

PILGRIM NUCLEAR POWER STATION

Facility Operating License DPR-35

**Radiological Effluent and
Waste Disposal Report**

January 1 through December 31, 2001





**PILGRIM NUCLEAR POWER STATION
Facility Operating License DPR-35**

RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT

JANUARY 01 THROUGH DECEMBER 31, 2001

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Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
January-December 2001

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EXECUTIVE SUMMARY

PILGRIM NUCLEAR POWER STATION RADIOACTIVE EFFLUENT AND WASTE DISPOSAL REPORT INCLUDING METEOROLOGICAL DATA JANUARY 01 THROUGH DECEMBER 31, 2001

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, 2001. This document has been prepared in accordance with the requirements set forth in the Pilgrim Nuclear Power Station (PNPS) Technical Specifications and Revision 1 of Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Material in Liquid and Gaseous Effluents from Light Water Cooled Nuclear Power Plants".

The quantity of radioactive material released from PNPS was determined from sample analyses and continuous on-line monitoring of gaseous releases from the main stack, reactor building vent, turbine building, and various decontamination facilities, and liquid releases into the discharge canal.

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 167 Curies. Releases of radioactive particulates and iodines totaled 0.016 Curies, and tritium releases totaled 260 Curies. No gross alpha radioactivity was detected in gaseous effluents.

Noble gases released in gaseous effluents resulted in a maximum total body dose of 0.067 mrem, with a corresponding skin dose of 0.69 mrem. The release of radioactivity in gaseous effluents from PNPS during 2001 resulted in a total body dose to the maximum-exposed hypothetical individual of about 1.2 mrem from radioactive particulates, iodines, and tritium. The maximum hypothetical dose to any organ from radioactive particulates, iodines, and tritium was about 1.5 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 1.5 mrem.

The maximum individual doses from gaseous radioactive effluents were compared to the applicable ODCM dose limits. Noble gas doses were less than 3.7% of the corresponding 10CFR50 dose objectives. Maximum doses resulting from releases of particulates, iodines, and tritium in gaseous effluents were less than 9.8% of corresponding 10CFR50 objectives.

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 0.01 Curies of fission and activation products, and 20.4 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 2001 resulted in a total body dose of about 0.00051 mrem to the maximum-exposed hypothetical individual. The maximum hypothetical dose to any organ from liquid effluents was about 0.0015 mrem.

The maximum individual doses from liquid radioactive effluents were compared to the applicable ODCM dose limits. All doses from liquid effluents were less than 0.03% of their corresponding effluent control limit. In addition, all quarterly average concentrations of radioactivity in liquids released to Cape Cod Bay were less than 2% of the corresponding limits.

METEOROLOGICAL DATA

Meteorological joint frequency distributions are listed in Appendix A. The data recovery for the annual reporting period was 96%. The predominant wind direction was from the south-southwest, which occurred approximately 16% of the time during the reporting period. The predominant stability class was Class E, which occurred about 35% 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 elevation in ambient radiation exposure on Entergy property in close proximity to the station, when compared to background levels in the region. This elevation is due to nitrogen-16 contained within the plant steam system, as opposed to radioactive effluent released from the plant. The dose to a hypothetical member of the public accessing such areas on Entergy property during 2001 was estimated as being about 2.2 mrem. There was no measurable increase during 2001 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 2001 was calculated as being 3.5 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 7.0. Approximately 264 cubic meters of solid waste, containing 288 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 2001, 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: 167 Ci, 5.29 μ Ci/sec
- Particulates and iodines with half-life greater than 8 days 0.016 Ci, 0.00052 μ Ci/sec
- Tritium: 260 Ci, 8.2 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 include 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.

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: 517,000 Liters
- Total Dilution Volume: 2,680,000,000 Liters
- Fission/Activation products: 0.0102 Ci, 0.0000000038 μ Ci/mL
- Tritium: 20.4 Ci, 0.0000076 μ Ci/mL
- Dissolved/entrained noble gases: Not Detected

At the end of the fourth quarter 2001, low levels of tritium were detected in the station heating system and demineralized water systems. Investigations have identified the cause of the contamination, and corrective actions are being implemented to remedy the situation. Since both systems had been considered non-radioactive systems, small amounts of water have been released from both systems in controlled evolutions. The systems had been monitored for radioactivity as recently as June 2001 as part of a routine monitoring program, and verified as not containing radioactivity. During the six month period from July-December 2001, an estimated 250 gallons of water was released to the environment from these systems, containing a maximum of 19 microCuries (0.000019 Ci). This extremely low level is less than 0.0026% of the total released through normal radioactive discharges during the same period.

Table 2.1
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Supplemental Information
 January-June 2001

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: 1500 mrem/yr to any organ at site boundary
 >8 days, tritium
- 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. Total time period (minutes):
 - 3. Maximum time period (minutes):
 - 4. Average time period (minutes):
 - 5. Minimum time period (minutes):
 - 6. Average stream flow (Liters/min):
 during periods of release of effluents into a flowing stream

	Jan-Mar 2001	Apr-Jun 2001
	12	21
	3.69E+02	1.45E+03
	5.00E+01	2.20E+02
	3.08E+01	6.90E+01
	2.50E+01	2.30E+01
	1.18E+06	6.93E+05
	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 2001

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: 1500 mrem/yr to any organ at site boundary
 >8 days, tritium
- 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), Sr-89, and Sr-90
- d. Liquid effluents:

5. BATCH RELEASES

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

	Jul-Sep 2001	Oct-Dec 2001
	16	9
	8.01E+02	2.61E+02
	2.00E+02	3.50E+01
	5.01E+01	2.90E+01
	2.50E+01	2.10E+01
	1.17E+06	1.17E+06
	None	None
	None	1
	None	None

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 2001

Period: Jan-Mar 2001	Period: Apr-Jun 2001	Estimated Total Error
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A. FISSION AND ACTIVATION GASES

Total Release: Ci	7.78E+01	4.50E+01	±22%
Average Release Rate During Period: μCi/sec	9.86E+00	5.71E+00	
Percent of Effluent Control Limit	*	*	

B. IODINES

Total Iodine-131 Release: Ci	2.92E-04	4.38E-04	±20%
Average Release Rate During Period: μCi/sec	3.70E-05	5.56E-05	
Percent of Effluent Control Limit	*	*	

C. PARTICULATES

Total Release: Ci	4.39E-04	7.69E-04	±21%
Average Release Rate During Period: μCi/sec	5.56E-05	9.75E-05	
Percent of Effluent Control Limit	*	*	
Gross Alpha Radioactivity: Ci	NDA	NDA	

D. TRITIUM

Total Release: Ci	6.30E+01	5.29E+01	±20%
Average Release Rate During Period: μCi/sec	7.98E+00	6.70E+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 1E-11 μCi/cc.

Table 2.2-A (continued)
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Summation of All Releases
July-December 2001

Period: Jul-Sep 2001	Period: Oct-Dec 2001	Estimated Total Error
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A. FISSION AND ACTIVATION GASES

Total Release: Ci	3.45E+01	9.80E+00	±22%
Average Release Rate During Period: μCi/sec	4.37E+00	1.24E+00	
Percent of Effluent Control Limit	*	*	

B. IODINES

Total Iodine-131 Release: Ci	4.77E-04	7.16E-04	±20%
Average Release Rate During Period: μCi/sec	6.04E-05	9.08E-05	
Percent of Effluent Control Limit	*	*	

C. PARTICULATES

Total Release: Ci	5.62E-04	1.35E-04	±21%
Average Release Rate During Period: μCi/sec	7.12E-05	1.71E-05	
Percent of Effluent Control Limit	*	*	
Gross Alpha Radioactivity: Ci	NDA	NDA	

D. TRITIUM

Total Release: Ci	7.03E+01	7.43E+01	±20%
Average Release Rate During Period: μCi/sec	8.91E+00	9.41E+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 1E-11 μCi/cc.

Table 2.2-B
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Gaseous Effluents - Elevated Release
January-June 2001

Nuclide Released	Continuous Mode		Batch Mode	
	Jan-Mar 2001	Apr-Jun 2001	Jan-Mar 2001	Apr-Jun 2001

1. FISSION AND ACTIVATION GASES - Ci

Ar-41	3.50E+00	2.60E+00	N/A	N/A
Kr-85m	1.40E+01	2.00E+01	N/A	N/A
Kr-87	1.86E+00	2.50E-01	N/A	N/A
Kr-88	2.21E+01	5.01E+00	N/A	N/A
Xe-133	1.65E+01	9.28E+00	N/A	N/A
Xe-133m	1.38E-01	4.90E-01	N/A	N/A
Xe-135	3.19E-01	7.40E-01	N/A	N/A
Xe-135m	NDA	NDA	N/A	N/A
Total for period	5.84E+01	3.83E+01	N/A	N/A

2. IODINES – Ci

I-131	1.55E-04	2.42E-04	N/A	N/A
I-133	7.82E-04	9.58E-04	N/A	N/A
Total for period	9.37E-04	1.20E-03	N/A	N/A

3. PARTICULATES – Ci

Mn-54	2.70E-07	1.08E-05	N/A	N/A
Co-60	1.99E-06	3.90E-06	N/A	N/A
Sr-89	1.90E-05	4.45E-05	N/A	N/A
Sr-90	NDA	NDA	N/A	N/A
Cs-137	4.29E-07	4.16E-06	N/A	N/A
Ba/La-140	1.03E-04	2.72E-04	N/A	N/A
Total for period	1.25E-04	3.35E-04	N/A	N/A

4. TRITIUM – Ci

H-3	4.37E+00	3.73E+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. LLDs 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 2001

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 2001	Oct-Dec 2001	Jul-Sep 2001	Oct-Dec 2001

1. FISSION AND ACTIVATION GASES - Ci

Ar-41	4.74E+00	NDA	N/A	N/A
Kr-85m	8.63E+00	NDA	N/A	N/A
Kr-87	NDA	NDA	N/A	N/A
Kr-88	7.78E-01	NDA	N/A	N/A
Xe-133	1.24E+01	NDA	N/A	N/A
Xe-133m	NDA	NDA	N/A	N/A
Xe-135	1.29E+00	NDA	N/A	N/A
Xe-135m	NDA	NDA	N/A	N/A
Total for period	2.78E+01	NDA	N/A	N/A

2. IODINES – Ci

I-131	2.98E-04	2.56E-04	N/A	N/A
I-133	1.37E-03	1.37E-03	N/A	N/A
Total for period	1.67E-03	1.63E-03	N/A	N/A

3. PARTICULATES – Ci

Mn-54	3.73E-06	6.73E-06	N/A	N/A
Co-60	3.93E-06	2.78E-06	N/A	N/A
Sr-89	3.14E-05	1.97E-05	N/A	N/A
Sr-90	NDA	8.14E-07	N/A	N/A
Cs-137	5.21E-06	NDA	N/A	N/A
Ba/La-140	2.12E-04	NDA	N/A	N/A
Total for period	2.56E-04	3.00E-05	N/A	N/A

4. TRITIUM – Ci

H-3	4.30E+00	3.78E+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. LLDs 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 2001

Nuclide Released	Continuous Mode		Batch Mode	
	Jan-Mar 2001	Apr-Jun 2001	Jan-Mar 2001	Apr-Jun 2001

1. FISSION AND ACTIVATION GASES - Ci

Ar-41	NDA	NDA	N/A	N/A
Kr-85m	9.27E-01	NDA	N/A	N/A
Kr-87	2.91E+00	7.40E-01	N/A	N/A
Kr-88	NDA	NDA	N/A	N/A
Xe-133	NDA	NDA	N/A	N/A
Xe-133m	NDA	NDA	N/A	N/A
Xe-135	8.38E+00	2.53E+00	N/A	N/A
Xe-135m	7.12E+00	3.44E+00	N/A	N/A
Total for period	1.93E+01	6.71E+00	N/A	N/A

2. IODINES – Ci

I-131	1.37E-04	1.96E-04	N/A	N/A
I-133	1.09E-03	1.32E-03	N/A	N/A
Total for period	1.23E-03	1.52E-03	N/A	N/A

3. PARTICULATES – Ci

Mn-54	NDA	3.27E-05	N/A	N/A
Co-60	1.05E-05	4.22E-05	N/A	N/A
Sr-89	1.48E-04	2.99E-04	N/A	N/A
Sr-90	NDA	2.41E-06	N/A	N/A
Cs-137	1.74E-06	1.32E-05	N/A	N/A
Ba/La-140	1.54E-04	4.42E-05	N/A	N/A
Total for period	3.14E-04	4.34E-04	N/A	N/A

4. TRITIUM – Ci

H-3	5.86E+01	4.91E+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. LLDs 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 2001

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 2001	Oct-Dec 2001	Jul-Sep 2001	Oct-Dec 2001

1. FISSION AND ACTIVATION GASES - Ci

Ar-41	NDA	NDA	N/A	N/A
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	1.68E+00	N/A	N/A
Xe-133m	NDA	NDA	N/A	N/A
Xe-135	6.66E+00	8.12E+00	N/A	N/A
Xe-135m	NDA	NDA	N/A	N/A
Total for period	6.66E+00	9.80E+00	N/A	N/A

2. IODINES – Ci

I-131	1.79E-04	4.60E-04	N/A	N/A
I-133	1.36E-03	4.31E-03	N/A	N/A
Total for period	1.54E-03	4.77E-03	N/A	N/A

3. PARTICULATES – Ci

Mn-54	4.83E-06	NDA	N/A	N/A
Co-60	9.53E-06	NDA	N/A	N/A
Sr-89	1.05E-04	1.05E-04	N/A	N/A
Sr-90	NDA	NDA	N/A	N/A
Cs-137	5.11E-05	NDA	N/A	N/A
Ba/La-140	1.35E-04	NDA	N/A	N/A
Total for period	3.06E-04	1.05E-04	N/A	N/A

4. TRITIUM – Ci

H-3	6.60E+01	7.05E+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. LLDs for airborne radionuclides listed as NDA are as follows:
 - Fission Gases: 1E-04 μ Ci/cc
 - Iodines: 1E-12 μ Ci/cc
 - Particulates: 1E-11 μ Ci/cc

Table 2.3-A
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Liquid Effluents - Summation of All Releases
January-June 2001

Period: Jan-Mar 2001	Period: Apr-Jun 2001	Estimated Total Error
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A. FISSION AND ACTIVATION PRODUCTS

Total Release (not including H-3, noble gas, or alpha): Ci	1.82E-03	4.98E-03	±12%
Average Diluted Concentration During Period: µCi/mL	4.18E-09	4.97E-09	
Percent of Effluent Concentration Limit*	3.80E-01%	1.61E-01%	

B. TRITIUM

Total Release: Ci	2.17E-01	1.94E+01	±9.4%
Average Diluted Concentration During Period: µCi/mL	4.98E-07	1.94E-05	
Percent of Effluent Concentration Limit*	4.98E-02%	1.94E+00%	

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	2.11E+04	4.12E+05	±5.7%
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F. VOLUME OF DILUTION WATER USED DURING PERIOD

Dilution Volume: Liters	1.53E+11	1.17E+11	±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 2001

Period: Jul-Sep 2001	Period: Oct-Dec 2001	Estimated Total Error
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A. FISSION AND ACTIVATION PRODUCTS

Total Release (not including H-3, noble gas, or alpha): Ci	2.00E-03	1.45E-03	±12%
Average Diluted Concentration During Period: µCi/mL	2.13E-09	4.73E-09	
Percent of Effluent Concentration Limit*	1.05E-01%	1.18E-01%	

B. TRITIUM

Total Release: Ci	7.11E-01	7.45E-03	±9.4%
Average Diluted Concentration During Period: µCi/mL	7.56E-07	2.43E-08	
Percent of Effluent Concentration Limit*	7.56E-02%	2.43E-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	6.84E+04	1.60E+04	±5.7%
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F. VOLUME OF DILUTION WATER USED DURING PERIOD

Dilution Volume: Liters	1.55E+11	1.56E+11	±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 2001

Nuclide Released	Continuous Mode		Batch Mode	
	Jan-Mar 2001	Apr-Jun 2001	Jan-Mar 2001	Apr-Jun 2001

1. FISSION AND ACTIVATION PRODUCTS - Ci

Cr-51	N/A	N/A	NDA	2.51E-04
Mn-54	N/A	N/A	4.63E-05	6.96E-04
Fe-55	N/A	N/A	8.44E-06	1.63E-03
Fe-59	N/A	N/A	NDA	2.06E-04
Co-58	N/A	N/A	NDA	2.42E-05
Co-60	N/A	N/A	2.03E-04	8.55E-04
Zn-65	N/A	N/A	1.30E-06	6.76E-05
Sr-89	N/A	N/A	NDA	1.39E-05
Sr-90	N/A	N/A	2.32E-05	3.99E-05
Zr/Nb-95	N/A	N/A	NDA	4.34E-06
Ag-110m	N/A	N/A	NDA	1.37E-05
Sb-124	N/A	N/A	NDA	7.23E-06
Cs-137	N/A	N/A	1.54E-03	1.17E-03
Total for period	N/A	N/A	1.82E-03	4.98E-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. LLDs 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 2001

Nuclide Released	Continuous Mode		Batch Mode	
	Jul-Sep 2001	Oct-Dec 2001	Jul-Sep 2001	Oct-Dec 2001

1. FISSION AND ACTIVATION PRODUCTS - Ci

Cr-51	N/A	N/A	NDA	NDA
Mn-54	N/A	N/A	1.52E-04	1.12E-04
Fe-55	N/A	N/A	4.48E-04	9.18E-04
Fe-59	N/A	N/A	2.18E-05	4.02E-06
Co-58	N/A	N/A	1.83E-06	4.10E-07
Co-60	N/A	N/A	5.97E-04	9.78E-05
Zn-65	N/A	N/A	8.97E-06	3.10E-06
Sr-89	N/A	N/A	2.24E-06	NDA
Sr-90	N/A	N/A	1.79E-05	4.14E-06
Zr/Nb-95	N/A	N/A	NDA	NDA
Ag-110m	N/A	N/A	2.36E-05	NDA
Sb-124	N/A	N/A	NDA	3.45E-07
Cs-137	N/A	N/A	7.32E-04	3.07E-04
Total for period	N/A	N/A	2.00E-03	1.45E-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. LLDs 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, 35%
- Wind Direction (from): South-southwest, 16%
- 33-ft Wind Speed: 4-7 mph, 55%
- 220-ft Wind Speed: 13-18 mph, 36%

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 lightning strikes, loss of power, malfunction of the sensors, and/or malfunction of the digital dataloggers. Data recovery for the period was about 96% for the 33-ft level, and 97% 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. PNPS ODCM methodologies were used to calculate 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 a dose assessment computer program 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 2001 were also used as input to the Duke Engineering's "AEOLUS" computer program (Reference 7). This program calculated the atmospheric dispersion and deposition factors used in the dose assessment computer program 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 might 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 2001 resulted in a maximum total body dose of 0.067 mrem. The maximum skin dose was 0.69 mrem. Both of these doses occurred to a hypothetical individual, located at the shoreline 0.10 kilometers NNE of the PNPS Reactor Building. 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 2001^(a)

Release Period	Gamma Air Dose (location)	Beta Air Dose (location)	Total Body Dose (location)	Skin Dose (location)
Jan-Mar	4.58E-02 mrad (0.15 km E)	2.46E-01 mrad (0.08 km N)	3.04E-02 mrem (0.15 km E)	2.40E-01 mrem (0.08 km N)
Apr-Jun	1.70E-02 mrad (0.08 km N)	9.34E-02 mrad (0.08 km N)	1.12E-02 mrem (0.08 km N)	9.50E-02 mrem (0.08 km N)
Jul-Sep	2.11E-02 mrad (0.10 km NNE)	1.56E-01 mrad (0.10 km NNE)	1.39E-02 mrem (0.10 km NNE)	1.34E-01 mrem (0.10 km NNE)
Oct-Dec	2.15E-02 mrad (0.10 km NNE)	1.91E-01 mrad (0.10 km NNE)	1.41E-02 mrem (0.10 km NNE)	1.54E-01 mrem (0.10 km NNE)
Jan-Dec	1.02E-01 mrad (0.10 km NNE)	7.38E-01 mrad (0.10 km NNE)	6.73E-02 mrem (0.10 km NNE)	6.89E-01 mrem (0.10 km NNE)

^(a) All directions and distances are with respect to the reactor building 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 a doses assessment computer program 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 2001 were also used as input to the Duke Engineering's "AEOLUS" computer program (Reference 7). This program calculated the atmospheric dispersion and deposition factors used in the dose assessment computer program 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 might 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 2001 resulted in a maximum total body dose (teen age class) of 1.21 mrem. The maximum organ dose (teen age class, thyroid) was 1.46 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 0.058 mrem (child age class at a location 0.9 kilometers SE from the Reactor Building), while the maximum organ dose was 0.067 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 2001

Receptor: Direction: Distance ¹ : Pathway ² :	Bound N 0.08 km DI	Resident ESE 0.80 km DI	Garden SE 0.87 km DIV ³	Cow/Goat WSW 3.97 km DIVCG ³	Cow/Meat W 5.77 km DIVCM ³	Meat S 3.80 km DIVM ³
Age Class: Adult						
Bone	2.83E-03	1.96E-04	6.52E-04	4.29E-05	1.68E-05	3.18E-05
GI-LLI	1.82E-01	4.50E-03	1.02E-02	6.02E-04	2.81E-04	6.42E-04
Kidney	1.82E-01	4.50E-03	1.01E-02	5.99E-04	2.78E-04	6.37E-04
Liver	1.82E-01	4.50E-03	1.01E-02	5.99E-04	2.78E-04	6.37E-04
Lung	1.84E-01	4.53E-03	1.01E-02	5.95E-04	2.78E-04	6.37E-04
Thyroid	1.99E-01	4.87E-03	1.12E-02	1.50E-03	3.48E-04	7.47E-04
Total Body	1.82E-01	4.49E-03	1.01E-02	5.98E-04	2.78E-04	6.37E-04
Age Class: Teen						
Bone	2.94E-03	1.98E-04	9.69E-04	6.94E-05	2.47E-05	4.64E-05
GI-LLI	1.84E-01	4.54E-03	1.14E-02	7.20E-04	3.05E-04	6.94E-04
Kidney	1.84E-01	4.54E-03	1.13E-02	7.20E-04	3.02E-04	6.89E-04
Liver	1.84E-01	4.53E-03	1.13E-02	7.19E-04	3.02E-04	6.89E-04
Lung	1.86E-01	4.59E-03	1.13E-02	7.12E-04	3.02E-04	6.89E-04
Thyroid	2.05E-01	5.02E-03	1.24E-02	2.09E-03	3.80E-04	7.86E-04
Total Body	1.84E-01	4.53E-03	1.13E-02	7.16E-04	3.03E-04	6.89E-04
Age Class: Child						
Bone	3.08E-03	2.01E-04	2.20E-03	1.63E-04	5.60E-05	1.05E-04
GI-LLI	1.63E-01	4.03E-03	1.61E-02	1.07E-03	4.28E-04	9.71E-04
Kidney	1.63E-01	4.03E-03	1.60E-02	1.08E-03	4.26E-04	9.68E-04
Liver	1.63E-01	4.03E-03	1.60E-02	1.07E-03	4.26E-04	9.68E-04
Lung	1.65E-01	4.07E-03	1.60E-02	1.06E-03	4.26E-04	9.68E-04
Thyroid	1.89E-01	4.63E-03	1.76E-02	3.77E-03	5.60E-04	1.11E-03
Total Body	1.63E-01	4.03E-03	1.61E-02	1.07E-03	4.27E-04	9.70E-04
Age Class: Infant						
Bone	2.92E-03	1.98E-04	8.43E-05	1.47E-04	5.17E-06	4.24E-06
GI-LLI	9.46E-02	2.40E-03	1.29E-03	8.18E-04	5.12E-05	7.44E-05
Kidney	9.47E-02	2.40E-03	1.29E-03	8.41E-04	5.18E-05	7.44E-05
Liver	9.47E-02	2.40E-03	1.29E-03	8.45E-04	5.18E-05	7.44E-05
Lung	9.65E-02	2.44E-03	1.31E-03	8.17E-04	5.16E-05	7.57E-05
Thyroid	1.19E-01	2.95E-03	1.59E-03	7.15E-03	2.39E-04	9.63E-05
Total Body	9.46E-02	2.40E-03	1.29E-03	8.27E-04	5.14E-05	7.43E-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 2001

Receptor: Direction: Distance ¹ : Pathway ² :	Bound N 0.08 km DI	Resident NW 0.74 km DI	Garden SE 0.87 km DIV ³	Cow/Goat WSW 3.97 km DIVCG ³	Cow/Meat W 5.77 km DIVCM ³	Meat S 3.80 km DIVM ³
Age Class: Adult						
Bone	2.24E-02	3.68E-04	1.37E-03	2.31E-04	1.11E-04	1.85E-04
GI-LLI	2.23E-01	3.47E-03	6.39E-03	1.34E-03	5.10E-04	6.82E-04
Kidney	2.23E-01	3.46E-03	6.24E-03	1.33E-03	4.97E-04	6.59E-04
Liver	2.22E-01	3.46E-03	6.26E-03	1.34E-03	4.99E-04	6.63E-04
Lung	2.27E-01	3.52E-03	6.25E-03	1.31E-03	4.97E-04	6.59E-04
Thyroid	2.51E-01	3.88E-03	7.22E-03	3.04E-03	6.85E-04	9.03E-04
Total Body	2.22E-01	3.46E-03	6.28E-03	1.33E-03	5.00E-04	6.64E-04
Age Class: Teen						
Bone	2.27E-02	3.73E-04	1.92E-03	3.55E-04	1.55E-04	2.57E-04
GI-LLI	2.25E-01	3.50E-03	7.16E-03	1.60E-03	5.53E-04	7.35E-04
Kidney	2.24E-01	3.49E-03	6.99E-03	1.59E-03	5.40E-04	7.12E-04
Liver	2.24E-01	3.49E-03	7.02E-03	1.61E-03	5.43E-04	7.17E-04
Lung	2.31E-01	3.58E-03	7.02E-03	1.57E-03	5.40E-04	7.13E-04
Thyroid	2.62E-01	4.03E-03	7.89E-03	4.20E-03	7.48E-04	9.22E-04
Total Body	2.24E-01	3.49E-03	7.04E-03	1.59E-03	5.43E-04	7.17E-04
Age Class: Child						
Bone	2.32E-02	3.79E-04	4.08E-03	7.94E-04	3.29E-04	5.47E-04
GI-LLI	2.01E-01	3.12E-03	9.92E-03	2.35E-03	7.63E-04	1.00E-03
Kidney	2.01E-01	3.12E-03	9.82E-03	2.37E-03	7.56E-04	9.90E-04
Liver	2.01E-01	3.12E-03	9.88E-03	2.41E-03	7.61E-04	9.99E-04
Lung	2.06E-01	3.20E-03	9.83E-03	2.33E-03	7.55E-04	9.90E-04
Thyroid	2.47E-01	3.79E-03	1.11E-02	7.49E-03	1.12E-03	1.30E-03
Total Body	2.01E-01	3.12E-03	9.91E-03	2.36E-03	7.62E-04	1.00E-03
Age Class: Infant						
Bone	2.24E-02	3.69E-04	2.18E-04	6.20E-04	3.08E-05	2.91E-05
GI-LLI	1.24E-01	1.95E-03	9.39E-04	1.80E-03	1.02E-04	9.84E-05
Kidney	1.25E-01	1.95E-03	9.39E-04	1.87E-03	1.04E-04	9.85E-05
Liver	1.25E-01	1.95E-03	9.39E-04	1.95E-03	1.05E-04	9.85E-05
Lung	1.29E-01	2.02E-03	9.71E-04	1.81E-03	1.04E-04	1.02E-04
Thyroid	1.67E-01	2.57E-03	1.22E-03	1.39E-02	6.12E-04	1.34E-04
Total Body	1.24E-01	1.94E-03	9.38E-04	1.83E-03	1.03E-04	9.84E-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 2001

Receptor: Direction: Distance ¹ : Pathway ² :	Bound NNE 0.10 km DI	Resident NW 0.74 km DI	Garden SE 0.87 km DIV ³	Cow/Goat WSW 3.97 km DIVCG ³	Cow/Meat W 5.77 km DIVCM ³	Meat S 3.80 km DIVM ³
Age Class: Adult						
Bone	2.59E-02	1.84E-04	4.16E-04	1.33E-04	2.16E-05	4.74E-05
GI-LLI	4.78E-01	3.48E-03	1.09E-02	2.32E-03	4.73E-04	9.60E-04
Kidney	4.78E-01	3.48E-03	1.09E-02	2.35E-03	4.73E-04	9.58E-04
Liver	4.78E-01	3.48E-03	1.09E-02	2.40E-03	4.76E-04	9.65E-04
Lung	4.80E-01	3.50E-03	1.09E-02	2.32E-03	4.71E-04	9.56E-04
Thyroid	5.24E-01	3.81E-03	1.17E-02	4.41E-03	6.13E-04	1.15E-03
Total Body	4.77E-01	3.48E-03	1.09E-02	2.37E-03	4.74E-04	9.62E-04
Age Class: Teen						
Bone	2.62E-02	1.86E-04	5.80E-04	2.17E-04	2.99E-05	6.50E-05
GI-LLI	4.82E-01	3.51E-03	1.22E-02	2.78E-03	5.14E-04	1.04E-03
Kidney	4.82E-01	3.51E-03	1.22E-02	2.83E-03	5.14E-04	1.04E-03
Liver	4.82E-01	3.51E-03	1.23E-02	2.92E-03	5.19E-04	1.05E-03
Lung	4.86E-01	3.54E-03	1.22E-02	2.79E-03	5.12E-04	1.03E-03
Thyroid	5.42E-01	3.94E-03	1.30E-02	5.96E-03	6.70E-04	1.20E-03
Total Body	4.81E-01	3.51E-03	1.22E-02	2.82E-03	5.14E-04	1.04E-03
Age Class: Child						
Bone	2.66E-02	1.88E-04	1.20E-03	5.00E-04	6.27E-05	1.35E-04
GI-LLI	4.28E-01	3.12E-03	1.72E-02	4.13E-03	7.21E-04	1.45E-03
Kidney	4.28E-01	3.13E-03	1.73E-02	4.23E-03	7.24E-04	1.46E-03
Liver	4.29E-01	3.13E-03	1.74E-02	4.39E-03	7.33E-04	1.47E-03
Lung	4.32E-01	3.15E-03	1.72E-02	4.15E-03	7.21E-04	1.45E-03
Thyroid	5.04E-01	3.65E-03	1.84E-02	1.04E-02	9.93E-04	1.70E-03
Total Body	4.28E-01	3.12E-03	1.72E-02	4.17E-03	7.22E-04	1.45E-03
Age Class: Infant						
Bone	2.61E-02	1.85E-04	1.31E-04	5.87E-04	1.19E-05	1.39E-05
GI-LLI	2.57E-01	1.87E-03	1.42E-03	3.17E-03	8.86E-05	1.18E-04
Kidney	2.57E-01	1.87E-03	1.42E-03	3.34E-03	9.08E-05	1.18E-04
Liver	2.57E-01	1.88E-03	1.42E-03	3.65E-03	9.31E-05	1.18E-04
Lung	2.60E-01	1.89E-03	1.44E-03	3.22E-03	8.96E-05	1.20E-04
Thyroid	3.27E-01	2.36E-03	1.79E-03	1.78E-02	4.72E-04	1.56E-04
Total Body	2.57E-01	1.87E-03	1.42E-03	3.22E-03	8.93E-05	1.18E-04

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 2001

Receptor: Direction: Distance ¹ : Pathway ² :	Bound NNE 0.10 km DI	Resident ESE 0.80 km DI	Garden SE 0.87 km DIV ³	Cow/Goat WSW 3.97 km DIVCG ³	Cow/Meat W 5.77 km DIVCM ³	Meat S 3.80 km DIVM ³
Age Class: Adult						
Bone	1.17E-03	1.54E-05	4.76E-04	3.25E-05	1.06E-05	2.62E-05
GI-LLI	4.46E-01	5.24E-03	1.14E-02	7.07E-04	3.84E-04	5.61E-04
Kidney	4.47E-01	5.24E-03	1.14E-02	7.11E-04	3.83E-04	5.59E-04
Liver	4.46E-01	5.24E-03	1.14E-02	7.07E-04	3.83E-04	5.58E-04
Lung	4.47E-01	5.24E-03	1.14E-02	7.02E-04	3.83E-04	5.58E-04
Thyroid	5.73E-01	6.62E-03	1.57E-02	2.33E-03	5.17E-04	7.81E-04
Total Body	4.46E-01	5.23E-03	1.14E-02	7.05E-04	3.83E-04	5.58E-04
Age Class: Teen						
Bone	1.46E-03	1.86E-05	7.30E-04	5.15E-05	1.52E-05	3.76E-05
GI-LLI	4.50E-01	5.28E-03	1.29E-02	8.47E-04	4.17E-04	6.07E-04
Kidney	4.51E-01	5.29E-03	1.28E-02	8.56E-04	4.17E-04	6.04E-04
Liver	4.50E-01	5.29E-03	1.28E-02	8.49E-04	4.16E-04	6.04E-04
Lung	4.52E-01	5.30E-03	1.28E-02	8.41E-04	4.16E-04	6.03E-04
Thyroid	6.16E-01	7.10E-03	1.67E-02	3.33E-03	5.68E-04	8.03E-04
Total Body	4.50E-01	5.28E-03	1.28E-02	8.46E-04	4.16E-04	6.04E-04
Age Class: Child						
Bone	1.82E-03	2.26E-05	1.73E-03	1.19E-04	3.37E-05	8.37E-05
GI-LLI	3.97E-01	4.66E-03	1.82E-02	1.26E-03	5.88E-04	8.51E-04
Kidney	3.99E-01	4.68E-03	1.81E-02	1.28E-03	5.88E-04	8.50E-04
Liver	3.98E-01	4.67E-03	1.81E-02	1.27E-03	5.88E-04	8.49E-04
Lung	3.99E-01	4.68E-03	1.81E-02	1.25E-03	5.87E-04	8.49E-04
Thyroid	6.04E-01	6.93E-03	2.39E-02	6.14E-03	8.44E-04	1.14E-03
Total Body	3.97E-01	4.66E-03	1.81E-02	1.27E-03	5.88E-04	8.51E-04
Age Class: Infant						
Bone	1.47E-03	1.88E-05	1.29E-05	1.02E-04	2.57E-06	1.30E-06
GI-LLI	2.29E-01	2.69E-03	1.38E-03	9.67E-04	6.84E-05	6.30E-05
Kidney	2.30E-01	2.69E-03	1.39E-03	1.01E-03	6.97E-05	6.32E-05
Liver	2.29E-01	2.69E-03	1.39E-03	1.00E-03	6.95E-05	6.32E-05
Lung	2.30E-01	2.70E-03	1.39E-03	9.64E-04	6.86E-05	6.34E-05
Thyroid	4.19E-01	4.77E-03	2.45E-03	1.24E-02	4.19E-04	1.14E-04
Total Body	2.29E-01	2.69E-03	1.38E-03	9.81E-04	6.89E-05	6.30E-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-E

Maximum Individual Organ Dose at Receptor Location -- mrem
From Gaseous Release Period: January-December 2001

Receptor: Direction: Distance ¹ : Pathway ² :	Bound NNE 0.10 km DI	Resident ESE 0.80 km DI	Garden SE 0.87 km DIV ³	Cow/Goat WSW 3.97 km DIVCG ³	Cow/Meat W 5.77 km DIVCM ³	Meat S 3.80 km DIVM ³
Age Class: Adult						
Bone	5.03E-02	9.02E-04	3.24E-03	3.83E-04	1.24E-04	2.47E-04
GI-LLI	1.20E+00	1.52E-02	3.70E-02	5.08E-03	1.68E-03	2.88E-03
Kidney	1.20E+00	1.52E-02	3.67E-02	5.09E-03	1.67E-03	2.85E-03
Liver	1.20E+00	1.52E-02	3.68E-02	5.13E-03	1.67E-03	2.86E-03
Lung	1.21E+00	1.53E-02	3.66E-02	5.04E-03	1.67E-03	2.85E-03
Thyroid	1.39E+00	1.73E-02	4.31E-02	1.19E-02	2.24E-03	3.66E-03
Total Body	1.20E+00	1.52E-02	3.68E-02	5.10E-03	1.67E-03	2.86E-03
Age Class: Teen						
Bone	5.12E-02	9.14E-04	4.62E-03	6.07E-04	1.76E-04	3.47E-04
GI-LLI	1.22E+00	1.53E-02	4.15E-02	6.08E-03	1.83E-03	3.11E-03
Kidney	1.22E+00	1.53E-02	4.12E-02	6.13E-03	1.81E-03	3.08E-03
Liver	1.21E+00	1.53E-02	4.14E-02	6.20E-03	1.82E-03	3.09E-03
Lung	1.23E+00	1.55E-02	4.12E-02	6.04E-03	1.81E-03	3.08E-03
Thyroid	1.46E+00	1.81E-02	4.71E-02	1.64E-02	2.45E-03	3.79E-03
Total Body	1.21E+00	1.53E-02	4.13E-02	6.10E-03	1.82E-03	3.09E-03
Age Class: Child						
Bone	5.24E-02	9.28E-04	1.00E-02	1.39E-03	3.80E-04	7.47E-04
GI-LLI	1.08E+00	1.36E-02	5.83E-02	9.01E-03	2.56E-03	4.33E-03
Kidney	1.08E+00	1.36E-02	5.81E-02	9.15E-03	2.56E-03	4.32E-03
Liver	1.08E+00	1.36E-02	5.85E-02	9.28E-03	2.57E-03	4.35E-03
Lung	1.09E+00	1.38E-02	5.81E-02	9.00E-03	2.55E-03	4.32E-03
Thyroid	1.38E+00	1.71E-02	6.68E-02	2.94E-02	3.65E-03	5.37E-03
Total Body	1.08E+00	1.36E-02	5.83E-02	9.06E-03	2.56E-03	4.33E-03
Age Class: Infant						
Bone	5.08E-02	9.09E-04	5.51E-04	1.28E-03	4.17E-05	4.04E-05
GI-LLI	6.40E-01	8.21E-03	4.89E-03	6.92E-03	3.12E-04	3.51E-04
Kidney	6.41E-01	8.22E-03	4.90E-03	7.19E-03	3.19E-04	3.51E-04
Liver	6.41E-01	8.22E-03	4.90E-03	7.48E-03	3.22E-04	3.51E-04
Lung	6.52E-01	8.35E-03	4.97E-03	6.95E-03	3.16E-04	3.57E-04
Thyroid	9.18E-01	1.14E-02	6.80E-03	5.48E-02	1.84E-03	5.11E-04
Total Body	6.40E-01	8.21E-03	4.89E-03	7.01E-03	3.14E-04	3.51E-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 dose assessment computer program 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 might 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 2001 resulted in a maximum total body dose (teen age class) of 0.00051 mrem. The maximum organ dose (adult age class, gastrointestinal tract) was 0.0015 mrem.

Table 4.3-A

Maximum Individual Organ Doses -- mrem
 From Liquid Release Period: January-March 2001

Organ	Age Class Organ Dose - mrem		
	Adult	Teen	Child*
Bone	6.69E-05	9.54E-05	8.33E-05
GI-LLI	4.39E-05	6.00E-05	1.68E-05
Kidney	2.90E-05	5.88E-05	2.76E-05
Liver	7.23E-05	1.02E-04	6.91E-05
Lung	1.40E-05	4.52E-05	1.50E-05
Thyroid	6.65E-06	3.65E-05	7.70E-06
Total Body	5.07E-05	6.25E-05	2.22E-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 -- mrem
 From Liquid Release Period: April-June 2001

Organ	Age Class Organ Dose - mrem		
	Adult	Teen	Child
Bone	7.15E-04	7.29E-04	9.33E-04
GI-LLI	1.34E-03	9.50E-04	3.78E-04
Kidney	1.99E-04	2.33E-04	1.55E-04
Liver	8.70E-04	8.75E-04	8.05E-04
Lung	2.73E-04	3.54E-04	2.79E-04
Thyroid	2.69E-05	8.41E-05	2.42E-05
Total Body	3.45E-04	3.66E-04	3.65E-04

Table 4.3-C

Maximum Individual Organ Doses -- mrem
 From Liquid Release Period: July-September 2001

Organ	Age Class Organ Dose - mrem		
	Adult	Teen	Child
Bone	1.48E-04	1.70E-04	1.95E-04
GI-LLI	2.58E-04	2.01E-04	7.35E-05
Kidney	3.20E-05	5.97E-05	2.81E-05
Liver	1.48E-04	1.72E-04	1.43E-04
Lung	5.19E-05	8.67E-05	5.54E-05
Thyroid	6.93E-06	3.68E-05	7.88E-06
Total Body	6.78E-05	8.68E-05	6.39E-05

Table 4.3-D

Maximum Individual Organ Doses -- mrem
From Liquid Release Period: October-December 2001

Organ	Age Class Organ Dose – mrem*		
	Adult	Teen	Child
Bone	2.13E-04	2.11E-04	2.93E-04
GI-LLI	1.17E-04	9.05E-05	3.79E-05
Kidney	1.14E-05	1.84E-05	9.80E-06
Liver	1.63E-04	1.66E-04	1.69E-04
Lung	7.98E-05	9.62E-05	8.61E-05
Thyroid	1.72E-06	9.55E-06	2.00E-06
Total Body	4.77E-05	5.08E-05	5.60E-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 -- mrem
 From Liquid Release Period: January-December 2001

Organ	Age Class Organ Dose – mrem*		
	Adult	Teen	Child
Bone	1.03E-03	1.10E-03	1.36E-03
GI-LLI	1.53E-03	1.14E-03	4.42E-04
Kidney	2.37E-04	3.33E-04	1.95E-04
Liver	1.11E-03	1.18E-03	1.06E-03
Lung	3.76E-04	5.29E-04	3.92E-04
Thyroid	3.79E-05	1.56E-04	3.81E-05
Total Body	4.55E-04	5.08E-04	4.46E-04

* 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 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 5.0.

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 5.0 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 540 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 90.9 ± 78.3 mR/yr to 63.2 ± 6.7 mR/yr. Such a corrected dose is not statistically different from the Zone 4 average of 61.3 ± 8.3 mR/yr.

Although the annual exposure at TLD location OA was 479 mR above the average Zone 4 exposure rate, members of the general public do not continuously occupy this area. 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 2.2 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 61.7 ± 6.5 mR, which compares quite well to the Zone 4 annual average of 61.3 ± 8.3 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 2001 is estimated as being about 9.3 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 2001. 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 0.004 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 5.0

Average TLD Exposures By Distance Zone During 2001

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	23.1 \pm 23.6	13.9 \pm 2.9	13.4 \pm 1.4	14.1 \pm 1.7
Apr-Jun	21.5 \pm 13.1	15.3 \pm 3.1	14.9 \pm 1.3	16.1 \pm 2.1
Jul-Sep	22.9 \pm 19.9	14.6 \pm 2.9	14.2 \pm 1.6	15.2 \pm 2.3
Oct-Dec	23.4 \pm 21.2	14.6 \pm 1.5	14.8 \pm 1.5	15.9 \pm 2.1
Jan-Dec	90.9 \pm 78.3**	58.4 \pm 10.6	57.4 \pm 6.1	61.3 \pm 8.3

* 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 63.2 \pm 6.7 mR/yr.

6.0 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 6.1 and 6.2.

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) that became effective March 01, 1986. The percentages have been grouped according to whether the releases were via liquid or gaseous effluent pathways.

6.1 Gaseous Effluent Releases

Dose-based effluent controls related to exposures arising from gaseous effluent releases are presented in Table 6.1. 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 6.1. 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 6.1. 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 6.1. The resulting organ doses from Pilgrim Station's gaseous releases during 2001 were a small percentage of the corresponding effluent control.

Table 6.1

Percent of ODCM Effluent Control Limits
for Gaseous Effluent Releases During 2001

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	6.73E-02	1.35E-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	6.89E-01	2.30E-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	1.46E+00	9.73E-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	4.58E-02	9.16E-01%
April-June	1.70E-02	3.40E-01%
July-September	2.11E-02	4.22E-01%
October-December	2.15E-02	4.30E-01%
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	1.02E-01	1.02E+00%

Table 6.1 (continued)

Percent of ODCM Effluent Control Limits
for Gaseous Effluent Releases During 2001

- 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	2.46E-01	2.46E+00%
April-June	9.34E-02	9.34E-01%
July-September	1.56E-01	1.56E+00%
October-December	1.91E-01	1.91E+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	7.38E-01	3.69E+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	2.05E-01	2.73E+00%
April-June	2.62E-01	3.49E+00%
July-September	5.42E-01	7.23E+00%
October-December	6.16E-01	8.21E+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	1.46E+00	9.73E+00%

6.2 Liquid Effluent Releases

Liquid effluent concentration limits and dose objectives from the PNPS ODCM are shown in Table 6.2. 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 6.2. The resulting concentration and doses from Pilgrim Station's liquid releases during 2001 were a very small percentage of the corresponding effluent control.

Table 6.2

Percent of ODCM Effluent Control Limits
for Liquid Effluent Releases During 2001

- 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	4.18E-09	3.80E-01%
April-June	4.97E-09	1.61E-01%
July-September	2.13E-09	1.05E-01%
October-December	4.73E-09	1.18E-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	4.98E-07	4.98E-02%
April-June	1.94E-05	1.94E+00%
July-September	7.56E-07	7.56E-02%
October-December	2.43E-08	2.43E-03%

- 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 6.2 (continued)

Percent of ODCM Effluent Control Limits
for Liquid Effluent Releases During 2001

-
- 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	6.25E-05	4.16E-03%
April-June	3.66E-04	2.44E-02%
July-September	8.68E-05	5.79E-03%
October-December	5.60E-05	3.73E-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	5.08E-04	1.69E-02%

- 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	1.02E-04	2.05E-03%
April-June	1.34E-03	2.69E-02%
July-September	2.58E-04	5.17E-03%
October-December	2.93E-04	5.87E-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	1.53E-03	1.53E-02%

7.0 RADIOACTIVE WASTE DISPOSAL DATA

Radioactive wastes that were shipped offsite for processing and disposal during the reporting period are described in Table 7.0, 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 7.0 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 48.3 cubic meters of spent resins, filter sludges, etc., containing a total activity of about 259 Curies were shipped from PNPS for processing and disposal. Dry activated wastes and contaminated equipment shipped during the period totaled 216 cubic meters and contained 29.3 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 7.0. There were 24 shipments to Oak Ridge, TN (GTS Duratek, ATG Catalytic), and 8 shipments to Erwin, TN (Studsвик).

Table 7.0
Pilgrim Nuclear Power Station
Effluent and Waste Disposal Report
Solid Waste and Irradiated Fuel Shipments
January-June 2001

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 2001		
	Volume - m ³	Curies	Total Error
a. Spent resins, filters, filter sludges, evaporator bottoms, etc.	1.46E+01	2.12E+02	± 25%
b. Dry activated waste, contaminated equipment, etc.	7.98E+01	3.09E-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	9.80E+00%	± 25%
	Cs-137	6.20E+00%	± 25%
b. Dry activated waste, contaminated equipment, etc.	Mn-54	1.30E+01%	± 25%
	Fe-55	8.10E+01%	± 25%
	Co-60	5.50E+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
19	Tractor-trailer	GTS Duratek, ² Oak Ridge, TN
1	Tractor-trailer	ATG Catalytic, ² Oak Ridge, TN
2	Tractor-trailer	Studsvik, ² 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

Table 7.0 (continued)
 Pilgrim Nuclear Power Station
 Effluent and Waste Disposal Report
 Solid Waste and Irradiated Fuel Shipments
 July-December 2001

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

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

Type of waste	Jul-Dec 2001		
	Volume - m ³	Curies	Total Error
a. Spent resins, filters, filter sludges, evaporator bottoms, etc.	3.36E+01	4.71E+01	± 25%
b. Dry activated waste, contaminated equipment, etc.	1.36E+02	2.90E+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	9.93E+00%	± 25%
	Fe-55	1.32E+01%	± 25%
	Co-60	3.10E+01%	± 25%
	Ni-63	2.81E+00%	± 25%
	Cs-137	4.00E+01%	± 25%
b. Dry activated waste, contaminated equipment, etc.	Mn-54	9.87E+00%	± 25%
	Fe-55	7.94E+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
2	Tractor-trailer	GTS Duratek, ² Oak Ridge, TN
2	Tractor-trailer	ATG Catalytic, ² Oak Ridge, TN
6	Tractor-trailer	Studsvik, ² 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

8.0 OFFSITE DOSE CALCULATION MANUAL REVISIONS

The PNPS Offsite Dose Calculation Manual (ODCM) was not revised during the calendar year of 2001.

9.0 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, 2001", dated May 2002.
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. 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 JAN01-MAR01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 9.74	
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	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	3
(1)	.00	.00	.49	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.49	.00	.00	.00	.00	1.47
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.14
4-7	10	10	3	1	3	1	0	1	0	1	0	3	23	29	15	18	0	0	118
(1)	4.90	4.90	1.47	.49	1.47	.49	.00	.49	.00	.49	.00	1.47	11.27	14.22	7.35	8.82	.00	.00	57.84
(2)	.48	.48	.14	.05	.14	.05	.00	.05	.00	.05	.00	.14	1.10	1.38	.72	.86	.00	.00	5.63
8-12	0	0	8	0	0	1	0	0	2	5	3	2	27	23	3	1	0	0	75
(1)	.00	.00	3.92	.00	.00	.49	.00	.00	.98	2.45	1.47	.98	13.24	11.27	1.47	.49	.00	.00	36.76
(2)	.00	.00	.38	.00	.00	.05	.00	.00	.10	.24	.14	.10	1.29	1.10	.14	.05	.00	.00	3.58
13-18	0	0	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0	8
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	3.43	.00	.00	.00	.00	.00	3.92
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.33	.00	.00	.00	.00	.00	.38
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	10	10	12	1	3	2	0	1	2	6	3	6	58	53	18	19	0	0	204
(1)	4.90	4.90	5.88	.49	1.47	.98	.00	.49	.98	2.94	1.47	2.94	28.43	25.98	8.82	9.31	.00	.00	100.00
(2)	.48	.48	.57	.05	.14	.10	.00	.05	.10	.29	.14	.29	2.77	2.53	.86	.91	.00	.00	9.74

33.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 4.01	
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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	6
(1)	4.76	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.19	1.19	.00	.00	7.14
(2)	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.29
4-7	4	1	2	2	2	0	1	0	4	1	0	4	4	6	0	5	0	0	36
(1)	4.76	1.19	2.38	2.38	2.38	.00	1.19	.00	4.76	1.19	.00	4.76	4.76	7.14	.00	5.95	.00	.00	42.86
(2)	.19	.05	.10	.10	.10	.00	.05	.00	.19	.05	.00	.19	.19	.29	.00	.24	.00	.00	1.72
8-12	0	3	4	0	1	1	0	0	3	4	0	2	13	5	1	1	0	0	38
(1)	.00	3.57	4.76	.00	1.19	1.19	.00	.00	3.57	4.76	.00	2.38	15.48	5.95	1.19	1.19	.00	.00	45.24
(2)	.00	.14	.19	.00	.05	.05	.00	.00	.14	.19	.00	.10	.62	.24	.05	.05	.00	.00	1.81
13-18	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	4
(1)	.00	.00	1.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.38	.00	1.19	.00	.00	4.76
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.05	.00	.00	.19
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	8	4	7	2	3	1	1	0	7	5	0	6	17	13	2	8	0	0	84
(1)	9.52	4.76	8.33	2.38	3.57	1.19	1.19	.00	8.33	5.95	.00	7.14	20.24	15.48	2.38	9.52	.00	.00	100.00
(2)	.38	.19	.33	.10	.14	.05	.05	.00	.33	.24	.00	.29	.81	.62	.10	.38	.00	.00	4.01

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

Table A-1 (continued)

PILGRIM JAN01-MAR01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 4.73		
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	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	6
(1)	1.01	1.01	.00	1.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.01	.00	1.01	1.01	.00	.00	6.06
(2)	.05	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.05	.00	.00	.29
4-7	1	0	2	3	3	1	1	0	5	2	3	7	9	6	6	4	0	0	53	
(1)	1.01	.00	2.02	3.03	3.03	1.01	1.01	.00	5.05	2.02	3.03	7.07	9.09	6.06	6.06	4.04	.00	.00	53.54	
(2)	.05	.00	.10	.14	.14	.05	.05	.00	.24	.10	.14	.33	.43	.29	.29	.19	.00	.00	2.53	
8-12	1	2	1	0	2	0	0	0	0	0	1	8	14	3	2	0	0	34		
(1)	1.01	2.02	1.01	.00	2.02	.00	.00	.00	.00	.00	1.01	8.08	14.14	3.03	2.02	.00	.00	34.34		
(2)	.05	.10	.05	.00	.10	.00	.00	.00	.00	.00	.05	.38	.67	.14	.10	.00	.00	1.62		
13-18	0	1	2	0	0	0	0	0	0	0	0	0	2	0	1	0	0	6		
(1)	.00	1.01	2.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.02	.00	1.01	.00	.00	6.06		
(2)	.00	.05	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.05	.00	.00	.29		
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	3	4	5	4	5	1	1	0	5	2	4	15	26	9	10	5	0	99		
(1)	3.03	4.04	5.05	4.04	5.05	1.01	1.01	.00	5.05	2.02	4.04	15.15	26.26	9.09	10.10	5.05	.00	100.00		
(2)	.14	.19	.24	.19	.24	.05	.05	.00	.24	.10	.19	.72	1.24	.43	.48	.24	.00	4.73		

33.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 33.27	
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
(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	4	3	4	1	1	2	5	6	7	3	2	5	5	4	3	0	0	55	
(1)	.57	.43	.57	.14	.14	.29	.72	.86	1.00	.43	.29	.72	.57	.43	.43	.00	.00	7.89	
(2)	.19	.14	.19	.05	.05	.10	.24	.29	.33	.14	.10	.24	.24	.19	.14	.00	.00	2.63	
4-7	13	15	8	5	17	9	17	7	23	15	19	37	52	66	21	17	0	341	
(1)	1.87	2.15	1.15	.72	2.44	1.29	2.44	1.00	3.30	2.15	2.73	5.31	7.46	9.47	3.01	2.44	.00	48.92	
(2)	.62	.72	.38	.24	.81	.43	.81	.33	1.10	.72	.91	1.77	2.48	3.15	1.00	.81	.00	16.28	
8-12	0	6	16	15	8	4	5	0	10	20	2	25	77	39	22	0	0	249	
(1)	.00	.86	2.30	2.15	1.15	.57	.72	.00	1.43	2.87	.29	3.59	11.05	5.60	3.16	.00	.00	35.72	
(2)	.00	.29	.76	.72	.38	.19	.24	.00	.48	.95	.10	1.19	3.68	1.86	1.05	.00	.00	11.89	
13-18	1	2	7	9	0	0	0	0	0	0	0	0	21	8	1	0	0	49	
(1)	.14	.29	1.00	1.29	.00	.00	.00	.00	.00	.00	.00	.00	3.01	1.15	.14	.00	.00	7.03	
(2)	.05	.10	.33	.43	.00	.00	.00	.00	.00	.00	.00	.00	1.00	.38	.05	.00	.00	2.34	
19-24	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
(1)	.00	.00	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	
(2)	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	18	26	38	30	26	15	27	13	40	38	23	67	155	117	47	17	0	697	
(1)	2.58	3.73	5.45	4.30	3.73	2.15	3.87	1.87	5.74	5.45	3.30	9.61	22.24	16.79	6.74	2.44	.00	100.00	
(2)	.86	1.24	1.81	1.43	1.24	.72	1.29	.62	1.91	1.81	1.10	3.20	7.40	5.58	2.24	.81	.00	33.27	

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

Table A-1 (continued)

PILGRIM JAN01-MAR01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 42.00	
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
(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	8	2	0	0	1	6	18	13	11	10	11	26	14	10	12	5	0	0	147
(1)	.91	.23	.00	.00	.11	.68	2.05	1.48	1.25	1.14	1.25	2.95	1.59	1.14	1.36	.57	.00	.00	16.70
(2)	.38	.10	.00	.00	.05	.29	.86	.62	.53	.48	.53	1.24	.67	.48	.57	.24	.00	.00	7.02
4-7	10	5	3	6	7	6	21	14	22	58	53	112	95	35	21	7	0	0	475
(1)	1.14	.57	.34	.68	.80	.68	2.39	1.59	2.50	6.59	6.02	12.73	10.80	3.98	2.39	.80	.00	.00	53.98
(2)	.48	.24	.14	.29	.33	.29	1.00	.67	1.05	2.77	2.53	5.35	4.53	1.67	1.00	.33	.00	.00	22.67
8-12	1	4	1	7	11	5	5	2	18	24	24	23	50	8	8	4	0	0	195
(1)	.11	.45	.11	.80	1.25	.57	.57	.23	2.05	2.73	2.73	2.61	5.68	.91	.91	.45	.00	.00	22.16
(2)	.05	.19	.05	.33	.53	.24	.24	.10	.86	1.15	1.15	1.10	2.39	.38	.38	.19	.00	.00	9.31
13-18	0	12	5	5	10	2	0	0	0	10	0	0	4	1	2	0	0	0	51
(1)	.00	1.36	.57	.57	1.14	.23	.00	.00	.00	1.14	.00	.00	.45	.11	.23	.00	.00	.00	5.80
(2)	.00	.57	.24	.24	.48	.10	.00	.00	.00	.48	.00	.00	.19	.05	.10	.00	.00	.00	2.43
19-24	0	4	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	12
(1)	.00	.45	.57	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.36
(2)	.00	.19	.24	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.57
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	19	27	14	18	32	19	44	29	51	102	88	161	163	54	43	16	0	0	880
(1)	2.16	3.07	1.59	2.05	3.64	2.16	5.00	3.30	5.80	11.59	10.00	18.30	18.52	6.14	4.89	1.82	.00	.00	100.00
(2)	.91	1.29	.67	.86	1.53	.91	2.10	1.38	2.43	4.87	4.20	7.68	7.78	2.58	2.05	.76	.00	.00	42.00

