.322E-06	2.689E-06	1.165E-06	7.144E-07	5.044E-07	3.057E-07	2.134E-07	1.615E-07
NNE	1146	1.036E-05	4.401E-06	1.894E-06	1.157E-06	8.168E-07	4.961E-07	3.470E-07	2.631E-07
NE	898	1.012E-05	4.351E-06	1.872E-06	1.151E-06	8.161E-07	5.032E-07	3.559E-07	2.721E-07
ENE	814	9.507E-06	4.058E-06	1.765E-06	1.084E-06	7.659E-07	4.660E-07	3.264E-07	2.478E-07
E	773	7.437E-06	3.120E-06	1.307E-06	7.840E-07	5.512E-07	3.321E-07	2.310E-07	1.743E-07
ESE	542	5.129E-06	2.140E-06	8.925E-07	5.316E-07	3.721E-07	2.225E-07	1.540E-07	1.159E-07
SE	452	4.461E-06	1.860E-06	7.776E-07	4.648E-07	3.264E-07	1.959E-07	1.358E-07	1.023E-07
SSE	261	3.061E-06	1.270E-06	5.273E-07	3.135E-07	2.196E-07	1.314E-07	9.099E-08	6.853E-08
S	369	4.277E-06	1.775E-06	6.693E-07	3.970E-07	2.778E-07	1.662E-07	1.150E-07	8.649E-08
SSW	447	4.541E-06	1.868E-06	6.917E-07	4.050E-07	2.825E-07	1.683E-07	1.162E-07	8.740E-08
SW	391	3.909E-06	1.633E-06	6.146E-07	3.608E-07	2.498E-07	1.468E-07	1.003E-07	7.470E-08
WSW	344	4.319E-06	1.801E-06	6.813E-07	4.039E-07	2.822E-07	1.679E-07	1.157E-07	8.660E-08
W	362	4.170E-06	1.747E-06	6.706E-07	4.403E-07	3.075E-07	1.825E-07	1.141E-07	8.524E-08
WNW	258	3.092E-06	1.306E-06	5.622E-07	3.410E-07	2.397E-07	1.441E-07	1.100E-07	8.276E-08
NW	206	3.318E-06	1.407E-06	6.195E-07	3.806E-07	2.683E-07	1.618E-07	1.125E-07	8.492E-08
NNW	230	3.898E-06	1.664E-06	7.283E-07	4.500E-07	3.187E-07	1.936E-07	1.353E-07	1.024E-07
AVERAGE	8068	5.495E-06	2.318E-06	9.649E-07	5.862E-07	4.124E-07	2.490E-07	1.734E-07	1.310E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	575	1.289E-07	1.064E-07	9.006E-08	7.763E-08	6.800E-08	4.118E-08	2.890E-08	1.753E-08
NNE	1146	2.102E-07	1.737E-07	1.472E-07	1.270E-07	1.114E-07	6.771E-08	4.764E-08	2.901E-08
NE	898	2.187E-07	1.817E-07	1.548E-07	1.342E-07	1.182E-07	7.300E-08	5.196E-08	3.220E-08
ENE	814	1.982E-07	1.639E-07	1.390E-07	1.201E-07	1.053E-07	6.410E-08	4.515E-08	2.755E-08
E	773	1.386E-07	1.142E-07	9.647E-08	8.304E-08	7.265E-08	4.384E-08	3.065E-08	1.846E-08
ESE	542	9.199E-08	7.559E-08	6.375E-08	5.476E-08	4.782E-08	2.866E-08	1.993E-08	1.190E-08
SE	452	8.116E-08	6.670E-08	6.188E-08	5.315E-08	4.642E-08	2.529E-08	1.759E-08	1.050E-08
SSE	261	5.445E-08	4.479E-08	3.780E-08	3.248E-08	2.838E-08	1.702E-08	1.186E-08	7.107E-09
S	369	6.859E-08	5.634E-08	4.749E-08	4.078E-08	3.559E-08	2.129E-08	1.479E-08	8.826E-09
SSW	447	6.929E-08	5.688E-08	4.794E-08	4.114E-08	3.590E-08	2.146E-08	1.489E-08	8.860E-09
SW	391	5.865E-08	4.777E-08	3.999E-08	3.414E-08	2.965E-08	1.743E-08	1.191E-08	6.905E-09
WSW	344	6.834E-08	5.590E-08	5.166E-08	4.423E-08	3.851E-08	2.077E-08	1.431E-08	8.420E-09
W	362	6.717E-08	5.487E-08	4.604E-08	3.936E-08	3.423E-08	2.021E-08	1.388E-08	8.121E-09
WNW	258	6.567E-08	5.396E-08	4.136E-08	3.552E-08	3.101E-08	1.856E-08	1.290E-08	7.704E-09
NW	206	6.762E-08	5.570E-08	4.706E-08	4.046E-08	3.535E-08	2.122E-08	1.480E-08	8.907E-09
NNW	230	8.180E-08	6.757E-08	5.724E-08	4.936E-08	4.324E-08	2.622E-08	1.842E-08	1.118E-08
AVERAGE	8068	1.043E-07	8.600E-08	7.311E-08	6.296E-08	5.511E-08	3.300E-08	2.310E-08	1.395E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	575	1.232E-08	9.404E-09	7.577E-09	6.319E-09	5.376E-09	4.675E-09	4.121E-09
NNE	1146	2.044E-08	1.563E-08	1.261E-08	1.053E-08	8.967E-09	7.805E-09	6.884E-09
NE	898	2.294E-08	1.768E-08	1.436E-08	1.205E-08	1.031E-08	9.007E-09	7.971E-09
ENE	814	1.944E-08	1.487E-08	1.201E-08	1.003E-08	8.547E-09	7.442E-09	6.567E-09
E	773	1.293E-08	9.841E-09	7.915E-09	6.592E-09	5.601E-09	4.866E-09	4.285E-09
ESE	542	8.294E-09	6.289E-09	5.042E-09	4.188E-09	3.551E-09	3.081E-09	2.709E-09
SE	452	7.319E-09	5.549E-09	4.448E-09	3.694E-09	3.132E-09	2.717E-09	2.389E-09
SSE	261	4.961E-09	3.767E-09	3.023E-09	2.513E-09	2.133E-09	1.852E-09	1.629E-09
S	369	6.147E-09	4.660E-09	3.736E-09	3.104E-09	2.632E-09	2.285E-09	2.010E-09
SSW	447	6.163E-09	4.667E-09	3.738E-09	3.103E-09	2.630E-09	2.281E-09	2.006E-09
SW	391	4.732E-09	3.544E-09	2.817E-09	2.323E-09	1.957E-09	1.689E-09	1.479E-09
WSW	344	5.817E-09	4.383E-09	3.498E-09	2.895E-09	2.447E-09	2.117E-09	1.857E-09
W	362	5.590E-09	4.199E-09	3.344E-09	2.762E-09	2.330E-09	2.014E-09	1.765E-09
WNW	258	5.368E-09	4.069E-09	3.263E-09	2.711E-09	2.299E-09	1.995E-09	1.755E-09
NW	206	6.226E-09	4.731E-09	3.799E-09	3.160E-09	2.683E-09	2.331E-09	2.052E-09
NNW	230	7.864E-09	6.000E-09	4.834E-09	4.030E-09	3.428E-09	2.980E-09	2.625E-09
AVERAGE	8068	9.784E-09	7.455E-09	6.001E-09	5.000E-09	4.252E-09	3.696E-09	3.256E-09

