Nebraska Public Power District

Always there when you need us

NLS2006030
May 1, 2006

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Subject: Annual Radioactive Effluent Release Report
Cooper Nuclear Station, NRC Docket 50-298, DPR-46

The purpose of this letter is to submit to the Nuclear Regulatory Commission (NRC) the Cooper Nuclear Station (CNS) Annual Radioactive Effluent Release Report for the period January 1, 2005, through December 31, 2005. This report is being submitted for NRC use per the requirements of CNS Offsite Dose Assessment Manual Section D 5.3.

In accordance with 10 CFR 50.4(b)(1), we are enclosing one approved original for your use. We are also sending one copy to the Regional Office, and one copy to the NRC Senior Resident Inspector.

Should you have any questions regarding this submittal, please contact Paul Fleming, Licensing Manager, at (402) 825-2774.

Sincerely,

James R. Shaherty
for Paul V. Fleming
Licensing Manager

/cb

Enclosure

cc: Regional Administrator w/enclosure
USNRC - Region IV

Cooper Project Manager w/enclosure
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector w/enclosure
CNS - USNRC

NPG Distribution w/o enclosure

CNS Records w/enclosure

IE48
A009

COOPER NUCLEAR STATION
P.O. Box 98 / Brownville, NE 68321-0098
***Telephone:** (402) 825-3811 / **Fax:** (402) 825-5211*
www.nppd.com

Correspondence Number: NLS2006030

The following table identifies those actions committed to by Nebraska Public Power District (NPPD) in this document. Any other actions discussed in the submittal represent intended or planned actions by NPPD. They are described for information only and are not regulatory commitments. Please notify the Licensing Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITMENT NUMBER	COMMITTED DATE OR OUTAGE
None		

NLS2006030
Enclosure 1

Radioactive Effluent Release Report

Cooper Nuclear Station, Docket 50-298, DPR-46

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

RADIOACTIVE EFFLUENT RELEASE REPORT

January 1, 2005 through December 31, 2005

USNRC Docket 50-298

CONTENTS

Introduction

Appendix A: Source Terms

Appendix B: Meteorology

Appendix C: Dose Calculations

References

INTRODUCTION

This report summarizes meteorological data and doses from radioactive effluents for the Cooper Nuclear Station for the period January through December, 2005. The data presented is consistent with guidance provided in Regulatory Guide 1.21 of the U.S. Nuclear Regulatory Commission (Revision 1, 1974) for reporting meteorological data and radioactive effluent data.

The report is organized into three parts. Appendix A presents the effluent and waste disposal source term data. Appendix B presents a summary of onsite meteorological data for the report period, including atmospheric diffusion estimates and a description of the atmospheric diffusion model. Appendix C presents the doses from liquid and gaseous radioactive effluents. Descriptions of the dose calculation models are also included.

APPENDIX A

SOURCE TERMS

EFFLUENT AND WASTE DISPOSAL REPORTS

SUPPLEMENTAL INFORMATION

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT

January 1, 2005 through December 31, 2005

Cooper Nuclear Station effluent and waste disposal data are presented in the format prescribed by Regulatory Guide I.2I. Meteorological data required by Table 4A&B of Regulatory Guide I.2I is included in the Meteorological Section of the Annual Radioactive Material Release Report - Radioactive Effluents.

Facility Cooper Nuclear Station License DPR-46.

A. Regulatory Limits

1. Gaseous Waste Effluents

a. The dose rates due to radioactive materials released in gaseous effluents offsite shall be limited to the following:

1. Noble Gases: Less than or equal to 500 mrem/yr to the total body and less than or equal to 3000 mrem/yr to the skin.

2. I-131, I-133, tritium, and all radionuclides in particulate form with half-lives greater than or equal to 8 days: Less than or equal to 1500 mrem/yr to any organ.

b. The air dose due to noble gases released in gaseous effluents offsite shall be limited to the following:

1. During any calendar quarter: Less than or equal to 5 mrad from gamma radiation and less than or equal to 10 mrad from beta radiation.

2. During any calendar year: Less than or equal to 10 mrad from gamma radiation and less than or equal to 20 mrad from beta radiation.

c. The dose to a member of the public due to I-131, I-133, and radioactive materials in particulate form with half-lives greater than 8 days in gaseous effluents offsite shall be limited to the following:

1. During any calendar quarter: Less than or equal to 7.5 mrem to any organ.

2. During any calendar year: Less than or equal to 15 mrem to any organ.

2. Liquid Waste Effluents

a. January 1, 2005 through December 31, 2005

The concentration of radioactive material in water offsite due to radioactive liquid effluents shall not exceed the concentration specified in 10 CFR 20 Part 20.1302 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall not exceed 2 x 10-4 Ci/ml total activity. (CNS Technical Specification Amendment 174 Implementation)

b. The dose to a member of the public due to radioactive material in liquid effluents offsite shall be limited to the following:

1. During any calendar quarter: Less than or equal to 1.5 mrem to the total body and less than or equal to 5 mrem to any organ.

2. During any calendar year: Less than or equal to 3 mrem to the total body and less than or equal to 10 mrem to any organ.

B. Maximum Permissible Concentrations

1. Water: Covered in Section A.2.

2. Air: Covered in Section A.1.

C. Average Energy

The average energy (E) of the radionuclide mixtures of fission and activation gases released is not applicable. This information is not utilized for dose or release calculations.

D. Measurements and Approximations of Total Radioactivity

The methods used to measure or approximate the total radioactivity in effluents and to determine radionuclide composition are as follows:

1. Gaseous Effluents

a. Fission and Activation Gases:

Radioactivity and radionuclide composition is determined by laboratory HPGe detector analysis in correlation with continuous gross radioactivity monitoring by a beta scintillation detector in the release pathway.

b. Iodines:

Charcoal cartridges provide continuous sample collection. These cartridges are analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer.

c. Particulates:

Particulate filters provide continuous sample collection. These filters are analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer. An aliquot of a filter composite from each release point was analyzed for Sr-89, Sr-90, and gross alpha by an offsite laboratory.

d. Tritium:

A portable sampling apparatus is utilized to collect a quarterly sample of each radioactive vent effluent. These samples are analyzed using a liquid scintillation counter.

2. Liquid Effluents

a. Principal gamma emitters and dissolved and entrained gases:

Each batch of liquid effluent is analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer. In addition, each batch is monitored for gross gamma radioactivity by a NaI detector in-line with the release pathway.

b. Tritium:

An aliquot of a monthly composite is analyzed using a liquid scintillation counter.

c. Sr-89 and Sr-90:

An aliquot from a quarterly composite is analyzed by an offsite laboratory.

d. Gross alpha:

An aliquot from a monthly composite is analyzed by gas flow proportional counting.

e. Fe-55:

An aliquot from a quarterly composite is analyzed by an offsite laboratory.

E. Batch Releases

a. Liquid

1.	Number of batch releases	0	
2.	Total time period for batch releases	N/A	minutes
3.	Maximum time period for batch release	N/A	minutes
4.	Average time period for batch release	N/A	minutes
5.	Minimum time period for batch release	N/A	minutes
6.	Average stream flow during periods of release of effluent into a flowing stream:	N/A	liters/minute

b. Gaseous

1.	Number of batch releases	0	
2.	Total time period for batch releases	N/A	minutes
3.	Maximum time period for batch release	N/A	minutes
4.	Average time period for batch release	N/A	minutes
5.	Minimum time period for batch release	N/A	minutes

F. Abnormal Release

a. Liquid

1.	Number of releases:	0	
2.	Total activity released	0	Ci

b. Gaseous

1.	Number of releases:	0	
2.	Total activity released	0	Ci

TABLE 1A
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR	EST. TOTAL ERROR %
A. Fission and activation gases						
1. Total release	Ci	2.94E+00	5.12E+00	1.11E+00	1.12E+00	2.0E+01
2. Average release rate for period	µCi/sec	3.79E-01	6.52E-01	1.39E-01	1.41E-01	
B. Iodines						
1. Total iodine 131	Ci	6.86E-05	9.71E-05	8.78E-05	4.17E-05	3.0E+01
2. Average release rate for period	µCi/sec	8.82E-06	1.23E-05	1.10E-05	5.25E-06	
C. Particulates						
1. Particulates with half-lives >8 days	Ci	7.27E-04	1.28E-04	7.44E-05	1.06E-05	5.0E+01
2. Average release rate for period	µCi/sec	9.34E-05	1.62E-05	9.36E-06	1.33E-06	
3. Gross alpha radioactivity	Ci	7.40E-06	2.67E-06	4.71E-06	2.28E-06	
D. Tritium						
1. Total release	Ci	8.61E-01	4.49E+00	1.02E+01	4.06E+00	3.0E+01
2. Average release rate for period	µCi/sec	1.11E-01	5.71E-01	1.29E+00	5.11E-01	

TABLE 1B
EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-ELEVATED RELEASE
CONTINUOUS MODE *BATCH

	NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
1.	Fission gases					
	argon-41	Ci	1.82E-02	1.04E-02	1.43E-03	0.00E+00
	krypton-83m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-85m	Ci	1.61E-01	1.98E-01	2.00E-02	0.00E+00
	krypton-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-87	Ci	6.64E-01	9.10E-01	4.73E-02	2.75E-02
	krypton-88	Ci	5.29E-01	6.72E-01	4.79E-02	0.00E+00
	krypton-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-133	Ci	3.74E-02	9.17E-02	3.24E-03	0.00E+00
	xenon-135m	Ci	2.45E-01	6.17E-01	1.98E-01	2.26E-01
	xenon-135	Ci	4.85E-01	7.44E-01	7.11E-02	4.62E-02
	xenon-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-138	Ci	8.04E-01	1.88E+00	7.17E-01	8.24E-01
	Total for period	Ci	2.94E+00	5.12E+00	1.11E+00	1.12E+00
2.	Iodines					
	iodine-131	Ci	2.89E-05	7.45E-05	5.40E-05	1.67E-05
	iodine-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-133	Ci	1.06E-04	8.99E-05	5.89E-05	1.03E-04
	iodine-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	1.35E-04	1.64E-04	1.13E-04	1.20E-04

* No batch discharges were made

TABLE 1B
EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-ELEVATED RELEASE (continued)
CONTINUOUS MODE *BATCH

	NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
3.	Particulates					
	chromium-51	Ci	3.00E-05	0.00E+00	3.37E-06	0.00E+00
	manganese-54	Ci	2.41E-05	1.68E-07	4.78E-07	0.00E+00
	manganese-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iron-59	Ci	5.39E-06	0.00E+00	1.90E-07	0.00E+00
	cobalt-58	Ci	8.02E-06	0.00E+00	1.30E-07	0.00E+00
	cobalt-60	Ci	6.83E-05	6.98E-07	1.36E-06	8.48E-08
	zinc-65	Ci	3.66E-05	0.00E+00	0.00E+00	0.00E+00
	zinc-69	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	rubidium-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	rubidium-89	Ci	4.57E-03	5.66E-03	0.00E+00	8.81E-04
	strontium-89	Ci	5.80E-06	1.39E-05	3.59E-06	1.32E-06
	strontium-90	Ci	3.80E-08	0.00E+00	2.46E-08	1.24E-08
	strontium-91	Ci	8.32E-05	1.48E-04	7.48E-05	5.01E-05
	strontium-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	niobium-95	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	silver-110m	Ci	9.84E-06	0.00E+00	0.00E+00	0.00E+00
	tellurium-132	Ci	0.00E+00	0.00E+00	5.31E-08	0.00E+00
	cesium-137	Ci	3.28E-07	3.65E-07	0.00E+00	0.00E+00
	cesium-138	Ci	5.18E-03	6.87E-03	5.21E-03	2.31E-03
	barium-139	Ci	5.02E-03	6.03E-03	5.59E-03	3.50E-03
	barium-140	Ci	5.81E-06	2.02E-05	1.66E-06	8.78E-07
	lanthanum-140	Ci	6.59E-06	2.03E-05	2.50E-06	2.17E-06
	cerium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	praesodymium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	1.51E-02	1.88E-02	1.09E-02	6.75E-03
	Total for period with >8d half life	Ci	1.94E-04	3.53E-05	1.08E-05	2.30E-06

* No batch discharges were made

TABLE 1C
EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-BUILDING VENT RELEASES) (continued)
CONTINUOUS MODE *BATCH

	NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
1.	Fission gases					
	krypton-83m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	Iodines					
	iodine-131	Ci	3.97E-05	2.26E-05	3.38E-05	2.50E-05
	iodine-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-133	Ci	2.21E-05	6.60E-05	3.35E-05	5.53E-05
	iodine-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	6.18E-05	8.86E-05	6.73E-05	8.03E-05

TABLE 1C
EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-BUILDING VENT RELEASES) (continued)
CONTINUOUS MODE *BATCH

3.	Particulates					
	chromium-51	Ci	1.43E-04	4.23E-06	0.00E+00	0.00E+00
	manganese-54	Ci	8.05E-05	2.04E-05	2.44E-05	1.35E-06
	manganese-56	Ci	2.89E-05	0.00E+00	0.00E+00	0.00E+00
	cobalt-57	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cobalt-58	Ci	1.81E-05	1.81E-06	0.00E+00	0.00E+00
	iron-59	Ci	2.21E-05	0.00E+00	0.00E+00	0.00E+00
	cobalt-60	Ci	2.16E-04	5.23E-05	3.65E-05	4.85E-06
	zinc-65	Ci	4.15E-05	0.00E+00	0.00E+00	0.00E+00
	rubidium-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	strontium-89	Ci	2.06E-06	0.00E+00	2.50E-06	1.91E-06
	strontium-90	Ci	3.93E-07	1.36E-05	1.99E-07	1.86E-07
	strontium-91	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	strontium-92	Ci	9.96E-05	0.00E+00	0.00E+00	0.00E+00
	yttrium-91m	Ci	0.00E+00	0.00E+00	4.13E-06	0.00E+00
	niobium-95	Ci	1.30E-06	0.00E+00	0.00E+00	0.00E+00
	technicium-99m	Ci	9.41E-07	0.00E+00	0.00E+00	0.00E+00
	silver-110m	Ci	7.35E-06	0.00E+00	0.00E+00	0.00E+00
	cesium-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cesium-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	barium-139	Ci	2.31E-03	3.39E-03	3.17E-03	3.64E-04
	barium-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	lanthanum-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cerium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	praseodymium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	2.97E-03	3.48E-03	3.24E-03	3.72E-04
	Total for period >8 day half life	Ci	5.32E-04	9.23E-05	6.36E-05	8.30E-06

* No batch discharges were made

TABLE 2A
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR	EST. TOTAL ERROR %
A. Fission and activation products						
1. Total release (not including tritium, gases or alpha)	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2. Average diluted concentration during period	uCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
B. Tritium						
1. Total release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2. Average diluted concentration during period	uCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
C. Dissolved and entrained gases						
1. Total release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2. Average diluted concentration during period	uCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
D. Gross alpha radioactivity						
1. Total release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
E. Volume of waste released (prior to dilution)	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
F. Volume of dilution water used during period	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

TABLE 2B
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
LIQUID EFFLUENTS
CONTINUOUS MODE* BATCH MODE

NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
NONE	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

* No continuous mode discharges were made

TABLE 3

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
PERIOD January 1, 2005 TO December 31, 2005

A. Solid Waste Shipped Offsite for Burial or Disposal (Not Irradiated Fuel)

1. Type of Waste

	Unit	12 Month Period	Est. Total Error %
a. Spent resins, filter sludges evaporator bottoms, etc.	m3	7.81E+00	N/A
	Ci	6.75E+02	15%
b. Dry compressible waste, contaminated equip, etc.	m3	9.51E+02	N/A
	Ci	9.33E+01	25%
c. Irradiated components, control rods, etc.	m3	3.28E+00	N/A
	Ci	2.29E+04	15%
d. Other	m3	N/A	N/A
	Ci	N/A	N/A

2. Estimate of Major Nuclide Composition (By Type of Waste), Percent %

a.

americium-241	2.51E – 04	iron-59	3.28E - 01
antimony-124	3.04E - 02	lanthanum-140	2.14E - 22
barium-140	3.66E - 07	manganese-54	1.77E + 01
carbon-14	3.77E - 02	nickel-63	3.32E - 01
cerium-141	1.14E - 05	niobium-95	3.16E - 04
cerium-144	3.04E - 04	plutonium-238	4.61E - 04
cesuim-134	2.89E - 03	plutonium-239	3.25E - 04
cesuim-137	1.51E - 01	plutonium-241	3.15E - 02
chromium-51	1.97E - 01	silver-110m	3.07E + 00
cobalt-57	1.20E - 05	sodium-22	4.01E – 04
cobalt-58	3.89E - 01	strontium-89	3.28E - 02
cobalt-60	3.61E + 01	strontium-90	1.60E - 02
curium-242	5.42E - 04	technetium-99	6.45E - 03
curium-244	2.67E - 04	tellurium-132	6.38E - 06
iodine-129	3.07E - 03	tritium	9.30E - 03
iodine-131	7.11E - 05	zinc-65	5.83E + 00
iron-55	3.56E + 01		

TABLE 3

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS (continued)
PERIOD January 1, 2005 TO December 31, 2005

b.

americium-241	1.50E - 04	iron-59	9.92E - 01
antimony-124	8.11E - 02	lanthanum-140	3.31E - 26
barium-140	8.10E - 11	manganese-54	1.15E + 01
carbon-14	4.63E - 02	nickel-59	9.49E - 04
cerium-141	2.47E - 06	nickel-63	1.82E - 01
cerium-144	2.78E - 04	niobium-95	4.20E - 02
cesium-134	9.14E - 03	plutonium-238	2.63E - 04
cesium-137	1.09E - 01	plutonium-239	1.89E - 04
chromium-51	7.98E - 01	plutonium-241	1.81E - 02
cobalt-57	2.80E - 09	silver-110m	2.24E + 00
cobalt-58	1.11E + 00	sodium-22	4.18E - 04
cobalt-60	2.57E + 01	strontium-89	1.21E - 01
curium-242	3.57E - 04	strontium-90	5.81E - 03
curium-244	1.60E - 04	technetium-99	1.25E - 03
iodine-129	2.04E - 03	tellurium-132	6.86E - 25
iodine-131	4.79E - 05	tritium	5.96E - 03
iron-55	5.41E + 01	zinc-65	2.86E + 00

c.

americium-241	5.57E - 08	nickel-59	2.95E - 02
americium-243	1.25E - 09	nickel-63	5.70E+ 00
antimony-124	3.54E - 06	niobium-94	1.68E - 04
antimony-125	1.41E - 01	niobium-95	1.98E - 06
carbon-14	8.90E - 03	plutonium-238	6.36E - 05
cesium-134	1.41E - 07	plutonium-239	4.37E - 08
cesium-137	2.97E - 07	plutonium-240	4.96E - 08
chromium-51	6.23E - 02	plutonium-241	7.76E - 06
cobalt-58	8.16E - 02	silver-110m	1.49E - 04
cobalt-60	6.10E+ 01	strontium-89	7.19E - 06
curium-242	5.00E - 07	strontium-90	9.74E - 08
curium-243	1.38E - 09	technetium-99	3.20E - 05
curium-244	2.04E - 07	tellurium-125m	1.32E - 02
iron-55	3.25E+ 01	tritium	9.83E - 03
iron-59	8.86E - 03	uranium-235	6.75E - 12
manganese-54	6.32E - 01	zinc-65	1.14E - 04
neptunium-237	5.92E - 09	zirconium-95	2.61E - 11

TABLE 3

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS (continued)
PERIOD January 1, 2005 TO December 31, 2005

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
96	Exclusive Vehicle	Clive, Utah
20	Exclusive Vehicle	Barnwell, South Carolina

4. Solidification Agent

No shipments required solidification during this period

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
0	N/A	N/A

GASEOUS RADIOACTIVE WASTE
CUMULATIVE DOSE DATA

			1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
A.	Maximum gamma air dose						
	Site boundary*		NNE	N	N	N	N
	1. Total	mrad	3.37E-05	2.70E-04	9.66E-05	2.29E-05	4.08E-04
	Percent of Technical						
	2. Specification Limit		<0.01%	0.01%	<0.01%	<0.01%	<0.01%
	Most Exposed Resident*		NW	NW	NW	NW	NW
	1. Total	mrad	1.31E-04	2.93E-04	6.17E-05	4.64E-05	5.04E-04
	Percent of Technical						
	2. Specification Limit		<0.01%	0.01%	<0.01%	<0.01%	0.01%
B.	Maximum beta air dose						
	Site boundary*		NNE	N	N	N	N
	1. Total	mrad	2.17E-05	1.68E-04	5.02E-05	1.19E-05	2.48E-04
	Percent of Technical						
	2. Specification Limit		<0.01%	<0.01%	<0.01%	<0.01%	<0.01%
	Most Exposed Resident*		NW	NW	NW	NW	NW
	1. Total	mrad	8.43E-05	1.83E-04	3.21E-05	2.41E-05	3.06E-04
	Percent of Technical						
	2. Specification Limit		<0.01%	<0.01%	<0.01%	<0.01%	<0.01%
C.	Maximum organ dose due to I-131, I-133, and particulates (>8 day half lives)						
	Site boundary*		N	N	N	N	N
	1. Total	mrem	3.10E-02	9.36E-02	5.64E-02	1.78E-02	1.40E-01
	Percent of Technical						
	2. Specification Limit		0.41%	1.25%	0.75%	0.24%	0.93%
	3. Organ		Thyroid	Bone	Thyroid	Thyroid	Thyroid
	4. Exposed Individual		Infant	Child	Infant	Infant	Infant
	Most Exposed Resident*		NW	NW	NW	NW	NW
	1. Total	mrem	1.33E-02	2.74E-02	1.11E-02	5.51E-03	4.22E-02
	Percent of Technical						
	2. Specification Limit		0.18%	0.37%	0.15%	0.07%	0.28%
	3. Organ		Thyroid	Bone	Thyroid	Thyroid	Thyroid
	4. Exposed Individual		Infant	Child	Infant	Infant	Infant

D. Maximum organ dose rate due to I-131, I-133, tritium, and particulates (>8 day half-lives) was 0.14 mrem/year which was 0.93% of the Technical Specification Limit.

E. All radioactive noble gas effluent monitors were set to automatically alarm when the monitor alarm set point, determined as specified in the Offsite Dose Assessment Manual (ODAM), was exceeded. This is required to ensure that the 500 mrem/yr to the total body and the 3000 mrem/yr to the skin limits are not exceeded.

**Resident and Site Boundary Key: N is 0.67 miles North, NNE is 0.6 miles North-northeast, NW residence is 0.90 miles Northwest*

LIQUID RADIOACTIVE WASTE
CUMULATIVE DOSE DATA

			1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
A.	Maximum whole body dose						
	1. Total	mrem	0	0	0	0	0
	2. Percent of Technical Specification Limit		0.00%	0.00%	0.00%	0.00%	0.00
B.	Maximum Organ Dose						
	1. Total	mrem	0	0	0	0	0
	2. Percent of Technical Specification Limit		0.00%	0.00%	0.00%	0.00%	0.00

SUPPLEMENTAL INFORMATION

A. Unplanned Releases:

None

B. NPPD Initiated Changes to the Process Control Program:

None

C. Changes to the Offsite Dose Assessment Manual:

None

D. Reports Required by the Offsite Dose Assessment Manual:

The following information is being reported per the requirements of ODAM Specification D3.3.2, Condition I, Required Action I.2.2. This information describes conditions in which particulate and iodine sampling via auxiliary sampling equipment as required by ODAM Specification D3.3.2, Condition I, Required Action I.1, was out of service.

At 1530 on January 23, 2005, power was removed from the Turbine Building normal range effluent monitor/sampler and the auxiliary sampling system in preparation for electrical bus maintenance. During the time period of 1530 on January 23, 2005 through 2140 on January 24, 2005, when power was restored, particulate and iodine sampling via the auxiliary sampling system was not performed as required by the ODAM.

At 1920 on January 23, 2005, power was removed from the Augmented Radwaste Building normal range effluent monitor/sampler and the auxiliary sampling system in preparation for electrical bus maintenance. During the time period of 1920 on January 23, 2005 through 2140 on January 24, 2005, when power was restored, particulate and iodine sampling via the auxiliary sampling system was not performed as required by the ODAM.