33.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 6.01	
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
(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	1	1	0	2	8	1	9	7	5	0	1	0	0	0	35
(1)	.00	.00	.00	.00	.79	.79	.00	1.59	6.35	.79	7.14	5.56	3.97	.00	.79	.00	.00	.00	27.78
(2)	.00	.00	.00	.00	.05	.05	.00	.10	.38	.05	.43	.33	.24	.00	.05	.00	.00	.00	1.67
4-7	0	1	0	1	0	0	1	0	4	15	28	11	5	6	0	0	0	0	72
(1)	.00	.79	.00	.79	.00	.00	.79	.00	3.17	11.90	22.22	8.73	3.97	4.76	.00	.00	.00	.00	57.14
(2)	.00	.05	.00	.05	.00	.00	.05	.00	.19	.72	1.34	.53	.24	.29	.00	.00	.00	.00	3.44
8-12	4	2	0	0	0	0	1	0	0	2	4	0	0	2	3	1	0	0	19
(1)	3.17	1.59	.00	.00	.00	.00	.79	.00	.00	1.59	3.17	.00	.00	1.59	2.38	.79	.00	.00	15.08
(2)	.19	.10	.00	.00	.00	.00	.05	.00	.00	.10	.19	.00	.00	.10	.14	.05	.00	.00	.91
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	3	0	1	1	1	2	2	12	18	41	18	10	8	4	1	0	0	126
(1)	3.17	2.38	.00	.79	.79	.79	1.59	1.59	9.52	14.29	32.54	14.29	7.94	6.35	3.17	.79	.00	.00	100.00
(2)	.19	.14	.00	.05	.05	.05	.10	.10	.57	.86	1.96	.86	.48	.38	.19	.05	.00	.00	6.01

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

Table A-1 (continued)

PILGRIM JAN01-MAR01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G															CLASS FREQUENCY (PERCENT) = .24		
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	20.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.00
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.00	.00	.00	60.00	.00	.00	.00	.00	80.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.14	.00	.00	.00	.00	.19
8-12	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
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	1	0	0	0	0	0	0	1	0	0	3	0	0	0	0	5
(1)	.00	.00	.00	20.00	.00	.00	.00	.00	.00	.00	20.00	.00	.00	60.00	.00	.00	.00	.00	100.00
(2)	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	.00	.00	.14	.00	.00	.00	.00	.24

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	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	17	6	5	3	3	9	23	21	26	14	22	38	26	15	18	7	0	253	
(1)	.81	.29	.24	.14	.14	.43	1.10	1.00	1.24	.67	1.05	1.81	1.24	.72	.86	.33	.00	12.08	
(2)	.81	.29	.24	.14	.14	.43	1.10	1.00	1.24	.67	1.05	1.81	1.24	.72	.86	.33	.00	12.08	
4-7	38	32	18	18	32	17	41	22	58	92	104	174	188	151	63	51	0	1099	
(1)	1.81	1.53	.86	.86	1.53	.81	1.96	1.05	2.77	4.39	4.96	8.31	8.97	7.21	3.01	2.43	.00	52.46	
(2)	1.81	1.53	.86	.86	1.53	.81	1.96	1.05	2.77	4.39	4.96	8.31	8.97	7.21	3.01	2.43	.00	52.46	
8-12	6	17	30	22	22	11	11	2	33	55	34	60	181	80	39	7	0	610	
(1)	.29	.81	1.43	1.05	1.05	.53	.53	.10	1.58	2.63	1.62	2.86	8.64	3.82	1.86	.33	.00	29.12	
(2)	.29	.81	1.43	1.05	1.05	.53	.53	.10	1.58	2.63	1.62	2.86	8.64	3.82	1.86	.33	.00	29.12	
13-18	1	15	15	14	10	2	0	0	10	0	1	34	11	4	1	0	0	118	
(1)	.05	.72	.72	.67	.48	.10	.00	.00	.48	.00	.05	1.62	.53	.19	.05	.00	.00	5.63	
(2)	.05	.72	.72	.67	.48	.10	.00	.00	.48	.00	.05	1.62	.53	.19	.05	.00	.00	5.63	
19-24	0	4	8	0	3	0	0	0	0	0	0	0	0	0	0	0	0	15	
(1)	.00	.19	.38	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.72	
(2)	.00	.19	.38	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.72	
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	62	74	76	57	70	39	75	45	117	171	160	273	429	257	124	66	0	2095	
(1)	2.96	3.53	3.63	2.72	3.34	1.86	3.58	2.15	5.58	8.16	7.64	13.03	20.48	12.27	5.92	3.15	.00	100.00	
(2)	2.96	3.53	3.63	2.72	3.34	1.86	3.58	2.15	5.58	8.16	7.64	13.03	20.48	12.27	5.92	3.15	.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 APR01-JUN01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 17.89

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	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	
(1)	.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.00	.27	.00	
(2)	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	
4-7	32	33	27	30	34	12	8	3	4	9	6	9	17	19	7	7	0	
(1)	8.56	8.82	7.22	8.02	9.09	3.21	2.14	.80	1.07	2.41	1.60	2.41	4.55	5.08	1.87	1.87	.00	
(2)	1.53	1.58	1.29	1.44	1.63	.57	.38	.14	.19	.43	.29	.43	.81	.91	.33	.33	.00	
8-12	13	17	4	1	6	3	0	0	25	10	4	1	3	5	5	5	0	
(1)	3.48	4.55	1.07	.27	1.60	.80	.00	.00	6.68	2.67	1.07	.27	.80	1.34	1.34	1.34	.00	
(2)	.62	.81	.19	.05	.29	.14	.00	.00	1.20	.48	.19	.05	.14	.24	.24	.24	.00	
13-18	0	0	0	0	0	0	0	0	7	4	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.87	1.07	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.33	.19	.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	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	47	50	31	31	40	15	8	3	36	23	10	10	20	25	12	13	0	
(1)	12.57	13.37	8.29	8.29	10.70	4.01	2.14	.80	9.63	6.15	2.67	2.67	5.35	6.68	3.21	3.48	.00	
(2)	2.25	2.39	1.48	1.48	1.91	.72	.38	.14	1.72	1.10	.48	.48	.96	1.20	.57	.62	.00	

33.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 4.26

SPEED (MPH)	WIND DIRECTION FROM																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
(1)	1.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.12	.00
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
4-7	2	3	2	5	7	7	2	1	4	3	7	5	3	4	2	0	0
(1)	2.25	3.37	2.25	5.62	7.87	7.87	2.25	1.12	4.49	3.37	7.87	5.62	3.37	4.49	2.25	.00	.00
(2)	.10	.14	.10	.24	.33	.33	.10	.05	.19	.14	.33	.24	.14	.19	.10	.00	.00
8-12	0	9	0	0	2	0	0	0	8	3	5	0	1	1	0	0	0
(1)	.00	10.11	.00	.00	2.25	.00	.00	.00	8.99	3.37	5.62	.00	1.12	1.12	.00	.00	.00
(2)	.00	.43	.00	.00	.10	.00	.00	.00	.38	.14	.24	.00	.05	.05	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	1.12	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.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
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	12	2	5	9	7	2	1	13	6	12	5	4	5	2	1	0
(1)	3.37	13.48	2.25	5.62	10.11	7.87	2.25	1.12	14.61	6.74	13.48	5.62	4.49	5.62	2.25	1.12	.00
(2)	.14	.57	.10	.24	.43	.33	.10	.05	.62	.29	.57	.24	.19	.24	.10	.05	.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 APR01-JUN01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 4.93	
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
(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	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	6
(1)	1.94	.00	.97	.00	.00	.00	.00	.00	.00	.97	.00	.00	.00	.00	1.94	.00	.00	.00	5.83
(2)	.10	.00	.05	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.10	.00	.00	.00	.29
4-7	4	5	5	8	7	9	2	2	6	4	3	2	2	3	2	3	0	0	67
(1)	3.88	4.85	4.85	7.77	6.80	8.74	1.94	1.94	5.83	3.88	2.91	1.94	1.94	2.91	1.94	2.91	0	0	65.05
(2)	.19	.24	.24	.38	.33	.43	.10	.10	.29	.19	.14	.10	.10	.14	.10	.14	.00	.00	3.21
8-12	1	10	0	0	2	0	0	0	9	4	0	0	0	1	1	2	0	0	30
(1)	.97	9.71	.00	.00	1.94	.00	.00	.00	8.74	3.88	.00	.00	.00	.97	.97	1.94	.00	0	29.13
(2)	.05	.48	.00	.00	.10	.00	.00	.00	.43	.19	.00	.00	.00	.05	.05	.10	.00	.00	1.44
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	7	15	6	8	9	9	2	2	15	9	3	2	2	4	5	5	0	0	103
(1)	6.80	14.56	5.83	7.77	8.74	8.74	1.94	1.94	14.56	8.74	2.91	1.94	1.94	3.88	4.85	4.85	.00	.00	100.00
(2)	.33	.72	.29	.38	.43	.43	.10	.10	.72	.43	.14	.10	.10	.19	.24	.24	.00	.00	4.93

33.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 30.10	
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
(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	6	7	4	5	9	7	9	5	2	2	3	4	2	3	13	0	0	87
(1)	.95	.95	1.11	.64	.79	1.43	1.11	1.43	.79	.32	.48	.64	.32	.48	2.07	0	0	0	13.83
(2)	.29	.29	.33	.19	.24	.43	.33	.43	.24	.10	.14	.19	.10	.14	.62	.00	.00	.00	4.16
4-7	9	23	27	25	53	49	31	17	60	47	11	12	9	4	8	9	0	0	394
(1)	1.43	3.66	4.29	3.97	8.43	7.79	4.93	2.70	9.54	7.47	1.75	1.91	1.43	.64	1.27	1.43	.00	.00	62.64
(2)	.43	1.10	1.29	1.20	2.54	2.34	1.48	.81	2.87	2.25	.53	.57	.43	.19	.38	.43	.00	.00	18.85
8-12	12	25	3	0	2	7	3	1	30	37	4	1	4	3	5	4	0	0	141
(1)	1.91	3.97	.48	.00	.32	1.11	.48	.16	4.77	5.88	.64	.16	.64	.48	.79	.64	.00	.00	22.42
(2)	.57	1.20	.14	.00	.10	.33	.14	.05	1.44	1.77	.19	.05	.19	.14	.24	.19	.00	.00	6.75
13-18	1	2	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	7
(1)	.16	.32	.00	.00	.00	.00	.00	.00	.16	.16	.00	.00	.00	.00	.00	.32	.00	.00	1.11
(2)	.05	.10	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.10	.00	.00	.33
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	28	56	37	29	60	65	41	27	96	87	17	16	17	9	16	28	0	0	629
(1)	4.45	8.90	5.88	4.61	9.54	10.33	6.52	4.29	15.26	13.83	2.70	2.54	2.70	1.43	2.54	4.45	.00	.00	100.00
(2)	1.34	2.68	1.77	1.39	2.87	3.11	1.96	1.29	4.59	4.16	.81	.77	.81	.43	.77	1.34	.00	.00	30.10

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

Table A-1 (continued)

PILGRIM APR01-JUN01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 27.85

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	1	0	0	0	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00	.17	.00	.00	.00	.00	.34
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.10
C-3	7	3	5	6	5	17	18	11	17	5	7	3	19	5	9	10	0	147
(1)	1.20	.52	.86	1.03	.86	2.92	3.09	1.89	2.92	.86	1.20	.52	3.26	.86	1.55	1.72	.00	25.26
(2)	.33	.14	.24	.29	.24	.81	.86	.53	.81	.24	.33	.14	.91	.24	.43	.48	.00	7.03
4-7	10	3	3	14	14	14	15	14	30	45	25	40	37	29	17	10	0	320
(1)	1.72	.52	.52	2.41	2.41	2.41	2.58	2.41	5.15	7.73	4.30	6.87	6.36	4.98	2.92	1.72	.00	54.98
(2)	.48	.14	.14	.67	.67	.67	.72	.67	1.44	2.15	1.20	1.91	1.77	1.39	.81	.48	.00	15.31
8-12	8	5	0	0	0	1	2	0	6	59	14	2	4	8	1	1	0	111
(1)	1.37	.86	.00	.00	.00	.17	.34	.00	1.03	10.14	2.41	.34	.69	1.37	.17	.17	.00	19.07
(2)	.38	.24	.00	.00	.00	.05	.10	.00	.29	2.82	.67	.10	.19	.38	.05	.05	.00	5.31
13-18	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	.34	.00	.00	.00	.00	.00	.00	.00	.34
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.10
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	25	11	8	20	19	32	35	25	54	111	46	45	61	42	27	21	0	582
(1)	4.30	1.89	1.37	3.44	3.26	5.50	6.01	4.30	9.28	19.07	7.90	7.73	10.48	7.22	4.64	3.61	.00	100.00
(2)	1.20	.53	.38	.96	.91	1.53	1.67	1.20	2.58	5.31	2.20	2.15	2.92	2.01	1.29	1.00	.00	27.85

33.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 10.10

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
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	2	2	0	2	8	2	4	6	10	9	9	5	3	3	0	66
(1)	.47	.00	.95	.95	.00	.95	3.79	.95	1.90	2.84	4.74	4.27	4.27	2.37	1.42	1.42	.00	31.28
(2)	.05	.00	.10	.10	.00	.10	.38	.10	.19	.29	.48	.43	.43	.24	.14	.14	.00	3.16
4-7	0	0	0	6	0	0	0	0	1	16	34	13	6	8	3	5	0	92
(1)	.00	.00	.00	2.84	.00	.00	.00	.00	.47	7.58	16.11	6.16	2.84	3.79	1.42	2.37	.00	43.60
(2)	.00	.00	.00	.29	.00	.00	.00	.00	.05	.77	1.63	.62	.29	.38	.14	.24	.00	4.40
8-12	0	0	0	0	0	0	0	0	0	24	28	0	0	0	0	0	0	52
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.37	13.27	.00	.00	.00	.00	.00	.00	24.64
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.15	1.34	.00	.00	.00	.00	.00	.00	2.49
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.47	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.47
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	1	1	2	8	0	2	8	2	5	46	72	22	15	13	6	8	0	211
(1)	.47	.47	.95	3.79	.00	.95	3.79	.95	2.37	21.80	34.12	10.43	7.11	6.16	2.84	3.79	.00	100.00
(2)	.05	.05	.10	.38	.00	.10	.38	.10	.24	2.20	3.44	1.05	.72	.62	.29	.38	.00	10.10

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

Table A-1 (continued)

PILGRIM APR01-JUN01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 4.88	
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	3	1	0	4	2	3	0	0	0	0	13
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.94	.98	.00	3.92	1.96	2.94	.00	.00	.00	.00	12.75
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.14	.05	.00	.19	.10	.14	.00	.00	.00	.00	.62
4-7	0	0	0	3	1	0	0	0	0	3	17	9	0	1	0	0	0	0	34
(1)	.00	.00	.00	2.94	.98	.00	.00	.00	.00	2.94	16.67	8.82	.00	.98	.00	.00	.00	.00	33.33
(2)	.00	.00	.00	.14	.05	.00	.00	.00	.00	.14	.81	.43	.00	.05	.00	.00	.00	.00	1.63
8-12	0	0	0	0	0	0	0	0	0	10	41	1	0	0	0	0	0	0	52
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.80	40.20	.98	.00	.00	.00	.00	.00	.00	50.98
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.48	1.96	.05	.00	.00	.00	.00	.00	.00	2.49
13-18	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.94	.00	.00	.00	.00	.00	.00	.00	2.94
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00	.14
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	3	1	0	0	0	3	14	61	14	2	4	0	0	0	0	102
(1)	.00	.00	.00	2.94	.98	.00	.00	.00	2.94	13.73	59.80	13.73	1.96	3.92	.00	.00	.00	.00	100.00
(2)	.00	.00	.00	.14	.05	.00	.00	.00	.14	.67	2.92	.67	.10	.19	.00	.00	.00	.00	4.88

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	1	0	0	0	1	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.10
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.10
C-3	19	9	15	12	10	28	33	22	29	15	19	19	34	16	17	28	0	0	325
(1)	.91	.43	.72	.57	.48	1.34	1.58	1.05	1.39	.72	.91	.91	1.63	.77	.81	1.34	.00	.00	15.55
(2)	.91	.43	.72	.57	.48	1.34	1.58	1.05	1.39	.72	.91	.91	1.63	.77	.81	1.34	.00	.00	15.55
4-7	57	67	64	91	116	91	58	37	105	127	103	90	74	68	39	34	0	0	1221
(1)	2.73	3.21	3.06	4.35	5.55	4.35	2.78	1.77	5.02	6.08	4.93	4.31	3.54	3.25	1.87	1.63	.00	.00	58.42
(2)	2.73	3.21	3.06	4.35	5.55	4.35	2.78	1.77	5.02	6.08	4.93	4.31	3.54	3.25	1.87	1.63	.00	.00	58.42
8-12	34	66	7	1	12	11	5	1	78	147	96	5	12	18	12	12	0	0	517
(1)	1.63	3.16	.33	.05	.57	.53	.24	.05	3.73	7.03	4.59	.24	.57	.86	.57	.57	.00	.00	24.74
(2)	1.63	3.16	.33	.05	.57	.53	.24	.05	3.73	7.03	4.59	.24	.57	.86	.57	.57	.00	.00	24.74
13-18	1	2	0	0	0	0	0	0	9	7	3	0	0	0	0	2	0	0	24
(1)	.05	.10	.00	.00	.00	.00	.00	.00	.43	.33	.14	.00	.00	.00	.00	.10	.00	.00	1.15
(2)	.05	.10	.00	.00	.00	.00	.00	.00	.43	.33	.14	.00	.00	.00	.00	.10	.00	.00	1.15
19-24	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.05	.00	.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
(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	111	145	86	104	138	130	96	60	222	296	221	114	121	102	68	76	0	0	2090
(1)	5.31	6.94	4.11	4.98	6.60	6.22	4.59	2.87	10.62	14.16	10.57	5.45	5.79	4.88	3.25	3.64	.00	.00	100.00
(2)	5.31	6.94	4.11	4.98	6.60	6.22	4.59	2.87	10.62	14.16	10.57	5.45	5.79	4.88	3.25	3.64	.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 JUL01-SEP01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 16.82

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	4	3	2	4	1	0	0	0	1	0	0	1	2	0	3	3	0	
(1)	1.09	.82	.55	1.09	.27	.00	.00	.00	.27	.00	.00	.27	.55	.00	.82	.82	.00	
(2)	.18	.14	.09	.18	.05	.00	.00	.00	.05	.00	.00	.05	.09	.00	.14	.14	.00	
4-7	16	36	33	14	3	7	6	0	18	43	27	17	3	10	6	20	0	
(1)	4.37	9.84	9.02	3.83	.82	1.91	1.64	.00	4.92	11.75	7.38	4.64	.82	2.73	1.64	5.46	.00	
(2)	.74	1.65	1.52	.64	.14	.32	.28	.00	.83	1.98	1.24	.78	.14	.46	.28	.92	.00	
8-12	0	4	0	0	0	0	0	0	15	46	14	1	0	3	0	0	0	
(1)	.00	1.09	.00	.00	.00	.00	.00	.00	4.10	12.57	3.83	.27	.00	.82	.00	.00	.00	
(2)	.00	.18	.00	.00	.00	.00	.00	.00	.69	2.11	.64	.05	.00	.14	.00	.00	.00	
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	20	43	35	18	4	7	6	0	34	89	41	19	5	13	9	23	0	
(1)	5.46	11.75	9.56	4.92	1.09	1.91	1.64	.00	9.29	24.32	11.20	5.19	1.37	3.55	2.46	6.28	.00	
(2)	.92	1.98	1.61	.83	.18	.32	.28	.00	1.56	4.09	1.88	.87	.23	.60	.41	1.06	.00	

33.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 4.46

SPEED (MPH)	WIND DIRECTION FROM																TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	3	2	1	0	1	0	1	0	0	0	0	0	0	1	0	1	0
(1)	3.09	2.06	1.03	.00	1.03	.00	1.03	.00	.00	.00	.00	.00	.00	1.03	.00	1.03	.00
(2)	.14	.09	.05	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00
4-7	2	6	9	8	5	1	3	1	4	4	7	2	4	3	1	0	0
(1)	2.06	6.19	9.28	8.25	5.15	1.03	3.09	1.03	4.12	4.12	7.22	2.06	4.12	3.09	1.03	.00	.00
(2)	.09	.28	.41	.37	.23	.05	.14	.05	.18	.18	.32	.09	.18	.14	.05	.00	.00
8-12	0	5	1	0	0	0	0	0	6	12	3	0	0	0	0	0	0
(1)	.00	5.15	1.03	.00	.00	.00	.00	.00	6.19	12.37	3.09	.00	.00	.00	.00	.00	.00
(2)	.00	.23	.05	.00	.00	.00	.00	.00	.28	.55	.14	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	13	11	8	6	1	4	1	10	16	10	2	4	4	1	1	0
(1)	5.15	13.40	11.34	8.25	6.19	1.03	4.12	1.03	10.31	16.49	10.31	2.06	4.12	4.12	1.03	1.03	.00
(2)	.23	.60	.51	.37	.28	.05	.18	.05	.46	.74	.46	.09	.18	.18	.05	.05	.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 JUL01-SEP01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 4.23	
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
(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	2	0	0	1	0	0	0	0	0	0	0	2	1	2	0	0	9
(1)	1.09	.00	2.17	.00	.00	1.09	.00	.00	.00	.00	.00	.00	.00	2.17	1.09	2.17	.00	.00	9.78
(2)	.05	.00	.09	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.09	.05	.09	.00	.00	.41
4-7	1	1	5	8	8	3	2	0	4	11	8	5	2	1	0	0	0	0	59
(1)	1.09	1.09	5.43	8.70	8.70	3.26	2.17	.00	4.35	11.96	8.70	5.43	2.17	1.09	.00	.00	.00	.00	64.13
(2)	.05	.05	.23	.37	.37	.14	.09	.00	.18	.51	.37	.23	.09	.05	.00	.00	.00	.00	2.71
8-12	0	2	2	0	0	0	0	0	8	9	2	1	0	0	0	0	0	0	24
(1)	.00	2.17	2.17	.00	.00	.00	.00	.00	8.70	9.78	2.17	1.09	.00	.00	.00	.00	.00	.00	26.09
(2)	.00	.09	.09	.00	.00	.00	.00	.00	.37	.41	.09	.05	.00	.00	.00	.00	.00	.00	1.10
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	2	3	9	8	8	4	2	0	12	20	10	6	2	3	1	2	0	0	92
(1)	2.17	3.26	9.78	8.70	8.70	4.35	2.17	.00	13.04	21.74	10.87	6.52	2.17	3.26	1.09	2.17	.00	.00	100.00
(2)	.09	.14	.41	.37	.37	.18	.09	.00	.55	.92	.46	.28	.09	.14	.05	.09	.00	.00	4.23

33.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 26.33	
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
(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	9	3	19	15	10	7	10	6	12	12	8	7	6	11	11	8	0	0	154
(1)	1.57	.52	3.32	2.62	1.75	1.22	1.75	1.05	2.09	2.09	1.40	1.22	1.05	1.92	1.92	1.40	.00	.00	26.88
(2)	.41	.14	.87	.69	.46	.32	.46	.28	.55	.55	.37	.32	.28	.51	.51	.37	.00	.00	7.08
4-7	16	14	14	18	19	15	16	10	62	70	30	12	3	6	4	5	0	0	314
(1)	2.79	2.44	2.44	3.14	3.32	2.62	2.79	1.75	10.82	12.22	5.24	2.09	.52	1.05	.70	.87	.00	.00	54.80
(2)	.74	.64	.64	.83	.87	.69	.74	.46	2.85	3.22	1.38	.55	.14	.28	.18	.23	.00	.00	14.43
8-12	2	20	9	0	0	0	0	4	10	45	3	0	0	0	0	0	0	0	93
(1)	.35	3.49	1.57	.00	.00	.00	.00	.70	1.75	7.85	.52	.00	.00	.00	.00	.00	.00	.00	16.23
(2)	.09	.92	.41	.00	.00	.00	.00	.18	.46	2.07	.14	.00	.00	.00	.00	.00	.00	.00	4.27
13-18	0	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
(1)	.00	.35	1.75	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.09
(2)	.00	.09	.46	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55
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	27	39	52	33	29	22	26	20	84	127	41	19	9	17	15	13	0	0	573
(1)	4.71	6.81	9.08	5.76	5.06	3.84	4.54	3.49	14.66	22.16	7.16	3.32	1.57	2.97	2.62	2.27	.00	.00	100.00
(2)	1.24	1.79	2.39	1.52	1.33	1.01	1.19	.92	3.86	5.84	1.88	.87	.41	.78	.69	.60	.00	.00	26.33

(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 JUL01-SEP01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 33.27	
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
(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	10	10	10	23	13	16	19	20	23	12	6	17	21	21	20	16	0	257	
(1)	1.38	1.38	1.38	3.18	1.80	2.21	2.62	2.76	3.18	1.66	.83	2.35	2.90	2.90	2.76	2.21	.00	35.50	
(2)	.46	.46	.46	1.06	.60	.74	.87	.92	1.06	.55	.28	.78	.97	.97	.92	.74	.00	11.81	
4-7	9	5	2	11	3	5	16	1	61	110	78	37	9	8	11	13	0	379	
(1)	1.24	.69	.28	1.52	.41	.69	2.21	.14	8.43	15.19	10.77	5.11	1.24	1.10	1.52	1.80	.00	52.35	
(2)	.41	.23	.09	.51	.14	.23	.74	.05	2.80	5.06	3.58	1.70	.41	.37	.51	.60	.00	17.42	
8-12	0	1	0	0	0	0	0	0	1	70	12	1	3	0	0	0	0	88	
(1)	.00	.14	.00	.00	.00	.00	.00	.00	.14	9.67	1.66	.14	.41	.00	.00	.00	.00	12.15	
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.05	3.22	.55	.05	.14	.00	.00	.00	.00	4.04	
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	19	16	12	34	16	21	35	21	85	192	96	55	33	29	31	29	0	724	
(1)	2.62	2.21	1.66	4.70	2.21	2.90	4.83	2.90	11.74	26.52	13.26	7.60	4.56	4.01	4.28	4.01	.00	100.00	
(2)	.87	.74	.55	1.56	.74	.97	1.61	.97	3.91	8.82	4.41	2.53	1.52	1.33	1.42	1.33	.00	33.27	

33.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 11.95	
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	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
C-3	1	0	1	2	0	0	1	2	10	24	9	20	8	3	4	0	0	85	
(1)	.38	.00	.38	.77	.00	.00	.38	.77	3.85	9.23	3.46	7.69	3.08	1.15	1.54	.00	.00	32.69	
(2)	.05	.00	.05	.09	.00	.00	.05	.09	.46	1.10	.41	.92	.37	.14	.18	.00	.00	3.91	
4-7	1	0	0	2	1	1	0	0	9	37	73	15	2	1	1	3	0	146	
(1)	.38	.00	.00	.77	.38	.38	.00	.00	3.46	14.23	28.08	5.77	.77	.38	.38	1.15	.00	56.15	
(2)	.05	.00	.00	.09	.05	.05	.00	.00	.41	1.70	3.35	.69	.09	.05	.05	.14	.00	6.71	
8-12	0	0	0	0	0	0	0	0	0	12	17	0	0	0	0	0	0	29	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.62	6.54	.00	.00	.00	.00	.00	.00	11.15	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	.78	.00	.00	.00	.00	.00	.00	1.33	
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	0	1	4	1	1	1	2	19	73	99	35	10	4	5	3	0	260	
(1)	.77	.00	.38	1.54	.38	.38	.38	.77	7.31	28.08	38.08	13.46	3.85	1.54	1.92	1.15	.00	100.00	
(2)	.09	.00	.05	.18	.05	.05	.05	.09	.87	3.35	4.55	1.61	.46	.18	.23	.14	.00	11.95	

(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 JUL01-SEP01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 2.94	
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
(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	2	8	7	2	0	0	0	0	0	21
(1)	.00	.00	.00	.00	.00	1.56	.00	.00	1.56	3.13	12.50	10.94	3.13	.00	.00	.00	.00	.00	32.81
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.05	.09	.37	.32	.09	.00	.00	.00	.00	.00	.97
4-7	0	0	0	0	0	0	0	0	0	13	24	1	0	0	0	0	0	0	38
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.31	37.50	1.56	.00	.00	.00	.00	.00	.00	59.38
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	1.10	.05	.00	.00	.00	.00	.00	.00	1.75
8-12	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.25	1.56	.00	.00	.00	.00	.00	.00	.00	7.81
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.05	.00	.00	.00	.00	.00	.00	.00	.23
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	0	1	0	0	1	19	33	8	2	0	0	0	0	0	64
(1)	.00	.00	.00	.00	.00	1.56	.00	.00	1.56	29.69	51.56	12.50	3.13	.00	.00	.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.00	.05	.00	.00	.05	.87	1.52	.37	.09	.00	.00	.00	.00	.00	2.94

33.0 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
(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	28	18	35	44	25	25	31	28	47	50	31	52	39	38	39	30	0	560	
(1)	1.29	.83	1.61	2.02	1.15	1.15	1.42	1.29	2.16	2.30	1.42	2.39	1.79	1.75	1.79	1.38	.00	25.74	
(2)	1.29	.83	1.61	2.02	1.15	1.15	1.42	1.29	2.16	2.30	1.42	2.39	1.79	1.75	1.79	1.38	.00	25.74	
4-7	45	62	63	61	39	32	43	12	158	288	247	89	23	29	23	41	0	1255	
(1)	2.07	2.85	2.90	2.80	1.79	1.47	1.98	.55	7.26	13.24	11.35	4.09	1.06	1.33	1.06	1.88	.00	57.67	
(2)	2.07	2.85	2.90	2.80	1.79	1.47	1.98	.55	7.26	13.24	11.35	4.09	1.06	1.33	1.06	1.88	.00	57.67	
8-12	2	32	12	0	0	0	0	4	40	198	52	3	3	3	0	0	0	349	
(1)	.09	1.47	.55	.00	.00	.00	.00	.18	1.84	9.10	2.39	.14	.14	.14	.00	.00	.00	16.04	
(2)	.09	1.47	.55	.00	.00	.00	.00	.18	1.84	9.10	2.39	.14	.14	.14	.00	.00	.00	16.04	
13-18	0	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
(1)	.00	.09	.46	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	
(2)	.00	.09	.46	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	75	114	120	105	64	57	74	44	245	536	330	144	65	70	62	71	0	2176	
(1)	3.45	5.24	5.51	4.83	2.94	2.62	3.40	2.02	11.26	24.63	15.17	6.62	2.99	3.22	2.85	3.26	.00	100.00	
(2)	3.45	5.24	5.51	4.83	2.94	2.62	3.40	2.02	11.26	24.63	15.17	6.62	2.99	3.22	2.85	3.26	.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 OCT01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 8.28	
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
(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	1	0	2	0	0	0	0	0	0	0	0	1	1	2	3	0	0	11
(1)	.60	.60	.00	1.19	.00	.00	.00	.00	.00	.00	.00	.00	.60	.60	1.19	1.79	.00	.00	6.55
(2)	.05	.05	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.10	.15	.00	.00	.54
4-7	7	8	2	3	1	0	2	0	2	8	9	6	11	10	8	9	0	0	86
(1)	4.17	4.76	1.19	1.79	.60	.00	1.19	.00	1.19	4.76	5.36	3.57	6.55	5.95	4.76	5.36	.00	.00	51.19
(2)	.35	.39	.10	.15	.05	.00	.10	.00	.10	.39	.44	.30	.54	.49	.39	.44	.00	.00	4.24
8-12	6	6	0	0	0	0	1	1	5	11	14	2	3	7	13	2	0	0	71
(1)	3.57	3.57	.00	.00	.00	.00	.60	.60	2.98	6.55	8.33	1.19	1.79	4.17	7.74	1.19	.00	.00	42.26
(2)	.30	.30	.00	.00	.00	.00	.05	.05	.25	.54	.69	.10	.15	.35	.64	.10	.00	.00	3.50
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	14	15	2	5	1	0	3	1	7	19	23	8	15	18	23	14	0	0	168
(1)	8.33	8.93	1.19	2.98	.60	.00	1.79	.60	4.17	11.31	13.69	4.76	8.93	10.71	13.69	8.33	.00	.00	100.00
(2)	.69	.74	.10	.25	.05	.00	.15	.05	.35	.94	1.13	.39	.74	.89	1.13	.69	.00	.00	8.28

33.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 4.83	
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	2	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.04	.00	.00	.00	.00	.00	2.04
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.10
C-3	1	0	0	1	0	0	0	0	0	1	0	1	3	0	1	2	0	0	10
(1)	1.02	.00	.00	1.02	.00	.00	.00	.00	.00	1.02	.00	1.02	3.06	.00	1.02	2.04	.00	.00	10.20
(2)	.05	.00	.00	.05	.00	.00	.00	.00	.00	.05	.00	.05	.15	.00	.05	.10	.00	.00	.49
4-7	0	1	1	3	0	0	2	0	5	4	8	5	5	2	1	1	0	0	38
(1)	.00	1.02	1.02	3.06	.00	.00	2.04	.00	5.10	4.08	8.16	5.10	5.10	2.04	1.02	1.02	.00	.00	38.78
(2)	.00	.05	.05	.15	.00	.00	.10	.00	.25	.20	.39	.25	.25	.10	.05	.05	.00	.00	1.87
8-12	2	4	4	0	0	0	1	2	1	11	6	6	5	3	3	0	0	0	48
(1)	2.04	4.08	4.08	.00	.00	.00	1.02	2.04	1.02	11.22	6.12	6.12	5.10	3.06	3.06	.00	.00	.00	48.98
(2)	.10	.20	.20	.00	.00	.00	.05	.10	.05	.54	.30	.30	.25	.15	.15	.00	.00	.00	2.37
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	3	5	5	4	0	0	3	2	6	16	14	14	13	5	5	3	0	0	98
(1)	3.06	5.10	5.10	4.08	.00	.00	3.06	2.04	6.12	16.33	14.29	14.29	13.27	5.10	5.10	3.06	.00	.00	100.00
(2)	.15	.25	.25	.20	.00	.00	.15	.10	.30	.79	.69	.69	.64	.25	.25	.15	.00	.00	4.83

(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 OCT01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 5.13	
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
(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	1	0	0	0	0	0	0	1	1	4	2	0	3	0	13	
(1)	.96	.00	.00	.96	.00	.00	.00	.00	.00	.00	.96	.96	3.85	1.92	.00	2.88	.00	12.50	
(2)	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	.05	.20	.10	.00	.15	.00	.64	
4-7	2	1	1	2	1	1	5	0	0	10	9	5	4	4	1	1	0	47	
(1)	1.92	.96	.96	1.92	.96	.96	4.81	.00	.00	9.62	8.65	4.81	3.85	3.85	.96	.96	.00	45.19	
(2)	.10	.05	.05	.10	.05	.05	.25	.00	.00	.49	.44	.25	.20	.20	.05	.05	.00	2.32	
8-12	2	1	11	1	0	0	0	0	3	9	4	3	3	2	2	1	0	42	
(1)	1.92	.96	10.58	.96	.00	.00	.00	.00	2.88	8.65	3.85	2.88	2.88	1.92	1.92	.96	.00	40.38	
(2)	.10	.05	.54	.05	.00	.00	.00	.00	.15	.44	.20	.15	.15	.10	.10	.05	.00	2.07	
13-18	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	
(1)	.00	.96	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.96	.00	.00	.00	.00	1.92	
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.10	
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ALL SPEEDS	5	3	12	4	1	1	5	0	3	19	14	9	12	8	3	5	0	104	
(1)	4.81	2.88	11.54	3.85	.96	.96	4.81	.00	2.88	18.27	13.46	8.65	11.54	7.69	2.88	4.81	.00	100.00	
(2)	.25	.15	.59	.20	.05	.05	.25	.00	.15	.94	.69	.44	.59	.39	.15	.25	.00	5.13	

33.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 35.95	
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	WIND DIRECTION FROM										VRBL	TOTAL	
							SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
CALM	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	
(1)	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.14	.00	.00	.41	
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.00	.15	
C-3	2	8	6	10	11	8	8	1	11	10	17	5	3	9	3	3	0	115	
(1)	.27	1.10	.82	1.37	1.51	1.10	1.10	.14	1.51	1.37	2.33	.69	.41	1.23	.41	.41	.00	15.78	
(2)	.10	.39	.30	.49	.54	.39	.39	.05	.54	.49	.84	.25	.15	.44	.15	.15	.00	5.67	
4-7	9	4	1	4	14	14	16	11	42	62	33	47	23	16	25	5	0	326	
(1)	1.23	.55	.14	.55	1.92	1.92	2.19	1.51	5.76	8.50	4.53	6.45	3.16	2.19	3.43	.69	.00	44.72	
(2)	.44	.20	.05	.20	.69	.69	.79	.54	2.07	3.06	1.63	2.32	1.13	.79	1.23	.25	.00	16.07	
8-12	3	22	11	12	3	2	2	6	29	76	12	14	21	16	46	6	0	281	
(1)	.41	3.02	1.51	1.65	.41	.27	.27	.82	3.98	10.43	1.65	1.92	2.88	2.19	6.31	.82	.00	38.55	
(2)	.15	1.08	.54	.59	.15	.10	.10	.30	1.43	3.75	.59	.69	1.04	.79	2.27	.30	.00	13.86	
13-18	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	4	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.14	.27	.00	.00	.00	.00	.14	.00	.00	.55	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.10	.00	.00	.00	.00	.05	.00	.00	.20	
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	34	18	26	28	24	26	18	83	150	63	66	47	41	76	14	0	729	
(1)	2.06	4.66	2.47	3.57	3.84	3.29	3.57	2.47	11.39	20.58	8.64	9.05	6.45	5.62	10.43	1.92	.00	100.00	
(2)	.74	1.68	.89	1.28	1.38	1.18	1.28	.89	4.09	7.40	3.11	3.25	2.32	2.02	3.75	.69	.00	35.95	

(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 OCT01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 37.87

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	2	0	0	1	1	0	0	3	3	0	1	0	1	0	0	0	12
(1)	.00	.26	.00	.00	.13	.13	.00	.00	.39	.39	.00	.13	.00	.13	.00	.00	.00	1.56
(2)	.00	.10	.00	.00	.05	.05	.00	.00	.15	.15	.00	.05	.00	.05	.00	.00	.00	.59
C-3	3	2	6	1	2	11	11	12	21	18	21	35	19	15	5	6	0	188
(1)	.39	.26	.78	.13	.26	1.43	1.43	1.56	2.73	2.34	2.73	4.56	2.47	1.95	.65	.78	.00	24.48
(2)	.15	.10	.30	.05	.10	.54	.54	.59	1.04	.89	1.04	1.73	.94	.74	.25	.30	.00	9.27
4-7	7	1	0	0	2	0	11	30	37	82	71	116	50	31	19	7	0	464
(1)	.91	.13	.00	.00	.26	.00	1.43	3.91	4.82	10.68	9.24	15.10	6.51	4.04	2.47	.91	.00	60.42
(2)	.35	.05	.00	.00	.10	.00	.54	1.48	1.82	4.04	3.50	5.72	2.47	1.53	.94	.35	.00	22.88
8-12	0	0	0	0	0	0	0	0	5	33	22	22	6	11	5	0	0	104
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.65	4.30	2.86	2.86	.78	1.43	.65	.00	.00	13.54
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.25	1.63	1.08	1.08	.30	.54	.25	.00	.00	5.13
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	10	5	6	1	5	12	22	42	66	136	114	174	75	58	29	13	0	768
(1)	1.30	.65	.78	.13	.65	1.56	2.86	5.47	8.59	17.71	14.84	22.66	9.77	7.55	3.78	1.69	.00	100.00
(2)	.49	.25	.30	.05	.25	.59	1.08	2.07	3.25	6.71	5.62	8.58	3.70	2.86	1.43	.64	.00	37.87

33.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 6.26

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	1	1	2	1	0	3	2	0	0	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.79	.79	1.57	.79	.00	2.36	1.57	.00	.00	.00	7.87
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.05	.10	.05	.00	.15	.10	.00	.00	.00	.49
C-3	0	0	0	0	0	0	4	5	7	15	15	14	1	1	0	0	0	62
(1)	.00	.00	.00	.00	.00	.00	3.15	3.94	5.51	11.81	11.81	11.02	.79	.79	.00	.00	.00	48.82
(2)	.00	.00	.00	.00	.00	.00	.20	.25	.35	.74	.74	.69	.05	.05	.00	.00	.00	3.06
4-7	0	0	0	0	0	0	1	3	3	13	22	13	0	0	0	0	0	55
(1)	.00	.00	.00	.00	.00	.00	.79	2.36	2.36	10.24	17.32	10.24	.00	.00	.00	.00	.00	43.31
(2)	.00	.00	.00	.00	.00	.00	.05	.15	.15	.64	1.08	.64	.00	.00	.00	.00	.00	2.71
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	0	0	5	9	11	30	38	27	4	3	0	0	0	127
(1)	.00	.00	.00	.00	.00	.00	3.94	7.09	8.66	23.62	29.92	21.26	3.15	2.36	.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.00	.00	.25	.44	.54	1.48	1.87	1.33	.20	.15	.00	.00	.00	6.26

(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 OCT01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

33.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 1.68	
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	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	2.94	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.94
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
C-3	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.88	2.94	.00	.00	.00	.00	.00	.00	8.82
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.05	.00	.00	.00	.00	.00	.00	.15
4-7	0	0	0	0	0	0	0	0	0	6	13	9	0	0	0	0	0	0	28
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	17.65	38.24	26.47	.00	.00	.00	.00	.00	.00	82.35
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.64	.44	.00	.00	.00	.00	.00	.00	1.38
8-12	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.88	.00	.00	.00	.00	.00	.00	.00	.00	5.88
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.10
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	0	0	1	0	0	8	15	10	0	0	0	0	0	0	34
(1)	.00	.00	.00	.00	.00	.00	2.94	.00	.00	23.53	44.12	29.41	.00	.00	.00	.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.00	.00	.05	.00	.00	.39	.74	.49	.00	.00	.00	.00	.00	.00	1.68

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	1	2	0	0	1	1	1	1	4	5	2	3	3	3	1	0	0	0	28
(1)	.05	.10	.00	.00	.05	.05	.05	.05	.20	.25	.10	.15	.15	.15	.05	.00	.00	.00	1.38
(2)	.05	.10	.00	.00	.05	.05	.05	.05	.20	.25	.10	.15	.15	.15	.05	.00	.00	.00	1.38
C-3	8	11	12	15	13	19	23	18	39	44	56	57	31	28	11	17	0	402	
(1)	.39	.54	.59	.74	.64	.94	1.13	.89	1.92	2.17	2.76	2.81	1.53	1.38	.54	.84	.00	19.82	
(2)	.39	.54	.59	.74	.64	.94	1.13	.89	1.92	2.17	2.76	2.81	1.53	1.38	.54	.84	.00	19.82	
4-7	25	15	5	12	18	15	37	44	89	185	165	201	93	63	54	23	0	1044	
(1)	1.23	.74	.25	.59	.89	.74	1.82	2.17	4.39	9.12	8.14	9.91	4.59	3.11	2.66	1.13	.00	51.48	
(2)	1.23	.74	.25	.59	.89	.74	1.82	2.17	4.39	9.12	8.14	9.91	4.59	3.11	2.66	1.13	.00	51.48	
8-12	13	33	26	13	3	2	4	9	43	142	58	47	38	39	69	9	0	548	
(1)	.64	1.63	1.28	.64	.15	.10	.20	.44	2.12	7.00	2.86	2.32	1.87	1.92	3.40	.44	.00	27.02	
(2)	.64	1.63	1.28	.64	.15	.10	.20	.44	2.12	7.00	2.86	2.32	1.87	1.92	3.40	.44	.00	27.02	
13-18	0	1	0	0	0	0	0	0	1	2	0	0	1	0	1	0	0	6	
(1)	.00	.05	.00	.00	.00	.00	.00	.00	.05	.10	.00	.00	.05	.00	.05	.00	.00	.30	
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.05	.10	.00	.00	.05	.00	.05	.00	.00	.30	
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	47	62	43	40	35	37	65	72	176	378	281	308	166	133	136	49	0	2028	
(1)	2.32	3.06	2.12	1.97	1.73	1.82	3.21	3.55	8.68	18.64	13.86	15.19	8.19	6.56	6.71	2.42	.00	100.00	
(2)	2.32	3.06	2.12	1.97	1.73	1.82	3.21	3.55	8.68	18.64	13.86	15.19	8.19	6.56	6.71	2.42	.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 JAN01-MAR01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS A																CLASS FREQUENCY (PERCENT) = 9.79	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.00	.49	.00	.49	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.05	.00
4-7	0	1	3	0	0	0	0	0	0	0	0	0	1	4	3	1	0	1	0
(1)	.00	.49	1.47	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	1.96	1.47	.49	.00	.49	.00
(2)	.00	.05	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.19	.14	.05	.00	.05	.00
8-12	6	5	3	0	4	0	0	1	0	1	0	4	11	16	5	3	0	0	0
(1)	2.94	2.45	1.47	.00	1.96	.00	.00	.49	.00	.49	.00	1.96	5.39	7.84	2.45	1.47	.00	.00	.00
(2)	.29	.24	.14	.00	.19	.00	.00	.05	.00	.05	.00	.19	.53	.77	.24	.14	.00	.00	.00
13-18	3	1	6	0	1	1	1	0	0	2	3	2	11	14	9	14	0	0	0
(1)	1.47	.49	2.94	.00	.49	.49	.49	.00	.00	.98	1.47	.98	5.39	6.86	4.41	6.86	.00	.00	.00
(2)	.14	.05	.29	.00	.05	.05	.05	.00	.00	.10	.14	.10	.53	.67	.43	.67	.00	.00	.00
19-24	0	0	1	0	0	0	0	0	1	4	3	2	11	17	1	0	0	0	0
(1)	.00	.00	.49	.00	.00	.00	.00	.00	.49	1.96	1.47	.98	5.39	8.33	.49	.00	.00	.00	.00
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.05	.19	.14	.10	.53	.82	.05	.00	.00	.00	.00
GT 24	0	0	2	0	0	0	0	0	0	0	0	0	2	14	3	1	0	0	0
(1)	.00	.00	.98	.00	.00	.00	.00	.00	.00	.00	.00	.00	.98	6.86	1.47	.49	.00	.00	.00
(2)	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.67	.14	.05	.00	.00	.00
ALL SPEEDS	9	7	15	0	5	1	1	1	1	7	6	8	36	66	21	20	0	0	0
(1)	4.41	3.43	7.35	.00	2.45	.49	.49	.49	.49	3.43	2.94	3.92	17.65	32.35	10.29	9.80	.00	.00	.00
(2)	.43	.34	.72	.00	.24	.05	.05	.05	.05	.34	.29	.38	1.73	3.17	1.01	.96	.00	.00	.00

220.0 FT WIND DATA		STABILITY CLASS B																CLASS FREQUENCY (PERCENT) = 4.03	
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	6	0	2	2	1	0	0	0	0	0	0	0	0	0	2	2	0	0	0
(1)	7.14	.00	2.38	2.38	1.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.38	2.38	.00	.00	.00
(2)	.29	.00	.10	.10	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.10	.00	.00	.00
8-12	0	0	0	0	1	1	1	0	5	2	0	2	3	0	0	1	0	0	0
(1)	.00	.00	.00	.00	1.19	1.19	1.19	.00	5.95	2.38	.00	2.38	3.57	.00	.00	1.19	.00	.00	.00
(2)	.00	.00	.00	.00	.05	.05	.05	.00	.24	.10	.00	.10	.14	.00	.00	.05	.00	.00	.00
13-18	3	3	4	0	1	1	0	0	1	1	1	3	7	3	1	1	0	0	0
(1)	3.57	3.57	4.76	.00	1.19	1.19	.00	.00	1.19	1.19	3.57	8.33	3.57	1.19	1.19	.00	.00	.00	.00
(2)	.14	.14	.19	.00	.05	.05	.00	.00	.05	.05	.14	.34	.14	.05	.05	.00	.00	.00	.00
19-24	0	0	0	0	1	0	0	0	0	3	0	0	7	2	1	2	0	0	0
(1)	.00	.00	.00	.00	1.19	.00	.00	.00	.00	3.57	.00	.00	8.33	2.38	1.19	2.38	.00	.00	.00
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.14	.00	.00	.34	.10	.05	.10	.00	.00	.00
GT 24	0	0	1	0	0	0	0	0	0	0	0	0	0	5	1	1	0	0	0
(1)	.00	.00	1.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.95	1.19	1.19	.00	.00	.00
(2)	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.05	.05	.00	.00	.00
ALL SPEEDS	9	3	7	2	4	2	1	0	5	6	1	5	17	10	5	7	0	0	0
(1)	10.71	3.57	8.33	2.38	4.76	2.38	1.19	.00	5.95	7.14	1.19	5.95	20.24	11.90	5.95	8.33	.00	.00	.00
(2)	.43	.14	.34	.10	.19	.10	.05	.00	.24	.29	.05	.24	.82	.48	.24	.34	.00	.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-2 (continued)

PILGRIM JAN01-MAR01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = .24	
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	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.00	.00	.00	.00	.00	.00	.00	.00	.00	20.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05
8-12	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.00	.00	.00	20.00	.00	.00	40.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.00	.00	.10
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	1	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.00	.00	.00	.00	20.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05
GT 24	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	20.00	.00	.00	.00	20.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05
ALL SPEEDS	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	1	0	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	20.00	.00	.00	.00	20.00	.00	40.00	20.00	.00	.00	100.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.10	.05	.00	.00	.24

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	2	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
(2)	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
C-3	2	5	3	1	1	0	2	2	0	1	0	0	2	2	2	3	0	0	26
(1)	.10	.24	.14	.05	.05	.00	.10	.10	.00	.05	.00	.00	.10	.10	.10	.14	.00	.00	1.25
(2)	.10	.24	.14	.05	.05	.00	.10	.10	.00	.05	.00	.00	.10	.10	.10	.14	.00	.00	1.25
4-7	12	17	9	16	9	15	7	7	10	7	11	7	7	13	15	10	0	0	172
(1)	.58	.82	.43	.77	.43	.72	.34	.34	.48	.34	.53	.34	.34	.62	.72	.48	.00	.00	8.26
(2)	.58	.82	.43	.77	.43	.72	.34	.34	.48	.34	.53	.34	.34	.62	.72	.48	.00	.00	8.26
8-12	17	17	10	7	10	18	31	21	41	35	30	40	51	77	37	17	0	0	459
(1)	.82	.82	.48	.34	.48	.86	1.49	1.01	1.97	1.68	1.44	1.92	2.45	3.70	1.78	.82	.00	.00	22.04
(2)	.82	.82	.48	.34	.48	.86	1.49	1.01	1.97	1.68	1.44	1.92	2.45	3.70	1.78	.82	.00	.00	22.04
13-18	25	17	26	16	16	12	21	12	19	37	61	108	129	101	53	37	0	0	690
(1)	1.20	.82	1.25	.77	.77	.58	1.01	.58	.91	1.78	2.93	5.18	6.19	4.85	2.54	1.78	.00	.00	33.13
(2)	1.20	.82	1.25	.77	.77	.58	1.01	.58	.91	1.78	2.93	5.18	6.19	4.85	2.54	1.78	.00	.00	33.13
19-24	8	2	8	17	16	8	6	3	3	39	51	53	88	74	40	13	0	0	429
(1)	.38	.10	.38	.82	.77	.38	.29	.14	.14	1.87	2.45	2.54	4.22	3.55	1.92	.62	.00	.00	20.60
(2)	.38	.10	.38	.82	.77	.38	.29	.14	.14	1.87	2.45	2.54	4.22	3.55	1.92	.62	.00	.00	20.60
GT 24	7	15	25	17	20	4	1	1	0	10	4	4	48	99	41	9	0	0	305
(1)	.34	.72	1.20	.82	.96	.19	.05	.05	.00	.48	.19	.19	2.30	4.75	1.97	.43	.00	.00	14.64
(2)	.34	.72	1.20	.82	.96	.19	.05	.05	.00	.48	.19	.19	2.30	4.75	1.97	.43	.00	.00	14.64
ALL SPEEDS	71	73	81	74	72	57	70	46	73	129	157	212	325	366	188	89	0	0	2083
(1)	3.41	3.50	3.89	3.55	3.46	2.74	3.36	2.21	3.50	6.19	7.54	10.18	15.60	17.57	9.03	4.27	.00	.00	100.00
(2)	3.41	3.50	3.89	3.55	3.46	2.74	3.36	2.21	3.50	6.19	7.54	10.18	15.60	17.57	9.03	4.27	.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 APR01-JUN01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 5.05		
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	2	5	2	2	1	1	0	0	0	1	2	0	1	1	2	2	0	0	0	22
(1)	1.89	4.72	1.89	1.89	.94	.94	.00	.00	.00	.94	1.89	.00	.94	.94	1.89	1.89	.00	.00	.00	20.75
(2)	.10	.24	.10	.10	.05	.05	.00	.00	.00	.05	.10	.00	.05	.05	.10	.10	.00	.00	.00	1.05
8-12	1	0	2	1	4	9	1	2	3	1	2	0	1	2	0	1	0	0	0	30
(1)	.94	.00	1.89	.94	3.77	8.49	.94	1.89	2.83	.94	1.89	.00	.94	1.89	.00	.94	.00	.94	.00	28.30
(2)	.05	.00	.10	.05	.19	.43	.05	.10	.14	.05	.10	.00	.05	.10	.00	.05	.00	.05	.00	1.43
13-18	0	5	1	0	1	4	1	1	7	5	2	3	0	1	1	1	0	0	0	33
(1)	.00	4.72	.94	.00	.94	3.77	.94	.94	6.60	4.72	1.89	2.83	.00	.94	.94	.94	.00	.00	.00	31.13
(2)	.00	.24	.05	.00	.05	.19	.05	.05	.33	.24	.10	.14	.00	.05	.05	.05	.00	.00	.00	1.57
19-24	1	5	0	0	0	0	0	0	1	3	0	0	0	3	0	3	0	0	0	16
(1)	.94	4.72	.00	.00	.00	.00	.00	.00	.94	2.83	.00	.00	.00	2.83	.00	2.83	.00	2.83	.00	15.09
(2)	.05	.24	.00	.00	.00	.00	.00	.00	.05	.14	.00	.00	.00	.14	.00	.14	.00	.14	.00	.76
GT 24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	5
(1)	.94	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.94	2.83	.00	.00	.00	4.72
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.00	.00	.00	.24
ALL SPEEDS	5	15	5	3	6	14	2	3	11	10	6	3	2	7	4	10	0	0	0	106
(1)	4.72	14.15	4.72	2.83	5.66	13.21	1.89	2.83	10.38	9.43	5.66	2.83	1.89	6.60	3.77	9.43	.00	.00	.00	100.00
(2)	.24	.71	.24	.14	.29	.67	.10	.14	.52	.48	.29	.14	.10	.33	.19	.48	.00	.00	.00	5.05

220.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 30.10		
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	3	0	1	0	0	0	2	1	0	0	0	0	3	0	1	0	0	0	0	11
(1)	.47	.00	.16	.00	.00	.00	.32	.16	.00	.00	.00	.00	.47	.00	.16	.00	.00	.00	.00	1.74
(2)	.14	.00	.05	.00	.00	.00	.10	.05	.00	.00	.00	.00	.14	.00	.05	.00	.00	.00	.00	.52
4-7	10	7	2	12	8	15	14	4	3	3	3	2	1	3	5	4	0	0	0	96
(1)	1.58	1.11	.32	1.90	1.27	2.37	2.22	.63	.47	.47	.47	.32	.16	.47	.79	.63	.00	.00	.00	15.19
(2)	.48	.33	.10	.57	.38	.71	.67	.19	.14	.14	.14	.10	.05	.14	.24	.19	.00	.00	.00	4.57
8-12	4	16	9	10	13	23	22	12	14	26	7	3	4	1	1	11	0	0	0	176
(1)	.63	2.53	1.42	1.58	2.06	3.64	3.48	1.90	2.22	4.11	1.11	.47	.63	.16	.16	1.74	.00	.00	.00	27.85
(2)	.19	.76	.43	.48	.62	1.10	1.05	.57	.67	1.24	.33	.14	.19	.05	.05	.52	.00	.00	.00	8.38
13-18	8	8	9	2	19	25	16	7	39	60	8	4	9	6	1	2	0	0	0	223
(1)	1.27	1.27	1.42	.32	3.01	3.96	2.53	1.11	6.17	9.49	1.27	.63	1.42	.95	.16	.32	.00	.00	.00	35.28
(2)	.38	.38	.43	.10	.90	1.19	.76	.33	1.86	2.86	.38	.19	.43	.29	.05	.10	.00	.00	.00	10.62
19-24	7	13	4	1	1	4	8	0	7	27	1	2	2	5	4	8	0	0	0	94
(1)	1.11	2.06	.63	.16	.16	.63	1.27	.00	1.11	4.27	.16	.32	.32	.79	.63	1.27	.00	.00	.00	14.87
(2)	.33	.62	.19	.05	.05	.19	.38	.00	.33	1.29	.05	.10	.10	.24	.19	.38	.00	.00	.00	4.48
GT 24	11	2	0	0	1	0	0	0	0	2	0	0	0	3	5	8	0	0	0	32
(1)	1.74	.32	.00	.00	.16	.00	.00	.00	.00	.32	.00	.00	.00	.47	.79	1.27	.00	.00	.00	5.06
(2)	.52	.10	.00	.00	.05	.00	.00	.00	.00	.10	.00	.00	.00	.14	.24	.38	.00	.00	.00	1.52
ALL SPEEDS	43	46	25	25	42	67	62	24	63	118	19	11	19	18	17	33	0	0	0	632
(1)	6.80	7.28	3.96	3.96	6.65	10.60	9.81	3.80	9.97	18.67	3.01	1.74	3.01	2.85	2.69	5.22	.00	.00	.00	100.00
(2)	2.05	2.19	1.19	1.19	2.00	3.19	2.95	1.14	3.00	5.62	.90	.52	.90	.86	.81	1.57	.00	.00	.00	30.10

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

Table A-2 (continued)