Table B-8
Deposition D/Q Factors for Reactor Building Vent

PILGRIM 1ST QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	145	1.303E-07	4.383E-08	1.480E-08	7.810E-09	4.832E-09	2.337E-09	1.426E-09	9.715E-10
NNE	250	2.247E-07	7.556E-08	2.552E-08	1.347E-08	8.331E-09	4.029E-09	2.458E-09	1.675E-09
NE	169	1.519E-07	5.108E-08	1.725E-08	9.103E-09	5.632E-09	2.723E-09	1.662E-09	1.132E-09
ENE	161	1.447E-07	4.866E-08	1.643E-08	8.672E-09	5.365E-09	2.595E-09	1.583E-09	1.079E-09
E	282	2.535E-07	8.523E-08	2.878E-08	1.519E-08	9.398E-09	4.544E-09	2.773E-09	1.889E-09
ESE	225	2.022E-07	6.801E-08	2.297E-08	1.212E-08	7.498E-09	3.626E-09	2.212E-09	1.507E-09
SE	173	1.555E-07	5.229E-08	1.766E-08	9.318E-09	5.765E-09	2.788E-09	1.701E-09	1.159E-09
SSE	55	4.943E-08	1.662E-08	5.614E-09	2.962E-09	1.833E-09	8.863E-10	5.407E-10	3.685E-10
S	61	6.031E-08	2.028E-08	6.226E-09	3.286E-09	2.033E-09	9.830E-10	5.997E-10	4.087E-10
SSW	66	6.525E-08	2.194E-08	6.737E-09	3.555E-09	2.199E-09	1.064E-09	6.489E-10	4.422E-10
SW	40	3.955E-08	1.330E-08	4.083E-09	2.154E-09	1.333E-09	6.446E-10	3.933E-10	2.680E-10
WSW	58	5.734E-08	1.928E-08	5.920E-09	3.124E-09	1.933E-09	9.347E-10	5.702E-10	3.886E-10
W	59	5.833E-08	1.962E-08	6.022E-09	3.496E-09	2.163E-09	1.046E-09	5.801E-10	3.953E-10
WNW	40	3.595E-08	1.209E-08	4.083E-09	2.154E-09	1.333E-09	6.446E-10	4.326E-10	2.948E-10
NW	39	3.505E-08	1.179E-08	3.981E-09	2.101E-09	1.300E-09	6.285E-10	3.834E-10	2.613E-10
NNW	59	5.303E-08	1.783E-08	6.022E-09	3.178E-09	1.966E-09	9.508E-10	5.801E-10	3.953E-10
AVERAGE	1882	1.073E-07	3.609E-08	1.201E-08	6.355E-09	3.932E-09	1.901E-09	1.159E-09	7.897E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	145	7.108E-10	5.437E-10	4.299E-10	3.455E-10	2.851E-10	1.429E-10	8.788E-11	4.336E-11
NNE	250	1.226E-09	9.374E-10	7.412E-10	5.957E-10	4.915E-10	2.464E-10	1.515E-10	7.476E-11
NE	169	8.285E-10	6.337E-10	5.011E-10	4.027E-10	3.322E-10	1.666E-10	1.024E-10	5.054E-11
ENE	161	7.893E-10	6.037E-10	4.774E-10	3.836E-10	3.165E-10	1.587E-10	9.758E-11	4.815E-11
E	282	1.382E-09	1.057E-09	8.361E-10	6.719E-10	5.544E-10	2.780E-10	1.709E-10	8.433E-11
ESE	225	1.103E-09	8.437E-10	6.671E-10	5.361E-10	4.423E-10	2.218E-10	1.364E-10	6.729E-11
SE	173	8.481E-10	6.487E-10	5.642E-10	4.534E-10	3.741E-10	1.705E-10	1.049E-10	5.174E-11
SSE	55	2.696E-10	2.062E-10	1.631E-10	1.310E-10	1.081E-10	5.421E-11	3.334E-11	1.645E-11
S	61	2.990E-10	2.287E-10	1.809E-10	1.453E-10	1.199E-10	6.013E-11	3.697E-11	1.824E-11
SSW	66	3.236E-10	2.475E-10	1.957E-10	1.573E-10	1.297E-10	6.505E-11	4.000E-11	1.974E-11
SW	40	1.961E-10	1.500E-10	1.186E-10	9.531E-11	7.864E-11	3.943E-11	2.424E-11	1.196E-11
WSW	58	2.843E-10	2.175E-10	1.892E-10	1.520E-10	1.254E-10	5.717E-11	3.515E-11	1.734E-11
W	59	2.892E-10	2.212E-10	1.749E-10	1.406E-10	1.160E-10	5.815E-11	3.576E-11	1.764E-11
WNW	40	2.157E-10	1.650E-10	1.186E-10	9.531E-11	7.864E-11	3.943E-11	2.424E-11	1.196E-11
NW	39	1.912E-10	1.462E-10	1.156E-10	9.292E-11	7.667E-11	3.844E-11	2.364E-11	1.166E-11
NNW	59	2.892E-10	2.212E-10	1.749E-10	1.406E-10	1.160E-10	5.815E-11	3.576E-11	1.764E-11
AVERAGE	1882	5.779E-10	4.420E-10	3.530E-10	2.837E-10	2.341E-10	1.159E-10	7.129E-11	3.518E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		25.00	30.00	34.95	40.00	45.00	50.00	
N	145	2.665E-11	1.794E-11	1.264E-11	9.480E-12	7.375E-12	6.031E-12	5.008E-12
NNE	250	4.595E-11	3.094E-11	2.180E-11	1.635E-11	1.271E-11	1.040E-11	8.634E-12
NE	169	3.106E-11	2.091E-11	1.474E-11	1.105E-11	8.595E-12	7.029E-12	5.837E-12
ENE	161	2.959E-11	1.992E-11	1.404E-11	1.053E-11	8.188E-12	6.697E-12	5.560E-12
E	282	5.183E-11	3.490E-11	2.459E-11	1.844E-11	1.434E-11	1.173E-11	9.739E-12
ESE	225	4.136E-11	2.784E-11	1.962E-11	1.471E-11	1.144E-11	9.359E-12	7.771E-12
SE	173	3.180E-11	2.141E-11	1.508E-11	1.131E-11	8.799E-12	7.196E-12	5.975E-12
SSE	55	1.011E-11	6.806E-12	4.796E-12	3.596E-12	2.797E-12	2.288E-12	1.900E-12
S	61	1.121E-11	7.549E-12	5.319E-12	3.988E-12	3.102E-12	2.537E-12	2.107E-12
SSW	66	1.213E-11	8.168E-12	5.755E-12	4.315E-12	3.357E-12	2.745E-12	2.279E-12
SW	40	7.352E-12	4.950E-12	3.488E-12	2.615E-12	2.034E-12	1.664E-12	1.381E-12
WSW	58	1.066E-11	7.178E-12	5.057E-12	3.792E-12	2.950E-12	2.412E-12	2.003E-12
W	59	1.084E-11	7.301E-12	5.145E-12	3.857E-12	3.001E-12	2.454E-12	2.038E-12
WNW	40	7.352E-12	4.950E-12	3.488E-12	2.615E-12	2.034E-12	1.664E-12	1.381E-12
NW	39	7.168E-12	4.826E-12	3.401E-12	2.550E-12	1.984E-12	1.622E-12	1.347E-12
NNW	59	1.084E-11	7.301E-12	5.145E-12	3.857E-12	3.001E-12	2.454E-12	2.038E-12
AVERAGE	1882	2.162E-11	1.456E-11	1.026E-11	7.690E-12	5.982E-12	4.892E-12	4.062E-12

Table B-8
Deposition D/Q Factors for Reactor Building Vent

PILGRIM 2ND QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	119	1.102E-07	3.707E-08	1.252E-08	6.606E-09	4.087E-09	1.977E-09	1.206E-09	8.217E-10
NNE	360	3.335E-07	1.121E-07	3.787E-08	1.998E-08	1.236E-08	5.979E-09	3.648E-09	2.486E-09
NE	173	1.603E-07	5.389E-08	1.820E-08	9.604E-09	5.942E-09	2.873E-09	1.753E-09	1.195E-09
ENE	116	1.075E-07	3.614E-08	1.220E-08	6.439E-09	3.984E-09	1.927E-09	1.175E-09	8.010E-10
E	82	7.596E-08	2.554E-08	8.626E-09	4.552E-09	2.816E-09	1.362E-09	8.309E-10	5.662E-10
ESE	56	5.187E-08	1.744E-08	5.891E-09	3.109E-09	1.923E-09	9.301E-10	5.675E-10	3.867E-10
SE	45	4.168E-08	1.402E-08	5.207E-09	2.748E-09	1.700E-09	8.222E-10	4.560E-10	3.107E-10
SSE	45	4.585E-08	1.542E-08	5.207E-09	2.498E-09	1.546E-09	7.474E-10	4.560E-10	3.107E-10
S	83	9.226E-08	3.103E-08	8.732E-09	4.608E-09	2.851E-09	1.379E-09	8.411E-10	5.731E-10
SSW	157	1.600E-07	5.380E-08	1.652E-08	8.716E-09	5.392E-09	2.608E-09	1.591E-09	1.084E-09
SW	170	1.732E-07	5.825E-08	1.788E-08	9.437E-09	5.839E-09	2.824E-09	1.723E-09	1.174E-09
WSW	141	1.437E-07	4.832E-08	1.483E-08	7.827E-09	4.843E-09	2.342E-09	1.429E-09	9.736E-10
W	136	1.386E-07	4.660E-08	1.431E-08	8.305E-09	5.138E-09	2.485E-09	1.378E-09	9.391E-10
WNW	54	5.002E-08	1.682E-08	5.681E-09	2.998E-09	1.855E-09	8.969E-10	6.019E-10	4.102E-10
NW	57	5.280E-08	1.776E-08	5.996E-09	3.164E-09	1.958E-09	9.467E-10	5.776E-10	3.936E-10
NNW	32	2.964E-08	9.968E-09	3.366E-09	1.776E-09	1.099E-09	5.315E-10	3.243E-10	2.210E-10
AVERAGE	1826	1.104E-07	3.714E-08	1.207E-08	6.398E-09	3.959E-09	1.914E-09	1.160E-09	7.904E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	119	6.013E-10	4.599E-10	3.637E-10	2.922E-10	2.411E-10	1.209E-10	7.434E-11	3.668E-11
NNE	360	1.819E-09	1.391E-09	1.100E-09	8.841E-10	7.294E-10	3.657E-10	2.249E-10	1.110E-10
NE	173	8.741E-10	6.686E-10	5.287E-10	4.248E-10	3.505E-10	1.757E-10	1.081E-10	5.332E-11
ENE	116	5.861E-10	4.483E-10	3.545E-10	2.849E-10	2.350E-10	1.178E-10	7.246E-11	3.575E-11
E	82	4.143E-10	3.169E-10	2.506E-10	2.014E-10	1.661E-10	8.330E-11	5.122E-11	2.527E-11
ESE	56	2.830E-10	2.164E-10	1.711E-10	1.375E-10	1.135E-10	5.689E-11	3.498E-11	1.726E-11
SE	45	2.274E-10	1.739E-10	1.513E-10	1.216E-10	1.003E-10	5.029E-11	3.092E-11	1.526E-11
SSE	45	2.274E-10	1.739E-10	1.375E-10	1.105E-10	9.118E-11	4.572E-11	2.811E-11	1.387E-11
S	83	4.194E-10	3.208E-10	2.536E-10	2.038E-10	1.682E-10	8.432E-11	5.185E-11	2.558E-11
SSW	157	7.933E-10	6.068E-10	4.798E-10	3.856E-10	3.181E-10	1.595E-10	9.808E-11	4.839E-11
SW	170	8.590E-10	6.570E-10	5.195E-10	4.175E-10	3.445E-10	1.727E-10	1.062E-10	5.240E-11
WSW	141	7.124E-10	5.449E-10	4.740E-10	3.809E-10	3.143E-10	1.432E-10	8.808E-11	4.346E-11
W	136	6.872E-10	5.256E-10	4.156E-10	3.340E-10	2.756E-10	1.382E-10	8.496E-11	4.192E-11
WNW	54	3.001E-10	2.296E-10	1.650E-10	1.326E-10	1.094E-10	5.486E-11	3.373E-11	1.664E-11
NW	57	2.880E-10	2.203E-10	1.742E-10	1.400E-10	1.155E-10	5.791E-11	3.561E-11	1.757E-11
NNW	32	1.617E-10	1.237E-10	9.779E-11	7.858E-11	6.484E-11	3.251E-11	1.999E-11	9.863E-12
AVERAGE	1826	5.783E-10	4.424E-10	3.523E-10	2.831E-10	2.336E-10	1.162E-10	7.147E-11	3.526E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		25.00	30.00	34.95	40.00	45.00	50.00	
N	119	2.254E-11	1.518E-11	1.069E-11	8.019E-12	6.238E-12	5.101E-12	4.236E-12
NNE	360	6.820E-11	4.592E-11	3.235E-11	2.426E-11	1.887E-11	1.543E-11	1.281E-11
NE	173	3.277E-11	2.207E-11	1.555E-11	1.166E-11	9.068E-12	7.416E-12	6.158E-12
ENE	116	2.198E-11	1.480E-11	1.042E-11	7.817E-12	6.081E-12	4.973E-12	4.129E-12
E	82	1.553E-11	1.046E-11	7.369E-12	5.526E-12	4.298E-12	3.515E-12	2.919E-12
ESE	56	1.061E-11	7.143E-12	5.033E-12	3.774E-12	2.935E-12	2.401E-12	1.993E-12
SE	45	9.377E-12	6.314E-12	4.449E-12	3.336E-12	2.595E-12	2.122E-12	1.762E-12
SSE	45	8.525E-12	5.740E-12	4.044E-12	3.032E-12	2.359E-12	1.929E-12	1.602E-12
S	83	1.572E-11	1.059E-11	7.459E-12	5.593E-12	4.351E-12	3.558E-12	2.954E-12
SSW	157	2.974E-11	2.002E-11	1.411E-11	1.058E-11	8.230E-12	6.731E-12	5.589E-12
SW	170	3.221E-11	2.168E-11	1.528E-11	1.146E-11	8.911E-12	7.288E-12	6.051E-12
WSW	141	2.671E-11	1.798E-11	1.267E-11	9.501E-12	7.391E-12	6.045E-12	5.019E-12
W	136	2.576E-11	1.735E-11	1.222E-11	9.164E-12	7.129E-12	5.830E-12	4.841E-12
WNW	54	1.023E-11	6.887E-12	4.853E-12	3.639E-12	2.831E-12	2.315E-12	1.922E-12
NW	57	1.080E-11	7.270E-12	5.123E-12	3.841E-12	2.988E-12	2.444E-12	2.029E-12
NNW	32	6.062E-12	4.081E-12	2.876E-12	2.156E-12	1.677E-12	1.372E-12	1.139E-12
AVERAGE	1826	2.167E-11	1.459E-11	1.028E-11	7.709E-12	5.997E-12	4.905E-12	4.072E-12