At 2217 on January 30, 2005, Reactor Building ventilation, which had been out of service due to sequential load testing, was returned to service. Due to electrical supply issues neither the normal range sampling system nor the auxiliary sampling system could be placed in service within the allowed time frame of four hours. During the time period of 2217 on January 30, 2005 until 0330 on February 1, 2005, when the auxiliary sampling system was placed in service, particulate and iodine sampling via the auxiliary sampling system was not performed as required by the ODAM.

APPENDIX B

METEOROLOGY

CONTENTS

	Page
METEOROLOGICAL DATA SUMMARIES	B1
MONTHLY SUMMARY TABLES OF HOURLY METEOROLOGICAL DATA	B6
JOINT FREQUENCY DISTRIBUTION TABLES	B130
ATMOSPHERIC DIFFUSION ESTIMATES	B239
ATMOSPHERIC DIFFUSION MODEL	B324

METEOROLOGICAL DATA SUMMARIES

Meteorological data collected onsite for the period January 1, 2005, through December 31, 2005, were reduced, validated, summarized for analysis, and included in appropriate dose calculations. Hourly data summaries are provided for all pertinent parameters and for the joint frequency distributions (JFD's) of wind speed and wind direction by atmospheric stability class.

DATA RECOVERY

Data recovery statistics are provided in Table 1 for all pertinent meteorological parameters. Average data recovery for all parameters in 2005 was approximately 98%.

		Lowest Data Recovery	Average Data Recovery
January 1 - March 31, 2005	(Q1)	97.3%	97.3%
April 1 - June 30, 2005	(Q2)	98.0%	98.0%
First Semiannual Period - January 1 - June 30, 2005	(SEM1)	97.6%	97.6%
July 1 - September 30, 2005	(Q3)	95.2%	96.2%
October 1 - December 31, 2005	(Q4)	99.5%	99.9%
Second Semiannual Period - July 1 - December 31, 2005	(SEM2)	97.3%	98.1%
Annual Period - January 1 - December 31, 2005	(ANN)	97.5%	97.9%

WIND AT 100-METER LEVEL AND 10-METER LEVEL

	Predominant Wind Direction at 100m Level		Predominant Wind Direction at 10m Level	
Q1	North	13.7%	North	13.6%
Q2	South	18.9%	South	18.7%
SEM1	South	13.4%	South	15.2%
Q3	South	23.8%	South	24.2%
Q4	South	12.8%	South	13.5%
SEM2	South	18.2%	South	18.8%
ANN	South	15.8%	South	17.0%

	Mean Wind Speed at 100m Level	Mean Wind Speed at 10m Level
Q1	13.1 MPH	7.8 MPH
Q2	15.1 MPH	9.0 MPH
SEM1	14.1 MPH	8.4 MPH
Q3	12.1 MPH	6.4 MPH
Q4	14.7 MPH	8.6 MPH
SEM2	13.4 MPH	7.5 MPH
ANN	13.8 MPH	8.0 MPH

	Maximum Hourly Average Wind Speed/(Date at 100m Level)	Maximum Hourly Average Wind Speed/(Date at 10m Level)
Q1	48.2 MPH/(05/02/08)	34.1 MPH/(05/03/10)
Q2	37.1 MPH/(05/05/17)	25.8 MPH/(05/04/22)
SEM1	48.2 MPH/(05/02/08)	34.1 MPH/(05/03/10)
Q3	32.2 MPH/(05/08/28)	20.5 MPH/(05/08/28)
Q4	39.6 MPH/(05/11/15)	29.7 MPH/(05/11/12)
SEM2	39.6 MPH/(05/11/15)	29.7 MPH/(05/11/12)
ANN	48.2 MPH/(05/02/08)	34.1 MPH/(05/03/10)

TEMPERATURE AT 10-METER LEVEL

	Mean Hourly Average Temperature	Average Daily Maximum	Average Daily Minimum
Q1	34.1 Degrees F	43.0 Degrees F	25.8 Degrees F
Q2	66.0 Degrees F	75.2 Degrees F	56.3 Degrees F
SEM1	50.2 Degrees F	59.4 Degrees F	41.3 Degrees F
Q3	76.0 Degrees F	85.4 Degrees F	66.3 Degrees F
Q4	43.1 Degrees F	52.6 Degrees F	33.9 Degrees F
SEM2	59.2 Degrees F	68.8 Degrees F	50.0 Degrees F
ANN	54.8 Degrees F	64.1 Degrees F	45.7 Degrees F

	Maximum Temperature (Date)	Minimum Temperature (Date)
Q1	74.5 Degrees F (05/03/29)	-4.4 Degrees F (05/01/16)
Q2	96.1 Degrees F (05/06/27)	28.6 Degrees F (05/04/02)
SEM1	96.1 Degrees F (05/06/27)	-4.4 Degrees F (05/01/16)
Q3	100.6 Degrees F (05/07/23)	47.8 Degrees F (05/09/16)
Q4	90.8 Degrees F (05/10/02)	-2.2 Degrees F (05/12/06)
SEM2	100.6 Degrees F (05/07/23)	-2.2 Degrees F (05/12/06)
ANN	100.6 Degrees F (05/07/23)	-4.4 Degrees F (05/01/16)

PRECIPITATION

	Total Precipitation	Maximum Daily Precipitation Total/(Date)	Maximum Hourly Precipitation Total/(Date)
Q1	3.54 Inches	1.08 Inches (05/02/12)	0.18 Inches (05/02/12)
Q2	12.82 Inches	1.69 Inches (05/05/31)	0.94 Inches (05/06/09)
SEM1	16.36 Inches	1.69 Inches (05/05/31)	0.94 Inches (05/06/09)
Q3	9.35 Inches	3.03 Inches (05/07/26)	1.01 Inches (05/07/18)
Q4	3.07 Inches	0.64 Inches (05/11/15)	0.32 Inches (05/10/20)
SEM2	12.42 Inches	3.03 Inches (05/07/26)	1.01 Inches (05/07/18)
ANN	28.78 Inches	3.03 Inches (05/07/26)	1.01 Inches (05/07/18)

ATMOSPHERIC STABILITY

Atmospheric stability is determined through classification of differential temperature data based on JFD of the 100-meter wind and the delta T (100m - 10m) stability data.

	Unstable Conditions Classes A-C	Neutral Conditions Class D	Stable Conditions Classes E-G
Q1	4%	59%	37%
Q2	15%	49%	36%
SEM1	10%	54%	36%
Q3	15%	36%	48%
Q4	5%	52%	43%
SEM2	10%	45%	46%
ANN	10%	49%	41%

TABLE 1. Meteorological Data Recovery

Data Recovery (% of total Observations)

	January-March 2005	April-June 2005	January-June 2005	July-Sept. 2005	October-Dec. 2005	July-Dec. 2005	January-Dec. 2005
100m wind speed	97.3	98.0	97.6	96.3	100.0	98.2	97.9
100m wind direction	97.3	98.0	97.6	96.3	100.0	98.2	97.9
100m ambient temperature	97.3	98.0	97.6	96.3	100.0	98.2	97.9
60m wind speed	97.3	98.0	97.6	96.3	100.0	98.2	97.9
60m wind direction	97.3	98.0	97.6	96.3	100.0	98.2	97.9
60m ambient temperature	97.3	98.0	97.6	96.3	100.0	98.2	97.9
10m wind speed	97.3	98.0	97.6	96.3	100.0	98.2	97.9
10m wind direction	97.3	98.0	97.6	96.3	100.0	98.2	97.9
10m ambient temperature	97.3	98.0	97.6	96.3	100.0	98.2	97.9
10m dew point	97.3	98.0	97.6	95.2	99.5	97.3	97.5
100m-10m delta T	97.3	98.0	97.6	96.3	100.0	98.2	97.9
100m-60m delta T	97.3	98.0	97.6	96.3	100.0	98.2	97.9
60m-10m delta T	97.3	98.0	97.6	96.3	100.0	98.2	97.9
100m JFD	97.3	98.0	97.6	96.3	100.0	98.2	97.9
10m JFD	97.3	98.0	97.6	96.3	100.0	98.2	97.9

JFD - Joint Frequency Distribution of wind speed, wind direction and atmospheric stability.

MONTHLY SUMMARY TABLES OF HOURLY METEOROLOGICAL DATA

The tables presented in this section provide a summary of hourly averages of measured meteorological parameters. The tables provide summaries by month for the annual period January through December, 2005. Summaries for the first quarter, second quarter, third quarter, fourth quarter, and semiannual periods are also provided. The parameters provided are listed below.

* 10 meter ambient temperature.
* Wind direction frequencies at 10 meters and 100 meters.
* Precipitation.

Any missing or non-measured data are indicated by a field of 9's.

10-Meter Ambient Temperature

and

10-Meter Dew Point Temperature

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

JANUARY

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	31	23.5	31	16.4	31	74.5	31	2.8	31	21.4
2	31	23.3	31	16.2	31	74.3	31	2.8	31	21.3
3	31	23.1	31	16.0	31	74.3	31	2.8	31	21.0
4	31	22.7	31	15.8	31	74.8	31	2.8	31	20.7
5	31	22.3	31	15.5	31	75.2	31	2.8	31	20.4
6	31	22.0	31	15.5	31	75.8	31	2.8	31	20.1
7	31	21.6	31	15.1	31	75.9	31	2.7	31	19.8
8	31	21.4	31	15.0	31	76.0	31	2.7	31	19.6
9	31	21.5	31	15.0	31	75.9	31	2.7	31	19.7
10	31	22.3	31	15.6	31	75.3	31	2.8	31	20.4
11	31	23.8	31	16.5	31	73.6	31	2.9	31	21.6
12	31	25.4	31	17.5	31	72.1	31	3.0	31	23.0
13	31	26.4	31	18.1	31	71.0	31	3.1	31	23.8
14	31	27.5	31	18.9	31	70.5	31	3.2	31	24.7
15	31	28.4	31	19.4	31	69.6	31	3.2	31	25.4
16	31	29.0	31	19.8	31	69.2	31	3.3	31	25.9
17	31	28.9	31	19.8	31	69.2	31	3.3	31	25.9
18	31	28.2	31	19.4	31	70.0	31	3.3	31	25.3
19	31	27.6	31	19.4	31	71.3	31	3.3	31	25.0
20	31	27.0	31	19.2	31	72.5	31	3.2	31	24.5
21	31	26.0	31	18.4	31	73.1	31	3.1	31	23.6
22	31	25.1	31	17.8	31	73.6	31	3.0	31	22.9
23	31	24.6	31	17.3	31	73.7	31	2.9	31	22.4
24	31	23.9	31	17.0	31	74.7	31	2.9	31	21.9
HOURLY MEAN		24.8		17.3		73.2		3.0		22.5
AVG DAILY MAX		31.6		23.3		81.4		3.8		28.5
AVG DAILY MIN		18.5		11.1		63.9		2.3		16.7
ABSOLUTE MAX		60.0		53.3		89.3		10.4		56.3
ABSOLUTE MIN		-4.4		-12.2		45.5		.7		-5.2
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

FEBRUARY

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	28	34.2	28	25.6	28	70.9	28	3.9	28	31.1
2	28	33.6	28	25.4	28	72.1	28	3.9	28	30.6
3	28	33.0	28	25.2	28	73.2	28	3.8	28	30.1
4	28	32.2	28	24.9	28	74.5	28	3.8	28	29.6
5	28	31.5	28	24.7	28	75.8	28	3.8	28	29.1
6	28	30.9	28	24.3	28	76.4	28	3.8	28	28.6
7	28	30.4	28	24.1	28	77.0	28	3.7	28	28.2
8	28	30.2	28	24.0	28	77.4	28	3.7	28	28.1
9	28	31.1	28	24.4	28	76.3	28	3.8	28	28.8
10	28	33.4	28	25.6	28	73.3	28	4.0	28	30.6
11	28	35.9	28	26.5	28	69.2	28	4.1	28	32.4
12	28	38.3	28	27.0	28	65.0	28	4.2	28	34.0
13	28	40.0	28	27.2	28	62.0	28	4.2	28	35.0
14	28	41.5	28	27.4	28	59.5	28	4.2	28	35.9
15	28	42.7	28	27.3	28	57.2	28	4.2	28	36.5
16	28	43.2	28	27.0	28	55.7	28	4.1	28	36.7
17	28	43.0	28	26.8	28	55.6	28	4.1	28	36.5
18	28	41.9	28	26.4	28	56.6	28	4.0	28	35.8
19	28	40.1	28	26.1	28	59.4	28	3.9	28	34.7
20	28	38.4	28	26.0	28	62.6	28	3.9	28	33.6
21	28	37.1	28	25.8	28	64.6	28	3.9	28	32.8
22	28	36.0	28	25.6	28	66.7	28	3.9	28	32.1
23	28	35.4	28	25.3	28	67.2	28	3.9	28	31.6
24	28	34.5	28	25.1	28	68.8	28	3.8	28	31.0
HOURLY MEAN		36.2		25.7		67.4		3.9		32.2
AVG DAILY MAX		44.5		30.5		81.1		4.7		38.0
AVG DAILY MIN		28.1		20.4		51.0		3.2		25.8
ABSOLUTE MAX		64.5		45.3		90.8		7.9		52.1
ABSOLUTE MIN		7.8		2.5		27.0		1.4		6.7
TOTAL OBS		672		672		672		672		672

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

MARCH

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	29	38.7	29	24.6	29	58.5	29	3.7	29	33.4
2	29	37.4	29	24.4	29	60.7	29	3.6	29	32.5
3	29	36.4	29	24.4	29	63.0	29	3.6	29	31.9
4	29	35.2	29	24.2	29	65.1	29	3.6	29	31.2
5	29	34.2	29	24.2	29	67.2	29	3.6	29	30.5
6	29	33.9	29	24.1	29	68.1	29	3.6	29	30.3
7	29	33.3	29	23.8	29	68.6	29	3.6	29	29.8
8	29	33.9	29	24.3	29	68.5	29	3.7	29	30.4
9	29	36.7	29	25.7	29	65.1	29	3.8	29	32.5
10	29	40.3	29	26.5	29	59.0	29	4.0	29	34.8
11	29	43.8	29	26.4	29	51.8	29	3.9	29	36.8
12	29	46.7	29	25.8	29	46.3	29	3.8	29	38.2
13	29	48.8	29	25.2	29	42.2	29	3.7	29	39.2
14	28	49.3	28	24.2	28	40.1	28	3.5	28	39.2
15	28	50.4	28	24.4	28	38.8	28	3.5	28	39.8
16	28	50.8	28	24.7	28	38.8	28	3.6	28	40.2
17	28	50.9	28	25.0	28	39.5	28	3.6	28	40.3
18	28	50.2	28	24.8	28	40.1	28	3.6	28	39.9
19	28	48.1	28	24.5	28	42.4	28	3.6	28	38.7
20	28	46.0	28	24.7	28	45.6	28	3.6	28	37.6
21	28	44.4	28	24.6	28	48.1	28	3.7	28	36.7
22	28	43.2	28	24.7	28	50.0	28	3.7	28	36.1
23	28	41.9	28	24.9	28	52.6	28	3.7	28	35.4
24	28	40.6	28	25.1	28	55.6	28	3.7	28	34.7
HOURLY MEAN		42.2		24.8		53.3		3.7		35.4
AVG DAILY MAX		53.6		30.3		72.8		4.5		42.0
AVG DAILY MIN		31.5		20.9		35.0		3.1		28.4
ABSOLUTE MAX		74.5		46.6		88.4		8.1		58.1
ABSOLUTE MIN		16.0		7.2		18.1		1.7		14.2
TOTAL OBS		685		685		685		685		685

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

JAN-MAR HOUR AVERAGES

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	117	37.2	117	26.2	117	65.7	117	4.2	117	32.9
2	117	36.5	117	25.9	117	66.9	117	4.2	117	32.4
3	117	35.8	117	25.8	117	68.2	117	4.2	117	32.0
4	117	34.9	117	25.6	117	69.6	117	4.1	117	31.4
5	117	34.1	117	25.5	117	71.3	117	4.1	117	30.8
6	117	33.6	117	25.3	117	72.2	117	4.1	117	30.5
7	117	33.3	117	25.1	117	72.5	117	4.1	117	30.2
8	116	33.6	116	25.3	116	72.2	116	4.1	116	30.5
9	116	35.2	116	26.0	116	70.1	116	4.3	116	31.6
10	116	37.5	116	26.6	116	66.6	116	4.4	116	33.2
11	116	39.9	116	27.0	116	62.3	116	4.4	116	34.7
12	116	42.1	116	27.3	116	58.6	116	4.4	116	36.0
13	117	43.9	117	27.2	117	55.5	117	4.4	117	36.9
14	116	44.9	116	27.1	116	53.7	116	4.4	116	37.5
15	116	45.9	116	27.2	116	52.4	116	4.3	116	38.0
16	117	46.6	117	27.4	117	51.6	117	4.4	117	38.4
17	117	46.5	117	27.2	117	51.7	117	4.3	117	38.3
18	117	45.7	117	27.0	117	52.6	117	4.3	117	37.9
19	117	44.2	117	26.9	117	54.6	117	4.3	117	37.1
20	117	42.6	117	27.0	117	57.3	117	4.3	117	36.2
21	117	41.1	117	26.8	117	59.5	117	4.3	117	35.4
22	117	40.0	117	26.6	117	61.0	117	4.3	117	34.6
23	117	39.1	117	26.4	117	62.2	117	4.2	117	34.1
24	117	38.1	117	26.2	117	64.0	117	4.2	117	33.5
HOURLY MEAN		39.7		26.4		62.2		4.3		34.3
AVG DAILY MAX		48.8		31.7		76.7		5.2		40.3
AVG DAILY MIN		31.5		21.6		47.0		3.5		28.4
ABSOLUTE MAX		82.6		62.0		100.0		14.0		66.6
ABSOLUTE MIN		-4.4		-12.2		15.7		.7		-5.2
TOTAL OBS		2801		2801		2801		2801		2801

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

APRIL

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	28	53.6	28	39.1	28	58.9	28	6.6	28	46.9
2	28	52.5	28	38.9	28	60.8	28	6.6	28	46.3
3	28	51.6	28	39.0	28	62.9	28	6.6	28	45.8
4	28	50.6	28	38.7	28	64.3	28	6.5	28	45.1
5	28	49.4	28	38.7	28	67.3	28	6.5	28	44.5
6	28	48.6	28	38.7	28	69.0	28	6.5	28	44.1
7	28	48.8	28	38.8	28	68.9	28	6.6	28	44.2
8	27	50.4	27	39.9	27	67.5	27	6.8	27	45.5
9	27	53.2	27	40.7	27	63.4	27	7.0	27	47.3
10	27	55.8	27	40.9	27	59.1	27	7.1	27	48.8
11	27	58.1	27	40.7	27	54.6	27	7.1	27	49.8
12	27	60.1	27	40.6	27	50.8	27	7.1	27	50.7
13	28	61.7	28	39.4	28	46.6	28	6.8	28	51.0
14	28	63.2	28	39.1	28	43.9	28	6.7	28	51.5
15	28	63.8	28	38.7	28	42.8	28	6.6	28	51.7
16	29	64.3	29	38.6	29	41.9	29	6.6	29	51.8
17	29	64.1	29	37.9	29	41.6	29	6.4	29	51.5
18	29	63.5	29	38.1	29	42.8	29	6.5	29	51.3
19	29	62.1	29	38.4	29	44.9	29	6.6	29	50.9
20	29	59.9	29	38.8	29	48.3	29	6.6	29	50.0
21	29	57.9	29	39.2	29	52.0	29	6.7	29	49.1
22	29	56.5	29	39.0	29	53.7	29	6.6	29	48.3
23	29	55.3	29	38.8	29	55.3	29	6.6	29	47.6
24	29	54.3	29	38.6	29	56.8	29	6.6	29	47.1
HOURLY MEAN		56.7		39.1		54.8		6.7		48.4
AVG DAILY MAX		66.0		43.3		72.3		7.7		53.0
AVG DAILY MIN		47.9		34.3		37.9		5.6		42.8
ABSOLUTE MAX		82.6		62.0		100.0		14.0		66.6
ABSOLUTE MIN		28.6		11.6		15.7		1.9		25.5
TOTAL OBS		676		676		676		676		676

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

MAY

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	31	59.1	31	44.6	31	59.5	31	7.9	31	51.8
2	31	58.0	31	44.2	31	61.0	31	7.9	31	51.1
3	31	56.9	31	44.0	31	62.9	31	7.8	31	50.5
4	31	56.2	31	43.9	31	64.1	31	7.8	31	50.1
5	31	55.4	31	43.8	31	65.4	31	7.7	31	49.7
6	31	55.3	31	43.8	31	65.7	31	7.7	31	49.6
7	31	56.6	31	44.5	31	64.4	31	7.9	31	50.6
8	31	59.6	31	45.4	31	60.0	31	8.1	31	52.4
9	31	62.8	31	46.1	31	55.3	31	8.3	31	54.1
10	31	65.3	31	46.1	31	51.3	31	8.3	31	55.2
11	31	67.3	31	45.8	31	47.8	31	8.3	31	55.9
12	31	69.3	31	45.9	31	44.9	31	8.3	31	56.8
13	31	71.0	31	46.2	31	43.0	31	8.4	31	57.6
14	31	72.5	31	46.4	31	41.3	31	8.4	31	58.3
15	31	73.3	31	46.3	31	40.0	31	8.4	31	58.6
16	31	73.4	31	46.4	31	40.3	31	8.5	31	58.8
17	31	72.8	31	46.3	31	41.5	31	8.4	31	58.5
18	31	72.2	31	45.7	31	41.5	31	8.3	31	58.0
19	31	70.8	31	45.6	31	43.1	31	8.2	31	57.4
20	31	68.2	31	45.4	31	46.4	31	8.1	31	56.1
21	31	65.5	31	45.9	31	51.3	31	8.3	31	55.2
22	31	63.7	31	46.2	31	54.8	31	8.4	31	54.6
23	31	62.0	31	46.5	31	58.0	31	8.5	31	54.0
24	31	60.6	31	46.3	31	60.5	31	8.5	31	53.2
HOURLY MEAN		64.5		45.5		52.7		8.2		54.5
AVG DAILY MAX		74.8		50.6		71.1		9.8		59.7
AVG DAILY MIN		53.7		40.2		36.6		6.7		48.3
ABSOLUTE MAX		90.0		65.7		85.0		15.7		71.7
ABSOLUTE MIN		35.8		18.2		18.4		2.6		30.5
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

JUNE

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	30	71.8	30	60.1	30	67.2	30	13.2	30	64.7
2	30	70.8	30	59.9	30	68.7	30	13.1	30	64.1
3	30	69.9	30	59.7	30	70.5	30	13.0	30	63.7
4	30	69.2	30	59.2	30	70.9	30	12.8	30	63.2
5	30	68.5	30	58.9	30	71.8	30	12.7	30	62.7
6	30	68.3	30	59.0	30	72.6	30	12.7	30	62.7
7	30	69.3	30	59.7	30	71.9	30	13.0	30	63.5
8	30	71.7	30	60.6	30	68.5	30	13.4	30	64.8
9	30	74.2	30	61.0	30	64.3	30	13.6	30	66.0
10	30	76.3	30	61.3	30	60.7	30	13.6	30	66.9
11	30	78.1	30	61.2	30	57.3	30	13.6	30	67.5
12	30	80.0	30	61.3	30	54.0	30	13.5	30	68.2
13	30	81.5	30	61.5	30	52.1	30	13.6	30	68.7
14	30	82.8	30	61.5	30	50.0	30	13.6	30	69.2
15	30	84.0	30	61.5	30	48.2	30	13.5	30	69.5
16	30	84.4	30	61.7	30	47.7	30	13.6	30	69.8
17	30	84.3	30	61.6	30	47.7	30	13.6	30	69.7
18	30	83.3	30	61.7	30	49.4	30	13.7	30	69.5
19	30	82.0	30	62.0	30	52.2	30	13.9	30	69.2
20	30	79.8	30	62.4	30	56.4	30	14.1	30	68.7
21	30	77.1	30	62.3	30	61.3	30	14.1	30	67.8
22	30	75.4	30	62.2	30	64.4	30	14.1	30	67.1
23	30	74.3	30	61.7	30	65.4	30	13.9	30	66.4
24	30	73.1	30	60.8	30	66.1	30	13.5	30	65.5
HOURLY MEAN		76.3		61.0		60.8		13.5		66.6
AVG DAILY MAX		84.9		64.1		75.7		15.0		70.3
AVG DAILY MIN		67.5		57.4		45.5		11.9		62.1
ABSOLUTE MAX		96.1		70.2		84.2		18.3		75.1
ABSOLUTE MIN		59.8		49.8		33.9		8.8		55.3
TOTAL OBS		720		720		720		720		720