PILGRIM APR01-JUN01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS E															CLASS FREQUENCY (PERCENT) = 27.76			
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	WIND DIRECTION FROM					SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
								SSE	S	SSW	SS	SSSE								
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	2	1	1	2	1	1	1	1	1	0	1	0	0	0	1	0	16	16
(1)	.34	.34	.34	.17	.17	.34	.17	.17	.17	.17	.17	.00	.17	.00	.00	.00	.17	.00	2.74	2.74
(2)	.10	.10	.10	.05	.05	.10	.05	.05	.05	.05	.05	.00	.05	.00	.00	.00	.05	.00	.76	.76
4-7	2	1	2	3	6	12	9	5	9	2	4	3	3	4	5	2	0	16	72	72
(1)	.34	.17	.34	.51	1.03	2.06	1.54	.86	1.54	.34	.69	.51	.51	.69	.86	.34	.00	12.35	12.35	12.35
(2)	.10	.05	.10	.14	.29	.57	.43	.24	.43	.10	.19	.14	.14	.19	.24	.10	.00	3.43	3.43	3.43
8-12	4	1	1	1	5	25	16	8	19	12	10	4	1	12	4	10	0	133	133	133
(1)	.69	.17	.17	.17	.86	4.29	2.74	1.37	3.26	2.06	1.72	.69	.17	2.06	.69	1.72	.00	22.81	22.81	22.81
(2)	.19	.05	.05	.05	.24	1.19	.76	.38	.90	.57	.48	.19	.05	.57	.19	.48	.00	6.33	6.33	6.33
13-18	5	4	1	0	1	2	10	13	9	44	17	16	23	18	19	13	0	195	195	195
(1)	.86	.69	.17	.00	.17	.34	1.72	2.23	1.54	7.55	2.92	2.74	3.95	3.09	3.26	2.23	.00	33.45	33.45	33.45
(2)	.24	.19	.05	.00	.05	.10	.48	.62	.43	2.10	.81	.76	1.10	.86	.90	.62	.00	9.29	9.29	9.29
19-24	5	1	0	0	0	0	5	1	2	59	6	5	7	16	15	10	0	132	132	132
(1)	.86	.17	.00	.00	.00	.00	.86	.17	.34	10.12	1.03	.86	1.20	2.74	2.57	1.72	.00	22.64	22.64	22.64
(2)	.24	.05	.00	.00	.00	.00	.24	.05	.10	2.81	.29	.24	.33	.76	.71	.48	.00	6.29	6.29	6.29
GT 24	3	1	0	0	0	0	0	0	0	12	5	0	1	10	1	2	0	35	35	35
(1)	.51	.17	.00	.00	.00	.00	.00	.00	.00	2.06	.86	.00	.17	1.72	.17	.34	.00	6.00	6.00	6.00
(2)	.14	.05	.00	.00	.00	.00	.00	.00	.00	.57	.24	.00	.05	.48	.05	.10	.00	1.67	1.67	1.67
ALL SPEEDS	21	10	6	5	13	41	41	28	40	130	42	29	35	60	44	38	0	583	583	583
(1)	3.60	1.72	1.03	.86	2.23	7.03	7.03	4.80	6.86	22.30	7.20	4.97	6.00	10.29	7.55	6.52	.00	100.00	100.00	100.00
(2)	1.00	.48	.29	.24	.62	1.95	1.95	1.33	1.90	6.19	2.00	1.38	1.67	2.86	2.10	1.81	.00	27.76	27.76	27.76

220.0 FT WIND DATA		STABILITY CLASS F															CLASS FREQUENCY (PERCENT) = 10.05			
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	WIND DIRECTION FROM					SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
								SSE	S	SSW	SS	SSSE								
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	1	1	1	1	0	3	0	0	0	0	0	0	0	7	7
(1)	.00	.00	.00	.00	.00	.47	.47	.47	.47	.00	1.42	.00	.00	.00	.00	.00	.00	.00	3.32	3.32
(2)	.00	.00	.00	.00	.00	.05	.05	.05	.05	.00	.14	.00	.00	.00	.00	.00	.00	.00	.33	.33
4-7	0	0	1	2	0	1	4	5	6	2	1	2	3	0	0	0	0	27	27	27
(1)	.00	.00	.47	.95	.00	.47	1.90	2.37	2.84	.95	.47	.95	1.42	.00	.00	.00	.00	12.80	12.80	12.80
(2)	.00	.00	.05	.10	.00	.05	.19	.24	.29	.10	.05	.10	.14	.00	.00	.00	.00	1.29	1.29	1.29
8-12	0	0	0	0	2	4	2	6	1	8	0	5	6	0	2	3	0	39	39	39
(1)	.00	.00	.00	.00	.95	1.90	.95	2.84	.47	3.79	.00	2.37	2.84	.00	.95	1.42	.00	18.48	18.48	18.48
(2)	.00	.00	.00	.00	.10	.19	.10	.29	.05	.38	.00	.24	.29	.00	.10	.14	.00	1.86	1.86	1.86
13-18	1	0	1	0	0	0	0	0	0	8	13	19	8	9	6	9	0	74	74	74
(1)	.47	.00	.47	.00	.00	.00	.00	.00	.00	3.79	6.16	9.00	3.79	4.27	2.84	4.27	.00	35.07	35.07	35.07
(2)	.05	.00	.05	.00	.00	.00	.00	.00	.00	.38	.62	.90	.38	.43	.29	.43	.00	3.52	3.52	3.52
19-24	1	0	0	0	0	0	0	0	0	12	18	6	1	7	5	7	0	57	57	57
(1)	.47	.00	.00	.00	.00	.00	.00	.00	.00	5.69	8.53	2.84	.47	3.32	2.37	3.32	.00	27.01	27.01	27.01
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.57	.86	.29	.05	.33	.24	.33	.00	2.71	2.71	2.71
GT 24	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	1	0	7	7	7
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.37	.47	.00	.00	.00	.00	.47	.00	3.32	3.32	3.32
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.05	.00	.00	.00	.00	.05	.00	.33	.33	.33
ALL SPEEDS	2	0	2	2	2	6	7	12	8	35	36	32	18	16	13	20	0	211	211	211
(1)	.95	.00	.95	.95	.95	2.84	3.32	5.69	3.79	16.59	17.06	15.17	8.53	7.58	6.16	9.48	.00	100.00	100.00	100.00
(2)	.10	.00	.10	.10	.10	.29	.33	.57	.38	1.67	1.71	1.52	.86	.76	.62	.95	.00	10.05	10.05	10.05

(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 APR01-JUN01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 4.86	
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.98	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.98
(2)	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	0	0	0	0	0	1	2	0	0	0	0	1	0	1	1	0	0	0	6
(1)	.00	.00	.00	.00	.00	.98	1.96	.00	.00	.00	.00	.98	.00	.98	.98	.00	.98	.00	5.88
(2)	.00	.00	.00	.00	.00	.05	.10	.00	.00	.00	.00	.05	.00	.05	.05	.00	.00	.00	.29
8-12	0	0	0	0	0	3	0	1	1	0	4	3	3	1	1	0	0	0	17
(1)	.00	.00	.00	.00	.00	2.94	.00	.98	.98	.00	3.92	2.94	2.94	.98	.98	.00	.00	.00	16.67
(2)	.00	.00	.00	.00	.00	.14	.00	.05	.05	.00	.19	.14	.14	.05	.05	.00	.00	.00	.81
13-18	0	0	0	0	0	0	0	0	0	2	9	16	7	4	2	3	0	0	43
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.96	8.82	15.69	6.86	3.92	1.96	2.94	.00	.00	42.16
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.43	.76	.33	.19	.10	.14	.00	.00	2.05
19-24	0	0	0	0	0	0	0	0	0	1	10	8	10	1	1	0	0	0	31
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.98	9.80	7.84	9.80	.98	.98	.00	.00	.00	30.39
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.48	.38	.48	.05	.05	.00	.00	.00	1.48
GT 24	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.92	.00	.00	.00	.00	.00	.00	.00	3.92
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.19
ALL SPEEDS	0	0	0	0	1	4	2	1	1	3	27	28	20	7	5	3	0	0	102
(1)	.00	.00	.00	.00	.98	3.92	1.96	.98	.98	2.94	26.47	27.45	19.61	6.86	4.90	2.94	.00	.00	100.00
(2)	.00	.00	.00	.00	.05	.19	.10	.05	.05	.14	1.29	1.33	.95	.33	.24	.14	.00	.00	4.86

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	5	2	3	1	2	3	4	3	2	1	3	1	3	0	1	1	0	0	35
(1)	.24	.10	.14	.05	.10	.14	.19	.14	.10	.05	.14	.05	.14	.00	.05	.05	.00	.00	1.67
(2)	.24	.10	.14	.05	.10	.14	.19	.14	.10	.05	.14	.05	.14	.00	.05	.05	.00	.00	1.67
4-7	21	22	15	26	28	30	29	14	19	9	10	11	9	14	15	12	0	0	284
(1)	1.00	1.05	.71	1.24	1.33	1.43	1.38	.67	.90	.43	.48	.52	.43	.67	.71	.57	.00	.00	13.52
(2)	1.00	1.05	.71	1.24	1.33	1.43	1.38	.67	.90	.43	.48	.52	.43	.67	.71	.57	.00	.00	13.52
8-12	28	34	19	23	41	85	55	31	45	50	33	22	22	27	10	37	0	0	562
(1)	1.33	1.62	.90	1.10	1.95	4.05	2.62	1.48	2.14	2.38	1.57	1.05	1.05	1.29	.48	1.76	.00	.00	26.76
(2)	1.33	1.62	.90	1.10	1.95	4.05	2.62	1.48	2.14	2.38	1.57	1.05	1.05	1.29	.48	1.76	.00	.00	26.76
13-18	19	35	15	3	30	41	35	23	77	135	62	65	63	44	32	43	0	0	722
(1)	.90	1.67	.71	.14	1.43	1.95	1.67	1.10	3.67	6.43	2.95	3.10	3.00	2.10	1.52	2.05	.00	.00	34.38
(2)	.90	1.67	.71	.14	1.43	1.95	1.67	1.10	3.67	6.43	2.95	3.10	3.00	2.10	1.52	2.05	.00	.00	34.38
19-24	24	23	4	1	1	4	13	1	26	113	37	21	24	34	25	43	0	0	394
(1)	1.14	1.10	.19	.05	.05	.19	.62	.05	1.24	5.38	1.76	1.00	1.14	1.62	1.19	2.05	.00	.00	18.76
(2)	1.14	1.10	.19	.05	.05	.19	.62	.05	1.24	5.38	1.76	1.00	1.14	1.62	1.19	2.05	.00	.00	18.76
GT 24	15	3	0	0	1	0	0	0	0	19	10	0	2	18	13	22	0	0	103
(1)	.71	.14	.00	.00	.05	.00	.00	.00	.00	.90	.48	.00	.10	.86	.62	1.05	.00	.00	4.90
(2)	.71	.14	.00	.00	.05	.00	.00	.00	.00	.90	.48	.00	.10	.86	.62	1.05	.00	.00	4.90
ALLSPEEDS	112	119	56	54	103	163	136	72	169	327	155	120	123	137	96	158	0	0	2100
(1)	5.33	5.67	2.67	2.57	4.90	7.76	6.48	3.43	8.05	15.57	7.38	5.71	5.86	6.52	4.57	7.52	.00	.00	100.00
(2)	5.33	5.67	2.67	2.57	4.90	7.76	6.48	3.43	8.05	15.57	7.38	5.71	5.86	6.52	4.57	7.52	.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 JUL01-SEP01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS A														CLASS FREQUENCY (PERCENT) = 16.82			
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	WIND DIRECTION FROM				SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
								SSE	S	SSW	S								
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	1	0	0	0	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	
4-7	8	12	8	3	3	1	0	0	3	0	2	0	0	2	3	10	0	55	
(1)	2.19	3.28	2.19	.82	.82	.27	.00	.00	.82	.00	.55	.00	.00	.55	.82	2.73	.00	15.03	
(2)	.37	.55	.37	.14	.14	.05	.00	.00	.14	.00	.09	.00	.00	.09	.14	.46	.00	2.53	
8-12	4	12	16	5	10	1	4	0	20	17	10	13	3	5	6	12	0	138	
(1)	1.09	3.28	4.37	1.37	2.73	.27	1.09	.00	5.46	4.64	2.73	3.55	.82	1.37	1.64	3.28	.00	37.70	
(2)	.18	.55	.74	.23	.46	.05	.18	.00	.92	.78	.46	.60	.14	.23	.28	.55	.00	6.34	
13-18	5	4	3	3	1	0	7	1	36	33	27	6	2	1	1	7	0	137	
(1)	1.37	1.09	.82	.82	.27	.00	1.91	.27	9.84	9.02	7.38	1.64	.55	.27	.27	1.91	.00	37.43	
(2)	.23	.18	.14	.14	.05	.00	.32	.05	1.65	1.52	1.24	.28	.09	.05	.05	.32	.00	6.30	
19-24	2	0	0	0	0	0	2	0	5	9	1	0	0	5	0	5	0	29	
(1)	.55	.00	.00	.00	.00	.00	.55	.00	1.37	2.46	.27	.00	.00	1.37	.00	1.37	.00	7.92	
(2)	.09	.00	.00	.00	.00	.00	.09	.00	.23	.41	.05	.00	.00	.23	.00	.23	.00	1.33	
GT 24	0	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	6	
(1)	.00	1.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	.00	.00	.00	1.64	
(2)	.00	.18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.28	
ALL SPEEDS	19	32	27	11	14	2	13	1	64	59	40	19	6	15	10	34	0	366	
(1)	5.19	8.74	7.38	3.01	3.83	.55	3.55	.27	17.49	16.12	10.93	5.19	1.64	4.10	2.73	9.29	.00	100.00	
(2)	.87	1.47	1.24	.51	.64	.09	.60	.05	2.94	2.71	1.84	.87	.28	.69	.46	1.56	.00	16.82	

220.0 FT WIND DATA		STABILITY CLASS B														CLASS FREQUENCY (PERCENT) = 4.46			
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	WIND DIRECTION FROM				SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
								SSE	S	SSW	S								
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
(1)	2.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	
4-7	0	1	7	0	6	0	0	0	0	0	0	0	0	0	2	3	0	19	
(1)	.00	1.03	7.22	.00	6.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.06	3.09	.00	19.59	
(2)	.00	.05	.32	.00	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.14	.00	.87	
8-12	0	4	2	2	6	1	3	1	0	1	5	2	0	1	2	0	0	30	
(1)	.00	4.12	2.06	2.06	6.19	1.03	3.09	1.03	.00	1.03	5.15	2.06	.00	1.03	2.06	.00	.00	30.93	
(2)	.00	.18	.09	.09	.28	.05	.14	.05	.00	.05	.23	.09	.00	.05	.09	.00	.00	1.38	
13-18	1	0	0	0	0	0	2	3	7	9	2	2	2	1	0	0	0	29	
(1)	1.03	.00	.00	.00	.00	.00	2.06	3.09	7.22	9.28	2.06	2.06	2.06	1.03	.00	.00	.00	29.90	
(2)	.05	.00	.00	.00	.00	.00	.09	.14	.32	.41	.09	.09	.09	.05	.00	.00	.00	1.33	
19-24	2	0	0	0	0	0	0	0	2	4	1	0	0	2	0	0	0	11	
(1)	2.06	.00	.00	.00	.00	.00	.00	.00	2.06	4.12	1.03	.00	.00	2.06	.00	.00	.00	11.34	
(2)	.09	.00	.00	.00	.00	.00	.00	.00	.09	.18	.05	.00	.00	.09	.00	.00	.00	.51	
GT 24	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
(1)	.00	6.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.19	
(2)	.00	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	
ALL SPEEDS	5	11	9	2	12	1	5	4	9	14	8	4	2	4	4	3	0	97	
(1)	5.15	11.34	9.28	2.06	12.37	1.03	5.15	4.12	9.28	14.43	8.25	4.12	2.06	4.12	4.12	3.09	.00	100.00	
(2)	.23	.51	.41	.09	.55	.05	.23	.18	.41	.64	.37	.18	.09	.18	.18	.14	.00	4.46	

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

Table A-2 (continued)

PILGRIM JUL01-SEP01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 4.23	
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	1	1	2	0	1	0	0	0	0	0	0	0	1	0	2	0	0	9
(1)	1.09	1.09	1.09	2.17	.00	1.09	.00	.00	.00	.00	.00	.00	.00	1.09	.00	2.17	.00	.00	9.78
(2)	.05	.05	.05	.09	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.00	.09	.00	.00	.41
8-12	2	0	2	3	4	6	5	0	2	4	3	3	0	0	0	1	0	0	35
(1)	2.17	.00	2.17	3.26	4.35	6.52	5.43	.00	2.17	4.35	3.26	3.26	.00	.00	.00	1.09	.00	.00	38.04
(2)	.09	.00	.09	.14	.18	.28	.23	.00	.09	.18	.14	.14	.00	.00	.00	.05	.00	.00	1.61
13-18	0	0	2	0	0	0	2	0	9	11	7	3	2	1	0	0	0	0	37
(1)	.00	.00	2.17	.00	.00	.00	2.17	.00	9.78	11.96	7.61	3.26	2.17	1.09	.00	.00	.00	.00	40.22
(2)	.00	.00	.09	.00	.00	.00	.09	.00	.41	.51	.32	.14	.09	.05	.00	.00	.00	.00	1.70
19-24	0	1	0	0	0	0	0	0	2	3	1	0	0	0	0	0	0	0	7
(1)	.00	1.09	.00	.00	.00	.00	.00	.00	2.17	3.26	1.09	.00	.00	.00	.00	.00	.00	.00	7.61
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.09	.14	.05	.00	.00	.00	.00	.00	.00	.00	.32
GT 24	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4
(1)	.00	3.26	.00	.00	.00	.00	.00	1.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.35
(2)	.00	.14	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
ALL SPEEDS	3	5	5	5	4	7	7	1	13	18	11	6	2	2	0	3	0	0	92
(1)	3.26	5.43	5.43	5.43	4.35	7.61	7.61	1.09	14.13	19.57	11.96	6.52	2.17	2.17	.00	3.26	.00	.00	100.00
(2)	.14	.23	.23	.23	.18	.32	.32	.05	.60	.83	.51	.28	.09	.09	.00	.14	.00	.00	4.23

220.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 26.33	
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	3	1	0	1	1	0	0	0	0	1	0	1	1	1	1	0	0	14
(1)	.52	.52	.17	.00	.17	.17	.00	.00	.00	.00	.17	.00	.17	.17	.17	.17	.00	.00	2.44
(2)	.14	.14	.05	.00	.05	.05	.00	.00	.00	.00	.05	.00	.05	.05	.05	.05	.00	.00	.64
4-7	4	5	7	11	6	13	5	2	4	6	7	3	5	2	8	5	0	0	93
(1)	.70	.87	1.22	1.92	1.05	2.27	.87	.35	.70	1.05	1.22	.52	.87	.35	1.40	.87	.00	.00	16.23
(2)	.18	.23	.32	.51	.28	.60	.23	.09	.18	.28	.32	.14	.23	.09	.37	.23	.00	.00	4.27
8-12	3	4	8	7	4	18	22	4	25	35	14	7	3	4	6	6	0	0	170
(1)	.52	.70	1.40	1.22	.70	3.14	3.84	.70	4.36	6.11	2.44	1.22	.52	.70	1.05	1.05	.00	.00	29.67
(2)	.14	.18	.37	.32	.18	.83	1.01	.18	1.15	1.61	.64	.32	.14	.18	.28	.28	.00	.00	7.81
13-18	9	3	4	5	2	3	19	4	53	50	17	8	3	2	1	3	0	0	186
(1)	1.57	.52	.70	.87	.35	.52	3.32	.70	9.25	8.73	2.97	1.40	.52	.35	.17	.52	.00	.00	32.46
(2)	.41	.14	.18	.23	.09	.14	.87	.18	2.44	2.30	.78	.37	.14	.09	.05	.14	.00	.00	8.55
19-24	5	9	1	0	0	0	2	4	3	31	3	0	0	3	3	7	0	0	71
(1)	.87	1.57	.17	.00	.00	.00	.35	.70	.52	5.41	.52	.00	.00	.52	.52	1.22	.00	.00	12.39
(2)	.23	.41	.05	.00	.00	.00	.09	.18	.14	1.42	.14	.00	.00	.14	.14	.32	.00	.00	3.26
GT 24	9	12	15	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	39
(1)	1.57	2.09	2.62	.00	.00	.00	.00	.00	.00	.17	.17	.00	.00	.00	.00	.17	.00	.00	6.81
(2)	.41	.55	.69	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.05	.00	.00	1.79
ALL SPEEDS	33	36	36	23	13	35	48	14	85	123	43	18	12	12	19	23	0	0	573
(1)	5.76	6.28	6.28	4.01	2.27	6.11	8.38	2.44	14.83	21.47	7.50	3.14	2.09	2.09	3.32	4.01	.00	.00	100.00
(2)	1.52	1.65	1.65	1.06	.60	1.61	2.21	.64	3.91	5.65	1.98	.83	.55	.55	.87	1.06	.00	.00	26.33

(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 JUL01-SEP01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 33.27

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	3	5	9	3	1	1	1	1	1	0	1	2	1	0	0	
(1)	.28	.14	.41	.69	1.24	.41	.14	.14	.14	.14	.14	.00	.14	.28	.14	.00	.00	
(2)	.09	.05	.14	.23	.41	.14	.05	.05	.05	.05	.05	.00	.05	.09	.05	.00	.00	
4-7	3	6	1	6	5	11	10	4	6	5	3	5	4	2	5	10	0	
(1)	.41	.83	.14	.83	.69	1.52	1.38	.55	.83	.69	.41	.69	.55	.28	.69	1.38	.00	
(2)	.14	.28	.05	.28	.23	.51	.46	.18	.28	.23	.14	.23	.18	.09	.23	.46	.00	
8-12	7	10	4	7	7	5	8	7	20	19	7	6	8	16	16	16	0	
(1)	.97	1.38	.55	.97	.97	.69	1.10	.97	2.76	2.62	.97	.83	1.10	2.21	2.21	2.21	.00	
(2)	.32	.46	.18	.32	.32	.23	.37	.32	.92	.87	.32	.28	.37	.74	.74	.74	.00	
13-18	2	2	1	2	2	0	26	10	53	78	40	29	20	9	6	11	0	
(1)	.28	.28	.14	.28	.28	.00	3.59	1.38	7.32	10.77	5.52	4.01	2.76	1.24	.83	1.52	.00	
(2)	.09	.09	.05	.09	.09	.00	1.19	.46	2.44	3.58	1.84	1.33	.92	.41	.28	.51	.00	
19-24	3	3	0	0	0	0	0	0	5	78	18	2	4	2	10	15	0	
(1)	.41	.41	.00	.00	.00	.00	.00	.00	.69	10.77	2.49	.28	.55	.28	1.38	2.07	.00	
(2)	.14	.14	.00	.00	.00	.00	.00	.00	.23	3.58	.83	.09	.18	.09	.46	.69	.00	
GT 24	0	1	0	0	0	0	0	0	0	5	1	0	4	0	0	1	0	
(1)	.00	.14	.00	.00	.00	.00	.00	.00	.00	.69	.14	.00	.55	.00	.00	.14	.00	
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.23	.05	.00	.18	.00	.00	.05	.00	
ALL SPEEDS	17	23	9	20	23	19	45	22	85	186	70	42	41	31	38	53	0	
(1)	2.35	3.18	1.24	2.76	3.18	2.62	6.22	3.04	11.74	25.69	9.67	5.80	5.66	4.28	5.25	7.32	.00	
(2)	.78	1.06	.41	.92	1.06	.87	2.07	1.01	3.91	8.55	3.22	1.93	1.88	1.42	1.75	2.44	.00	

220.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 11.95

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	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
C-3	0	0	1	0	0	3	0	0	0	0	1	0	0	0	0	0	0	
(1)	.00	.00	.38	.00	.00	1.15	.00	.00	.00	.00	.38	.00	.00	.00	.00	.00	.00	
(2)	.00	.00	.05	.00	.00	.14	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	
4-7	0	0	2	2	3	5	5	2	1	3	4	0	1	1	2	0	0	
(1)	.00	.00	.77	.77	1.15	1.92	1.92	.77	.38	1.15	1.54	.00	.38	.38	.77	.00	.00	
(2)	.00	.00	.09	.09	.14	.23	.23	.09	.05	.14	.18	.00	.05	.05	.09	.00	.00	
8-12	0	1	1	0	0	0	4	5	8	9	2	6	4	9	7	2	0	
(1)	.00	.38	.38	.00	.00	.00	1.54	1.92	3.08	3.46	.77	2.31	1.54	3.46	2.69	.77	.00	
(2)	.00	.05	.05	.00	.00	.00	.18	.23	.37	.41	.09	.28	.18	.41	.32	.09	.00	
13-18	0	0	0	0	0	0	1	3	12	18	29	26	13	10	2	2	0	
(1)	.00	.00	.00	.00	.00	.00	.38	1.15	4.62	6.92	11.15	10.00	5.00	3.85	.77	.77	.00	
(2)	.00	.00	.00	.00	.00	.00	.05	.14	.55	.83	1.33	1.19	.60	.46	.09	.09	.00	
19-24	0	0	0	0	0	0	0	0	0	18	20	4	0	0	2	4	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.92	7.69	1.54	.00	.00	.77	1.54	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83	.92	.18	.00	.00	.09	.18	.00	
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.00	
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	
ALL SPEEDS	0	1	4	2	3	8	10	10	21	48	56	36	18	20	13	10	0	
(1)	.00	.38	1.54	.77	1.15	3.08	3.85	3.85	8.08	18.46	21.54	13.85	6.92	7.69	5.00	3.85	.00	
(2)	.00	.05	.18	.09	.14	.37	.46	.46	.97	2.21	2.57	1.65	.83	.92	.60	.46	.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 JUL01-SEP01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS G																CLASS FREQUENCY (PERCENT) = 2.94				
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	WIND DIRECTION FROM								WSW	W	WNW	NW	NNW	VRBL	TOTAL
								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	
(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	1	0	1	0	0	0	0	0	0	0	0	1	0	3		
(1)	.00	.00	.00	.00	.00	.00	1.56	.00	1.56	.00	.00	.00	.00	.00	.00	.00	.00	1.56	.00	4.69		
(2)	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.14		
4-7	0	1	0	0	0	0	2	1	0	3	1	2	1	0	0	0	0	0	11			
(1)	.00	1.56	.00	.00	.00	.00	3.13	1.56	.00	4.69	1.56	3.13	1.56	.00	.00	.00	.00	.00	17.19			
(2)	.00	.05	.00	.00	.00	.00	.09	.05	.00	.14	.05	.09	.05	.00	.00	.00	.00	.00	.51			
8-12	0	0	0	0	0	0	0	1	3	4	2	6	1	4	0	0	0	0	21			
(1)	.00	.00	.00	.00	.00	.00	.00	1.56	4.69	6.25	3.13	9.38	1.56	6.25	.00	.00	.00	.00	32.81			
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.14	.18	.09	.28	.05	.18	.00	.00	.00	.00	.97			
13-18	0	0	0	0	0	0	0	0	3	7	2	2	0	0	0	0	0	0	14			
(1)	.00	.00	.00	.00	.00	.00	.00	.00	4.69	10.94	3.13	3.13	.00	.00	.00	.00	.00	.00	21.88			
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.14	.32	.09	.09	.00	.00	.00	.00	.00	.00	.64			
19-24	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15			
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	23.44	.00	.00	.00	.00	.00	.00	.00	.00	23.44			
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	.00	.00	.00	.00	.00	.00	.00	.00	.69			
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
ALL SPEEDS	0	1	0	0	0	0	3	2	4	10	25	10	4	4	0	1	0	64				
(1)	.00	1.56	.00	.00	.00	.00	4.69	3.13	6.25	15.63	39.06	15.63	6.25	6.25	.00	1.56	.00	100.00				
(2)	.00	.05	.00	.00	.00	.00	.14	.09	.18	.46	1.15	.46	.18	.18	.00	.05	.00	2.94				

220.0 FT WIND DATA		STABILITY CLASS ALL																CLASS FREQUENCY (PERCENT) = 100.00				
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	WIND DIRECTION FROM								WSW	W	WNW	NW	NNW	VRBL	TOTAL
								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			
(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	4	5	5	10	7	2	1	2	1	3	0	3	3	2	2	0	0	57			
(1)	.32	.18	.23	.23	.46	.32	.09	.05	.09	.05	.14	.00	.14	.14	.09	.09	.00	2.62				
(2)	.32	.18	.23	.23	.46	.32	.09	.05	.09	.05	.14	.00	.14	.14	.09	.09	.00	2.62				
4-7	16	26	26	24	23	31	22	9	14	17	17	10	11	8	20	30	0	304				
(1)	.74	1.19	1.19	1.10	1.06	1.42	1.01	.41	.64	.78	.78	.46	.51	.37	.92	1.38	.00	13.97				
(2)	.74	1.19	1.19	1.10	1.06	1.42	1.01	.41	.64	.78	.78	.46	.51	.37	.92	1.38	.00	13.97				
8-12	16	31	33	24	31	31	46	18	78	89	43	43	19	39	37	37	0	615				
(1)	.74	1.42	1.52	1.10	1.42	1.42	2.11	.83	3.58	4.09	1.98	1.98	.87	1.79	1.70	1.70	.00	28.26				
(2)	.74	1.42	1.52	1.10	1.42	1.42	2.11	.83	3.58	4.09	1.98	1.98	.87	1.79	1.70	1.70	.00	28.26				
13-18	17	9	10	10	5	3	57	21	170	202	129	76	44	24	10	23	0	810				
(1)	.78	.41	.46	.46	.23	.14	2.62	.97	7.81	9.28	5.93	3.49	2.02	1.10	.46	1.06	.00	37.22				
(2)	.78	.41	.46	.46	.23	.14	2.62	.97	7.81	9.28	5.93	3.49	2.02	1.10	.46	1.06	.00	37.22				
19-24	12	13	1	0	0	0	4	4	17	143	59	6	4	12	15	31	0	321				
(1)	.55	.60	.05	.00	.00	.00	.18	.18	.78	6.57	2.71	.28	.18	.55	.69	1.42	.00	14.75				
(2)	.55	.60	.05	.00	.00	.00	.18	.18	.78	6.57	2.71	.28	.18	.55	.69	1.42	.00	14.75				
GT 24	9	26	15	0	0	0	0	1	0	6	2	0	4	2	0	4	0	69				
(1)	.41	1.19	.69	.00	.00	.00	.00	.05	.00	.28	.09	.00	.18	.09	.00	.18	.00	3.17				
(2)	.41	1.19	.69	.00	.00	.00	.00	.05	.00	.28	.09	.00	.18	.09	.00	.18	.00	3.17				
ALL SPEEDS	77	109	90	63	69	72	131	54	281	458	253	135	85	88	84	127	0	2176				
(1)	3.54	5.01	4.14	2.90	3.17	3.31	6.02	2.48	12.91	21.05	11.63	6.20	3.91	4.04	3.86	5.84	.00	100.00				
(2)	3.54	5.01	4.14	2.90	3.17	3.31	6.02	2.48	12.91	21.05	11.63	6.20	3.91	4.04	3.86	5.84	.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 OCT01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 7.75

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	1	0	0	0	0	0	0	1
(1)	.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	.05	.00	.00	.00	.00	.00	.00	.05
C-3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00	.00	.00	.60
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05
4-7	1	4	0	0	1	0	0	0	0	0	0	0	0	3	2	2	2	13
(1)	.60	2.41	.00	.00	.60	.00	.00	.00	.00	.00	.00	.00	.00	1.81	1.20	1.20	.00	7.83
(2)	.05	.19	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.14	.09	.09	.00	.61
8-12	3	2	0	1	3	2	2	0	0	3	2	0	7	2	6	2	0	35
(1)	1.81	1.20	.00	.60	1.81	1.20	1.20	.00	.00	1.81	1.20	.00	4.22	1.20	3.61	1.20	.00	21.08
(2)	.14	.09	.00	.05	.14	.09	.09	.00	.00	.14	.09	.00	.33	.09	.28	.09	.00	1.63
13-18	3	3	0	0	0	0	0	1	8	8	13	5	13	5	6	2	0	67
(1)	1.81	1.81	.00	.00	.00	.00	.00	.60	4.82	4.82	7.83	3.01	7.83	3.01	3.61	1.20	.00	40.36
(2)	.14	.14	.00	.00	.00	.00	.00	.05	.37	.37	.61	.23	.61	.23	.28	.09	.00	3.13
19-24	2	2	0	0	0	0	1	0	0	0	5	0	2	4	1	11	0	28
(1)	1.20	1.20	.00	.00	.00	.00	.60	.00	.00	.00	3.01	.00	1.20	2.41	.60	6.63	.00	16.87
(2)	.09	.09	.00	.00	.00	.00	.05	.00	.00	.00	.23	.00	.09	.19	.05	.51	.00	1.31
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13	4	0	21
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.41	7.83	2.41	.00	12.65
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.61	.19	.00	.98
ALL SPEEDS	9	11	0	1	4	2	3	1	8	12	21	5	22	18	28	21	0	166
(1)	5.42	6.63	.00	.60	2.41	1.20	1.81	.60	4.82	7.23	12.65	3.01	13.25	10.84	16.87	12.65	.00	100.00
(2)	.42	.51	.00	.05	.19	.09	.14	.05	.37	.56	.98	.23	1.03	.84	1.31	.98	.00	7.75

220.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 4.48

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
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.04	.00	.00	.00	.00	.00	.00	.00	1.04
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05
4-7	0	0	0	2	0	1	0	0	1	3	0	2	5	0	3	0	0	17
(1)	.00	.00	.00	2.08	.00	1.04	.00	.00	1.04	3.13	.00	2.08	5.21	.00	3.13	.00	.00	17.71
(2)	.00	.00	.00	.09	.00	.05	.00	.00	.05	.14	.00	.09	.23	.00	.14	.00	.00	.79
8-12	0	0	0	0	1	1	0	1	1	1	6	2	3	0	0	0	0	16
(1)	.00	.00	.00	.00	1.04	1.04	.00	1.04	1.04	1.04	6.25	2.08	3.13	.00	.00	.00	.00	16.67
(2)	.00	.00	.00	.00	.05	.05	.00	.05	.05	.05	.28	.09	.14	.00	.00	.00	.00	.75
13-18	1	1	0	0	0	0	2	1	2	3	6	9	5	1	1	2	0	34
(1)	1.04	1.04	.00	.00	.00	.00	2.08	1.04	2.08	3.13	6.25	9.38	5.21	1.04	1.04	2.08	.00	35.42
(2)	.05	.05	.00	.00	.00	.00	.09	.05	.09	.14	.28	.42	.23	.05	.05	.09	.00	1.59
19-24	1	2	3	1	0	0	1	0	0	0	4	2	2	1	0	0	0	17
(1)	1.04	2.08	3.13	1.04	.00	.00	1.04	.00	.00	.00	4.17	2.08	2.08	1.04	.00	.00	.00	17.71
(2)	.05	.09	.14	.05	.00	.00	.05	.00	.00	.00	.19	.09	.09	.05	.00	.00	.00	.79
GT 24	1	0	0	0	0	0	0	0	0	0	0	0	1	4	3	2	0	11
(1)	1.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.04	4.17	3.13	2.08	.00	11.46
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.19	.14	.09	.00	.51
ALL SPEEDS	3	3	3	3	1	2	3	2	4	8	16	15	16	6	7	4	0	96
(1)	3.13	3.13	3.13	3.13	1.04	2.08	3.13	2.08	4.17	8.33	16.67	15.63	16.67	6.25	7.29	4.17	.00	100.00
(2)	.14	.14	.14	.14	.05	.09	.14	.09	.19	.37	.75	.70	.75	.28	.33	.19	.00	4.48

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

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

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

Table A-2 (continued)

PILGRIM OCT01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS C																CLASS FREQUENCY (PERCENT) = 5.09	
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	1	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.92	.00	.00	.00	.00	.92
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05
C-3	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	.92	.00	.00	.00	.00	.00	.92
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
4-7	1	0	2	1	0	0	0	0	0	0	1	1	1	1	0	2	0	0	10
(1)	.92	.00	1.83	.92	.00	.00	.00	.00	.00	.00	.92	.92	.92	.92	.00	1.83	.00	0.00	9.17
(2)	.05	.00	.09	.05	.00	.00	.00	.00	.00	.00	.05	.05	.05	.05	.00	.09	.00	.00	.47
8-12	0	1	0	1	1	0	0	1	0	7	10	1	6	2	0	0	0	0	30
(1)	.00	.92	.00	.92	.92	.00	.00	.92	.00	6.42	9.17	.92	5.50	1.83	.00	.00	.00	27.52	
(2)	.00	.05	.00	.05	.05	.00	.00	.05	.00	.33	.47	.05	.28	.09	.00	.00	.00	1.40	
13-18	1	1	1	0	0	2	4	0	2	2	8	7	3	2	1	0	0	0	34
(1)	.92	.92	.92	.00	.00	1.83	3.67	.00	1.83	1.83	7.34	6.42	2.75	1.83	.92	.00	.00	31.19	
(2)	.05	.05	.05	.00	.00	.09	.19	.00	.09	.09	.37	.33	.14	.09	.05	.00	.00	1.59	
19-24	1	0	7	3	0	0	0	0	0	3	3	2	0	3	1	1	0	0	24
(1)	.92	.00	6.42	2.75	.00	.00	.00	.00	.00	2.75	2.75	1.83	.00	2.75	.92	.92	.00	22.02	
(2)	.05	.00	.33	.14	.00	.00	.00	.00	.00	.14	.14	.09	.00	.14	.05	.05	.00	1.12	
GT 24	0	2	1	0	0	0	0	0	0	0	0	0	1	1	1	3	0	0	9
(1)	.00	1.83	.92	.00	.00	.00	.00	.00	.00	.00	.00	.00	.92	.92	.92	2.75	.00	8.26	
(2)	.00	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.05	.14	.00	.42	
ALL SPEEDS	3	4	11	5	1	2	4	1	2	12	22	11	12	10	3	6	0	109	
(1)	2.75	3.67	10.09	4.59	.92	1.83	3.67	.92	1.83	11.01	20.18	10.09	11.01	9.17	2.75	5.50	.00	100.00	
(2)	.14	.19	.51	.23	.05	.09	.19	.05	.09	.56	1.03	.51	.56	.47	.14	.28	.00	5.09	

220.0 FT WIND DATA		STABILITY CLASS D																CLASS FREQUENCY (PERCENT) = 36.35	
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	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.13
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05
C-3	1	0	0	0	0	0	0	2	1	0	2	0	0	0	0	1	0	0	7
(1)	.13	.00	.00	.00	.00	.00	.00	.26	.13	.00	.26	.00	.00	.00	.00	.13	.00	.00	.90
(2)	.05	.00	.00	.00	.00	.00	.00	.09	.05	.00	.09	.00	.00	.00	.00	.05	.00	.00	.33
4-7	4	5	3	7	6	5	2	1	3	6	8	3	3	4	2	1	0	0	63
(1)	.51	.64	.39	.90	.77	.64	.26	.13	.39	.77	1.03	.39	.39	.51	.26	.13	.00	8.09	
(2)	.19	.23	.14	.33	.28	.23	.09	.05	.14	.28	.37	.14	.14	.19	.09	.05	.00	2.94	
8-12	10	13	3	6	10	8	10	2	12	28	20	15	9	5	9	10	0	0	170
(1)	1.28	1.67	.39	.77	1.28	1.03	1.28	.26	1.54	3.59	2.57	1.93	1.16	.64	1.16	1.28	.00	21.82	
(2)	.47	.61	.14	.28	.47	.37	.47	.09	.56	1.31	.93	.70	.42	.23	.42	.47	.00	7.93	
13-18	8	9	0	4	7	12	16	11	15	76	37	42	20	4	10	5	0	0	276
(1)	1.03	1.16	.00	.51	.90	1.54	2.05	1.41	1.93	9.76	4.75	5.39	2.57	.51	1.28	.64	.00	35.43	
(2)	.37	.42	.00	.19	.33	.56	.75	.51	.70	3.55	1.73	1.96	.93	.19	.47	.23	.00	12.88	
19-24	0	12	4	8	6	0	6	8	8	44	11	3	19	13	21	8	0	0	171
(1)	.00	1.54	.51	1.03	.77	.00	.77	1.03	1.03	5.65	1.41	.39	2.44	1.67	2.70	1.03	.00	21.95	
(2)	.00	.56	.19	.37	.28	.00	.28	.37	.37	2.05	.51	.14	.89	.61	.98	.37	.00	7.98	
GT 24	1	5	6	0	0	0	0	0	1	6	1	2	5	11	48	5	0	0	91
(1)	.13	.64	.77	.00	.00	.00	.00	.00	.13	.77	.13	.26	.64	1.41	6.16	.64	.00	11.68	
(2)	.05	.23	.28	.00	.00	.00	.00	.00	.05	.28	.05	.09	.23	.51	2.24	.23	.00	4.25	
ALL SPEEDS	24	44	16	25	29	25	34	24	40	160	79	65	57	37	90	30	0	0	779
(1)	3.08	5.65	2.05	3.21	3.72	3.21	4.36	3.08	5.13	20.54	10.14	8.34	7.32	4.75	11.55	3.85	.00	100.00	
(2)	1.12	2.05	.75	1.17	1.35	1.17	1.59	1.12	1.87	7.47	3.69	3.03	2.66	1.73	4.20	1.40	.00	36.35	

(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 OCT01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA		STABILITY CLASS E																CLASS FREQUENCY (PERCENT) = 37.38		
SPEED (MPH)	N	NNE	NE	WIND DIRECTION FROM													VRBL	TOTAL		
				ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW				
CALM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
(1)	.00	.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.25
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.09
C-3	0	2	0	0	1	1	0	0	0	1	1	0	0	1	1	0	0	0	0	8
(1)	.00	.25	.00	.00	.12	.12	.00	.00	.00	.12	.12	.00	.12	.12	.00	.00	.00	.00	.00	1.00
(2)	.00	.09	.00	.00	.05	.05	.00	.00	.00	.05	.05	.00	.05	.05	.00	.00	.00	.00	.00	.37
4-7	1	1	0	6	4	5	3	2	3	4	0	2	5	0	3	3	0	0	0	42
(1)	.12	.12	.00	.75	.50	.62	.37	.25	.37	.50	.00	.25	.62	.00	.37	.37	.00	.00	.00	5.24
(2)	.05	.05	.00	.28	.19	.23	.14	.09	.14	.19	.00	.09	.23	.00	.14	.14	.00	.00	.00	1.96
8-12	4	7	5	2	4	4	6	4	9	12	10	13	20	29	8	9	0	0	0	146
(1)	.50	.87	.62	.25	.50	.50	.75	.50	1.12	1.50	1.25	1.62	2.50	3.62	1.00	1.12	.00	1.12	.00	18.23
(2)	.19	.33	.23	.09	.19	.19	.28	.19	.42	.56	.47	.61	.93	1.35	.37	.42	.00	.42	.00	6.81
13-18	5	2	0	0	2	0	22	13	24	28	59	67	55	56	23	3	0	0	0	359
(1)	.62	.25	.00	.00	.25	.00	2.75	1.62	3.00	3.50	7.37	8.36	6.87	6.99	2.87	.37	.00	.37	.00	44.82
(2)	.23	.09	.00	.00	.09	.00	1.03	.61	1.12	1.31	2.75	3.13	2.57	2.61	1.07	.14	.00	.14	.00	16.75
19-24	1	0	0	0	0	0	1	3	5	5	60	33	24	27	12	7	0	0	0	205
(1)	.12	.00	.00	.00	.00	.12	.37	.62	.62	7.49	4.12	3.00	3.37	3.37	1.50	.87	.00	.87	.00	25.59
(2)	.05	.00	.00	.00	.00	.05	.14	.23	.23	2.80	1.54	1.12	1.26	1.26	.56	.33	.00	.33	.00	9.57
GT 24	1	0	0	0	0	0	0	0	0	7	8	0	5	8	9	1	0	0	0	39
(1)	.12	.00	.00	.00	.00	.00	.00	.00	.00	.87	1.00	.00	.62	1.00	1.12	.12	.00	.12	.00	4.87
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.33	.37	.00	.23	.37	.42	.05	.00	.42	.00	1.82
ALL SPEEDS	12	13	5	8	11	11	34	24	41	112	111	106	114	121	55	23	0	0	0	801
(1)	1.50	1.62	.62	1.00	1.37	1.37	4.24	3.00	5.12	13.98	13.86	13.23	14.23	15.11	6.87	2.87	.00	.00	.00	100.00
(2)	.56	.61	.23	.37	.51	.51	1.59	1.12	1.91	5.23	5.18	4.95	5.32	5.65	2.57	1.07	.00	.00	.00	37.38

220.0 FT WIND DATA		STABILITY CLASS F																CLASS FREQUENCY (PERCENT) = 7.05		
SPEED (MPH)	N	NNE	NE	WIND DIRECTION FROM													VRBL	TOTAL		
				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	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	4
(1)	.00	.00	.00	1.32	.00	.00	.00	.66	.00	.00	.00	.00	.00	.00	.00	.66	.00	.00	.00	2.65
(2)	.00	.00	.00	.09	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.19
4-7	2	0	4	1	3	3	1	0	0	3	1	2	1	2	0	2	0	0	0	25
(1)	1.32	.00	2.65	.66	1.99	1.99	.66	.00	.00	1.99	.66	1.32	.66	1.32	.00	1.32	.00	1.32	.00	16.56
(2)	.09	.00	.19	.05	.14	.14	.05	.00	.00	.14	.05	.09	.05	.09	.00	.09	.00	.09	.00	1.17
8-12	1	0	0	0	0	0	2	1	6	4	3	3	4	10	3	2	0	0	0	39
(1)	.66	.00	.00	.00	.00	.00	1.32	.66	3.97	2.65	1.99	1.99	2.65	6.62	1.99	1.32	.00	1.32	.00	25.83
(2)	.05	.00	.00	.00	.00	.00	.09	.05	.28	.19	.14	.14	.19	.47	.14	.09	.00	.09	.00	1.82
13-18	0	0	0	0	0	0	2	3	3	4	14	9	22	9	2	0	0	0	0	68
(1)	.00	.00	.00	.00	.00	.00	1.32	1.99	1.99	2.65	9.27	5.96	14.57	5.96	1.32	.00	.00	.00	.00	45.03
(2)	.00	.00	.00	.00	.00	.00	.09	.14	.14	.19	.65	.42	1.03	.42	.09	.00	.00	.00	.00	3.17
19-24	0	0	0	0	0	0	0	1	0	1	11	0	2	0	0	0	0	0	0	15
(1)	.00	.00	.00	.00	.00	.00	.00	.66	.00	.66	7.28	.00	1.32	.00	.00	.00	.00	.00	.00	9.93
(2)	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.51	.00	.09	.00	.00	.00	.00	.00	.00	.70
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	3	0	4	3	3	3	5	6	9	12	29	14	29	21	6	4	0	0	0	151
(1)	1.99	.00	2.65	1.99	1.99	1.99	3.31	3.97	5.96	7.95	19.21	9.27	19.21	13.91	3.97	2.65	.00	.00	.00	100.00
(2)	.14	.00	.19	.14	.14	.14	.23	.28	.42	.56	1.35	.65	1.35	.98	.28	.19	.00	.00	.00	7.05

(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 OCT01-DEC01 MET DATA JOINT FREQUENCY DISTRIBUTION (220-FOOT TOWER)

220.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = 1.91

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	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.44	.00	2.44
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05
4-7	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	0	4	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.88	.00	2.44	2.44	.00	.00	9.76	9.76
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.05	.05	.00	.00	.19	.19
8-12	0	0	0	0	0	0	0	0	0	1	2	5	6	4	0	0	0	0	18
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.44	4.88	12.20	14.63	9.76	.00	.00	.00	43.90	43.90
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.23	.28	.19	.00	.00	.00	.84	.84
13-18	0	0	0	0	0	0	0	0	0	1	4	0	4	6	0	0	0	0	15
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.44	9.76	.00	9.76	14.63	.00	.00	.00	36.59	36.59
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.19	.00	.19	.28	.00	.00	.00	.70	.70
19-24	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.44	2.44	.00	2.44	.00	.00	.00	.00	7.32	7.32
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.05	.00	.00	.00	.00	.14	.14
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	0	0	0	0	0	3	7	7	11	11	1	1	0	41	41
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.32	17.07	17.07	26.83	26.83	2.44	2.44	.00	100.00	100.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.33	.33	.51	.51	.05	.05	.00	1.91	1.91

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	1	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	5	5
(1)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.09	.05	.00	.00	.00	.23	.23
(2)	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.09	.05	.00	.00	.00	.23	.23
C-3	1	2	0	2	1	1	0	3	1	3	3	0	2	1	1	2	0	23	23
(1)	.05	.09	.00	.09	.05	.05	.00	.14	.05	.14	.14	.00	.09	.05	.05	.09	.00	1.07	1.07
(2)	.05	.09	.00	.09	.05	.05	.00	.14	.05	.14	.14	.00	.09	.05	.05	.09	.00	1.07	1.07
4-7	9	10	9	17	14	14	6	3	7	16	10	12	15	11	11	10	0	174	174
(1)	.42	.47	.42	.79	.65	.65	.28	.14	.33	.75	.47	.56	.70	.51	.51	.47	.00	8.12	8.12
(2)	.42	.47	.42	.79	.65	.65	.28	.14	.33	.75	.47	.56	.70	.51	.51	.47	.00	8.12	8.12
8-12	18	23	8	10	19	15	20	9	28	56	53	39	55	52	26	23	0	454	454
(1)	.84	1.07	.37	.47	.89	.70	.93	.42	1.31	2.61	2.47	1.82	2.57	2.43	1.21	1.07	.00	21.19	21.19
(2)	.84	1.07	.37	.47	.89	.70	.93	.42	1.31	2.61	2.47	1.82	2.57	2.43	1.21	1.07	.00	21.19	21.19
13-18	18	16	1	4	9	14	46	29	54	122	141	139	122	83	43	12	0	853	853
(1)	.84	.75	.05	.19	.42	.65	2.15	1.35	2.52	5.69	6.58	6.49	5.69	3.87	2.01	.56	.00	39.80	39.80
(2)	.84	.75	.05	.19	.42	.65	2.15	1.35	2.52	5.69	6.58	6.49	5.69	3.87	2.01	.56	.00	39.80	39.80
19-24	5	16	14	12	6	1	11	14	13	109	68	31	53	48	35	27	0	463	463
(1)	.23	.75	.65	.56	.28	.05	.51	.65	.61	5.09	3.17	1.45	2.47	2.24	1.63	1.26	.00	21.61	21.61
(2)	.23	.75	.65	.56	.28	.05	.51	.65	.61	5.09	3.17	1.45	2.47	2.24	1.63	1.26	.00	21.61	21.61
GT 24	3	7	7	0	0	0	0	0	1	13	9	2	12	28	74	15	0	171	171
(1)	.14	.33	.33	.00	.00	.00	.00	.00	.05	.61	.42	.09	.56	1.31	3.45	.70	.00	7.98	7.98
(2)	.14	.33	.33	.00	.00	.00	.00	.00	.05	.61	.42	.09	.56	1.31	3.45	.70	.00	7.98	7.98
ALL SPEEDS	54	75	39	45	49	45	83	58	104	319	285	223	261	224	190	89	0	2143	2143
(1)	2.52	3.50	1.82	2.10	2.29	2.10	3.87	2.71	4.85	14.89	13.30	10.41	12.18	10.45	8.87	4.15	.00	100.00	100.00
(2)	2.52	3.50	1.82	2.10	2.29	2.10	3.87	2.71	4.85	14.89	13.30	10.41	12.18	10.45	8.87	4.15	.00	100.00	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 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	73	4.005E-11	3.100E-09	9.351E-09	8.341E-09	8.987E-09	1.210E-08	1.317E-08	1.281E-08	
NNE	129	2.953E-10	9.637E-09	1.087E-08	9.447E-09	1.058E-08	1.513E-08	1.739E-08	1.754E-08	
NE	157	2.534E-10	6.976E-09	5.443E-09	5.712E-09	7.918E-09	1.392E-08	1.717E-08	1.796E-08	
ENE	212	3.734E-10	1.294E-08	1.701E-08	1.755E-08	1.881E-08	2.313E-08	2.487E-08	2.439E-08	
E	325	1.643E-09	5.496E-08	3.728E-08	2.563E-08	2.582E-08	3.253E-08	3.555E-08	3.502E-08	
ESE	366	2.843E-09	9.101E-08	4.687E-08	3.717E-08	3.955E-08	4.581E-08	4.624E-08	4.355E-08	
SE	188	1.453E-09	4.983E-08	3.969E-08	3.054E-08	2.984E-08	3.714E-08	2.948E-08	2.789E-08	
SSE	89	2.044E-09	6.858E-08	6.847E-08	6.270E-08	6.349E-08	4.943E-08	3.855E-08	3.080E-08	
S	71	1.449E-09	3.398E-08	8.195E-08	1.085E-07	8.625E-08	7.468E-08	5.747E-08	4.270E-08	
SSW	73	1.730E-09	2.867E-08	6.945E-08	1.023E-07	1.653E-07	1.345E-07	8.571E-08	6.080E-08	
SW	81	6.643E-09	5.304E-08	5.465E-08	6.866E-08	5.962E-08	4.536E-08	3.327E-08	2.557E-08	
WSW	74	9.797E-12	6.140E-09	4.535E-08	5.149E-08	6.628E-08	5.994E-08	4.509E-08	3.515E-08	
W	72	1.644E-09	2.240E-08	3.918E-08	3.543E-08	3.641E-08	3.250E-08	2.425E-08	1.980E-08	
WNW	57	1.405E-10	2.914E-09	1.107E-08	1.863E-08	2.778E-08	3.228E-08	2.717E-08	2.360E-08	
NW	70	1.042E-10	2.245E-09	3.302E-09	4.037E-09	6.272E-09	1.144E-08	1.412E-08	1.484E-08	
NNW	46	5.118E-11	1.608E-09	5.827E-10	1.004E-09	2.590E-09	5.996E-09	7.626E-09	8.009E-09	
AVERAGE	2083	1.295E-09	2.800E-08	3.378E-08	3.670E-08	4.097E-08	3.912E-08	3.232E-08	2.753E-08	

Pilgrim 1st Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	73	1.187E-08	1.085E-08	9.887E-09	9.039E-09	8.279E-09	5.641E-09	4.163E-09	2.630E-09	
NNE	129	1.659E-08	1.544E-08	1.428E-08	1.322E-08	1.223E-08	8.517E-09	6.332E-09	4.022E-09	
NE	157	1.737E-08	1.645E-08	1.544E-08	1.448E-08	1.354E-08	9.749E-09	7.412E-09	4.869E-09	
ENE	212	2.279E-08	2.109E-08	1.947E-08	1.804E-08	1.670E-08	1.176E-08	8.875E-09	5.798E-09	
E	325	3.279E-08	3.030E-08	2.790E-08	2.575E-08	2.374E-08	1.647E-08	1.227E-08	7.850E-09	
ESE	366	3.973E-08	3.607E-08	3.279E-08	2.998E-08	2.743E-08	1.868E-08	1.383E-08	8.826E-09	
SE	188	2.539E-08	2.298E-08	2.082E-08	1.896E-08	1.730E-08	1.164E-08	8.531E-09	5.351E-09	
SSE	89	2.526E-08	2.123E-08	1.819E-08	1.582E-08	1.393E-08	8.519E-09	5.994E-09	3.854E-09	
S	71	3.289E-08	2.639E-08	2.184E-08	1.846E-08	1.589E-08	9.144E-09	6.228E-09	3.639E-09	
SSW	73	4.623E-08	3.672E-08	3.012E-08	2.525E-08	2.160E-08	1.215E-08	8.143E-09	4.650E-09	
SW	81	2.038E-08	1.674E-08	1.410E-08	1.209E-08	1.052E-08	6.212E-09	4.252E-09	2.471E-09	
WSW	74	2.828E-08	2.338E-08	1.977E-08	1.699E-08	1.482E-08	8.803E-09	6.055E-09	3.547E-09	
W	72	1.637E-08	1.381E-08	1.185E-08	1.030E-08	9.067E-09	6.356E-09	4.284E-09	2.460E-09	
WNW	57	2.025E-08	1.753E-08	1.533E-08	1.355E-08	1.207E-08	7.192E-09	5.619E-09	3.316E-09	
NW	70	1.448E-08	1.386E-08	1.314E-08	1.245E-08	1.173E-08	1.162E-08	8.508E-09	5.822E-09	
NNW	46	7.742E-09	7.303E-09	6.823E-09	6.370E-09	5.929E-09	4.211E-09	3.393E-09	3.181E-09	
AVERAGE	2083	2.365E-08	2.063E-08	1.823E-08	1.630E-08	1.467E-08	9.792E-09	7.118E-09	4.518E-09	

Pilgrim 1st Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	73	1.892E-09	1.463E-09	1.186E-09	9.942E-10	8.505E-10	1.005E-09	8.819E-10	
NNE	129	2.885E-09	2.222E-09	1.797E-09	1.502E-09	1.280E-09	1.116E-09	9.862E-10	
NE	157	3.572E-09	2.794E-09	2.284E-09	1.927E-09	1.656E-09	1.454E-09	1.292E-09	
ENE	212	4.248E-09	3.421E-09	3.043E-09	2.552E-09	2.182E-09	1.907E-09	1.688E-09	
E	325	5.675E-09	4.400E-09	4.119E-09	3.429E-09	2.915E-09	2.536E-09	2.236E-09	
ESE	366	6.382E-09	5.408E-09	4.370E-09	3.654E-09	3.118E-09	2.720E-09	2.405E-09	
SE	188	3.824E-09	3.408E-09	2.725E-09	2.259E-09	1.913E-09	1.659E-09	1.459E-09	
SSE	89	2.694E-09	2.048E-09	1.644E-09	1.368E-09	1.163E-09	1.011E-09	8.916E-10	
S	71	2.506E-09	1.887E-09	1.507E-09	1.248E-09	1.055E-09	9.132E-10	8.017E-10	
SSW	73	3.159E-09	2.355E-09	1.866E-09	1.535E-09	1.291E-09	1.114E-09	9.743E-10	
SW	81	1.699E-09	1.277E-09	1.017E-09	8.401E-10	7.213E-10	6.234E-10	5.468E-10	
WSW	74	2.443E-09	1.855E-09	1.571E-09	1.291E-09	1.085E-09	9.468E-10	8.266E-10	
W	72	1.676E-09	1.252E-09	9.921E-10	8.170E-10	6.997E-10	6.041E-10	5.290E-10	
WNW	57	2.287E-09	1.781E-09	1.490E-09	1.247E-09	1.044E-09	8.982E-10	7.836E-10	
NW	70	4.080E-09	3.166E-09	2.554E-09	2.321E-09	1.947E-09	1.676E-09	1.463E-09	
NNW	46	2.168E-09	1.618E-09	1.283E-09	1.055E-09	8.875E-10	7.654E-10	6.693E-10	
AVERAGE	2083	3.199E-09	2.522E-09	2.090E-09	1.752E-09	1.488E-09	1.309E-09	1.152E-09	