Table B-8
Deposition D/Q Factors for Reactor Building Vent

PILGRIM 3RD QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	221	1.724E-07	5.798E-08	1.958E-08	1.033E-08	6.393E-09	3.092E-09	1.886E-09	1.285E-09
NNE	363	2.832E-07	9.524E-08	3.216E-08	1.697E-08	1.050E-08	5.078E-09	3.098E-09	2.111E-09
NE	317	2.473E-07	8.317E-08	2.809E-08	1.482E-08	9.170E-09	4.435E-09	2.706E-09	1.844E-09
ENE	169	1.319E-07	4.434E-08	1.497E-08	7.902E-09	4.889E-09	2.364E-09	1.442E-09	9.829E-10
E	114	8.894E-08	2.991E-08	1.010E-08	5.330E-09	3.298E-09	1.595E-09	9.730E-10	6.630E-10
ESE	65	5.071E-08	1.705E-08	5.759E-09	3.039E-09	1.880E-09	9.093E-10	5.548E-10	3.780E-10
SE	66	5.149E-08	1.732E-08	6.433E-09	3.394E-09	2.100E-09	1.016E-09	5.633E-10	3.839E-10
SSE	63	5.407E-08	1.818E-08	6.140E-09	2.946E-09	1.822E-09	8.813E-10	5.377E-10	3.664E-10
S	89	8.333E-08	2.802E-08	7.886E-09	4.161E-09	2.575E-09	1.245E-09	7.596E-10	5.176E-10
SSW	147	1.262E-07	4.243E-08	1.303E-08	6.873E-09	4.252E-09	2.056E-09	1.255E-09	8.549E-10
SW	112	9.612E-08	3.232E-08	9.924E-09	5.237E-09	3.240E-09	1.567E-09	9.559E-10	6.514E-10
WSW	106	9.097E-08	3.059E-08	9.392E-09	4.956E-09	3.066E-09	1.483E-09	9.047E-10	6.165E-10
W	110	9.440E-08	3.175E-08	9.747E-09	5.657E-09	3.500E-09	1.693E-09	9.388E-10	6.398E-10
WNW	98	7.646E-08	2.571E-08	8.683E-09	4.582E-09	2.835E-09	1.371E-09	9.201E-10	6.270E-10
NW	51	3.979E-08	1.338E-08	4.519E-09	2.385E-09	1.475E-09	7.135E-10	4.353E-10	2.966E-10
NNW	77	6.008E-08	2.020E-08	6.823E-09	3.600E-09	2.227E-09	1.077E-09	6.572E-10	4.478E-10
AVERAGE	2168	1.092E-07	3.673E-08	1.208E-08	6.387E-09	3.952E-09	1.911E-09	1.162E-09	7.916E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	221	9.405E-10	7.194E-10	5.688E-10	4.571E-10	3.771E-10	1.891E-10	1.163E-10	5.737E-11
NNE	363	1.545E-09	1.182E-09	9.343E-10	7.508E-10	6.195E-10	3.106E-10	1.910E-10	9.423E-11
NE	317	1.349E-09	1.032E-09	8.159E-10	6.557E-10	5.410E-10	2.712E-10	1.668E-10	8.229E-11
ENE	169	7.192E-10	5.501E-10	4.350E-10	3.496E-10	2.884E-10	1.446E-10	8.892E-11	4.387E-11
E	114	4.851E-10	3.711E-10	2.934E-10	2.358E-10	1.945E-10	9.754E-11	5.998E-11	2.959E-11
ESE	65	2.766E-10	2.116E-10	1.673E-10	1.344E-10	1.109E-10	5.562E-11	3.420E-11	1.687E-11
SE	66	2.809E-10	2.148E-10	1.869E-10	1.502E-10	1.239E-10	6.212E-11	3.820E-11	1.885E-11
SSE	63	2.681E-10	2.051E-10	1.622E-10	1.303E-10	1.075E-10	5.391E-11	3.315E-11	1.635E-11
S	89	3.788E-10	2.897E-10	2.291E-10	1.841E-10	1.519E-10	7.615E-11	4.683E-11	2.310E-11
SSW	147	6.256E-10	4.785E-10	3.784E-10	3.040E-10	2.509E-10	1.258E-10	7.734E-11	3.816E-11
SW	112	4.766E-10	3.646E-10	2.883E-10	2.317E-10	1.911E-10	9.583E-11	5.893E-11	2.907E-11
WSW	106	4.511E-10	3.450E-10	3.001E-10	2.412E-10	1.990E-10	9.070E-11	5.577E-11	2.752E-11
W	110	4.681E-10	3.581E-10	2.831E-10	2.275E-10	1.877E-10	9.412E-11	5.788E-11	2.856E-11
WNW	98	4.588E-10	3.509E-10	2.522E-10	2.027E-10	1.672E-10	8.385E-11	5.156E-11	2.544E-11
NW	51	2.170E-10	1.660E-10	1.313E-10	1.055E-10	8.703E-11	4.364E-11	2.683E-11	1.324E-11
NNW	77	3.277E-10	2.506E-10	1.982E-10	1.593E-10	1.314E-10	6.588E-11	4.051E-11	1.999E-11
AVERAGE	2168	5.792E-10	4.431E-10	3.515E-10	2.825E-10	2.331E-10	1.163E-10	7.151E-11	3.528E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	221	3.526E-11	2.374E-11	1.673E-11	1.254E-11	9.757E-12	7.980E-12	6.626E-12	
NNE	363	5.792E-11	3.900E-11	2.748E-11	2.060E-11	1.603E-11	1.311E-11	1.088E-11	
NE	317	5.058E-11	3.405E-11	2.399E-11	1.799E-11	1.400E-11	1.145E-11	9.504E-12	
ENE	169	2.697E-11	1.815E-11	1.279E-11	9.592E-12	7.461E-12	6.102E-12	5.067E-12	
E	114	1.819E-11	1.225E-11	8.629E-12	6.470E-12	5.033E-12	4.116E-12	3.418E-12	
ESE	65	1.037E-11	6.983E-12	4.920E-12	3.689E-12	2.870E-12	2.347E-12	1.949E-12	
SE	66	1.158E-11	7.799E-12	5.495E-12	4.120E-12	3.205E-12	2.621E-12	2.177E-12	
SSE	63	1.005E-11	6.768E-12	4.769E-12	3.576E-12	2.781E-12	2.275E-12	1.889E-12	
S	89	1.420E-11	9.561E-12	6.737E-12	5.051E-12	3.929E-12	3.214E-12	2.668E-12	
SSW	147	2.346E-11	1.579E-11	1.113E-11	8.343E-12	6.490E-12	5.308E-12	4.407E-12	
SW	112	1.787E-11	1.203E-11	8.478E-12	6.357E-12	4.945E-12	4.044E-12	3.358E-12	
WSW	106	1.691E-11	1.139E-11	8.023E-12	6.016E-12	4.680E-12	3.827E-12	3.178E-12	
W	110	1.755E-11	1.182E-11	8.326E-12	6.243E-12	4.856E-12	3.972E-12	3.298E-12	
WNW	98	1.564E-11	1.053E-11	7.418E-12	5.562E-12	4.327E-12	3.538E-12	2.938E-12	
NW	51	8.137E-12	5.479E-12	3.860E-12	2.895E-12	2.252E-12	1.841E-12	1.529E-12	
NNW	77	1.229E-11	8.272E-12	5.828E-12	4.370E-12	3.400E-12	2.780E-12	2.309E-12	
AVERAGE	2168	2.169E-11	1.460E-11	1.029E-11	7.714E-12	6.001E-12	4.907E-12	4.075E-12	