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

APR-JUN HOUR AVERAGES

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	89	61.7	89	48.1	89	61.9	89	9.3	89	54.6
2	89	60.6	89	47.8	89	63.5	89	9.2	89	54.0
3	89	59.6	89	47.8	89	65.5	89	9.2	89	53.5
4	89	58.8	89	47.4	89	66.5	89	9.1	89	52.9
5	89	57.9	89	47.3	89	68.1	89	9.0	89	52.4
6	89	57.6	89	47.3	89	69.1	89	9.0	89	52.3
7	89	58.4	89	47.8	89	68.3	89	9.2	89	52.9
8	88	60.9	88	48.9	88	65.2	88	9.5	88	54.5
9	88	63.7	88	49.5	88	60.8	88	9.7	88	56.1
10	88	66.1	88	49.7	88	56.9	88	9.7	88	57.2
11	88	68.1	88	49.5	88	53.1	88	9.7	88	58.0
12	88	70.2	88	49.5	88	49.8	88	9.7	88	58.8
13	89	71.6	89	49.2	89	47.2	89	9.7	89	59.3
14	89	73.0	89	49.2	89	45.1	89	9.6	89	59.9
15	89	73.9	89	49.0	89	43.6	89	9.6	89	60.1
16	90	74.2	90	49.0	90	43.3	90	9.6	90	60.2
17	90	73.8	90	48.7	90	43.6	90	9.5	90	60.0
18	90	73.1	90	48.6	90	44.6	90	9.5	90	59.7
19	90	71.7	90	48.8	90	46.7	90	9.6	90	59.2
20	90	69.4	90	48.9	90	50.4	90	9.6	90	58.3
21	90	66.9	90	49.2	90	54.8	90	9.7	90	57.4
22	90	65.3	90	49.2	90	57.6	90	9.7	90	56.7
23	90	64.0	90	49.1	90	59.6	90	9.7	90	56.1
24	90	62.7	90	48.7	90	61.2	90	9.5	90	55.4
HOURLY MEAN		66.0		48.7		56.1		9.5		56.7
AVG DAILY MAX		75.2		52.6		73.0		10.8		61.0
AVG DAILY MIN		56.3		43.9		40.0		8.0		51.0
ABSOLUTE MAX		96.1		70.2		100.0		18.3		75.1
ABSOLUTE MIN		28.6		11.6		15.7		1.9		25.5
TOTAL OBS		2140		2140		2140		2140		2140

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

JAN-JUN HOUR AVERAGES

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	177	46.9	177	35.1	177	65.0	177	6.4	177	41.6
2	177	46.0	177	34.9	177	66.3	177	6.3	177	41.0
3	177	45.2	177	34.8	177	67.8	177	6.3	177	40.6
4	177	44.4	177	34.5	177	69.0	177	6.2	177	40.0
5	177	43.6	177	34.4	177	70.5	177	6.2	177	39.5
6	177	43.2	177	34.3	177	71.3	177	6.2	177	39.3
7	177	43.4	177	34.4	177	71.1	177	6.3	177	39.4
8	176	44.6	176	34.9	176	69.6	176	6.4	176	40.2
9	176	46.6	176	35.5	176	66.7	176	6.6	176	41.4
10	176	48.9	176	36.0	176	63.1	176	6.6	176	42.8
11	176	51.2	176	36.2	176	59.1	176	6.7	176	44.0
12	176	53.3	176	36.4	176	55.6	176	6.7	176	45.2
13	177	55.0	177	36.4	177	52.9	177	6.7	177	46.0
14	176	56.2	176	36.4	176	51.0	176	6.7	176	46.6
15	176	57.2	176	36.4	176	49.6	176	6.6	176	47.0
16	177	57.7	177	36.5	177	49.1	177	6.7	177	47.3
17	177	57.5	177	36.4	177	49.3	177	6.6	177	47.2
18	177	56.7	177	36.2	177	50.2	177	6.6	177	46.8
19	177	55.3	177	36.2	177	52.3	177	6.6	177	46.1
20	177	53.4	177	36.3	177	55.4	177	6.7	177	45.2
21	177	51.4	177	36.2	177	58.5	177	6.7	177	44.3
22	177	50.1	177	36.1	177	60.7	177	6.7	177	43.6
23	177	49.1	177	35.9	177	62.2	177	6.6	177	43.1
24	177	48.0	177	35.7	177	63.9	177	6.5	177	42.4
HOURLY MEAN		50.2		35.7		60.4		6.5		43.4
AVG DAILY MAX		59.4		40.5		75.7		7.6		48.7
AVG DAILY MIN		41.3		30.8		45.0		5.5		37.5
ABSOLUTE MAX		96.1		70.2		100.0		18.3		75.1
ABSOLUTE MIN		-4.4		-12.2		15.7		.7		-5.2
TOTAL OBS		4241		4241		4241		4241		4241

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

JULY

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	73.3	31	62.4	31	69.1	31	14.3	31	66.5
2	31	72.5	31	61.9	31	69.8	31	14.1	31	65.9
3	31	71.7	31	61.7	31	71.1	31	14.0	31	65.5
4	31	71.1	31	61.4	31	72.0	31	13.9	31	65.1
5	31	70.4	31	61.2	31	73.0	31	13.8	31	64.8
6	31	69.9	31	61.3	31	74.6	31	13.8	31	64.6
7	31	71.2	31	62.2	31	73.6	31	14.2	31	65.6
8	31	74.0	31	63.1	31	69.2	31	14.6	31	67.1
9	31	76.9	31	64.0	31	64.8	31	15.0	31	68.7
10	31	79.9	31	64.6	31	60.0	31	15.2	31	70.0
11	31	82.1	31	64.8	31	56.4	31	15.3	31	70.8
12	31	84.0	31	64.3	31	52.4	31	15.0	31	71.1
13	31	85.2	31	64.0	31	50.0	31	14.8	31	71.3
14	31	86.4	31	63.9	31	47.8	31	14.7	31	71.6
15	31	87.4	31	63.8	31	46.2	31	14.6	31	71.8
16	31	87.8	31	63.8	31	45.7	31	14.7	31	72.0
17	31	87.3	31	63.7	31	46.1	31	14.6	31	71.8
18	31	86.5	31	64.0	31	47.8	31	14.8	31	71.7
19	31	84.9	31	64.3	31	50.7	31	15.0	31	71.4
20	31	82.1	31	64.4	31	55.7	31	15.1	31	70.6
21	31	79.0	31	64.0	31	60.5	31	15.0	31	69.3
22	31	77.3	31	63.6	31	63.1	31	14.8	31	68.6
23	31	76.0	31	63.1	31	64.8	31	14.6	31	67.8
24	31	74.6	31	62.8	31	67.0	31	14.4	31	67.1
HOURLY MEAN		78.8		63.3		60.5		14.6		68.8
AVG DAILY MAX		88.2		66.7		77.5		16.3		72.9
AVG DAILY MIN		69.2		59.8		44.1		13.0		63.9
ABSOLUTE MAX		100.6		78.5		85.5		23.5		82.5
ABSOLUTE MIN		55.7		47.4		34.6		8.4		51.7
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

AUGUST

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	31	72.0	30	63.3	30	75.3	30	14.7	30	66.4
2	31	71.1	30	63.1	30	77.3	30	14.7	30	66.0
3	31	70.4	30	62.7	30	78.0	30	14.5	30	65.5
4	31	69.7	30	62.1	30	78.3	30	14.2	30	64.9
5	31	68.9	30	61.4	30	78.2	30	13.9	30	64.2
6	31	68.2	30	60.9	30	78.8	30	13.7	30	63.7
7	31	68.1	30	61.5	30	80.4	30	13.9	30	64.0
8	31	70.0	29	63.0	29	79.3	29	14.7	29	65.5
9	31	72.8	30	64.5	30	76.0	30	15.4	30	67.5
10	31	76.0	30	65.3	30	70.8	30	15.7	30	69.0
11	31	78.6	30	65.8	30	66.3	30	15.9	30	70.1
12	31	80.5	30	65.8	30	62.3	30	15.8	30	70.7
13	31	82.0	30	65.4	30	59.1	30	15.6	30	71.0
14	31	82.9	30	65.7	30	57.9	30	15.7	30	71.4
15	31	83.5	30	65.7	30	57.2	30	15.7	30	71.6
16	31	83.6	30	65.9	30	57.3	30	15.8	30	71.8
17	31	83.1	30	65.2	30	56.7	30	15.5	30	71.3
18	31	82.2	30	65.2	30	58.0	30	15.5	30	71.0
19	31	80.0	30	65.7	30	63.2	30	15.8	30	70.5
20	31	77.3	30	65.3	30	67.7	30	15.7	30	69.4
21	31	75.5	30	64.6	30	70.2	30	15.4	30	68.4
22	31	74.1	30	64.0	30	71.8	30	15.0	30	67.6
23	31	73.0	30	63.7	30	73.9	30	15.0	30	67.1
24	31	72.5	30	63.3	30	74.3	30	14.8	30	66.6
HOURLY MEAN		75.7		64.1		69.5		15.1		68.1
AVG DAILY MAX		84.7		68.7		83.4		17.5		72.8
AVG DAILY MIN		67.0		59.2		52.8		12.8		62.8
ABSOLUTE MAX		95.3		75.6		100.0		22.3		78.8
ABSOLUTE MIN		56.0		49.7		36.6		9.0		54.6
TOTAL OBS		744		719		719		719		719

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

SEPTEMBER

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	27	68.3	27	56.9	27	67.5	27	12.0	27	61.6
2	27	67.4	27	56.6	27	68.9	27	11.9	27	61.1
3	27	66.4	27	56.1	27	70.1	27	11.7	27	60.4
4	27	65.4	27	55.8	27	71.6	27	11.5	27	59.8
5	27	64.9	27	55.6	27	72.3	27	11.5	27	59.6
6	27	64.4	27	55.5	27	73.2	27	11.4	27	59.3
7	27	64.2	27	55.7	27	74.2	27	11.6	27	59.4
8	27	65.9	27	56.8	27	72.8	27	12.0	27	60.6
9	26	69.6	26	58.4	26	68.3	26	12.6	26	62.9
10	26	73.2	26	59.2	26	62.6	26	12.9	26	64.7
11	26	76.6	26	59.2	26	55.9	26	12.8	26	65.9
12	26	79.4	26	58.8	26	50.5	26	12.5	26	66.7
13	26	81.1	26	58.6	26	47.8	26	12.4	26	67.1
14	26	82.6	26	58.3	26	45.1	26	12.2	26	67.5
15	26	83.5	26	58.2	26	43.6	26	12.2	26	67.7
16	26	83.4	26	58.4	26	43.8	26	12.3	26	67.8
17	26	82.7	26	58.7	26	45.2	26	12.4	26	67.7
18	27	80.6	27	57.9	27	46.9	27	12.2	27	66.7
19	27	77.7	27	58.2	27	51.7	27	12.4	27	65.8
20	27	74.9	27	58.3	27	56.8	27	12.5	27	64.8
21	27	73.1	27	58.1	27	59.8	27	12.4	27	64.1
22	27	71.5	27	58.0	27	63.1	27	12.4	27	63.4
23	27	70.2	27	57.9	27	65.7	27	12.4	27	62.9
24	27	69.3	27	57.6	27	66.9	27	12.2	27	62.3
HOURLY MEAN		73.1		57.6		60.3		12.2		63.7
AVG DAILY MAX		83.0		61.0		76.8		13.7		67.6
AVG DAILY MIN		62.4		52.3		41.7		10.2		57.3
ABSOLUTE MAX		95.6		68.6		91.1		17.1		76.2
ABSOLUTE MIN		47.8		32.1		27.2		4.6		44.7
TOTAL OBS		639		639		639		639		639

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

JUL-SEP HOUR AVERAGES

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	89	71.4	88	61.0	88	70.7	88	13.7	88	65.0
2	89	70.5	88	60.7	88	72.1	88	13.6	88	64.4
3	89	69.6	88	60.3	88	73.2	88	13.4	88	63.9
4	89	68.9	88	59.9	88	74.0	88	13.3	88	63.4
5	89	68.2	88	59.5	88	74.6	88	13.1	88	63.0
6	89	67.6	88	59.4	88	75.6	88	13.0	88	62.7
7	89	68.0	88	60.0	88	76.1	88	13.3	88	63.1
8	89	70.2	87	61.1	87	73.7	87	13.8	87	64.6
9	88	73.3	87	62.5	87	69.7	87	14.4	87	66.5
10	88	76.6	87	63.2	87	64.5	87	14.7	87	68.1
11	88	79.2	87	63.5	87	59.6	87	14.7	87	69.1
12	88	81.4	87	63.2	87	55.3	87	14.5	87	69.6
13	88	82.8	87	62.9	87	52.5	87	14.4	87	69.9
14	88	84.0	87	62.8	87	50.5	87	14.3	87	70.3
15	88	84.9	87	62.8	87	49.2	87	14.3	87	70.5
16	88	85.0	87	62.9	87	49.1	87	14.4	87	70.7
17	88	84.5	87	62.7	87	49.5	87	14.3	87	70.4
18	89	83.2	88	62.5	88	51.0	88	14.3	88	69.9
19	89	81.0	88	62.9	88	55.3	88	14.5	88	69.4
20	89	78.2	88	62.8	88	60.1	88	14.5	88	68.4
21	89	76.0	88	62.4	88	63.6	88	14.3	88	67.4
22	89	74.4	88	62.0	88	66.0	88	14.2	88	66.7
23	89	73.2	88	61.7	88	68.2	88	14.0	88	66.1
24	89	72.2	88	61.4	88	69.4	88	13.9	88	65.5
HOURLY MEAN		76.0		61.8		63.5		14.0		67.0
AVG DAILY MAX		85.4		65.6		79.3		15.9		71.2
AVG DAILY MIN		66.3		57.2		46.3		12.0		61.5
ABSOLUTE MAX		100.6		78.5		100.0		23.5		82.5
ABSOLUTE MIN		47.8		32.1		27.2		4.6		44.7
TOTAL OBS		2127		2102		2102		2102		2102

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

OCTOBER

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	53.2	31	43.0	31	69.3	31	7.7	31	48.2
2	31	52.2	31	42.5	31	70.6	31	7.6	31	47.4
3	31	50.9	31	42.3	31	73.1	31	7.5	31	46.7
4	31	50.0	31	42.0	31	74.5	31	7.5	31	46.1
5	31	49.2	31	41.5	31	75.5	31	7.4	31	45.4
6	31	48.4	31	41.1	31	76.6	31	7.3	31	44.9
7	31	47.9	31	40.8	31	77.1	31	7.2	31	44.5
8	31	48.1	31	41.0	31	77.2	31	7.2	31	44.7
9	31	51.2	31	42.1	31	71.8	31	7.4	31	46.8
10	31	54.7	31	42.6	31	64.7	31	7.5	31	48.7
11	31	58.0	31	42.9	31	58.7	31	7.6	31	50.4
12	31	60.9	31	42.8	31	53.2	31	7.5	31	51.6
13	31	63.0	31	42.3	31	48.8	31	7.4	31	52.4
14	31	64.6	31	42.0	31	45.8	31	7.3	31	53.0
15	31	65.5	31	41.9	31	44.6	31	7.2	31	53.3
16	31	65.8	31	41.7	31	43.8	31	7.2	31	53.4
17	31	65.3	31	41.8	31	44.6	31	7.3	31	53.3
18	31	63.2	31	42.4	31	48.2	31	7.4	31	52.6
19	31	60.2	31	43.0	31	54.3	31	7.6	31	51.5
20	31	58.2	31	42.8	31	57.9	31	7.6	31	50.5
21	31	56.4	31	43.0	31	61.8	31	7.7	31	49.8
22	31	55.1	31	42.8	31	64.2	31	7.6	31	49.0
23	31	54.1	31	42.7	31	66.4	31	7.6	31	48.5
24	31	53.0	31	42.3	31	67.9	31	7.5	31	47.8
HOURLY MEAN		56.2		42.2		62.1		7.5		49.2
AVG DAILY MAX		67.3		46.5		81.4		8.7		54.7
AVG DAILY MIN		45.9		37.9		41.4		6.3		42.7
ABSOLUTE MAX		90.8		68.7		95.2		17.2		74.1
ABSOLUTE MIN		27.3		21.5		19.2		3.0		26.5
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

NOVEMBER

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	30	42.2	30	29.1	30	60.9	30	4.5	30	36.9
2	30	41.6	30	29.1	30	62.2	30	4.5	30	36.6
3	30	41.1	30	29.2	30	63.5	30	4.5	30	36.3
4	30	40.3	30	29.2	30	65.6	30	4.5	30	35.8
5	30	39.9	30	29.1	30	66.4	30	4.5	30	35.6
6	30	39.5	30	28.9	30	66.8	30	4.5	30	35.3
7	30	38.8	30	28.6	30	67.7	30	4.4	30	34.8
8	30	38.7	30	28.5	30	67.8	30	4.4	30	34.7
9	30	40.6	30	28.8	30	64.1	30	4.5	30	35.9
10	30	43.7	30	29.3	30	58.6	30	4.6	30	37.8
11	30	46.7	30	29.7	30	53.9	30	4.7	30	39.6
12	30	49.2	30	30.0	30	50.4	30	4.8	30	41.0
13	30	51.2	30	30.7	30	48.4	30	4.9	30	42.3
14	30	52.8	30	31.0	30	46.9	30	4.9	30	43.1
15	30	53.8	30	30.7	30	44.9	30	4.8	30	43.4
16	30	54.0	30	30.5	30	44.4	30	4.7	30	43.4
17	30	52.9	30	30.5	30	45.8	30	4.8	30	42.9
18	30	50.7	30	30.5	30	48.6	30	4.7	30	41.8
19	30	48.7	30	30.5	30	51.7	30	4.8	30	40.8
20	30	46.9	30	30.6	30	55.2	30	4.8	30	39.9
21	30	45.7	30	30.6	30	57.4	30	4.8	30	39.3
22	30	44.3	30	30.3	30	59.4	30	4.7	30	38.5
23	30	43.7	30	30.0	30	60.1	30	4.7	30	38.0
24	30	42.9	30	29.4	30	60.4	30	4.5	30	37.3
HOURLY MEAN		45.4		29.8		57.1		4.6		38.8
AVG DAILY MAX		56.1		36.0		75.2		5.8		45.7
AVG DAILY MIN		35.3		24.0		40.5		3.6		31.6
ABSOLUTE MAX		81.2		56.5		89.5		11.5		63.4
ABSOLUTE MIN		15.2		.6		17.1		1.2		13.7
TOTAL OBS		720		720		720		720		720

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

MONTHLY HOUR AVERAGES

DECEMBER

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	26.2	31	19.6	31	76.0	31	3.2	31	24.1
2	31	25.8	31	19.2	31	75.9	31	3.2	31	23.7
3	31	25.3	30	18.4	30	75.6	30	3.1	30	23.0
4	31	24.5	30	17.8	30	75.6	30	3.0	30	22.4
5	31	24.0	30	17.2	30	75.7	30	3.0	30	21.9
6	31	23.4	30	16.7	30	75.7	30	2.9	30	21.3
7	31	22.7	30	16.0	30	76.0	30	2.8	30	20.6
8	31	22.4	30	16.0	30	77.2	30	2.8	30	20.3
9	31	23.1	31	16.7	31	76.7	31	2.9	31	21.1
10	31	25.0	31	17.8	31	73.9	31	3.0	31	22.8
11	31	27.3	30	18.3	30	70.2	30	3.1	30	24.2
12	31	29.1	30	19.4	30	68.1	30	3.2	30	25.6
13	31	30.8	30	20.0	30	65.4	30	3.2	30	26.9
14	31	32.2	30	20.4	30	63.1	30	3.3	30	27.9
15	31	33.2	30	20.9	30	61.7	30	3.3	30	28.7
16	31	33.6	30	21.0	30	61.4	30	3.4	30	28.9
17	31	32.7	31	21.2	31	62.7	31	3.4	31	28.7
18	31	31.2	31	21.0	31	65.9	31	3.4	31	27.7
19	31	30.2	31	20.9	31	68.5	31	3.4	31	27.1
20	31	29.3	31	20.7	31	70.4	31	3.3	31	26.5
21	31	28.4	31	20.4	31	71.9	31	3.3	31	25.8
22	31	27.7	31	20.1	31	72.9	31	3.3	31	25.2
23	31	27.3	31	19.9	31	73.6	31	3.2	31	24.9
24	31	27.0	31	19.9	31	74.6	31	3.3	31	24.7
HOURLY MEAN		27.6		19.2		71.2		3.2		24.8
AVG DAILY MAX		34.4		24.1		81.9		3.8		30.2
AVG DAILY MIN		20.7		14.5		59.1		2.6		19.1
ABSOLUTE MAX		54.3		38.1		91.4		6.0		46.4
ABSOLUTE MIN		-2.2		-8.4		45.8		.9		-3.0
TOTAL OBS		744		732		732		732		732

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

OCT-DEC HOUR AVERAGES

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	92	40.5	92	30.6	92	68.8	92	5.1	92	36.4
2	92	39.8	92	30.3	92	69.6	92	5.1	92	35.9
3	92	39.1	91	30.1	91	70.8	91	5.1	91	35.5
4	92	38.2	91	29.8	91	71.9	91	5.0	91	34.9
5	92	37.6	91	29.4	91	72.6	91	5.0	91	34.4
6	92	37.1	91	29.0	91	73.1	91	4.9	91	34.0
7	92	36.5	91	28.6	91	73.7	91	4.9	91	33.4
8	92	36.4	91	28.7	91	74.1	91	4.9	91	33.4
9	92	38.3	92	29.2	92	71.0	92	5.0	92	34.6
10	92	41.1	92	29.9	92	65.8	92	5.1	92	36.4
11	92	44.0	91	30.5	91	60.9	91	5.2	91	38.2
12	92	46.4	91	30.9	91	57.2	91	5.2	91	39.6
13	92	48.3	91	31.1	91	54.1	91	5.2	91	40.6
14	92	49.8	91	31.3	91	51.8	91	5.2	91	41.4
15	92	50.8	91	31.2	91	50.3	91	5.1	91	41.9
16	92	51.1	91	31.2	91	49.8	91	5.1	91	42.0
17	92	50.3	92	31.2	92	51.1	92	5.1	92	41.6
18	92	48.3	92	31.3	92	54.3	92	5.2	92	40.7
19	92	46.3	92	31.5	92	58.2	92	5.3	92	39.8
20	92	44.8	92	31.4	92	61.2	92	5.3	92	39.0
21	92	43.5	92	31.3	92	63.8	92	5.3	92	38.3
22	92	42.4	92	31.0	92	65.6	92	5.2	92	37.6
23	92	41.7	92	30.9	92	66.8	92	5.2	92	37.1
24	92	40.9	92	30.6	92	67.7	92	5.1	92	36.6
HOURLY MEAN		43.1		30.5		63.5		5.1		37.6
AVG DAILY MAX		52.6		35.5		79.5		6.1		43.5
AVG DAILY MIN		33.9		25.5		47.1		4.2		31.2
ABSOLUTE MAX		90.8		68.7		95.2		17.2		74.1
ABSOLUTE MIN		-2.2		-8.4		17.1		.9		-3.0
TOTAL OBS		2208		2196		2196		2196		2196