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

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	169	1.536E-09	4.595E-08	3.101E-08	2.245E-08	2.193E-08	2.458E-08	2.501E-08	2.374E-08	
NNE	327	9.682E-10	3.074E-08	2.386E-08	2.114E-08	2.588E-08	3.661E-08	3.986E-08	3.883E-08	
NE	155	7.338E-10	2.627E-08	2.329E-08	1.652E-08	1.386E-08	1.328E-08	1.339E-08	1.290E-08	
ENE	120	4.969E-10	1.937E-08	1.675E-08	1.045E-08	8.098E-09	7.695E-09	8.178E-09	8.204E-09	
E	123	1.064E-09	3.340E-08	1.902E-08	1.145E-08	1.006E-08	1.101E-08	1.171E-08	1.153E-08	
ESE	137	1.058E-09	3.659E-08	2.615E-08	1.847E-08	1.556E-08	1.511E-08	1.531E-08	1.470E-08	
SE	96	1.135E-09	3.729E-08	1.926E-08	1.450E-08	1.357E-08	1.739E-08	1.328E-08	1.291E-08	
SSE	158	7.640E-09	2.074E-07	1.079E-07	7.683E-08	8.333E-08	6.835E-08	5.463E-08	4.433E-08	
S	112	6.617E-09	1.276E-07	1.008E-07	1.644E-07	1.372E-07	1.126E-07	8.242E-08	6.043E-08	
SSW	119	8.710E-09	1.373E-07	1.521E-07	1.469E-07	1.655E-07	1.080E-07	6.851E-08	4.847E-08	
SW	56	9.254E-09	7.408E-08	5.649E-08	6.016E-08	5.312E-08	4.189E-08	3.126E-08	2.431E-08	
WSW	54	1.301E-08	1.050E-07	5.358E-08	4.692E-08	5.815E-08	5.156E-08	3.862E-08	3.000E-08	
W	103	1.079E-08	1.360E-07	1.002E-07	6.912E-08	6.671E-08	5.602E-08	4.099E-08	3.329E-08	
WNW	163	3.529E-09	5.104E-08	8.037E-08	7.815E-08	9.187E-08	9.026E-08	7.260E-08	6.175E-08	
NW	136	1.773E-09	3.178E-08	2.006E-08	1.611E-08	2.039E-08	2.888E-08	3.065E-08	2.922E-08	
NNW	72	1.499E-10	5.088E-09	4.977E-09	5.117E-09	6.625E-09	1.018E-08	1.166E-08	1.175E-08	
AVERAGE	2100	4.279E-09	6.906E-08	5.223E-08	4.867E-08	4.949E-08	4.334E-08	3.488E-08	2.915E-08	

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	169	2.180E-08	1.987E-08	1.812E-08	1.661E-08	1.524E-08	1.048E-08	7.811E-09	5.023E-09	
NNE	327	3.603E-08	3.302E-08	3.020E-08	2.772E-08	2.546E-08	1.750E-08	1.298E-08	8.276E-09	
NE	155	1.205E-08	1.123E-08	1.046E-08	9.783E-09	9.143E-09	6.728E-09	5.278E-09	3.674E-09	
ENE	120	7.887E-09	7.512E-09	7.127E-09	6.769E-09	6.402E-09	4.868E-09	3.879E-09	2.746E-09	
E	123	1.087E-08	1.013E-08	9.406E-09	8.753E-09	8.128E-09	5.819E-09	4.460E-09	2.992E-09	
ESE	137	1.363E-08	1.258E-08	1.161E-08	1.076E-08	9.960E-09	7.029E-09	5.329E-09	3.521E-09	
SE	96	1.200E-08	1.105E-08	1.017E-08	9.385E-09	8.656E-09	6.032E-09	4.530E-09	2.949E-09	
SSE	158	3.676E-08	3.115E-08	2.687E-08	2.349E-08	2.076E-08	1.287E-08	9.121E-09	5.994E-09	
S	112	4.626E-08	3.695E-08	3.046E-08	2.566E-08	2.201E-08	1.249E-08	8.384E-09	4.782E-09	
SSW	119	3.671E-08	2.911E-08	2.388E-08	2.006E-08	1.717E-08	9.708E-09	6.531E-09	3.755E-09	
SW	56	1.956E-08	1.620E-08	1.373E-08	1.184E-08	1.034E-08	6.188E-09	4.285E-09	2.540E-09	
WSW	54	2.406E-08	1.985E-08	1.676E-08	1.441E-08	1.256E-08	7.447E-09	5.103E-09	2.964E-09	
W	103	2.753E-08	2.325E-08	2.000E-08	1.746E-08	1.540E-08	1.157E-08	7.963E-09	4.691E-09	
WNW	163	5.251E-08	4.525E-08	3.621E-08	3.198E-08	2.850E-08	1.890E-08	1.366E-08	8.261E-09	
NW	136	2.671E-08	2.418E-08	2.189E-08	1.991E-08	1.815E-08	1.560E-08	1.109E-08	7.433E-09	
NNW	72	1.117E-08	1.045E-08	9.733E-09	9.078E-09	8.459E-09	6.108E-09	5.126E-09	6.331E-09	
AVERAGE	2100	2.472E-08	2.136E-08	1.854E-08	1.648E-08	1.477E-08	9.959E-09	7.221E-09	4.746E-09	

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	169	3.655E-09	2.850E-09	2.324E-09	1.959E-09	1.684E-09	1.897E-09	1.668E-09		
NNE	327	5.980E-09	4.636E-09	3.765E-09	3.162E-09	2.708E-09	2.370E-09	2.102E-09		
NE	155	2.822E-09	2.285E-09	1.912E-09	1.647E-09	1.443E-09	1.287E-09	1.161E-09		
ENE	120	2.128E-09	1.832E-09	1.863E-09	1.599E-09	1.397E-09	1.242E-09	1.117E-09		
E	123	2.244E-09	1.788E-09	2.029E-09	1.721E-09	1.487E-09	1.311E-09	1.170E-09		
ESE	137	2.602E-09	2.322E-09	1.898E-09	1.602E-09	1.379E-09	1.212E-09	1.078E-09		
SE	96	2.159E-09	2.203E-09	1.783E-09	1.493E-09	1.276E-09	1.114E-09	9.858E-10		
SSE	158	4.199E-09	3.196E-09	2.570E-09	2.140E-09	1.819E-09	1.581E-09	1.393E-09		
S	112	3.255E-09	2.431E-09	1.929E-09	1.589E-09	1.340E-09	1.158E-09	1.016E-09		
SSW	119	2.579E-09	1.940E-09	1.547E-09	1.282E-09	1.085E-09	9.419E-10	8.293E-10		
SW	56	1.768E-09	1.339E-09	1.073E-09	8.911E-10	7.695E-10	6.674E-10	5.872E-10		
WSW	54	2.038E-09	1.542E-09	1.279E-09	1.053E-09	8.861E-10	7.714E-10	6.752E-10		
W	103	3.258E-09	2.468E-09	1.977E-09	1.643E-09	1.506E-09	1.306E-09	1.149E-09		
WNW	163	5.808E-09	4.712E-09	4.253E-09	3.715E-09	3.132E-09	2.705E-09	2.370E-09		
NW	136	5.184E-09	4.054E-09	3.286E-09	3.114E-09	2.617E-09	2.254E-09	1.970E-09		
NNW	72	4.379E-09	3.302E-09	2.638E-09	2.183E-09	1.845E-09	1.594E-09	1.397E-09		
AVERAGE	2100	3.379E-09	2.681E-09	2.258E-09	1.925E-09	1.648E-09	1.463E-09	1.292E-09		

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

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	281	2.977E-09	9.570E-08	4.574E-08	2.954E-08	3.004E-08	3.507E-08	3.614E-08	3.458E-08
NNE	458	2.660E-09	8.229E-08	4.708E-08	3.457E-08	3.690E-08	4.659E-08	4.994E-08	4.872E-08
NE	253	1.808E-09	5.756E-08	3.231E-08	2.157E-08	2.046E-08	2.267E-08	2.342E-08	2.264E-08
ENE	135	9.089E-10	3.039E-08	1.747E-08	1.177E-08	1.085E-08	1.170E-08	1.223E-08	1.201E-08
E	85	2.625E-10	1.299E-08	7.443E-09	4.739E-09	5.085E-09	7.790E-09	9.528E-09	1.002E-08
ESE	88	6.297E-10	2.348E-08	1.289E-08	8.490E-09	8.034E-09	9.600E-09	1.064E-08	1.073E-08
SE	84	1.277E-09	5.776E-08	3.785E-08	1.857E-08	1.543E-08	2.099E-08	1.580E-08	1.575E-08
SSE	127	6.243E-09	2.293E-07	1.189E-07	7.167E-08	8.304E-08	7.009E-08	5.601E-08	4.525E-08
S	77	3.450E-09	7.503E-08	8.029E-08	1.222E-07	1.009E-07	8.258E-08	6.057E-08	4.448E-08
SSW	109	7.371E-09	1.382E-07	9.858E-08	1.124E-07	1.603E-07	1.265E-07	8.169E-08	5.857E-08
SW	90	1.396E-08	1.285E-07	1.046E-07	9.015E-08	7.648E-08	6.019E-08	4.605E-08	3.648E-08
WSW	63	8.145E-09	6.663E-08	5.226E-08	5.051E-08	7.074E-08	7.037E-08	5.434E-08	4.289E-08
W	69	4.479E-09	6.971E-08	8.272E-08	4.936E-08	4.660E-08	4.606E-08	3.798E-08	3.309E-08
WNW	72	3.170E-10	6.028E-09	2.843E-08	3.860E-08	5.099E-08	5.492E-08	4.598E-08	4.021E-08
NW	131	1.311E-09	2.329E-08	1.872E-08	1.684E-08	1.915E-08	2.390E-08	2.459E-08	2.325E-08
NNW	54	4.624E-11	2.724E-09	5.251E-09	3.761E-09	3.650E-09	5.293E-09	6.481E-09	6.828E-09
AVERAGE	2176	3.490E-09	6.873E-08	4.941E-08	4.280E-08	4.616E-08	4.340E-08	3.571E-08	3.034E-08

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	281	3.191E-08	2.921E-08	2.672E-08	2.455E-08	2.254E-08	1.553E-08	1.157E-08	7.432E-09
NNE	458	4.541E-08	4.187E-08	3.852E-08	3.556E-08	3.280E-08	2.289E-08	1.718E-08	1.114E-08
NE	253	2.114E-08	1.959E-08	1.815E-08	1.687E-08	1.567E-08	1.126E-08	8.672E-09	5.870E-09
ENE	135	1.134E-08	1.063E-08	9.941E-09	9.323E-09	8.720E-09	6.394E-09	4.978E-09	3.413E-09
E	85	9.784E-09	9.333E-09	8.812E-09	8.307E-09	7.794E-09	5.703E-09	4.391E-09	2.941E-09
ESE	88	1.026E-08	9.680E-09	9.083E-09	8.529E-09	7.978E-09	5.815E-09	4.488E-09	3.027E-09
SE	84	1.484E-08	1.377E-08	1.272E-08	1.176E-08	1.086E-08	7.587E-09	5.681E-09	3.667E-09
SSE	127	3.739E-08	3.160E-08	2.719E-08	2.372E-08	2.093E-08	1.291E-08	9.123E-09	5.982E-09
S	77	3.409E-08	2.725E-08	2.246E-08	1.891E-08	1.622E-08	9.193E-09	6.170E-09	3.520E-09
SSW	109	4.487E-08	3.589E-08	2.963E-08	2.501E-08	2.150E-08	1.228E-08	8.310E-09	4.823E-09
SW	90	2.975E-08	2.491E-08	2.129E-08	1.849E-08	1.625E-08	9.919E-09	6.954E-09	4.188E-09
WSW	63	3.478E-08	2.893E-08	2.457E-08	2.119E-08	1.853E-08	1.105E-08	7.616E-09	4.481E-09
W	69	2.859E-08	2.495E-08	2.200E-08	1.957E-08	1.754E-08	1.406E-08	9.689E-09	5.736E-09
WNW	72	3.487E-08	3.051E-08	2.472E-08	2.205E-08	1.982E-08	1.368E-08	1.007E-08	6.157E-09
NW	131	2.119E-08	1.921E-08	1.743E-08	1.591E-08	1.455E-08	1.302E-08	9.379E-09	6.684E-09
NNW	54	6.665E-09	6.374E-09	6.039E-09	5.717E-09	5.387E-09	4.001E-09	3.404E-09	4.350E-09
AVERAGE	2176	2.606E-08	2.273E-08	1.995E-08	1.784E-08	1.607E-08	1.096E-08	7.979E-09	5.213E-09

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	281	5.400E-09	4.206E-09	3.428E-09	2.888E-09	2.481E-09	2.933E-09	2.585E-09	
NNE	458	8.141E-09	6.363E-09	5.199E-09	4.388E-09	3.775E-09	3.316E-09	2.950E-09	
NE	253	4.424E-09	3.536E-09	2.933E-09	2.508E-09	2.183E-09	1.937E-09	1.738E-09	
ENE	135	2.588E-09	2.169E-09	2.084E-09	1.774E-09	1.537E-09	1.358E-09	1.214E-09	
E	85	2.189E-09	1.732E-09	1.823E-09	1.533E-09	1.314E-09	1.151E-09	1.021E-09	
ESE	88	2.265E-09	2.094E-09	1.716E-09	1.451E-09	1.251E-09	1.100E-09	9.788E-10	
SE	84	2.667E-09	2.536E-09	2.038E-09	1.696E-09	1.440E-09	1.252E-09	1.103E-09	
SSE	127	4.199E-09	3.201E-09	2.576E-09	2.147E-09	1.827E-09	1.591E-09	1.405E-09	
S	77	2.395E-09	1.789E-09	1.418E-09	1.169E-09	9.849E-10	8.515E-10	7.469E-10	
SSW	109	3.315E-09	2.495E-09	1.991E-09	1.650E-09	1.397E-09	1.212E-09	1.066E-09	
SW	90	2.941E-09	2.243E-09	1.805E-09	1.505E-09	1.309E-09	1.138E-09	1.003E-09	
WSW	63	3.092E-09	2.345E-09	1.958E-09	1.612E-09	1.357E-09	1.184E-09	1.036E-09	
W	69	3.971E-09	2.999E-09	2.397E-09	1.987E-09	1.747E-09	1.512E-09	1.327E-09	
WNW	72	4.348E-09	3.546E-09	3.151E-09	2.716E-09	2.280E-09	1.961E-09	1.711E-09	
NW	131	4.757E-09	3.853E-09	3.191E-09	3.534E-09	2.988E-09	2.585E-09	2.268E-09	
NNW	54	3.022E-09	2.286E-09	1.831E-09	1.519E-09	1.286E-09	1.114E-09	9.782E-10	
AVERAGE	2176	3.732E-09	2.962E-09	2.471E-09	2.130E-09	1.822E-09	1.637E-09	1.446E-09	

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

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	104	3.671E-10	1.188E-08	9.842E-09	7.538E-09	8.841E-09	1.315E-08	1.484E-08	1.471E-08	
NNE	319	5.261E-10	2.391E-08	2.981E-08	2.753E-08	3.231E-08	4.363E-08	4.629E-08	4.427E-08	
NE	285	8.609E-10	3.041E-08	4.568E-08	3.700E-08	3.493E-08	3.751E-08	3.804E-08	3.623E-08	
ENE	223	2.240E-10	1.138E-08	2.437E-08	2.062E-08	2.021E-08	2.487E-08	2.711E-08	2.662E-08	
E	261	1.009E-09	3.653E-08	3.940E-08	2.988E-08	2.685E-08	2.850E-08	3.010E-08	2.962E-08	
ESE	224	7.570E-10	2.470E-08	1.580E-08	1.386E-08	1.586E-08	2.295E-08	2.640E-08	2.652E-08	
SE	190	1.683E-09	5.398E-08	4.051E-08	2.685E-08	2.616E-08	3.247E-08	2.536E-08	2.365E-08	
SSE	89	1.821E-09	4.623E-08	3.854E-08	5.367E-08	5.744E-08	4.497E-08	3.472E-08	2.751E-08	
S	54	1.271E-09	2.318E-08	5.190E-08	9.001E-08	7.325E-08	6.201E-08	4.706E-08	3.473E-08	
SSW	75	2.358E-09	3.678E-08	7.294E-08	1.021E-07	1.525E-07	1.239E-07	8.037E-08	5.756E-08	
SW	39	2.437E-11	4.558E-09	3.483E-08	4.025E-08	3.363E-08	2.601E-08	1.977E-08	1.565E-08	
WSW	45	6.632E-10	1.235E-08	3.748E-08	3.833E-08	4.690E-08	4.251E-08	3.275E-08	2.604E-08	
W	49	1.321E-09	1.685E-08	2.433E-08	3.075E-08	3.489E-08	3.299E-08	2.530E-08	2.112E-08	
WNW	45	3.198E-10	6.166E-09	1.545E-08	1.893E-08	2.471E-08	2.624E-08	2.169E-08	1.883E-08	
NW	83	3.238E-10	6.845E-09	7.085E-09	7.641E-09	9.962E-09	1.377E-08	1.444E-08	1.369E-08	
NNW	58	4.176E-11	1.807E-09	3.291E-09	3.232E-09	4.299E-09	7.099E-09	8.301E-09	8.391E-09	
AVERAGE	2143	8.482E-10	2.172E-08	3.070E-08	3.426E-08	3.767E-08	3.641E-08	3.078E-08	2.657E-08	

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE χ/Q BEFORE DEPLETION (SPLIT-H 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	104	1.379E-08	1.272E-08	1.167E-08	1.074E-08	9.874E-09	6.799E-09	5.037E-09	3.194E-09	
NNE	319	4.055E-08	3.673E-08	3.323E-08	3.020E-08	2.751E-08	1.842E-08	1.342E-08	8.329E-09	
NE	285	3.338E-08	3.053E-08	2.790E-08	2.560E-08	2.351E-08	1.617E-08	1.204E-08	7.727E-09	
ENE	223	2.484E-08	2.289E-08	2.104E-08	1.940E-08	1.788E-08	1.241E-08	9.260E-09	5.944E-09	
E	261	2.793E-08	2.615E-08	2.444E-08	2.291E-08	2.143E-08	1.562E-08	1.204E-08	8.069E-09	
ESE	224	2.500E-08	2.327E-08	2.158E-08	2.005E-08	1.860E-08	1.318E-08	9.999E-09	6.604E-09	
SE	190	2.134E-08	1.916E-08	1.725E-08	1.562E-08	1.419E-08	9.442E-09	6.878E-09	4.287E-09	
SSE	89	2.243E-08	1.878E-08	1.605E-08	1.393E-08	1.225E-08	7.514E-09	5.292E-09	3.524E-09	
S	54	2.653E-08	2.116E-08	1.742E-08	1.466E-08	1.258E-08	7.151E-09	4.801E-09	2.731E-09	
SSW	75	4.399E-08	3.507E-08	2.883E-08	2.421E-08	2.072E-08	1.165E-08	7.774E-09	4.404E-09	
SW	39	1.273E-08	1.064E-08	9.076E-09	7.867E-09	6.916E-09	4.223E-09	2.969E-09	1.796E-09	
WSW	45	2.124E-08	1.777E-08	1.517E-08	1.315E-08	1.155E-08	7.030E-09	4.908E-09	2.929E-09	
W	49	1.774E-08	1.515E-08	1.314E-08	1.154E-08	1.024E-08	8.095E-09	5.503E-09	3.176E-09	
WNW	45	1.623E-08	1.412E-08	1.242E-08	1.103E-08	9.881E-09	6.069E-09	4.843E-09	2.922E-09	
NW	83	1.246E-08	1.126E-08	1.018E-08	9.256E-09	8.436E-09	7.200E-09	5.077E-09	3.303E-09	
NNW	58	7.959E-09	7.406E-09	6.849E-09	6.341E-09	5.867E-09	4.120E-09	3.325E-09	3.369E-09	
AVERAGE	2143	2.301E-08	2.017E-08	1.789E-08	1.603E-08	1.446E-08	9.693E-09	7.073E-09	4.519E-09	

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE χ/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	104	2.299E-09	1.776E-09	1.439E-09	1.206E-09	1.031E-09	1.120E-09	9.813E-10		
NNE	319	5.918E-09	4.534E-09	3.652E-09	3.046E-09	2.593E-09	2.259E-09	1.995E-09		
NE	285	5.607E-09	4.361E-09	3.551E-09	2.988E-09	2.564E-09	2.248E-09	1.997E-09		
ENE	223	4.310E-09	3.440E-09	3.047E-09	2.551E-09	2.180E-09	1.905E-09	1.686E-09		
E	261	5.982E-09	4.714E-09	4.682E-09	3.930E-09	3.364E-09	2.943E-09	2.608E-09		
ESE	224	4.873E-09	4.348E-09	3.547E-09	2.990E-09	2.569E-09	2.255E-09	2.003E-09		
SE	190	3.060E-09	2.792E-09	2.238E-09	1.859E-09	1.577E-09	1.370E-09	1.207E-09		
SSE	89	2.472E-09	1.883E-09	1.514E-09	1.261E-09	1.073E-09	9.338E-10	8.238E-10		
S	54	1.853E-09	1.379E-09	1.092E-09	8.970E-10	7.537E-10	6.488E-10	5.670E-10		
SSW	75	2.976E-09	2.209E-09	1.744E-09	1.431E-09	1.202E-09	1.036E-09	9.062E-10		
SW	39	1.263E-09	9.622E-10	7.738E-10	6.441E-10	5.682E-10	4.920E-10	4.321E-10		
WSW	45	2.041E-09	1.568E-09	1.375E-09	1.132E-09	9.529E-10	8.390E-10	7.325E-10		
W	49	2.169E-09	1.621E-09	1.285E-09	1.058E-09	9.325E-10	8.017E-10	6.995E-10		
WNW	45	2.046E-09	1.639E-09	1.424E-09	1.214E-09	1.019E-09	8.764E-10	7.650E-10		
NW	83	2.283E-09	1.755E-09	1.409E-09	1.247E-09	1.046E-09	9.006E-10	7.863E-10		
NNW	58	2.306E-09	1.726E-09	1.371E-09	1.129E-09	9.508E-10	8.199E-10	7.172E-10		
AVERAGE	2143	3.216E-09	2.544E-09	2.134E-09	1.787E-09	1.524E-09	1.341E-09	1.182E-09		

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

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	627	1.244E-09	3.960E-08	2.414E-08	1.705E-08	1.754E-08	2.132E-08	2.239E-08	2.156E-08	
NNE	1233	1.125E-09	3.704E-08	2.812E-08	2.332E-08	2.657E-08	3.567E-08	3.856E-08	3.752E-08	
NE	850	9.230E-10	3.059E-08	2.687E-08	2.033E-08	1.940E-08	2.195E-08	2.310E-08	2.251E-08	
ENE	690	5.033E-10	1.860E-08	1.892E-08	1.509E-08	1.448E-08	1.683E-08	1.808E-08	1.778E-08	
E	794	9.869E-10	3.425E-08	2.567E-08	1.785E-08	1.688E-08	1.987E-08	2.163E-08	2.146E-08	
ESE	815	1.310E-09	4.357E-08	2.522E-08	1.933E-08	1.959E-08	2.320E-08	2.449E-08	2.373E-08	
SE	558	1.160E-09	4.062E-08	3.109E-08	2.137E-08	2.044E-08	2.593E-08	2.094E-08	2.001E-08	
SSE	463	3.089E-09	9.483E-08	6.384E-08	6.621E-08	7.187E-08	5.827E-08	4.603E-08	3.701E-08	
S	314	2.832E-09	5.756E-08	7.860E-08	1.211E-07	9.929E-08	8.288E-08	6.180E-08	4.553E-08	
SSW	376	4.804E-09	8.126E-08	9.819E-08	1.159E-07	1.608E-07	1.232E-07	7.908E-08	5.637E-08	
SW	266	7.074E-09	6.167E-08	5.951E-08	6.490E-08	5.578E-08	4.342E-08	3.264E-08	2.555E-08	
WSW	236	4.543E-09	4.010E-08	4.512E-08	4.679E-08	6.053E-08	5.614E-08	4.275E-08	3.356E-08	
W	293	4.548E-09	6.118E-08	5.837E-08	4.580E-08	4.612E-08	4.191E-08	3.216E-08	2.687E-08	
WNN	337	1.068E-09	1.642E-08	3.165E-08	3.609E-08	4.603E-08	4.808E-08	3.935E-08	3.394E-08	
NW	420	8.805E-10	1.609E-08	1.234E-08	1.121E-08	1.398E-08	1.952E-08	2.096E-08	2.026E-08	
NNW	230	7.193E-11	2.804E-09	3.545E-09	3.287E-09	4.289E-09	7.129E-09	8.499E-09	8.727E-09	
AVERAGE	8502	2.260E-09	4.226E-08	3.945E-08	4.035E-08	4.335E-08	4.033E-08	3.328E-08	2.827E-08	

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	627	1.994E-08	1.825E-08	1.668E-08	1.530E-08	1.405E-08	9.661E-09	7.180E-09	4.592E-09	
NNE	1233	3.481E-08	3.191E-08	2.919E-08	2.680E-08	2.462E-08	1.691E-08	1.254E-08	7.980E-09	
NE	850	2.106E-08	1.951E-08	1.804E-08	1.674E-08	1.551E-08	1.101E-08	8.374E-09	5.551E-09	
ENE	690	1.669E-08	1.551E-08	1.438E-08	1.337E-08	1.241E-08	8.850E-09	6.740E-09	4.471E-09	
E	794	2.026E-08	1.891E-08	1.757E-08	1.637E-08	1.522E-08	1.087E-08	8.267E-09	5.449E-09	
ESE	815	2.203E-08	2.029E-08	1.867E-08	1.724E-08	1.591E-08	1.112E-08	8.374E-09	5.471E-09	
SE	558	1.836E-08	1.672E-08	1.522E-08	1.391E-08	1.273E-08	8.665E-09	6.397E-09	4.059E-09	
SSE	463	3.049E-08	2.571E-08	2.210E-08	1.926E-08	1.699E-08	1.046E-08	7.390E-09	4.844E-09	
S	314	3.490E-08	2.790E-08	2.301E-08	1.939E-08	1.666E-08	9.480E-09	6.386E-09	3.662E-09	
SSW	376	4.297E-08	3.421E-08	2.813E-08	2.364E-08	2.026E-08	1.145E-08	7.695E-09	4.411E-09	
SW	266	2.065E-08	1.716E-08	1.458E-08	1.260E-08	1.103E-08	6.653E-09	4.628E-09	2.757E-09	
WSW	236	2.712E-08	2.252E-08	1.910E-08	1.646E-08	1.439E-08	8.595E-09	5.930E-09	3.486E-09	
W	293	2.260E-08	1.933E-08	1.678E-08	1.475E-08	1.309E-08	1.006E-08	6.883E-09	4.030E-09	
WNN	337	2.912E-08	2.526E-08	2.216E-08	1.964E-08	1.756E-08	1.072E-08	8.549E-09	5.165E-09	
NW	420	1.871E-08	1.712E-08	1.566E-08	1.437E-08	1.321E-08	1.185E-08	8.503E-09	5.806E-09	
NNW	230	8.368E-09	7.869E-09	7.348E-09	6.865E-09	6.400E-09	4.603E-09	3.807E-09	4.306E-09	
AVERAGE	8502	2.426E-08	2.114E-08	1.866E-08	1.667E-08	1.500E-08	1.006E-08	7.353E-09	4.753E-09	

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	627	3.328E-09	2.586E-09	2.105E-09	1.771E-09	1.519E-09	1.748E-09	1.537E-09		
NNE	1233	5.759E-09	4.461E-09	3.622E-09	3.040E-09	2.602E-09	2.277E-09	2.019E-09		
NE	850	4.118E-09	3.253E-09	2.677E-09	2.274E-09	1.967E-09	1.736E-09	1.551E-09		
ENE	690	3.315E-09	2.713E-09	2.507E-09	2.117E-09	1.822E-09	1.601E-09	1.425E-09		
E	794	4.013E-09	3.151E-09	3.157E-09	2.648E-09	2.266E-09	1.981E-09	1.755E-09		
ESE	815	4.014E-09	3.530E-09	2.873E-09	2.416E-09	2.072E-09	1.815E-09	1.611E-09		
SE	558	2.924E-09	2.732E-09	2.194E-09	1.825E-09	1.550E-09	1.348E-09	1.187E-09		
SSE	463	3.395E-09	2.585E-09	2.078E-09	1.731E-09	1.472E-09	1.281E-09	1.130E-09		
S	314	2.498E-09	1.868E-09	1.484E-09	1.223E-09	1.031E-09	8.913E-10	7.814E-10		
SSW	376	3.009E-09	2.252E-09	1.789E-09	1.476E-09	1.245E-09	1.077E-09	9.449E-10		
SW	266	1.924E-09	1.460E-09	1.171E-09	9.734E-10	8.451E-10	7.328E-10	6.445E-10		
WSW	236	2.408E-09	1.831E-09	1.549E-09	1.274E-09	1.072E-09	9.371E-10	8.192E-10		
W	293	2.778E-09	2.092E-09	1.669E-09	1.381E-09	1.226E-09	1.060E-09	9.292E-10		
WNN	337	3.623E-09	2.921E-09	2.581E-09	2.224E-09	1.870E-09	1.611E-09	1.408E-09		
NW	420	4.073E-09	3.206E-09	2.609E-09	2.557E-09	2.152E-09	1.856E-09	1.624E-09		
NNW	230	2.968E-09	2.232E-09	1.780E-09	1.471E-09	1.242E-09	1.073E-09	9.402E-10		
AVERAGE	8502	3.384E-09	2.680E-09	2.240E-09	1.900E-09	1.622E-09	1.439E-09	1.269E-09		

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

Pilgrim 1st Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	73	4.005E-11	3.100E-09	9.331E-09	8.307E-09	8.949E-09	1.203E-08	1.305E-08	1.262E-08	
NNE	129	2.953E-10	9.633E-09	1.085E-08	9.418E-09	1.054E-08	1.507E-08	1.727E-08	1.735E-08	
NE	157	2.534E-10	6.972E-09	5.435E-09	5.699E-09	7.899E-09	1.387E-08	1.706E-08	1.778E-08	
ENE	212	3.734E-10	1.294E-08	1.698E-08	1.749E-08	1.872E-08	2.300E-08	2.467E-08	2.412E-08	
E	325	1.643E-09	5.493E-08	3.719E-08	2.554E-08	2.573E-08	3.242E-08	3.535E-08	3.472E-08	
ESE	366	2.843E-09	9.094E-08	4.673E-08	3.704E-08	3.940E-08	4.558E-08	4.591E-08	4.310E-08	
SE	188	1.453E-09	4.979E-08	3.957E-08	3.039E-08	2.970E-08	3.694E-08	2.924E-08	2.755E-08	
SSE	89	2.044E-09	6.853E-08	6.819E-08	6.239E-08	6.311E-08	4.890E-08	3.784E-08	2.993E-08	
S	71	1.449E-09	3.395E-08	8.162E-08	1.080E-07	8.572E-08	7.375E-08	5.609E-08	4.113E-08	
SSW	73	1.730E-09	2.864E-08	6.932E-08	1.020E-07	1.643E-07	1.313E-07	8.215E-08	5.712E-08	
SW	81	6.643E-09	5.299E-08	5.451E-08	6.851E-08	5.940E-08	4.490E-08	3.264E-08	2.485E-08	
WSW	74	9.797E-12	6.138E-09	4.524E-08	5.131E-08	6.597E-08	5.929E-08	4.421E-08	3.412E-08	
W	72	1.644E-09	2.239E-08	3.910E-08	3.534E-08	3.629E-08	3.229E-08	2.396E-08	1.942E-08	
WNW	57	1.405E-10	2.912E-09	1.106E-08	1.861E-08	2.773E-08	3.209E-08	2.684E-08	2.312E-08	
NW	70	1.042E-10	2.244E-09	3.293E-09	4.024E-09	6.256E-09	1.139E-08	1.400E-08	1.460E-08	
NNW	46	5.118E-11	1.607E-09	5.808E-10	1.003E-09	2.588E-09	5.977E-09	7.570E-09	7.907E-09	
AVERAGE	2083	1.295E-09	2.798E-08	3.369E-08	3.657E-08	4.077E-08	3.868E-08	3.174E-08	2.684E-08	

Pilgrim 1st Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	73	1.162E-08	1.054E-08	9.541E-09	8.660E-09	7.875E-09	5.177E-09	3.691E-09	2.190E-09	
NNE	129	1.633E-08	1.511E-08	1.390E-08	1.279E-08	1.176E-08	7.914E-09	5.683E-09	3.376E-09	
NE	157	1.711E-08	1.612E-08	1.505E-08	1.404E-08	1.305E-08	9.129E-09	6.741E-09	4.188E-09	
ENE	212	2.246E-08	2.071E-08	1.904E-08	1.757E-08	1.619E-08	1.114E-08	8.210E-09	5.120E-09	
E	325	3.237E-08	2.978E-08	2.728E-08	2.505E-08	2.298E-08	1.552E-08	1.126E-08	6.862E-09	
ESE	366	3.916E-08	3.539E-08	3.203E-08	2.913E-08	2.652E-08	1.758E-08	1.267E-08	7.680E-09	
SE	188	2.496E-08	2.247E-08	2.024E-08	1.833E-08	1.662E-08	1.082E-08	7.671E-09	4.516E-09	
SSE	89	2.428E-08	2.016E-08	1.706E-08	1.465E-08	1.273E-08	7.312E-09	4.857E-09	2.763E-09	
S	71	3.127E-08	2.477E-08	2.021E-08	1.685E-08	1.431E-08	7.687E-09	4.907E-09	2.553E-09	
SSW	73	4.255E-08	3.312E-08	2.662E-08	2.188E-08	1.835E-08	9.411E-09	5.803E-09	2.866E-09	
SW	81	1.961E-08	1.596E-08	1.331E-08	1.130E-08	9.738E-09	5.492E-09	3.601E-09	1.936E-09	
WSW	74	2.714E-08	2.219E-08	1.854E-08	1.575E-08	1.357E-08	7.585E-09	4.916E-09	2.569E-09	
W	72	1.593E-08	1.332E-08	1.133E-08	9.767E-09	8.515E-09	5.504E-09	3.533E-09	1.864E-09	
WNW	57	1.966E-08	1.685E-08	1.459E-08	1.276E-08	1.125E-08	6.316E-09	4.657E-09	2.478E-09	
NW	70	1.408E-08	1.327E-08	1.236E-08	1.147E-08	1.057E-08	8.710E-09	5.656E-09	3.123E-09	
NNW	46	7.596E-09	7.117E-09	6.603E-09	6.119E-09	5.652E-09	3.856E-09	2.963E-09	2.219E-09	
AVERAGE	2083	2.288E-08	1.981E-08	1.736E-08	1.538E-08	1.373E-08	8.698E-09	6.051E-09	3.519E-09	

Pilgrim 1st Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	73	1.485E-09	1.085E-09	8.319E-10	6.614E-10	5.365E-10	5.050E-10	4.144E-10		
NNE	129	2.275E-09	1.652E-09	1.264E-09	1.003E-09	8.130E-10	6.758E-10	5.703E-10		
NE	157	2.911E-09	2.162E-09	1.678E-09	1.348E-09	1.102E-09	9.221E-10	7.815E-10		
ENE	212	3.583E-09	2.742E-09	2.274E-09	1.816E-09	1.479E-09	1.233E-09	1.042E-09		
E	325	4.740E-09	3.518E-09	3.013E-09	2.396E-09	1.945E-09	1.620E-09	1.369E-09		
ESE	366	5.287E-09	4.162E-09	3.198E-09	2.549E-09	2.074E-09	1.730E-09	1.464E-09		
SE	188	3.042E-09	2.432E-09	1.835E-09	1.441E-09	1.158E-09	9.565E-10	8.026E-10		
SSE	89	1.772E-09	1.251E-09	9.400E-10	7.373E-10	5.929E-10	4.902E-10	4.123E-10		
S	71	1.593E-09	1.103E-09	8.175E-10	6.344E-10	5.056E-10	4.151E-10	3.472E-10		
SSW	73	1.720E-09	1.150E-09	8.279E-10	6.256E-10	4.866E-10	3.912E-10	3.210E-10		
SW	81	1.242E-09	8.775E-10	6.609E-10	5.199E-10	4.176E-10	3.470E-10	2.936E-10		
WSW	74	1.591E-09	1.083E-09	7.539E-10	5.688E-10	4.419E-10	3.407E-10	2.803E-10		
W	72	1.182E-09	8.290E-10	6.215E-10	4.870E-10	3.759E-10	2.981E-10	2.516E-10		
WNW	57	1.553E-09	1.074E-09	7.635E-10	5.106E-10	3.826E-10	3.058E-10	2.492E-10		
NW	70	1.920E-09	1.318E-09	9.581E-10	5.453E-10	4.218E-10	3.372E-10	2.746E-10		
NNW	46	1.348E-09	9.052E-10	6.509E-10	4.898E-10	3.784E-10	3.017E-10	2.450E-10		
AVERAGE	2083	2.328E-09	1.709E-09	1.318E-09	1.021E-09	8.196E-10	6.793E-10	5.699E-10		

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

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	169	1.536E-09	4.592E-08	3.094E-08	2.237E-08	2.185E-08	2.446E-08	2.482E-08	2.347E-08
NNE	327	9.682E-10	3.072E-08	2.380E-08	2.108E-08	2.580E-08	3.645E-08	3.958E-08	3.842E-08
NE	155	7.338E-10	2.626E-08	2.323E-08	1.645E-08	1.378E-08	1.318E-08	1.326E-08	1.272E-08
ENE	120	4.969E-10	1.935E-08	1.670E-08	1.040E-08	8.049E-09	7.648E-09	8.114E-09	8.113E-09
E	123	1.064E-09	3.338E-08	1.897E-08	1.140E-08	1.001E-08	1.094E-08	1.161E-08	1.136E-08
ESE	137	1.058E-09	3.656E-08	2.607E-08	1.836E-08	1.545E-08	1.499E-08	1.516E-08	1.452E-08
SE	96	1.135E-09	3.726E-08	1.921E-08	1.444E-08	1.348E-08	1.725E-08	1.313E-08	1.271E-08
SSE	158	7.640E-09	2.073E-07	1.075E-07	7.662E-08	8.301E-08	6.779E-08	5.384E-08	4.335E-08
S	112	6.617E-09	1.275E-07	1.005E-07	1.640E-07	1.365E-07	1.104E-07	7.881E-08	5.627E-08
SSW	119	8.710E-09	1.372E-07	1.517E-07	1.463E-07	1.642E-07	1.051E-07	6.552E-08	4.557E-08
SW	56	9.254E-09	7.399E-08	5.631E-08	5.995E-08	5.284E-08	4.137E-08	3.057E-08	2.349E-08
WSW	54	1.301E-08	1.049E-07	5.339E-08	4.677E-08	5.787E-08	5.082E-08	3.759E-08	2.878E-08
W	103	1.079E-08	1.359E-07	9.983E-08	6.885E-08	6.639E-08	5.552E-08	4.034E-08	3.249E-08
WNN	163	3.529E-09	5.100E-08	8.018E-08	7.792E-08	9.154E-08	8.962E-08	7.167E-08	6.051E-08
NW	136	1.773E-09	3.176E-08	2.000E-08	1.605E-08	2.033E-08	2.874E-08	3.035E-08	2.875E-08
NNW	72	1.499E-10	5.085E-09	4.965E-09	5.100E-09	6.602E-09	1.014E-08	1.156E-08	1.158E-08
AVERAGE	2100	4.279E-09	6.900E-08	5.208E-08	4.850E-08	4.923E-08	4.278E-08	3.412E-08	2.826E-08

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	169	2.144E-08	1.944E-08	1.762E-08	1.606E-08	1.464E-08	9.734E-09	7.003E-09	4.202E-09
NNE	327	3.549E-08	3.238E-08	2.947E-08	2.691E-08	2.459E-08	1.646E-08	1.189E-08	7.212E-09
NE	155	1.185E-08	1.098E-08	1.019E-08	9.484E-09	8.821E-09	6.326E-09	4.829E-09	3.174E-09
ENE	120	7.764E-09	7.358E-09	6.942E-09	6.554E-09	6.160E-09	4.528E-09	3.491E-09	2.327E-09
E	123	1.065E-08	9.858E-09	9.089E-09	8.399E-09	7.745E-09	5.356E-09	3.976E-09	2.522E-09
ESE	137	1.341E-08	1.233E-08	1.133E-08	1.046E-08	9.632E-09	6.623E-09	4.891E-09	3.072E-09
SE	96	1.175E-08	1.076E-08	9.835E-09	9.019E-09	8.264E-09	5.564E-09	4.040E-09	2.471E-09
SSE	158	3.564E-08	2.994E-08	2.560E-08	2.218E-08	1.943E-08	1.153E-08	7.845E-09	4.732E-09
S	112	4.205E-08	3.281E-08	2.643E-08	2.179E-08	1.831E-08	9.487E-09	5.922E-09	3.030E-09
SSW	119	3.394E-08	2.650E-08	2.141E-08	1.774E-08	1.498E-08	7.978E-09	5.111E-09	2.723E-09
SW	56	1.865E-08	1.524E-08	1.274E-08	1.083E-08	9.332E-09	5.211E-09	3.383E-09	1.787E-09
WSW	54	2.273E-08	1.847E-08	1.536E-08	1.300E-08	1.116E-08	6.157E-09	3.950E-09	2.047E-09
W	103	2.662E-08	2.227E-08	1.896E-08	1.639E-08	1.432E-08	9.953E-09	6.515E-09	3.505E-09
WNN	163	5.103E-08	4.358E-08	3.455E-08	3.022E-08	2.666E-08	1.672E-08	1.143E-08	6.262E-09
NW	136	2.608E-08	2.342E-08	2.102E-08	1.895E-08	1.712E-08	1.377E-08	9.291E-09	5.451E-09
NNW	72	1.094E-08	1.017E-08	9.399E-09	8.701E-09	8.045E-09	5.578E-09	4.457E-09	4.019E-09
AVERAGE	2100	2.375E-08	2.034E-08	1.750E-08	1.542E-08	1.370E-08	8.810E-09	6.127E-09	3.659E-09

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	169	2.858E-09	2.086E-09	1.597E-09	1.266E-09	1.025E-09	8.624E-10	7.141E-10	
NNE	327	4.973E-09	3.687E-09	2.869E-09	2.312E-09	1.901E-09	1.600E-09	1.365E-09	
NE	155	2.293E-09	1.746E-09	1.377E-09	1.121E-09	9.306E-10	7.893E-10	6.789E-10	
ENE	120	1.708E-09	1.394E-09	1.340E-09	1.098E-09	9.155E-10	7.788E-10	6.708E-10	
E	123	1.796E-09	1.362E-09	1.432E-09	1.155E-09	9.504E-10	7.995E-10	6.821E-10	
ESE	137	2.165E-09	1.816E-09	1.418E-09	1.146E-09	9.446E-10	7.963E-10	6.805E-10	
SE	96	1.707E-09	1.596E-09	1.220E-09	9.671E-10	7.823E-10	6.480E-10	5.445E-10	
SSE	158	3.104E-09	2.225E-09	1.692E-09	1.337E-09	1.081E-09	8.960E-10	7.546E-10	
S	112	1.907E-09	1.338E-09	1.007E-09	7.925E-10	6.408E-10	5.332E-10	4.517E-10	
SSW	119	1.766E-09	1.269E-09	9.725E-10	7.783E-10	6.390E-10	5.389E-10	4.623E-10	
SW	56	1.128E-09	7.855E-10	5.846E-10	4.556E-10	3.617E-10	2.985E-10	2.514E-10	
WSW	54	1.276E-09	8.779E-10	6.232E-10	4.785E-10	3.783E-10	2.986E-10	2.493E-10	
W	103	2.242E-09	1.573E-09	1.173E-09	9.129E-10	6.595E-10	5.100E-10	4.322E-10	
WNN	163	4.024E-09	2.926E-09	2.255E-09	1.446E-09	1.074E-09	8.666E-10	7.142E-10	
NW	136	3.418E-09	2.371E-09	1.730E-09	9.366E-10	7.317E-10	5.912E-10	4.876E-10	
NNW	72	2.389E-09	1.575E-09	1.114E-09	8.262E-10	6.293E-10	4.946E-10	3.966E-10	
AVERAGE	2100	2.422E-09	1.789E-09	1.400E-09	1.064E-09	8.528E-10	7.064E-10	5.960E-10	

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

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	281	2.977E-09	9.563E-08	4.561E-08	2.943E-08	2.993E-08	3.491E-08	3.587E-08	3.420E-08
NNE	458	2.660E-09	8.224E-08	4.697E-08	3.446E-08	3.677E-08	4.638E-08	4.960E-08	4.822E-08
NE	253	1.808E-09	5.752E-08	3.222E-08	2.149E-08	2.037E-08	2.255E-08	2.323E-08	2.237E-08
ENE	135	9.089E-10	3.037E-08	1.742E-08	1.172E-08	1.080E-08	1.163E-08	1.213E-08	1.187E-08
E	85	2.625E-10	1.297E-08	7.406E-09	4.712E-09	5.058E-09	7.749E-09	9.443E-09	9.879E-09
ESE	88	6.297E-10	2.346E-08	1.284E-08	8.447E-09	7.985E-09	9.532E-09	1.053E-08	1.056E-08
SE	84	1.277E-09	5.771E-08	3.768E-08	1.841E-08	1.532E-08	2.086E-08	1.563E-08	1.548E-08
SSE	127	6.243E-09	2.291E-07	1.183E-07	7.141E-08	8.270E-08	6.952E-08	5.519E-08	4.423E-08
S	77	3.450E-09	7.495E-08	7.999E-08	1.218E-07	1.003E-07	8.114E-08	5.820E-08	4.175E-08
SSW	109	7.371E-09	1.381E-07	9.824E-08	1.121E-07	1.594E-07	1.238E-07	5.544E-08	5.544E-08
SW	90	1.396E-08	1.283E-07	1.041E-07	8.967E-08	7.598E-08	5.940E-08	4.500E-08	3.525E-08
WSW	63	8.144E-09	6.655E-08	5.211E-08	5.034E-08	7.044E-08	6.952E-08	5.304E-08	4.123E-08
W	69	4.479E-09	6.965E-08	8.234E-08	4.906E-08	4.631E-08	4.565E-08	3.732E-08	3.211E-08
WNN	72	3.170E-10	6.022E-09	2.839E-08	3.850E-08	5.081E-08	5.446E-08	4.523E-08	3.916E-08
NW	131	1.311E-09	2.327E-08	1.868E-08	1.678E-08	1.907E-08	2.376E-08	2.437E-08	2.292E-08
NNW	54	4.624E-11	2.723E-09	5.240E-09	3.746E-09	3.637E-09	5.274E-09	6.438E-09	6.750E-09
AVERAGE	2176	3.490E-09	6.866E-08	4.922E-08	4.263E-08	4.594E-08	4.288E-08	3.499E-08	2.946E-08

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	281	3.142E-08	2.862E-08	2.604E-08	2.380E-08	2.174E-08	1.454E-08	1.052E-08	6.385E-09
NNE	458	4.476E-08	4.109E-08	3.763E-08	3.457E-08	3.173E-08	2.159E-08	1.579E-08	9.756E-09
NE	253	2.079E-08	1.917E-08	1.766E-08	1.634E-08	1.509E-08	1.056E-08	7.926E-09	5.103E-09
ENE	135	1.117E-08	1.042E-08	9.697E-09	9.049E-09	8.421E-09	6.015E-09	4.564E-09	2.980E-09
E	85	9.574E-09	9.062E-09	8.488E-09	7.938E-09	7.385E-09	5.180E-09	3.829E-09	2.381E-09
ESE	88	1.004E-08	9.401E-09	8.752E-09	8.151E-09	7.561E-09	5.275E-09	3.902E-09	2.436E-09
SE	84	1.446E-08	1.330E-08	1.217E-08	1.115E-08	1.020E-08	6.784E-09	4.848E-09	2.876E-09
SSE	127	3.624E-08	3.036E-08	2.590E-08	2.239E-08	1.958E-08	1.157E-08	7.849E-09	4.690E-09
S	77	3.133E-08	2.451E-08	1.980E-08	1.634E-08	1.375E-08	7.148E-09	4.460E-09	2.263E-09
SSW	109	4.178E-08	3.289E-08	2.674E-08	2.224E-08	1.884E-08	1.006E-08	6.412E-09	3.351E-09
SW	90	2.839E-08	2.346E-08	1.978E-08	1.695E-08	1.470E-08	8.366E-09	5.482E-09	2.914E-09
WSW	63	3.288E-08	2.687E-08	2.240E-08	1.896E-08	1.627E-08	8.837E-09	5.579E-09	2.800E-09
W	69	2.734E-08	2.347E-08	2.033E-08	1.776E-08	1.561E-08	1.052E-08	6.505E-09	3.184E-09
WNN	72	3.358E-08	2.903E-08	2.322E-08	2.045E-08	1.813E-08	1.159E-08	7.871E-09	4.137E-09
NW	131	2.077E-08	1.871E-08	1.686E-08	1.528E-08	1.387E-08	1.173E-08	8.088E-09	5.195E-09
NNW	54	6.548E-09	6.216E-09	5.842E-09	5.481E-09	5.117E-09	3.611E-09	2.895E-09	2.943E-09
AVERAGE	2176	2.507E-08	2.166E-08	1.883E-08	1.668E-08	1.488E-08	9.586E-09	6.657E-09	3.962E-09

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	281	4.404E-09	3.265E-09	2.540E-09	2.048E-09	1.684E-09	1.600E-09	1.335E-09	
NNE	458	6.807E-09	5.087E-09	3.979E-09	3.221E-09	2.658E-09	2.243E-09	1.918E-09	
NE	253	3.660E-09	2.785E-09	2.201E-09	1.797E-09	1.494E-09	1.269E-09	1.092E-09	
ENE	135	2.156E-09	1.718E-09	1.549E-09	1.256E-09	1.037E-09	8.742E-10	7.462E-10	
E	85	1.654E-09	1.226E-09	1.157E-09	9.104E-10	7.310E-10	6.013E-10	5.018E-10	
ESE	88	1.699E-09	1.439E-09	1.103E-09	8.757E-10	7.091E-10	5.874E-10	4.936E-10	
SE	84	1.936E-09	1.600E-09	1.187E-09	9.164E-10	7.231E-10	5.858E-10	4.823E-10	
SSE	127	3.042E-09	2.148E-09	1.605E-09	1.247E-09	9.914E-10	8.095E-10	6.722E-10	
S	77	1.405E-09	9.719E-10	7.215E-10	5.613E-10	4.490E-10	3.702E-10	3.110E-10	
SSW	109	2.102E-09	1.457E-09	1.080E-09	8.370E-10	6.664E-10	5.467E-10	4.572E-10	
SW	90	1.834E-09	1.271E-09	9.418E-10	7.311E-10	5.772E-10	4.753E-10	3.996E-10	
WSW	63	1.682E-09	1.117E-09	7.586E-10	5.659E-10	4.356E-10	3.317E-10	2.709E-10	
W	69	1.879E-09	1.237E-09	8.774E-10	6.559E-10	4.550E-10	3.357E-10	2.786E-10	
WNN	72	2.519E-09	1.675E-09	1.092E-09	6.295E-10	4.519E-10	3.542E-10	2.846E-10	
NW	131	3.380E-09	2.437E-09	1.797E-09	8.874E-10	6.933E-10	5.599E-10	4.614E-10	
NNW	54	1.803E-09	1.213E-09	8.697E-10	6.508E-10	4.987E-10	3.932E-10	3.157E-10	
AVERAGE	2176	2.623E-09	1.915E-09	1.466E-09	1.112E-09	8.909E-10	7.461E-10	6.263E-10	

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

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	104	3.671E-10	1.187E-08	9.817E-09	7.507E-09	8.811E-09	1.309E-08	1.473E-08	1.453E-08	
NNE	319	5.261E-10	2.389E-08	2.968E-08	2.736E-08	3.213E-08	4.339E-08	4.592E-08	4.374E-08	
NE	285	8.609E-10	3.039E-08	4.540E-08	3.663E-08	3.452E-08	3.703E-08	3.746E-08	3.552E-08	
ENE	223	2.240E-10	1.137E-08	2.432E-08	2.054E-08	2.012E-08	2.474E-08	2.691E-08	2.634E-08	
E	261	1.009E-09	3.650E-08	3.930E-08	2.972E-08	2.666E-08	2.820E-08	2.967E-08	2.905E-08	
ESE	224	7.570E-10	2.469E-08	1.577E-08	1.381E-08	1.580E-08	2.280E-08	2.606E-08	2.597E-08	
SE	190	1.683E-09	5.395E-08	4.037E-08	2.672E-08	2.605E-08	3.234E-08	2.519E-08	2.341E-08	
SSE	89	1.821E-09	4.620E-08	3.846E-08	5.354E-08	5.721E-08	4.456E-08	3.416E-08	2.685E-08	
S	54	1.271E-09	2.316E-08	5.183E-08	8.983E-08	7.292E-08	6.113E-08	4.574E-08	3.324E-08	
SSW	75	2.358E-09	3.674E-08	7.286E-08	1.020E-07	1.517E-07	1.192E-07	7.387E-08	5.006E-08	
SW	39	2.437E-11	4.558E-09	3.478E-08	4.012E-08	3.345E-08	2.571E-08	1.942E-08	1.525E-08	
WSW	45	6.632E-10	1.234E-08	3.738E-08	3.820E-08	4.669E-08	4.203E-08	3.209E-08	2.525E-08	
W	49	1.321E-09	1.683E-08	2.428E-08	3.071E-08	3.480E-08	3.274E-08	2.493E-08	2.062E-08	
WNV	45	3.198E-10	6.161E-09	1.541E-08	1.888E-08	2.464E-08	2.607E-08	2.140E-08	1.840E-08	
NW	83	3.238E-10	6.840E-09	7.072E-09	7.624E-09	9.938E-09	1.371E-08	1.433E-08	1.353E-08	
NNW	58	4.176E-11	1.807E-09	3.285E-09	3.222E-09	4.288E-09	7.072E-09	8.237E-09	8.281E-09	
AVERAGE	2143	8.482E-10	2.171E-08	3.063E-08	3.415E-08	3.748E-08	3.587E-08	3.001E-08	2.563E-08	

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	104	1.355E-08	1.241E-08	1.132E-08	1.034E-08	9.451E-09	6.296E-09	4.518E-09	2.701E-09	
NNE	319	3.988E-08	3.594E-08	3.235E-08	2.924E-08	2.649E-08	1.724E-08	1.222E-08	7.195E-09	
NE	285	3.254E-08	2.956E-08	2.682E-08	2.444E-08	2.227E-08	1.474E-08	1.059E-08	6.370E-09	
ENE	223	2.448E-08	2.246E-08	2.055E-08	1.886E-08	1.731E-08	1.171E-08	8.519E-09	5.207E-09	
E	261	2.723E-08	2.531E-08	2.345E-08	2.176E-08	2.013E-08	1.376E-08	9.966E-09	6.039E-09	
ESE	224	2.429E-08	2.244E-08	2.066E-08	1.907E-08	1.757E-08	1.204E-08	8.834E-09	5.478E-09	
SE	190	2.104E-08	1.881E-08	1.685E-08	1.519E-08	1.373E-08	8.903E-09	6.321E-09	3.748E-09	
SSE	89	2.171E-08	1.801E-08	1.526E-08	1.314E-08	1.146E-08	6.743E-09	4.567E-09	2.764E-09	
S	54	2.503E-08	1.967E-08	1.595E-08	1.323E-08	1.119E-08	5.911E-09	3.703E-09	1.855E-09	
SSW	75	3.608E-08	2.717E-08	2.117E-08	1.692E-08	1.386E-08	6.638E-09	4.004E-09	1.980E-09	
SW	39	1.231E-08	1.020E-08	8.624E-09	7.404E-09	6.445E-09	3.729E-09	2.474E-09	1.327E-09	
WSW	45	2.036E-08	1.682E-08	1.418E-08	1.212E-08	1.051E-08	5.920E-09	3.808E-09	1.922E-09	
W	49	1.715E-08	1.449E-08	1.243E-08	1.079E-08	9.461E-09	6.699E-09	4.216E-09	2.098E-09	
WNV	45	1.567E-08	1.347E-08	1.169E-08	1.024E-08	9.042E-09	5.118E-09	3.773E-09	1.982E-09	
NW	83	1.225E-08	1.101E-08	9.898E-09	8.945E-09	8.104E-09	6.604E-09	4.494E-09	2.674E-09	
NNW	58	7.803E-09	7.210E-09	6.619E-09	6.082E-09	5.584E-09	3.770E-09	2.907E-09	2.276E-09	
AVERAGE	2143	2.196E-08	1.906E-08	1.674E-08	1.486E-08	1.329E-08	8.489E-09	5.932E-09	3.476E-09	