Table B-8
Deposition D/Q Factors for Reactor Building Vent

PILGRIM 4TH QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	90	6.945E-08	2.336E-08	7.887E-09	4.162E-09	2.575E-09	1.245E-09	7.597E-10	5.177E-10
NNE	173	1.335E-07	4.489E-08	1.516E-08	8.000E-09	4.950E-09	2.394E-09	1.460E-09	9.951E-10
NE	239	1.844E-07	6.202E-08	2.094E-08	1.105E-08	6.838E-09	3.307E-09	2.017E-09	1.375E-09
ENE	368	2.840E-07	9.550E-08	3.225E-08	1.702E-08	1.053E-08	5.092E-09	3.106E-09	2.117E-09
E	295	2.276E-07	7.655E-08	2.585E-08	1.364E-08	8.440E-09	4.082E-09	2.490E-09	1.697E-09
ESE	196	1.512E-07	5.086E-08	1.718E-08	9.064E-09	5.608E-09	2.712E-09	1.655E-09	1.127E-09
SE	168	1.296E-07	4.360E-08	1.472E-08	7.769E-09	4.807E-09	2.324E-09	1.418E-09	9.664E-10
SSE	98	7.562E-08	2.543E-08	8.588E-09	4.532E-09	2.804E-09	1.356E-09	8.273E-10	5.637E-10
S	136	1.154E-07	3.882E-08	1.192E-08	6.289E-09	3.891E-09	1.882E-09	1.148E-09	7.823E-10
SSW	77	6.536E-08	2.198E-08	6.748E-09	3.561E-09	2.203E-09	1.065E-09	6.500E-10	4.429E-10
SW	69	5.857E-08	1.970E-08	6.047E-09	3.191E-09	1.974E-09	9.547E-10	5.825E-10	3.969E-10
WSW	39	3.310E-08	1.113E-08	3.418E-09	1.804E-09	1.116E-09	5.396E-10	3.292E-10	2.243E-10
W	57	4.838E-08	1.627E-08	4.995E-09	2.899E-09	1.794E-09	8.675E-10	4.812E-10	3.279E-10
WNW	66	5.093E-08	1.713E-08	5.784E-09	3.052E-09	1.888E-09	9.132E-10	6.128E-10	4.176E-10
NW	59	4.553E-08	1.531E-08	5.170E-09	2.728E-09	1.688E-09	8.163E-10	4.980E-10	3.394E-10
NNW	62	4.784E-08	1.609E-08	5.433E-09	2.867E-09	1.774E-09	8.578E-10	5.234E-10	3.566E-10
AVERAGE	2192	1.075E-07	3.616E-08	1.201E-08	6.352E-09	3.930E-09	1.900E-09	1.160E-09	7.904E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	90	3.788E-10	2.898E-10	2.291E-10	1.841E-10	1.519E-10	7.616E-11	4.683E-11	2.311E-11
NNE	173	7.282E-10	5.570E-10	4.404E-10	3.539E-10	2.920E-10	1.464E-10	9.003E-11	4.442E-11
NE	239	1.006E-09	7.695E-10	6.084E-10	4.889E-10	4.034E-10	2.023E-10	1.244E-10	6.136E-11
ENE	368	1.549E-09	1.185E-09	9.368E-10	7.528E-10	6.211E-10	3.114E-10	1.915E-10	9.449E-11
E	295	1.242E-09	9.497E-10	7.510E-10	6.035E-10	4.979E-10	2.496E-10	1.535E-10	7.574E-11
ESE	196	8.250E-10	6.310E-10	4.990E-10	4.010E-10	3.308E-10	1.659E-10	1.020E-10	5.032E-11
SE	168	7.071E-10	5.409E-10	4.704E-10	3.780E-10	3.119E-10	1.422E-10	8.742E-11	4.313E-11
SSE	98	4.125E-10	3.155E-10	2.495E-10	2.005E-10	1.654E-10	8.293E-11	5.100E-11	2.516E-11
S	136	5.724E-10	4.378E-10	3.462E-10	2.782E-10	2.295E-10	1.151E-10	7.077E-11	3.492E-11
SSW	77	3.241E-10	2.479E-10	1.960E-10	1.575E-10	1.300E-10	6.516E-11	4.007E-11	1.977E-11
SW	69	2.904E-10	2.221E-10	1.757E-10	1.412E-10	1.165E-10	5.839E-11	3.591E-11	1.772E-11
WSW	39	1.642E-10	1.256E-10	1.092E-10	8.776E-11	7.241E-11	3.300E-11	2.030E-11	1.001E-11
W	57	2.399E-10	1.835E-10	1.451E-10	1.166E-10	9.621E-11	4.824E-11	2.966E-11	1.464E-11
WNW	66	3.056E-10	2.337E-10	1.680E-10	1.350E-10	1.114E-10	5.585E-11	3.435E-11	1.695E-11
NW	59	2.483E-10	1.899E-10	1.502E-10	1.207E-10	9.958E-11	4.993E-11	3.070E-11	1.515E-11
NNW	62	2.610E-10	1.996E-10	1.578E-10	1.268E-10	1.046E-10	5.247E-11	3.226E-11	1.592E-11
AVERAGE	2192	5.784E-10	4.424E-10	3.521E-10	2.829E-10	2.334E-10	1.159E-10	7.129E-11	3.518E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	90	1.420E-11	9.562E-12	6.738E-12	5.052E-12	3.930E-12	3.214E-12	2.669E-12
NNE	173	2.730E-11	1.838E-11	1.295E-11	9.711E-12	7.554E-12	6.178E-12	5.130E-12
NE	239	3.772E-11	2.539E-11	1.789E-11	1.342E-11	1.044E-11	8.535E-12	7.087E-12
ENE	368	5.807E-11	3.910E-11	2.755E-11	2.066E-11	1.607E-11	1.314E-11	1.091E-11
E	295	4.655E-11	3.134E-11	2.208E-11	1.656E-11	1.288E-11	1.053E-11	8.748E-12
ESE	196	3.093E-11	2.082E-11	1.467E-11	1.100E-11	8.559E-12	6.999E-12	5.812E-12
SE	168	2.651E-11	1.785E-11	1.258E-11	9.431E-12	7.336E-12	6.000E-12	4.982E-12
SSE	98	1.547E-11	1.041E-11	7.337E-12	5.501E-12	4.279E-12	3.500E-12	2.906E-12
S	136	2.146E-11	1.445E-11	1.018E-11	7.634E-12	5.939E-12	4.857E-12	4.033E-12
SSW	77	1.215E-11	8.181E-12	5.764E-12	4.322E-12	3.362E-12	2.750E-12	2.283E-12
SW	69	1.089E-11	7.331E-12	5.166E-12	3.873E-12	3.013E-12	2.464E-12	2.046E-12
WSW	39	6.155E-12	4.144E-12	2.920E-12	2.189E-12	1.703E-12	1.393E-12	1.156E-12
W	57	8.995E-12	6.056E-12	4.267E-12	3.200E-12	2.489E-12	2.036E-12	1.690E-12
WNW	66	1.042E-11	7.012E-12	4.941E-12	3.705E-12	2.882E-12	2.357E-12	1.957E-12
NW	59	9.311E-12	6.269E-12	4.417E-12	3.312E-12	2.576E-12	2.107E-12	1.750E-12
NNW	62	9.784E-12	6.587E-12	4.642E-12	3.480E-12	2.707E-12	2.214E-12	1.838E-12
AVERAGE	2192	2.162E-11	1.456E-11	1.026E-11	7.690E-12	5.982E-12	4.892E-12	4.062E-12