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

JUL-DEC HOUR AVERAGES FOR THE PERIOD

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	181	55.7	180	45.5	180	69.7	180	9.3	180	50.4
2	181	54.9	180	45.1	180	70.8	180	9.2	180	49.8
3	181	54.1	179	45.0	179	72.0	179	9.2	179	49.5
4	181	53.3	179	44.6	179	73.0	179	9.1	179	48.9
5	181	52.7	179	44.2	179	73.5	179	9.0	179	48.5
6	181	52.1	179	44.0	179	74.4	179	8.9	179	48.1
7	181	52.0	179	44.0	179	74.9	179	9.0	179	48.1
8	181	53.0	178	44.5	178	73.9	178	9.2	178	48.6
9	180	55.4	179	45.4	179	70.4	179	9.5	179	50.1
10	180	58.4	179	46.1	179	65.2	179	9.7	179	51.8
11	180	61.2	178	46.6	178	60.3	178	9.8	178	53.3
12	180	63.5	178	46.7	178	56.2	178	9.8	178	54.3
13	180	65.2	178	46.6	178	53.3	178	9.7	178	55.0
14	180	66.6	178	46.7	178	51.2	178	9.6	178	55.5
15	180	67.5	178	46.7	178	49.8	178	9.6	178	55.9
16	180	67.7	178	46.7	178	49.5	178	9.6	178	56.0
17	180	67.0	179	46.5	179	50.3	179	9.6	179	55.6
18	181	65.5	180	46.6	180	52.7	180	9.6	180	55.0
19	181	63.4	180	46.8	180	56.8	180	9.8	180	54.3
20	181	61.2	180	46.8	180	60.7	180	9.8	180	53.4
21	181	59.5	180	46.5	180	63.7	180	9.7	180	52.5
22	181	58.1	180	46.2	180	65.8	180	9.6	180	51.8
23	181	57.2	180	46.0	180	67.5	180	9.5	180	51.3
24	181	56.3	180	45.6	180	68.6	180	9.4	180	50.7
HOURLY MEAN		59.2		45.8		63.5		9.5		52.0
AVG DAILY MAX		68.8		50.4		79.4		10.9		57.2
AVG DAILY MIN		50.0		41.2		46.7		8.1		46.1
ABSOLUTE MAX		100.6		78.5		100.0		23.5		82.5
ABSOLUTE MIN		-2.2		-8.4		17.1		.9		-3.0
TOTAL OBS		4335		4298		4298		4298		4298

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY 2005

JAN-DEC HOUR AVERAGES

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	358	51.3	357	40.3	357	67.4	357	7.9	357	46.0
2	358	50.5	357	40.1	357	68.6	357	7.8	357	45.5
3	358	49.7	356	39.9	356	69.9	356	7.8	356	45.0
4	358	48.9	356	39.6	356	71.0	356	7.7	356	44.5
5	358	48.2	356	39.3	356	72.0	356	7.6	356	44.0
6	358	47.7	356	39.1	356	72.8	356	7.6	356	43.7
7	358	47.8	356	39.3	356	73.0	356	7.7	356	43.8
8	357	48.9	354	39.7	354	71.8	354	7.8	354	44.4
9	356	51.1	355	40.5	355	68.5	355	8.1	355	45.8
10	356	53.7	355	41.1	355	64.1	355	8.2	355	47.3
11	356	56.3	354	41.4	354	59.7	354	8.3	354	48.7
12	356	58.5	354	41.6	354	55.9	354	8.2	354	49.7
13	357	60.1	355	41.5	355	53.1	355	8.2	355	50.5
14	356	61.5	354	41.6	354	51.1	354	8.2	354	51.1
15	356	62.4	354	41.6	354	49.7	354	8.1	354	51.5
16	357	62.7	355	41.6	355	49.3	355	8.1	355	51.7
17	357	62.3	356	41.5	356	49.8	356	8.1	356	51.4
18	358	61.1	357	41.4	357	51.5	357	8.1	357	50.9
19	358	59.4	357	41.6	357	54.6	357	8.2	357	50.2
20	358	57.3	357	41.6	357	58.1	357	8.2	357	49.3
21	358	55.5	357	41.4	357	61.1	357	8.2	357	48.5
22	358	54.2	357	41.2	357	63.2	357	8.1	357	47.8
23	358	53.2	357	41.0	357	64.8	357	8.1	357	47.2
24	358	52.2	357	40.7	357	66.2	357	8.0	357	46.6
HOURLY MEAN		54.8		40.8		62.0		8.0		47.7
AVG DAILY MAX		64.1		45.5		77.6		9.3		53.0
AVG DAILY MIN		45.7		36.1		45.9		6.8		41.8
ABSOLUTE MAX		100.6		78.5		100.0		23.5		82.5
ABSOLUTE MIN		-4.4		-12.2		15.7		.7		-5.2
TOTAL OBS		8576		8539		8539		8539		8539

Wind Direction Frequencies

10-Meter Level

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JANUARY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	12.9	6.5	3.2	6.5	00.0	00.0	6.5	3.2	12.9	3.2	3.2	00.0	3.2	6.5	9.7	22.6	00.0	100.
2	16.1	00.0	3.2	6.5	00.0	00.0	3.2	6.5	12.9	6.5	3.2	00.0	6.5	3.2	9.7	22.6	00.0	100.
3	6.5	3.2	3.2	9.7	00.0	00.0	6.5	6.5	9.7	12.9	3.2	00.0	3.2	3.2	3.2	29.0	00.0	100.
4	16.1	3.2	3.2	6.5	3.2	00.0	9.7	3.2	16.1	6.5	00.0	00.0	00.0	6.5	6.5	19.4	00.0	100.
5	19.4	3.2	3.2	3.2	3.2	6.5	3.2	12.9	12.9	9.7	00.0	00.0	3.2	3.2	6.5	9.7	00.0	100.
6	16.1	9.7	3.2	3.2	3.2	3.2	12.9	9.7	9.7	00.0	6.5	3.2	00.0	3.2	6.5	9.7	00.0	100.
7	12.9	6.5	3.2	00.0	6.5	3.2	9.7	6.5	12.9	9.7	00.0	3.2	3.2	3.2	6.5	12.9	00.0	100.
8	6.5	12.9	3.2	00.0	3.2	6.5	9.7	6.5	12.9	3.2	3.2	3.2	6.5	3.2	6.5	12.9	00.0	100.
9	12.9	9.7	3.2	6.5	00.0	12.9	6.5	6.5	16.1	3.2	00.0	3.2	6.5	3.2	00.0	9.7	00.0	100.
10	16.1	6.5	3.2	3.2	00.0	6.5	9.7	6.5	19.4	00.0	00.0	6.5	00.0	6.5	6.5	9.7	00.0	100.
11	12.9	9.7	3.2	00.0	3.2	6.5	12.9	3.2	19.4	3.2	00.0	3.2	6.5	3.2	6.5	6.5	00.0	100.
12	12.9	9.7	6.5	00.0	00.0	9.7	12.9	3.2	12.9	6.5	00.0	00.0	12.9	3.2	3.2	6.5	00.0	100.
13	12.9	6.5	6.5	00.0	00.0	9.7	6.5	9.7	12.9	00.0	00.0	3.2	12.9	6.5	3.2	9.7	00.0	100.
14	9.7	9.7	3.2	00.0	00.0	6.5	12.9	3.2	6.5	12.9	00.0	9.7	3.2	6.5	3.2	12.9	00.0	100.
15	12.9	9.7	00.0	00.0	3.2	6.5	12.9	6.5	3.2	12.9	00.0	3.2	3.2	6.5	00.0	19.4	00.0	100.
16	16.1	9.7	00.0	00.0	00.0	9.7	12.9	9.7	3.2	9.7	00.0	00.0	00.0	6.5	3.2	19.4	00.0	100.
17	3.2	16.1	3.2	3.2	00.0	3.2	19.4	3.2	9.7	9.7	00.0	00.0	00.0	00.0	6.5	22.6	00.0	100.
18	22.6	6.5	3.2	00.0	00.0	9.7	12.9	3.2	9.7	3.2	6.5	00.0	00.0	00.0	3.2	19.4	00.0	100.
19	19.4	6.5	00.0	00.0	6.5	6.5	9.7	6.5	3.2	00.0	3.2	3.2	3.2	00.0	6.5	25.8	00.0	100.
20	19.4	6.5	6.5	3.2	00.0	6.5	3.2	6.5	9.7	00.0	3.2	3.2	00.0	3.2	3.2	25.8	00.0	100.
21	25.8	3.2	6.5	00.0	00.0	6.5	3.2	3.2	12.9	00.0	6.5	3.2	00.0	3.2	6.5	19.4	00.0	100.
22	16.1	6.5	3.2	00.0	3.2	00.0	6.5	9.7	6.5	6.5	00.0	6.5	00.0	00.0	3.2	32.3	00.0	100.
23	22.6	9.7	3.2	00.0	00.0	3.2	6.5	9.7	12.9	00.0	3.2	3.2	00.0	3.2	6.5	16.1	00.0	100.
24	19.4	6.5	6.5	00.0	00.0	00.0	9.7	6.5	12.9	00.0	3.2	00.0	3.2	3.2	6.5	19.4	3.2	100.
ALL	15.1	7.4	3.5	2.2	1.5	5.1	9.1	6.3	11.3	5.0	1.9	2.4	3.2	3.6	5.1	17.2	.1	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

FEBRUARY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	21.4	00.0	7.1	00.0	3.6	00.0	10.7	3.6	25.0	7.1	00.0	00.0	00.0	00.0	14.3	7.1	00.0	100.
2	25.0	7.1	00.0	3.6	00.0	3.6	7.1	14.3	7.1	3.6	00.0	7.1	00.0	3.6	17.9	00.0	00.0	100.
3	14.3	10.7	00.0	3.6	00.0	00.0	7.1	10.7	21.4	7.1	3.6	3.6	00.0	10.7	7.1	00.0	00.0	100.
4	17.9	7.1	3.6	00.0	3.6	00.0	21.4	3.6	21.4	3.6	00.0	00.0	3.6	00.0	10.7	3.6	00.0	100.
5	21.4	3.6	3.6	00.0	00.0	3.6	14.3	3.6	14.3	14.3	3.6	00.0	3.6	00.0	7.1	7.1	00.0	100.
6	10.7	14.3	00.0	3.6	00.0	3.6	10.7	00.0	17.9	14.3	7.1	00.0	3.6	00.0	10.7	3.6	00.0	100.
7	14.3	10.7	00.0	00.0	3.6	3.6	14.3	10.7	14.3	10.7	00.0	00.0	3.6	00.0	10.7	3.6	00.0	100.
8	10.7	17.9	00.0	3.6	3.6	00.0	7.1	14.3	10.7	10.7	00.0	00.0	00.0	3.6	10.7	7.1	00.0	100.
9	14.3	14.3	3.6	00.0	00.0	00.0	10.7	17.9	7.1	10.7	3.6	3.6	3.6	3.6	3.6	3.6	00.0	100.
10	3.6	10.7	00.0	3.6	00.0	3.6	10.7	10.7	17.9	10.7	3.6	00.0	00.0	3.6	14.3	7.1	00.0	100.
11	14.3	7.1	00.0	3.6	00.0	7.1	7.1	14.3	3.6	14.3	7.1	00.0	7.1	3.6	3.6	7.1	00.0	100.
12	10.7	10.7	3.6	00.0	00.0	10.7	10.7	3.6	10.7	17.9	00.0	3.6	00.0	7.1	7.1	3.6	00.0	100.
13	10.7	3.6	3.6	3.6	3.6	10.7	7.1	10.7	3.6	14.3	3.6	00.0	00.0	14.3	3.6	3.6	3.6	100.
14	10.7	7.1	00.0	7.1	00.0	3.6	10.7	7.1	7.1	14.3	3.6	3.6	3.6	10.7	7.1	3.6	00.0	100.
15	14.3	00.0	3.6	3.6	3.6	00.0	17.9	3.6	10.7	7.1	7.1	00.0	7.1	7.1	7.1	7.1	00.0	100.
16	21.4	3.6	3.6	00.0	3.6	00.0	14.3	3.6	7.1	14.3	7.1	00.0	3.6	10.7	7.1	00.0	00.0	100.
17	17.9	14.3	00.0	3.6	3.6	3.6	10.7	3.6	7.1	14.3	00.0	3.6	00.0	10.7	7.1	00.0	00.0	100.
18	17.9	00.0	3.6	7.1	00.0	3.6	17.9	00.0	10.7	7.1	7.1	00.0	3.6	00.0	7.1	14.3	00.0	100.
19	17.9	00.0	10.7	3.6	00.0	00.0	7.1	7.1	17.9	7.1	3.6	00.0	00.0	7.1	10.7	7.1	00.0	100.
20	14.3	10.7	00.0	3.6	00.0	00.0	10.7	00.0	14.3	14.3	3.6	00.0	3.6	00.0	17.9	3.6	3.6	100.
21	10.7	3.6	00.0	00.0	00.0	00.0	10.7	3.6	21.4	7.1	3.6	00.0	3.6	00.0	7.1	28.6	00.0	100.
22	17.9	00.0	3.6	00.0	00.0	00.0	10.7	3.6	21.4	10.7	7.1	00.0	00.0	00.0	3.6	21.4	00.0	100.
23	14.3	3.6	7.1	00.0	00.0	00.0	10.7	7.1	14.3	7.1	3.6	3.6	00.0	3.6	14.3	10.7	00.0	100.
24	14.3	00.0	3.6	3.6	00.0	00.0	14.3	10.7	14.3	7.1	00.0	3.6	00.0	00.0	14.3	14.3	00.0	100.
ALL	15.0	6.7	2.5	2.4	1.2	2.4	11.5	7.0	13.4	10.4	3.3	1.3	2.1	4.2	9.4	7.0	.3	100.

NUMBER OF OBS = 672

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

MARCH

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	17.2	00.0	3.4	3.4	6.9	3.4	6.9	3.4	3.4	10.3	6.9	00.0	00.0	13.8	6.9	10.3	3.4	100.
2	13.8	3.4	00.0	13.8	00.0	3.4	3.4	6.9	17.2	10.3	3.4	00.0	00.0	3.4	13.8	6.9	00.0	100.
3	10.3	3.4	00.0	10.3	00.0	3.4	6.9	6.9	17.2	6.9	3.4	00.0	3.4	3.4	13.8	10.3	00.0	100.
4	10.3	3.4	3.4	13.8	00.0	3.4	6.9	3.4	13.8	10.3	3.4	00.0	6.9	00.0	13.8	6.9	00.0	100.
5	20.7	00.0	3.4	3.4	6.9	3.4	6.9	3.4	13.8	6.9	10.3	00.0	00.0	10.3	3.4	6.9	00.0	100.
6	24.1	00.0	6.9	00.0	3.4	6.9	13.8	3.4	10.3	3.4	3.4	3.4	3.4	6.9	3.4	6.9	00.0	100.
7	10.3	3.4	6.9	6.9	00.0	10.3	3.4	10.3	17.2	00.0	3.4	00.0	3.4	10.3	6.9	6.9	00.0	100.
8	13.8	6.9	6.9	3.4	3.4	10.3	00.0	6.9	24.1	3.4	00.0	00.0	3.4	3.4	6.9	6.9	00.0	100.
9	00.0	24.1	3.4	00.0	3.4	6.9	17.2	3.4	13.8	10.3	00.0	00.0	3.4	3.4	00.0	10.3	00.0	100.
10	10.3	17.2	6.9	00.0	00.0	10.3	6.9	00.0	6.9	17.2	3.4	6.9	00.0	00.0	6.9	6.9	00.0	100.
11	3.4	13.8	10.3	3.4	00.0	10.3	3.4	00.0	3.4	17.2	3.4	10.3	00.0	3.4	3.4	13.8	00.0	100.
12	10.3	10.3	13.8	00.0	3.4	13.8	00.0	3.4	3.4	13.8	10.3	00.0	3.4	6.9	3.4	3.4	00.0	100.
13	3.4	10.3	00.0	10.3	00.0	13.8	3.4	00.0	3.4	17.2	6.9	00.0	3.4	6.9	6.9	13.8	00.0	100.
14	10.7	10.7	00.0	7.1	10.7	3.6	00.0	3.6	3.6	10.7	7.1	3.6	3.6	3.6	14.3	7.1	00.0	100.
15	7.1	10.7	3.6	3.6	00.0	10.7	7.1	00.0	00.0	7.1	10.7	3.6	3.6	17.9	7.1	7.1	00.0	100.
16	10.7	10.7	00.0	3.6	00.0	10.7	00.0	3.6	00.0	14.3	3.6	3.6	10.7	7.1	7.1	14.3	00.0	100.
17	10.7	3.6	7.1	00.0	3.6	7.1	00.0	3.6	00.0	10.7	7.1	00.0	10.7	14.3	7.1	14.3	00.0	100.
18	10.7	10.7	3.6	00.0	3.6	7.1	00.0	3.6	00.0	10.7	7.1	7.1	10.7	3.6	3.6	17.9	00.0	100.
19	3.6	7.1	7.1	3.6	3.6	3.6	00.0	00.0	10.7	10.7	3.6	3.6	3.6	7.1	10.7	21.4	00.0	100.
20	10.7	10.7	7.1	00.0	7.1	3.6	00.0	3.6	10.7	10.7	10.7	00.0	3.6	3.6	7.1	10.7	00.0	100.
21	14.3	14.3	00.0	00.0	3.6	3.6	3.6	14.3	10.7	10.7	3.6	00.0	3.6	7.1	7.1	3.6	00.0	100.
22	7.1	14.3	00.0	00.0	3.6	7.1	3.6	7.1	10.7	14.3	3.6	3.6	00.0	3.6	14.3	7.1	00.0	100.
23	7.1	10.7	3.6	00.0	00.0	10.7	00.0	7.1	17.9	3.6	10.7	00.0	00.0	3.6	17.9	7.1	00.0	100.
24	10.7	7.1	00.0	7.1	7.1	3.6	3.6	3.6	10.7	7.1	7.1	3.6	3.6	7.1	7.1	10.7	00.0	100.
ALL	10.5	8.6	4.1	3.9	2.9	7.2	4.1	4.2	9.3	9.9	5.5	2.0	3.5	6.3	8.0	9.6	.1	100.

NUMBER OF OBS = 685

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-MAR

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	17.0	2.3	4.5	3.4	3.4	1.1	8.0	3.4	13.6	6.8	3.4	00.0	1.1	6.8	10.2	13.6	1.1	100.
2	18.2	3.4	1.1	8.0	00.0	2.3	4.5	9.1	12.5	6.8	2.3	2.3	2.3	3.4	13.6	10.2	00.0	100.
3	10.2	5.7	1.1	8.0	00.0	1.1	6.8	8.0	15.9	9.1	3.4	1.1	2.3	5.7	8.0	13.6	00.0	100.
4	14.8	4.5	3.4	6.8	2.3	1.1	12.5	3.4	17.0	6.8	1.1	00.0	3.4	2.3	10.2	10.2	00.0	100.
5	20.5	2.3	3.4	2.3	3.4	4.5	8.0	6.8	13.6	10.2	4.5	00.0	2.3	4.5	5.7	8.0	00.0	100.
6	17.0	8.0	3.4	2.3	2.3	4.5	12.5	4.5	12.5	5.7	5.7	2.3	2.3	3.4	6.8	6.8	00.0	100.
7	12.5	6.8	3.4	2.3	3.4	5.7	9.1	9.1	14.8	6.8	1.1	1.1	3.4	4.5	8.0	8.0	00.0	100.
8	10.2	12.5	3.4	2.3	3.4	5.7	5.7	9.1	15.9	5.7	1.1	1.1	3.4	3.4	8.0	9.1	00.0	100.
9	9.1	15.9	3.4	2.3	1.1	6.8	11.4	9.1	12.5	8.0	1.1	2.3	4.5	3.4	1.1	8.0	00.0	100.
10	10.2	11.4	3.4	2.3	00.0	6.8	9.1	5.7	14.8	9.1	2.3	4.5	00.0	3.4	9.1	8.0	00.0	100.
11	10.2	10.2	4.5	2.3	1.1	8.0	8.0	5.7	9.1	11.4	3.4	4.5	4.5	3.4	4.5	9.1	00.0	100.
12	11.4	10.2	8.0	00.0	1.1	11.4	8.0	3.4	9.1	12.5	3.4	1.1	5.7	5.7	4.5	4.5	00.0	100.
13	9.1	6.8	3.4	4.5	1.1	11.4	5.7	6.8	6.8	10.2	3.4	1.1	5.7	9.1	4.5	9.1	1.1	100.
14	10.3	9.2	1.1	4.6	3.4	4.6	8.0	4.6	5.7	12.6	3.4	5.7	3.4	6.9	8.0	8.0	00.0	100.
15	11.5	6.9	2.3	2.3	2.3	5.7	12.6	3.4	4.6	9.2	5.7	2.3	4.6	10.3	4.6	11.5	00.0	100.
16	16.1	8.0	1.1	1.1	1.1	6.9	9.2	5.7	3.4	12.6	3.4	1.1	4.6	8.0	5.7	11.5	00.0	100.
17	10.3	11.5	3.4	2.3	2.3	4.6	10.3	3.4	5.7	11.5	2.3	1.1	3.4	8.0	6.9	12.6	00.0	100.
18	17.2	5.7	3.4	2.3	1.1	6.9	10.3	2.3	6.9	6.9	6.9	2.3	4.6	1.1	4.6	17.2	00.0	100.
19	13.8	4.6	5.7	2.3	3.4	3.4	5.7	4.6	10.3	5.7	3.4	2.3	2.3	4.6	9.2	18.4	00.0	100.
20	14.9	9.2	4.6	2.3	2.3	3.4	4.6	3.4	11.5	8.0	5.7	1.1	2.3	2.3	9.2	13.8	1.1	100.
21	17.2	6.9	2.3	00.0	1.1	3.4	5.7	6.9	14.9	5.7	4.6	1.1	2.3	3.4	6.9	17.2	00.0	100.
22	13.8	6.9	2.3	00.0	2.3	2.3	6.9	6.9	12.6	10.3	3.4	3.4	00.0	1.1	6.9	20.7	00.0	100.
23	14.9	8.0	4.6	00.0	00.0	4.6	5.7	8.0	14.9	3.4	5.7	2.3	00.0	3.4	12.6	11.5	00.0	100.
24	14.9	4.6	3.4	3.4	2.3	1.1	9.2	6.9	12.6	4.6	3.4	2.3	2.3	3.4	9.2	14.9	1.1	100.
ALL	13.6	7.6	3.4	2.8	1.9	4.9	8.2	5.9	11.3	8.3	3.5	2.0	3.0	4.7	7.4	11.5	.2	100.