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	104	1.840E-09	1.349E-09	1.039E-09	8.288E-10	6.748E-10	6.014E-10	4.983E-10	
NNE	319	4.864E-09	3.554E-09	2.736E-09	2.185E-09	1.782E-09	1.490E-09	1.264E-09	
NE	285	4.371E-09	3.232E-09	2.512E-09	2.025E-09	1.666E-09	1.404E-09	1.200E-09	
ENE	223	3.602E-09	2.733E-09	2.268E-09	1.814E-09	1.480E-09	1.237E-09	1.048E-09	
E	261	4.164E-09	3.095E-09	2.835E-09	2.263E-09	1.844E-09	1.539E-09	1.303E-09	
ESE	224	3.810E-09	3.159E-09	2.434E-09	1.942E-09	1.580E-09	1.317E-09	1.112E-09	
SE	190	2.548E-09	2.091E-09	1.587E-09	1.252E-09	1.011E-09	8.373E-10	7.048E-10	
SSE	89	1.780E-09	1.244E-09	9.190E-10	7.061E-10	5.550E-10	4.485E-10	3.692E-10	
S	54	1.124E-09	7.578E-10	5.487E-10	4.169E-10	3.261E-10	2.636E-10	2.176E-10	
SSW	75	1.218E-09	8.367E-10	6.176E-10	4.778E-10	3.801E-10	3.119E-10	2.609E-10	
SW	39	8.270E-10	5.616E-10	4.051E-10	3.051E-10	2.313E-10	1.839E-10	1.496E-10	
WSW	45	1.141E-09	7.430E-10	4.830E-10	3.564E-10	2.723E-10	2.059E-10	1.682E-10	
W	49	1.249E-09	8.229E-10	5.813E-10	4.309E-10	2.923E-10	2.111E-10	1.727E-10	
WNV	45	1.226E-09	8.376E-10	5.769E-10	3.621E-10	2.687E-10	2.148E-10	1.756E-10	
NW	83	1.720E-09	1.220E-09	9.098E-10	5.686E-10	4.486E-10	3.651E-10	3.024E-10	
NNW	58	1.377E-09	9.271E-10	6.710E-10	5.095E-10	3.977E-10	3.204E-10	2.630E-10	
AVERAGE	2143	2.304E-09	1.698E-09	1.320E-09	1.028E-09	8.256E-10	6.844E-10	5.756E-10	

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

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	627	1.244E-09	3.957E-08	2.408E-08	1.699E-08	1.747E-08	2.122E-08	2.222E-08	2.131E-08	
NNE	1233	1.125E-09	3.702E-08	2.804E-08	2.323E-08	2.646E-08	3.550E-08	3.828E-08	3.711E-08	
NE	850	9.230E-10	3.057E-08	2.676E-08	2.019E-08	1.926E-08	2.176E-08	2.284E-08	2.218E-08	
ENE	690	5.033E-10	1.859E-08	1.888E-08	1.503E-08	1.441E-08	1.674E-08	1.794E-08	1.759E-08	
E	794	9.869E-10	3.422E-08	2.560E-08	1.777E-08	1.679E-08	1.974E-08	2.142E-08	2.116E-08	
ESE	815	1.310E-09	4.354E-08	2.515E-08	1.925E-08	1.949E-08	2.306E-08	2.426E-08	2.340E-08	
SE	558	1.160E-09	4.059E-08	3.098E-08	2.126E-08	2.033E-08	2.579E-08	2.076E-08	1.975E-08	
SSE	463	3.089E-09	9.475E-08	6.359E-08	6.598E-08	7.155E-08	5.775E-08	4.531E-08	3.613E-08	
S	314	2.832E-09	5.750E-08	7.837E-08	1.208E-07	9.878E-08	8.152E-08	5.963E-08	4.304E-08	
SSW	376	4.804E-09	8.117E-08	9.795E-08	1.155E-07	1.598E-07	1.199E-07	7.505E-08	5.205E-08	
SW	266	7.074E-09	6.160E-08	5.930E-08	6.466E-08	5.548E-08	4.291E-08	3.196E-08	2.475E-08	
WSW	236	4.543E-09	4.005E-08	4.499E-08	4.664E-08	6.025E-08	5.546E-08	4.178E-08	3.238E-08	
W	293	4.548E-09	6.111E-08	5.816E-08	4.563E-08	4.592E-08	4.156E-08	3.167E-08	2.620E-08	
WNN	337	1.068E-09	1.640E-08	3.158E-08	3.600E-08	4.588E-08	4.773E-08	3.881E-08	3.319E-08	
NW	420	8.805E-10	1.607E-08	1.231E-08	1.117E-08	1.394E-08	1.943E-08	2.078E-08	1.995E-08	
NNW	230	7.193E-11	2.802E-09	3.538E-09	3.276E-09	4.276E-09	7.100E-09	8.433E-09	8.613E-09	
AVERAGE	8502	2.260E-09	4.222E-08	3.933E-08	4.021E-08	4.313E-08	3.982E-08	3.257E-08	2.743E-08	

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	627	1.960E-08	1.784E-08	1.621E-08	1.479E-08	1.349E-08	8.982E-09	6.464E-09	3.890E-09	
NNE	1233	3.427E-08	3.127E-08	2.847E-08	2.600E-08	2.375E-08	1.587E-08	1.145E-08	6.919E-09	
NE	850	2.064E-08	1.902E-08	1.749E-08	1.612E-08	1.485E-08	1.022E-08	7.541E-09	4.722E-09	
ENE	690	1.645E-08	1.522E-08	1.404E-08	1.299E-08	1.201E-08	8.341E-09	6.189E-09	3.904E-09	
E	794	1.988E-08	1.843E-08	1.701E-08	1.573E-08	1.451E-08	9.919E-09	7.233E-09	4.436E-09	
ESE	815	2.160E-08	1.978E-08	1.809E-08	1.661E-08	1.524E-08	1.033E-08	7.538E-09	4.645E-09	
SE	558	1.802E-08	1.631E-08	1.475E-08	1.340E-08	1.218E-08	8.006E-09	5.711E-09	3.397E-09	
SSE	463	2.950E-08	2.464E-08	2.098E-08	1.811E-08	1.582E-08	9.298E-09	6.288E-09	3.743E-09	
S	314	3.238E-08	2.540E-08	2.057E-08	1.703E-08	1.437E-08	7.546E-09	4.740E-09	2.421E-09	
SSW	376	3.860E-08	2.992E-08	2.399E-08	1.970E-08	1.651E-08	8.524E-09	5.334E-09	2.731E-09	
SW	266	1.978E-08	1.625E-08	1.364E-08	1.165E-08	1.008E-08	5.714E-09	3.745E-09	1.996E-09	
WSW	236	2.581E-08	2.112E-08	1.764E-08	1.498E-08	1.289E-08	7.133E-09	4.568E-09	2.336E-09	
W	293	2.180E-08	1.842E-08	1.580E-08	1.371E-08	1.200E-08	8.189E-09	5.202E-09	2.666E-09	
WNN	337	2.820E-08	2.420E-08	2.100E-08	1.841E-08	1.626E-08	9.287E-09	6.931E-09	3.712E-09	
NW	420	1.829E-08	1.660E-08	1.503E-08	1.366E-08	1.241E-08	1.020E-08	6.883E-09	4.115E-09	
NNW	230	8.207E-09	7.663E-09	7.103E-09	6.584E-09	6.089E-09	4.197E-09	3.300E-09	2.864E-09	
AVERAGE	8502	2.331E-08	2.013E-08	1.761E-08	1.559E-08	1.390E-08	8.860E-09	6.195E-09	3.656E-09	

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	627	2.661E-09	1.957E-09	1.510E-09	1.208E-09	9.857E-10	8.979E-10	7.452E-10		
NNE	1233	4.754E-09	3.513E-09	2.726E-09	2.192E-09	1.798E-09	1.510E-09	1.287E-09		
NE	850	3.318E-09	2.488E-09	1.948E-09	1.577E-09	1.302E-09	1.100E-09	9.411E-10		
ENE	690	2.759E-09	2.145E-09	1.856E-09	1.495E-09	1.227E-09	1.030E-09	8.763E-10		
E	794	3.078E-09	2.292E-09	2.103E-09	1.676E-09	1.363E-09	1.136E-09	9.608E-10		
ESE	815	3.225E-09	2.633E-09	2.029E-09	1.621E-09	1.321E-09	1.103E-09	9.334E-10		
SE	558	2.305E-09	1.927E-09	1.455E-09	1.142E-09	9.168E-10	7.554E-10	6.322E-10		
SSE	463	2.428E-09	1.719E-09	1.291E-09	1.008E-09	8.059E-10	6.616E-10	5.525E-10		
S	314	1.504E-09	1.040E-09	7.719E-10	5.999E-10	4.793E-10	3.946E-10	3.311E-10		
SSW	376	1.702E-09	1.179E-09	8.751E-10	6.802E-10	5.434E-10	4.475E-10	3.756E-10		
SW	266	1.261E-09	8.760E-10	6.495E-10	5.039E-10	3.977E-10	3.267E-10	2.740E-10		
WSW	236	1.423E-09	9.553E-10	6.545E-10	4.922E-10	3.818E-10	2.940E-10	2.420E-10		
W	293	1.639E-09	1.116E-09	8.132E-10	6.213E-10	4.451E-10	3.381E-10	2.832E-10		
WNN	337	2.328E-09	1.625E-09	1.169E-09	7.345E-10	5.425E-10	4.338E-10	3.546E-10		
NW	420	2.613E-09	1.840E-09	1.351E-09	7.354E-10	5.746E-10	4.639E-10	3.820E-10		
NNW	230	1.729E-09	1.155E-09	8.264E-10	6.191E-10	4.760E-10	3.775E-10	3.051E-10		
AVERAGE	8502	2.420E-09	1.779E-09	1.377E-09	1.057E-09	8.476E-10	7.044E-10	5.922E-10		

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

Pilgrim 1st Quarter 2001 General Elevated X/Q

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	73	2.698E-07	1.370E-07	7.052E-08	4.761E-08	3.611E-08	2.472E-08	1.893E-08	1.539E-08
NNE	129	3.677E-07	1.876E-07	9.453E-08	6.297E-08	4.804E-08	3.321E-08	2.562E-08	2.091E-08
NE	157	4.349E-07	2.204E-07	1.107E-07	7.438E-08	5.707E-08	3.980E-08	3.088E-08	2.527E-08
ENE	212	5.591E-07	2.849E-07	1.440E-07	9.638E-08	7.355E-08	5.057E-08	3.873E-08	3.142E-08
E	325	7.958E-07	4.134E-07	2.003E-07	1.269E-07	9.618E-08	6.595E-08	5.063E-08	4.127E-08
ESE	366	9.203E-07	4.843E-07	2.270E-07	1.446E-07	1.105E-07	7.622E-08	5.834E-08	4.722E-08
SE	188	7.757E-07	4.026E-07	2.349E-07	1.334E-07	8.821E-08	6.074E-08	3.575E-08	2.896E-08
SSE	89	6.077E-07	3.232E-07	1.687E-07	7.329E-08	5.582E-08	3.600E-08	2.611E-08	2.035E-08
S	71	3.907E-07	2.050E-07	1.103E-07	7.721E-08	5.527E-08	3.679E-08	2.664E-08	2.039E-08
SSW	73	5.057E-07	2.607E-07	1.327E-07	9.361E-08	8.298E-08	5.707E-08	3.958E-08	2.981E-08
SW	81	3.665E-07	1.929E-07	9.604E-08	5.899E-08	4.347E-08	2.832E-08	2.029E-08	1.566E-08
WSW	74	4.807E-07	2.445E-07	1.221E-07	7.631E-08	5.731E-08	3.932E-08	2.846E-08	2.205E-08
W	72	3.289E-07	1.702E-07	9.424E-08	5.208E-08	3.920E-08	2.593E-08	1.734E-08	1.361E-08
WNV	57	2.422E-07	1.227E-07	9.217E-08	5.789E-08	4.863E-08	3.350E-08	2.326E-08	1.859E-08
NW	70	3.761E-07	1.863E-07	9.409E-08	6.382E-08	4.893E-08	3.412E-08	2.653E-08	2.180E-08
NNW	46	1.799E-07	9.083E-08	4.579E-08	3.100E-08	2.390E-08	1.684E-08	1.314E-08	1.079E-08
AVERAGE	2083	4.751E-07	2.454E-07	1.274E-07	7.940E-08	6.032E-08	4.119E-08	3.001E-08	2.397E-08

Pilgrim 1st Quarter 2001 General Elevated X/Q

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	73	1.293E-08	1.110E-08	9.704E-09	8.599E-09	7.703E-09	4.990E-09	3.621E-09	2.265E-09
NNE	129	1.761E-08	1.517E-08	1.330E-08	1.182E-08	1.061E-08	6.926E-09	5.049E-09	3.180E-09
NE	157	2.134E-08	1.844E-08	1.621E-08	1.445E-08	1.301E-08	8.582E-09	6.315E-09	4.042E-09
ENE	212	2.635E-08	2.264E-08	1.981E-08	1.758E-08	1.578E-08	1.029E-08	7.524E-09	4.780E-09
E	325	3.473E-08	2.991E-08	2.622E-08	2.329E-08	2.091E-08	1.366E-08	9.973E-09	6.302E-09
ESE	366	3.949E-08	3.384E-08	2.953E-08	2.614E-08	2.340E-08	1.514E-08	1.100E-08	6.916E-09
SE	188	2.422E-08	2.075E-08	1.810E-08	1.601E-08	1.432E-08	9.237E-09	6.688E-09	4.180E-09
SSE	89	1.655E-08	1.387E-08	1.188E-08	1.035E-08	9.141E-09	5.673E-09	4.030E-09	2.542E-09
S	71	1.629E-08	1.346E-08	1.142E-08	9.858E-09	8.649E-09	5.268E-09	3.705E-09	2.250E-09
SSW	73	2.366E-08	1.945E-08	1.641E-08	1.411E-08	1.233E-08	7.398E-09	5.143E-09	3.066E-09
SW	81	1.262E-08	1.049E-08	8.933E-09	7.738E-09	6.803E-09	4.160E-09	2.913E-09	1.739E-09
WSW	74	1.782E-08	1.485E-08	1.266E-08	1.098E-08	9.663E-09	5.921E-09	4.160E-09	2.504E-09
W	72	1.110E-08	9.317E-09	7.990E-09	6.961E-09	6.148E-09	4.112E-09	2.868E-09	1.715E-09
WNV	57	1.536E-08	1.301E-08	1.125E-08	9.865E-09	8.761E-09	5.127E-09	4.044E-09	2.460E-09
NW	70	1.849E-08	1.606E-08	1.419E-08	1.270E-08	1.149E-08	8.848E-09	6.447E-09	4.260E-09
NNW	46	9.124E-09	7.889E-09	6.937E-09	6.181E-09	5.563E-09	3.662E-09	2.781E-09	2.134E-09
AVERAGE	2083	1.985E-08	1.689E-08	1.466E-08	1.291E-08	1.152E-08	7.437E-09	5.391E-09	3.396E-09

Pilgrim 1st Quarter 2001 General Elevated X/Q

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	73	1.621E-09	1.250E-09	1.013E-09	8.489E-10	7.252E-10	7.325E-10	6.450E-10	
NNE	129	2.283E-09	1.763E-09	1.430E-09	1.199E-09	1.025E-09	8.950E-10	7.916E-10	
NE	157	2.934E-09	2.285E-09	1.865E-09	1.572E-09	1.350E-09	1.183E-09	1.050E-09	
ENE	212	3.457E-09	2.728E-09	2.331E-09	1.958E-09	1.677E-09	1.467E-09	1.299E-09	
E	325	4.538E-09	3.513E-09	3.094E-09	2.588E-09	2.208E-09	1.925E-09	1.700E-09	
ESE	366	4.970E-09	4.040E-09	3.275E-09	2.744E-09	2.345E-09	2.048E-09	1.811E-09	
SE	188	2.989E-09	2.504E-09	2.018E-09	1.684E-09	1.433E-09	1.247E-09	1.100E-09	
SSE	89	1.799E-09	1.379E-09	1.116E-09	9.343E-10	7.978E-10	6.963E-10	6.157E-10	
S	71	1.587E-09	1.213E-09	9.800E-10	8.190E-10	6.982E-10	6.083E-10	5.371E-10	
SSW	73	2.136E-09	1.619E-09	1.299E-09	1.080E-09	9.163E-10	7.953E-10	6.997E-10	
SW	81	1.213E-09	9.195E-10	7.365E-10	6.111E-10	5.221E-10	4.521E-10	3.970E-10	
WSW	74	1.754E-09	1.339E-09	1.109E-09	9.208E-10	7.803E-10	6.810E-10	5.982E-10	
W	72	1.196E-09	9.072E-10	7.277E-10	6.047E-10	5.188E-10	4.502E-10	3.960E-10	
WNV	57	1.731E-09	1.346E-09	1.113E-09	9.335E-10	7.897E-10	6.841E-10	6.005E-10	
NW	70	3.035E-09	2.362E-09	1.917E-09	1.696E-09	1.438E-09	1.248E-09	1.097E-09	
NNW	46	1.500E-09	1.143E-09	9.188E-10	7.648E-10	6.496E-10	5.645E-10	4.971E-10	
AVERAGE	2083	2.421E-09	1.894E-09	1.559E-09	1.310E-09	1.117E-09	9.798E-10	8.648E-10	

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

Pilgrim 2nd Quarter 2001 General Elevated X/Q

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	169	5.555E-07	2.909E-07	1.397E-07	8.742E-08	6.620E-08	4.517E-08	3.448E-08	2.797E-08
NNE	327	8.289E-07	4.251E-07	2.116E-07	1.396E-07	1.069E-07	7.422E-08	5.721E-08	4.660E-08
NE	155	4.659E-07	2.410E-07	1.183E-07	7.546E-08	5.651E-08	3.782E-08	2.860E-08	2.316E-08
ENE	120	3.583E-07	1.850E-07	9.062E-08	5.757E-08	4.294E-08	2.866E-08	2.171E-08	1.764E-08
E	123	3.746E-07	1.963E-07	9.269E-08	5.692E-08	4.286E-08	2.910E-08	2.223E-08	1.810E-08
ESE	137	3.863E-07	2.037E-07	9.689E-08	6.141E-08	4.592E-08	3.073E-08	2.324E-08	1.881E-08
SE	96	6.362E-07	3.292E-07	1.592E-07	8.457E-08	5.339E-08	3.701E-08	2.032E-08	1.649E-08
SSE	158	1.362E-06	7.331E-07	3.321E-07	1.009E-07	7.844E-08	5.185E-08	3.814E-08	2.990E-08
S	112	7.554E-07	4.073E-07	1.674E-07	1.143E-07	8.473E-08	5.830E-08	4.260E-08	3.249E-08
SSW	119	7.645E-07	4.139E-07	1.673E-07	1.027E-07	8.372E-08	5.298E-08	3.610E-08	2.695E-08
SW	56	4.120E-07	2.199E-07	1.038E-07	5.625E-08	4.198E-08	2.789E-08	2.016E-08	1.558E-08
WSW	54	6.489E-07	3.443E-07	1.292E-07	6.639E-08	4.984E-08	3.427E-08	2.483E-08	1.922E-08
W	103	7.478E-07	4.024E-07	2.047E-07	9.393E-08	7.021E-08	4.615E-08	3.080E-08	2.417E-08
WNW	163	7.085E-07	3.676E-07	2.827E-07	1.693E-07	1.392E-07	9.384E-08	6.475E-08	5.137E-08
NW	136	5.951E-07	3.064E-07	1.504E-07	9.800E-08	7.494E-08	5.195E-08	3.998E-08	3.252E-08
NNW	72	3.177E-07	1.611E-07	8.117E-08	5.448E-08	4.171E-08	2.894E-08	2.236E-08	1.825E-08
AVERAGE	2100	6.199E-07	3.267E-07	1.580E-07	8.869E-08	6.747E-08	4.555E-08	3.297E-08	2.620E-08

Pilgrim 2nd Quarter 2001 General Elevated X/Q

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	169	2.346E-08	2.014E-08	1.760E-08	1.560E-08	1.399E-08	9.088E-09	6.617E-09	4.170E-09
NNE	327	3.915E-08	3.365E-08	2.944E-08	2.611E-08	2.340E-08	1.521E-08	1.106E-08	6.949E-09
NE	155	1.944E-08	1.675E-08	1.470E-08	1.309E-08	1.179E-08	7.823E-09	5.813E-09	3.799E-09
ENE	120	1.486E-08	1.285E-08	1.131E-08	1.011E-08	9.125E-09	6.119E-09	4.579E-09	3.022E-09
E	123	1.525E-08	1.316E-08	1.156E-08	1.029E-08	9.268E-09	6.134E-09	4.538E-09	2.935E-09
ESE	137	1.578E-08	1.357E-08	1.188E-08	1.056E-08	9.491E-09	6.230E-09	4.585E-09	2.949E-09
SE	96	1.383E-08	1.188E-08	1.040E-08	9.228E-09	8.281E-09	5.406E-09	3.958E-09	2.522E-09
SSE	158	2.440E-08	2.051E-08	1.761E-08	1.538E-08	1.361E-08	8.512E-09	6.078E-09	3.879E-09
S	112	2.582E-08	2.124E-08	1.793E-08	1.543E-08	1.349E-08	8.109E-09	5.630E-09	3.335E-09
SSW	119	2.122E-08	1.733E-08	1.455E-08	1.246E-08	1.085E-08	6.440E-09	4.432E-09	2.599E-09
SW	56	1.257E-08	1.046E-08	8.908E-09	7.722E-09	6.793E-09	4.160E-09	2.922E-09	1.760E-09
WSW	54	1.550E-08	1.289E-08	1.098E-08	9.509E-09	8.360E-09	5.108E-09	3.572E-09	2.127E-09
W	103	1.973E-08	1.656E-08	1.421E-08	1.239E-08	1.096E-08	7.476E-09	5.243E-09	3.154E-09
WNW	163	4.226E-08	3.571E-08	2.823E-08	2.473E-08	2.194E-08	1.413E-08	1.016E-08	6.212E-09
NW	136	2.728E-08	2.341E-08	2.044E-08	1.810E-08	1.620E-08	1.187E-08	8.482E-09	5.459E-09
NNW	72	1.539E-08	1.328E-08	1.166E-08	1.038E-08	9.346E-09	6.167E-09	4.743E-09	3.998E-09
AVERAGE	2100	2.162E-08	1.834E-08	1.571E-08	1.382E-08	1.231E-08	7.999E-09	5.776E-09	3.679E-09

Pilgrim 2nd Quarter 2001 General Elevated X/Q

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	169	3.001E-09	2.324E-09	1.891E-09	1.589E-09	1.361E-09	1.365E-09	1.204E-09	
NNE	327	4.988E-09	3.854E-09	3.127E-09	2.623E-09	2.243E-09	1.959E-09	1.734E-09	
NE	155	2.807E-09	2.217E-09	1.830E-09	1.558E-09	1.351E-09	1.193E-09	1.067E-09	
ENE	120	2.246E-09	1.830E-09	1.653E-09	1.406E-09	1.218E-09	1.075E-09	9.611E-10	
E	123	2.151E-09	1.689E-09	1.611E-09	1.361E-09	1.172E-09	1.029E-09	9.151E-10	
ESE	137	2.151E-09	1.805E-09	1.476E-09	1.246E-09	1.072E-09	9.418E-10	8.376E-10	
SE	96	1.829E-09	1.626E-09	1.321E-09	1.110E-09	9.509E-10	8.319E-10	7.372E-10	
SSE	158	2.755E-09	2.117E-09	1.715E-09	1.437E-09	1.227E-09	1.071E-09	9.476E-10	
S	112	2.316E-09	1.751E-09	1.400E-09	1.160E-09	9.821E-10	8.509E-10	7.473E-10	
SSW	119	1.797E-09	1.355E-09	1.085E-09	9.005E-10	7.633E-10	6.619E-10	5.820E-10	
SW	56	1.235E-09	9.401E-10	7.568E-10	6.308E-10	5.418E-10	4.709E-10	4.148E-10	
WSW	54	1.481E-09	1.124E-09	9.200E-10	7.614E-10	6.435E-10	5.594E-10	4.905E-10	
W	103	2.213E-09	1.686E-09	1.356E-09	1.130E-09	9.874E-10	8.580E-10	7.559E-10	
WNW	163	4.393E-09	3.462E-09	2.928E-09	2.490E-09	2.114E-09	1.837E-09	1.617E-09	
NW	136	3.852E-09	2.985E-09	2.417E-09	2.128E-09	1.804E-09	1.564E-09	1.375E-09	
NNW	72	2.833E-09	2.173E-09	1.756E-09	1.468E-09	1.252E-09	1.090E-09	9.621E-10	
AVERAGE	2100	2.628E-09	2.059E-09	1.703E-09	1.437E-09	1.230E-09	1.085E-09	9.592E-10	

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

Pilgrim 3rd Quarter 2001 General Elevated X/Q

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	281	8.615E-07	4.588E-07	2.113E-07	1.271E-07	9.698E-08	6.712E-08	5.167E-08	4.207E-08	
NNE	458	1.203E-06	6.275E-07	3.020E-07	1.918E-07	1.465E-07	1.015E-07	7.822E-08	6.375E-08	
NE	253	7.132E-07	3.740E-07	1.774E-07	1.103E-07	8.361E-08	5.719E-08	4.380E-08	3.562E-08	
ENE	135	4.101E-07	2.144E-07	1.022E-07	6.393E-08	4.842E-08	3.305E-08	2.530E-08	2.058E-08	
E	85	2.991E-07	1.543E-07	7.550E-08	4.874E-08	3.724E-08	2.591E-08	2.013E-08	1.653E-08	
ESE	88	3.136E-07	1.642E-07	7.818E-08	5.078E-08	3.855E-08	2.651E-08	2.042E-08	1.668E-08	
SE	84	9.050E-07	4.726E-07	2.120E-07	1.074E-07	6.779E-08	4.662E-08	2.398E-08	1.965E-08	
SSE	127	1.617E-06	8.769E-07	4.021E-07	1.057E-07	8.247E-08	5.463E-08	4.025E-08	3.161E-08	
S	77	5.791E-07	3.107E-07	1.307E-07	9.119E-08	6.670E-08	4.532E-08	3.290E-08	2.507E-08	
SSW	109	7.416E-07	4.054E-07	1.601E-07	9.924E-08	8.590E-08	5.795E-08	4.012E-08	3.030E-08	
SW	90	6.955E-07	3.754E-07	1.787E-07	9.396E-08	6.831E-08	4.416E-08	3.164E-08	2.456E-08	
WSW	63	8.246E-07	4.284E-07	1.711E-07	9.429E-08	7.198E-08	5.050E-08	3.688E-08	2.868E-08	
W	69	6.974E-07	3.673E-07	2.109E-07	1.061E-07	7.639E-08	5.020E-08	3.390E-08	2.703E-08	
WNW	72	4.523E-07	2.298E-07	1.898E-07	1.197E-07	9.978E-08	6.861E-08	4.792E-08	3.827E-08	
NW	131	5.339E-07	2.746E-07	1.362E-07	8.960E-08	6.844E-08	4.717E-08	3.612E-08	2.927E-08	
NNW	54	2.096E-07	1.064E-07	5.419E-08	3.627E-08	2.745E-08	1.880E-08	1.450E-08	1.189E-08	
AVERAGE	2176	6.911E-07	3.650E-07	1.745E-07	9.601E-08	7.291E-08	4.970E-08	3.611E-08	2.885E-08	

Pilgrim 3rd Quarter 2001 General Elevated X/Q

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	281	3.535E-08	3.040E-08	2.661E-08	2.362E-08	2.119E-08	1.381E-08	1.008E-08	6.367E-09	
NNE	458	5.362E-08	4.617E-08	4.045E-08	3.594E-08	3.228E-08	2.110E-08	1.544E-08	9.794E-09	
NE	253	2.996E-08	2.582E-08	2.266E-08	2.016E-08	1.814E-08	1.198E-08	8.854E-09	5.722E-09	
ENE	135	1.732E-08	1.495E-08	1.314E-08	1.171E-08	1.055E-08	7.004E-09	5.197E-09	3.382E-09	
E	85	1.400E-08	1.213E-08	1.069E-08	9.552E-09	8.618E-09	5.729E-09	4.240E-09	2.737E-09	
ESE	88	1.408E-08	1.218E-08	1.071E-08	9.555E-09	8.613E-09	5.712E-09	4.228E-09	2.735E-09	
SE	84	1.659E-08	1.433E-08	1.258E-08	1.120E-08	1.007E-08	6.600E-09	4.831E-09	3.062E-09	
SSE	127	2.586E-08	2.176E-08	1.871E-08	1.634E-08	1.447E-08	9.055E-09	6.469E-09	4.138E-09	
S	77	1.991E-08	1.637E-08	1.382E-08	1.187E-08	1.037E-08	6.218E-09	4.309E-09	2.547E-09	
SSW	109	2.410E-08	1.985E-08	1.678E-08	1.445E-08	1.265E-08	7.641E-09	5.335E-09	3.199E-09	
SW	90	1.991E-08	1.664E-08	1.422E-08	1.237E-08	1.091E-08	6.750E-09	4.775E-09	2.905E-09	
WSW	63	2.325E-08	1.941E-08	1.657E-08	1.439E-08	1.267E-08	7.775E-09	5.468E-09	3.301E-09	
W	69	2.237E-08	1.900E-08	1.646E-08	1.446E-08	1.287E-08	9.181E-09	6.493E-09	3.970E-09	
WNW	72	3.162E-08	2.681E-08	2.125E-08	1.866E-08	1.659E-08	1.081E-08	7.813E-09	4.792E-09	
NW	131	2.450E-08	2.101E-08	1.835E-08	1.625E-08	1.455E-08	1.094E-08	7.867E-09	5.216E-09	
NNW	54	1.007E-08	8.732E-09	7.702E-09	6.884E-09	6.217E-09	4.148E-09	3.226E-09	2.813E-09	
AVERAGE	2176	2.391E-08	2.035E-08	1.754E-08	1.546E-08	1.380E-08	9.029E-09	6.539E-09	4.168E-09	

Pilgrim 3rd Quarter 2001 General Elevated X/Q

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	281	4.590E-09	3.558E-09	2.896E-09	2.435E-09	2.088E-09	2.148E-09	1.897E-09	
NNE	458	7.079E-09	5.499E-09	4.481E-09	3.773E-09	3.237E-09	2.836E-09	2.516E-09	
NE	253	4.193E-09	3.291E-09	2.704E-09	2.292E-09	1.979E-09	1.742E-09	1.553E-09	
ENE	135	2.489E-09	2.008E-09	1.783E-09	1.511E-09	1.303E-09	1.147E-09	1.021E-09	
E	85	2.000E-09	1.565E-09	1.460E-09	1.229E-09	1.054E-09	9.226E-10	8.182E-10	
ESE	88	2.002E-09	1.703E-09	1.392E-09	1.175E-09	1.011E-09	8.874E-10	7.887E-10	
SE	84	2.209E-09	1.913E-09	1.546E-09	1.292E-09	1.102E-09	9.599E-10	8.475E-10	
SSE	127	2.940E-09	2.259E-09	1.829E-09	1.532E-09	1.308E-09	1.142E-09	1.011E-09	
S	77	1.766E-09	1.333E-09	1.065E-09	8.819E-10	7.459E-10	6.460E-10	5.672E-10	
SSW	109	2.239E-09	1.703E-09	1.368E-09	1.139E-09	9.676E-10	8.411E-10	7.411E-10	
SW	90	2.051E-09	1.569E-09	1.267E-09	1.058E-09	9.129E-10	7.945E-10	7.008E-10	
WSW	63	2.314E-09	1.769E-09	1.462E-09	1.214E-09	1.029E-09	8.993E-10	7.906E-10	
W	69	2.806E-09	2.148E-09	1.734E-09	1.448E-09	1.264E-09	1.101E-09	9.714E-10	
WNW	72	3.394E-09	2.688E-09	2.283E-09	1.942E-09	1.646E-09	1.427E-09	1.254E-09	
NW	131	3.716E-09	2.922E-09	2.390E-09	2.215E-09	1.887E-09	1.643E-09	1.450E-09	
NNW	54	2.000E-09	1.537E-09	1.245E-09	1.042E-09	8.898E-10	7.761E-10	6.859E-10	
AVERAGE	2176	2.987E-09	2.342E-09	1.932E-09	1.636E-09	1.402E-09	1.245E-09	1.101E-09	

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

Pilgrim 4th Quarter 2001 General Elevated X/Q

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	104	3.019E-07	1.585E-07	8.038E-08	5.369E-08	4.177E-08	3.003E-08	2.378E-08	1.974E-08	
NNE	319	8.179E-07	4.296E-07	2.235E-07	1.514E-07	1.180E-07	8.438E-08	6.625E-08	5.456E-08	
NE	285	7.535E-07	3.985E-07	2.132E-07	1.380E-07	1.061E-07	7.437E-08	5.785E-08	4.752E-08	
ENE	223	5.836E-07	3.028E-07	1.598E-07	1.088E-07	8.343E-08	5.844E-08	4.558E-08	3.756E-08	
E	261	7.601E-07	4.005E-07	2.039E-07	1.341E-07	1.025E-07	7.131E-08	5.552E-08	4.586E-08	
ESE	224	5.879E-07	3.060E-07	1.521E-07	1.080E-07	8.451E-08	6.113E-08	4.853E-08	4.019E-08	
SE	190	6.518E-07	3.547E-07	2.059E-07	1.199E-07	8.024E-08	5.663E-08	3.388E-08	2.773E-08	
SSE	89	4.955E-07	2.706E-07	1.646E-07	8.409E-08	6.601E-08	4.326E-08	3.150E-08	2.445E-08	
S	54	2.909E-07	1.565E-07	1.069E-07	8.250E-08	6.066E-08	4.215E-08	3.081E-08	2.331E-08	
SSW	75	5.024E-07	2.683E-07	1.660E-07	1.194E-07	1.099E-07	7.735E-08	5.329E-08	3.984E-08	
SW	39	2.123E-07	1.104E-07	7.523E-08	5.159E-08	3.798E-08	2.493E-08	1.780E-08	1.364E-08	
WSW	45	4.103E-07	2.135E-07	1.203E-07	7.432E-08	5.733E-08	3.982E-08	2.877E-08	2.226E-08	
W	49	3.645E-07	1.907E-07	1.235E-07	7.083E-08	5.468E-08	3.736E-08	2.543E-08	2.009E-08	
WNW	45	2.209E-07	1.147E-07	9.668E-08	6.041E-08	5.085E-08	3.515E-08	2.446E-08	1.957E-08	
NW	83	2.579E-07	1.338E-07	6.884E-08	4.712E-08	3.687E-08	2.640E-08	2.066E-08	1.693E-08	
NNW	58	1.810E-07	9.278E-08	4.841E-08	3.345E-08	2.613E-08	1.887E-08	1.500E-08	1.248E-08	
AVERAGE	2143	4.620E-07	2.439E-07	1.381E-07	8.984E-08	6.981E-08	4.885E-08	3.619E-08	2.911E-08	

Pilgrim 4th Quarter 2001 General Elevated X/Q

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	104	1.678E-08	1.454E-08	1.279E-08	1.139E-08	1.024E-08	6.681E-09	4.850E-09	3.023E-09	
NNE	319	4.608E-08	3.969E-08	3.472E-08	3.077E-08	2.754E-08	1.771E-08	1.272E-08	7.805E-09	
NE	285	4.016E-08	3.467E-08	3.042E-08	2.704E-08	2.428E-08	1.580E-08	1.148E-08	7.190E-09	
ENE	223	3.181E-08	2.751E-08	2.418E-08	2.153E-08	1.936E-08	1.266E-08	9.232E-09	5.813E-09	
E	261	3.901E-08	3.393E-08	3.000E-08	2.689E-08	2.433E-08	1.627E-08	1.207E-08	7.796E-09	
ESE	224	3.411E-08	2.954E-08	2.600E-08	2.318E-08	2.087E-08	1.370E-08	1.004E-08	6.406E-09	
SE	190	2.332E-08	2.003E-08	1.749E-08	1.548E-08	1.384E-08	8.897E-09	6.406E-09	3.957E-09	
SSE	89	1.977E-08	1.648E-08	1.406E-08	1.219E-08	1.073E-08	6.578E-09	4.624E-09	2.926E-09	
S	54	1.834E-08	1.496E-08	1.254E-08	1.072E-08	9.324E-09	5.508E-09	3.776E-09	2.198E-09	
SSW	75	3.139E-08	2.563E-08	2.149E-08	1.835E-08	1.594E-08	9.370E-09	6.410E-09	3.729E-09	
SW	39	1.094E-08	9.053E-09	7.680E-09	6.635E-09	5.820E-09	3.530E-09	2.466E-09	1.478E-09	
WSW	45	1.795E-08	1.493E-08	1.271E-08	1.100E-08	9.668E-09	5.898E-09	4.127E-09	2.470E-09	
W	49	1.643E-08	1.381E-08	1.185E-08	1.032E-08	9.119E-09	6.481E-09	4.483E-09	2.642E-09	
WNW	45	1.617E-08	1.369E-08	1.182E-08	1.036E-08	9.195E-09	5.420E-09	4.277E-09	2.583E-09	
NW	83	1.424E-08	1.224E-08	1.069E-08	9.463E-09	8.466E-09	6.358E-09	4.484E-09	2.849E-09	
NNW	58	1.063E-08	9.237E-09	8.144E-09	7.268E-09	6.548E-09	4.308E-09	3.306E-09	2.753E-09	
AVERAGE	2143	2.419E-08	2.062E-08	1.791E-08	1.579E-08	1.408E-08	9.073E-09	6.547E-09	4.101E-09	

Pilgrim 4th Quarter 2001 General Elevated X/Q

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	104	2.155E-09	1.657E-09	1.338E-09	1.118E-09	9.528E-10	9.715E-10	8.521E-10	
NNE	319	5.513E-09	4.208E-09	3.384E-09	2.817E-09	2.392E-09	2.078E-09	1.829E-09	
NE	285	5.148E-09	3.970E-09	3.220E-09	2.700E-09	2.308E-09	2.016E-09	1.783E-09	
ENE	223	4.176E-09	3.296E-09	2.853E-09	2.387E-09	2.037E-09	1.777E-09	1.570E-09	
E	261	5.679E-09	4.430E-09	4.160E-09	3.489E-09	2.983E-09	2.606E-09	2.305E-09	
ESE	224	4.644E-09	3.966E-09	3.230E-09	2.718E-09	2.331E-09	2.042E-09	1.812E-09	
SE	190	2.810E-09	2.436E-09	1.953E-09	1.623E-09	1.377E-09	1.195E-09	1.051E-09	
SSE	89	2.049E-09	1.559E-09	1.254E-09	1.045E-09	8.880E-10	7.721E-10	6.805E-10	
S	54	1.509E-09	1.132E-09	9.006E-10	7.430E-10	6.262E-10	5.402E-10	4.727E-10	
SSW	75	2.556E-09	1.914E-09	1.520E-09	1.252E-09	1.054E-09	9.104E-10	7.968E-10	
SW	39	1.034E-09	7.858E-10	6.329E-10	5.275E-10	4.594E-10	3.986E-10	3.507E-10	
WSW	45	1.725E-09	1.320E-09	1.120E-09	9.271E-10	7.838E-10	6.873E-10	6.022E-10	
W	49	1.826E-09	1.375E-09	1.096E-09	9.063E-10	7.887E-10	6.807E-10	5.957E-10	
WNW	45	1.811E-09	1.428E-09	1.208E-09	1.022E-09	8.625E-10	7.450E-10	6.525E-10	
NW	83	1.983E-09	1.521E-09	1.223E-09	1.061E-09	8.952E-10	7.733E-10	6.773E-10	
NNW	58	1.913E-09	1.447E-09	1.157E-09	9.587E-10	8.110E-10	7.021E-10	6.161E-10	
AVERAGE	2143	2.908E-09	2.278E-09	1.891E-09	1.581E-09	1.347E-09	1.181E-09	1.040E-09	

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

Pilgrim 2001 General Elevated X/Q

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

DOWNWIND SECTOR	NO. OBS	.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	627	4.999E-07	2.610E-07	1.251E-07	7.845E-08	5.962E-08	4.097E-08	3.141E-08	2.554E-08
NNE	1233	8.127E-07	4.184E-07	2.069E-07	1.349E-07	1.030E-07	7.117E-08	5.473E-08	4.454E-08
NE	850	6.039E-07	3.111E-07	1.541E-07	9.845E-08	7.454E-08	5.084E-08	3.884E-08	3.155E-08
ENE	690	4.813E-07	2.470E-07	1.231E-07	8.050E-08	6.088E-08	4.140E-08	3.159E-08	2.566E-08
E	794	5.699E-07	2.943E-07	1.436E-07	9.160E-08	6.924E-08	4.721E-08	3.615E-08	2.946E-08
ESE	815	5.581E-07	2.905E-07	1.387E-07	9.025E-08	6.872E-08	4.729E-08	3.629E-08	2.947E-08
SE	558	5.986E-07	3.113E-07	1.807E-07	1.018E-07	6.718E-08	4.620E-08	2.723E-08	2.211E-08
SSE	463	7.260E-07	3.878E-07	1.957E-07	8.521E-08	6.595E-08	4.334E-08	3.178E-08	2.488E-08
S	314	4.526E-07	2.404E-07	1.210E-07	8.456E-08	6.195E-08	4.217E-08	3.073E-08	2.347E-08
SSW	376	6.033E-07	3.204E-07	1.459E-07	9.545E-08	8.214E-08	5.527E-08	3.826E-08	2.883E-08
SW	266	3.955E-07	2.097E-07	1.022E-07	6.121E-08	4.503E-08	2.941E-08	2.113E-08	1.636E-08
WSW	236	5.156E-07	2.669E-07	1.227E-07	7.326E-08	5.511E-08	3.805E-08	2.765E-08	2.147E-08
W	293	5.297E-07	2.785E-07	1.437E-07	7.576E-08	5.675E-08	3.755E-08	2.525E-08	1.995E-08
WNW	337	4.034E-07	2.067E-07	1.510E-07	9.227E-08	7.690E-08	5.235E-08	3.611E-08	2.876E-08
NW	420	4.377E-07	2.229E-07	1.108E-07	7.332E-08	5.607E-08	3.881E-08	2.985E-08	2.429E-08
NNW	230	2.240E-07	1.134E-07	5.738E-08	3.861E-08	2.950E-08	2.046E-08	1.582E-08	1.294E-08
AVERAGE	8502	5.258E-07	2.738E-07	1.389E-07	8.472E-08	6.454E-08	4.390E-08	3.205E-08	2.558E-08

Pilgrim 2001 General Elevated X/Q

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

DOWNWIND SECTOR	NO. OBS	3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	627	2.145E-08	1.843E-08	1.612E-08	1.430E-08	1.282E-08	8.343E-09	6.078E-09	3.829E-09
NNE	1233	3.740E-08	3.215E-08	2.812E-08	2.494E-08	2.236E-08	1.453E-08	1.057E-08	6.646E-09
NE	850	2.651E-08	2.282E-08	2.000E-08	1.778E-08	1.598E-08	1.050E-08	7.718E-09	4.947E-09
ENE	690	2.156E-08	1.856E-08	1.627E-08	1.447E-08	1.301E-08	8.553E-09	6.294E-09	4.041E-09
E	794	2.481E-08	2.141E-08	1.880E-08	1.674E-08	1.506E-08	9.930E-09	7.311E-09	4.686E-09
ESE	815	2.473E-08	2.126E-08	1.860E-08	1.651E-08	1.482E-08	9.670E-09	7.076E-09	4.507E-09
SE	558	1.854E-08	1.591E-08	1.391E-08	1.232E-08	1.104E-08	7.163E-09	5.210E-09	3.278E-09
SSE	463	2.029E-08	1.704E-08	1.463E-08	1.277E-08	1.129E-08	7.051E-09	5.028E-09	3.201E-09
S	314	1.868E-08	1.539E-08	1.301E-08	1.121E-08	9.807E-09	5.920E-09	4.126E-09	2.461E-09
SSW	376	2.288E-08	1.881E-08	1.587E-08	1.365E-08	1.193E-08	7.167E-09	4.982E-09	2.966E-09
SW	266	1.322E-08	1.102E-08	9.398E-09	8.158E-09	7.186E-09	4.422E-09	3.116E-09	1.885E-09
WSW	236	1.738E-08	1.450E-08	1.238E-08	1.074E-08	9.463E-09	5.815E-09	4.091E-09	2.467E-09
W	293	1.637E-08	1.381E-08	1.190E-08	1.041E-08	9.226E-09	6.390E-09	4.494E-09	2.720E-09
WNW	337	2.372E-08	2.008E-08	1.735E-08	1.522E-08	1.352E-08	7.951E-09	6.301E-09	3.858E-09
NW	420	2.040E-08	1.754E-08	1.535E-08	1.362E-08	1.222E-08	9.095E-09	6.542E-09	4.267E-09
NNW	230	1.093E-08	9.439E-09	8.297E-09	7.392E-09	6.655E-09	4.392E-09	3.365E-09	2.753E-09
AVERAGE	8502	2.118E-08	1.801E-08	1.563E-08	1.376E-08	1.227E-08	7.930E-09	5.769E-09	3.657E-09

Pilgrim 2001 General Elevated X/Q

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

DOWNWIND SECTOR	NO. OBS	20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	627	2.755E-09	2.133E-09	1.733E-09	1.456E-09	1.247E-09	1.256E-09	1.108E-09
NNE	1233	4.772E-09	3.689E-09	2.995E-09	2.513E-09	2.149E-09	1.878E-09	1.662E-09
NE	850	3.602E-09	2.814E-09	2.303E-09	1.947E-09	1.676E-09	1.473E-09	1.310E-09
ENE	690	2.946E-09	2.348E-09	2.042E-09	1.723E-09	1.481E-09	1.299E-09	1.154E-09
E	794	3.406E-09	2.656E-09	2.415E-09	2.029E-09	1.738E-09	1.521E-09	1.348E-09
ESE	815	3.267E-09	2.710E-09	2.208E-09	1.859E-09	1.596E-09	1.398E-09	1.241E-09
SE	558	2.355E-09	2.013E-09	1.627E-09	1.360E-09	1.160E-09	1.011E-09	8.926E-10
SSE	463	2.272E-09	1.745E-09	1.412E-09	1.183E-09	1.010E-09	8.819E-10	7.800E-10
S	314	1.716E-09	1.301E-09	1.043E-09	8.666E-10	7.348E-10	6.375E-10	5.606E-10
SSW	376	2.066E-09	1.566E-09	1.256E-09	1.043E-09	8.849E-10	7.681E-10	6.758E-10
SW	266	1.326E-09	1.011E-09	8.151E-10	6.799E-10	5.854E-10	5.089E-10	4.484E-10
WSW	236	1.730E-09	1.322E-09	1.095E-09	9.093E-10	7.708E-10	6.731E-10	5.915E-10
W	293	1.912E-09	1.458E-09	1.174E-09	9.781E-10	8.506E-10	7.394E-10	6.513E-10
WNW	337	2.729E-09	2.148E-09	1.810E-09	1.535E-09	1.302E-09	1.130E-09	9.935E-10
NW	420	3.027E-09	2.357E-09	1.915E-09	1.708E-09	1.450E-09	1.260E-09	1.109E-09
NNW	230	1.947E-09	1.491E-09	1.203E-09	1.005E-09	8.561E-10	7.453E-10	6.575E-10
AVERAGE	8502	2.614E-09	2.048E-09	1.690E-09	1.425E-09	1.218E-09	1.074E-09	9.489E-10

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

Pilgrim 1st Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	73	4.005E-13	3.100E-11	9.331E-11	8.307E-11	8.949E-11	1.203E-10	1.305E-10	1.262E-10	
NNE	129	2.953E-12	9.633E-11	1.085E-10	9.418E-11	1.054E-10	1.507E-10	1.727E-10	1.735E-10	
NE	157	2.534E-12	6.972E-11	5.435E-11	5.699E-11	7.899E-11	1.387E-10	1.706E-10	1.778E-10	
ENE	212	3.734E-12	1.294E-10	1.698E-10	1.749E-10	1.872E-10	2.300E-10	2.467E-10	2.412E-10	
E	325	1.643E-11	5.493E-10	3.719E-10	2.554E-10	2.573E-10	3.242E-10	3.535E-10	3.472E-10	
ESE	366	2.843E-11	9.094E-10	4.673E-10	3.704E-10	3.940E-10	4.558E-10	4.591E-10	4.310E-10	
SE	188	1.453E-11	4.979E-10	3.957E-10	3.039E-10	2.970E-10	3.694E-10	2.924E-10	2.755E-10	
SSE	89	2.044E-11	6.853E-10	6.819E-10	6.239E-10	6.311E-10	4.890E-10	3.784E-10	2.993E-10	
S	71	1.449E-11	3.395E-10	8.162E-10	1.080E-09	8.572E-10	7.375E-10	5.609E-10	4.113E-10	
SSW	73	1.730E-11	2.864E-10	6.932E-10	1.020E-09	1.643E-09	1.313E-09	8.215E-10	5.712E-10	
SW	81	6.643E-11	5.299E-10	5.451E-10	6.851E-10	5.940E-10	4.490E-10	3.264E-10	2.485E-10	
WSW	74	9.797E-14	6.138E-11	4.524E-10	5.131E-10	6.597E-10	5.929E-10	4.421E-10	3.412E-10	
W	72	1.644E-11	2.239E-10	3.910E-10	3.534E-10	3.629E-10	3.229E-10	2.396E-10	1.942E-10	
WNW	57	1.405E-12	2.912E-11	1.106E-10	1.861E-10	2.773E-10	3.209E-10	2.684E-10	2.312E-10	
NW	70	1.042E-12	2.244E-11	3.293E-11	4.024E-11	6.256E-11	1.139E-10	1.400E-10	1.460E-10	
NNW	46	5.118E-13	1.607E-11	5.808E-12	1.003E-11	2.588E-11	5.977E-11	7.570E-11	7.907E-11	
AVERAGE	2083	1.295E-11	2.798E-10	3.369E-10	3.657E-10	4.077E-10	3.868E-10	3.174E-10	2.684E-10	

Pilgrim 1st Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	73	1.162E-10	1.054E-10	9.541E-11	8.660E-11	7.875E-11	5.177E-11	3.691E-11	2.190E-11	
NNE	129	1.633E-10	1.511E-10	1.390E-10	1.279E-10	1.176E-10	7.914E-11	5.683E-11	3.376E-11	
NE	157	1.711E-10	1.612E-10	1.505E-10	1.404E-10	1.305E-10	9.129E-11	6.741E-11	4.188E-11	
ENE	212	2.246E-10	2.071E-10	1.904E-10	1.757E-10	1.619E-10	1.114E-10	8.210E-11	5.120E-11	
E	325	3.237E-10	2.978E-10	2.728E-10	2.505E-10	2.298E-10	1.552E-10	1.126E-10	6.862E-11	
ESE	366	3.916E-10	3.539E-10	3.203E-10	2.913E-10	2.652E-10	1.758E-10	1.267E-10	7.680E-11	
SE	188	2.496E-10	2.247E-10	2.024E-10	1.833E-10	1.662E-10	1.082E-10	7.671E-11	4.516E-11	
SSE	89	2.428E-10	2.016E-10	1.706E-10	1.465E-10	1.273E-10	7.312E-11	4.857E-11	2.763E-11	
S	71	3.127E-10	2.477E-10	2.021E-10	1.685E-10	1.431E-10	7.687E-11	4.907E-11	2.553E-11	
SSW	73	4.255E-10	3.312E-10	2.662E-10	2.188E-10	1.835E-10	9.411E-11	5.803E-11	2.866E-11	
SW	81	1.961E-10	1.596E-10	1.331E-10	1.130E-10	9.738E-11	5.492E-11	3.601E-11	1.936E-11	
WSW	74	2.714E-10	2.219E-10	1.854E-10	1.575E-10	1.357E-10	7.585E-11	4.916E-11	2.569E-11	
W	72	1.593E-10	1.332E-10	1.133E-10	9.767E-11	8.515E-11	5.504E-11	3.533E-11	1.864E-11	
WNW	57	1.966E-10	1.685E-10	1.459E-10	1.276E-10	1.125E-10	6.316E-11	4.657E-11	2.478E-11	
NW	70	1.408E-10	1.327E-10	1.236E-10	1.147E-10	1.057E-10	8.710E-11	5.656E-11	3.123E-11	
NNW	46	7.596E-11	7.117E-11	6.603E-11	6.119E-11	5.652E-11	3.856E-11	2.963E-11	2.219E-11	
AVERAGE	2083	2.288E-10	1.981E-10	1.736E-10	1.538E-10	1.373E-10	8.698E-11	6.051E-11	3.519E-11	

Pilgrim 1st Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	73	1.485E-11	1.085E-11	8.319E-12	6.614E-12	5.365E-12	5.050E-12	4.144E-12		
NNE	129	2.275E-11	1.652E-11	1.264E-11	1.003E-11	8.130E-12	6.758E-12	5.703E-12		
NE	157	2.911E-11	2.162E-11	1.678E-11	1.348E-11	1.102E-11	9.221E-12	7.815E-12		
ENE	212	3.583E-11	2.742E-11	2.274E-11	1.816E-11	1.479E-11	1.233E-11	1.042E-11		
E	325	4.740E-11	3.518E-11	3.013E-11	2.396E-11	1.945E-11	1.620E-11	1.369E-11		
ESE	366	5.287E-11	4.162E-11	3.198E-11	2.549E-11	2.074E-11	1.730E-11	1.464E-11		
SE	188	3.042E-11	2.432E-11	1.835E-11	1.441E-11	1.158E-11	9.565E-12	8.026E-12		
SSE	89	1.772E-11	1.251E-11	9.400E-12	7.373E-12	5.929E-12	4.902E-12	4.123E-12		
S	71	1.593E-11	1.103E-11	8.175E-12	6.344E-12	5.056E-12	4.151E-12	3.472E-12		
SSW	73	1.720E-11	1.150E-11	8.279E-12	6.256E-12	4.866E-12	3.912E-12	3.210E-12		
SW	81	1.242E-11	8.775E-12	6.609E-12	5.199E-12	4.176E-12	3.470E-12	2.936E-12		
WSW	74	1.591E-11	1.083E-11	7.539E-12	5.688E-12	4.419E-12	3.407E-12	2.803E-12		
W	72	1.182E-11	8.290E-12	6.215E-12	4.870E-12	3.759E-12	2.981E-12	2.516E-12		
WNW	57	1.553E-11	1.074E-11	7.635E-12	5.106E-12	3.826E-12	3.058E-12	2.492E-12		
NW	70	1.920E-11	1.318E-11	9.581E-12	5.453E-12	4.218E-12	3.372E-12	2.746E-12		
NNW	46	1.348E-11	9.052E-12	6.509E-12	4.898E-12	3.784E-12	3.017E-12	2.450E-12		
AVERAGE	2083	2.328E-11	1.709E-11	1.318E-11	1.021E-11	8.196E-12	6.793E-12	5.699E-12		

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

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	169	1.536E-11	4.592E-10	3.094E-10	2.237E-10	2.185E-10	2.446E-10	2.482E-10	2.347E-10
NNE	327	9.682E-12	3.072E-10	2.380E-10	2.108E-10	2.580E-10	3.645E-10	3.958E-10	3.842E-10
NE	155	7.338E-12	2.626E-10	2.323E-10	1.645E-10	1.378E-10	1.318E-10	1.326E-10	1.272E-10
ENE	120	4.969E-12	1.935E-10	1.670E-10	1.040E-10	8.049E-11	7.648E-11	8.114E-11	8.113E-11
E	123	1.064E-11	3.338E-10	1.897E-10	1.140E-10	1.001E-10	1.094E-10	1.161E-10	1.136E-10
ESE	137	1.058E-11	3.656E-10	2.607E-10	1.836E-10	1.545E-10	1.499E-10	1.516E-10	1.452E-10
SE	96	1.135E-11	3.726E-10	1.921E-10	1.444E-10	1.348E-10	1.725E-10	1.313E-10	1.271E-10
SSE	158	7.640E-11	2.073E-09	1.075E-09	7.662E-10	8.301E-10	6.779E-10	5.384E-10	4.335E-10
S	112	6.617E-11	1.275E-09	1.005E-09	1.640E-09	1.365E-09	1.104E-09	7.881E-10	5.627E-10
SSW	119	8.710E-11	1.372E-09	1.517E-09	1.463E-09	1.642E-09	1.051E-09	6.552E-10	4.557E-10
SW	56	9.254E-11	7.399E-10	5.631E-10	5.995E-10	5.284E-10	4.137E-10	3.057E-10	2.349E-10
WSW	54	1.301E-10	1.049E-09	5.339E-10	4.677E-10	5.787E-10	5.082E-10	3.759E-10	2.878E-10
W	103	1.079E-10	1.359E-09	9.983E-10	6.885E-10	6.639E-10	5.552E-10	4.034E-10	3.249E-10
WNW	163	3.529E-11	5.100E-10	8.018E-10	7.792E-10	9.154E-10	8.962E-10	7.167E-10	6.051E-10
NW	136	1.773E-11	3.176E-10	2.000E-10	1.605E-10	2.033E-10	2.874E-10	3.035E-10	2.875E-10
NNW	72	1.499E-12	5.085E-11	4.965E-11	5.100E-11	6.602E-11	1.014E-10	1.156E-10	1.158E-10
AVERAGE	2100	4.279E-11	6.900E-10	5.208E-10	4.850E-10	4.923E-10	4.278E-10	3.412E-10	2.826E-10