Table B-8
Deposition D/Q Factors for Reactor Building Vent

PILGRIM 2000 ANNUAL GENERAL I/Q'S- GROUND LEVEL -- SECTOR AVERAGE MODEL
GROUND RELEASE
AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	575	1.206E-07	4.054E-08	1.369E-08	7.224E-09	4.470E-09	2.161E-09	1.319E-09	8.986E-10
NNE	1146	2.403E-07	8.080E-08	2.729E-08	1.440E-08	8.908E-09	4.308E-09	2.628E-09	1.791E-09
NE	898	1.883E-07	6.331E-08	2.138E-08	1.128E-08	6.981E-09	3.376E-09	2.060E-09	1.403E-09
ENE	814	1.707E-07	5.739E-08	1.938E-08	1.023E-08	6.328E-09	3.060E-09	1.867E-09	1.272E-09
E	773	1.621E-07	5.450E-08	1.840E-08	9.712E-09	6.009E-09	2.906E-09	1.773E-09	1.208E-09
ESE	542	1.136E-07	3.821E-08	1.290E-08	6.810E-09	4.213E-09	2.037E-09	1.243E-09	8.471E-10
SE	452	9.476E-08	3.187E-08	1.076E-08	5.679E-09	3.514E-09	1.699E-09	1.037E-09	7.064E-10
SSE	261	5.472E-08	1.840E-08	6.214E-09	3.279E-09	2.029E-09	9.811E-10	5.986E-10	4.079E-10
S	369	8.510E-08	2.862E-08	8.786E-09	4.636E-09	2.868E-09	1.387E-09	8.463E-10	5.767E-10
SSW	447	1.031E-07	3.467E-08	1.064E-08	5.616E-09	3.475E-09	1.680E-09	1.025E-09	6.986E-10
SW	391	9.017E-08	3.032E-08	9.310E-09	4.913E-09	3.039E-09	1.470E-09	8.967E-10	6.111E-10
WSW	344	7.933E-08	2.668E-08	8.191E-09	4.322E-09	2.674E-09	1.293E-09	7.889E-10	5.376E-10
W	362	8.348E-08	2.807E-08	8.619E-09	5.003E-09	3.095E-09	1.497E-09	8.302E-10	5.657E-10
WNW	258	5.409E-08	1.819E-08	6.143E-09	3.242E-09	2.006E-09	9.699E-10	6.509E-10	4.435E-10
NW	206	4.319E-08	1.452E-08	4.905E-09	2.588E-09	1.601E-09	7.744E-10	4.724E-10	3.219E-10
NNW	230	4.822E-08	1.622E-08	5.476E-09	2.890E-09	1.788E-09	8.646E-10	5.275E-10	3.595E-10
AVERAGE	8068	1.082E-07	3.639E-08	1.201E-08	6.364E-09	3.937E-09	1.904E-09	1.160E-09	7.906E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	575	6.575E-10	5.030E-10	3.977E-10	3.196E-10	2.637E-10	1.322E-10	8.130E-11	4.011E-11
NNE	1146	1.311E-09	1.002E-09	7.926E-10	6.369E-10	5.255E-10	2.635E-10	1.620E-10	7.994E-11
NE	898	1.027E-09	7.855E-10	6.211E-10	4.991E-10	4.118E-10	2.065E-10	1.270E-10	6.264E-11
ENE	814	9.309E-10	7.120E-10	5.630E-10	4.524E-10	3.733E-10	1.872E-10	1.151E-10	5.678E-11
E	773	8.840E-10	6.761E-10	5.346E-10	4.296E-10	3.545E-10	1.777E-10	1.093E-10	5.392E-11
ESE	542	6.198E-10	4.741E-10	3.749E-10	3.012E-10	2.485E-10	1.246E-10	7.663E-11	3.781E-11
SE	452	5.169E-10	3.954E-10	3.439E-10	2.763E-10	2.280E-10	1.039E-10	6.391E-11	3.153E-11
SSE	261	2.985E-10	2.283E-10	1.805E-10	1.451E-10	1.197E-10	6.001E-11	3.690E-11	1.821E-11
S	369	4.220E-10	3.228E-10	2.552E-10	2.051E-10	1.692E-10	8.484E-11	5.217E-11	2.574E-11
SSW	447	5.112E-10	3.910E-10	3.092E-10	2.484E-10	2.050E-10	1.028E-10	6.320E-11	3.118E-11
SW	391	4.471E-10	3.420E-10	2.704E-10	2.173E-10	1.793E-10	8.990E-11	5.528E-11	2.728E-11
WSW	344	3.934E-10	3.009E-10	2.617E-10	2.103E-10	1.735E-10	7.909E-11	4.864E-11	2.400E-11
W	362	4.140E-10	3.166E-10	2.504E-10	2.012E-10	1.660E-10	8.323E-11	5.118E-11	2.525E-11
WNW	258	3.245E-10	2.482E-10	1.784E-10	1.434E-10	1.183E-10	5.932E-11	3.648E-11	1.800E-11
NW	206	2.356E-10	1.802E-10	1.425E-10	1.145E-10	9.447E-11	4.736E-11	2.913E-11	1.437E-11
NNW	230	2.630E-10	2.012E-10	1.591E-10	1.278E-10	1.055E-10	5.288E-11	3.252E-11	1.604E-11
AVERAGE	8068	5.785E-10	4.425E-10	3.522E-10	2.830E-10	2.335E-10	1.159E-10	7.129E-11	3.518E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	575	2.465E-11	1.660E-11	1.170E-11	8.769E-12	6.822E-12	5.579E-12	4.632E-12	
NNE	1146	4.914E-11	3.308E-11	2.331E-11	1.748E-11	1.360E-11	1.112E-11	9.233E-12	
NE	898	3.850E-11	2.592E-11	1.827E-11	1.370E-11	1.065E-11	8.713E-12	7.235E-12	
ENE	814	3.490E-11	2.350E-11	1.656E-11	1.241E-11	9.657E-12	7.898E-12	6.558E-12	
E	773	3.314E-11	2.231E-11	1.572E-11	1.179E-11	9.171E-12	7.500E-12	6.228E-12	
ESE	542	2.324E-11	1.565E-11	1.102E-11	8.266E-12	6.430E-12	5.259E-12	4.367E-12	
SE	452	1.938E-11	1.305E-11	9.194E-12	6.894E-12	5.362E-12	4.386E-12	3.641E-12	
SSE	261	1.119E-11	7.534E-12	5.309E-12	3.981E-12	3.096E-12	2.532E-12	2.103E-12	
S	369	1.582E-11	1.065E-11	7.505E-12	5.628E-12	4.378E-12	3.580E-12	2.973E-12	
SSW	447	1.917E-11	1.290E-11	9.092E-12	6.817E-12	5.303E-12	4.337E-12	3.601E-12	
SW	391	1.676E-11	1.129E-11	7.953E-12	5.963E-12	4.639E-12	3.794E-12	3.150E-12	
WSW	344	1.475E-11	9.930E-12	6.997E-12	5.246E-12	4.081E-12	3.338E-12	2.771E-12	
W	362	1.552E-11	1.045E-11	7.363E-12	5.521E-12	4.295E-12	3.512E-12	2.916E-12	
WNW	258	1.106E-11	7.448E-12	5.248E-12	3.935E-12	3.061E-12	2.503E-12	2.079E-12	
NW	206	8.832E-12	5.947E-12	4.190E-12	3.142E-12	2.444E-12	1.999E-12	1.660E-12	
NNW	230	9.861E-12	6.639E-12	4.678E-12	3.508E-12	2.729E-12	2.232E-12	1.853E-12	
AVERAGE	8068	2.162E-11	1.456E-11	1.026E-11	7.690E-12	5.982E-12	4.892E-12	4.062E-12	

Table B-9
Batch Release Factors for Reactor Building Vent

PILGRIM 4TH QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- BATCH RELEASE -- SECTOR AVERAGE MODEL
GROUND RELEASE
GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	3	3.771E-05	1.112E-05	3.693E-06	2.083E-06	1.384E-06	7.631E-07	4.977E-07	3.592E-07
NNE	1	7.414E-06	2.090E-06	7.967E-07	4.448E-07	2.901E-07	1.559E-07	1.006E-07	7.222E-08
NE	5	4.281E-05	1.254E-05	3.818E-06	2.179E-06	1.473E-06	8.326E-07	5.492E-07	3.997E-07
ENE	11	6.424E-05	1.916E-05	6.832E-06	3.766E-06	2.454E-06	1.319E-06	8.506E-07	6.085E-07
E	8	3.149E-05	9.382E-06	3.315E-06	1.782E-06	1.145E-06	6.076E-07	3.924E-07	2.814E-07
ESE	9	6.255E-05	1.810E-05	6.776E-06	3.749E-06	2.437E-06	1.304E-06	8.400E-07	6.012E-07
SE	9	5.582E-05	1.677E-05	6.213E-06	3.405E-06	2.200E-06	1.168E-06	7.490E-07	5.332E-07
SSE	7	4.075E-05	1.138E-05	4.209E-06	2.336E-06	1.528E-06	8.260E-07	5.355E-07	3.858E-07
S	4	1.917E-05	5.276E-06	1.689E-06	9.284E-07	6.104E-07	3.331E-07	2.175E-07	1.578E-07
SSW	1	1.405E-06	3.325E-07	4.587E-08	1.835E-08	1.436E-08	1.023E-08	7.882E-09	6.492E-09
SW	2	1.240E-05	3.656E-06	1.154E-06	6.042E-07	3.791E-07	1.974E-07	1.285E-07	9.311E-08
WSW	2	1.495E-05	4.586E-06	1.556E-06	8.515E-07	5.483E-07	2.895E-07	1.849E-07	1.311E-07
W	1	1.238E-05	3.492E-06	1.210E-06	7.429E-07	4.846E-07	2.605E-07	1.528E-07	1.097E-07
WNW	1	8.000E-06	2.255E-06	8.596E-07	4.799E-07	3.130E-07	1.682E-07	1.194E-07	8.571E-08
NW	1	9.500E-06	2.678E-06	1.021E-06	5.699E-07	3.717E-07	1.998E-07	1.289E-07	9.253E-08
NNW	1	7.070E-06	1.993E-06	7.597E-07	4.241E-07	2.766E-07	1.487E-07	9.596E-08	6.886E-08
AVERAGE	66	2.673E-05	7.800E-06	2.747E-06	1.523E-06	9.944E-07	5.365E-07	3.469E-07	2.492E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	3	2.773E-07	2.231E-07	1.849E-07	1.566E-07	1.351E-07	7.823E-08	5.343E-08	3.125E-08
NNE	1	5.571E-08	4.466E-08	3.684E-08	3.093E-08	2.649E-08	1.489E-08	1.003E-08	5.807E-09
NE	5	3.109E-07	2.518E-07	2.101E-07	1.792E-07	1.556E-07	9.195E-08	6.367E-08	3.789E-08
ENE	11	4.660E-07	3.721E-07	3.065E-07	2.578E-07	2.211E-07	1.252E-07	8.412E-08	4.813E-08
E	8	2.160E-07	1.729E-07	1.426E-07	1.201E-07	1.031E-07	5.851E-08	3.943E-08	2.271E-08
ESE	9	4.617E-07	3.691E-07	3.040E-07	2.551E-07	2.184E-07	1.227E-07	8.231E-08	4.725E-08
SE	9	4.064E-07	3.232E-07	2.917E-07	2.443E-07	2.088E-07	1.061E-07	7.059E-08	3.984E-08
SSE	7	2.987E-07	2.403E-07	1.989E-07	1.675E-07	1.438E-07	8.156E-08	5.527E-08	3.230E-08
S	4	1.229E-07	9.943E-08	8.272E-08	7.006E-08	6.036E-08	3.469E-08	2.373E-08	1.406E-08
SSW	1	5.607E-09	4.943E-09	4.426E-09	4.021E-09	3.623E-09	2.415E-09	1.812E-09	1.208E-09
SW	2	7.235E-08	5.839E-08	4.847E-08	4.096E-08	3.529E-08	2.028E-08	1.388E-08	8.222E-09
WSW	2	9.939E-08	7.872E-08	7.082E-08	5.917E-08	5.047E-08	2.548E-08	1.684E-08	9.377E-09
W	1	8.459E-08	6.781E-08	5.594E-08	4.696E-08	4.022E-08	2.261E-08	1.523E-08	8.818E-09
WNW	1	6.612E-08	5.300E-08	3.974E-08	3.337E-08	2.858E-08	1.607E-08	1.082E-08	6.266E-09
NW	1	7.138E-08	5.722E-08	4.720E-08	3.963E-08	3.394E-08	1.908E-08	1.285E-08	7.440E-09
NNW	1	5.312E-08	4.258E-08	3.512E-08	2.949E-08	2.526E-08	1.420E-08	9.561E-09	5.537E-09
AVERAGE	66	1.918E-07	1.537E-07	1.287E-07	1.084E-07	9.313E-08	5.212E-08	3.522E-08	2.038E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	3	2.144E-08	1.609E-08	1.282E-08	1.058E-08	8.915E-09	7.681E-09	6.713E-09	
NNE	1	3.956E-09	2.955E-09	2.344E-09	1.930E-09	1.626E-09	1.406E-09	1.232E-09	
NE	5	2.625E-08	1.983E-08	1.589E-08	1.317E-08	1.113E-08	9.599E-09	8.399E-09	
ENE	11	3.267E-08	2.434E-08	1.927E-08	1.585E-08	1.332E-08	1.148E-08	1.004E-08	
E	8	1.551E-08	1.162E-08	9.234E-09	7.623E-09	6.435E-09	5.572E-09	4.892E-09	
ESE	9	3.209E-08	2.392E-08	1.894E-08	1.558E-08	1.310E-08	1.132E-08	9.911E-09	
SE	9	2.683E-08	1.988E-08	1.566E-08	1.284E-08	1.076E-08	9.271E-09	8.098E-09	
SSE	7	2.216E-08	1.664E-08	1.325E-08	1.095E-08	9.256E-09	8.025E-09	7.048E-09	
S	4	9.747E-09	7.376E-09	5.908E-09	4.909E-09	4.167E-09	3.625E-09	3.195E-09	
SSW	1	9.058E-10	7.246E-10	6.039E-10	5.184E-10	4.529E-10	4.026E-10	3.623E-10	
SW	2	5.699E-09	4.313E-09	3.455E-09	2.870E-09	2.437E-09	2.120E-09	1.868E-09	
WSW	2	6.266E-09	4.614E-09	3.619E-09	2.953E-09	2.468E-09	2.119E-09	1.846E-09	
W	1	6.008E-09	4.487E-09	3.559E-09	2.931E-09	2.469E-09	2.135E-09	1.870E-09	
WNW	1	4.269E-09	3.188E-09	2.529E-09	2.083E-09	1.754E-09	1.517E-09	1.329E-09	
NW	1	5.069E-09	3.786E-09	3.003E-09	2.473E-09	2.083E-09	1.801E-09	1.578E-09	
NNW	1	3.772E-09	2.818E-09	2.235E-09	1.841E-09	1.550E-09	1.341E-09	1.174E-09	
AVERAGE	66	1.392E-08	1.041E-08	8.270E-09	6.819E-09	5.746E-09	4.964E-09	4.347E-09	