NUMBER OF OBS = 2101

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

APRIL

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	3.6	3.6	3.6	3.6	3.6	00.0	7.1	10.7	14.3	7.1	7.1	3.6	00.0	10.7	7.1	14.3	00.0	100.
2	3.6	3.6	00.0	7.1	00.0	3.6	7.1	10.7	14.3	10.7	3.6	00.0	3.6	7.1	14.3	10.7	00.0	100.
3	7.1	3.6	3.6	00.0	00.0	00.0	3.6	7.1	25.0	3.6	7.1	3.6	7.1	7.1	7.1	14.3	00.0	100.
4	7.1	7.1	3.6	3.6	00.0	3.6	3.6	10.7	14.3	3.6	3.6	3.6	10.7	3.6	14.3	7.1	00.0	100.
5	10.7	10.7	3.6	3.6	00.0	3.6	00.0	17.9	10.7	7.1	00.0	00.0	10.7	00.0	10.7	7.1	3.6	100.
6	10.7	7.1	00.0	00.0	7.1	3.6	14.3	3.6	14.3	3.6	3.6	00.0	7.1	3.6	7.1	14.3	00.0	100.
7	10.7	3.6	3.6	3.6	00.0	00.0	17.9	10.7	10.7	3.6	7.1	3.6	00.0	7.1	7.1	10.7	00.0	100.
8	3.7	7.4	00.0	00.0	7.4	3.7	14.8	11.1	11.1	00.0	3.7	3.7	3.7	3.7	11.1	14.8	00.0	100.
9	7.4	3.7	7.4	00.0	00.0	14.8	3.7	11.1	14.8	00.0	3.7	3.7	3.7	00.0	14.8	11.1	00.0	100.
10	7.4	7.4	00.0	00.0	3.7	00.0	14.8	7.4	14.8	11.1	00.0	3.7	00.0	3.7	14.8	11.1	00.0	100.
11	3.7	11.1	00.0	00.0	00.0	7.4	7.4	18.5	14.8	3.7	00.0	3.7	00.0	7.4	11.1	11.1	00.0	100.
12	3.7	11.1	00.0	00.0	00.0	3.7	14.8	18.5	11.1	3.7	00.0	3.7	00.0	7.4	7.4	14.8	00.0	100.
13	00.0	10.7	00.0	00.0	00.0	7.1	10.7	7.1	21.4	3.6	3.6	00.0	00.0	7.1	7.1	21.4	00.0	100.
14	10.7	7.1	00.0	00.0	00.0	3.6	14.3	10.7	14.3	7.1	3.6	00.0	00.0	7.1	7.1	14.3	00.0	100.
15	3.6	7.1	3.6	00.0	00.0	7.1	14.3	7.1	17.9	3.6	00.0	00.0	3.6	3.6	7.1	21.4	00.0	100.
16	3.4	3.4	3.4	00.0	00.0	3.4	6.9	17.2	17.2	6.9	00.0	00.0	3.4	6.9	6.9	20.7	00.0	100.
17	6.9	00.0	3.4	3.4	00.0	00.0	6.9	20.7	13.8	6.9	00.0	00.0	6.9	00.0	10.3	20.7	00.0	100.
18	00.0	00.0	00.0	10.3	00.0	00.0	13.8	6.9	17.2	6.9	00.0	00.0	00.0	10.3	10.3	24.1	00.0	100.
19	10.3	00.0	00.0	3.4	3.4	3.4	13.8	10.3	13.8	3.4	3.4	00.0	6.9	3.4	13.8	10.3	00.0	100.
20	6.9	3.4	00.0	3.4	00.0	6.9	17.2	6.9	13.8	00.0	3.4	3.4	3.4	6.9	10.3	13.8	00.0	100.
21	6.9	3.4	6.9	00.0	3.4	00.0	13.8	6.9	13.8	6.9	3.4	6.9	00.0	3.4	13.8	10.3	00.0	100.
22	10.3	00.0	6.9	3.4	00.0	00.0	10.3	6.9	17.2	6.9	6.9	6.9	00.0	3.4	6.9	13.8	00.0	100.
23	10.3	6.9	00.0	00.0	3.4	00.0	6.9	17.2	13.8	6.9	00.0	3.4	6.9	3.4	3.4	17.2	00.0	100.
24	17.2	3.4	00.0	00.0	00.0	6.9	3.4	20.7	13.8	3.4	00.0	00.0	6.9	3.4	10.3	10.3	00.0	100.
ALL	7.0	5.2	2.1	1.9	1.3	3.4	10.1	11.5	14.9	5.0	2.7	2.2	3.6	5.0	9.8	14.2	.1	100.

NUMBER OF OBS = 676

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

MAY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	19.4	3.2	3.2	00.0	00.0	3.2	3.2	9.7	25.8	12.9	3.2	00.0	00.0	6.5	00.0	9.7	00.0	100.
2	12.9	3.2	00.0	3.2	3.2	3.2	6.5	12.9	16.1	9.7	3.2	3.2	00.0	6.5	9.7	3.2	3.2	100.
3	3.2	9.7	3.2	3.2	3.2	6.5	6.5	12.9	19.4	9.7	00.0	00.0	6.5	3.2	00.0	12.9	00.0	100.
4	9.7	3.2	6.5	3.2	6.5	3.2	6.5	19.4	16.1	9.7	6.5	00.0	3.2	3.2	3.2	00.0	00.0	100.
5	19.4	00.0	3.2	3.2	3.2	3.2	00.0	22.6	19.4	9.7	3.2	00.0	3.2	3.2	6.5	00.0	00.0	100.
6	6.5	00.0	6.5	3.2	00.0	6.5	6.5	22.6	22.6	00.0	3.2	3.2	6.5	3.2	3.2	6.5	00.0	100.
7	9.7	3.2	00.0	3.2	6.5	3.2	3.2	16.1	19.4	6.5	3.2	6.5	3.2	6.5	6.5	3.2	00.0	100.
8	6.5	00.0	6.5	3.2	9.7	3.2	3.2	3.2	32.3	6.5	00.0	3.2	6.5	9.7	6.5	00.0	00.0	100.
9	6.5	3.2	3.2	3.2	00.0	12.9	6.5	3.2	22.6	9.7	00.0	00.0	6.5	3.2	19.4	00.0	00.0	100.
10	6.5	3.2	00.0	6.5	3.2	6.5	12.9	00.0	12.9	19.4	00.0	3.2	00.0	9.7	12.9	3.2	00.0	100.
11	3.2	6.5	00.0	00.0	6.5	3.2	16.1	3.2	16.1	9.7	00.0	6.5	00.0	6.5	16.1	6.5	00.0	100.
12	3.2	6.5	3.2	00.0	00.0	3.2	12.9	9.7	16.1	9.7	3.2	3.2	3.2	6.5	9.7	9.7	00.0	100.
13	6.5	3.2	3.2	3.2	00.0	3.2	12.9	9.7	12.9	9.7	00.0	3.2	6.5	3.2	19.4	3.2	00.0	100.
14	3.2	00.0	9.7	3.2	00.0	3.2	6.5	12.9	6.5	16.1	00.0	3.2	6.5	6.5	6.5	16.1	00.0	100.
15	00.0	00.0	12.9	00.0	00.0	00.0	9.7	3.2	25.8	3.2	3.2	00.0	3.2	12.9	19.4	6.5	00.0	100.
16	00.0	00.0	00.0	9.7	00.0	9.7	00.0	12.9	22.6	00.0	00.0	3.2	3.2	9.7	12.9	16.1	00.0	100.
17	00.0	3.2	00.0	6.5	6.5	00.0	3.2	12.9	19.4	3.2	3.2	00.0	6.5	6.5	9.7	19.4	00.0	100.
18	00.0	00.0	00.0	9.7	3.2	3.2	6.5	16.1	12.9	6.5	3.2	00.0	6.5	3.2	9.7	19.4	00.0	100.
19	00.0	00.0	00.0	3.2	9.7	00.0	16.1	6.5	12.9	6.5	3.2	6.5	3.2	00.0	3.2	29.0	00.0	100.
20	3.2	00.0	00.0	00.0	6.5	12.9	3.2	9.7	9.7	9.7	3.2	00.0	3.2	9.7	9.7	19.4	00.0	100.
21	12.9	3.2	00.0	3.2	6.5	3.2	9.7	16.1	6.5	9.7	00.0	3.2	00.0	3.2	6.5	16.1	00.0	100.
22	9.7	9.7	00.0	6.5	00.0	6.5	3.2	12.9	9.7	12.9	6.5	3.2	00.0	00.0	12.9	6.5	00.0	100.
23	9.7	6.5	3.2	00.0	6.5	6.5	3.2	12.9	19.4	9.7	3.2	00.0	00.0	3.2	12.9	3.2	00.0	100.
24	9.7	00.0	3.2	00.0	3.2	00.0	9.7	9.7	16.1	12.9	3.2	00.0	12.9	00.0	12.9	6.5	00.0	100.
ALL	6.7	2.8	2.8	3.2	3.5	4.4	7.0	11.3	17.2	8.9	2.3	2.2	3.8	5.2	9.5	9.0	.1	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUNE

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.7	00.0	00.0	00.0	3.3	6.7	16.7	13.3	20.0	13.3	00.0	00.0	00.0	10.0	6.7	3.3	00.0	100.
2	6.7	00.0	3.3	3.3	3.3	3.3	16.7	3.3	23.3	16.7	6.7	3.3	3.3	3.3	3.3	00.0	00.0	100.
3	3.3	00.0	00.0	3.3	3.3	13.3	10.0	10.0	20.0	13.3	10.0	00.0	3.3	3.3	3.3	00.0	3.3	100.
4	3.3	00.0	00.0	3.3	3.3	6.7	3.3	23.3	13.3	26.7	00.0	00.0	10.0	3.3	00.0	3.3	00.0	100.
5	00.0	3.3	00.0	00.0	6.7	3.3	10.0	20.0	23.3	13.3	3.3	00.0	3.3	3.3	00.0	10.0	00.0	100.
6	3.3	6.7	00.0	00.0	10.0	3.3	10.0	20.0	13.3	20.0	00.0	3.3	6.7	3.3	00.0	00.0	00.0	100.
7	00.0	00.0	00.0	3.3	3.3	6.7	13.3	13.3	23.3	20.0	00.0	00.0	16.7	00.0	00.0	00.0	00.0	100.
8	00.0	3.3	3.3	00.0	00.0	10.0	16.7	3.3	33.3	10.0	10.0	00.0	6.7	3.3	00.0	00.0	00.0	100.
9	3.3	00.0	00.0	3.3	00.0	3.3	16.7	10.0	16.7	26.7	3.3	6.7	3.3	00.0	6.7	00.0	00.0	100.
10	00.0	00.0	3.3	3.3	6.7	00.0	10.0	13.3	20.0	20.0	6.7	6.7	3.3	3.3	3.3	00.0	00.0	100.
11	00.0	00.0	00.0	6.7	3.3	6.7	10.0	16.7	13.3	20.0	6.7	6.7	3.3	6.7	00.0	00.0	00.0	100.
12	00.0	00.0	00.0	00.0	10.0	3.3	10.0	16.7	23.3	26.7	00.0	00.0	3.3	6.7	00.0	00.0	00.0	100.
13	00.0	00.0	00.0	00.0	3.3	6.7	10.0	20.0	20.0	16.7	3.3	6.7	3.3	6.7	3.3	00.0	00.0	100.
14	00.0	00.0	00.0	00.0	00.0	13.3	6.7	16.7	30.0	10.0	3.3	00.0	3.3	10.0	00.0	6.7	00.0	100.
15	6.7	00.0	00.0	3.3	00.0	6.7	6.7	16.7	33.3	10.0	3.3	00.0	3.3	6.7	00.0	3.3	00.0	100.
16	00.0	6.7	3.3	00.0	3.3	6.7	10.0	20.0	30.0	6.7	3.3	00.0	3.3	3.3	00.0	3.3	00.0	100.
17	00.0	3.3	00.0	00.0	6.7	3.3	16.7	10.0	40.0	6.7	3.3	3.3	3.3	3.3	00.0	00.0	00.0	100.
18	00.0	3.3	3.3	3.3	00.0	6.7	20.0	10.0	33.3	10.0	3.3	00.0	3.3	3.3	00.0	00.0	00.0	100.
19	00.0	3.3	00.0	3.3	3.3	00.0	36.7	16.7	13.3	6.7	10.0	3.3	00.0	00.0	3.3	00.0	00.0	100.
20	3.3	00.0	3.3	00.0	3.3	00.0	26.7	26.7	16.7	6.7	00.0	3.3	3.3	6.7	00.0	00.0	00.0	100.
21	00.0	3.3	3.3	00.0	3.3	00.0	23.3	26.7	13.3	10.0	3.3	3.3	00.0	3.3	00.0	6.7	00.0	100.
22	6.7	00.0	3.3	3.3	3.3	00.0	23.3	16.7	23.3	3.3	00.0	3.3	3.3	6.7	3.3	00.0	00.0	100.
23	6.7	00.0	00.0	00.0	6.7	00.0	13.3	23.3	26.7	3.3	3.3	00.0	3.3	3.3	3.3	6.7	00.0	100.
24	00.0	00.0	00.0	3.3	6.7	3.3	10.0	10.0	26.7	10.0	00.0	00.0	6.7	10.0	3.3	6.7	3.3	100.
ALL	2.1	1.4	1.1	1.8	3.9	4.7	14.4	15.7	22.9	13.6	3.5	2.1	4.2	4.6	1.7	2.1	.3	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

APR-JUN

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	10.1	2.2	2.2	1.1	2.2	3.4	9.0	11.2	20.2	11.2	3.4	1.1	00.0	9.0	4.5	9.0	00.0	100.
2	7.9	2.2	1.1	4.5	2.2	3.4	10.1	9.0	18.0	12.4	4.5	2.2	2.2	5.6	9.0	4.5	1.1	100.
3	4.5	4.5	2.2	2.2	2.2	6.7	6.7	10.1	21.3	9.0	5.6	1.1	5.6	4.5	3.4	9.0	1.1	100.
4	6.7	3.4	3.4	3.4	3.4	4.5	4.5	18.0	14.6	13.5	3.4	1.1	7.9	3.4	5.6	3.4	00.0	100.
5	10.1	4.5	2.2	2.2	3.4	3.4	3.4	20.2	18.0	10.1	2.2	00.0	5.6	2.2	5.6	5.6	1.1	100.
6	6.7	4.5	2.2	1.1	5.6	4.5	10.1	15.7	16.9	7.9	2.2	2.2	6.7	3.4	3.4	6.7	00.0	100.
7	6.7	2.2	1.1	3.4	3.4	3.4	11.2	13.5	18.0	10.1	3.4	3.4	6.7	4.5	4.5	4.5	00.0	100.
8	3.4	3.4	3.4	1.1	5.7	5.7	11.4	5.7	26.1	5.7	4.5	2.3	5.7	5.7	5.7	4.5	00.0	100.
9	5.7	2.3	3.4	2.3	00.0	10.2	9.1	8.0	18.2	12.5	2.3	3.4	4.5	1.1	13.6	3.4	00.0	100.
10	4.5	3.4	1.1	3.4	4.5	2.3	12.5	6.8	15.9	17.0	2.3	4.5	1.1	5.7	10.2	4.5	00.0	100.
11	2.3	5.7	00.0	2.3	3.4	5.7	11.4	12.5	14.8	11.4	2.3	5.7	1.1	6.8	9.1	5.7	00.0	100.
12	2.3	5.7	1.1	00.0	3.4	3.4	12.5	14.8	17.0	13.6	1.1	2.3	2.3	6.8	5.7	8.0	00.0	100.
13	2.2	4.5	1.1	1.1	1.1	5.6	11.2	12.4	18.0	10.1	2.2	3.4	3.4	5.6	10.1	7.9	00.0	100.
14	4.5	2.2	3.4	1.1	00.0	6.7	9.0	13.5	16.9	11.2	2.2	1.1	3.4	7.9	4.5	12.4	00.0	100.
15	3.4	2.2	5.6	1.1	00.0	4.5	10.1	9.0	25.8	5.6	2.2	00.0	3.4	7.9	9.0	10.1	00.0	100.
16	1.1	3.3	2.2	3.3	1.1	6.7	5.6	16.7	23.3	4.4	1.1	1.1	3.3	6.7	6.7	13.3	00.0	100.
17	2.2	2.2	1.1	3.3	4.4	1.1	8.9	14.4	24.4	5.6	2.2	1.1	5.6	3.3	6.7	13.3	00.0	100.
18	00.0	1.1	1.1	7.8	1.1	3.3	13.3	11.1	21.1	7.8	2.2	00.0	3.3	5.6	6.7	14.4	00.0	100.
19	3.3	1.1	00.0	3.3	5.6	1.1	22.2	11.1	13.3	5.6	5.6	3.3	3.3	1.1	6.7	13.3	00.0	100.
20	4.4	1.1	1.1	1.1	3.3	6.7	15.6	14.4	13.3	5.6	2.2	2.2	3.3	7.8	6.7	11.1	00.0	100.
21	6.7	3.3	3.3	1.1	4.4	1.1	15.6	16.7	11.1	8.9	2.2	4.4	00.0	3.3	6.7	11.1	00.0	100.
22	8.9	3.3	3.3	4.4	1.1	2.2	12.2	12.2	16.7	7.8	4.4	4.4	1.1	3.3	7.8	6.7	00.0	100.
23	8.9	4.4	1.1	00.0	5.6	2.2	7.8	17.8	20.0	6.7	2.2	1.1	3.3	3.3	6.7	8.9	00.0	100.
24	8.9	1.1	1.1	1.1	3.3	3.3	7.8	13.3	18.9	8.9	1.1	00.0	8.9	4.4	8.9	7.8	1.1	100.
ALL	5.2	3.1	2.0	2.3	2.9	4.2	10.5	12.9	18.4	9.3	2.8	2.1	3.8	5.0	7.0	8.3	.2	100.

NUMBER OF OBS = 2140

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-JUN

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	13.6	2.3	3.4	2.3	2.8	2.3	8.5	7.3	16.9	9.0	3.4	.6	.6	7.9	7.3	11.3	.6	100.
2	13.0	2.8	1.1	6.2	1.1	2.8	7.3	9.0	15.3	9.6	3.4	2.3	2.3	4.5	11.3	7.3	.6	100.
3	7.3	5.1	1.7	5.1	1.1	4.0	6.8	9.0	18.6	9.0	4.5	1.1	4.0	5.1	5.6	11.3	.6	100.
4	10.7	4.0	3.4	5.1	2.8	2.8	8.5	10.7	15.8	10.2	2.3	.6	5.6	2.8	7.9	6.8	00.0	100.
5	15.3	3.4	2.8	2.3	3.4	4.0	5.6	13.6	15.8	10.2	3.4	00.0	4.0	3.4	5.6	6.8	.6	100.
6	11.9	6.2	2.8	1.7	4.0	4.5	11.3	10.2	14.7	6.8	4.0	2.3	4.5	3.4	5.1	6.8	00.0	100.
7	9.6	4.5	2.3	2.8	3.4	4.5	10.2	11.3	16.4	8.5	2.3	2.3	5.1	4.5	6.2	6.2	00.0	100.
8	6.8	8.0	3.4	1.7	4.5	5.7	8.5	7.4	21.0	5.7	2.8	1.7	4.5	4.5	6.8	6.8	00.0	100.
9	7.4	9.1	3.4	2.3	.6	8.5	10.2	8.5	15.3	10.2	1.7	2.8	4.5	2.3	7.4	5.7	00.0	100.
10	7.4	7.4	2.3	2.8	2.3	4.5	10.8	6.3	15.3	13.1	2.3	4.5	.6	4.5	9.7	6.3	00.0	100.
11	6.3	8.0	2.3	2.3	2.3	6.8	9.7	9.1	11.9	11.4	2.8	5.1	2.8	5.1	6.8	7.4	00.0	100.
12	6.8	8.0	4.5	00.0	2.3	7.4	10.2	9.1	13.1	13.1	2.3	1.7	4.0	6.3	5.1	6.3	00.0	100.
13	5.6	5.6	2.3	2.8	1.1	8.5	8.5	9.6	12.4	10.2	2.8	2.3	4.5	7.3	7.3	8.5	.6	100.
14	7.4	5.7	2.3	2.8	1.7	5.7	8.5	9.1	11.4	11.9	2.8	3.4	3.4	7.4	6.3	10.2	00.0	100.
15	7.4	4.5	4.0	1.7	1.1	5.1	11.4	6.3	15.3	7.4	4.0	1.1	4.0	9.1	6.8	10.8	00.0	100.
16	8.5	5.6	1.7	2.3	1.1	6.8	7.3	11.3	13.6	8.5	2.3	1.1	4.0	7.3	6.2	12.4	00.0	100.
17	6.2	6.8	2.3	2.8	3.4	2.8	9.6	9.0	15.3	8.5	2.3	1.1	4.5	5.6	6.8	13.0	00.0	100.
18	8.5	3.4	2.3	5.1	1.1	5.1	11.9	6.8	14.1	7.3	4.5	1.1	4.0	3.4	5.6	15.8	00.0	100.
19	8.5	2.8	2.8	2.8	4.5	2.3	14.1	7.9	11.9	5.6	4.5	2.8	2.8	2.8	7.9	15.8	00.0	100.
20	9.6	5.1	2.8	1.7	2.8	5.1	10.2	9.0	12.4	6.8	4.0	1.7	2.8	5.1	7.9	12.4	.6	100.
21	11.9	5.1	2.8	.6	2.8	2.3	10.7	11.9	13.0	7.3	3.4	2.8	1.1	3.4	6.8	14.1	00.0	100.
22	11.3	5.1	2.8	2.3	1.7	2.3	9.6	9.6	14.7	9.0	4.0	4.0	.6	2.3	7.3	13.6	00.0	100.
23	11.9	6.2	2.8	00.0	2.8	3.4	6.8	13.0	17.5	5.1	4.0	1.7	1.7	3.4	9.6	10.2	00.0	100.
24	11.9	2.8	2.3	2.3	2.8	2.3	8.5	10.2	15.8	6.8	2.3	1.1	5.6	4.0	9.0	11.3	1.1	100.
ALL	9.4	5.3	2.7	2.6	2.4	4.6	9.4	9.4	14.9	8.8	3.2	2.1	3.4	4.8	7.2	9.9	.2	100.