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	169	2.144E-10	1.944E-10	1.762E-10	1.606E-10	1.464E-10	9.734E-11	7.003E-11	4.202E-11
NNE	327	3.549E-10	3.238E-10	2.947E-10	2.691E-10	2.459E-10	1.646E-10	1.189E-10	7.212E-11
NE	155	1.185E-10	1.098E-10	1.019E-10	9.484E-11	8.821E-11	6.326E-11	4.829E-11	3.174E-11
ENE	120	7.764E-11	7.358E-11	6.942E-11	6.554E-11	6.160E-11	4.528E-11	3.491E-11	2.327E-11
E	123	1.065E-10	9.858E-11	9.089E-11	8.399E-11	7.745E-11	5.356E-11	3.976E-11	2.522E-11
ESE	137	1.341E-10	1.233E-10	1.133E-10	1.046E-10	9.632E-11	6.623E-11	4.891E-11	3.072E-11
SE	96	1.175E-10	1.076E-10	9.835E-11	9.019E-11	8.264E-11	5.564E-11	4.040E-11	2.471E-11
SSE	158	3.564E-10	2.994E-10	2.560E-10	2.218E-10	1.943E-10	1.153E-10	7.845E-11	4.732E-11
S	112	4.205E-10	3.281E-10	2.643E-10	2.179E-10	1.831E-10	9.487E-11	5.922E-11	3.030E-11
SSW	119	3.394E-10	2.650E-10	2.141E-10	1.774E-10	1.498E-10	7.978E-11	5.111E-11	2.723E-11
SW	56	1.865E-10	1.524E-10	1.274E-10	1.083E-10	9.332E-11	5.211E-11	3.383E-11	1.787E-11
WSW	54	2.273E-10	1.847E-10	1.536E-10	1.300E-10	1.116E-10	6.157E-11	3.950E-11	2.047E-11
W	103	2.662E-10	2.227E-10	1.896E-10	1.639E-10	1.432E-10	9.953E-11	6.515E-11	3.505E-11
WNW	163	5.103E-10	4.358E-10	3.455E-10	3.022E-10	2.666E-10	1.672E-10	1.143E-10	6.262E-11
NW	136	2.608E-10	2.342E-10	2.102E-10	1.895E-10	1.712E-10	1.377E-10	9.291E-11	5.451E-11
NNW	72	1.094E-10	1.017E-10	9.399E-11	8.701E-11	8.045E-11	5.578E-11	4.457E-11	4.019E-11
AVERAGE	2100	2.375E-10	2.034E-10	1.750E-10	1.542E-10	1.370E-10	8.810E-11	6.127E-11	3.659E-11

Pilgrim 2nd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	169	2.858E-11	2.086E-11	1.597E-11	1.266E-11	1.025E-11	8.624E-12	7.141E-12	
NNE	327	4.973E-11	3.687E-11	2.869E-11	2.312E-11	1.901E-11	1.600E-11	1.365E-11	
NE	155	2.293E-11	1.746E-11	1.377E-11	1.121E-11	9.306E-12	7.893E-12	6.789E-12	
ENE	120	1.708E-11	1.394E-11	1.340E-11	1.098E-11	9.155E-12	7.788E-12	6.708E-12	
E	123	1.796E-11	1.362E-11	1.432E-11	1.155E-11	9.504E-12	7.995E-12	6.821E-12	
ESE	137	2.165E-11	1.816E-11	1.418E-11	1.146E-11	9.446E-12	7.963E-12	6.805E-12	
SE	96	1.707E-11	1.596E-11	1.220E-11	9.671E-12	7.823E-12	6.480E-12	5.445E-12	
SSE	158	3.104E-11	2.225E-11	1.692E-11	1.337E-11	1.081E-11	8.960E-12	7.546E-12	
S	112	1.907E-11	1.338E-11	1.007E-11	7.925E-12	6.408E-12	5.332E-12	4.517E-12	
SSW	119	1.766E-11	1.269E-11	9.725E-12	7.783E-12	6.390E-12	5.389E-12	4.623E-12	
SW	56	1.128E-11	7.855E-12	5.846E-12	4.556E-12	3.617E-12	2.985E-12	2.514E-12	
WSW	54	1.276E-11	8.779E-12	6.232E-12	4.785E-12	3.783E-12	2.986E-12	2.493E-12	
W	103	2.242E-11	1.573E-11	1.173E-11	9.129E-12	6.595E-12	5.100E-12	4.322E-12	
WNW	163	4.024E-11	2.926E-11	2.255E-11	1.446E-11	1.074E-11	8.666E-12	7.142E-12	
NW	136	3.418E-11	2.371E-11	1.730E-11	9.366E-12	7.317E-12	5.912E-12	4.876E-12	
NNW	72	2.389E-11	1.575E-11	1.114E-11	8.262E-12	6.293E-12	4.946E-12	3.966E-12	
AVERAGE	2100	2.422E-11	1.789E-11	1.400E-11	1.064E-11	8.528E-12	7.064E-12	5.960E-12	

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

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	281	2.977E-11	9.563E-10	4.561E-10	2.943E-10	2.993E-10	3.491E-10	3.587E-10	3.420E-10
NNE	458	2.660E-11	8.224E-10	4.697E-10	3.446E-10	3.677E-10	4.638E-10	4.960E-10	4.822E-10
NE	253	1.808E-11	5.752E-10	3.222E-10	2.149E-10	2.037E-10	2.255E-10	2.323E-10	2.237E-10
ENE	135	9.089E-12	3.037E-10	1.742E-10	1.172E-10	1.080E-10	1.163E-10	1.213E-10	1.187E-10
E	85	2.625E-12	1.297E-10	7.406E-11	4.712E-11	5.058E-11	7.749E-11	9.443E-11	9.879E-11
ESE	88	6.297E-12	2.346E-10	1.284E-10	8.447E-11	7.985E-11	9.532E-11	1.053E-10	1.056E-10
SE	84	1.277E-11	5.771E-10	3.768E-10	1.841E-10	1.532E-10	2.086E-10	1.563E-10	1.548E-10
SSE	127	6.243E-11	2.291E-09	1.183E-09	7.141E-10	8.270E-10	6.952E-10	5.519E-10	4.423E-10
S	77	3.450E-11	7.495E-10	7.999E-10	1.218E-09	1.003E-09	8.114E-10	5.820E-10	4.175E-10
SSW	109	7.371E-11	1.381E-09	9.824E-10	1.121E-09	1.594E-09	1.238E-09	7.862E-10	5.544E-10
SW	90	1.396E-10	1.283E-09	1.041E-09	8.967E-10	7.598E-10	5.940E-10	4.500E-10	3.525E-10
WSW	63	8.144E-11	6.655E-10	5.211E-10	5.034E-10	7.044E-10	6.952E-10	5.304E-10	4.123E-10
W	69	4.479E-11	6.965E-10	8.234E-10	4.906E-10	4.631E-10	4.565E-10	3.732E-10	3.211E-10
WNW	72	3.170E-12	6.022E-11	2.839E-10	3.850E-10	5.081E-10	5.446E-10	4.523E-10	3.916E-10
NW	131	1.311E-11	2.327E-10	1.868E-10	1.678E-10	1.907E-10	2.376E-10	2.437E-10	2.292E-10
NNW	54	4.624E-13	2.723E-11	5.240E-11	3.746E-11	3.637E-11	5.274E-11	6.438E-11	6.750E-11
AVERAGE	2176	3.490E-11	6.866E-10	4.922E-10	4.263E-10	4.594E-10	4.288E-10	3.499E-10	2.946E-10

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	281	3.142E-10	2.862E-10	2.604E-10	2.380E-10	2.174E-10	1.454E-10	1.052E-10	6.385E-11
NNE	458	4.476E-10	4.109E-10	3.763E-10	3.457E-10	3.173E-10	2.159E-10	1.579E-10	9.756E-11
NE	253	2.079E-10	1.917E-10	1.766E-10	1.634E-10	1.509E-10	1.056E-10	7.926E-11	5.103E-11
ENE	135	1.117E-10	1.042E-10	9.697E-11	9.049E-11	8.421E-11	6.015E-11	4.564E-11	2.980E-11
E	85	9.574E-11	9.062E-11	8.488E-11	7.938E-11	7.385E-11	5.180E-11	3.829E-11	2.381E-11
ESE	88	1.004E-11	9.401E-11	8.752E-11	8.151E-11	7.561E-11	5.275E-11	3.902E-11	2.436E-11
SE	84	1.446E-10	1.330E-10	1.217E-10	1.115E-10	1.020E-10	6.784E-11	4.848E-11	2.876E-11
SSE	127	3.624E-10	3.036E-10	2.590E-10	2.239E-10	1.958E-10	1.157E-10	7.849E-11	4.690E-11
S	77	3.133E-10	2.451E-10	1.980E-10	1.634E-10	1.375E-10	7.148E-11	4.460E-11	2.263E-11
SSW	109	4.178E-10	3.289E-10	2.674E-10	2.224E-10	1.884E-10	1.006E-10	6.412E-11	3.351E-11
SW	90	2.839E-10	2.346E-10	1.978E-10	1.695E-10	1.470E-10	8.366E-11	5.482E-11	2.914E-11
WSW	63	3.288E-10	2.687E-10	2.240E-10	1.896E-10	1.627E-10	8.837E-11	5.579E-11	2.800E-11
W	69	2.734E-10	2.347E-10	2.033E-10	1.776E-10	1.561E-10	1.052E-10	6.505E-11	3.184E-11
WNW	72	3.358E-10	2.903E-10	2.322E-10	2.045E-10	1.813E-10	1.159E-10	7.871E-11	4.137E-11
NW	131	2.077E-10	1.871E-10	1.686E-10	1.528E-10	1.387E-10	1.173E-10	8.088E-11	5.195E-11
NNW	54	6.548E-11	6.216E-11	5.842E-11	5.481E-11	5.117E-11	3.611E-11	2.895E-11	2.943E-11
AVERAGE	2176	2.507E-10	2.166E-10	1.883E-10	1.668E-10	1.488E-10	9.586E-11	6.657E-11	3.962E-11

Pilgrim 3rd Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	281	4.404E-11	3.265E-11	2.540E-11	2.048E-11	1.684E-11	1.600E-11	1.335E-11
NNE	458	6.807E-11	5.087E-11	3.979E-11	3.221E-11	2.658E-11	2.243E-11	1.918E-11
NE	253	3.660E-11	2.785E-11	2.201E-11	1.797E-11	1.494E-11	1.269E-11	1.092E-11
ENE	135	2.156E-11	1.718E-11	1.549E-11	1.256E-11	1.037E-11	8.742E-12	7.462E-12
E	85	1.654E-11	1.226E-11	1.157E-11	9.104E-12	7.310E-12	6.013E-12	5.018E-12
ESE	88	1.699E-11	1.439E-11	1.103E-11	8.757E-12	7.091E-12	5.874E-12	4.936E-12
SE	84	1.936E-11	1.600E-11	1.187E-11	9.164E-12	7.231E-12	5.858E-12	4.823E-12
SSE	127	3.042E-11	2.148E-11	1.605E-11	1.247E-11	9.914E-12	8.095E-12	6.722E-12
S	77	1.405E-11	9.719E-12	7.215E-12	5.613E-12	4.490E-12	3.702E-12	3.110E-12
SSW	109	2.102E-11	1.457E-11	1.080E-11	8.370E-12	6.664E-12	5.467E-12	4.572E-12
SW	90	1.834E-11	1.271E-11	9.418E-12	7.311E-12	5.772E-12	4.753E-12	3.996E-12
WSW	63	1.682E-11	1.117E-11	7.586E-12	5.659E-12	4.356E-12	3.317E-12	2.709E-12
W	69	1.879E-11	1.237E-11	8.774E-12	6.559E-12	4.550E-12	3.357E-12	2.786E-12
WNW	72	2.519E-11	1.675E-11	1.092E-11	6.295E-12	4.519E-12	3.542E-12	2.846E-12
NW	131	3.380E-11	2.437E-11	1.797E-11	8.874E-12	6.933E-12	5.599E-12	4.614E-12
NNW	54	1.803E-11	1.213E-11	8.697E-12	6.508E-12	4.987E-12	3.932E-12	3.157E-12
AVERAGE	2176	2.623E-11	1.915E-11	1.466E-11	1.112E-11	8.909E-12	7.461E-12	6.263E-12

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

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	104	3.671E-12	1.187E-10	9.817E-11	7.507E-11	8.811E-11	1.309E-10	1.473E-10	1.453E-10
NNE	319	5.261E-12	2.389E-10	2.968E-10	2.736E-10	3.213E-10	4.339E-10	4.592E-10	4.374E-10
NE	285	8.609E-12	3.039E-10	4.540E-10	3.663E-10	3.452E-10	3.703E-10	3.746E-10	3.552E-10
ENE	223	2.240E-12	1.137E-10	2.432E-10	2.054E-10	2.012E-10	2.474E-10	2.691E-10	2.634E-10
E	261	1.009E-11	3.650E-10	3.930E-10	2.972E-10	2.666E-10	2.820E-10	2.967E-10	2.905E-10
ESE	224	7.570E-12	2.469E-10	1.577E-10	1.381E-10	1.580E-10	2.280E-10	2.606E-10	2.597E-10
SE	190	1.683E-11	5.395E-10	4.037E-10	2.672E-10	2.605E-10	3.234E-10	2.519E-10	2.341E-10
SSE	89	1.821E-11	4.620E-10	3.846E-10	5.354E-10	5.721E-10	4.456E-10	3.416E-10	2.685E-10
S	54	1.271E-11	2.316E-10	5.183E-10	8.983E-10	7.292E-10	6.113E-10	4.574E-10	3.324E-10
SSW	75	2.358E-11	3.674E-10	7.286E-10	1.020E-09	1.517E-09	1.192E-09	7.387E-10	5.006E-10
SW	39	2.437E-13	4.558E-11	3.478E-10	4.012E-10	3.345E-10	2.571E-10	1.942E-10	1.525E-10
WSW	45	6.632E-12	1.234E-10	3.738E-10	3.820E-10	4.669E-10	4.203E-10	3.209E-10	2.525E-10
W	49	1.321E-11	1.683E-10	2.428E-10	3.071E-10	3.480E-10	3.274E-10	2.493E-10	2.062E-10
WNW	45	3.198E-12	6.161E-11	1.541E-10	1.888E-10	2.464E-10	2.607E-10	2.140E-10	1.840E-10
NW	83	3.238E-12	6.840E-11	7.072E-11	7.624E-11	9.938E-11	1.371E-10	1.433E-10	1.353E-10
NNW	58	4.176E-13	1.807E-11	3.285E-11	3.222E-11	4.288E-11	7.072E-11	8.237E-11	8.281E-11
AVERAGE	2143	8.482E-12	2.171E-10	3.063E-10	3.415E-10	3.748E-10	3.587E-10	3.001E-10	2.563E-10

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	104	1.355E-10	1.241E-10	1.132E-10	1.034E-10	9.451E-11	6.296E-11	4.518E-11	2.701E-11
NNE	319	3.988E-10	3.594E-10	3.235E-10	2.924E-10	2.649E-10	1.724E-10	1.222E-10	7.195E-11
NE	285	3.254E-10	2.956E-10	2.682E-10	2.444E-10	2.227E-10	1.474E-10	1.059E-10	6.370E-11
ENE	223	2.448E-10	2.246E-10	2.055E-10	1.886E-10	1.731E-10	1.171E-10	8.519E-11	5.207E-11
E	261	2.723E-10	2.531E-10	2.345E-10	2.176E-10	2.013E-10	1.376E-10	9.966E-11	6.039E-11
ESE	224	2.429E-10	2.244E-10	2.066E-10	1.907E-10	1.757E-10	1.204E-10	8.834E-11	5.478E-11
SE	190	2.104E-10	1.881E-10	1.685E-10	1.519E-10	1.373E-10	8.903E-11	6.321E-11	3.748E-11
SSE	89	2.171E-10	1.801E-10	1.526E-10	1.314E-10	1.146E-10	6.743E-11	4.567E-11	2.764E-11
S	54	2.503E-10	1.967E-10	1.595E-10	1.323E-10	1.119E-10	5.911E-11	3.703E-11	1.855E-11
SSW	75	3.608E-10	2.717E-10	2.117E-10	1.692E-10	1.386E-10	6.638E-11	4.004E-11	1.980E-11
SW	39	1.231E-10	1.020E-10	8.624E-11	7.404E-11	6.445E-11	3.729E-11	2.474E-11	1.327E-11
WSW	45	2.036E-10	1.682E-10	1.418E-10	1.212E-10	1.051E-10	5.920E-11	3.808E-11	1.922E-11
W	49	1.715E-10	1.449E-10	1.243E-10	1.079E-10	9.461E-11	6.699E-11	4.216E-11	2.098E-11
WNW	45	1.567E-10	1.347E-10	1.169E-10	1.024E-10	9.042E-11	5.118E-11	3.773E-11	1.982E-11
NW	83	1.225E-10	1.101E-10	9.898E-11	8.945E-11	8.104E-11	6.604E-11	4.494E-11	2.674E-11
NNW	58	7.803E-11	7.210E-11	6.619E-11	6.082E-11	5.584E-11	3.770E-11	2.907E-11	2.276E-11
AVERAGE	2143	2.196E-10	1.906E-10	1.674E-10	1.486E-10	1.329E-10	8.489E-11	5.932E-11	3.476E-11

Pilgrim 4th Quarter 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	104	1.840E-11	1.349E-11	1.039E-11	8.288E-12	6.748E-12	6.014E-12	4.983E-12	
NNE	319	4.864E-11	3.554E-11	2.736E-11	2.185E-11	1.782E-11	1.490E-11	1.264E-11	
NE	285	4.371E-11	3.232E-11	2.512E-11	2.025E-11	1.666E-11	1.404E-11	1.200E-11	
ENE	223	3.602E-11	2.733E-11	2.268E-11	1.814E-11	1.480E-11	1.237E-11	1.048E-11	
E	261	4.164E-11	3.095E-11	2.835E-11	2.263E-11	1.844E-11	1.539E-11	1.303E-11	
ESE	224	3.810E-11	3.159E-11	2.434E-11	1.942E-11	1.580E-11	1.317E-11	1.112E-11	
SE	190	2.548E-11	2.091E-11	1.587E-11	1.252E-11	1.011E-11	8.373E-12	7.048E-12	
SSE	89	1.780E-11	1.244E-11	9.190E-12	7.061E-12	5.550E-12	4.485E-12	3.692E-12	
S	54	1.124E-11	7.578E-12	5.487E-12	4.169E-12	3.261E-12	2.636E-12	2.176E-12	
SSW	75	1.218E-11	8.367E-12	6.176E-12	4.778E-12	3.801E-12	3.119E-12	2.609E-12	
SW	39	8.270E-12	5.616E-12	4.051E-12	3.051E-12	2.313E-12	1.839E-12	1.496E-12	
WSW	45	1.141E-11	7.430E-12	4.830E-12	3.564E-12	2.723E-12	2.059E-12	1.682E-12	
W	49	1.249E-11	8.229E-12	5.813E-12	4.309E-12	2.923E-12	2.111E-12	1.727E-12	
WNW	45	1.226E-11	8.376E-12	5.769E-12	3.621E-12	2.687E-12	2.148E-12	1.756E-12	
NW	83	1.720E-11	1.220E-11	9.098E-12	5.686E-12	4.486E-12	3.651E-12	3.024E-12	
NNW	58	1.377E-11	9.271E-12	6.710E-12	5.095E-12	3.977E-12	3.204E-12	2.630E-12	
AVERAGE	2143	2.304E-11	1.698E-11	1.320E-11	1.028E-11	8.256E-12	6.844E-12	5.756E-12	

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

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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	627	1.244E-11	3.957E-10	2.408E-10	1.699E-10	1.747E-10	2.122E-10	2.222E-10	2.131E-10
NNE	1233	1.125E-11	3.702E-10	2.804E-10	2.323E-10	2.646E-10	3.550E-10	3.828E-10	3.711E-10
NE	850	9.230E-12	3.057E-10	2.676E-10	2.019E-10	1.926E-10	2.176E-10	2.284E-10	2.218E-10
ENE	690	5.033E-12	1.859E-10	1.888E-10	1.503E-10	1.441E-10	1.674E-10	1.794E-10	1.759E-10
E	794	9.869E-12	3.422E-10	2.560E-10	1.777E-10	1.679E-10	1.974E-10	2.142E-10	2.116E-10
ESE	815	1.310E-11	4.354E-10	2.515E-10	1.925E-10	1.949E-10	2.306E-10	2.426E-10	2.340E-10
SE	558	1.160E-11	4.059E-10	3.098E-10	2.126E-10	2.033E-10	2.579E-10	2.076E-10	1.975E-10
SSE	463	3.089E-11	9.475E-10	6.359E-10	6.598E-10	7.155E-10	5.775E-10	4.531E-10	3.613E-10
S	314	2.832E-11	5.750E-10	7.837E-10	1.208E-09	9.878E-10	8.152E-10	5.963E-10	4.304E-10
SSW	376	4.804E-11	8.117E-10	9.795E-10	1.155E-09	1.598E-09	1.199E-09	7.505E-10	5.205E-10
SW	266	7.074E-11	6.160E-10	5.930E-10	6.466E-10	5.548E-10	4.291E-10	3.196E-10	2.475E-10
WSW	236	4.543E-11	4.005E-10	4.499E-10	4.664E-10	6.025E-10	5.546E-10	4.178E-10	3.238E-10
W	293	4.548E-11	6.111E-10	5.816E-10	4.563E-10	4.592E-10	4.156E-10	3.167E-10	2.620E-10
WNW	337	1.068E-11	1.640E-10	3.158E-10	3.600E-10	4.588E-10	4.773E-10	3.881E-10	3.319E-10
NW	420	8.805E-12	1.607E-10	1.231E-10	1.117E-10	1.394E-10	1.943E-10	2.078E-10	1.995E-10
NNW	230	7.193E-13	2.802E-11	3.538E-11	3.276E-11	4.276E-11	7.100E-11	8.433E-11	8.613E-11
AVERAGE	8502	2.260E-11	4.222E-10	3.933E-10	4.021E-10	4.313E-10	3.982E-10	3.257E-10	2.743E-10

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	627	1.960E-10	1.784E-10	1.621E-10	1.479E-10	1.349E-10	8.982E-11	6.464E-11	3.890E-11
NNE	1233	3.427E-10	3.127E-10	2.847E-10	2.600E-10	2.375E-10	1.587E-10	1.145E-10	6.919E-11
NE	850	2.064E-10	1.902E-10	1.749E-10	1.612E-10	1.485E-10	1.022E-10	7.541E-11	4.722E-11
ENE	690	1.645E-10	1.522E-10	1.404E-10	1.299E-10	1.201E-10	8.341E-11	6.189E-11	3.904E-11
E	794	1.988E-10	1.843E-10	1.701E-10	1.573E-10	1.451E-10	9.919E-11	7.233E-11	4.436E-11
ESE	815	2.160E-10	1.978E-10	1.809E-10	1.661E-10	1.524E-10	1.033E-10	7.538E-11	4.645E-11
SE	558	1.802E-10	1.631E-10	1.475E-10	1.340E-10	1.218E-10	8.006E-11	5.711E-11	3.397E-11
SSE	463	2.950E-10	2.464E-10	2.098E-10	1.811E-10	1.582E-10	9.298E-11	6.288E-11	3.743E-11
S	314	3.238E-10	2.540E-10	2.057E-10	1.703E-10	1.437E-10	7.546E-11	4.740E-11	2.421E-11
SSW	376	3.860E-10	2.992E-10	2.399E-10	1.970E-10	1.651E-10	8.524E-11	5.334E-11	2.731E-11
SW	266	1.978E-10	1.625E-10	1.364E-10	1.165E-10	1.008E-10	5.714E-11	3.745E-11	1.996E-11
WSW	236	2.581E-10	2.112E-10	1.764E-10	1.498E-10	1.289E-10	7.133E-11	4.568E-11	2.336E-11
W	293	2.180E-10	1.842E-10	1.580E-10	1.371E-10	1.200E-10	8.189E-11	5.202E-11	2.666E-11
WNW	337	2.820E-10	2.420E-10	2.100E-10	1.841E-10	1.626E-10	9.287E-11	6.931E-11	3.712E-11
NW	420	1.829E-10	1.660E-10	1.503E-10	1.366E-10	1.241E-10	1.020E-10	6.883E-11	4.115E-11
NNW	230	8.207E-11	7.663E-11	7.103E-11	6.584E-11	6.089E-11	4.197E-11	3.300E-11	2.864E-11
AVERAGE	8502	2.331E-10	2.013E-10	1.761E-10	1.559E-10	1.390E-10	8.860E-11	6.195E-11	3.656E-11

Pilgrim 2001 General Elevated X/Q -- SECTOR AVERAGE MODEL

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)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	627	2.661E-11	1.957E-11	1.510E-11	1.208E-11	9.857E-12	8.979E-12	7.452E-12
NNE	1233	4.754E-11	3.513E-11	2.726E-11	2.192E-11	1.798E-11	1.510E-11	1.287E-11
NE	850	3.318E-11	2.488E-11	1.948E-11	1.577E-11	1.302E-11	1.100E-11	9.411E-12
ENE	690	2.759E-11	2.145E-11	1.856E-11	1.495E-11	1.227E-11	1.030E-11	8.763E-12
E	794	3.078E-11	2.292E-11	2.103E-11	1.676E-11	1.363E-11	1.136E-11	9.608E-12
ESE	815	3.225E-11	2.633E-11	2.029E-11	1.621E-11	1.321E-11	1.103E-11	9.334E-12
SE	558	2.305E-11	1.927E-11	1.455E-11	1.142E-11	9.168E-12	7.554E-12	6.322E-12
SSE	463	2.428E-11	1.719E-11	1.291E-11	1.008E-11	8.059E-12	6.616E-12	5.525E-12
S	314	1.504E-11	1.040E-11	7.719E-12	5.999E-12	4.793E-12	3.946E-12	3.311E-12
SSW	376	1.702E-11	1.179E-11	8.751E-12	6.802E-12	5.434E-12	4.475E-12	3.756E-12
SW	266	1.261E-11	8.760E-12	6.495E-12	5.039E-12	3.977E-12	3.267E-12	2.740E-12
WSW	236	1.423E-11	9.553E-12	6.545E-12	4.922E-12	3.818E-12	2.940E-12	2.420E-12
W	293	1.639E-11	1.116E-11	8.132E-12	6.213E-12	4.451E-12	3.381E-12	2.832E-12
WNW	337	2.328E-11	1.625E-11	1.169E-11	7.345E-12	5.425E-12	4.338E-12	3.546E-12
NW	420	2.613E-11	1.840E-11	1.351E-11	7.354E-12	5.746E-12	4.639E-12	3.820E-12
NNW	230	1.729E-11	1.155E-11	8.264E-12	6.191E-12	4.760E-12	3.775E-12	3.051E-12
AVERAGE	8502	2.420E-11	1.779E-11	1.377E-11	1.057E-11	8.476E-12	7.044E-12	5.922E-12

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

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	117	2.511E-05	7.524E-06	2.603E-06	1.443E-06	9.440E-07	5.107E-07	3.303E-07	2.368E-07	
NNE	171	2.793E-05	8.192E-06	2.938E-06	1.632E-06	1.067E-06	5.755E-07	3.719E-07	2.667E-07	
NE	160	3.693E-05	1.086E-05	3.680E-06	2.063E-06	1.363E-06	7.476E-07	4.866E-07	3.507E-07	
ENE	273	4.871E-05	1.431E-05	5.149E-06	2.854E-06	1.862E-06	1.002E-06	6.466E-07	4.631E-07	
E	429	4.964E-05	1.486E-05	5.318E-06	2.907E-06	1.882E-06	1.004E-06	6.457E-07	4.611E-07	
ESE	257	2.991E-05	9.132E-06	3.191E-06	1.720E-06	1.106E-06	5.903E-07	3.807E-07	2.721E-07	
SE	124	1.845E-05	5.508E-06	1.986E-06	1.084E-06	7.013E-07	3.734E-07	2.397E-07	1.710E-07	
SSE	66	8.088E-06	2.429E-06	8.368E-07	4.451E-07	2.848E-07	1.505E-07	9.693E-08	6.940E-08	
S	62	1.119E-05	3.380E-06	1.085E-06	5.847E-07	3.753E-07	1.986E-07	1.278E-07	9.140E-08	
SSW	74	8.242E-06	2.533E-06	8.143E-07	4.397E-07	2.828E-07	1.496E-07	9.592E-08	6.825E-08	
SW	76	6.773E-06	2.156E-06	6.853E-07	3.626E-07	2.302E-07	1.200E-07	7.650E-08	5.415E-08	
WSW	57	6.967E-06	2.155E-06	6.881E-07	3.676E-07	2.342E-07	1.242E-07	7.989E-08	5.694E-08	
W	70	8.696E-06	2.660E-06	8.731E-07	5.221E-07	3.359E-07	1.777E-07	1.034E-07	7.348E-08	
WNV	39	7.129E-06	2.129E-06	7.801E-07	4.295E-07	2.784E-07	1.485E-07	1.049E-07	7.485E-08	
NW	75	1.811E-05	5.354E-06	2.003E-06	1.105E-06	7.159E-07	3.812E-07	2.448E-07	1.746E-07	
NNW	45	1.267E-05	3.724E-06	1.358E-06	7.543E-07	4.920E-07	2.646E-07	1.706E-07	1.221E-07	
AVERAGE	2095	2.028E-05	6.056E-06	2.124E-06	1.170E-06	7.597E-07	4.074E-07	2.626E-07	1.879E-07	

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	117	1.817E-07	1.454E-07	1.199E-07	1.011E-07	8.689E-08	4.961E-08	3.355E-08	1.936E-08	
NNE	171	2.050E-07	1.641E-07	1.354E-07	1.139E-07	9.779E-08	5.549E-08	3.745E-08	2.162E-08	
NE	160	2.705E-07	2.173E-07	1.800E-07	1.522E-07	1.311E-07	7.552E-08	5.146E-08	3.004E-08	
ENE	273	3.557E-07	2.845E-07	2.345E-07	1.972E-07	1.692E-07	9.580E-08	6.461E-08	3.729E-08	
E	429	3.527E-07	2.813E-07	2.314E-07	1.944E-07	1.666E-07	9.398E-08	6.311E-08	3.616E-08	
ESE	257	2.076E-07	1.654E-07	1.361E-07	1.144E-07	9.813E-08	5.555E-08	3.727E-08	2.127E-08	
SE	124	1.307E-07	1.042E-07	9.420E-08	7.906E-08	6.768E-08	3.462E-08	2.323E-08	1.331E-08	
SSE	66	5.322E-08	4.256E-08	3.511E-08	2.958E-08	2.538E-08	1.444E-08	9.773E-09	5.684E-09	
S	62	6.994E-08	5.583E-08	4.596E-08	3.864E-08	3.313E-08	1.875E-08	1.261E-08	7.242E-09	
SSW	74	5.193E-08	4.128E-08	3.388E-08	2.843E-08	2.434E-08	1.370E-08	9.156E-09	5.194E-09	
SW	76	4.088E-08	3.232E-08	2.643E-08	2.213E-08	1.891E-08	1.059E-08	7.020E-09	3.919E-09	
WSW	57	4.328E-08	3.438E-08	3.102E-08	2.602E-08	2.228E-08	1.139E-08	7.629E-09	4.352E-09	
W	70	5.589E-08	4.439E-08	3.640E-08	3.049E-08	2.606E-08	1.460E-08	9.737E-09	5.511E-09	
WNV	39	5.720E-08	4.557E-08	3.404E-08	2.855E-08	2.443E-08	1.372E-08	9.177E-09	5.222E-09	
NW	75	1.335E-07	1.064E-07	8.739E-08	7.322E-08	6.260E-08	3.502E-08	2.339E-08	1.331E-08	
NNW	45	9.369E-08	7.487E-08	6.167E-08	5.182E-08	4.442E-08	2.508E-08	1.686E-08	9.674E-09	
AVERAGE	2095	1.440E-07	1.150E-07	9.521E-08	8.007E-08	6.868E-08	3.862E-08	2.600E-08	1.495E-08	

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	117	1.320E-08	9.861E-09	7.827E-09	6.445E-09	5.422E-09	4.671E-09	4.082E-09		
NNE	171	1.473E-08	1.100E-08	8.728E-09	7.186E-09	6.047E-09	5.217E-09	4.563E-09		
NE	160	2.060E-08	1.545E-08	1.230E-08	1.015E-08	8.557E-09	7.379E-09	6.453E-09		
ENE	273	2.540E-08	1.897E-08	1.505E-08	1.239E-08	1.043E-08	9.000E-09	7.874E-09		
E	429	2.459E-08	1.834E-08	1.453E-08	1.196E-08	1.007E-08	8.689E-09	7.606E-09		
ESE	257	1.445E-08	1.078E-08	8.544E-09	7.035E-09	5.924E-09	5.113E-09	4.479E-09		
SE	124	9.053E-09	6.754E-09	5.353E-09	4.407E-09	3.710E-09	3.204E-09	2.806E-09		
SSE	66	3.911E-09	2.944E-09	2.350E-09	1.946E-09	1.648E-09	1.430E-09	1.258E-09		
S	62	4.936E-09	3.690E-09	2.929E-09	2.414E-09	2.035E-09	1.759E-09	1.542E-09		
SSW	74	3.518E-09	2.617E-09	2.070E-09	1.701E-09	1.430E-09	1.233E-09	1.079E-09		
SW	76	2.639E-09	1.956E-09	1.542E-09	1.264E-09	1.061E-09	9.142E-10	7.997E-10		
WSW	57	2.956E-09	2.205E-09	1.748E-09	1.440E-09	1.213E-09	1.047E-09	9.174E-10		
W	70	3.722E-09	2.763E-09	2.181E-09	1.790E-09	1.502E-09	1.294E-09	1.131E-09		
WNV	39	3.532E-09	2.624E-09	2.073E-09	1.701E-09	1.428E-09	1.230E-09	1.075E-09		
NW	75	8.990E-09	6.673E-09	5.268E-09	4.322E-09	3.628E-09	3.127E-09	2.733E-09		
NNW	45	6.567E-09	4.891E-09	3.872E-09	3.183E-09	2.675E-09	2.306E-09	2.016E-09		
AVERAGE	2095	1.017E-08	7.595E-09	6.023E-09	4.959E-09	4.173E-09	3.601E-09	3.151E-09		

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

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	222	3.405E-05	1.028E-05	3.599E-06	1.941E-06	1.248E-06	6.698E-07	4.339E-07	3.111E-07
NNE	296	4.251E-05	1.268E-05	4.302E-06	2.357E-06	1.535E-06	8.375E-07	5.460E-07	3.936E-07
NE	221	5.355E-05	1.570E-05	4.831E-06	2.602E-06	1.693E-06	9.625E-07	6.461E-07	4.753E-07
ENE	114	3.034E-05	8.894E-06	2.858E-06	1.550E-06	1.009E-06	5.643E-07	3.748E-07	2.738E-07
E	121	2.969E-05	8.609E-06	3.012E-06	1.666E-06	1.090E-06	5.938E-07	3.865E-07	2.788E-07
ESE	102	2.053E-05	5.964E-06	1.960E-06	1.072E-06	7.009E-07	3.875E-07	2.551E-07	1.854E-07
SE	68	1.265E-05	3.747E-06	1.430E-06	7.867E-07	5.132E-07	2.768E-07	1.626E-07	1.166E-07
SSE	76	1.691E-05	5.137E-06	1.782E-06	8.883E-07	5.778E-07	3.102E-07	1.999E-07	1.428E-07
S	111	1.483E-05	4.427E-06	1.249E-06	6.700E-07	4.337E-07	2.323E-07	1.501E-07	1.076E-07
SSW	145	1.295E-05	4.052E-06	1.231E-06	6.441E-07	4.100E-07	2.152E-07	1.378E-07	9.802E-08
SW	86	1.190E-05	3.673E-06	1.138E-06	6.091E-07	3.923E-07	2.084E-07	1.338E-07	9.533E-08
WSW	104	1.896E-05	5.690E-06	1.719E-06	9.259E-07	5.992E-07	3.251E-07	2.118E-07	1.526E-07
W	138	1.901E-05	5.902E-06	1.871E-06	1.096E-06	6.998E-07	3.689E-07	2.151E-07	1.530E-07
WNW	130	2.234E-05	6.866E-06	2.468E-06	1.338E-06	8.598E-07	4.542E-07	3.197E-07	2.272E-07
NW	96	2.307E-05	6.942E-06	2.435E-06	1.345E-06	8.776E-07	4.726E-07	3.050E-07	2.182E-07
NNW	60	1.447E-05	4.374E-06	1.586E-06	8.716E-07	5.648E-07	3.011E-07	1.933E-07	1.377E-07
AVERAGE	2090	2.361E-05	7.058E-06	2.342E-06	1.273E-06	8.252E-07	4.488E-07	2.920E-07	2.104E-07

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	222	2.381E-07	1.901E-07	1.566E-07	1.318E-07	1.131E-07	6.417E-08	4.321E-08	2.487E-08
NNE	296	3.028E-07	2.428E-07	2.008E-07	1.697E-07	1.461E-07	8.391E-08	5.700E-08	3.317E-08
NE	221	3.704E-07	3.004E-07	2.509E-07	2.143E-07	1.863E-07	1.100E-07	7.627E-08	4.579E-08
ENE	114	2.126E-07	1.718E-07	1.430E-07	1.216E-07	1.054E-07	6.159E-08	4.240E-08	2.521E-08
E	121	2.152E-07	1.730E-07	1.432E-07	1.209E-07	1.040E-07	5.954E-08	4.047E-08	2.363E-08
ESE	102	1.439E-07	1.161E-07	9.658E-08	8.200E-08	7.090E-08	4.120E-08	2.830E-08	1.678E-08
SE	68	8.956E-08	7.171E-08	6.511E-08	5.488E-08	4.715E-08	2.688E-08	1.822E-08	1.059E-08
SSE	76	1.091E-07	8.701E-08	7.163E-08	6.028E-08	5.173E-08	2.938E-08	1.978E-08	1.132E-08
S	111	8.259E-08	6.614E-08	5.464E-08	4.613E-08	3.965E-08	2.267E-08	1.537E-08	8.937E-09
SSW	145	7.442E-08	5.915E-08	4.861E-08	4.091E-08	3.507E-08	1.990E-08	1.338E-08	7.649E-09
SW	86	7.255E-08	5.773E-08	4.746E-08	3.994E-08	3.425E-08	1.942E-08	1.304E-08	7.441E-09
WSW	104	1.173E-07	9.409E-08	8.562E-08	7.243E-08	6.241E-08	3.264E-08	2.222E-08	1.298E-08
W	138	1.162E-07	9.229E-08	7.573E-08	6.358E-08	5.442E-08	3.065E-08	2.047E-08	1.159E-08
WNW	130	1.727E-07	1.371E-07	1.021E-07	8.556E-08	7.315E-08	4.098E-08	2.731E-08	1.542E-08
NW	96	1.671E-07	1.334E-07	1.099E-07	9.249E-08	7.940E-08	4.511E-08	3.037E-08	1.741E-08
NNW	60	1.050E-07	8.358E-08	6.863E-08	5.756E-08	4.926E-08	2.768E-08	1.849E-08	1.049E-08
AVERAGE	2090	1.618E-07	1.298E-07	1.075E-07	9.088E-08	7.827E-08	4.473E-08	3.039E-08	1.771E-08

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	222	1.696E-08	1.268E-08	1.008E-08	8.310E-09	7.008E-09	6.056E-09	5.309E-09	
NNE	296	2.273E-08	1.705E-08	1.359E-08	1.123E-08	9.473E-09	8.181E-09	7.167E-09	
NE	221	3.191E-08	2.425E-08	1.952E-08	1.627E-08	1.382E-08	1.199E-08	1.055E-08	
ENE	114	1.747E-08	1.322E-08	1.061E-08	8.818E-09	7.478E-09	6.480E-09	5.695E-09	
E	121	1.621E-08	1.217E-08	9.695E-09	8.011E-09	6.762E-09	5.847E-09	5.125E-09	
ESE	102	1.162E-08	8.784E-09	7.040E-09	5.845E-09	4.953E-09	4.293E-09	3.772E-09	
SE	68	7.254E-09	5.440E-09	4.330E-09	3.575E-09	3.016E-09	2.606E-09	2.284E-09	
SSE	76	7.699E-09	5.742E-09	4.551E-09	3.744E-09	3.149E-09	2.713E-09	2.371E-09	
S	111	6.152E-09	4.633E-09	3.699E-09	3.064E-09	2.594E-09	2.250E-09	1.979E-09	
SSW	145	5.238E-09	3.932E-09	3.131E-09	2.589E-09	2.190E-09	1.898E-09	1.670E-09	
SW	86	5.070E-09	3.790E-09	3.009E-09	2.481E-09	2.091E-09	1.807E-09	1.584E-09	
WSW	104	8.940E-09	6.734E-09	5.380E-09	4.457E-09	3.772E-09	3.266E-09	2.869E-09	
W	138	7.863E-09	5.859E-09	4.639E-09	3.818E-09	3.215E-09	2.777E-09	2.434E-09	
WNW	130	1.041E-08	7.724E-09	6.096E-09	5.001E-09	4.197E-09	3.615E-09	3.159E-09	
NW	96	1.183E-08	8.813E-09	6.982E-09	5.741E-09	4.825E-09	4.155E-09	3.629E-09	
NNW	60	7.082E-09	5.255E-09	4.148E-09	3.402E-09	2.854E-09	2.456E-09	2.145E-09	
AVERAGE	2090	1.215E-08	9.130E-09	7.281E-09	6.022E-09	5.088E-09	4.399E-09	3.859E-09	

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

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	245	4.480E-05	1.342E-05	4.663E-06	2.566E-06	1.672E-06	9.026E-07	5.838E-07	4.185E-07	
NNE	536	8.518E-05	2.525E-05	8.407E-06	4.622E-06	3.026E-06	1.660E-06	1.085E-06	7.836E-07	
NE	330	7.168E-05	2.106E-05	6.695E-06	3.645E-06	2.382E-06	1.334E-06	8.853E-07	6.463E-07	
ENE	144	4.300E-05	1.259E-05	4.055E-06	2.224E-06	1.458E-06	8.140E-07	5.383E-07	3.921E-07	
E	65	2.137E-05	6.246E-06	2.112E-06	1.160E-06	7.573E-07	4.162E-07	2.728E-07	1.976E-07	
ESE	70	1.739E-05	5.149E-06	1.855E-06	1.018E-06	6.602E-07	3.530E-07	2.274E-07	1.627E-07	
SE	62	1.623E-05	4.813E-06	1.890E-06	1.042E-06	6.785E-07	3.646E-07	2.138E-07	1.531E-07	
SSE	71	1.725E-05	5.027E-06	1.793E-06	8.936E-07	5.816E-07	3.126E-07	2.020E-07	1.449E-07	
S	75	1.621E-05	4.880E-06	1.420E-06	7.678E-07	4.957E-07	2.642E-07	1.704E-07	1.219E-07	
SSW	114	1.294E-05	3.881E-06	1.193E-06	6.311E-07	4.047E-07	2.149E-07	1.392E-07	1.000E-07	
SW	120	1.728E-05	5.387E-06	1.680E-06	8.907E-07	5.684E-07	2.989E-07	1.915E-07	1.363E-07	
WSW	105	2.437E-05	7.351E-06	2.371E-06	1.289E-06	8.318E-07	4.424E-07	2.844E-07	2.030E-07	
W	64	1.338E-05	4.159E-06	1.356E-06	8.019E-07	5.122E-07	2.687E-07	1.558E-07	1.104E-07	
WNW	57	1.546E-05	4.598E-06	1.632E-06	8.825E-07	5.672E-07	3.057E-07	2.182E-07	1.568E-07	
NW	74	1.771E-05	5.269E-06	1.936E-06	1.061E-06	6.857E-07	3.648E-07	2.344E-07	1.673E-07	
NNW	44	1.335E-05	3.970E-06	1.460E-06	8.064E-07	5.236E-07	2.798E-07	1.799E-07	1.285E-07	
AVERAGE	2176	2.798E-05	8.316E-06	2.782E-06	1.519E-06	9.878E-07	5.373E-07	3.489E-07	2.514E-07	

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	245	3.209E-07	2.566E-07	2.117E-07	1.784E-07	1.532E-07	8.730E-08	5.896E-08	3.399E-08	
NNE	536	6.043E-07	4.857E-07	4.025E-07	3.408E-07	2.940E-07	1.698E-07	1.158E-07	6.781E-08	
NE	330	5.017E-07	4.054E-07	3.376E-07	2.873E-07	2.490E-07	1.458E-07	1.004E-07	5.975E-08	
ENE	144	3.042E-07	2.457E-07	2.044E-07	1.738E-07	1.505E-07	8.781E-08	6.041E-08	3.585E-08	
E	65	1.527E-07	1.229E-07	1.020E-07	8.632E-08	7.448E-08	4.296E-08	2.933E-08	1.724E-08	
ESE	70	1.247E-07	9.964E-08	8.206E-08	6.897E-08	5.912E-08	3.339E-08	2.246E-08	1.292E-08	
SE	62	1.173E-07	9.378E-08	8.501E-08	7.151E-08	6.134E-08	3.475E-08	2.339E-08	1.343E-08	
SSE	71	1.115E-07	8.930E-08	7.373E-08	6.209E-08	5.329E-08	3.024E-08	2.043E-08	1.184E-08	
S	75	9.338E-08	7.460E-08	6.148E-08	5.177E-08	4.442E-08	2.522E-08	1.699E-08	9.763E-09	
SSW	114	7.689E-08	6.166E-08	5.100E-08	4.310E-08	3.707E-08	2.124E-08	1.440E-08	8.353E-09	
SW	120	1.036E-07	8.229E-08	6.758E-08	5.679E-08	4.865E-08	2.750E-08	1.842E-08	1.047E-08	
WSW	105	1.551E-07	1.237E-07	1.119E-07	9.401E-08	8.055E-08	4.135E-08	2.777E-08	1.591E-08	
W	64	8.370E-08	6.631E-08	5.426E-08	4.540E-08	3.877E-08	2.165E-08	1.439E-08	8.108E-09	
WNW	57	1.202E-07	9.610E-08	7.200E-08	6.061E-08	5.203E-08	2.947E-08	1.987E-08	1.149E-08	
NW	74	1.279E-07	1.020E-07	8.385E-08	7.033E-08	6.018E-08	3.379E-08	2.261E-08	1.290E-08	
NNW	44	9.826E-08	7.834E-08	6.440E-08	5.403E-08	4.625E-08	2.599E-08	1.739E-08	9.908E-09	
AVERAGE	2176	1.935E-07	1.553E-07	1.291E-07	1.091E-07	9.393E-08	5.364E-08	3.645E-08	2.123E-08	

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	245	2.317E-08	1.732E-08	1.375E-08	1.133E-08	9.538E-09	8.226E-09	7.196E-09		
NNE	536	4.663E-08	3.507E-08	2.799E-08	2.316E-08	1.956E-08	1.690E-08	1.481E-08		
NE	330	4.143E-08	3.136E-08	2.517E-08	2.092E-08	1.773E-08	1.536E-08	1.350E-08		
ENE	144	2.482E-08	1.876E-08	1.504E-08	1.249E-08	1.058E-08	9.157E-09	8.039E-09		
E	65	1.187E-08	8.934E-09	7.137E-09	5.909E-09	4.996E-09	4.322E-09	3.792E-09		
ESE	70	8.792E-09	6.563E-09	5.204E-09	4.285E-09	3.608E-09	3.115E-09	2.728E-09		
SE	62	9.139E-09	6.819E-09	5.406E-09	4.449E-09	3.744E-09	3.230E-09	2.826E-09		
SSE	71	8.102E-09	6.073E-09	4.830E-09	3.988E-09	3.366E-09	2.913E-09	2.556E-09		
S	75	6.661E-09	4.982E-09	3.957E-09	3.263E-09	2.751E-09	2.378E-09	2.085E-09		
SSW	114	5.750E-09	4.332E-09	3.458E-09	2.866E-09	2.428E-09	2.108E-09	1.856E-09		
SW	120	7.127E-09	5.323E-09	4.222E-09	3.479E-09	2.933E-09	2.535E-09	2.223E-09		
WSW	105	1.082E-08	8.079E-09	6.405E-09	5.274E-09	4.440E-09	3.834E-09	3.357E-09		
W	64	5.470E-09	4.058E-09	3.202E-09	2.627E-09	2.205E-09	1.900E-09	1.661E-09		
WNW	57	7.844E-09	5.873E-09	4.671E-09	3.856E-09	3.255E-09	2.816E-09	2.471E-09		
NW	74	8.737E-09	6.498E-09	5.138E-09	4.222E-09	3.548E-09	3.060E-09	2.677E-09		
NNW	44	6.700E-09	4.977E-09	3.931E-09	3.226E-09	2.708E-09	2.333E-09	2.037E-09		
AVERAGE	2176	1.457E-08	1.094E-08	8.720E-09	7.208E-09	6.087E-09	5.262E-09	4.613E-09		

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

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	176	4.814E-05	1.436E-05	5.083E-06	2.818E-06	1.840E-06	9.922E-07	6.407E-07	4.588E-07	
NNE	378	7.801E-05	2.334E-05	8.018E-06	4.424E-06	2.890E-06	1.568E-06	1.017E-06	7.301E-07	
NE	281	6.887E-05	2.053E-05	6.896E-06	3.772E-06	2.456E-06	1.344E-06	8.783E-07	6.341E-07	
ENE	308	7.491E-05	2.200E-05	7.649E-06	4.191E-06	2.721E-06	1.476E-06	9.612E-07	6.932E-07	
E	166	3.905E-05	1.157E-05	3.991E-06	2.200E-06	1.436E-06	7.759E-07	5.023E-07	3.607E-07	
ESE	133	3.106E-05	9.217E-06	3.220E-06	1.777E-06	1.160E-06	6.261E-07	4.045E-07	2.900E-07	
SE	136	1.677E-05	5.218E-06	1.880E-06	1.013E-06	6.496E-07	3.419E-07	2.185E-07	1.550E-07	
SSE	49	8.191E-06	2.479E-06	8.590E-07	4.565E-07	2.915E-07	1.535E-07	9.846E-08	7.024E-08	
S	47	8.284E-06	2.591E-06	8.326E-07	4.446E-07	2.838E-07	1.488E-07	9.482E-08	6.714E-08	
SSW	62	1.263E-05	3.867E-06	1.269E-06	6.861E-07	4.408E-07	2.328E-07	1.491E-07	1.060E-07	
SW	43	8.553E-06	2.638E-06	8.668E-07	4.668E-07	2.983E-07	1.564E-07	9.961E-08	7.054E-08	
WSW	40	7.274E-06	2.371E-06	7.517E-07	3.948E-07	2.489E-07	1.285E-07	8.149E-08	5.738E-08	
W	35	9.985E-06	3.150E-06	1.058E-06	6.318E-07	4.050E-07	2.125E-07	1.229E-07	8.673E-08	
WNN	37	1.194E-05	3.618E-06	1.353E-06	7.419E-07	4.785E-07	2.532E-07	1.781E-07	1.265E-07	
NW	65	2.231E-05	6.655E-06	2.253E-06	1.212E-06	7.797E-07	4.268E-07	2.801E-07	2.027E-07	
NNW	72	2.277E-05	6.652E-06	2.300E-06	1.290E-06	8.510E-07	4.650E-07	3.022E-07	2.176E-07	
AVERAGE	2028	2.930E-05	8.766E-06	3.017E-06	1.658E-06	1.077E-06	5.813E-07	3.768E-07	2.704E-07	

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	176	3.517E-07	2.811E-07	2.317E-07	1.949E-07	1.673E-07	9.502E-08	6.402E-08	3.676E-08	
NNE	378	5.606E-07	4.488E-07	3.706E-07	3.126E-07	2.689E-07	1.538E-07	1.042E-07	6.029E-08	
NE	281	4.884E-07	3.920E-07	3.245E-07	2.745E-07	2.366E-07	1.363E-07	9.276E-08	5.417E-08	
ENE	308	5.346E-07	4.292E-07	3.550E-07	2.997E-07	2.580E-07	1.476E-07	1.003E-07	5.855E-08	
E	166	2.775E-07	2.224E-07	1.838E-07	1.550E-07	1.333E-07	7.622E-08	5.173E-08	3.010E-08	
ESE	133	2.226E-07	1.782E-07	1.470E-07	1.238E-07	1.064E-07	6.058E-08	4.098E-08	2.372E-08	
SE	136	1.174E-07	9.303E-08	8.376E-08	7.012E-08	5.989E-08	3.042E-08	2.016E-08	1.125E-08	
SSE	49	5.369E-08	4.282E-08	3.524E-08	2.963E-08	2.539E-08	1.436E-08	9.695E-09	5.617E-09	
S	47	5.080E-08	4.021E-08	3.290E-08	2.754E-08	2.352E-08	1.315E-08	8.741E-09	4.918E-09	
SSW	62	8.061E-08	6.402E-08	5.250E-08	4.400E-08	3.762E-08	2.107E-08	1.402E-08	7.901E-09	
SW	43	5.348E-08	4.237E-08	3.465E-08	2.897E-08	2.472E-08	1.376E-08	9.162E-09	5.185E-09	
WSW	40	4.305E-08	3.388E-08	3.035E-08	2.535E-08	2.161E-08	1.093E-08	7.204E-09	3.981E-09	
W	35	6.537E-08	5.155E-08	4.203E-08	3.506E-08	2.986E-08	1.651E-08	1.084E-08	5.951E-09	
WNN	37	9.615E-08	7.629E-08	5.679E-08	4.749E-08	4.053E-08	2.255E-08	1.495E-08	8.389E-09	
NW	65	1.560E-07	1.252E-07	1.036E-07	8.761E-08	7.552E-08	4.338E-08	2.950E-08	1.725E-08	
NNW	72	1.679E-07	1.348E-07	1.116E-07	9.424E-08	8.114E-08	4.656E-08	3.166E-08	1.844E-08	
AVERAGE	2028	2.075E-07	1.660E-07	1.372E-07	1.157E-07	9.939E-08	5.639E-08	3.812E-08	2.203E-08	

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	176	2.499E-08	1.862E-08	1.476E-08	1.214E-08	1.020E-08	8.785E-09	7.675E-09		
NNE	378	4.118E-08	3.081E-08	2.449E-08	2.019E-08	1.701E-08	1.466E-08	1.283E-08		
NE	281	3.719E-08	2.794E-08	2.229E-08	1.843E-08	1.556E-08	1.345E-08	1.178E-08		
ENE	308	4.016E-08	3.015E-08	2.402E-08	1.986E-08	1.676E-08	1.450E-08	1.271E-08		
E	166	2.062E-08	1.547E-08	1.231E-08	1.016E-08	8.572E-09	7.403E-09	6.483E-09		
ESE	133	1.620E-08	1.212E-08	9.634E-09	7.943E-09	6.692E-09	5.776E-09	5.055E-09		
SE	136	7.554E-09	5.583E-09	4.393E-09	3.595E-09	3.012E-09	2.591E-09	2.263E-09		
SSE	49	3.858E-09	2.901E-09	2.313E-09	1.914E-09	1.620E-09	1.405E-09	1.236E-09		
S	47	3.322E-09	2.468E-09	1.949E-09	1.601E-09	1.345E-09	1.160E-09	1.015E-09		
SSW	62	5.329E-09	3.952E-09	3.118E-09	2.557E-09	2.147E-09	1.850E-09	1.618E-09		
SW	43	3.506E-09	2.605E-09	2.058E-09	1.690E-09	1.420E-09	1.225E-09	1.072E-09		
WSW	40	2.668E-09	1.970E-09	1.549E-09	1.267E-09	1.062E-09	9.128E-10	7.974E-10		
W	35	3.950E-09	2.893E-09	2.260E-09	1.839E-09	1.532E-09	1.312E-09	1.140E-09		
WNN	37	5.628E-09	4.156E-09	3.268E-09	2.672E-09	2.236E-09	1.923E-09	1.677E-09		
NW	65	1.185E-08	8.916E-09	7.121E-09	5.897E-09	4.989E-09	4.319E-09	3.793E-09		
NNW	72	1.262E-08	9.457E-09	7.524E-09	6.206E-09	5.228E-09	4.508E-09	3.943E-09		
AVERAGE	2028	1.504E-08	1.125E-08	8.941E-09	7.372E-09	6.212E-09	5.361E-09	4.693E-09		

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

Pilgrim 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	760	3.801E-05	1.139E-05	3.985E-06	2.191E-06	1.425E-06	7.684E-07	4.969E-07	3.561E-07
NNE	1381	5.852E-05	1.740E-05	5.924E-06	3.263E-06	2.132E-06	1.162E-06	7.560E-07	5.444E-07
NE	992	5.781E-05	1.705E-05	5.526E-06	3.021E-06	1.974E-06	1.097E-06	7.244E-07	5.269E-07
ENE	839	4.898E-05	1.437E-05	4.899E-06	2.689E-06	1.752E-06	9.588E-07	6.268E-07	4.532E-07
E	781	3.478E-05	1.027E-05	3.591E-06	1.974E-06	1.285E-06	6.942E-07	4.497E-07	3.230E-07
ESE	562	2.460E-05	7.330E-06	2.545E-06	1.390E-06	9.027E-07	4.869E-07	3.154E-07	2.264E-07
SE	390	1.602E-05	4.819E-06	1.720E-06	9.396E-07	6.084E-07	3.246E-07	2.086E-07	1.489E-07
SSE	262	1.190E-05	3.555E-06	1.243E-06	6.746E-07	4.364E-07	2.331E-07	1.502E-07	1.075E-07
S	295	1.204E-05	3.642E-06	1.152E-06	6.196E-07	3.990E-07	2.120E-07	1.364E-07	9.750E-08
SSW	395	1.169E-05	3.584E-06	1.126E-06	5.999E-07	3.843E-07	2.030E-07	1.304E-07	9.305E-08
SW	325	1.121E-05	3.489E-06	1.100E-06	5.862E-07	3.748E-07	1.972E-07	1.262E-07	8.968E-08
WSW	306	1.454E-05	4.436E-06	1.397E-06	7.522E-07	4.837E-07	2.579E-07	1.662E-07	1.188E-07
W	307	1.279E-05	3.975E-06	1.292E-06	7.640E-07	4.890E-07	2.573E-07	1.495E-07	1.061E-07
WNW	263	1.424E-05	4.310E-06	1.560E-06	8.488E-07	5.465E-07	2.907E-07	2.055E-07	1.465E-07
NW	310	2.026E-05	6.042E-06	2.154E-06	1.179E-06	7.638E-07	4.107E-07	2.656E-07	1.904E-07
NNW	221	1.574E-05	4.658E-06	1.669E-06	9.265E-07	6.051E-07	3.261E-07	2.105E-07	1.507E-07
AVERAGE	8389	2.520E-05	7.520E-06	2.555E-06	1.401E-06	9.101E-07	4.925E-07	3.199E-07	2.299E-07