Table B-9
Batch Release Factors for Reactor Building Vent

PILGRIM 4TH QUARTER 2000 GENERAL I/Q'S- GROUND LEVEL -- BATCH RELEASE -- SECTOR AVERAGE MODEL
GROUND RELEASE
GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (REGULATORY GUIDE 1.111 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	3	3.637E-05	1.056E-05	3.376E-06	1.856E-06	1.213E-06	6.506E-07	4.123E-07	2.908E-07
NNE	1	7.150E-06	1.986E-06	7.282E-07	3.963E-07	2.544E-07	1.329E-07	8.336E-08	5.846E-08
NE	5	4.129E-05	1.191E-05	3.490E-06	1.942E-06	1.292E-06	7.098E-07	4.549E-07	3.236E-07
ENE	11	6.195E-05	1.820E-05	6.244E-06	3.356E-06	2.152E-06	1.124E-06	7.046E-07	4.926E-07
E	8	3.037E-05	8.912E-06	3.029E-06	1.588E-06	1.004E-06	5.180E-07	3.251E-07	2.278E-07
ESE	9	6.032E-05	1.719E-05	6.193E-06	3.340E-06	2.136E-06	1.112E-06	6.958E-07	4.867E-07
SE	9	5.383E-05	1.593E-05	5.678E-06	3.034E-06	1.929E-06	9.960E-07	6.204E-07	4.317E-07
SSE	7	3.930E-05	1.081E-05	3.847E-06	2.082E-06	1.340E-06	7.041E-07	4.435E-07	3.123E-07
S	4	1.848E-05	5.012E-06	1.544E-06	8.273E-07	5.352E-07	2.840E-07	1.802E-07	1.277E-07
SSW	1	1.355E-06	3.158E-07	4.192E-08	1.635E-08	1.259E-08	8.717E-09	6.529E-09	5.256E-09
SW	2	1.195E-05	3.472E-06	1.055E-06	5.384E-07	3.324E-07	1.683E-07	1.065E-07	7.538E-08
WSW	2	1.442E-05	4.356E-06	1.422E-06	7.588E-07	4.807E-07	2.468E-07	1.531E-07	1.061E-07
W	1	1.194E-05	3.317E-06	1.106E-06	6.620E-07	4.249E-07	2.220E-07	1.266E-07	8.878E-08
WNW	1	7.715E-06	2.142E-06	7.857E-07	4.276E-07	2.744E-07	1.434E-07	9.893E-08	6.939E-08
NW	1	9.161E-06	2.544E-06	9.330E-07	5.078E-07	3.259E-07	1.703E-07	1.068E-07	7.491E-08
NNW	1	6.818E-06	1.893E-06	6.943E-07	3.779E-07	2.425E-07	1.267E-07	7.948E-08	5.574E-08
AVERAGE	66	2.578E-05	7.409E-06	2.510E-06	1.357E-06	8.718E-07	4.574E-07	2.874E-07	2.017E-07

GROUND-LEVEL AVERAGE CHI/Q AFTER DEPLETION (REGULATORY GUIDE 1.111 DEPLETION MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	3	2.205E-07	1.745E-07	1.426E-07	1.192E-07	1.016E-07	5.527E-08	3.595E-08	1.952E-08
NNE	1	4.430E-08	3.494E-08	2.840E-08	2.354E-08	1.992E-08	1.052E-08	6.746E-09	3.627E-09
NE	5	2.472E-07	1.970E-07	1.620E-07	1.364E-07	1.170E-07	6.497E-08	4.283E-08	2.367E-08
ENE	11	3.705E-07	2.911E-07	2.362E-07	1.962E-07	1.662E-07	8.844E-08	5.659E-08	3.006E-08
E	8	1.718E-07	1.352E-07	1.100E-07	9.145E-08	7.751E-08	4.134E-08	2.653E-08	1.418E-08
ESE	9	3.671E-07	2.888E-07	2.343E-07	1.942E-07	1.642E-07	8.668E-08	5.537E-08	2.952E-08
SE	9	3.232E-07	2.528E-07	2.248E-07	1.860E-07	1.570E-07	7.494E-08	4.749E-08	2.488E-08
SSE	7	2.375E-07	1.880E-07	1.533E-07	1.275E-07	1.081E-07	5.762E-08	3.718E-08	2.018E-08
S	4	9.774E-08	7.779E-08	6.376E-08	5.333E-08	4.539E-08	2.451E-08	1.597E-08	8.784E-09
SSW	1	4.458E-09	3.867E-09	3.412E-09	3.061E-09	2.724E-09	1.707E-09	1.219E-09	7.544E-10
SW	2	5.753E-08	4.568E-08	3.737E-08	3.118E-08	2.653E-08	1.433E-08	9.334E-09	5.136E-09
WSW	2	7.903E-08	6.159E-08	5.459E-08	4.504E-08	3.795E-08	1.800E-08	1.133E-08	5.857E-09
W	1	6.726E-08	5.305E-08	4.312E-08	3.575E-08	3.024E-08	1.598E-08	1.024E-08	5.508E-09
WNW	1	5.257E-08	4.146E-08	3.064E-08	2.540E-08	2.149E-08	1.135E-08	7.279E-09	3.914E-09
NW	1	5.675E-08	4.476E-08	3.638E-08	3.016E-08	2.552E-08	1.348E-08	8.643E-09	4.648E-09
NNW	1	4.224E-08	3.331E-08	2.707E-08	2.245E-08	1.899E-08	1.003E-08	6.432E-09	3.459E-09
AVERAGE	66	1.525E-07	1.202E-07	9.924E-08	8.256E-08	7.002E-08	3.682E-08	2.370E-08	1.273E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	3	1.248E-08	8.835E-09	6.699E-09	5.297E-09	4.292E-09	3.574E-09	3.026E-09
NNE	1	2.303E-09	1.623E-09	1.225E-09	9.664E-10	7.826E-10	6.542E-10	5.552E-10
NE	5	1.528E-08	1.089E-08	8.305E-09	6.593E-09	5.358E-09	4.466E-09	3.786E-09
ENE	11	1.902E-08	1.337E-08	1.007E-08	7.934E-09	6.414E-09	5.344E-09	4.526E-09
E	8	9.031E-09	6.380E-09	4.826E-09	3.816E-09	3.097E-09	2.593E-09	2.205E-09
ESE	9	1.868E-08	1.313E-08	9.895E-09	7.798E-09	6.308E-09	5.268E-09	4.467E-09
SE	9	1.562E-08	1.092E-08	8.186E-09	6.426E-09	5.181E-09	4.314E-09	3.650E-09
SSE	7	1.290E-08	9.138E-09	6.925E-09	5.484E-09	4.456E-09	3.734E-09	3.177E-09
S	4	5.673E-09	4.050E-09	3.087E-09	2.457E-09	2.006E-09	1.687E-09	1.440E-09
SSW	1	5.272E-10	3.979E-10	3.156E-10	2.595E-10	2.180E-10	1.873E-10	1.633E-10
SW	2	3.317E-09	2.368E-09	1.805E-09	1.437E-09	1.173E-09	9.864E-10	8.422E-10
WSW	2	3.647E-09	2.534E-09	1.891E-09	1.479E-09	1.188E-09	9.859E-10	8.320E-10
W	1	3.497E-09	2.464E-09	1.860E-09	1.467E-09	1.188E-09	9.934E-10	8.430E-10
WNW	1	2.485E-09	1.751E-09	1.321E-09	1.043E-09	8.444E-10	7.058E-10	5.990E-10
NW	1	2.951E-09	2.079E-09	1.569E-09	1.238E-09	1.003E-09	8.382E-10	7.113E-10
NNW	1	2.196E-09	1.547E-09	1.168E-09	9.214E-10	7.462E-10	6.238E-10	5.293E-10
AVERAGE	66	8.101E-09	5.717E-09	4.322E-09	3.414E-09	2.766E-09	2.310E-09	1.960E-09

Table B-9
Batch Release Factors for Reactor Building Vent

PILGRIM 4TH QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- BATCH RELEASE