NUMBER OF OBS = 4241

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JULY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	9.7	3.2	6.5	00.0	00.0	00.0	3.2	19.4	32.3	00.0	00.0	9.7	6.5	00.0	3.2	6.5	00.0	100.
2	3.2	9.7	00.0	3.2	00.0	3.2	3.2	12.9	25.8	9.7	6.5	3.2	9.7	3.2	00.0	3.2	3.2	100.
3	6.5	00.0	00.0	3.2	00.0	00.0	6.5	12.9	25.8	6.5	9.7	6.5	3.2	6.5	3.2	9.7	00.0	100.
4	3.2	00.0	00.0	00.0	00.0	3.2	9.7	9.7	19.4	19.4	9.7	6.5	3.2	00.0	9.7	6.5	00.0	100.
5	3.2	00.0	00.0	00.0	00.0	00.0	16.1	9.7	25.8	12.9	6.5	00.0	3.2	00.0	6.5	12.9	3.2	100.
6	00.0	3.2	00.0	00.0	00.0	00.0	6.5	16.1	22.6	6.5	12.9	3.2	00.0	12.9	3.2	9.7	3.2	100.
7	3.2	00.0	00.0	00.0	00.0	00.0	6.5	16.1	32.3	9.7	3.2	9.7	9.7	00.0	00.0	9.7	00.0	100.
8	9.7	6.5	00.0	3.2	00.0	9.7	6.5	9.7	32.3	16.1	00.0	00.0	00.0	3.2	00.0	3.2	00.0	100.
9	6.5	12.9	00.0	3.2	00.0	6.5	3.2	9.7	32.3	19.4	3.2	00.0	00.0	3.2	00.0	00.0	00.0	100.
10	9.7	3.2	3.2	3.2	3.2	3.2	9.7	3.2	35.5	19.4	00.0	3.2	00.0	3.2	00.0	00.0	00.0	100.
11	12.9	6.5	00.0	3.2	6.5	6.5	3.2	6.5	35.5	12.9	3.2	00.0	3.2	00.0	00.0	00.0	00.0	100.
12	9.7	00.0	9.7	6.5	00.0	3.2	3.2	12.9	38.7	9.7	00.0	00.0	00.0	3.2	00.0	3.2	00.0	100.
13	9.7	6.5	00.0	6.5	00.0	3.2	6.5	9.7	41.9	9.7	00.0	00.0	3.2	00.0	3.2	00.0	00.0	100.
14	3.2	12.9	3.2	00.0	3.2	6.5	00.0	16.1	38.7	9.7	3.2	00.0	00.0	3.2	00.0	00.0	00.0	100.
15	12.9	6.5	00.0	3.2	00.0	6.5	00.0	16.1	38.7	6.5	3.2	00.0	00.0	00.0	3.2	3.2	00.0	100.
16	12.9	3.2	3.2	3.2	6.5	3.2	00.0	19.4	35.5	3.2	00.0	00.0	3.2	00.0	3.2	3.2	00.0	100.
17	12.9	9.7	00.0	00.0	00.0	6.5	3.2	19.4	38.7	00.0	00.0	00.0	00.0	3.2	3.2	3.2	00.0	100.
18	16.1	3.2	6.5	3.2	3.2	00.0	3.2	29.0	29.0	00.0	3.2	00.0	3.2	00.0	00.0	00.0	00.0	100.
19	12.9	6.5	6.5	3.2	3.2	00.0	3.2	29.0	32.3	3.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	100.
20	6.5	3.2	3.2	00.0	3.2	00.0	9.7	29.0	12.9	6.5	3.2	3.2	3.2	00.0	9.7	6.5	00.0	100.
21	6.5	00.0	3.2	00.0	00.0	3.2	6.5	22.6	19.4	9.7	3.2	3.2	3.2	3.2	6.5	9.7	00.0	100.
22	3.2	00.0	3.2	3.2	00.0	00.0	12.9	19.4	19.4	6.5	3.2	6.5	3.2	6.5	00.0	12.9	00.0	100.
23	9.7	3.2	00.0	00.0	3.2	00.0	6.5	19.4	12.9	19.4	6.5	9.7	00.0	00.0	6.5	3.2	00.0	100.
24	6.5	00.0	3.2	00.0	00.0	3.2	6.5	19.4	19.4	19.4	3.2	3.2	3.2	3.2	3.2	6.5	00.0	100.
ALL	7.9	4.2	2.2	2.0	1.3	2.8	5.6	16.1	29.0	9.8	3.5	2.8	2.6	2.3	2.7	4.7	.4	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

AUGUST

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	3.2	12.9	3.2	00.0	00.0	3.2	9.7	12.9	22.6	6.5	3.2	00.0	3.2	3.2	3.2	9.7	3.2	100.
2	12.9	6.5	00.0	3.2	3.2	6.5	3.2	6.5	19.4	3.2	9.7	3.2	00.0	9.7	6.5	3.2	3.2	100.
3	3.2	3.2	3.2	3.2	00.0	9.7	6.5	22.6	3.2	6.5	6.5	6.5	6.5	3.2	6.5	6.5	3.2	100.
4	6.5	00.0	6.5	6.5	3.2	00.0	6.5	22.6	16.1	6.5	9.7	00.0	3.2	00.0	6.5	00.0	6.5	100.
5	12.9	3.2	00.0	9.7	6.5	3.2	3.2	16.1	6.5	6.5	6.5	00.0	12.9	3.2	6.5	3.2	00.0	100.
6	6.5	00.0	00.0	9.7	6.5	00.0	3.2	9.7	12.9	6.5	6.5	6.5	6.5	6.5	9.7	9.7	00.0	100.
7	6.5	3.2	9.7	6.5	00.0	3.2	6.5	16.1	12.9	3.2	9.7	00.0	3.2	3.2	3.2	6.5	6.5	100.
8	6.5	6.5	3.2	12.9	3.2	00.0	19.4	12.9	16.1	6.5	6.5	00.0	00.0	00.0	00.0	3.2	3.2	100.
9	3.2	6.5	3.2	6.5	6.5	12.9	9.7	16.1	9.7	12.9	3.2	3.2	3.2	00.0	00.0	3.2	00.0	100.
10	6.5	12.9	00.0	9.7	3.2	6.5	16.1	00.0	16.1	19.4	9.7	00.0	00.0	00.0	00.0	00.0	00.0	100.
11	6.5	6.5	3.2	6.5	6.5	9.7	12.9	3.2	16.1	6.5	12.9	6.5	00.0	3.2	00.0	00.0	00.0	100.
12	3.2	6.5	6.5	6.5	12.9	00.0	9.7	6.5	12.9	12.9	6.5	12.9	00.0	3.2	00.0	00.0	00.0	100.
13	3.2	00.0	9.7	12.9	3.2	9.7	6.5	3.2	16.1	16.1	00.0	6.5	12.9	00.0	00.0	00.0	00.0	100.
14	3.2	3.2	9.7	6.5	6.5	9.7	9.7	3.2	22.6	6.5	3.2	3.2	3.2	9.7	00.0	00.0	00.0	100.
15	3.2	9.7	3.2	6.5	6.5	9.7	6.5	16.1	12.9	9.7	3.2	3.2	00.0	00.0	6.5	3.2	00.0	100.
16	3.2	12.9	3.2	12.9	00.0	9.7	12.9	3.2	19.4	3.2	9.7	3.2	00.0	00.0	3.2	3.2	00.0	100.
17	3.2	9.7	00.0	9.7	9.7	9.7	16.1	3.2	9.7	6.5	9.7	00.0	00.0	3.2	00.0	9.7	00.0	100.
18	6.5	6.5	9.7	6.5	3.2	9.7	16.1	9.7	12.9	6.5	00.0	3.2	00.0	00.0	3.2	6.5	00.0	100.
19	00.0	6.5	9.7	12.9	00.0	6.5	19.4	6.5	9.7	6.5	00.0	6.5	00.0	00.0	3.2	12.9	00.0	100.
20	9.7	3.2	3.2	9.7	00.0	00.0	19.4	3.2	9.7	12.9	6.5	00.0	00.0	00.0	6.5	16.1	00.0	100.
21	22.6	3.2	3.2	3.2	00.0	6.5	9.7	6.5	9.7	6.5	00.0	6.5	00.0	6.5	00.0	16.1	00.0	100.
22	16.1	12.9	3.2	3.2	6.5	00.0	9.7	6.5	9.7	9.7	3.2	3.2	00.0	00.0	9.7	6.5	00.0	100.
23	19.4	00.0	3.2	6.5	3.2	00.0	6.5	3.2	12.9	19.4	3.2	00.0	6.5	6.5	9.7	00.0	00.0	100.
24	9.7	6.5	6.5	00.0	6.5	00.0	6.5	3.2	22.6	12.9	3.2	00.0	3.2	6.5	6.5	6.5	00.0	100.
ALL	7.4	5.9	4.3	7.1	4.0	5.2	10.2	8.9	13.8	8.9	5.5	3.1	2.7	2.8	3.8	5.2	1.1	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

SEPTEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	3.7	3.7	3.7	00.0	00.0	00.0	11.1	14.8	25.9	14.8	3.7	3.7	3.7	00.0	3.7	7.4	00.0	100.
2	3.7	3.7	00.0	3.7	3.7	00.0	11.1	7.4	33.3	7.4	3.7	7.4	00.0	00.0	00.0	11.1	3.7	100.
3	00.0	3.7	00.0	3.7	00.0	00.0	18.5	14.8	33.3	00.0	00.0	3.7	00.0	3.7	00.0	14.8	3.7	100.
4	00.0	3.7	00.0	7.4	3.7	3.7	11.1	11.1	37.0	3.7	00.0	7.4	00.0	00.0	00.0	11.1	00.0	100.
5	00.0	3.7	00.0	7.4	7.4	00.0	14.8	18.5	22.2	7.4	00.0	3.7	3.7	00.0	00.0	11.1	00.0	100.
6	00.0	14.8	00.0	3.7	3.7	3.7	7.4	18.5	25.9	3.7	7.4	00.0	00.0	00.0	00.0	11.1	00.0	100.
7	3.7	3.7	00.0	3.7	00.0	7.4	3.7	29.6	14.8	14.8	3.7	00.0	3.7	00.0	00.0	7.4	3.7	100.
8	3.7	00.0	3.7	3.7	7.4	00.0	3.7	37.0	7.4	7.4	00.0	7.4	3.7	3.7	3.7	7.4	00.0	100.
9	3.8	7.7	3.8	00.0	7.7	11.5	3.8	7.7	42.3	3.8	00.0	00.0	00.0	00.0	00.0	7.7	00.0	100.
10	3.8	3.8	7.7	3.8	3.8	3.8	7.7	15.4	26.9	15.4	00.0	00.0	3.8	00.0	00.0	3.8	00.0	100.
11	7.7	3.8	00.0	7.7	3.8	00.0	15.4	7.7	34.6	15.4	00.0	00.0	00.0	00.0	00.0	3.8	00.0	100.
12	3.8	3.8	00.0	00.0	7.7	00.0	11.5	11.5	30.8	23.1	00.0	00.0	00.0	00.0	00.0	7.7	00.0	100.
13	00.0	7.7	00.0	00.0	3.8	3.8	11.5	7.7	46.2	11.5	00.0	00.0	00.0	00.0	00.0	7.7	00.0	100.
14	00.0	3.8	3.8	3.8	00.0	3.8	11.5	11.5	26.9	23.1	00.0	00.0	00.0	3.8	00.0	7.7	00.0	100.
15	11.5	00.0	00.0	3.8	00.0	3.8	15.4	7.7	38.5	7.7	3.8	00.0	00.0	3.8	00.0	3.8	00.0	100.
16	7.7	3.8	00.0	00.0	7.7	00.0	15.4	3.8	42.3	11.5	00.0	00.0	00.0	00.0	00.0	7.7	00.0	100.
17	11.5	00.0	3.8	00.0	7.7	00.0	11.5	15.4	38.5	7.7	00.0	00.0	00.0	00.0	00.0	3.8	00.0	100.
18	3.7	00.0	7.4	00.0	7.4	00.0	11.1	18.5	40.7	00.0	3.7	00.0	00.0	00.0	00.0	7.4	00.0	100.
19	7.4	00.0	3.7	00.0	3.7	11.1	11.1	29.6	18.5	00.0	3.7	00.0	7.4	00.0	00.0	3.7	00.0	100.
20	14.8	3.7	00.0	00.0	7.4	00.0	22.2	29.6	11.1	3.7	00.0	00.0	00.0	00.0	00.0	3.7	3.7	100.
21	11.1	00.0	00.0	3.7	00.0	7.4	14.8	22.2	25.9	00.0	3.7	3.7	00.0	00.0	00.0	3.7	3.7	100.
22	7.4	3.7	00.0	00.0	00.0	00.0	25.9	29.6	14.8	11.1	00.0	00.0	00.0	00.0	00.0	3.7	3.7	100.
23	3.7	7.4	00.0	00.0	00.0	7.4	14.8	14.8	37.0	3.7	00.0	00.0	00.0	00.0	00.0	3.7	7.4	100.
24	7.4	3.7	00.0	3.7	00.0	3.7	3.7	14.8	37.0	7.4	00.0	3.7	3.7	00.0	3.7	3.7	3.7	100.
ALL	5.0	3.8	1.6	2.5	3.6	3.0	12.1	16.7	29.6	8.5	1.4	1.7	1.3	.6	.5	6.9	1.4	100.

NUMBER OF OBS = 639

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUL-SEP

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	5.6	6.7	4.5	00.0	00.0	1.1	7.9	15.7	27.0	6.7	2.2	4.5	4.5	1.1	3.4	7.9	1.1	100.
2	6.7	6.7	00.0	3.4	2.2	3.4	5.6	9.0	25.8	6.7	6.7	4.5	3.4	4.5	2.2	5.6	3.4	100.
3	3.4	2.2	1.1	3.4	00.0	3.4	10.1	16.9	20.2	4.5	5.6	5.6	3.4	4.5	3.4	10.1	2.2	100.
4	3.4	1.1	2.2	4.5	2.2	2.2	9.0	14.6	23.6	10.1	6.7	4.5	2.2	00.0	5.6	5.6	2.2	100.
5	5.6	2.2	00.0	5.6	4.5	1.1	11.2	14.6	18.0	9.0	4.5	1.1	6.7	1.1	4.5	9.0	1.1	100.
6	2.2	5.6	00.0	4.5	3.4	1.1	5.6	14.6	20.2	5.6	9.0	3.4	2.2	6.7	4.5	10.1	1.1	100.
7	4.5	2.2	3.4	3.4	00.0	3.4	5.6	20.2	20.2	9.0	5.6	3.4	5.6	1.1	1.1	7.9	3.4	100.
8	6.7	4.5	2.2	6.7	3.4	3.4	10.1	19.1	19.1	10.1	2.2	2.2	1.1	2.2	1.1	4.5	1.1	100.
9	4.5	9.1	2.3	3.4	4.5	10.2	5.7	11.4	27.3	12.5	2.3	1.1	1.1	1.1	00.0	3.4	00.0	100.
10	6.8	6.8	3.4	5.7	3.4	4.5	11.4	5.7	26.1	18.2	3.4	1.1	1.1	1.1	00.0	1.1	00.0	100.
11	9.1	5.7	1.1	5.7	5.7	5.7	10.2	5.7	28.4	11.4	5.7	2.3	1.1	1.1	00.0	1.1	00.0	100.
12	5.7	3.4	5.7	4.5	6.8	1.1	8.0	10.2	27.3	14.8	2.3	4.5	00.0	2.3	00.0	3.4	00.0	100.
13	4.5	4.5	3.4	6.8	2.3	5.7	8.0	6.8	34.1	12.5	00.0	2.3	5.7	00.0	1.1	2.3	00.0	100.
14	2.3	6.8	5.7	3.4	3.4	6.8	6.8	10.2	29.5	12.5	2.3	1.1	1.1	5.7	00.0	2.3	00.0	100.
15	9.1	5.7	1.1	4.5	2.3	6.8	6.8	13.6	29.5	8.0	3.4	1.1	00.0	1.1	3.4	3.4	00.0	100.
16	8.0	6.8	2.3	5.7	4.5	4.5	9.1	9.1	31.8	5.7	3.4	1.1	1.1	00.0	2.3	4.5	00.0	100.
17	9.1	6.8	1.1	3.4	5.7	5.7	10.2	12.5	28.4	4.5	3.4	00.0	00.0	2.3	1.1	5.7	00.0	100.
18	9.0	3.4	7.9	3.4	4.5	3.4	10.1	19.1	27.0	2.2	2.2	1.1	1.1	00.0	1.1	4.5	00.0	100.
19	6.7	4.5	6.7	5.6	2.2	5.6	11.2	21.3	20.2	3.4	1.1	2.2	2.2	00.0	1.1	5.6	00.0	100.
20	10.1	3.4	2.2	3.4	3.4	00.0	16.9	20.2	11.2	7.9	3.4	1.1	1.1	00.0	5.6	9.0	1.1	100.
21	13.5	1.1	2.2	2.2	00.0	5.6	10.1	16.9	18.0	5.6	2.2	4.5	1.1	3.4	2.2	10.1	1.1	100.
22	9.0	5.6	2.2	2.2	2.2	00.0	15.7	18.0	14.6	9.0	2.2	3.4	1.1	2.2	3.4	7.9	1.1	100.
23	11.2	3.4	1.1	2.2	2.2	2.2	9.0	12.4	20.2	14.6	3.4	3.4	2.2	2.2	5.6	2.2	2.2	100.
24	7.9	3.4	3.4	1.1	2.2	2.2	5.6	12.4	25.8	13.5	2.2	2.2	3.4	3.4	4.5	5.6	1.1	100.
ALL	6.9	4.7	2.7	3.9	3.0	3.7	9.2	13.8	23.9	9.1	3.6	2.6	2.2	2.0	2.4	5.5	.9	100.

NUMBER OF OBS = 2127

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

OCTOBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	16.1	3.2	00.0	3.2	00.0	00.0	9.7	12.9	29.0	00.0	00.0	00.0	00.0	00.0	6.5	16.1	3.2	100.
2	12.9	6.5	00.0	00.0	6.5	9.7	9.7	16.1	16.1	00.0	00.0	00.0	00.0	3.2	6.5	12.9	00.0	100.
3	9.7	3.2	3.2	00.0	3.2	3.2	3.2	16.1	22.6	00.0	3.2	00.0	3.2	3.2	6.5	16.1	3.2	100.
4	9.7	9.7	3.2	00.0	00.0	3.2	3.2	19.4	12.9	6.5	00.0	00.0	3.2	3.2	12.9	12.9	00.0	100.
5	6.5	12.9	3.2	00.0	00.0	00.0	6.5	19.4	19.4	3.2	3.2	3.2	00.0	3.2	6.5	12.9	00.0	100.
6	12.9	6.5	00.0	3.2	00.0	00.0	6.5	9.7	22.6	9.7	3.2	00.0	00.0	00.0	9.7	16.1	00.0	100.
7	12.9	3.2	6.5	00.0	00.0	00.0	9.7	16.1	16.1	00.0	3.2	3.2	3.2	3.2	9.7	9.7	3.2	100.
8	9.7	6.5	6.5	00.0	00.0	00.0	12.9	9.7	12.9	00.0	16.1	00.0	3.2	3.2	19.4	00.0	00.0	100.
9	3.2	12.9	9.7	3.2	3.2	00.0	12.9	9.7	16.1	3.2	00.0	6.5	00.0	00.0	9.7	9.7	00.0	100.
10	3.2	3.2	9.7	00.0	3.2	9.7	12.9	3.2	22.6	3.2	00.0	3.2	3.2	3.2	3.2	16.1	00.0	100.
11	3.2	3.2	9.7	00.0	00.0	16.1	6.5	12.9	16.1	00.0	6.5	00.0	6.5	00.0	3.2	16.1	00.0	100.
12	6.5	3.2	9.7	3.2	3.2	3.2	9.7	3.2	25.8	00.0	9.7	3.2	3.2	00.0	00.0	16.1	00.0	100.
13	12.9	00.0	6.5	3.2	6.5	00.0	9.7	9.7	16.1	6.5	00.0	9.7	6.5	00.0	6.5	6.5	00.0	100.
14	3.2	12.9	00.0	3.2	3.2	00.0	12.9	12.9	19.4	00.0	00.0	6.5	9.7	00.0	6.5	9.7	00.0	100.
15	3.2	6.5	3.2	00.0	9.7	00.0	9.7	12.9	19.4	00.0	00.0	6.5	3.2	6.5	3.2	16.1	00.0	100.
16	3.2	3.2	00.0	6.5	3.2	6.5	12.9	3.2	22.6	00.0	3.2	3.2	6.5	3.2	6.5	16.1	00.0	100.
17	00.0	6.5	3.2	3.2	00.0	00.0	22.6	6.5	19.4	00.0	3.2	3.2	3.2	6.5	6.5	16.1	00.0	100.
18	00.0	3.2	6.5	00.0	6.5	6.5	9.7	16.1	12.9	00.0	3.2	6.5	3.2	3.2	6.5	16.1	00.0	100.
19	9.7	3.2	00.0	3.2	9.7	3.2	12.9	6.5	12.9	3.2	00.0	00.0	00.0	9.7	9.7	12.9	3.2	100.
20	9.7	3.2	3.2	00.0	3.2	3.2	12.9	12.9	9.7	3.2	00.0	00.0	3.2	12.9	9.7	9.7	3.2	100.
21	6.5	6.5	3.2	00.0	00.0	9.7	12.9	9.7	12.9	00.0	3.2	3.2	00.0	00.0	12.9	16.1	3.2	100.
22	9.7	3.2	6.5	00.0	00.0	6.5	12.9	12.9	12.9	9.7	00.0	00.0	00.0	3.2	9.7	12.9	00.0	100.
23	6.5	9.7	6.5	3.2	00.0	3.2	6.5	16.1	19.4	6.5	3.2	00.0	00.0	00.0	9.7	9.7	00.0	100.
24	6.5	3.2	6.5	3.2	00.0	00.0	12.9	16.1	19.4	00.0	00.0	00.0	00.0	3.2	12.9	16.1	00.0	100.
ALL	7.4	5.6	4.4	1.6	2.6	3.5	10.5	11.8	17.9	2.3	2.6	2.4	2.6	3.0	8.1	13.0	.8	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

NOVEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.7	00.0	00.0	3.3	00.0	3.3	3.3	13.3	20.0	6.7	3.3	00.0	6.7	10.0	13.3	10.0	00.0	100.
2	00.0	3.3	00.0	6.7	00.0	00.0	3.3	13.3	13.3	6.7	13.3	6.7	3.3	6.7	10.0	13.3	00.0	100.
3	6.7	00.0	3.3	6.7	00.0	00.0	3.3	6.7	16.7	10.0	3.3	6.7	10.0	3.3	10.0	13.3	00.0	100.
4	3.3	00.0	00.0	3.3	00.0	00.0	3.3	20.0	13.3	6.7	10.0	3.3	00.0	10.0	10.0	16.7	00.0	100.
5	13.3	00.0	00.0	3.3	00.0	00.0	3.3	16.7	20.0	6.7	00.0	6.7	00.0	10.0	6.7	13.3	00.0	100.
6	6.7	6.7	3.3	3.3	00.0	00.0	3.3	16.7	13.3	6.7	6.7	3.3	6.7	6.7	13.3	3.3	00.0	100.
7	6.7	00.0	3.3	00.0	00.0	3.3	3.3	20.0	20.0	00.0	3.3	3.3	10.0	6.7	10.0	10.0	00.0	100.
8	13.3	00.0	3.3	00.0	00.0	6.7	6.7	16.7	16.7	6.7	00.0	00.0	6.7	13.3	6.7	3.3	00.0	100.
9	10.0	00.0	3.3	00.0	00.0	00.0	10.0	20.0	13.3	6.7	3.3	00.0	6.7	13.3	10.0	3.3	00.0	100.
10	3.3	3.3	6.7	00.0	00.0	00.0	10.0	10.0	23.3	3.3	3.3	6.7	3.3	10.0	13.3	3.3	00.0	100.
11	6.7	00.0	3.3	6.7	00.0	00.0	6.7	10.0	23.3	6.7	00.0	6.7	6.7	3.3	16.7	3.3	00.0	100.
12	3.3	3.3	3.3	00.0	00.0	00.0	10.0	3.3	16.7	16.7	3.3	6.7	6.7	3.3	20.0	3.3	00.0	100.
13	3.3	00.0	6.7	00.0	00.0	00.0	10.0	3.3	13.3	23.3	3.3	00.0	3.3	10.0	13.3	10.0	00.0	100.
14	3.3	00.0	3.3	00.0	00.0	3.3	6.7	3.3	10.0	26.7	6.7	00.0	3.3	6.7	16.7	10.0	00.0	100.
15	3.3	00.0	00.0	3.3	00.0	6.7	3.3	6.7	3.3	30.0	3.3	3.3	3.3	6.7	16.7	10.0	00.0	100.
16	00.0	00.0	00.0	3.3	00.0	6.7	3.3	6.7	3.3	20.0	16.7	00.0	00.0	16.7	13.3	10.0	00.0	100.
17	00.0	3.3	00.0	00.0	3.3	3.3	6.7	10.0	3.3	20.0	13.3	00.0	00.0	10.0	20.0	6.7	00.0	100.
18	00.0	3.3	00.0	00.0	00.0	3.3	10.0	6.7	13.3	13.3	3.3	6.7	3.3	10.0	26.7	00.0	00.0	100.
19	3.3	3.3	00.0	3.3	00.0	3.3	6.7	10.0	10.0	10.0	6.7	00.0	13.3	00.0	23.3	6.7	00.0	100.
20	6.7	3.3	3.3	00.0	00.0	3.3	00.0	16.7	16.7	10.0	00.0	3.3	6.7	10.0	10.0	10.0	00.0	100.
21	10.0	3.3	6.7	00.0	00.0	3.3	00.0	13.3	10.0	16.7	00.0	3.3	6.7	3.3	16.7	6.7	00.0	100.
22	6.7	00.0	00.0	3.3	00.0	3.3	3.3	13.3	13.3	13.3	00.0	3.3	3.3	10.0	20.0	6.7	00.0	100.
23	6.7	00.0	3.3	00.0	10.0	00.0	00.0	10.0	16.7	13.3	3.3	6.7	3.3	16.7	6.7	3.3	00.0	100.
24	3.3	3.3	00.0	00.0	10.0	00.0	00.0	3.3	20.0	10.0	6.7	3.3	3.3	13.3	10.0	13.3	00.0	100.
ALL	5.3	1.5	2.2	1.9	1.0	2.1	4.9	11.2	14.3	12.1	4.7	3.3	4.9	8.7	13.9	7.9	00.0	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

DECEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.5	3.2	00.0	6.5	00.0	00.0	3.2	12.9	3.2	6.5	6.5	00.0	12.9	6.5	19.4	12.9	00.0	100.
2	3.2	3.2	3.2	3.2	00.0	00.0	00.0	6.5	16.1	6.5	6.5	3.2	6.5	9.7	3.2	29.0	00.0	100.
3	3.2	3.2	3.2	00.0	00.0	00.0	3.2	12.9	3.2	6.5	12.9	00.0	16.1	12.9	3.2	19.4	00.0	100.
4	3.2	00.0	3.2	00.0	3.2	00.0	00.0	12.9	3.2	3.2	9.7	6.5	19.4	9.7	9.7	16.1	00.0	100.
5	00.0	00.0	3.2	00.0	00.0	3.2	00.0	9.7	6.5	00.0	6.5	6.5	19.4	12.9	16.1	16.1	00.0	100.
6	00.0	3.2	00.0	00.0	00.0	00.0	3.2	16.1	3.2	6.5	00.0	9.7	12.9	9.7	16.1	19.4	00.0	100.
7	6.5	3.2	00.0	00.0	00.0	00.0	9.7	9.7	9.7	00.0	00.0	9.7	6.5	16.1	12.9	16.1	00.0	100.
8	3.2	6.5	00.0	00.0	00.0	3.2	3.2	16.1	3.2	6.5	00.0	00.0	16.1	12.9	12.9	16.1	00.0	100.
9	9.7	00.0	00.0	00.0	00.0	3.2	6.5	16.1	9.7	00.0	3.2	3.2	6.5	16.1	6.5	19.4	00.0	100.
10	6.5	6.5	00.0	00.0	00.0	3.2	6.5	9.7	6.5	3.2	6.5	6.5	6.5	12.9	9.7	16.1	00.0	100.
11	19.4	00.0	00.0	00.0	00.0	00.0	12.9	3.2	3.2	12.9	00.0	9.7	3.2	19.4	9.7	6.5	00.0	100.
12	19.4	3.2	00.0	00.0	00.0	3.2	6.5	6.5	3.2	12.9	3.2	3.2	3.2	22.6	6.5	6.5	00.0	100.
13	3.2	9.7	00.0	00.0	00.0	6.5	3.2	00.0	9.7	12.9	6.5	00.0	3.2	22.6	16.1	6.5	00.0	100.
14	3.2	9.7	00.0	00.0	00.0	3.2	6.5	00.0	12.9	9.7	3.2	3.2	3.2	25.8	9.7	9.7	00.0	100.
15	9.7	3.2	00.0	00.0	3.2	00.0	6.5	3.2	16.1	6.5	00.0	00.0	9.7	22.6	6.5	12.9	00.0	100.
16	9.7	00.0	3.2	00.0	00.0	3.2	6.5	3.2	19.4	3.2	00.0	00.0	3.2	19.4	19.4	9.7	00.0	100.
17	9.7	00.0	3.2	00.0	3.2	6.5	3.2	9.7	6.5	6.5	00.0	3.2	3.2	22.6	12.9	9.7	00.0	100.
18	6.5	00.0	6.5	00.0	00.0	3.2	9.7	6.5	6.5	9.7	3.2	00.0	3.2	22.6	9.7	12.9	00.0	100.
19	6.5	00.0	3.2	3.2	3.2	3.2	6.5	6.5	9.7	6.5	3.2	00.0	6.5	19.4	9.7	12.9	00.0	100.
20	12.9	00.0	3.2	00.0	3.2	6.5	12.9	00.0	6.5	9.7	3.2	3.2	6.5	16.1	3.2	12.9	00.0	100.
21	9.7	00.0	3.2	3.2	00.0	00.0	6.5	9.7	9.7	6.5	6.5	3.2	16.1	12.9	6.5	6.5	00.0	100.
22	00.0	6.5	3.2	3.2	00.0	00.0	9.7	9.7	6.5	6.5	3.2	6.5	12.9	9.7	9.7	12.9	00.0	100.
23	6.5	3.2	00.0	3.2	00.0	00.0	3.2	19.4	6.5	00.0	6.5	6.5	9.7	16.1	9.7	9.7	00.0	100.
24	6.5	3.2	3.2	3.2	00.0	6.5	3.2	9.7	6.5	3.2	6.5	3.2	12.9	12.9	12.9	6.5	00.0	100.
ALL	6.9	2.8	1.7	1.1	.7	2.3	5.5	8.7	7.8	6.0	4.0	3.6	9.1	16.0	10.5	13.2	00.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

OCT-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	9.8	2.2	00.0	4.3	00.0	1.1	5.4	13.0	17.4	4.3	3.3	00.0	6.5	5.4	13.0	13.0	1.1	100.
2	5.4	4.3	1.1	3.3	2.2	3.3	4.3	12.0	15.2	4.3	6.5	3.3	3.3	6.5	6.5	18.5	00.0	100.
3	6.5	2.2	3.3	2.2	1.1	1.1	3.3	12.0	14.1	5.4	6.5	2.2	9.8	6.5	6.5	16.3	1.1	100.
4	5.4	3.3	2.2	1.1	1.1	1.1	2.2	17.4	9.8	5.4	6.5	3.3	7.6	7.6	10.9	15.2	00.0	100.
5	6.5	4.3	2.2	1.1	00.0	1.1	3.3	15.2	15.2	3.3	3.3	5.4	6.5	8.7	9.8	14.1	00.0	100.
6	6.5	5.4	1.1	2.2	00.0	00.0	4.3	14.1	13.0	7.6	3.3	4.3	6.5	5.4	13.0	13.0	00.0	100.
7	8.7	2.2	3.3	00.0	00.0	1.1	7.6	15.2	15.2	00.0	2.2	5.4	6.5	8.7	10.9	12.0	1.1	100.
8	8.7	4.3	3.3	00.0	00.0	3.3	7.6	14.1	10.9	4.3	5.4	00.0	8.7	9.8	13.0	6.5	00.0	100.
9	7.6	4.3	4.3	1.1	1.1	1.1	9.8	15.2	13.0	3.3	2.2	3.3	4.3	9.8	8.7	10.9	00.0	100.
10	4.3	4.3	5.4	00.0	1.1	4.3	9.8	7.6	17.4	3.3	3.3	5.4	4.3	8.7	8.7	12.0	00.0	100.
11	9.8	1.1	4.3	2.2	00.0	5.4	8.7	8.7	14.1	6.5	2.2	5.4	5.4	7.6	9.8	8.7	00.0	100.
12	9.8	3.3	4.3	1.1	1.1	2.2	8.7	4.3	15.2	9.8	5.4	4.3	4.3	8.7	8.7	8.7	00.0	100.
13	6.5	3.3	4.3	1.1	2.2	2.2	7.6	4.3	13.0	14.1	3.3	3.3	4.3	10.9	12.0	7.6	00.0	100.
14	3.3	7.6	1.1	1.1	1.1	2.2	8.7	5.4	14.1	12.0	3.3	3.3	5.4	10.9	10.9	9.8	00.0	100.
15	5.4	3.3	1.1	1.1	4.3	2.2	6.5	7.6	13.0	12.0	1.1	3.3	5.4	12.0	8.7	13.0	00.0	100.
16	4.3	1.1	1.1	3.3	1.1	5.4	7.6	4.3	15.2	7.6	6.5	1.1	3.3	13.0	13.0	12.0	00.0	100.
17	3.3	3.3	2.2	1.1	2.2	3.3	10.9	8.7	9.8	8.7	5.4	2.2	2.2	13.0	13.0	10.9	00.0	100.
18	2.2	2.2	4.3	00.0	2.2	4.3	9.8	9.8	10.9	7.6	3.3	4.3	3.3	12.0	14.1	9.8	00.0	100.
19	6.5	2.2	1.1	3.3	4.3	3.3	8.7	7.6	10.9	6.5	3.3	00.0	6.5	9.8	14.1	10.9	1.1	100.
20	9.8	2.2	3.3	00.0	2.2	4.3	8.7	9.8	10.9	7.6	1.1	2.2	5.4	13.0	7.6	10.9	1.1	100.
21	8.7	3.3	4.3	1.1	00.0	4.3	6.5	10.9	10.9	7.6	3.3	3.3	7.6	5.4	12.0	9.8	1.1	100.
22	5.4	3.3	3.3	2.2	00.0	3.3	8.7	12.0	10.9	9.8	1.1	3.3	5.4	7.6	13.0	10.9	00.0	100.
23	6.5	4.3	3.3	2.2	3.3	1.1	3.3	15.2	14.1	6.5	4.3	4.3	4.3	10.9	8.7	7.6	00.0	100.
24	5.4	3.3	3.3	2.2	3.3	2.2	5.4	9.8	15.2	4.3	4.3	2.2	5.4	9.8	12.0	12.0	00.0	100.
ALL	6.5	3.4	2.8	1.5	1.4	2.6	7.0	10.6	13.3	6.7	3.8	3.1	5.5	9.2	10.8	11.4	.3	100.

NUMBER OF OBS = 2208

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUL-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	7.7	4.4	2.2	2.2	00.0	1.1	6.6	14.4	22.1	5.5	2.8	2.2	5.5	3.3	8.3	10.5	1.1	100.
2	6.1	5.5	.6	3.3	2.2	3.3	5.0	10.5	20.4	5.5	6.6	3.9	3.3	5.5	4.4	12.2	1.7	100.
3	5.0	2.2	2.2	2.8	.6	2.2	6.6	14.4	17.1	5.0	6.1	3.9	6.6	5.5	5.0	13.3	1.7	100.
4	4.4	2.2	2.2	2.8	1.7	1.7	5.5	16.0	16.6	7.7	6.6	3.9	5.0	3.9	8.3	10.5	1.1	100.
5	6.1	3.3	1.1	3.3	2.2	1.1	7.2	14.9	16.6	6.1	3.9	3.3	6.6	5.0	7.2	11.6	.6	100.
6	4.4	5.5	.6	3.3	1.7	.6	5.0	14.4	16.6	6.6	6.1	3.9	4.4	6.1	8.8	11.6	.6	100.
7	6.6	2.2	3.3	1.7	00.0	2.2	6.6	17.7	17.7	4.4	3.9	4.4	6.1	5.0	6.1	9.9	2.2	100.
8	7.7	4.4	2.8	3.3	1.7	3.3	8.8	16.6	14.9	7.2	3.9	1.1	5.0	6.1	7.2	5.5	.6	100.
9	6.1	6.7	3.3	2.2	2.8	5.6	7.8	13.3	20.0	7.8	2.2	2.2	2.8	5.6	4.4	7.2	00.0	100.
10	5.6	5.6	4.4	2.8	2.2	4.4	10.6	6.7	21.7	10.6	3.3	3.3	2.8	5.0	4.4	6.7	00.0	100.
11	9.4	3.3	2.8	3.9	2.8	5.6	9.4	7.2	21.1	8.9	3.9	3.9	3.3	4.4	5.0	5.0	00.0	100.
12	7.8	3.3	5.0	2.8	3.9	1.7	8.3	7.2	21.1	12.2	3.9	4.4	2.2	5.6	4.4	6.1	00.0	100.
13	5.6	3.9	3.9	3.9	2.2	3.9	7.8	5.6	23.3	13.3	1.7	2.8	5.0	5.6	6.7	5.0	00.0	100.
14	2.8	7.2	3.3	2.2	2.2	4.4	7.8	7.8	21.7	12.2	2.8	2.2	3.3	8.3	5.6	6.1	00.0	100.
15	7.2	4.4	1.1	2.8	3.3	4.4	6.7	10.6	21.1	10.0	2.2	2.2	2.8	6.7	6.1	8.3	00.0	100.
16	6.1	3.9	1.7	4.4	2.8	5.0	8.3	6.7	23.3	6.7	5.0	1.1	2.2	6.7	7.8	8.3	00.0	100.
17	6.1	5.0	1.7	2.2	3.9	4.4	10.6	10.6	18.9	6.7	4.4	1.1	1.1	7.8	7.2	8.3	00.0	100.
18	5.5	2.8	6.1	1.7	3.3	3.9	9.9	14.4	18.8	5.0	2.8	2.8	2.2	6.1	7.7	7.2	00.0	100.
19	6.6	3.3	3.9	4.4	3.3	4.4	9.9	14.4	15.5	5.0	2.2	1.1	4.4	5.0	7.7	8.3	.6	100.
20	9.9	2.8	2.8	1.7	2.8	2.2	12.7	14.9	11.0	7.7	2.2	1.7	3.3	6.6	6.6	9.9	1.1	100.
21	11.0	2.2	3.3	1.7	00.0	5.0	8.3	13.8	14.4	6.6	2.8	3.9	4.4	4.4	7.2	9.9	1.1	100.
22	7.2	4.4	2.8	2.2	1.1	1.7	12.2	14.9	12.7	9.4	1.7	3.3	3.3	5.0	8.3	9.4	.6	100.
23	8.8	3.9	2.2	2.2	2.8	1.7	6.1	13.8	17.1	10.5	3.9	3.9	3.3	6.6	7.2	5.0	1.1	100.
24	6.6	3.3	3.3	1.7	2.8	2.2	5.5	11.0	20.4	8.8	3.3	2.2	4.4	6.6	8.3	8.8	.6	100.
ALL	6.7	4.0	2.8	2.7	2.2	3.2	8.1	12.2	18.5	7.9	3.7	2.9	3.9	5.7	6.7	8.5	.6	100.

NUMBER OF OBS = 4335

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	10.6	3.4	2.8	2.2	1.4	1.7	7.5	10.9	19.6	7.3	3.1	1.4	3.1	5.6	7.8	10.9	.8	100.
2	9.5	4.2	.8	4.7	1.7	3.1	6.1	9.8	17.9	7.5	5.0	3.1	2.8	5.0	7.8	9.8	1.1	100.
3	6.1	3.6	2.0	3.9	.8	3.1	6.7	11.7	17.9	7.0	5.3	2.5	5.3	5.3	5.3	12.3	1.1	100.
4	7.5	3.1	2.8	3.9	2.2	2.2	7.0	13.4	16.2	8.9	4.5	2.2	5.3	3.4	8.1	8.7	.6	100.
5	10.6	3.4	2.0	2.8	2.8	2.5	6.4	14.2	16.2	8.1	3.6	1.7	5.3	4.2	6.4	9.2	.6	100.
6	8.1	5.9	1.7	2.5	2.8	2.5	8.1	12.3	15.6	6.7	5.0	3.1	4.5	4.7	7.0	9.2	.3	100.
7	8.1	3.4	2.8	2.2	1.7	3.4	8.4	14.5	17.0	6.4	3.1	3.4	5.6	4.7	6.1	8.1	1.1	100.
8	7.3	6.2	3.1	2.5	3.1	4.5	8.7	12.0	17.9	6.4	3.4	1.4	4.8	5.3	7.0	6.2	.3	100.
9	6.7	7.9	3.4	2.2	1.7	7.0	9.0	11.0	17.7	9.0	2.0	2.5	3.7	3.9	5.9	6.5	00.0	100.
10	6.5	6.5	3.4	2.8	2.2	4.5	10.7	6.5	18.5	11.8	2.8	3.9	1.7	4.8	7.0	6.5	00.0	100.
11	7.9	5.6	2.5	3.1	2.5	6.2	9.6	8.1	16.6	10.1	3.4	4.5	3.1	4.8	5.9	6.2	00.0	100.
12	7.3	5.6	4.8	1.4	3.1	4.5	9.3	8.1	17.1	12.6	3.1	3.1	3.1	5.9	4.8	6.2	00.0	100.
13	5.6	4.8	3.1	3.4	1.7	6.2	8.1	7.6	17.9	11.8	2.2	2.5	4.8	6.4	7.0	6.7	.3	100.
14	5.1	6.5	2.8	2.5	2.0	5.1	8.1	8.4	16.6	12.1	2.8	2.8	3.4	7.9	5.9	8.1	00.0	100.
15	7.3	4.5	2.5	2.2	2.2	4.8	9.0	8.4	18.3	8.7	3.1	1.7	3.4	7.9	6.5	9.6	00.0	100.
16	7.3	4.8	1.7	3.4	2.0	5.9	7.8	9.0	18.5	7.6	3.6	1.1	3.1	7.0	7.0	10.4	00.0	100.
17	6.2	5.9	2.0	2.5	3.6	3.6	10.1	9.8	17.1	7.6	3.4	1.1	2.8	6.7	7.0	10.6	00.0	100.
18	7.0	3.1	4.2	3.4	2.2	4.5	10.9	10.6	16.5	6.1	3.6	2.0	3.1	4.7	6.7	11.5	00.0	100.
19	7.5	3.1	3.4	3.6	3.9	3.4	12.0	11.2	13.7	5.3	3.4	2.0	3.6	3.9	7.8	12.0	.3	100.
20	9.8	3.9	2.8	1.7	2.8	3.6	11.5	12.0	11.7	7.3	3.1	1.7	3.1	5.9	7.3	11.2	.8	100.
21	11.5	3.6	3.1	1.1	1.4	3.6	9.5	12.8	13.7	7.0	3.1	3.4	2.8	3.9	7.0	12.0	.6	100.
22	9.2	4.7	2.8	2.2	1.4	2.0	10.9	12.3	13.7	9.2	2.8	3.6	2.0	3.6	7.8	11.5	.3	100.
23	10.3	5.0	2.5	1.1	2.8	2.5	6.4	13.4	17.3	7.8	3.9	2.8	2.5	5.0	8.4	7.5	.6	100.
24	9.2	3.1	2.8	2.0	2.8	2.2	7.0	10.6	18.2	7.8	2.8	1.7	5.0	5.3	8.7	10.1	.8	100.
ALL	8.0	4.6	2.7	2.6	2.3	3.8	8.7	10.8	16.7	8.3	3.4	2.5	3.6	5.2	6.9	9.2	.4	100.

NUMBER OF OBS = 8576

Wind Direction Frequencies

100-Meter Level

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JANUARY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	19.4	3.2	6.5	6.5	00.0	00.0	6.5	9.7	12.9	6.5	00.0	00.0	3.2	00.0	9.7	16.1	00.0	100.
2	12.9	6.5	3.2	6.5	00.0	00.0	6.5	9.7	12.9	3.2	3.2	00.0	00.0	3.2	9.7	22.6	00.0	100.
3	6.5	6.5	3.2	3.2	3.2	00.0	3.2	12.9	9.7	6.5	3.2	00.0	00.0	6.5	3.2	29.0	3.2	100.
4	16.1	3.2	3.2	3.2	6.5	00.0	12.9	6.5	12.9	3.2	00.0	3.2	00.0	6.5	6.5	16.1	00.0	100.
5	19.4	6.5	00.0	6.5	3.2	3.2	9.7	9.7	6.5	6.5	3.2	3.2	00.0	00.0	12.9	9.7	00.0	100.
6	16.1	6.5	3.2	6.5	3.2	6.5	6.5	12.9	00.0	3.2	9.7	00.0	3.2	00.0	12.9	9.7	00.0	100.
7	16.1	3.2	6.5	3.2	3.2	9.7	3.2	9.7	6.5	6.5	6.5	00.0	3.2	3.2	9.7	9.7	00.0	100.
8	16.1	6.5	00.0	6.5	00.0	19.4	00.0	9.7	9.7	00.0	3.2	3.2	6.5	6.5	9.7	3.2	00.0	100.
9	12.9	9.7	00.0	3.2	3.2	16.1	9.7	6.5	9.7	00.0	3.2	3.2	3.2	9.7	3.2	6.5	00.0	100.
10	16.1	3.2	3.2	00.0	3.2	9.7	9.7	6.5	12.9	00.0	3.2	3.2	3.2	12.9	3.2	9.7	00.0	100.
11	12.9	12.9	00.0	00.0	00.0	6.5	16.1	3.2	12.9	6.5	3.2	00.0	6.5	6.5	6.5	6.5	00.0	100.
12	16.1	6.5	6.5	00.0	00.0	6.5	16.1	3.2	9.7	3.2	6.5	00.0	6.5	9.7	3.2	6.5	00.0	100.
13	16.1	6.5	3.2	00.0	00.0	9.7	6.5	6.5	9.7	00.0	9.7	6.5	00.0	9.7	9.7	6.5	00.0	100.
14	12.9	12.9	00.0	00.0	00.0	6.5	12.9	3.2	6.5	9.7	6.5	00.0	9.7	3.2	6.5	9.7	00.0	100.
15	22.6	9.7	00.0	00.0	00.0	9.7	16.1	3.2	3.2	9.7	00.0	3.2	3.2	6.5	3.2	9.7	00.0	100.
16	12.9	12.9	00.0	00.0	00.0	9.7	12.9	6.5	3.2	12.9	00.0	00.0	00.0	6.5	6.5	16.1	00.0	100.
17	6.5	16.1	3.2	00.0	00.0	6.5	12.9	9.7	9.7	6.5	00.0	00.0	00.0	00.0	6.5	22.6	00.0	100.
18	22.6	3.2	00.0	3.2	00.0	16.1	6.5	6.5	9.7	9.7	00.0	00.0	00.0	00.0	6.5	16.1	00.0	100.
19	16.1	6.5	00.0	3.2	3.2	16.1	3.2	9.7	6.5	00.0	3.2	3.2	00.0	3.2	3.2	22.6	00.0	100.
20	22.6	6.5	00.0	6.5	6.5	3.2	9.7	6.5	9.7	00.0	3.2	3.2	00.0	00.0	3.2	16.1	3.2	100.
21	16.1	9.7	3.2	00.0	3.2	9.7	6.5	9.7	6.5	00.0	3.2	3.2	00.0	6.5	3.2	19.4	00.0	100.
22	19.4	6.5	6.5	00.0	00.0	3.2	12.9	9.7	9.7	3.2	00.0	3.2	00.0	00.0	3.2	22.6	00.0	100.
23	22.6	6.5	6.5	00.0	00.0	00.0	16.1	6.5	6.5	9.7	00.0	3.2	00.0	00.0	9.7	12.9	00.0	100.
24	22.6	3.2	9.7	00.0	00.0	3.2	3.2	9.7	12.9	9.7	00.0	00.0	3.2	00.0	9.7	12.9	00.0	100.
ALL	16.4	7.3	2.8	2.4	1.6	7.1	9.1	7.8	8.7	4.8	3.0	1.7	2.2	4.2	6.7	13.8	.3	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

FEBRUARY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	17.9	3.6	00.0	00.0	3.6	3.6	7.1	14.3	7.1	7.1	7.1	7.1	00.0	3.6	7.1	10.7	00.0	100.
2	21.4	3.6	00.0	00.0	3.6	00.0	17.9	7.1	3.6	7.1	3.6	7.1	00.0	7.1	7.1	10.7	00.0	100.
3	14.3	10.7	00.0	00.0	00.0	3.6	10.7	10.7	7.1	10.7	3.6	3.6	00.0	3.6	17.9	3.6	00.0	100.
4	10.7	7.1	7.1	00.0	3.6	00.0	7.1	14.3	3.6	10.7	3.6	7.1	3.6	3.6	14.3	3.6	00.0	100.
5	14.3	7.1	3.6	00.0	00.0	3.6	14.3	3.6	7.1	3.6	14.3	3.6	3.6	7.1	7.1	7.1	00.0	100.
6	10.7	14.3	00.0	00.0	00.0	3.6	7.1	7.1	14.3	00.0	14.3	10.7	00.0	7.1	3.6	7.1	00.0	100.
7	10.7	10.7	3.6	00.0	00.0	3.6	7.1	10.7	10.7	00.0	14.3	3.6	7.1	7.1	7.1	3.6	00.0	100.
8	10.7	7.1	3.6	3.6	00.0	3.6	10.7	7.1	7.1	7.1	10.7	00.0	10.7	3.6	7.1	7.1	00.0	100.
9	7.1	10.7	3.6	3.6	00.0	00.0	14.3	7.1	3.6	10.7	7.1	3.6	3.6	3.6	17.9	3.6	00.0	100.
10	7.1	7.1	3.6	00.0	00.0	3.6	10.7	10.7	3.6	3.6	14.3	3.6	00.0	7.1	14.3	10.7	00.0	100.
11	14.3	3.6	00.0	3.6	00.0	3.6	10.7	10.7	7.1	10.7	3.6	7.1	3.6	3.6	7.1	10.7	00.0	100.
12	17.9	00.0	3.6	00.0	00.0	10.7	7.1	10.7	7.1	21.4	00.0	00.0	00.0	10.7	7.1	3.6	00.0	100.
13	14.3	3.6	3.6	3.6	00.0	7.1	3.6	14.3	3.6	17.9	3.6	3.6	00.0	14.3	7.1	00.0	00.0	100.
14	14.3	00.0	00.0	3.6	3.6	00.0	10.7	10.7	10.7	14.3	00.0	3.6	3.6	10.7	10.7	3.6	00.0	100.
15	10.7	00.0	7.1	00.0	3.6	00.0	14.3	7.1	7.1	14.3	3.6	00.0	7.1	7.1	7.1	10.7	00.0	100.
16	21.4	00.0	3.6	00.0	00.0	3.6	7.1	14.3	7.1	14.3	3.6	00.0	10.7	3.6	7.1	3.6	00.0	100.
17	25.0	7.1	00.0	00.0	7.1	00.0	7.1	10.7	7.1	7.1	7.1	00.0	00.0	14.3	7.1	00.0	00.0	100.
18	21.4	3.6	00.0	3.6	7.1	3.6	10.7	3.6	10.7	3.6	7.1	00.0	3.6	3.6	10.7	7.1	00.0	100.
19	14.3	00.0	3.6	10.7	3.6	3.6	7.1	7.1	14.3	00.0	7.1	00.0	3.6	7.1	10.7	7.1	00.0	100.
20	10.7	7.1	00.0	3.6	3.6	7.1	17.9	00.0	10.7	3.6	7.1	00.0	3.6	3.6	10.7	10.7	00.0	100.
21	3.6	3.6	3.6	3.6	3.6	3.6	10.7	10.7	10.7	00.0	7.1	3.6	3.6	00.0	3.6	28.6	00.0	100.
22	7.1	3.6	7.1	00.0	3.6	3.6	10.7	7.1	10.7	00.0	7.1	7.1	3.6	00.0	7.1	21.4	00.0	100.
23	10.7	3.6	00.0	7.1	00.0	7.1	3.6	10.7	10.7	3.6	10.7	3.6	3.6	00.0	7.1	17.9	00.0	100.
24	14.3	7.1	00.0	00.0	3.6	7.1	10.7	3.6	10.7	7.1	3.6	7.1	3.6	00.0	7.1	14.3	00.0	100.
ALL	13.5	5.2	2.4	1.9	2.1	3.6	10.0	8.9	8.2	7.4	6.8	3.6	3.3	5.5	8.9	8.6	00.0	100.