Pilgrim 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H 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	760	2.730E-07	2.182E-07	1.799E-07	1.515E-07	1.301E-07	7.399E-08	4.991E-08	2.874E-08
NNE	1381	4.189E-07	3.360E-07	2.778E-07	2.347E-07	2.021E-07	1.160E-07	7.878E-08	4.583E-08
NE	992	4.080E-07	3.290E-07	2.735E-07	2.323E-07	2.010E-07	1.170E-07	8.033E-08	4.751E-08
ENE	839	3.499E-07	2.813E-07	2.330E-07	1.971E-07	1.699E-07	9.774E-08	6.662E-08	3.905E-08
E	781	2.484E-07	1.990E-07	1.643E-07	1.385E-07	1.191E-07	6.787E-08	4.596E-08	2.667E-08
ESE	562	1.739E-07	1.392E-07	1.149E-07	9.683E-08	8.322E-08	4.744E-08	3.209E-08	1.857E-08
SE	390	1.138E-07	9.069E-08	8.205E-08	6.892E-08	5.904E-08	3.028E-08	2.032E-08	1.161E-08
SSE	262	8.236E-08	6.582E-08	5.426E-08	4.567E-08	3.919E-08	2.224E-08	1.501E-08	8.670E-09
S	295	7.454E-08	5.949E-08	4.899E-08	4.123E-08	3.536E-08	2.005E-08	1.350E-08	7.757E-09
SSW	395	7.094E-08	5.652E-08	4.649E-08	3.911E-08	3.352E-08	1.898E-08	1.274E-08	7.279E-09
SW	325	6.807E-08	5.404E-08	4.433E-08	3.721E-08	3.185E-08	1.794E-08	1.200E-08	6.803E-09
WSW	306	9.068E-08	7.229E-08	6.544E-08	5.506E-08	4.723E-08	2.434E-08	1.639E-08	9.411E-09
W	307	8.042E-08	6.374E-08	5.219E-08	4.371E-08	3.734E-08	2.089E-08	1.389E-08	7.807E-09
WNW	263	1.117E-07	8.890E-08	6.635E-08	5.565E-08	4.762E-08	2.673E-08	1.786E-08	1.015E-08
NW	310	1.459E-07	1.165E-07	9.599E-08	8.075E-08	6.928E-08	3.924E-08	2.641E-08	1.518E-08
NNW	221	1.156E-07	9.244E-08	7.618E-08	6.408E-08	5.498E-08	3.116E-08	2.098E-08	1.206E-08
AVERAGE	8389	1.766E-07	1.414E-07	1.172E-07	9.889E-08	8.504E-08	4.824E-08	3.267E-08	1.894E-08

Pilgrim 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

GROUND-LEVEL AVERAGE CHI/Q BEFORE DEPLETION (SPLIT-H MODEL) -- (SEC/M3)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	760	1.957E-08	1.462E-08	1.160E-08	9.552E-09	8.040E-09	6.933E-09	6.064E-09	
NNE	1381	3.139E-08	2.354E-08	1.875E-08	1.548E-08	1.306E-08	1.127E-08	9.868E-09	
NE	992	3.283E-08	2.479E-08	1.985E-08	1.647E-08	1.394E-08	1.206E-08	1.059E-08	
ENE	839	2.684E-08	2.019E-08	1.611E-08	1.333E-08	1.126E-08	9.742E-09	8.543E-09	
E	781	1.824E-08	1.367E-08	1.087E-08	8.973E-09	7.567E-09	6.537E-09	5.727E-09	
ESE	562	1.270E-08	9.513E-09	7.566E-09	6.245E-09	5.267E-09	4.551E-09	3.988E-09	
SE	390	7.885E-09	5.877E-09	4.654E-09	3.829E-09	3.221E-09	2.779E-09	2.431E-09	
SSE	262	5.929E-09	4.442E-09	3.533E-09	2.916E-09	2.461E-09	2.128E-09	1.867E-09	
S	295	5.296E-09	3.965E-09	3.150E-09	2.599E-09	2.193E-09	1.897E-09	1.664E-09	
SSW	395	4.963E-09	3.712E-09	2.948E-09	2.431E-09	2.051E-09	1.775E-09	1.558E-09	
SW	325	4.618E-09	3.443E-09	2.727E-09	2.245E-09	1.890E-09	1.632E-09	1.430E-09	
WSW	306	6.418E-09	4.800E-09	3.813E-09	3.144E-09	2.651E-09	2.290E-09	2.007E-09	
W	307	5.262E-09	3.902E-09	3.078E-09	2.524E-09	2.118E-09	1.825E-09	1.595E-09	
WNW	263	6.871E-09	5.108E-09	4.038E-09	3.317E-09	2.787E-09	2.403E-09	2.102E-09	
NW	310	1.032E-08	7.703E-09	6.109E-09	5.030E-09	4.234E-09	3.654E-09	3.198E-09	
NNW	221	8.194E-09	6.108E-09	4.839E-09	3.980E-09	3.345E-09	2.883E-09	2.519E-09	
AVERAGE	8389	1.296E-08	9.711E-09	7.727E-09	6.379E-09	5.380E-09	4.648E-09	4.072E-09	

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

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- 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	117	2.422E-05	7.147E-06	2.379E-06	1.286E-06	8.276E-07	4.353E-07	2.736E-07	1.917E-07	
NNE	171	2.694E-05	7.782E-06	2.685E-06	1.455E-06	9.352E-07	4.906E-07	3.081E-07	2.159E-07	
NE	160	3.562E-05	1.031E-05	3.364E-06	1.839E-06	1.195E-06	6.374E-07	4.031E-07	2.839E-07	
ENE	273	4.698E-05	1.359E-05	4.706E-06	2.544E-06	1.632E-06	8.542E-07	5.356E-07	3.749E-07	
E	429	4.787E-05	1.411E-05	4.861E-06	2.591E-06	1.650E-06	8.560E-07	5.349E-07	3.733E-07	
ESE	257	2.884E-05	8.674E-06	2.917E-06	1.533E-06	9.700E-07	5.032E-07	3.153E-07	2.203E-07	
SE	124	1.779E-05	5.232E-06	1.815E-06	9.664E-07	6.148E-07	3.183E-07	1.985E-07	1.384E-07	
SSE	66	7.800E-06	2.308E-06	7.648E-07	3.967E-07	2.497E-07	1.283E-07	8.029E-08	5.618E-08	
S	62	1.079E-05	3.210E-06	9.919E-07	5.211E-07	3.290E-07	1.693E-07	1.059E-07	7.399E-08	
SSW	74	7.949E-06	2.406E-06	7.442E-07	3.919E-07	2.479E-07	1.276E-07	7.945E-08	5.526E-08	
SW	76	6.532E-06	2.048E-06	6.264E-07	3.231E-07	2.018E-07	1.023E-07	6.337E-08	4.384E-08	
WSW	57	6.718E-06	2.047E-06	6.289E-07	3.276E-07	2.053E-07	1.059E-07	6.618E-08	4.609E-08	
W	70	8.386E-06	2.526E-06	7.980E-07	4.653E-07	2.945E-07	1.515E-07	8.563E-08	5.949E-08	
WNW	39	6.875E-06	2.022E-06	7.130E-07	3.827E-07	2.441E-07	1.266E-07	8.692E-08	6.060E-08	
NW	75	1.747E-05	5.086E-06	1.831E-06	9.848E-07	6.276E-07	3.250E-07	2.028E-07	1.413E-07	
NNW	45	1.222E-05	3.537E-06	1.241E-06	6.722E-07	4.314E-07	2.255E-07	1.413E-07	9.886E-08	
AVERAGE	2095	1.956E-05	5.752E-06	1.942E-06	1.042E-06	6.660E-07	3.473E-07	2.176E-07	1.521E-07	

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- 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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	117	1.445E-07	1.137E-07	9.246E-08	7.695E-08	6.533E-08	3.505E-08	2.257E-08	1.210E-08	
NNE	171	1.630E-07	1.284E-07	1.044E-07	8.673E-08	7.353E-08	3.921E-08	2.520E-08	1.351E-08	
NE	160	2.151E-07	1.700E-07	1.387E-07	1.158E-07	9.860E-08	5.336E-08	3.462E-08	1.877E-08	
ENE	273	2.828E-07	2.226E-07	1.808E-07	1.501E-07	1.272E-07	6.769E-08	4.346E-08	2.329E-08	
E	429	2.804E-07	2.201E-07	1.784E-07	1.480E-07	1.252E-07	6.640E-08	4.246E-08	2.259E-08	
ESE	257	1.651E-07	1.294E-07	1.049E-07	8.711E-08	7.378E-08	3.925E-08	2.507E-08	1.328E-08	
SE	124	1.039E-07	8.150E-08	7.262E-08	6.018E-08	5.089E-08	2.446E-08	1.563E-08	8.315E-09	
SSE	66	4.232E-08	3.330E-08	2.706E-08	2.251E-08	1.909E-08	1.020E-08	6.575E-09	3.551E-09	
S	62	5.561E-08	4.368E-08	3.543E-08	2.942E-08	2.491E-08	1.325E-08	8.483E-09	4.524E-09	
SSW	74	4.130E-08	3.230E-08	2.612E-08	2.164E-08	1.830E-08	9.677E-09	6.160E-09	3.244E-09	
SW	76	3.251E-08	2.529E-08	2.037E-08	1.685E-08	1.422E-08	7.479E-09	4.722E-09	2.448E-09	
WSW	57	3.442E-08	2.689E-08	2.391E-08	1.981E-08	1.675E-08	8.051E-09	5.132E-09	2.719E-09	
W	70	4.444E-08	3.473E-08	2.806E-08	2.321E-08	1.960E-08	1.032E-08	6.551E-09	3.443E-09	
WNW	39	4.548E-08	3.565E-08	2.624E-08	2.173E-08	1.837E-08	9.694E-09	6.173E-09	3.262E-09	
NW	75	1.062E-07	8.323E-08	6.736E-08	5.573E-08	4.707E-08	2.475E-08	1.574E-08	8.311E-09	
NNW	45	7.449E-08	5.858E-08	4.754E-08	3.945E-08	3.340E-08	1.772E-08	1.134E-08	6.043E-09	
AVERAGE	2095	1.145E-07	8.996E-08	7.340E-08	6.096E-08	5.164E-08	2.728E-08	1.749E-08	9.337E-09	

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- 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)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	117	7.683E-09	5.415E-09	4.090E-09	3.226E-09	2.610E-09	2.173E-09	1.840E-09		
NNE	171	8.575E-09	6.041E-09	4.561E-09	3.597E-09	2.911E-09	2.427E-09	2.057E-09		
NE	160	1.199E-08	8.483E-09	6.428E-09	5.083E-09	4.119E-09	3.433E-09	2.909E-09		
ENE	273	1.479E-08	1.042E-08	7.865E-09	6.204E-09	5.021E-09	4.188E-09	3.549E-09		
E	429	1.431E-08	1.007E-08	7.594E-09	5.988E-09	4.845E-09	4.043E-09	3.428E-09		
ESE	257	8.411E-09	5.919E-09	4.465E-09	3.522E-09	2.851E-09	2.379E-09	2.019E-09		
SE	124	5.270E-09	3.709E-09	2.797E-09	2.206E-09	1.786E-09	1.491E-09	1.265E-09		
SSE	66	2.276E-09	1.617E-09	1.228E-09	9.742E-10	7.931E-10	6.653E-10	5.670E-10		
S	62	2.873E-09	2.026E-09	1.531E-09	1.209E-09	9.796E-10	8.185E-10	6.951E-10		
SSW	74	2.048E-09	1.437E-09	1.082E-09	8.517E-10	6.884E-10	5.738E-10	4.863E-10		
SW	76	1.536E-09	1.074E-09	8.057E-10	6.329E-10	5.108E-10	4.254E-10	3.604E-10		
WSW	57	1.721E-09	1.211E-09	9.136E-10	7.208E-10	5.837E-10	4.872E-10	4.135E-10		
W	70	2.167E-09	1.517E-09	1.140E-09	8.959E-10	7.231E-10	6.021E-10	5.096E-10		
WNW	39	2.056E-09	1.441E-09	1.083E-09	8.516E-10	6.874E-10	5.725E-10	4.846E-10		
NW	75	5.233E-09	3.665E-09	2.753E-09	2.164E-09	1.746E-09	1.455E-09	1.232E-09		
NNW	45	3.823E-09	2.686E-09	2.023E-09	1.593E-09	1.288E-09	1.073E-09	9.086E-10		
AVERAGE	2095	5.922E-09	4.171E-09	3.147E-09	2.482E-09	2.009E-09	1.675E-09	1.420E-09		

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

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level -- 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	222	3.284E-05	9.766E-06	3.290E-06	1.730E-06	1.094E-06	5.710E-07	3.594E-07	2.519E-07
NNE	296	4.100E-05	1.205E-05	3.932E-06	2.100E-06	1.345E-06	7.139E-07	4.523E-07	3.186E-07
NE	221	5.165E-05	1.491E-05	4.415E-06	2.319E-06	1.485E-06	8.205E-07	5.352E-07	3.848E-07
ENE	114	2.926E-05	8.448E-06	2.612E-06	1.381E-06	8.845E-07	4.811E-07	3.105E-07	2.217E-07
E	121	2.863E-05	8.178E-06	2.752E-06	1.485E-06	9.558E-07	5.062E-07	3.202E-07	2.257E-07
ESE	102	1.980E-05	5.665E-06	1.791E-06	9.549E-07	6.145E-07	3.304E-07	2.113E-07	1.501E-07
SE	68	1.220E-05	3.559E-06	1.307E-06	7.011E-07	4.499E-07	2.360E-07	1.347E-07	9.436E-08
SSE	76	1.631E-05	4.880E-06	1.629E-06	7.916E-07	5.066E-07	2.645E-07	1.656E-07	1.156E-07
S	111	1.431E-05	4.205E-06	1.141E-06	5.970E-07	3.802E-07	1.980E-07	1.243E-07	8.712E-08
SSW	145	1.249E-05	3.849E-06	1.125E-06	5.740E-07	3.594E-07	1.834E-07	1.142E-07	7.935E-08
SW	86	1.147E-05	3.489E-06	1.040E-06	5.428E-07	3.439E-07	1.776E-07	1.108E-07	7.718E-08
WSW	104	1.828E-05	5.405E-06	1.572E-06	8.251E-07	5.253E-07	2.772E-07	1.754E-07	1.235E-07
W	138	1.834E-05	5.606E-06	1.710E-06	9.763E-07	6.135E-07	3.145E-07	1.781E-07	1.239E-07
WNW	130	2.154E-05	6.522E-06	2.256E-06	1.192E-06	7.538E-07	3.872E-07	2.648E-07	1.839E-07
NW	96	2.225E-05	6.594E-06	2.226E-06	1.199E-06	7.694E-07	4.029E-07	2.526E-07	1.767E-07
NNW	60	1.396E-05	4.155E-06	1.450E-06	7.767E-07	4.951E-07	2.567E-07	1.601E-07	1.115E-07
AVERAGE	2090	2.277E-05	6.705E-06	2.140E-06	1.134E-06	7.235E-07	3.826E-07	2.418E-07	1.704E-07

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level -- 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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	222	1.893E-07	1.487E-07	1.207E-07	1.003E-07	8.506E-08	4.534E-08	2.907E-08	1.553E-08
NNE	296	2.407E-07	1.900E-07	1.548E-07	1.292E-07	1.099E-07	5.929E-08	3.835E-08	2.072E-08
NE	221	2.945E-07	2.350E-07	1.934E-07	1.631E-07	1.401E-07	7.773E-08	5.131E-08	2.861E-08
ENE	114	1.690E-07	1.344E-07	1.102E-07	9.260E-08	7.925E-08	4.351E-08	2.852E-08	1.575E-08
E	121	1.711E-07	1.353E-07	1.103E-07	9.201E-08	7.822E-08	4.207E-08	2.722E-08	1.476E-08
ESE	102	1.144E-07	9.087E-08	7.445E-08	6.242E-08	5.331E-08	2.911E-08	1.904E-08	1.048E-08
SE	68	7.121E-08	5.610E-08	5.019E-08	4.177E-08	3.545E-08	1.899E-08	1.226E-08	6.615E-09
SSE	76	8.675E-08	6.808E-08	5.522E-08	4.589E-08	3.889E-08	2.076E-08	1.330E-08	7.074E-09
S	111	6.567E-08	5.174E-08	4.212E-08	3.512E-08	2.982E-08	1.602E-08	1.034E-08	5.583E-09
SSW	145	5.918E-08	4.628E-08	3.747E-08	3.114E-08	2.637E-08	1.406E-08	8.999E-09	4.778E-09
SW	86	5.768E-08	4.516E-08	3.659E-08	3.040E-08	2.575E-08	1.372E-08	8.775E-09	4.648E-09
WSW	104	9.328E-08	7.361E-08	6.600E-08	5.513E-08	4.692E-08	2.306E-08	1.495E-08	8.110E-09
W	138	9.240E-08	7.220E-08	5.838E-08	4.840E-08	4.092E-08	2.166E-08	1.377E-08	7.242E-09
WNW	130	1.373E-07	1.072E-07	7.873E-08	6.513E-08	5.500E-08	2.895E-08	1.837E-08	9.634E-09
NW	96	1.328E-07	1.044E-07	8.472E-08	7.041E-08	5.970E-08	3.187E-08	2.043E-08	1.087E-08
NNW	60	8.352E-08	6.539E-08	5.291E-08	4.382E-08	3.704E-08	1.956E-08	1.244E-08	6.551E-09
AVERAGE	2090	1.287E-07	1.015E-07	8.289E-08	6.918E-08	5.885E-08	3.161E-08	2.045E-08	1.106E-08

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level -- 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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	222	9.870E-09	6.963E-09	5.265E-09	4.160E-09	3.373E-09	2.818E-09	2.393E-09	
NNE	296	1.323E-08	9.366E-09	7.101E-09	5.620E-09	4.560E-09	3.807E-09	3.230E-09	
NE	221	1.858E-08	1.332E-08	1.020E-08	8.143E-09	6.654E-09	5.579E-09	4.755E-09	
ENE	114	1.017E-08	7.262E-09	5.545E-09	4.414E-09	3.600E-09	3.015E-09	2.567E-09	
E	121	9.436E-09	6.683E-09	5.066E-09	4.010E-09	3.255E-09	2.721E-09	2.310E-09	
ESE	102	6.763E-09	4.824E-09	3.679E-09	2.926E-09	2.384E-09	1.997E-09	1.700E-09	
SE	68	4.223E-09	2.988E-09	2.263E-09	1.790E-09	1.452E-09	1.213E-09	1.029E-09	
SSE	76	4.482E-09	3.153E-09	2.378E-09	1.874E-09	1.516E-09	1.262E-09	1.069E-09	
S	111	3.581E-09	2.544E-09	1.933E-09	1.534E-09	1.249E-09	1.047E-09	8.919E-10	
SSW	145	3.049E-09	2.159E-09	1.636E-09	1.296E-09	1.054E-09	8.831E-10	7.526E-10	
SW	86	2.951E-09	2.081E-09	1.572E-09	1.242E-09	1.007E-09	8.408E-10	7.142E-10	
WSW	104	5.204E-09	3.698E-09	2.812E-09	2.231E-09	1.816E-09	1.520E-09	1.293E-09	
W	138	4.577E-09	3.217E-09	2.424E-09	1.911E-09	1.548E-09	1.292E-09	1.097E-09	
WNW	130	6.060E-09	4.242E-09	3.186E-09	2.503E-09	2.020E-09	1.682E-09	1.424E-09	
NW	96	6.884E-09	4.840E-09	3.649E-09	2.874E-09	2.322E-09	1.933E-09	1.636E-09	
NNW	60	4.122E-09	2.886E-09	2.168E-09	1.703E-09	1.374E-09	1.143E-09	9.667E-10	
AVERAGE	2090	7.074E-09	5.014E-09	3.805E-09	3.015E-09	2.449E-09	2.047E-09	1.739E-09	

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

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- 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	245	4.321E-05	1.274E-05	4.262E-06	2.286E-06	1.466E-06	7.694E-07	4.836E-07	3.388E-07
NNE	536	8.215E-05	2.399E-05	7.684E-06	4.119E-06	2.653E-06	1.415E-06	8.985E-07	6.344E-07
NE	330	6.913E-05	2.001E-05	6.119E-06	3.248E-06	2.088E-06	1.137E-06	7.333E-07	5.232E-07
ENE	144	4.147E-05	1.196E-05	3.706E-06	1.982E-06	1.278E-06	6.940E-07	4.459E-07	3.175E-07
E	65	2.061E-05	5.933E-06	1.931E-06	1.034E-06	6.639E-07	3.548E-07	2.259E-07	1.599E-07
ESE	70	1.677E-05	4.890E-06	1.695E-06	9.071E-07	5.788E-07	3.010E-07	1.884E-07	1.317E-07
SE	62	1.565E-05	4.572E-06	1.728E-06	9.283E-07	5.948E-07	3.108E-07	1.771E-07	1.239E-07
SSE	71	1.664E-05	4.775E-06	1.639E-06	7.963E-07	5.099E-07	2.665E-07	1.673E-07	1.173E-07
S	75	1.563E-05	4.636E-06	1.298E-06	6.842E-07	4.346E-07	2.253E-07	1.411E-07	9.872E-08
SSW	114	1.248E-05	3.687E-06	1.091E-06	5.624E-07	3.548E-07	1.832E-07	1.153E-07	8.100E-08
SW	120	1.667E-05	5.117E-06	1.536E-06	7.937E-07	4.984E-07	2.548E-07	1.587E-07	1.103E-07
WSW	105	2.351E-05	6.983E-06	2.167E-06	1.148E-06	7.292E-07	3.772E-07	2.356E-07	1.643E-07
W	64	1.291E-05	3.951E-06	1.240E-06	7.146E-07	4.491E-07	2.290E-07	1.291E-07	8.940E-08
WNNW	57	1.491E-05	4.368E-06	1.492E-06	7.864E-07	4.973E-07	2.606E-07	1.808E-07	1.269E-07
NW	74	1.708E-05	5.005E-06	1.769E-06	9.454E-07	6.012E-07	3.110E-07	1.941E-07	1.354E-07
NNW	44	1.288E-05	3.771E-06	1.334E-06	7.186E-07	4.590E-07	2.385E-07	1.490E-07	1.040E-07
AVERAGE	2176	2.698E-05	7.899E-06	2.543E-06	1.353E-06	8.660E-07	4.580E-07	2.890E-07	2.036E-07

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- 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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	245	2.552E-07	2.008E-07	1.632E-07	1.358E-07	1.152E-07	6.168E-08	3.967E-08	2.123E-08
NNE	536	4.805E-07	3.800E-07	3.103E-07	2.594E-07	2.210E-07	1.200E-07	7.792E-08	4.236E-08
NE	330	3.989E-07	3.172E-07	2.602E-07	2.187E-07	1.872E-07	1.030E-07	6.758E-08	3.732E-08
ENE	144	2.419E-07	1.922E-07	1.576E-07	1.323E-07	1.131E-07	6.204E-08	4.064E-08	2.239E-08
E	65	1.215E-07	9.619E-08	7.859E-08	6.571E-08	5.600E-08	3.035E-08	1.973E-08	1.077E-08
ESE	70	9.917E-08	7.795E-08	6.326E-08	5.250E-08	4.445E-08	2.359E-08	1.511E-08	8.068E-09
SE	62	9.331E-08	7.337E-08	6.553E-08	5.444E-08	4.612E-08	2.455E-08	1.573E-08	8.392E-09
SSE	71	8.863E-08	6.987E-08	5.683E-08	4.727E-08	4.007E-08	2.137E-08	1.375E-08	7.396E-09
S	75	7.425E-08	5.836E-08	4.739E-08	3.941E-08	3.340E-08	1.782E-08	1.143E-08	6.099E-09
SSW	114	6.114E-08	4.824E-08	3.932E-08	3.281E-08	2.788E-08	1.501E-08	9.684E-09	5.218E-09
SW	120	8.234E-08	6.438E-08	5.209E-08	4.323E-08	3.658E-08	1.943E-08	1.239E-08	6.543E-09
WSW	105	1.233E-07	9.676E-08	8.626E-08	7.156E-08	6.056E-08	2.921E-08	1.868E-08	9.939E-09
W	64	6.655E-08	5.188E-08	4.183E-08	3.456E-08	2.915E-08	1.529E-08	9.683E-09	5.065E-09
WNNW	57	9.560E-08	7.518E-08	5.551E-08	4.614E-08	3.912E-08	2.082E-08	1.337E-08	7.174E-09
NW	74	1.017E-07	7.980E-08	6.464E-08	5.354E-08	4.525E-08	2.387E-08	1.521E-08	8.057E-09
NNW	44	7.813E-08	6.129E-08	4.965E-08	4.113E-08	3.477E-08	1.836E-08	1.170E-08	6.189E-09
AVERAGE	2176	1.539E-07	1.215E-07	9.951E-08	8.303E-08	7.062E-08	3.790E-08	2.452E-08	1.326E-08

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- 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)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	245	1.349E-08	9.511E-09	7.186E-09	5.671E-09	4.591E-09	3.828E-09	3.244E-09
NNE	536	2.714E-08	1.926E-08	1.463E-08	1.159E-08	9.416E-09	7.865E-09	6.678E-09
NE	330	2.412E-08	1.722E-08	1.315E-08	1.047E-08	8.537E-09	7.147E-09	6.083E-09
ENE	144	1.445E-08	1.030E-08	7.860E-09	6.251E-09	5.092E-09	4.261E-09	3.624E-09
E	65	6.908E-09	4.906E-09	3.729E-09	2.958E-09	2.405E-09	2.011E-09	1.709E-09
ESE	70	5.118E-09	3.604E-09	2.720E-09	2.145E-09	1.737E-09	1.450E-09	1.229E-09
SE	62	5.320E-09	3.745E-09	2.825E-09	2.227E-09	1.802E-09	1.503E-09	1.274E-09
SSE	71	4.716E-09	3.335E-09	2.524E-09	1.996E-09	1.620E-09	1.356E-09	1.152E-09
S	75	3.877E-09	2.736E-09	2.068E-09	1.634E-09	1.324E-09	1.107E-09	9.398E-10
SSW	114	3.347E-09	2.379E-09	1.807E-09	1.435E-09	1.169E-09	9.808E-10	8.366E-10
SW	120	4.148E-09	2.923E-09	2.206E-09	1.742E-09	1.412E-09	1.179E-09	1.002E-09
WSW	105	6.301E-09	4.436E-09	3.347E-09	2.640E-09	2.137E-09	1.784E-09	1.513E-09
W	64	3.184E-09	2.228E-09	1.673E-09	1.315E-09	1.061E-09	8.841E-10	7.488E-10
WNNW	57	4.566E-09	3.225E-09	2.441E-09	1.931E-09	1.567E-09	1.310E-09	1.114E-09
NW	74	5.086E-09	3.569E-09	2.685E-09	2.113E-09	1.708E-09	1.424E-09	1.207E-09
NNW	44	3.900E-09	2.733E-09	2.054E-09	1.615E-09	1.303E-09	1.085E-09	9.184E-10
AVERAGE	2176	8.479E-09	6.007E-09	4.557E-09	3.608E-09	2.930E-09	2.448E-09	2.080E-09

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

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- 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	176	4.642E-05	1.364E-05	4.646E-06	2.511E-06	1.613E-06	8.458E-07	5.307E-07	3.714E-07
NNE	378	7.523E-05	2.217E-05	7.328E-06	3.943E-06	2.534E-06	1.336E-06	8.420E-07	5.910E-07
NE	281	6.641E-05	1.950E-05	6.302E-06	3.362E-06	2.153E-06	1.146E-06	7.275E-07	5.134E-07
ENE	308	7.224E-05	2.090E-05	6.991E-06	3.735E-06	2.386E-06	1.258E-06	7.962E-07	5.612E-07
E	166	3.766E-05	1.099E-05	3.648E-06	1.961E-06	1.259E-06	6.615E-07	4.161E-07	2.920E-07
ESE	133	2.995E-05	8.755E-06	2.943E-06	1.584E-06	1.017E-06	5.337E-07	3.351E-07	2.347E-07
SE	136	1.617E-05	4.956E-06	1.718E-06	9.029E-07	5.695E-07	2.915E-07	1.810E-07	1.255E-07
SSE	49	7.899E-06	2.355E-06	7.851E-07	4.068E-07	2.555E-07	1.309E-07	8.155E-08	5.686E-08
S	47	7.989E-06	2.461E-06	7.610E-07	3.962E-07	2.488E-07	1.268E-07	7.854E-08	5.435E-08
SSW	62	1.218E-05	3.673E-06	1.160E-06	6.114E-07	3.865E-07	1.985E-07	1.235E-07	8.583E-08
SW	43	8.248E-06	2.506E-06	7.923E-07	4.160E-07	2.615E-07	1.334E-07	8.251E-08	5.710E-08
WSW	40	7.015E-06	2.252E-06	6.871E-07	3.519E-07	2.182E-07	1.096E-07	6.750E-08	4.645E-08
W	35	9.629E-06	2.992E-06	9.671E-07	5.630E-07	3.550E-07	1.811E-07	1.018E-07	7.021E-08
WNW	37	1.151E-05	3.437E-06	1.236E-06	6.611E-07	4.195E-07	2.158E-07	1.475E-07	1.024E-07
NW	65	2.151E-05	6.321E-06	2.059E-06	1.080E-06	6.836E-07	3.638E-07	2.320E-07	1.641E-07
NNW	72	2.196E-05	6.319E-06	2.102E-06	1.150E-06	7.461E-07	3.964E-07	2.503E-07	1.762E-07
AVERAGE	2028	2.825E-05	8.327E-06	2.758E-06	1.477E-06	9.442E-07	4.956E-07	3.121E-07	2.189E-07

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- 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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	176	2.796E-07	2.199E-07	1.786E-07	1.484E-07	1.258E-07	6.713E-08	4.307E-08	2.297E-08
NNE	378	4.457E-07	3.511E-07	2.856E-07	2.379E-07	2.022E-07	1.087E-07	7.007E-08	3.766E-08
NE	281	3.883E-07	3.067E-07	2.501E-07	2.089E-07	1.779E-07	9.627E-08	6.240E-08	3.384E-08
ENE	308	4.251E-07	3.358E-07	2.737E-07	2.282E-07	1.940E-07	1.043E-07	6.748E-08	3.657E-08
E	166	2.206E-07	1.740E-07	1.417E-07	1.180E-07	1.002E-07	5.385E-08	3.480E-08	1.880E-08
ESE	133	1.770E-07	1.394E-07	1.133E-07	9.427E-08	7.998E-08	4.280E-08	2.757E-08	1.481E-08
SE	136	9.337E-08	7.278E-08	6.457E-08	5.338E-08	4.503E-08	2.149E-08	1.356E-08	7.029E-09
SSE	49	4.269E-08	3.350E-08	2.717E-08	2.255E-08	1.909E-08	1.015E-08	6.522E-09	3.509E-09
S	47	4.039E-08	3.146E-08	2.536E-08	2.096E-08	1.768E-08	9.288E-09	5.880E-09	3.072E-09
SSW	62	6.410E-08	5.009E-08	4.047E-08	3.350E-08	2.828E-08	1.489E-08	9.435E-09	4.935E-09
SW	43	4.253E-08	3.314E-08	2.671E-08	2.205E-08	1.858E-08	9.725E-09	6.163E-09	3.239E-09
WSW	40	3.423E-08	2.650E-08	2.340E-08	1.930E-08	1.625E-08	7.719E-09	4.847E-09	2.487E-09
W	35	5.198E-08	4.033E-08	3.240E-08	2.659E-08	2.245E-08	1.166E-08	7.292E-09	3.718E-09
WNW	37	7.645E-08	5.969E-08	4.378E-08	3.615E-08	3.047E-08	1.593E-08	1.006E-08	5.240E-09
NW	65	1.241E-07	9.795E-08	7.985E-08	6.669E-08	5.678E-08	3.065E-08	1.985E-08	1.077E-08
NNW	72	1.335E-07	1.055E-07	8.602E-08	7.174E-08	6.101E-08	3.290E-08	2.130E-08	1.152E-08
AVERAGE	2028	1.650E-07	1.299E-07	1.058E-07	8.804E-08	7.473E-08	3.984E-08	2.564E-08	1.376E-08

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- 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)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	176	1.454E-08	1.023E-08	7.711E-09	6.075E-09	4.910E-09	4.088E-09	3.460E-09
NNE	378	2.397E-08	1.692E-08	1.280E-08	1.011E-08	8.186E-09	6.823E-09	5.782E-09
NE	281	2.165E-08	1.534E-08	1.165E-08	9.226E-09	7.492E-09	6.257E-09	5.312E-09
ENE	308	2.338E-08	1.656E-08	1.255E-08	9.940E-09	8.070E-09	6.745E-09	5.729E-09
E	166	1.200E-08	8.493E-09	6.434E-09	5.088E-09	4.126E-09	3.444E-09	2.922E-09
ESE	133	9.430E-09	6.657E-09	5.034E-09	3.976E-09	3.221E-09	2.687E-09	2.279E-09
SE	136	4.397E-09	3.066E-09	2.296E-09	1.800E-09	1.450E-09	1.206E-09	1.020E-09
SSE	49	2.246E-09	1.593E-09	1.209E-09	9.583E-10	7.797E-10	6.539E-10	5.572E-10
S	47	1.934E-09	1.355E-09	1.019E-09	8.013E-10	6.475E-10	5.398E-10	4.577E-10
SSW	62	3.102E-09	2.170E-09	1.629E-09	1.280E-09	1.033E-09	8.609E-10	7.292E-10
SW	43	2.041E-09	1.430E-09	1.075E-09	8.460E-10	6.836E-10	5.700E-10	4.831E-10
WSW	40	1.553E-09	1.082E-09	8.094E-10	6.343E-10	5.110E-10	4.247E-10	3.594E-10
W	35	2.299E-09	1.589E-09	1.181E-09	9.204E-10	7.373E-10	6.103E-10	5.140E-10
WNW	37	3.276E-09	2.282E-09	1.708E-09	1.338E-09	1.077E-09	8.949E-10	7.561E-10
NW	65	6.899E-09	4.896E-09	3.721E-09	2.952E-09	2.402E-09	2.010E-09	1.710E-09
NNW	72	7.348E-09	5.193E-09	3.932E-09	3.107E-09	2.516E-09	2.098E-09	1.777E-09
AVERAGE	2028	8.754E-09	6.178E-09	4.672E-09	3.691E-09	2.990E-09	2.495E-09	2.115E-09

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

Pilgrim 2001 General X/Q- Ground Level -- 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	760	3.666E-05	1.082E-05	3.642E-06	1.952E-06	1.249E-06	6.550E-07	4.116E-07	2.883E-07
NNE	1381	5.644E-05	1.653E-05	5.415E-06	2.908E-06	1.869E-06	9.905E-07	6.262E-07	4.407E-07
NE	992	5.575E-05	1.619E-05	5.051E-06	2.692E-06	1.730E-06	9.356E-07	6.001E-07	4.266E-07
ENE	839	4.724E-05	1.365E-05	4.477E-06	2.396E-06	1.536E-06	8.174E-07	5.192E-07	3.669E-07
E	781	3.354E-05	9.757E-06	3.282E-06	1.759E-06	1.127E-06	5.918E-07	3.725E-07	2.615E-07
ESE	562	2.373E-05	6.962E-06	2.326E-06	1.239E-06	7.914E-07	4.151E-07	2.613E-07	1.833E-07
SE	390	1.545E-05	4.577E-06	1.572E-06	8.373E-07	5.334E-07	2.767E-07	1.728E-07	1.205E-07
SSE	262	1.147E-05	3.377E-06	1.136E-06	6.012E-07	3.826E-07	1.987E-07	1.244E-07	8.700E-08
S	295	1.161E-05	3.459E-06	1.053E-06	5.521E-07	3.498E-07	1.807E-07	1.130E-07	7.893E-08
SSW	395	1.128E-05	3.404E-06	1.030E-06	5.346E-07	3.369E-07	1.730E-07	1.080E-07	7.533E-08
SW	325	1.081E-05	3.314E-06	1.005E-06	5.224E-07	3.286E-07	1.681E-07	1.045E-07	7.260E-08
WSW	306	1.403E-05	4.213E-06	1.277E-06	6.703E-07	4.241E-07	2.198E-07	1.376E-07	9.614E-08
W	307	1.234E-05	3.776E-06	1.181E-06	6.809E-07	4.287E-07	2.194E-07	1.238E-07	8.588E-08
WNW	263	1.374E-05	4.094E-06	1.426E-06	7.564E-07	4.792E-07	2.479E-07	1.702E-07	1.186E-07
NW	310	1.954E-05	5.739E-06	1.968E-06	1.051E-06	6.696E-07	3.502E-07	2.200E-07	1.541E-07
NNW	221	1.518E-05	4.424E-06	1.525E-06	8.257E-07	5.305E-07	2.780E-07	1.744E-07	1.220E-07
AVERAGE	8389	2.430E-05	7.143E-06	2.335E-06	1.249E-06	7.979E-07	4.199E-07	2.650E-07	1.862E-07

Pilgrim 2001 General X/Q- Ground Level -- 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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	760	2.170E-07	1.707E-07	1.386E-07	1.153E-07	9.781E-08	5.228E-08	3.358E-08	1.795E-08
NNE	1381	3.331E-07	2.628E-07	2.141E-07	1.786E-07	1.519E-07	8.194E-08	5.300E-08	2.863E-08
NE	992	3.244E-07	2.574E-07	2.108E-07	1.768E-07	1.511E-07	8.268E-08	5.404E-08	2.967E-08
ENE	839	2.782E-07	2.201E-07	1.796E-07	1.500E-07	1.277E-07	6.906E-08	4.481E-08	2.439E-08
E	781	1.975E-07	1.557E-07	1.267E-07	1.054E-07	8.951E-08	4.795E-08	3.092E-08	1.666E-08
ESE	562	1.382E-07	1.089E-07	8.854E-08	7.371E-08	6.257E-08	3.352E-08	2.159E-08	1.160E-08
SE	390	9.047E-08	7.095E-08	6.325E-08	5.246E-08	4.439E-08	2.139E-08	1.367E-08	7.253E-09
SSE	262	6.549E-08	5.150E-08	4.183E-08	3.477E-08	2.946E-08	1.572E-08	1.010E-08	5.416E-09
S	295	5.927E-08	4.654E-08	3.777E-08	3.139E-08	2.659E-08	1.417E-08	9.081E-09	4.845E-09
SSW	395	5.641E-08	4.422E-08	3.584E-08	2.977E-08	2.521E-08	1.341E-08	8.573E-09	4.547E-09
SW	325	5.413E-08	4.228E-08	3.417E-08	2.833E-08	2.395E-08	1.268E-08	8.070E-09	4.249E-09
WSW	306	7.210E-08	5.656E-08	5.045E-08	4.191E-08	3.551E-08	1.720E-08	1.102E-08	5.879E-09
W	307	6.395E-08	4.987E-08	4.023E-08	3.327E-08	2.808E-08	1.476E-08	9.342E-09	4.876E-09
WNW	263	8.884E-08	6.955E-08	5.115E-08	4.236E-08	3.580E-08	1.889E-08	1.202E-08	6.343E-09
NW	310	1.160E-07	9.117E-08	7.400E-08	6.147E-08	5.209E-08	2.772E-08	1.776E-08	9.479E-09
NNW	221	9.195E-08	7.232E-08	5.873E-08	4.878E-08	4.134E-08	2.201E-08	1.411E-08	7.531E-09
AVERAGE	8389	1.404E-07	1.107E-07	9.037E-08	7.528E-08	6.394E-08	3.409E-08	2.198E-08	1.183E-08

Pilgrim 2001 General X/Q- Ground Level -- 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)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	760	1.139E-08	8.027E-09	6.061E-09	4.782E-09	3.870E-09	3.226E-09	2.733E-09	
NNE	1381	1.827E-08	1.293E-08	9.796E-09	7.749E-09	6.284E-09	5.244E-09	4.448E-09	
NE	992	1.911E-08	1.361E-08	1.037E-08	8.244E-09	6.712E-09	5.614E-09	4.773E-09	
ENE	839	1.563E-08	1.109E-08	8.420E-09	6.673E-09	5.422E-09	4.533E-09	3.851E-09	
E	781	1.062E-08	7.505E-09	5.681E-09	4.492E-09	3.642E-09	3.042E-09	2.581E-09	
ESE	562	7.393E-09	5.224E-09	3.954E-09	3.126E-09	2.535E-09	2.117E-09	1.798E-09	
SE	390	4.590E-09	3.227E-09	2.432E-09	1.917E-09	1.550E-09	1.293E-09	1.096E-09	
SSE	262	3.451E-09	2.439E-09	1.846E-09	1.460E-09	1.184E-09	9.903E-10	8.415E-10	
S	295	3.083E-09	2.177E-09	1.646E-09	1.301E-09	1.056E-09	8.827E-10	7.502E-10	
SSW	395	2.889E-09	2.039E-09	1.540E-09	1.217E-09	9.875E-10	8.258E-10	7.022E-10	
SW	325	2.688E-09	1.891E-09	1.425E-09	1.124E-09	9.099E-10	7.594E-10	6.447E-10	
WSW	306	3.736E-09	2.636E-09	1.993E-09	1.574E-09	1.276E-09	1.066E-09	9.049E-10	
W	307	3.063E-09	2.143E-09	1.608E-09	1.264E-09	1.020E-09	8.491E-10	7.191E-10	
WNW	263	3.999E-09	2.805E-09	2.110E-09	1.661E-09	1.342E-09	1.118E-09	9.474E-10	
NW	310	6.009E-09	4.230E-09	3.193E-09	2.518E-09	2.038E-09	1.700E-09	1.441E-09	
NNW	221	4.770E-09	3.354E-09	2.529E-09	1.992E-09	1.610E-09	1.341E-09	1.136E-09	
AVERAGE	8389	7.543E-09	5.333E-09	4.038E-09	3.193E-09	2.590E-09	2.163E-09	1.835E-09	

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

Pilgrim 1st Quarter 2001 General X/Q- Ground Level

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	117	5.043E-06	2.167E-06	9.525E-07	5.871E-07	4.140E-07	2.497E-07	1.737E-07	1.312E-07	
NNE	171	5.687E-06	2.422E-06	1.074E-06	6.639E-07	4.693E-07	2.838E-07	1.978E-07	1.496E-07	
NE	160	6.751E-06	2.898E-06	1.278E-06	7.964E-07	5.669E-07	3.466E-07	2.432E-07	1.847E-07	
ENE	273	1.005E-05	4.283E-06	1.901E-06	1.173E-06	8.277E-07	4.994E-07	3.475E-07	2.624E-07	
E	429	1.166E-05	4.896E-06	2.087E-06	1.252E-06	8.776E-07	5.243E-07	3.625E-07	2.725E-07	
ESE	257	7.386E-06	3.083E-06	1.277E-06	7.521E-07	5.249E-07	3.125E-07	2.157E-07	1.619E-07	
SE	124	4.386E-06	1.839E-06	7.848E-07	4.707E-07	3.298E-07	1.970E-07	1.361E-07	1.021E-07	
SSE	66	2.273E-06	9.258E-07	3.636E-07	2.055E-07	1.411E-07	8.232E-08	5.621E-08	4.210E-08	
S	62	2.824E-06	1.178E-06	4.446E-07	2.607E-07	1.801E-07	1.058E-07	7.257E-08	5.449E-08	
SSW	74	2.094E-06	8.781E-07	3.334E-07	1.968E-07	1.369E-07	8.101E-08	5.568E-08	4.166E-08	
SW	76	1.944E-06	8.118E-07	2.997E-07	1.726E-07	1.186E-07	6.901E-08	4.695E-08	3.490E-08	
WSW	57	1.583E-06	6.806E-07	2.690E-07	1.621E-07	1.124E-07	6.634E-08	4.550E-08	3.399E-08	
W	70	2.050E-06	8.743E-07	3.459E-07	2.301E-07	1.605E-07	9.517E-08	5.953E-08	4.456E-08	
WNW	39	1.569E-06	6.686E-07	2.963E-07	1.819E-07	1.280E-07	7.683E-08	5.860E-08	4.410E-08	
NW	75	3.927E-06	1.676E-06	7.545E-07	4.664E-07	3.286E-07	1.974E-07	1.370E-07	1.032E-07	
NNW	45	2.609E-06	1.113E-06	4.984E-07	3.090E-07	2.187E-07	1.323E-07	9.221E-08	6.966E-08	
AVERAGE	2095	4.490E-06	1.900E-06	8.100E-07	4.925E-07	3.459E-07	2.075E-07	1.438E-07	1.083E-07	

Pilgrim 1st Quarter 2001 General X/Q- Ground Level

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	117	1.045E-07	8.608E-08	7.278E-08	6.266E-08	5.483E-08	3.310E-08	2.314E-08	1.391E-08	
NNE	171	1.194E-07	9.848E-08	8.331E-08	7.172E-08	6.274E-08	3.782E-08	2.644E-08	1.594E-08	
NE	160	1.479E-07	1.224E-07	1.039E-07	8.976E-08	7.878E-08	4.807E-08	3.391E-08	2.070E-08	
ENE	273	2.091E-07	1.723E-07	1.457E-07	1.253E-07	1.095E-07	6.584E-08	4.596E-08	2.765E-08	
E	429	2.160E-07	1.773E-07	1.494E-07	1.282E-07	1.118E-07	6.666E-08	4.617E-08	2.741E-08	
ESE	257	1.279E-07	1.048E-07	8.812E-08	7.553E-08	6.583E-08	3.918E-08	2.702E-08	1.589E-08	
SE	124	8.088E-08	6.633E-08	6.142E-08	5.265E-08	4.589E-08	2.481E-08	1.715E-08	1.017E-08	
SSE	66	3.331E-08	2.731E-08	2.298E-08	1.970E-08	1.718E-08	1.022E-08	7.076E-09	4.204E-09	
S	62	4.319E-08	3.545E-08	2.986E-08	2.562E-08	2.234E-08	1.333E-08	9.227E-09	5.471E-09	
SSW	74	3.286E-08	2.687E-08	2.256E-08	1.931E-08	1.681E-08	9.956E-09	6.844E-09	4.003E-09	
SW	76	2.734E-08	2.222E-08	1.857E-08	1.584E-08	1.374E-08	8.050E-09	5.469E-09	3.127E-09	
WSW	57	2.676E-08	2.184E-08	2.015E-08	1.724E-08	1.499E-08	8.049E-09	5.525E-09	3.230E-09	
W	70	3.518E-08	2.878E-08	2.417E-08	2.069E-08	1.801E-08	1.066E-08	7.332E-09	4.297E-09	
WNW	39	3.499E-08	2.874E-08	2.202E-08	1.889E-08	1.648E-08	9.825E-09	6.803E-09	4.034E-09	
NW	75	8.196E-08	6.736E-08	5.679E-08	4.873E-08	4.250E-08	2.533E-08	1.755E-08	1.042E-08	
NNW	45	5.550E-08	4.573E-08	3.865E-08	3.323E-08	2.904E-08	1.744E-08	1.216E-08	7.290E-09	
AVERAGE	2095	8.604E-08	7.075E-08	6.002E-08	5.156E-08	4.503E-08	2.677E-08	1.861E-08	1.111E-08	

Pilgrim 1st Quarter 2001 General X/Q- Ground Level

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)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	117	9.726E-09	7.391E-09	5.935E-09	4.935E-09	4.187E-09	3.633E-09	3.195E-09		
NNE	171	1.116E-08	8.481E-09	6.810E-09	5.663E-09	4.807E-09	4.176E-09	3.675E-09		
NE	160	1.460E-08	1.116E-08	9.007E-09	7.518E-09	6.401E-09	5.568E-09	4.908E-09		
ENE	273	1.933E-08	1.468E-08	1.179E-08	9.800E-09	8.318E-09	7.225E-09	6.359E-09		
E	429	1.902E-08	1.438E-08	1.150E-08	9.532E-09	8.069E-09	6.995E-09	6.145E-09		
ESE	257	1.098E-08	8.268E-09	6.595E-09	5.455E-09	4.609E-09	3.987E-09	3.497E-09		
SE	124	7.050E-09	5.325E-09	4.259E-09	3.531E-09	2.990E-09	2.592E-09	2.278E-09		
SSE	66	2.924E-09	2.214E-09	1.776E-09	1.476E-09	1.253E-09	1.088E-09	9.583E-10		
S	62	3.797E-09	2.870E-09	2.295E-09	1.902E-09	1.611E-09	1.396E-09	1.227E-09		
SSW	74	2.756E-09	2.071E-09	1.649E-09	1.362E-09	1.150E-09	9.935E-10	8.705E-10		
SW	76	2.125E-09	1.582E-09	1.250E-09	1.027E-09	8.615E-10	7.410E-10	6.465E-10		
WSW	57	2.225E-09	1.672E-09	1.334E-09	1.104E-09	9.325E-10	8.069E-10	7.078E-10		
W	70	2.960E-09	2.225E-09	1.772E-09	1.464E-09	1.235E-09	1.068E-09	9.357E-10		
WNW	39	2.796E-09	2.111E-09	1.686E-09	1.395E-09	1.180E-09	1.022E-09	8.969E-10		
NW	75	7.228E-09	5.458E-09	4.359E-09	3.610E-09	3.053E-09	2.645E-09	2.323E-09		
NNW	45	5.085E-09	3.856E-09	3.090E-09	2.565E-09	2.174E-09	1.886E-09	1.659E-09		
AVERAGE	2095	7.734E-09	5.859E-09	4.694E-09	3.896E-09	3.302E-09	2.864E-09	2.518E-09		

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

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level

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	222	6.903E-06	2.933E-06	1.261E-06	7.595E-07	5.318E-07	3.188E-07	2.212E-07	1.667E-07	
NNE	296	7.614E-06	3.258E-06	1.415E-06	8.662E-07	6.122E-07	3.719E-07	2.602E-07	1.973E-07	
NE	221	7.219E-06	3.122E-06	1.340E-06	8.248E-07	5.856E-07	3.634E-07	2.586E-07	1.990E-07	
ENE	114	4.624E-06	1.980E-06	8.518E-07	5.218E-07	3.698E-07	2.275E-07	1.609E-07	1.231E-07	
E	121	5.499E-06	2.315E-06	1.002E-06	6.116E-07	4.334E-07	2.640E-07	1.851E-07	1.407E-07	
ESE	102	3.758E-06	1.562E-06	6.433E-07	3.825E-07	2.705E-07	1.652E-07	1.162E-07	8.862E-08	
SE	68	2.572E-06	1.082E-06	5.053E-07	3.041E-07	2.140E-07	1.289E-07	8.149E-08	6.154E-08	
SSE	76	3.521E-06	1.493E-06	6.364E-07	3.487E-07	2.454E-07	1.476E-07	1.025E-07	7.720E-08	
S	111	3.954E-06	1.589E-06	5.045E-07	2.805E-07	1.960E-07	1.170E-07	8.096E-08	6.091E-08	
SSW	145	3.847E-06	1.557E-06	5.344E-07	2.925E-07	2.013E-07	1.176E-07	8.021E-08	5.978E-08	
SW	86	3.105E-06	1.274E-06	4.555E-07	2.587E-07	1.804E-07	1.073E-07	7.392E-08	5.536E-08	
WSW	104	4.091E-06	1.695E-06	6.215E-07	3.611E-07	2.529E-07	1.519E-07	1.056E-07	7.974E-08	
W	138	4.887E-06	2.025E-06	7.424E-07	4.693E-07	3.256E-07	1.923E-07	1.201E-07	8.985E-08	
WNW	130	4.997E-06	2.126E-06	9.161E-07	5.506E-07	3.843E-07	2.283E-07	1.731E-07	1.298E-07	
NW	96	4.493E-06	1.921E-06	8.397E-07	5.147E-07	3.634E-07	2.196E-07	1.530E-07	1.156E-07	
NNW	60	2.940E-06	1.260E-06	5.583E-07	3.429E-07	2.415E-07	1.452E-07	1.008E-07	7.594E-08	
AVERAGE	2090	4.626E-06	1.950E-06	8.017E-07	4.806E-07	3.380E-07	2.041E-07	1.421E-07	1.076E-07	

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	222	1.323E-07	1.088E-07	9.177E-08	7.887E-08	6.890E-08	4.133E-08	2.873E-08	1.712E-08	
NNE	296	1.574E-07	1.300E-07	1.102E-07	9.506E-08	8.334E-08	5.065E-08	3.557E-08	2.155E-08	
NE	221	1.607E-07	1.341E-07	1.147E-07	9.988E-08	8.829E-08	5.520E-08	3.963E-08	2.484E-08	
ENE	114	9.905E-08	8.237E-08	7.021E-08	6.093E-08	5.369E-08	3.321E-08	2.365E-08	1.466E-08	
E	121	1.128E-07	9.341E-08	7.930E-08	6.849E-08	6.009E-08	3.660E-08	2.580E-08	1.576E-08	
ESE	102	7.119E-08	5.912E-08	5.032E-08	4.358E-08	3.834E-08	2.358E-08	1.674E-08	1.033E-08	
SE	68	4.903E-08	4.042E-08	3.761E-08	3.238E-08	2.834E-08	1.711E-08	1.197E-08	7.231E-09	
SSE	76	6.126E-08	5.035E-08	4.248E-08	3.651E-08	3.191E-08	1.917E-08	1.333E-08	7.935E-09	
S	111	4.830E-08	3.967E-08	3.346E-08	2.874E-08	2.511E-08	1.505E-08	1.046E-08	6.242E-09	
SSW	145	4.694E-08	3.826E-08	3.205E-08	2.740E-08	2.383E-08	1.407E-08	9.632E-09	5.589E-09	
SW	86	4.366E-08	3.570E-08	2.999E-08	2.570E-08	2.239E-08	1.332E-08	9.171E-09	5.373E-09	
WSW	104	6.341E-08	5.222E-08	4.856E-08	4.182E-08	3.661E-08	2.012E-08	1.407E-08	8.471E-09	
W	138	7.081E-08	5.786E-08	4.858E-08	4.158E-08	3.620E-08	2.145E-08	1.473E-08	8.588E-09	
WNW	130	1.026E-07	8.399E-08	6.420E-08	5.501E-08	4.793E-08	2.847E-08	1.962E-08	1.152E-08	
NW	96	9.197E-08	7.576E-08	6.403E-08	5.511E-08	4.821E-08	2.908E-08	2.029E-08	1.215E-08	
NNW	60	6.025E-08	4.950E-08	4.173E-08	3.583E-08	3.128E-08	1.871E-08	1.297E-08	7.689E-09	
AVERAGE	2090	8.573E-08	7.072E-08	5.995E-08	5.168E-08	4.528E-08	2.732E-08	1.915E-08	1.157E-08	

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level

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)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	222	1.192E-08	9.034E-09	7.241E-09	6.013E-09	5.099E-09	4.425E-09	3.892E-09		
NNE	296	1.515E-08	1.156E-08	9.312E-09	7.765E-09	6.606E-09	5.745E-09	5.063E-09		
NE	221	1.783E-08	1.382E-08	1.127E-08	9.491E-09	8.145E-09	7.128E-09	6.322E-09		
ENE	114	1.045E-08	8.055E-09	6.540E-09	5.489E-09	4.697E-09	4.103E-09	3.632E-09		
E	121	1.112E-08	8.510E-09	6.867E-09	5.734E-09	4.885E-09	4.256E-09	3.756E-09		
ESE	102	7.343E-09	5.650E-09	4.580E-09	3.840E-09	3.283E-09	2.866E-09	2.536E-09		
SE	68	5.074E-09	3.866E-09	3.113E-09	2.595E-09	2.208E-09	1.920E-09	1.693E-09		
SSE	76	5.522E-09	4.182E-09	3.350E-09	2.780E-09	2.355E-09	2.041E-09	1.793E-09		
S	111	4.355E-09	3.305E-09	2.654E-09	2.208E-09	1.875E-09	1.630E-09	1.435E-09		
SSW	145	3.840E-09	2.882E-09	2.297E-09	1.899E-09	1.604E-09	1.387E-09	1.216E-09		
SW	86	3.708E-09	2.791E-09	2.228E-09	1.843E-09	1.557E-09	1.347E-09	1.181E-09		
WSW	104	5.941E-09	4.527E-09	3.646E-09	3.040E-09	2.587E-09	2.250E-09	1.983E-09		
W	138	5.907E-09	4.435E-09	3.530E-09	2.914E-09	2.459E-09	2.124E-09	1.861E-09		
WNW	130	7.947E-09	5.978E-09	4.764E-09	3.937E-09	3.324E-09	2.874E-09	2.519E-09		
NW	96	8.483E-09	6.437E-09	5.161E-09	4.286E-09	3.633E-09	3.150E-09	2.769E-09		
NNW	60	5.332E-09	4.027E-09	3.217E-09	2.663E-09	2.252E-09	1.950E-09	1.711E-09		
AVERAGE	2090	8.120E-09	6.191E-09	4.985E-09	4.156E-09	3.536E-09	3.075E-09	2.710E-09		

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

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level

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	245	1.112E-05	4.710E-06	2.016E-06	1.221E-06	8.570E-07	5.130E-07	3.547E-07	2.663E-07
NNE	536	1.952E-05	8.237E-06	3.469E-06	2.096E-06	1.478E-06	8.933E-07	6.222E-07	4.700E-07
NE	330	1.394E-05	5.947E-06	2.518E-06	1.534E-06	1.085E-06	6.649E-07	4.679E-07	3.564E-07
ENE	144	8.448E-06	3.604E-06	1.539E-06	9.423E-07	6.683E-07	4.097E-07	2.882E-07	2.193E-07
E	65	4.609E-06	1.958E-06	8.455E-07	5.167E-07	3.645E-07	2.209E-07	1.543E-07	1.169E-07
ESE	70	4.588E-06	1.926E-06	8.251E-07	4.968E-07	3.474E-07	2.067E-07	1.424E-07	1.067E-07
SE	62	4.214E-06	1.767E-06	8.306E-07	5.015E-07	3.524E-07	2.110E-07	1.326E-07	9.951E-08
SSE	71	4.905E-06	1.998E-06	8.152E-07	4.358E-07	3.058E-07	1.829E-07	1.264E-07	9.490E-08
S	75	4.864E-06	1.993E-06	6.682E-07	3.875E-07	2.688E-07	1.584E-07	1.086E-07	8.120E-08
SSW	114	4.662E-06	1.835E-06	6.126E-07	3.338E-07	2.288E-07	1.331E-07	9.077E-08	6.782E-08
SW	120	5.804E-06	2.370E-06	8.428E-07	4.771E-07	3.270E-07	1.894E-07	1.284E-07	9.513E-08
WSW	105	6.827E-06	2.856E-06	1.089E-06	6.464E-07	4.491E-07	2.648E-07	1.814E-07	1.355E-07
W	64	3.917E-06	1.662E-06	6.422E-07	4.193E-07	2.889E-07	1.682E-07	1.038E-07	7.698E-08
WNW	57	3.736E-06	1.589E-06	6.930E-07	4.205E-07	2.941E-07	1.756E-07	1.335E-07	1.001E-07
NW	74	4.676E-06	1.978E-06	8.624E-07	5.227E-07	3.651E-07	2.166E-07	1.490E-07	1.116E-07
NNW	44	3.293E-06	1.411E-06	6.310E-07	3.889E-07	2.732E-07	1.633E-07	1.127E-07	8.454E-08
AVERAGE	2176	6.820E-06	2.865E-06	1.181E-06	7.087E-07	4.971E-07	2.982E-07	2.061E-07	1.552E-07