GROUND RELEASE

AVERAGE GAMMA DILUTION FACTORS (MET. AND ATOMIC ENERGY 1968 FINITE CLOUD SECTOR AVERAGE MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	3	5.942E-06	2.561E-06	1.130E-06	7.084E-07	5.065E-07	3.118E-07	2.199E-07	1.677E-07
NNE	1	1.350E-06	5.695E-07	2.594E-07	1.620E-07	1.151E-07	7.006E-08	4.910E-08	3.731E-08
NE	5	6.312E-06	2.681E-06	1.113E-06	6.871E-07	4.961E-07	3.104E-07	2.211E-07	1.700E-07
ENE	11	1.301E-05	5.475E-06	2.350E-06	1.422E-06	1.006E-06	6.094E-07	4.254E-07	3.216E-07
E	8	7.707E-06	3.151E-06	1.264E-06	7.229E-07	5.014E-07	2.966E-07	2.048E-07	1.546E-07
ESE	9	1.247E-05	5.229E-06	2.303E-06	1.409E-06	9.976E-07	6.047E-07	4.225E-07	3.199E-07
SE	9	1.179E-05	4.988E-06	2.182E-06	1.326E-06	9.348E-07	5.629E-07	3.914E-07	2.949E-07
SSE	7	8.483E-06	3.451E-06	1.447E-06	8.615E-07	6.121E-07	3.737E-07	2.625E-07	1.998E-07
S	4	4.749E-06	1.852E-06	6.329E-07	3.497E-07	2.487E-07	1.524E-07	1.074E-07	8.199E-08
SSW	1	8.844E-07	2.977E-07	5.632E-08	1.242E-08	8.981E-09	5.986E-09	4.489E-09	3.592E-09
SW	2	2.891E-06	1.204E-06	4.486E-07	2.560E-07	1.695E-07	9.424E-08	6.320E-08	4.793E-08
WSW	2	3.074E-06	1.325E-06	5.425E-07	3.348E-07	2.356E-07	1.413E-07	9.800E-08	7.364E-08
W	1	2.255E-06	9.513E-07	3.939E-07	2.706E-07	1.922E-07	1.170E-07	7.456E-08	5.665E-08
WNW	1	1.457E-06	6.145E-07	2.799E-07	1.748E-07	1.241E-07	7.559E-08	5.828E-08	4.428E-08
NW	1	1.730E-06	7.297E-07	3.323E-07	2.076E-07	1.474E-07	8.977E-08	6.291E-08	4.780E-08
NNW	1	1.287E-06	5.430E-07	2.473E-07	1.545E-07	1.097E-07	6.680E-08	4.682E-08	3.557E-08
AVERAGE	66	5.337E-06	2.226E-06	9.364E-07	5.662E-07	4.004E-07	2.427E-07	1.695E-07	1.286E-07

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	3	1.347E-07	1.118E-07	9.515E-08	8.243E-08	7.252E-08	4.466E-08	3.170E-08	1.950E-08
NNE	1	2.993E-08	2.480E-08	2.104E-08	1.814E-08	1.590E-08	9.620E-09	6.765E-09	4.129E-09
NE	5	1.375E-07	1.149E-07	9.836E-08	8.573E-08	7.584E-08	4.763E-08	3.429E-08	2.152E-08
ENE	11	2.561E-07	2.110E-07	1.784E-07	1.536E-07	1.343E-07	8.099E-08	5.650E-08	3.383E-08
E	8	1.231E-07	1.015E-07	8.576E-08	7.379E-08	6.453E-08	3.886E-08	2.709E-08	1.622E-08
ESE	9	2.555E-07	2.110E-07	1.786E-07	1.537E-07	1.345E-07	8.099E-08	5.661E-08	3.414E-08
SE	9	2.340E-07	1.923E-07	1.784E-07	1.531E-07	1.336E-07	7.257E-08	5.025E-08	2.974E-08
SSE	7	1.605E-07	1.331E-07	1.131E-07	9.761E-08	8.560E-08	5.201E-08	3.668E-08	2.248E-08
S	4	6.600E-08	5.485E-08	4.668E-08	4.037E-08	3.547E-08	2.168E-08	1.536E-08	9.477E-09
SSW	1	2.993E-09	2.565E-09	2.245E-09	1.995E-09	1.796E-09	1.197E-09	8.979E-10	5.986E-10
SW	2	3.858E-08	3.206E-08	2.729E-08	2.360E-08	2.073E-08	1.268E-08	8.979E-09	5.540E-09
WSW	2	5.826E-08	4.775E-08	4.419E-08	3.787E-08	3.299E-08	1.783E-08	1.228E-08	7.190E-09
W	1	4.545E-08	3.765E-08	3.195E-08	2.755E-08	2.414E-08	1.461E-08	1.027E-08	6.270E-09
WNW	1	3.552E-08	2.943E-08	2.270E-08	1.958E-08	1.715E-08	1.038E-08	7.299E-09	4.455E-09
NW	1	3.835E-08	3.177E-08	2.696E-08	2.325E-08	2.037E-08	1.233E-08	8.667E-09	5.290E-09
NNW	1	2.854E-08	2.364E-08	2.006E-08	1.730E-08	1.516E-08	9.172E-09	6.450E-09	3.937E-09
AVERAGE	66	1.028E-07	8.500E-08	7.317E-08	6.310E-08	5.529E-08	3.295E-08	2.313E-08	1.402E-08

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	3	1.383E-08	1.061E-08	8.586E-09	7.181E-09	6.124E-09	5.333E-09	4.707E-09	
NNE	1	2.908E-09	2.221E-09	1.789E-09	1.492E-09	1.270E-09	1.107E-09	9.775E-10	
NE	5	1.545E-08	1.197E-08	9.752E-09	8.202E-09	7.027E-09	6.136E-09	5.431E-09	
ENE	11	2.361E-08	1.791E-08	1.435E-08	1.192E-08	1.010E-08	8.761E-09	7.701E-09	
E	8	1.132E-08	8.595E-09	6.889E-09	5.723E-09	4.854E-09	4.215E-09	3.710E-09	
ESE	9	2.389E-08	1.817E-08	1.458E-08	1.212E-08	1.029E-08	8.948E-09	7.881E-09	
SE	9	2.060E-08	1.554E-08	1.240E-08	1.025E-08	8.663E-09	7.498E-09	6.578E-09	
SSE	7	1.589E-08	1.216E-08	9.817E-09	8.202E-09	6.993E-09	6.102E-09	5.393E-09	
S	4	6.730E-09	5.173E-09	4.187E-09	3.507E-09	2.997E-09	2.620E-09	2.319E-09	
SSW	1	4.489E-10	3.592E-10	2.993E-10	2.570E-10	2.245E-10	1.995E-10	1.796E-10	
SW	2	3.934E-09	3.024E-09	2.448E-09	2.050E-09	1.752E-09	1.532E-09	1.356E-09	
WSW	2	4.947E-09	3.713E-09	2.950E-09	2.432E-09	2.048E-09	1.768E-09	1.546E-09	
W	1	4.416E-09	3.373E-09	2.717E-09	2.266E-09	1.929E-09	1.682E-09	1.484E-09	
WNW	1	3.138E-09	2.397E-09	1.931E-09	1.610E-09	1.371E-09	1.195E-09	1.055E-09	
NW	1	3.726E-09	2.846E-09	2.293E-09	1.912E-09	1.628E-09	1.419E-09	1.252E-09	
NNW	1	2.773E-09	2.118E-09	1.706E-09	1.423E-09	1.211E-09	1.056E-09	9.320E-10	
AVERAGE	66	9.851E-09	7.511E-09	6.043E-09	5.034E-09	4.280E-09	3.723E-09	3.281E-09	

Table B-9
Batch Release Factors for Reactor Building Vent

PILGRIM 4TH QUARTER 2000 GENERAL X/Q'S- GROUND LEVEL -- BATCH RELEASE -- SECTOR AVERAGE MODEL
GROUND RELEASE
AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	3	7.689E-08	2.586E-08	8.732E-09	4.608E-09	2.851E-09	1.379E-09	8.411E-10	5.731E-10
NNE	1	2.563E-08	8.619E-09	2.911E-09	1.536E-09	9.503E-10	4.595E-10	2.804E-10	1.910E-10
NE	5	1.281E-07	4.309E-08	1.455E-08	7.679E-09	4.751E-09	2.298E-09	1.402E-09	9.552E-10
ENE	11	2.819E-07	9.480E-08	3.202E-08	1.689E-08	1.045E-08	5.055E-09	3.084E-09	2.102E-09
E	8	2.050E-07	6.895E-08	2.328E-08	1.229E-08	7.602E-09	3.676E-09	2.243E-09	1.528E-09
ESE	9	2.307E-07	7.757E-08	2.620E-08	1.382E-08	8.552E-09	4.136E-09	2.523E-09	1.719E-09
SE	9	2.307E-07	7.757E-08	2.620E-08	1.382E-08	8.552E-09	4.136E-09	2.523E-09	1.719E-09
SSE	7	1.794E-07	6.033E-08	2.037E-08	1.075E-08	6.652E-09	3.217E-09	1.962E-09	1.337E-09
S	4	1.128E-07	3.792E-08	1.164E-08	6.143E-09	3.801E-09	1.838E-09	1.121E-09	7.642E-10
SSW	1	2.819E-08	9.480E-09	2.911E-09	1.536E-09	9.503E-10	4.595E-10	2.804E-10	1.910E-10
SW	2	5.638E-08	1.896E-08	5.821E-09	3.072E-09	1.901E-09	9.190E-10	5.607E-10	3.821E-10
WSW	2	5.638E-08	1.896E-08	5.821E-09	3.072E-09	1.901E-09	9.190E-10	5.607E-10	3.821E-10
W	1	2.819E-08	9.480E-09	2.911E-09	1.536E-09	9.503E-10	4.595E-10	2.804E-10	1.910E-10
WNW	1	2.563E-08	8.619E-09	2.911E-09	1.536E-09	9.503E-10	4.595E-10	2.804E-10	1.910E-10
NW	1	2.563E-08	8.619E-09	2.911E-09	1.536E-09	9.503E-10	4.595E-10	2.804E-10	1.910E-10
NNW	1	2.563E-08	8.619E-09	2.911E-09	1.536E-09	9.503E-10	4.595E-10	2.804E-10	1.910E-10
AVERAGE	66	1.073E-07	3.609E-08	1.201E-08	6.345E-09	3.926E-09	1.898E-09	1.158E-09	7.893E-10

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	3	4.194E-10	3.208E-10	2.536E-10	2.038E-10	1.682E-10	8.432E-11	5.185E-11	2.558E-11
NNE	1	1.398E-10	1.069E-10	8.455E-11	6.794E-11	5.606E-11	2.811E-11	1.728E-11	8.527E-12
NE	5	6.990E-10	5.346E-10	4.227E-10	3.397E-10	2.803E-10	1.405E-10	8.642E-11	4.264E-11
ENE	11	1.538E-09	1.176E-09	9.300E-10	7.474E-10	6.166E-10	3.092E-10	1.901E-10	9.380E-11
E	8	1.118E-09	8.554E-10	6.764E-10	5.435E-10	4.485E-10	2.249E-10	1.383E-10	6.822E-11
ESE	9	1.258E-09	9.623E-10	7.609E-10	6.115E-10	5.045E-10	2.530E-10	1.555E-10	7.675E-11
SE	9	1.258E-09	9.623E-10	7.609E-10	6.115E-10	5.045E-10	2.530E-10	1.555E-10	7.675E-11
SSE	7	9.785E-10	7.485E-10	5.918E-10	4.756E-10	3.924E-10	1.967E-10	1.210E-10	5.969E-11
S	4	5.592E-10	4.277E-10	3.382E-10	2.718E-10	2.242E-10	1.124E-10	6.913E-11	3.411E-11
SSW	1	1.398E-10	1.069E-10	8.455E-11	6.794E-11	5.606E-11	2.811E-11	1.728E-11	8.527E-12
SW	2	2.796E-10	2.139E-10	1.691E-10	1.359E-10	1.121E-10	5.621E-11	3.457E-11	1.705E-11
WSW	2	2.796E-10	2.139E-10	1.691E-10	1.359E-10	1.121E-10	5.621E-11	3.457E-11	1.705E-11
W	1	1.398E-10	1.069E-10	8.455E-11	6.794E-11	5.606E-11	2.811E-11	1.728E-11	8.527E-12
WNW	1	1.538E-10	1.176E-10	8.455E-11	6.794E-11	5.606E-11	2.811E-11	1.728E-11	8.527E-12
NW	1	1.398E-10	1.069E-10	8.455E-11	6.794E-11	5.606E-11	2.811E-11	1.728E-11	8.527E-12
NNW	1	1.398E-10	1.069E-10	8.455E-11	6.794E-11	5.606E-11	2.811E-11	1.728E-11	8.527E-12
AVERAGE	66	5.775E-10	4.417E-10	3.546E-10	2.849E-10	2.351E-10	1.159E-10	7.129E-11	3.518E-11

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	3	1.572E-11	1.059E-11	7.459E-12	5.593E-12	4.351E-12	3.558E-12	2.954E-12
NNE	1	5.241E-12	3.529E-12	2.486E-12	1.864E-12	1.450E-12	1.186E-12	9.848E-13
NE	5	2.621E-11	1.764E-11	1.243E-11	9.322E-12	7.251E-12	5.930E-12	4.924E-12
ENE	11	5.765E-11	3.882E-11	2.735E-11	2.051E-11	1.595E-11	1.305E-11	1.083E-11
E	8	4.193E-11	2.823E-11	1.989E-11	1.491E-11	1.160E-11	9.488E-12	7.879E-12
ESE	9	4.717E-11	3.176E-11	2.238E-11	1.678E-11	1.305E-11	1.067E-11	8.863E-12
SE	9	4.717E-11	3.176E-11	2.238E-11	1.678E-11	1.305E-11	1.067E-11	8.863E-12
SSE	7	3.669E-11	2.470E-11	1.740E-11	1.305E-11	1.015E-11	8.302E-12	6.894E-12
S	4	2.097E-11	1.412E-11	9.946E-12	7.457E-12	5.801E-12	4.744E-12	3.939E-12
SSW	1	5.241E-12	3.529E-12	2.486E-12	1.864E-12	1.450E-12	1.186E-12	9.848E-13
SW	2	1.048E-11	7.058E-12	4.973E-12	3.729E-12	2.901E-12	2.372E-12	1.970E-12
WSW	2	1.048E-11	7.058E-12	4.973E-12	3.729E-12	2.901E-12	2.372E-12	1.970E-12
W	1	5.241E-12	3.529E-12	2.486E-12	1.864E-12	1.450E-12	1.186E-12	9.848E-13
WNW	1	5.241E-12	3.529E-12	2.486E-12	1.864E-12	1.450E-12	1.186E-12	9.848E-13
NW	1	5.241E-12	3.529E-12	2.486E-12	1.864E-12	1.450E-12	1.186E-12	9.848E-13
NNW	1	5.241E-12	3.529E-12	2.486E-12	1.864E-12	1.450E-12	1.186E-12	9.848E-13
AVERAGE	66	2.162E-11	1.456E-11	1.026E-11	7.690E-12	5.982E-12	4.892E-12	4.062E-12

APPENDIX C

**PILGRIM NUCLEAR POWER STATION
OFFSITE DOSE CALCULATION MANUAL**

The PNPS Offsite Dose Calculation Manual (ODCM) was not revised during calendar year 2000.

APPENDIX D

CORRECTIONS TO 1999 GASEOUS EFFLUENT DATA

During review of several years of past analytical results for strontium-89 (Sr-89) and strontium-90 (Sr-90) releases in gaseous effluents, an error was identified in the results provided for the fourth quarter of 1999. The error involved an incorrect sample collection time used for decay-correcting the analytical results, resulting in an 86% increase in the activity value for Sr-89. Since no Sr-90 was detected during the period, there was no impact on the results for this nuclide. No other nuclides were affected by this error.

An analysis was performed to assess the impact of the erroneous Sr-89 value used in previous dose assessments. Since Sr-89 accounted for only a minor portion of the total activity in gaseous effluent during the period, its contribution to the maximum organ dose was less than 1% of the value of 1.01E-01 mrem reported for the fourth quarter of 1999.

Revised tables showing the updated values for gaseous effluent releases are attached. A vertical bar in the right margin of each page indicates the updated section.

REVISED Table 2.2-A (continued)
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Gaseous Effluents - Summation of All Releases
 July-December 1999

Period: Jul-Sep 1999	Period: Oct-Dec 1999	Estimated Total Error
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A. FISSION AND ACTIVATION GASES

Total Release: Ci	1.99E+02	1.61E+02	±22%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	2.52E+01	2.04E+01	
Percent of Effluent Control Limit	*	*	

B. IODINES

Total Iodine-131 Release: Ci	4.01E-04	2.87E-04	±20%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	5.09E-05	3.64E-05	
Percent of Effluent Control Limit	*	*	

C. PARTICULATES

Total Release: Ci	4.67E-04	2.59E-04	±21%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	5.92E-05	3.28E-05	
Percent of Effluent Control Limit	*	*	
Gross Alpha Radioactivity: Ci	NDA	NDA	

D. TRITIUM

Total Release: Ci	1.07E+01	9.06E+00	±20%
Average Release Rate During Period: $\mu\text{Ci}/\text{sec}$	1.36E+00	1.15E+00	
Percent of Effluent Control Limit	*	*	

Notes for Table 2.2-A:

* Percent of Effluent Control Limit values based on dose assessments are provided in Section 7 of this report.

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

REVISED Table 2.2-B (continued)
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Gaseous Effluents - Elevated Release
 July-December 1999

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 1999	Oct-Dec 1999	Jul-Sep 1999	Oct-Dec 1999

1. FISSION AND ACTIVATION GASES - Ci

Ar-41	7.47E-01	1.36E+00	N/A	N/A
Kr-85m	3.03E+01	2.57E+01	N/A	N/A
Kr-87	3.70E+01	3.29E+01	N/A	N/A
Kr-88	8.04E+01	6.40E+01	N/A	N/A
Xe-131m	NDA	NDA	N/A	N/A
Xe-133	1.98E+01	1.64E+01	N/A	N/A
Xe-135	3.04E+01	2.08E+01	N/A	N/A
Xe-135m	NDA	NDA	N/A	N/A
Xe-138	NDA	NDA	N/A	N/A
Total for period	1.99E+02	1.61E+02	N/A	N/A

2. IODINES - Ci

I-131	3.80E-04	2.21E-04	N/A	N/A
I-133	2.33E-03	1.17E-03	N/A	N/A
Total for period	2.71E-03	1.39E-03	N/A	N/A

3. PARTICULATES - Ci

Cr-51	NDA	NDA	N/A	N/A
Mn-54	2.08E-05	NDA	N/A	N/A
Fe-59	NDA	NDA	N/A	N/A
Co-58	NDA	NDA	N/A	N/A
Co-60	5.14E-06	1.25E-06	N/A	N/A
Zn-65	NDA	NDA	N/A	N/A
Sr-89	1.49E-04	2.38E-05	N/A	N/A
Sr-90	1.56E-06	NDA	N/A	N/A
Cs-134	NDA	NDA	N/A	N/A
Cs-137	4.24E-06	1.21E-06	N/A	N/A
Ba/La-140	1.46E-04	1.39E-04	N/A	N/A
Total for period	3.27E-04	1.65E-04	N/A	N/A

4. TRITIUM - Ci

H-3	2.14E+00	1.42E+00	N/A	N/A
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Notes for Table 2.2-B:

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

REVISED Table 2.2-C
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Ground Level Release
July-December 1999

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 1999	Oct-Dec 1999	Jul-Sep 1999	Oct-Dec 1999

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	2.09E-05	6.55E-05	N/A	N/A
I-133	2.29E-04	4.98E-04	N/A	N/A
Total for period	2.50E-04	5.64E-04	N/A	N/A

3. PARTICULATES - Ci

Cr-51	NDA	NDA	N/A	N/A
Mn-54	4.38E-05	NDA	N/A	N/A
Fe-59	8.22E-06	NDA	N/A	N/A
Co-58	NDA	NDA	N/A	N/A
Co-60	1.61E-05	2.50E-06	N/A	N/A
Zn-65	NDA	NDA	N/A	N/A
Sr-89	6.16E-05	9.10E-05	N/A	N/A
Sr-90	NDA	NDA	N/A	N/A
Cs-134	NDA	NDA	N/A	N/A
Cs-137	1.55E-06	NDA	N/A	N/A
Ba/La-140	9.17E-06	NDA	N/A	N/A
Total for period	1.40E-04	9.35E-05	N/A	N/A

4. TRITIUM - Ci

H-3	8.56E+00	7.64E+00	N/A	N/A
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Notes for Table 2.2-C:

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 $\mu\text{Ci/cc}$