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	245	2.109E-07	1.730E-07	1.457E-07	1.249E-07	1.090E-07	6.501E-08	4.505E-08	2.676E-08
NNE	536	3.741E-07	3.083E-07	2.607E-07	2.245E-07	1.965E-07	1.188E-07	8.317E-08	5.021E-08
NE	330	2.856E-07	2.367E-07	2.012E-07	1.742E-07	1.532E-07	9.406E-08	6.665E-08	4.100E-08
ENE	144	1.757E-07	1.456E-07	1.237E-07	1.070E-07	9.407E-08	5.764E-08	4.080E-08	2.506E-08
E	65	9.333E-08	7.709E-08	6.529E-08	5.629E-08	4.931E-08	2.987E-08	2.098E-08	1.274E-08
ESE	70	8.449E-08	6.926E-08	5.826E-08	4.989E-08	4.344E-08	2.575E-08	1.778E-08	1.053E-08
SE	62	7.880E-08	6.462E-08	5.982E-08	5.126E-08	4.466E-08	2.655E-08	1.835E-08	1.087E-08
SSE	71	7.524E-08	6.175E-08	5.200E-08	4.457E-08	3.883E-08	2.308E-08	1.598E-08	9.509E-09
S	75	6.407E-08	5.238E-08	4.399E-08	3.763E-08	3.274E-08	1.937E-08	1.333E-08	7.834E-09
SSW	114	5.348E-08	4.371E-08	3.669E-08	3.139E-08	2.731E-08	1.617E-08	1.112E-08	6.531E-09
SW	120	7.437E-08	6.037E-08	5.039E-08	4.292E-08	3.720E-08	2.172E-08	1.476E-08	8.479E-09
WSW	105	1.068E-07	8.726E-08	8.054E-08	6.885E-08	5.986E-08	3.210E-08	2.206E-08	1.295E-08
W	64	6.024E-08	4.892E-08	4.083E-08	3.476E-08	3.011E-08	1.753E-08	1.190E-08	6.837E-09
WNW	57	7.917E-08	6.485E-08	4.958E-08	4.246E-08	3.698E-08	2.193E-08	1.515E-08	8.975E-09
NW	74	8.818E-08	7.218E-08	6.063E-08	5.185E-08	4.510E-08	2.662E-08	1.831E-08	1.077E-08
NNW	44	6.690E-08	5.481E-08	4.608E-08	3.944E-08	3.433E-08	2.032E-08	1.401E-08	8.258E-09
AVERAGE	2176	1.232E-07	1.013E-07	8.596E-08	7.388E-08	6.454E-08	3.853E-08	2.684E-08	1.608E-08

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level

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)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	245	1.858E-08	1.405E-08	1.124E-08	9.317E-09	7.886E-09	6.831E-09	5.998E-09
NNE	536	3.521E-08	2.682E-08	2.159E-08	1.798E-08	1.529E-08	1.328E-08	1.169E-08
NE	330	2.908E-08	2.234E-08	1.810E-08	1.516E-08	1.295E-08	1.129E-08	9.971E-09
ENE	144	1.776E-08	1.363E-08	1.103E-08	9.232E-09	7.880E-09	6.866E-09	6.064E-09
E	65	8.962E-09	6.841E-09	5.513E-09	4.599E-09	3.913E-09	3.405E-09	3.001E-09
ESE	70	7.292E-09	5.502E-09	4.395E-09	3.640E-09	3.079E-09	2.667E-09	2.342E-09
SE	62	7.531E-09	5.684E-09	4.541E-09	3.760E-09	3.179E-09	2.753E-09	2.416E-09
SSE	71	6.604E-09	4.995E-09	3.997E-09	3.316E-09	2.809E-09	2.437E-09	2.143E-09
S	75	5.407E-09	4.072E-09	3.248E-09	2.686E-09	2.269E-09	1.964E-09	1.723E-09
SSW	114	4.512E-09	3.402E-09	2.715E-09	2.248E-09	1.901E-09	1.647E-09	1.447E-09
SW	120	5.784E-09	4.319E-09	3.426E-09	2.821E-09	2.374E-09	2.047E-09	1.791E-09
WSW	105	8.927E-09	6.716E-09	5.355E-09	4.428E-09	3.740E-09	3.236E-09	2.838E-09
W	64	4.657E-09	3.472E-09	2.751E-09	2.263E-09	1.902E-09	1.640E-09	1.433E-09
WNW	57	6.222E-09	4.701E-09	3.761E-09	3.119E-09	2.642E-09	2.292E-09	2.015E-09
NW	74	7.429E-09	5.588E-09	4.451E-09	3.678E-09	3.105E-09	2.686E-09	2.356E-09
NNW	44	5.701E-09	4.291E-09	3.419E-09	2.826E-09	2.386E-09	2.064E-09	1.809E-09
AVERAGE	2176	1.123E-08	8.526E-09	6.845E-09	5.692E-09	4.831E-09	4.194E-09	3.690E-09

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

Pilgrim 4th Quarter 2001 General X/Q- Ground Level

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	176	1.146E-05	4.910E-06	2.166E-06	1.333E-06	9.383E-07	5.629E-07	3.897E-07	2.929E-07
NNE	378	1.809E-05	7.756E-06	3.377E-06	2.067E-06	1.453E-06	8.722E-07	6.043E-07	4.546E-07
NE	281	1.520E-05	6.510E-06	2.814E-06	1.718E-06	1.207E-06	7.276E-07	5.059E-07	3.817E-07
ENE	308	1.723E-05	7.339E-06	3.196E-06	1.947E-06	1.362E-06	8.145E-07	5.644E-07	4.259E-07
E	166	9.614E-06	4.064E-06	1.733E-06	1.046E-06	7.318E-07	4.365E-07	3.013E-07	2.266E-07
ESE	133	7.740E-06	3.269E-06	1.401E-06	8.484E-07	5.955E-07	3.563E-07	2.462E-07	1.849E-07
SE	136	5.128E-06	2.144E-06	8.944E-07	5.274E-07	3.659E-07	2.147E-07	1.466E-07	1.088E-07
SSE	49	2.679E-06	1.090E-06	4.286E-07	2.431E-07	1.663E-07	9.625E-08	6.518E-08	4.838E-08
S	47	2.644E-06	1.100E-06	4.085E-07	2.374E-07	1.636E-07	9.516E-08	6.451E-08	4.769E-08
SSW	62	3.795E-06	1.580E-06	5.986E-07	3.531E-07	2.452E-07	1.443E-07	9.865E-08	7.342E-08
SW	43	2.462E-06	1.048E-06	4.094E-07	2.444E-07	1.686E-07	9.822E-08	6.665E-08	4.935E-08
WSW	40	2.426E-06	1.023E-06	3.812E-07	2.200E-07	1.495E-07	8.531E-08	5.719E-08	4.201E-08
W	35	2.800E-06	1.210E-06	4.875E-07	3.264E-07	2.273E-07	1.338E-07	8.304E-08	6.154E-08
WNN	37	3.134E-06	1.346E-06	6.033E-07	3.704E-07	2.592E-07	1.539E-07	1.162E-07	8.669E-08
NW	65	4.808E-06	2.069E-06	9.040E-07	5.513E-07	3.862E-07	2.323E-07	1.615E-07	1.217E-07
NNW	72	4.929E-06	2.113E-06	9.352E-07	5.813E-07	4.123E-07	2.503E-07	1.747E-07	1.322E-07
AVERAGE	2028	7.134E-06	3.036E-06	1.296E-06	7.884E-07	5.520E-07	3.296E-07	2.279E-07	1.711E-07

Pilgrim 4th Quarter 2001 General X/Q- Ground Level

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)							
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	176	2.322E-07	1.906E-07	1.605E-07	1.377E-07	1.201E-07	7.165E-08	4.966E-08	2.951E-08
NNE	378	3.606E-07	2.963E-07	2.498E-07	2.146E-07	1.874E-07	1.123E-07	7.811E-08	4.667E-08
NE	281	3.034E-07	2.498E-07	2.110E-07	1.816E-07	1.588E-07	9.574E-08	6.689E-08	4.025E-08
ENE	308	3.392E-07	2.795E-07	2.362E-07	2.032E-07	1.776E-07	1.068E-07	7.457E-08	4.494E-08
E	166	1.800E-07	1.480E-07	1.248E-07	1.072E-07	9.363E-08	5.609E-08	3.906E-08	2.343E-08
ESE	133	1.466E-07	1.203E-07	1.014E-07	8.697E-08	7.586E-08	4.527E-08	3.142E-08	1.874E-08
SE	136	8.515E-08	6.915E-08	6.349E-08	5.405E-08	4.682E-08	2.480E-08	1.681E-08	9.605E-09
SSE	49	3.798E-08	3.093E-08	2.588E-08	2.207E-08	1.915E-08	1.122E-08	7.676E-09	4.488E-09
S	47	3.720E-08	3.013E-08	2.510E-08	2.134E-08	1.846E-08	1.070E-08	7.235E-09	4.125E-09
SSW	62	5.763E-08	4.691E-08	3.923E-08	3.345E-08	2.901E-08	1.697E-08	1.156E-08	6.669E-09
SW	43	3.861E-08	3.135E-08	2.616E-08	2.226E-08	1.927E-08	1.120E-08	7.602E-09	4.381E-09
WSW	40	3.254E-08	2.621E-08	2.391E-08	2.025E-08	1.747E-08	9.119E-09	6.096E-09	3.398E-09
W	35	4.804E-08	3.893E-08	3.244E-08	2.757E-08	2.385E-08	1.382E-08	9.318E-09	5.273E-09
WNN	37	6.820E-08	5.561E-08	4.233E-08	3.611E-08	3.133E-08	1.834E-08	1.252E-08	7.255E-09
NW	65	9.660E-08	7.941E-08	6.700E-08	5.760E-08	5.033E-08	3.022E-08	2.105E-08	1.263E-08
NNW	72	1.055E-07	8.710E-08	7.373E-08	6.351E-08	5.560E-08	3.360E-08	2.356E-08	1.426E-08
AVERAGE	2028	1.356E-07	1.113E-07	9.394E-08	8.059E-08	7.029E-08	4.174E-08	2.895E-08	1.723E-08

Pilgrim 4th Quarter 2001 General X/Q- Ground Level

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)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	176	2.048E-08	1.547E-08	1.237E-08	1.025E-08	8.670E-09	7.506E-09	6.587E-09
NNE	378	3.251E-08	2.464E-08	1.975E-08	1.640E-08	1.390E-08	1.205E-08	1.059E-08
NE	281	2.818E-08	2.144E-08	1.724E-08	1.435E-08	1.219E-08	1.059E-08	9.320E-09
ENE	308	3.145E-08	2.392E-08	1.922E-08	1.600E-08	1.359E-08	1.181E-08	1.040E-08
E	166	1.635E-08	1.241E-08	9.963E-09	8.283E-09	7.028E-09	6.100E-09	5.366E-09
ESE	133	1.304E-08	9.870E-09	7.908E-09	6.564E-09	5.562E-09	4.823E-09	4.238E-09
SE	136	6.520E-09	4.848E-09	3.828E-09	3.139E-09	2.632E-09	2.264E-09	1.974E-09
SSE	49	3.091E-09	2.325E-09	1.856E-09	1.538E-09	1.301E-09	1.128E-09	9.910E-10
S	47	2.799E-09	2.081E-09	1.646E-09	1.352E-09	1.136E-09	9.779E-10	8.539E-10
SSW	62	4.552E-09	3.399E-09	2.693E-09	2.215E-09	1.862E-09	1.605E-09	1.403E-09
SW	43	2.988E-09	2.230E-09	1.770E-09	1.458E-09	1.227E-09	1.060E-09	9.272E-10
WSW	40	2.276E-09	1.676E-09	1.316E-09	1.074E-09	8.970E-10	7.681E-10	6.676E-10
W	35	3.556E-09	2.630E-09	2.068E-09	1.689E-09	1.412E-09	1.210E-09	1.052E-09
WNN	37	4.958E-09	3.705E-09	2.936E-09	2.415E-09	2.031E-09	1.751E-09	1.531E-09
NW	65	8.828E-09	6.712E-09	5.395E-09	4.492E-09	3.817E-09	3.317E-09	2.922E-09
NNW	72	1.000E-08	7.615E-09	6.123E-09	5.096E-09	4.328E-09	3.758E-09	3.307E-09
AVERAGE	2028	1.197E-08	9.061E-09	7.256E-09	6.020E-09	5.099E-09	4.420E-09	3.883E-09

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

Pilgrim 2001 General X/Q- Ground Level

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	760	7.394E-06	3.157E-06	1.376E-06	8.406E-07	5.924E-07	3.573E-07	2.488E-07	1.880E-07	
NNE	1381	1.074E-05	4.580E-06	1.981E-06	1.211E-06	8.561E-07	5.197E-07	3.634E-07	2.754E-07	
NE	992	9.177E-06	3.939E-06	1.700E-06	1.045E-06	7.407E-07	4.544E-07	3.203E-07	2.444E-07	
ENE	839	8.540E-06	3.646E-06	1.593E-06	9.777E-07	6.904E-07	4.195E-07	2.938E-07	2.233E-07	
E	781	6.870E-06	2.902E-06	1.247E-06	7.557E-07	5.322E-07	3.210E-07	2.235E-07	1.691E-07	
ESE	562	5.083E-06	2.135E-06	9.019E-07	5.399E-07	3.795E-07	2.285E-07	1.589E-07	1.201E-07	
SE	390	3.514E-06	1.479E-06	6.294E-07	3.772E-07	2.648E-07	1.587E-07	1.100E-07	8.278E-08	
SSE	262	2.766E-06	1.146E-06	4.698E-07	2.748E-07	1.920E-07	1.145E-07	7.917E-08	5.959E-08	
S	295	2.992E-06	1.232E-06	4.504E-07	2.593E-07	1.804E-07	1.069E-07	7.370E-08	5.537E-08	
SSW	395	3.144E-06	1.285E-06	4.589E-07	2.592E-07	1.796E-07	1.058E-07	7.269E-08	5.448E-08	
SW	325	2.902E-06	1.205E-06	4.419E-07	2.541E-07	1.759E-07	1.035E-07	7.088E-08	5.296E-08	
WSW	306	3.269E-06	1.374E-06	5.210E-07	3.075E-07	2.141E-07	1.272E-07	8.772E-08	6.588E-08	
W	307	3.044E-06	1.287E-06	4.949E-07	3.228E-07	2.246E-07	1.329E-07	8.301E-08	6.209E-08	
WNN	263	2.988E-06	1.275E-06	5.591E-07	3.400E-07	2.384E-07	1.427E-07	1.087E-07	8.169E-08	
NW	310	3.922E-06	1.677E-06	7.397E-07	4.536E-07	3.195E-07	1.926E-07	1.341E-07	1.013E-07	
NNW	221	2.965E-06	1.271E-06	5.667E-07	3.512E-07	2.486E-07	1.506E-07	1.051E-07	7.955E-08	
AVERAGE	8389	4.957E-06	2.099E-06	8.832E-07	5.356E-07	3.768E-07	2.272E-07	1.584E-07	1.198E-07	

Pilgrim 2001 General X/Q- Ground Level

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)								
		3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00	
N	760	1.496E-07	1.232E-07	1.042E-07	8.968E-08	7.845E-08	4.732E-08	3.304E-08	1.983E-08	
NNE	1381	2.199E-07	1.817E-07	1.539E-07	1.328E-07	1.164E-07	7.077E-08	4.972E-08	3.014E-08	
NE	992	1.962E-07	1.628E-07	1.386E-07	1.201E-07	1.057E-07	6.507E-08	4.619E-08	2.846E-08	
ENE	839	1.789E-07	1.481E-07	1.258E-07	1.087E-07	9.539E-08	5.820E-08	4.107E-08	2.510E-08	
E	781	1.349E-07	1.113E-07	9.424E-08	8.120E-08	7.109E-08	4.299E-08	3.011E-08	1.820E-08	
ESE	562	9.560E-08	7.878E-08	6.660E-08	5.734E-08	5.017E-08	3.027E-08	2.115E-08	1.272E-08	
SE	390	6.567E-08	5.394E-08	5.003E-08	4.295E-08	3.749E-08	2.039E-08	1.414E-08	8.405E-09	
SSE	262	4.732E-08	3.890E-08	3.282E-08	2.820E-08	2.463E-08	1.477E-08	1.027E-08	6.137E-09	
S	295	4.386E-08	3.599E-08	3.032E-08	2.602E-08	2.270E-08	1.357E-08	9.401E-09	5.575E-09	
SSW	395	4.303E-08	3.523E-08	2.962E-08	2.538E-08	2.212E-08	1.316E-08	9.077E-09	5.332E-09	
SW	325	4.170E-08	3.405E-08	2.857E-08	2.445E-08	2.127E-08	1.259E-08	8.643E-09	5.038E-09	
WSW	306	5.214E-08	4.277E-08	3.962E-08	3.400E-08	2.967E-08	1.611E-08	1.116E-08	6.616E-09	
W	307	4.893E-08	3.998E-08	3.355E-08	2.871E-08	2.498E-08	1.477E-08	1.014E-08	5.904E-09	
WNN	263	6.472E-08	5.311E-08	4.066E-08	3.488E-08	3.042E-08	1.814E-08	1.255E-08	7.422E-09	
NW	310	8.060E-08	6.639E-08	5.609E-08	4.825E-08	4.219E-08	2.538E-08	1.770E-08	1.060E-08	
NNW	221	6.344E-08	5.234E-08	4.428E-08	3.813E-08	3.337E-08	2.014E-08	1.408E-08	8.480E-09	
AVERAGE	8389	9.540E-08	7.867E-08	6.680E-08	5.755E-08	5.038E-08	3.023E-08	2.115E-08	1.275E-08	

Pilgrim 2001 General X/Q- Ground Level

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)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	760	1.386E-08	1.053E-08	8.448E-09	7.023E-09	5.959E-09	5.172E-09	4.550E-09		
NNE	1381	2.120E-08	1.618E-08	1.303E-08	1.087E-08	9.247E-09	8.041E-09	7.087E-09		
NE	992	2.022E-08	1.555E-08	1.260E-08	1.056E-08	9.023E-09	7.871E-09	6.958E-09		
ENE	839	1.774E-08	1.358E-08	1.097E-08	9.169E-09	7.817E-09	6.811E-09	6.014E-09		
E	781	1.277E-08	9.733E-09	7.833E-09	6.526E-09	5.549E-09	4.826E-09	4.253E-09		
ESE	562	8.901E-09	6.769E-09	5.440E-09	4.527E-09	3.845E-09	3.341E-09	2.942E-09		
SE	390	5.840E-09	4.417E-09	3.535E-09	2.931E-09	2.482E-09	2.152E-09	1.891E-09		
SSE	262	4.281E-09	3.247E-09	2.606E-09	2.166E-09	1.839E-09	1.597E-09	1.406E-09		
S	295	3.872E-09	2.929E-09	2.344E-09	1.945E-09	1.648E-09	1.429E-09	1.256E-09		
SSW	395	3.685E-09	2.777E-09	2.216E-09	1.834E-09	1.551E-09	1.342E-09	1.178E-09		
SW	325	3.465E-09	2.602E-09	2.072E-09	1.712E-09	1.445E-09	1.249E-09	1.094E-09		
WSW	306	4.594E-09	3.474E-09	2.782E-09	2.308E-09	1.956E-09	1.696E-09	1.490E-09		
W	307	4.055E-09	3.040E-09	2.417E-09	1.994E-09	1.680E-09	1.451E-09	1.270E-09		
WNN	263	5.141E-09	3.880E-09	3.099E-09	2.566E-09	2.170E-09	1.880E-09	1.650E-09		
NW	310	7.402E-09	5.617E-09	4.505E-09	3.743E-09	3.175E-09	2.756E-09	2.424E-09		
NNW	221	5.933E-09	4.509E-09	3.620E-09	3.009E-09	2.554E-09	2.217E-09	1.951E-09		
AVERAGE	8389	8.934E-09	6.802E-09	5.470E-09	4.555E-09	3.871E-09	3.364E-09	2.963E-09		

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

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	117	9.446E-08	3.177E-08	1.073E-08	5.661E-09	3.503E-09	1.694E-09	1.033E-09	7.042E-10
NNE	171	1.381E-07	4.643E-08	1.568E-08	8.274E-09	5.119E-09	2.476E-09	1.510E-09	1.029E-09
NE	160	1.292E-07	4.344E-08	1.467E-08	7.742E-09	4.790E-09	2.316E-09	1.413E-09	9.630E-10
ENE	273	2.204E-07	7.412E-08	2.503E-08	1.321E-08	8.173E-09	3.952E-09	2.411E-09	1.643E-09
E	429	3.464E-07	1.165E-07	3.934E-08	2.076E-08	1.284E-08	6.210E-09	3.789E-09	2.582E-09
ESE	257	2.075E-07	6.978E-08	2.357E-08	1.243E-08	7.694E-09	3.721E-09	2.270E-09	1.547E-09
SE	124	1.001E-07	3.367E-08	1.137E-08	6.000E-09	3.712E-09	1.795E-09	1.095E-09	7.463E-10
SSE	66	5.329E-08	1.792E-08	6.052E-09	3.193E-09	1.976E-09	9.555E-10	5.829E-10	3.972E-10
S	62	5.506E-08	1.852E-08	5.685E-09	3.000E-09	1.856E-09	8.976E-10	5.476E-10	3.732E-10
SSW	74	6.572E-08	2.210E-08	6.785E-09	3.580E-09	2.215E-09	1.071E-09	6.536E-10	4.454E-10
SW	76	6.750E-08	2.270E-08	6.969E-09	3.677E-09	2.275E-09	1.100E-09	6.712E-10	4.574E-10
WSW	57	5.062E-08	1.702E-08	5.226E-09	2.758E-09	1.706E-09	8.252E-10	5.034E-10	3.431E-10
W	70	6.217E-08	2.091E-08	6.419E-09	3.726E-09	2.305E-09	1.115E-09	6.183E-10	4.213E-10
WNW	39	3.149E-08	1.059E-08	3.576E-09	1.887E-09	1.168E-09	5.646E-10	3.789E-10	2.582E-10
NW	75	6.055E-08	2.036E-08	6.877E-09	3.629E-09	2.245E-09	1.086E-09	6.624E-10	4.514E-10
NNW	45	3.633E-08	1.222E-08	4.126E-09	2.177E-09	1.347E-09	6.515E-10	3.974E-10	2.708E-10
AVERAGE	2095	1.074E-07	3.613E-08	1.201E-08	6.357E-09	3.933E-09	1.902E-09	1.159E-09	7.895E-10

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

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	117	5.153E-10	3.941E-10	3.116E-10	2.504E-10	2.066E-10	1.036E-10	6.370E-11	3.143E-11
NNE	171	7.531E-10	5.760E-10	4.555E-10	3.660E-10	3.020E-10	1.514E-10	9.311E-11	4.594E-11
NE	160	7.046E-10	5.390E-10	4.262E-10	3.425E-10	2.826E-10	1.417E-10	8.712E-11	4.298E-11
ENE	273	1.202E-09	9.196E-10	7.271E-10	5.843E-10	4.821E-10	2.417E-10	1.486E-10	7.334E-11
E	429	1.889E-09	1.445E-09	1.143E-09	9.182E-10	7.576E-10	3.799E-10	2.336E-10	1.152E-10
ESE	257	1.132E-09	8.657E-10	6.845E-10	5.501E-10	4.539E-10	2.276E-10	1.399E-10	6.904E-11
SE	124	5.461E-10	4.177E-10	3.633E-10	2.920E-10	2.409E-10	1.098E-10	6.752E-11	3.331E-11
SSE	66	2.907E-10	2.223E-10	1.758E-10	1.413E-10	1.166E-10	5.844E-11	3.594E-11	1.773E-11
S	62	2.730E-10	2.088E-10	1.651E-10	1.327E-10	1.095E-10	5.490E-11	3.376E-11	1.666E-11
SSW	74	3.259E-10	2.493E-10	1.971E-10	1.584E-10	1.307E-10	6.552E-11	4.029E-11	1.988E-11
SW	76	3.347E-10	2.560E-10	2.024E-10	1.627E-10	1.342E-10	6.729E-11	4.138E-11	2.042E-11
WSW	57	2.510E-10	1.920E-10	1.670E-10	1.342E-10	1.107E-10	5.047E-11	3.104E-11	1.531E-11
W	70	3.083E-10	2.358E-10	1.864E-10	1.498E-10	1.236E-10	6.198E-11	3.811E-11	1.881E-11
WNW	39	1.889E-10	1.445E-10	1.039E-10	8.348E-11	6.887E-11	3.453E-11	2.123E-11	1.048E-11
NW	75	3.303E-10	2.526E-10	1.998E-10	1.605E-10	1.325E-10	6.641E-11	4.084E-11	2.015E-11
NNW	45	1.982E-10	1.516E-10	1.199E-10	9.632E-11	7.947E-11	3.985E-11	2.450E-11	1.209E-11
AVERAGE	2095	5.777E-10	4.419E-10	3.518E-10	2.827E-10	2.332E-10	1.159E-10	7.129E-11	3.518E-11

Pilgrim 1st Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)						
		20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	117	1.932E-11	1.301E-11	9.165E-12	6.872E-12	5.346E-12	4.372E-12	3.630E-12
NNE	171	2.824E-11	1.901E-11	1.339E-11	1.004E-11	7.813E-12	6.389E-12	5.305E-12
NE	160	2.642E-11	1.779E-11	1.253E-11	9.397E-12	7.310E-12	5.978E-12	4.964E-12
ENE	273	4.508E-11	3.035E-11	2.138E-11	1.603E-11	1.247E-11	1.020E-11	8.470E-12
E	429	7.084E-11	4.769E-11	3.360E-11	2.520E-11	1.960E-11	1.603E-11	1.331E-11
ESE	257	4.244E-11	2.857E-11	2.013E-11	1.509E-11	1.174E-11	9.603E-12	7.974E-12
SE	124	2.047E-11	1.378E-11	9.713E-12	7.283E-12	5.665E-12	4.633E-12	3.847E-12
SSE	66	1.090E-11	7.337E-12	5.170E-12	3.876E-12	3.015E-12	2.466E-12	2.048E-12
S	62	1.024E-11	6.892E-12	4.856E-12	3.641E-12	2.833E-12	2.317E-12	1.924E-12
SSW	74	1.222E-11	8.227E-12	5.796E-12	4.346E-12	3.381E-12	2.765E-12	2.296E-12
SW	76	1.255E-11	8.449E-12	5.953E-12	4.464E-12	3.472E-12	2.840E-12	2.358E-12
WSW	57	9.412E-12	6.337E-12	4.465E-12	3.348E-12	2.604E-12	2.130E-12	1.768E-12
W	70	1.156E-11	7.782E-12	5.483E-12	4.111E-12	3.198E-12	2.616E-12	2.172E-12
WNW	39	6.440E-12	4.336E-12	3.055E-12	2.291E-12	1.782E-12	1.457E-12	1.210E-12
NW	75	1.238E-11	8.338E-12	5.875E-12	4.405E-12	3.427E-12	2.802E-12	2.327E-12
NNW	45	7.430E-12	5.003E-12	3.525E-12	2.643E-12	2.056E-12	1.681E-12	1.396E-12
AVERAGE	2095	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 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	222	1.797E-07	6.042E-08	2.040E-08	1.077E-08	6.662E-09	3.222E-09	1.965E-09	1.339E-09
NNE	296	2.396E-07	8.056E-08	2.721E-08	1.436E-08	8.882E-09	4.295E-09	2.621E-09	1.786E-09
NE	221	1.789E-07	6.015E-08	2.031E-08	1.072E-08	6.632E-09	3.207E-09	1.957E-09	1.333E-09
ENE	114	9.226E-08	3.103E-08	1.048E-08	5.529E-09	3.421E-09	1.654E-09	1.009E-09	6.878E-10
E	121	9.793E-08	3.293E-08	1.112E-08	5.869E-09	3.631E-09	1.756E-09	1.071E-09	7.300E-10
ESE	102	8.255E-08	2.776E-08	9.375E-09	4.947E-09	3.061E-09	1.480E-09	9.030E-10	6.154E-10
SE	68	5.503E-08	1.851E-08	6.875E-09	3.628E-09	2.245E-09	1.085E-09	6.020E-10	4.102E-10
SSE	76	6.766E-08	2.275E-08	7.684E-09	3.686E-09	2.281E-09	1.103E-09	6.729E-10	4.585E-10
S	111	1.078E-07	3.625E-08	1.020E-08	5.384E-09	3.331E-09	1.611E-09	9.827E-10	6.697E-10
SSW	145	1.291E-07	4.341E-08	1.333E-08	7.033E-09	4.351E-09	2.104E-09	1.284E-09	8.748E-10
SW	86	7.656E-08	2.575E-08	7.904E-09	4.171E-09	2.581E-09	1.248E-09	7.614E-10	5.188E-10
WSW	104	9.259E-08	3.114E-08	9.559E-09	5.044E-09	3.121E-09	1.509E-09	9.207E-10	6.274E-10
W	138	1.229E-07	4.131E-08	1.268E-08	7.362E-09	4.555E-09	2.203E-09	1.222E-09	8.326E-10
WNW	130	1.052E-07	3.538E-08	1.195E-08	6.305E-09	3.901E-09	1.886E-09	1.266E-09	8.627E-10
NW	96	7.769E-08	2.613E-08	8.824E-09	4.656E-09	2.881E-09	1.393E-09	8.499E-10	5.792E-10
NNW	60	4.856E-08	1.633E-08	5.515E-09	2.910E-09	1.800E-09	8.707E-10	5.312E-10	3.620E-10
AVERAGE	2090	1.096E-07	3.686E-08	1.209E-08	6.398E-09	3.958E-09	1.914E-09	1.164E-09	7.930E-10

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

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	222	9.800E-10	7.496E-10	5.927E-10	4.763E-10	3.930E-10	1.970E-10	1.212E-10	5.978E-11
NNE	296	1.307E-09	9.995E-10	7.903E-10	6.351E-10	5.240E-10	2.627E-10	1.616E-10	7.971E-11
NE	221	9.756E-10	7.462E-10	5.901E-10	4.742E-10	3.912E-10	1.962E-10	1.206E-10	5.951E-11
ENE	114	5.033E-10	3.849E-10	3.044E-10	2.446E-10	2.018E-10	1.012E-10	6.222E-11	3.070E-11
E	121	5.342E-10	4.086E-10	3.231E-10	2.596E-10	2.142E-10	1.074E-10	6.604E-11	3.258E-11
ESE	102	4.503E-10	3.444E-10	2.723E-10	2.188E-10	1.806E-10	9.053E-11	5.567E-11	2.747E-11
SE	68	3.002E-10	2.296E-10	1.997E-10	1.605E-10	1.324E-10	6.639E-11	4.082E-11	2.014E-11
SSE	76	3.355E-10	2.566E-10	2.029E-10	1.631E-10	1.345E-10	6.746E-11	4.148E-11	2.047E-11
S	111	4.900E-10	3.748E-10	2.964E-10	2.382E-10	1.965E-10	9.852E-11	6.058E-11	2.989E-11
SSW	145	6.401E-10	4.896E-10	3.871E-10	3.111E-10	2.567E-10	1.287E-10	7.914E-11	3.905E-11
SW	86	3.796E-10	2.904E-10	2.296E-10	1.845E-10	1.522E-10	7.633E-11	4.694E-11	2.316E-11
WSW	104	4.591E-10	3.512E-10	3.054E-10	2.455E-10	2.025E-10	9.231E-11	5.676E-11	2.801E-11
W	138	6.092E-10	4.660E-10	3.684E-10	2.961E-10	2.443E-10	1.225E-10	7.532E-11	3.716E-11
WNW	130	6.313E-10	4.829E-10	3.471E-10	2.789E-10	2.301E-10	1.154E-10	7.095E-11	3.501E-11
NW	96	4.238E-10	3.242E-10	2.563E-10	2.060E-10	1.699E-10	8.521E-11	5.240E-11	2.585E-11
NNW	60	2.649E-10	2.026E-10	1.602E-10	1.287E-10	1.062E-10	5.325E-11	3.275E-11	1.616E-11
AVERAGE	2090	5.802E-10	4.438E-10	3.516E-10	2.826E-10	2.331E-10	1.163E-10	7.152E-11	3.529E-11

Pilgrim 2nd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	222	3.674E-11	2.474E-11	1.743E-11	1.307E-11	1.017E-11	8.315E-12	6.904E-12	
NNE	296	4.899E-11	3.298E-11	2.324E-11	1.743E-11	1.356E-11	1.109E-11	9.206E-12	
NE	221	3.658E-11	2.463E-11	1.735E-11	1.301E-11	1.012E-11	8.277E-12	6.873E-12	
ENE	114	1.887E-11	1.270E-11	8.951E-12	6.712E-12	5.221E-12	4.270E-12	3.545E-12	
E	121	2.003E-11	1.348E-11	9.501E-12	7.124E-12	5.541E-12	4.532E-12	3.763E-12	
ESE	102	1.688E-11	1.137E-11	8.009E-12	6.005E-12	4.671E-12	3.820E-12	3.172E-12	
SE	68	1.238E-11	8.335E-12	5.873E-12	4.404E-12	3.426E-12	2.802E-12	2.326E-12	
SSE	76	1.258E-11	8.469E-12	5.967E-12	4.474E-12	3.481E-12	2.847E-12	2.364E-12	
S	111	1.837E-11	1.237E-11	8.715E-12	6.535E-12	5.084E-12	4.157E-12	3.452E-12	
SSW	145	2.400E-11	1.616E-11	1.138E-11	8.537E-12	6.641E-12	5.431E-12	4.509E-12	
SW	86	1.423E-11	9.583E-12	6.752E-12	5.063E-12	3.939E-12	3.221E-12	2.675E-12	
WSW	104	1.721E-11	1.159E-11	8.166E-12	6.123E-12	4.763E-12	3.895E-12	3.234E-12	
W	138	2.284E-11	1.538E-11	1.084E-11	8.125E-12	6.320E-12	5.169E-12	4.292E-12	
WNW	130	2.152E-11	1.449E-11	1.021E-11	7.654E-12	5.954E-12	4.869E-12	4.043E-12	
NW	96	1.589E-11	1.070E-11	7.538E-12	5.652E-12	4.397E-12	3.596E-12	2.986E-12	
NNW	60	9.931E-12	6.686E-12	4.711E-12	3.532E-12	2.748E-12	2.247E-12	1.866E-12	
AVERAGE	2090	2.169E-11	1.460E-11	1.029E-11	7.715E-12	6.002E-12	4.908E-12	4.076E-12	

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

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	.12	.25	.50	.75	1.00	1.50	2.00	2.50
N	245	1.904E-07	6.405E-08	2.163E-08	1.141E-08	7.061E-09	3.415E-09	2.083E-09	1.420E-09
NNE	536	4.167E-07	1.401E-07	4.732E-08	2.497E-08	1.545E-08	7.471E-09	4.558E-09	3.106E-09
NE	330	2.565E-07	8.627E-08	2.913E-08	1.537E-08	9.511E-09	4.599E-09	2.806E-09	1.912E-09
ENE	144	1.119E-07	3.764E-08	1.271E-08	6.708E-09	4.150E-09	2.007E-09	1.224E-09	8.344E-10
E	65	5.053E-08	1.699E-08	5.738E-09	3.028E-09	1.873E-09	9.060E-10	5.527E-10	3.766E-10
ESE	70	5.441E-08	1.830E-08	6.180E-09	3.261E-09	2.018E-09	9.756E-10	5.952E-10	4.056E-10
SE	62	4.819E-08	1.621E-08	6.021E-09	3.177E-09	1.966E-09	9.506E-10	5.272E-10	3.593E-10
SSE	71	6.071E-08	2.042E-08	6.895E-09	3.307E-09	2.046E-09	9.896E-10	6.037E-10	4.114E-10
S	75	6.996E-08	2.353E-08	6.621E-09	3.494E-09	2.162E-09	1.045E-09	6.378E-10	4.346E-10
SSW	114	9.748E-08	3.278E-08	1.006E-08	5.311E-09	3.286E-09	1.589E-09	9.694E-10	6.606E-10
SW	120	1.026E-07	3.451E-08	1.059E-08	5.590E-09	3.459E-09	1.673E-09	1.020E-09	6.953E-10
WSW	105	8.978E-08	3.019E-08	9.269E-09	4.891E-09	3.026E-09	1.463E-09	8.929E-10	6.084E-10
W	64	5.472E-08	1.840E-08	5.650E-09	3.280E-09	2.029E-09	9.812E-10	5.442E-10	3.709E-10
WNW	57	4.431E-08	1.490E-08	5.032E-09	2.655E-09	1.643E-09	7.945E-10	5.332E-10	3.633E-10
NW	74	5.752E-08	1.934E-08	6.533E-09	3.447E-09	2.133E-09	1.031E-09	6.293E-10	4.288E-10
NNW	44	3.420E-08	1.150E-08	3.884E-09	2.050E-09	1.268E-09	6.133E-10	3.742E-10	2.550E-10
AVERAGE	2176	1.087E-07	3.657E-08	1.208E-08	6.372E-09	3.943E-09	1.907E-09	1.159E-09	7.901E-10

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	3.00	3.50	4.00	4.50	5.00	7.50	10.00	15.00
N	245	1.039E-09	7.946E-10	6.283E-10	5.049E-10	4.166E-10	2.089E-10	1.284E-10	6.337E-11
NNE	536	2.273E-09	1.738E-09	1.375E-09	1.105E-09	9.113E-10	4.569E-10	2.810E-10	1.386E-10
NE	330	1.399E-09	1.070E-09	8.463E-10	6.801E-10	5.611E-10	2.813E-10	1.730E-10	8.535E-11
ENE	144	6.106E-10	4.670E-10	3.693E-10	2.967E-10	2.448E-10	1.228E-10	7.549E-11	3.724E-11
E	65	2.756E-10	2.108E-10	1.667E-10	1.339E-10	1.105E-10	5.541E-11	3.407E-11	1.681E-11
ESE	70	2.968E-10	2.270E-10	1.795E-10	1.443E-10	1.190E-10	5.967E-11	3.669E-11	1.811E-11
SE	62	2.629E-10	2.011E-10	1.749E-10	1.405E-10	1.160E-10	5.814E-11	3.575E-11	1.764E-11
SSE	71	3.010E-10	2.303E-10	1.821E-10	1.463E-10	1.207E-10	6.053E-11	3.722E-11	1.836E-11
S	75	3.180E-10	2.432E-10	1.923E-10	1.546E-10	1.275E-10	6.394E-11	3.932E-11	1.940E-11
SSW	114	4.834E-10	3.697E-10	2.923E-10	2.349E-10	1.938E-10	9.718E-11	5.976E-11	2.949E-11
SW	120	5.088E-10	3.892E-10	3.077E-10	2.473E-10	2.040E-10	1.023E-10	6.291E-11	3.104E-11
WSW	105	4.452E-10	3.405E-10	2.962E-10	2.380E-10	1.964E-10	8.951E-11	5.504E-11	2.716E-11
W	64	2.714E-10	2.076E-10	1.641E-10	1.319E-10	1.088E-10	5.456E-11	3.355E-11	1.655E-11
WNW	57	2.658E-10	2.033E-10	1.462E-10	1.175E-10	9.692E-11	4.859E-11	2.988E-11	1.474E-11
NW	74	3.138E-10	2.400E-10	1.898E-10	1.525E-10	1.258E-10	6.308E-11	3.879E-11	1.914E-11
NNW	44	1.866E-10	1.427E-10	1.128E-10	9.067E-11	7.481E-11	3.751E-11	2.307E-11	1.138E-11
AVERAGE	2176	5.782E-10	4.422E-10	3.514E-10	2.824E-10	2.330E-10	1.163E-10	7.150E-11	3.528E-11

Pilgrim 3rd Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	20.00	25.00	30.00	34.95	40.00	45.00	50.00
N	245	3.895E-11	2.622E-11	1.848E-11	1.385E-11	1.078E-11	8.814E-12	7.318E-12
NNE	536	8.521E-11	5.737E-11	4.042E-11	3.031E-11	2.358E-11	1.928E-11	1.601E-11
NE	330	5.246E-11	3.532E-11	2.489E-11	1.866E-11	1.452E-11	1.187E-11	9.857E-12
ENE	144	2.289E-11	1.541E-11	1.086E-11	8.143E-12	6.334E-12	5.180E-12	4.301E-12
E	65	1.033E-11	6.957E-12	4.902E-12	3.676E-12	2.859E-12	2.338E-12	1.942E-12
ESE	70	1.113E-11	7.492E-12	5.279E-12	3.958E-12	3.079E-12	2.518E-12	2.091E-12
SE	62	1.084E-11	7.300E-12	5.143E-12	3.857E-12	3.000E-12	2.453E-12	2.037E-12
SSE	71	1.129E-11	7.599E-12	5.354E-12	4.015E-12	3.123E-12	2.554E-12	2.121E-12
S	75	1.192E-11	8.027E-12	5.656E-12	4.241E-12	3.299E-12	2.698E-12	2.240E-12
SSW	114	1.812E-11	1.220E-11	8.597E-12	6.446E-12	5.015E-12	4.101E-12	3.405E-12
SW	120	1.908E-11	1.284E-11	9.050E-12	6.786E-12	5.279E-12	4.317E-12	3.584E-12
WSW	105	1.669E-11	1.124E-11	7.918E-12	5.937E-12	4.619E-12	3.777E-12	3.136E-12
W	64	1.017E-11	6.850E-12	4.826E-12	3.619E-12	2.815E-12	2.302E-12	1.912E-12
WNW	57	9.061E-12	6.101E-12	4.299E-12	3.223E-12	2.507E-12	2.051E-12	1.703E-12
NW	74	1.176E-11	7.920E-12	5.581E-12	4.184E-12	3.255E-12	2.662E-12	2.210E-12
NNW	44	6.995E-12	4.709E-12	3.318E-12	2.488E-12	1.935E-12	1.583E-12	1.314E-12
AVERAGE	2176	2.168E-11	1.460E-11	1.029E-11	7.712E-12	5.999E-12	4.906E-12	4.074E-12

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

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	176	1.468E-07	4.937E-08	1.667E-08	8.797E-09	5.443E-09	2.632E-09	1.606E-09	1.094E-09	
NNE	378	3.153E-07	1.060E-07	3.581E-08	1.889E-08	1.169E-08	5.653E-09	3.449E-09	2.350E-09	
NE	281	2.344E-07	7.882E-08	2.662E-08	1.405E-08	8.690E-09	4.202E-09	2.564E-09	1.747E-09	
ENE	308	2.569E-07	8.639E-08	2.917E-08	1.539E-08	9.525E-09	4.606E-09	2.810E-09	1.915E-09	
E	166	1.385E-07	4.656E-08	1.572E-08	8.297E-09	5.134E-09	2.483E-09	1.515E-09	1.032E-09	
ESE	133	1.109E-07	3.730E-08	1.260E-08	6.648E-09	4.113E-09	1.989E-09	1.213E-09	8.269E-10	
SE	136	1.134E-07	3.815E-08	1.288E-08	6.798E-09	4.206E-09	2.034E-09	1.241E-09	8.456E-10	
SSE	49	4.087E-08	1.374E-08	4.641E-09	2.449E-09	1.515E-09	7.328E-10	4.471E-10	3.047E-10	
S	47	4.312E-08	1.450E-08	4.452E-09	2.349E-09	1.454E-09	7.029E-10	4.288E-10	2.922E-10	
SSW	62	5.688E-08	1.913E-08	5.873E-09	3.099E-09	1.917E-09	9.272E-10	5.657E-10	3.855E-10	
SW	43	3.945E-08	1.327E-08	4.073E-09	2.149E-09	1.330E-09	6.431E-10	3.923E-10	2.674E-10	
WSW	40	3.670E-08	1.234E-08	3.789E-09	1.999E-09	1.237E-09	5.982E-10	3.650E-10	2.487E-10	
W	35	3.211E-08	1.080E-08	3.315E-09	1.924E-09	1.191E-09	5.758E-10	3.193E-10	2.176E-10	
WNW	37	3.086E-08	1.038E-08	3.505E-09	1.849E-09	1.144E-09	5.533E-10	3.713E-10	2.531E-10	
NW	65	5.421E-08	1.823E-08	6.157E-09	3.249E-09	2.010E-09	9.721E-10	5.931E-10	4.041E-10	
NNW	72	6.005E-08	2.020E-08	6.820E-09	3.599E-09	2.227E-09	1.077E-09	6.569E-10	4.477E-10	
AVERAGE	2028	1.069E-07	3.595E-08	1.201E-08	6.346E-09	3.927E-09	1.899E-09	1.159E-09	7.895E-10	

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

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	176	8.007E-10	6.124E-10	4.843E-10	3.892E-10	3.211E-10	1.610E-10	9.899E-11	4.884E-11	
NNE	378	1.720E-09	1.315E-09	1.040E-09	8.358E-10	6.896E-10	3.458E-10	2.126E-10	1.049E-10	
NE	281	1.278E-09	9.778E-10	7.732E-10	6.213E-10	5.126E-10	2.570E-10	1.581E-10	7.798E-11	
ENE	308	1.401E-09	1.072E-09	8.475E-10	6.810E-10	5.619E-10	2.817E-10	1.732E-10	8.548E-11	
E	166	7.552E-10	5.776E-10	4.568E-10	3.671E-10	3.028E-10	1.518E-10	9.337E-11	4.607E-11	
ESE	133	6.051E-10	4.628E-10	3.660E-10	2.941E-10	2.426E-10	1.217E-10	7.481E-11	3.691E-11	
SE	136	6.187E-10	4.733E-10	4.116E-10	3.308E-10	2.729E-10	1.244E-10	7.650E-11	3.774E-11	
SSE	49	2.229E-10	1.705E-10	1.348E-10	1.083E-10	8.939E-11	4.482E-11	2.756E-11	1.360E-11	
S	47	2.138E-10	1.636E-10	1.293E-10	1.039E-10	8.574E-11	4.299E-11	2.644E-11	1.304E-11	
SSW	62	2.821E-10	2.157E-10	1.706E-10	1.371E-10	1.131E-10	5.671E-11	3.487E-11	1.721E-11	
SW	43	1.956E-10	1.496E-10	1.183E-10	9.508E-11	7.845E-11	3.933E-11	2.419E-11	1.193E-11	
WSW	40	1.820E-10	1.392E-10	1.211E-10	9.729E-11	8.027E-11	3.659E-11	2.250E-11	1.110E-11	
W	35	1.592E-10	1.218E-10	9.630E-11	7.739E-11	6.385E-11	3.201E-11	1.969E-11	9.713E-12	
WNW	37	1.852E-10	1.416E-10	1.018E-10	8.181E-11	6.750E-11	3.384E-11	2.081E-11	1.027E-11	
NW	65	2.957E-10	2.262E-10	1.789E-10	1.437E-10	1.186E-10	5.946E-11	3.656E-11	1.804E-11	
NNW	72	3.276E-10	2.505E-10	1.981E-10	1.592E-10	1.314E-10	6.586E-11	4.050E-11	1.998E-11	
AVERAGE	2028	5.777E-10	4.419E-10	3.518E-10	2.827E-10	2.332E-10	1.159E-10	7.129E-11	3.518E-11	

Pilgrim 4th Quarter 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)								
		20.00	25.00	30.00	34.95	40.00	45.00	50.00		
N	176	3.002E-11	2.021E-11	1.424E-11	1.068E-11	8.307E-12	6.794E-12	5.641E-12		
NNE	378	6.448E-11	4.341E-11	3.059E-11	2.293E-11	1.784E-11	1.459E-11	1.212E-11		
NE	281	4.793E-11	3.227E-11	2.274E-11	1.705E-11	1.326E-11	1.085E-11	9.006E-12		
ENE	308	5.254E-11	3.537E-11	2.492E-11	1.869E-11	1.454E-11	1.189E-11	9.872E-12		
E	166	2.832E-11	1.906E-11	1.343E-11	1.007E-11	7.835E-12	6.408E-12	5.320E-12		
ESE	133	2.269E-11	1.527E-11	1.076E-11	8.070E-12	6.277E-12	5.134E-12	4.263E-12		
SE	136	2.320E-11	1.562E-11	1.100E-11	8.252E-12	6.419E-12	5.250E-12	4.359E-12		
SSE	49	8.358E-12	5.627E-12	3.965E-12	2.973E-12	2.313E-12	1.891E-12	1.570E-12		
S	47	8.017E-12	5.398E-12	3.803E-12	2.852E-12	2.218E-12	1.814E-12	1.506E-12		
SSW	62	1.058E-11	7.120E-12	5.017E-12	3.762E-12	2.926E-12	2.393E-12	1.987E-12		
SW	43	7.335E-12	4.938E-12	3.479E-12	2.609E-12	2.029E-12	1.660E-12	1.378E-12		
WSW	40	6.823E-12	4.594E-12	3.237E-12	2.427E-12	1.888E-12	1.544E-12	1.282E-12		
W	35	5.970E-12	4.019E-12	2.832E-12	2.124E-12	1.652E-12	1.351E-12	1.122E-12		
WNW	37	6.311E-12	4.249E-12	2.994E-12	2.245E-12	1.746E-12	1.428E-12	1.186E-12		
NW	65	1.109E-11	7.465E-12	5.260E-12	3.944E-12	3.068E-12	2.509E-12	2.083E-12		
NNW	72	1.228E-11	8.269E-12	5.826E-12	4.369E-12	3.398E-12	2.779E-12	2.308E-12		
AVERAGE	2028	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 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

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	760	1.532E-07	5.153E-08	1.740E-08	9.183E-09	5.682E-09	2.748E-09	1.676E-09	1.142E-09
NNE	1381	2.785E-07	9.364E-08	3.162E-08	1.669E-08	1.032E-09	4.993E-09	3.046E-09	2.076E-09
NE	992	2.000E-07	6.726E-08	2.272E-08	1.199E-08	7.416E-09	3.586E-09	2.188E-09	1.491E-09
ENE	839	1.692E-07	5.689E-08	1.921E-08	1.014E-08	6.272E-09	3.033E-09	1.851E-09	1.261E-09
E	781	1.575E-07	5.296E-08	1.788E-08	9.437E-09	5.839E-09	2.824E-09	1.723E-09	1.174E-09
ESE	562	1.133E-07	3.811E-08	1.287E-08	6.791E-09	4.202E-09	2.032E-09	1.240E-09	8.447E-10
SE	390	7.864E-08	2.644E-08	8.930E-09	4.712E-09	2.916E-09	1.410E-09	8.602E-10	5.862E-10
SSE	262	5.283E-08	1.777E-08	5.999E-09	3.166E-09	1.959E-09	9.472E-10	5.779E-10	3.938E-10
S	295	6.543E-08	2.200E-08	6.755E-09	3.565E-09	2.205E-09	1.067E-09	6.507E-10	4.434E-10
SSW	395	8.761E-08	2.946E-08	9.045E-09	4.773E-09	2.953E-09	1.428E-09	8.712E-10	5.937E-10
SW	325	7.208E-08	2.424E-08	7.442E-09	3.927E-09	2.430E-09	1.175E-09	7.168E-10	4.885E-10
WSW	306	6.787E-08	2.282E-08	7.007E-09	3.697E-09	2.288E-09	1.106E-09	6.749E-10	4.599E-10
W	307	6.809E-08	2.290E-08	7.030E-09	4.081E-09	2.525E-09	1.221E-09	6.771E-10	4.614E-10
WNW	263	5.303E-08	1.783E-08	6.022E-09	3.178E-09	1.966E-09	9.508E-10	6.381E-10	4.348E-10
NW	310	6.251E-08	2.102E-08	7.099E-09	3.746E-09	2.318E-09	1.121E-09	6.838E-10	4.659E-10
NNW	221	4.456E-08	1.499E-08	5.061E-09	2.670E-09	1.652E-09	7.990E-10	4.875E-10	3.322E-10
AVERAGE	8389	1.078E-07	3.624E-08	1.201E-08	6.359E-09	3.934E-09	1.902E-09	1.160E-09	7.905E-10

Pilgrim 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

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	760	8.359E-10	6.393E-10	5.055E-10	4.062E-10	3.352E-10	1.681E-10	1.033E-10	5.099E-11
NNE	1381	1.519E-09	1.162E-09	9.186E-10	7.382E-10	6.091E-10	3.054E-10	1.878E-10	9.265E-11
NE	992	1.091E-09	8.345E-10	6.599E-10	5.303E-10	4.375E-10	2.194E-10	1.349E-10	6.655E-11
ENE	839	9.227E-10	7.058E-10	5.581E-10	4.485E-10	3.700E-10	1.855E-10	1.141E-10	5.629E-11
E	781	8.589E-10	6.570E-10	5.195E-10	4.175E-10	3.444E-10	1.727E-10	1.062E-10	5.240E-11
ESE	562	6.181E-10	4.728E-10	3.738E-10	3.004E-10	2.479E-10	1.243E-10	7.642E-11	3.770E-11
SE	390	4.289E-10	3.281E-10	2.854E-10	2.293E-10	1.892E-10	8.624E-11	5.303E-11	2.616E-11
SSE	262	2.881E-10	2.204E-10	1.743E-10	1.400E-10	1.155E-10	5.793E-11	3.563E-11	1.758E-11
S	295	3.244E-10	2.482E-10	1.962E-10	1.577E-10	1.301E-10	6.523E-11	4.011E-11	1.979E-11
SSW	395	4.344E-10	3.323E-10	2.627E-10	2.111E-10	1.742E-10	8.734E-11	5.371E-11	2.650E-11
SW	325	3.574E-10	2.734E-10	2.162E-10	1.737E-10	1.433E-10	7.187E-11	4.419E-11	2.180E-11
WSW	306	3.365E-10	2.574E-10	2.239E-10	1.799E-10	1.485E-10	6.766E-11	4.161E-11	2.053E-11
W	307	3.376E-10	2.583E-10	2.042E-10	1.641E-10	1.354E-10	6.789E-11	4.174E-11	2.060E-11
WNW	263	3.182E-10	2.434E-10	1.749E-10	1.406E-10	1.160E-10	5.816E-11	3.576E-11	1.764E-11
NW	310	3.409E-10	2.608E-10	2.062E-10	1.657E-10	1.367E-10	6.855E-11	4.215E-11	2.080E-11
NNW	221	2.431E-10	1.859E-10	1.470E-10	1.181E-10	9.747E-11	4.887E-11	3.005E-11	1.483E-11
AVERAGE	8389	5.784E-10	4.424E-10	3.517E-10	2.826E-10	2.332E-10	1.159E-10	7.129E-11	3.518E-11

Pilgrim 2001 General X/Q- Ground Level -- SECTOR AVERAGE MODEL

AVERAGE DEPOSITION RATES (REGULATORY GUIDE 1.111 MODEL) -- (1/M2)

DOWNWIND SECTOR	NO. OBS	DISTANCE FROM RELEASE POINT (MILES)							
		20.00	25.00	30.00	34.95	40.00	45.00	50.00	
N	760	3.134E-11	2.110E-11	1.487E-11	1.115E-11	8.671E-12	7.092E-12	5.889E-12	
NNE	1381	5.695E-11	3.834E-11	2.701E-11	2.026E-11	1.576E-11	1.289E-11	1.070E-11	
NE	992	4.091E-11	2.754E-11	1.940E-11	1.455E-11	1.132E-11	9.257E-12	7.686E-12	
ENE	839	3.460E-11	2.329E-11	1.641E-11	1.231E-11	9.573E-12	7.829E-12	6.501E-12	
E	781	3.220E-11	2.168E-11	1.528E-11	1.146E-11	8.911E-12	7.288E-12	6.051E-12	
ESE	562	2.317E-11	1.560E-11	1.099E-11	8.243E-12	6.412E-12	5.244E-12	4.354E-12	
SE	390	1.608E-11	1.083E-11	7.629E-12	5.720E-12	4.450E-12	3.639E-12	3.022E-12	
SSE	262	1.080E-11	7.274E-12	5.125E-12	3.843E-12	2.989E-12	2.445E-12	2.030E-12	
S	295	1.216E-11	8.190E-12	5.771E-12	4.327E-12	3.366E-12	2.753E-12	2.286E-12	
SSW	395	1.629E-11	1.097E-11	7.727E-12	5.794E-12	4.507E-12	3.686E-12	3.060E-12	
SW	325	1.340E-11	9.023E-12	6.357E-12	4.767E-12	3.708E-12	3.033E-12	2.518E-12	
WSW	306	1.262E-11	8.495E-12	5.986E-12	4.488E-12	3.491E-12	2.855E-12	2.371E-12	
W	307	1.266E-11	8.523E-12	6.005E-12	4.503E-12	3.503E-12	2.865E-12	2.379E-12	
WNW	263	1.084E-11	7.302E-12	5.145E-12	3.858E-12	3.001E-12	2.454E-12	2.038E-12	
NW	310	1.278E-11	8.606E-12	6.064E-12	4.547E-12	3.537E-12	2.893E-12	2.402E-12	
NNW	221	9.113E-12	6.136E-12	4.323E-12	3.242E-12	2.522E-12	2.062E-12	1.712E-12	
AVERAGE	8389	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 2001.