NUMBER OF OBS = 672

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

MARCH

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	13.8	3.4	00.0	00.0	10.3	3.4	3.4	3.4	6.9	10.3	6.9	3.4	00.0	6.9	17.2	10.3	00.0	100.
2	10.3	10.3	00.0	3.4	3.4	6.9	3.4	3.4	6.9	10.3	10.3	3.4	00.0	3.4	17.2	6.9	00.0	100.
3	6.9	00.0	6.9	3.4	3.4	6.9	3.4	3.4	3.4	13.8	10.3	00.0	00.0	00.0	24.1	13.8	00.0	100.
4	10.3	00.0	3.4	6.9	3.4	6.9	3.4	3.4	6.9	13.8	10.3	00.0	00.0	00.0	20.7	10.3	00.0	100.
5	20.7	00.0	00.0	6.9	3.4	6.9	00.0	6.9	6.9	3.4	17.2	3.4	00.0	00.0	20.7	3.4	00.0	100.
6	17.2	00.0	6.9	3.4	00.0	13.8	00.0	3.4	6.9	3.4	6.9	6.9	00.0	17.2	10.3	3.4	00.0	100.
7	20.7	3.4	6.9	00.0	00.0	17.2	00.0	3.4	10.3	00.0	10.3	3.4	00.0	13.8	6.9	3.4	00.0	100.
8	20.7	6.9	3.4	3.4	00.0	10.3	3.4	3.4	6.9	10.3	3.4	3.4	3.4	3.4	13.8	3.4	00.0	100.
9	13.8	17.2	3.4	00.0	00.0	13.8	3.4	00.0	6.9	13.8	3.4	3.4	3.4	6.9	3.4	6.9	00.0	100.
10	10.3	20.7	3.4	3.4	00.0	6.9	6.9	00.0	3.4	17.2	6.9	3.4	3.4	00.0	3.4	10.3	00.0	100.
11	10.3	13.8	6.9	00.0	00.0	10.3	3.4	00.0	6.9	13.8	6.9	6.9	3.4	00.0	3.4	13.8	00.0	100.
12	13.8	6.9	10.3	00.0	00.0	13.8	3.4	3.4	3.4	13.8	10.3	00.0	3.4	6.9	3.4	6.9	00.0	100.
13	3.4	13.8	3.4	3.4	00.0	13.8	3.4	00.0	6.9	13.8	6.9	00.0	3.4	6.9	6.9	13.8	00.0	100.
14	10.7	14.3	00.0	3.6	10.7	3.6	00.0	3.6	3.6	10.7	7.1	3.6	3.6	7.1	14.3	3.6	00.0	100.
15	10.7	10.7	3.6	00.0	3.6	7.1	3.6	3.6	00.0	10.7	7.1	3.6	00.0	21.4	7.1	7.1	00.0	100.
16	10.7	10.7	00.0	00.0	3.6	10.7	3.6	00.0	00.0	17.9	00.0	7.1	7.1	7.1	10.7	10.7	00.0	100.
17	7.1	10.7	00.0	3.6	7.1	3.6	3.6	00.0	00.0	10.7	7.1	3.6	7.1	14.3	7.1	14.3	00.0	100.
18	7.1	7.1	7.1	00.0	3.6	7.1	00.0	3.6	3.6	14.3	00.0	7.1	7.1	7.1	7.1	17.9	00.0	100.
19	00.0	7.1	10.7	3.6	3.6	3.6	00.0	3.6	7.1	10.7	3.6	3.6	7.1	7.1	7.1	21.4	00.0	100.
20	7.1	14.3	7.1	10.7	00.0	7.1	00.0	3.6	10.7	7.1	3.6	7.1	3.6	3.6	7.1	7.1	00.0	100.
21	10.7	3.6	3.6	00.0	14.3	3.6	3.6	10.7	7.1	10.7	7.1	00.0	3.6	3.6	3.6	14.3	00.0	100.
22	7.1	7.1	3.6	00.0	7.1	10.7	00.0	14.3	3.6	10.7	7.1	00.0	3.6	3.6	10.7	10.7	00.0	100.
23	7.1	7.1	3.6	3.6	3.6	7.1	7.1	3.6	10.7	10.7	3.6	3.6	00.0	3.6	10.7	14.3	00.0	100.
24	10.7	7.1	3.6	3.6	7.1	3.6	3.6	7.1	10.7	7.1	3.6	7.1	00.0	3.6	14.3	7.1	00.0	100.
ALL	10.9	8.2	4.1	2.6	3.6	8.3	2.6	3.6	5.8	10.8	6.7	3.5	2.6	6.1	10.5	9.8	00.0	100.

NUMBER OF OBS = 685

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-MAR

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	17.0	3.4	2.3	2.3	4.5	2.3	5.7	9.1	9.1	8.0	4.5	3.4	1.1	3.4	11.4	12.5	00.0	100.
2	14.8	6.8	1.1	3.4	2.3	2.3	9.1	6.8	8.0	6.8	5.7	3.4	00.0	4.5	11.4	13.6	00.0	100.
3	9.1	5.7	3.4	2.3	2.3	3.4	5.7	9.1	6.8	10.2	5.7	1.1	00.0	3.4	14.8	15.9	1.1	100.
4	12.5	3.4	4.5	3.4	4.5	2.3	8.0	8.0	8.0	9.1	4.5	3.4	1.1	3.4	13.6	10.2	00.0	100.
5	18.2	4.5	1.1	4.5	2.3	4.5	8.0	6.8	6.8	4.5	11.4	3.4	1.1	2.3	13.6	6.8	00.0	100.
6	14.8	6.8	3.4	3.4	1.1	8.0	4.5	8.0	6.8	2.3	10.2	5.7	1.1	8.0	9.1	6.8	00.0	100.
7	15.9	5.7	5.7	1.1	1.1	10.2	3.4	8.0	9.1	2.3	10.2	2.3	3.4	8.0	8.0	5.7	00.0	100.
8	15.9	6.8	2.3	4.5	00.0	11.4	4.5	6.8	8.0	5.7	5.7	2.3	6.8	4.5	10.2	4.5	00.0	100.
9	11.4	12.5	2.3	2.3	1.1	10.2	9.1	4.5	6.8	8.0	4.5	3.4	3.4	6.8	8.0	5.7	00.0	100.
10	11.4	10.2	3.4	1.1	1.1	6.8	9.1	5.7	6.8	6.8	8.0	3.4	2.3	6.8	6.8	10.2	00.0	100.
11	12.5	10.2	2.3	1.1	00.0	6.8	10.2	4.5	9.1	10.2	4.5	4.5	4.5	3.4	5.7	10.2	00.0	100.
12	15.9	4.5	6.8	00.0	00.0	10.2	9.1	5.7	6.8	12.5	5.7	00.0	3.4	9.1	4.5	5.7	00.0	100.
13	11.4	8.0	3.4	2.3	00.0	10.2	4.5	6.8	6.8	10.2	6.8	3.4	1.1	10.2	8.0	6.8	00.0	100.
14	12.6	9.2	00.0	2.3	4.6	3.4	8.0	5.7	6.9	11.5	4.6	2.3	5.7	6.9	10.3	5.7	00.0	100.
15	14.9	6.9	3.4	00.0	2.3	5.7	11.5	4.6	3.4	11.5	3.4	2.3	3.4	11.5	5.7	9.2	00.0	100.
16	14.9	8.0	1.1	00.0	1.1	8.0	8.0	6.9	3.4	14.9	1.1	2.3	5.7	5.7	8.0	10.3	00.0	100.
17	12.6	11.5	1.1	1.1	4.6	3.4	8.0	6.9	5.7	8.0	4.6	1.1	2.3	9.2	6.9	12.6	00.0	100.
18	17.2	4.6	2.3	2.3	3.4	9.2	5.7	4.6	8.0	9.2	2.3	2.3	3.4	3.4	8.0	13.8	00.0	100.
19	10.3	4.6	4.6	5.7	3.4	8.0	3.4	6.9	9.2	3.4	4.6	2.3	3.4	5.7	6.9	17.2	00.0	100.
20	13.8	9.2	2.3	6.9	3.4	5.7	9.2	3.4	10.3	3.4	4.6	3.4	2.3	2.3	6.9	11.5	1.1	100.
21	10.3	5.7	3.4	1.1	6.9	5.7	6.9	10.3	8.0	3.4	5.7	2.3	2.3	3.4	3.4	20.7	00.0	100.
22	11.5	5.7	5.7	00.0	3.4	5.7	8.0	10.3	8.0	4.6	4.6	3.4	2.3	1.1	6.9	18.4	00.0	100.
23	13.8	5.7	3.4	3.4	1.1	4.6	9.2	6.9	9.2	8.0	4.6	3.4	1.1	1.1	9.2	14.9	00.0	100.
24	16.1	5.7	4.6	1.1	3.4	4.6	5.7	6.9	11.5	8.0	2.3	4.6	2.3	1.1	10.3	11.5	00.0	100.
ALL	13.7	6.9	3.1	2.3	2.4	6.4	7.3	6.8	7.6	7.6	5.4	2.9	2.7	5.2	8.7	10.9	.1	100.

NUMBER OF OBS = 2101

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

APRIL

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	10.7	00.0	3.6	7.1	3.6	00.0	7.1	14.3	14.3	7.1	3.6	3.6	00.0	7.1	00.0	17.9	00.0	100.
2	3.6	7.1	00.0	00.0	7.1	3.6	7.1	14.3	14.3	7.1	3.6	00.0	3.6	7.1	3.6	17.9	00.0	100.
3	3.6	3.6	00.0	3.6	00.0	3.6	00.0	14.3	14.3	7.1	10.7	00.0	7.1	3.6	3.6	25.0	00.0	100.
4	3.6	10.7	3.6	00.0	3.6	00.0	00.0	14.3	14.3	10.7	3.6	00.0	7.1	7.1	10.7	10.7	00.0	100.
5	10.7	00.0	00.0	3.6	3.6	00.0	3.6	17.9	10.7	3.6	7.1	00.0	7.1	00.0	14.3	17.9	00.0	100.
6	7.1	3.6	3.6	00.0	00.0	7.1	7.1	10.7	17.9	00.0	7.1	00.0	3.6	10.7	10.7	10.7	00.0	100.
7	10.7	3.6	00.0	00.0	00.0	7.1	10.7	14.3	14.3	3.6	00.0	3.6	3.6	7.1	7.1	14.3	00.0	100.
8	7.4	7.4	00.0	00.0	00.0	11.1	7.4	14.8	11.1	00.0	3.7	7.4	3.7	3.7	11.1	11.1	00.0	100.
9	11.1	00.0	7.4	00.0	00.0	3.7	7.4	14.8	18.5	00.0	00.0	3.7	7.4	00.0	14.8	11.1	00.0	100.
10	11.1	7.4	00.0	00.0	3.7	00.0	18.5	3.7	11.1	11.1	00.0	3.7	00.0	7.4	11.1	11.1	00.0	100.
11	3.7	11.1	00.0	00.0	3.7	3.7	7.4	18.5	14.8	3.7	00.0	3.7	00.0	7.4	11.1	11.1	00.0	100.
12	7.4	7.4	00.0	00.0	00.0	7.4	11.1	18.5	11.1	3.7	3.7	00.0	00.0	7.4	11.1	11.1	00.0	100.
13	3.6	7.1	00.0	00.0	00.0	7.1	10.7	10.7	21.4	00.0	3.6	00.0	00.0	7.1	10.7	17.9	00.0	100.
14	10.7	7.1	00.0	00.0	00.0	3.6	14.3	10.7	14.3	7.1	3.6	00.0	00.0	7.1	7.1	14.3	00.0	100.
15	3.6	10.7	00.0	00.0	00.0	7.1	14.3	7.1	17.9	3.6	00.0	00.0	3.6	3.6	7.1	21.4	00.0	100.
16	3.4	3.4	3.4	00.0	00.0	3.4	6.9	17.2	20.7	3.4	00.0	00.0	3.4	6.9	6.9	20.7	00.0	100.
17	6.9	00.0	6.9	00.0	00.0	3.4	6.9	17.2	20.7	00.0	00.0	3.4	3.4	6.9	6.9	17.2	00.0	100.
18	3.4	00.0	00.0	6.9	3.4	3.4	13.8	6.9	17.2	3.4	00.0	00.0	3.4	10.3	10.3	17.2	00.0	100.
19	10.3	00.0	00.0	3.4	3.4	3.4	13.8	13.8	10.3	3.4	3.4	00.0	6.9	6.9	10.3	10.3	00.0	100.
20	6.9	3.4	00.0	3.4	00.0	6.9	10.3	20.7	6.9	3.4	00.0	00.0	10.3	3.4	10.3	13.8	00.0	100.
21	6.9	3.4	00.0	6.9	3.4	00.0	13.8	17.2	6.9	00.0	3.4	3.4	3.4	6.9	10.3	13.8	00.0	100.
22	10.3	00.0	00.0	3.4	6.9	00.0	10.3	13.8	17.2	00.0	00.0	6.9	3.4	3.4	10.3	13.8	00.0	100.
23	3.4	3.4	00.0	3.4	6.9	00.0	3.4	20.7	10.3	6.9	3.4	00.0	3.4	10.3	6.9	17.2	00.0	100.
24	6.9	00.0	3.4	3.4	3.4	3.4	3.4	24.1	10.3	3.4	00.0	6.9	00.0	6.9	6.9	17.2	00.0	100.
ALL	7.0	4.1	1.3	1.9	2.2	3.7	8.7	14.6	14.2	3.8	2.5	1.9	3.6	6.2	8.9	15.2	00.0	100.

NUMBER OF OBS = 676

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

MAY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	9.7	9.7	00.0	00.0	6.5	3.2	6.5	16.1	9.7	12.9	00.0	6.5	3.2	6.5	3.2	6.5	00.0	100.
2	6.5	6.5	3.2	6.5	00.0	6.5	3.2	12.9	16.1	12.9	00.0	6.5	00.0	6.5	9.7	3.2	00.0	100.
3	3.2	6.5	3.2	00.0	9.7	6.5	3.2	12.9	16.1	12.9	3.2	3.2	00.0	6.5	9.7	3.2	00.0	100.
4	3.2	00.0	9.7	3.2	6.5	9.7	3.2	9.7	19.4	3.2	9.7	3.2	3.2	6.5	9.7	00.0	00.0	100.
5	6.5	3.2	6.5	3.2	3.2	9.7	00.0	12.9	16.1	6.5	6.5	6.5	00.0	6.5	9.7	3.2	00.0	100.
6	9.7	00.0	3.2	3.2	6.5	9.7	3.2	9.7	16.1	6.5	6.5	6.5	6.5	6.5	3.2	3.2	00.0	100.
7	16.1	3.2	00.0	3.2	6.5	6.5	3.2	9.7	19.4	3.2	3.2	6.5	3.2	9.7	6.5	00.0	00.0	100.
8	9.7	00.0	3.2	3.2	6.5	6.5	3.2	6.5	22.6	9.7	3.2	3.2	6.5	9.7	6.5	00.0	00.0	100.
9	6.5	3.2	3.2	3.2	00.0	16.1	3.2	3.2	25.8	3.2	3.2	3.2	3.2	3.2	19.4	00.0	00.0	100.
10	9.7	00.0	3.2	00.0	3.2	9.7	12.9	00.0	19.4	9.7	3.2	3.2	3.2	9.7	9.7	3.2	00.0	100.
11	00.0	9.7	00.0	3.2	3.2	6.5	12.9	00.0	19.4	9.7	3.2	3.2	00.0	6.5	16.1	6.5	00.0	100.
12	3.2	6.5	3.2	00.0	00.0	6.5	9.7	6.5	19.4	9.7	3.2	3.2	3.2	6.5	9.7	9.7	00.0	100.
13	3.2	6.5	00.0	3.2	00.0	3.2	16.1	6.5	19.4	3.2	00.0	3.2	6.5	9.7	12.9	6.5	00.0	100.
14	3.2	00.0	9.7	3.2	00.0	3.2	6.5	12.9	12.9	9.7	00.0	3.2	9.7	3.2	12.9	9.7	00.0	100.
15	00.0	00.0	9.7	3.2	00.0	00.0	9.7	6.5	22.6	6.5	00.0	00.0	3.2	16.1	16.1	6.5	00.0	100.
16	00.0	00.0	00.0	9.7	3.2	3.2	3.2	9.7	25.8	00.0	00.0	3.2	3.2	12.9	16.1	9.7	00.0	100.
17	00.0	00.0	6.5	3.2	3.2	3.2	3.2	12.9	19.4	3.2	3.2	00.0	6.5	6.5	6.5	22.6	00.0	100.
18	00.0	00.0	00.0	9.7	3.2	6.5	00.0	19.4	16.1	3.2	3.2	00.0	6.5	3.2	12.9	16.1	00.0	100.
19	00.0	00.0	00.0	3.2	9.7	3.2	9.7	6.5	19.4	3.2	3.2	6.5	3.2	00.0	3.2	29.0	00.0	100.
20	00.0	00.0	3.2	00.0	6.5	12.9	3.2	12.9	9.7	3.2	9.7	00.0	6.5	6.5	6.5	19.4	00.0	100.
21	12.9	3.2	00.0	3.2	00.0	9.7	12.9	12.9	9.7	6.5	6.5	00.0	3.2	00.0	6.5	12.9	00.0	100.
22	6.5	00.0	00.0	6.5	6.5	12.9	3.2	22.6	6.5	6.5	3.2	00.0	3.2	00.0	3.2	19.4	00.0	100.
23	6.5	00.0	3.2	00.0	3.2	16.1	6.5	9.7	16.1	9.7	3.2	00.0	3.2	00.0	9.7	12.9	00.0	100.
24	3.2	3.2	9.7	00.0	00.0	6.5	12.9	9.7	12.9	12.9	3.2	00.0	3.2	9.7	00.0	12.9	00.0	100.
ALL	5.0	2.6	3.4	3.1	3.6	7.4	6.3	10.1	17.1	7.0	3.4	3.0	3.8	6.3	9.1	9.0	00.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUNE

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	00.0	00.0	00.0	00.0	3.3	10.0	16.7	16.7	26.7	10.0	00.0	00.0	00.0	3.3	3.3	10.0	00.0	100.
2	6.7	3.3	00.0	00.0	3.3	3.3	16.7	20.0	23.3	10.0	3.3	00.0	6.7	00.0	3.3	00.0	00.0	100.
3	00.0	3.3	00.0	3.3	3.3	10.0	10.0	16.7	23.3	23.3	00.0	00.0	3.3	3.3	00.0	00.0	00.0	100.
4	00.0	3.3	00.0	00.0	6.7	3.3	13.3	20.0	20.0	20.0	6.7	00.0	3.3	3.3	00.0	00.0	00.0	100.
5	00.0	3.3	00.0	00.0	00.0	10.0	6.7	23.3	16.7	26.7	3.3	00.0	3.3	3.3	00.0	3.3	00.0	100.
6	00.0	3.3	00.0	00.0	3.3	10.0	13.3	16.7	20.0	20.0	3.3	00.0	3.3	3.3	3.3	00.0	00.0	100.
7	00.0	00.0	00.0	3.3	3.3	6.7	10.0	20.0	6.7	30.0	6.7	3.3	6.7	3.3	00.0	00.0	00.0	100.
8	00.0	00.0	3.3	00.0	00.0	16.7	6.7	10.0	26.7	13.3	6.7	3.3	10.0	00.0	3.3	00.0	00.0	100.
9	00.0	3.3	00.0	3.3	00.0	6.7	13.3	10.0	23.3	16.7	6.7	6.7	3.3	3.3	3.3	00.0	00.0	100.
10	00.0	00.0	3.3	00.0	3.3	6.7	10.0	16.7	16.7	20.0	6.7	6.7	3.3	3.3	3.3	00.0	00.0	100.
11	00.0	00.0	00.0	6.7	3.3	6.7	10.0	10.0	30.0	10.0	10.0	3.3	3.3	6.7	00.0	00.0	00.0	100.
12	00.0	00.0	00.0	00.0	6.7	6.7	10.0	20.0	26.7	16.7	3.3	3.3	00.0	6.7	00.0	00.0	00.0	100.
13	00.0	00.0	00.0	00.0	3.3	6.7	6.7	23.3	26.7	10.0	6.7	6.7	00.0	10.0	00.0	00.0	00.0	100.
14	00.0	00.0	00.0	00.0	00.0	10.0	10.0	16.7	30.0	6.7	6.7	00.0	3.3	10.0	3.3	3.3	00.0	100.
15	00.0	3.3	00.0	3.3	00.0	6.7	10.0	16.7	33.3	6.7	3.3	00.0	3.3	6.7	00.0	6.7	00.0	100.
16	00.0	3.3	3.3	00.0	3.3	6.7	10.0	20.0	30.0	6.7	3.3	00.0	3.3	3.3	3.3	3.3	00.0	100.
17	3.3	00.0	00.0	00.0	6.7	3.3	20.0	10.0	36.7	6.7	6.7	00.0	3.3	3.3	00.0	00.0	00.0	100.
18	3.3	00.0	00.0	3.3	3.3	6.7	23.3	10.0	30.0	10.0	3.3	00.0	3.3	3.3	00.0	00.0	00.0	100.
19	3.3	00.0	00.0	3.3	3.3	6.7	30.0	10.0	20.0	6.7	6.7	6.7	00.0	00.0	3.3	00.0	00.0	100.
20	00.0	00.0	3.3	3.3	3.3	00.0	23.3	26.7	16.7	10.0	00.0	6.7	00.0	00.0	6.7	00.0	00.0	100.
21	00.0	00.0	00.0	6.7	3.3	00.0	26.7	30.0	16.7	00.0	6.7	3.3	00.0	3.3	3.3	00.0	00.0	100.
22	00.0	00.0	00.0	6.7	3.3	6.7	20.0	23.3	26.7	00.0	3.3	3.3	3.3	3.3	00.0	00.0	00.0	100.
23	00.0	3.3	00.0	3.3	00.0	3.3	20.0	20.0	30.0	6.7	00.0	00.0	6.7	6.7	00.0	00.0	00.0	100.
24	3.3	3.3	00.0	00.0	3.3	6.7	13.3	13.3	30.0	10.0	3.3	00.0	3.3	3.3	6.7	00.0	00.0	100.
ALL	.8	1.4	.6	1.9	2.9	6.7	14.6	17.5	24.4	12.4	4.4	2.2	3.2	3.9	1.9	1.1	00.0	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

APR-JUN

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.7	3.4	1.1	2.2	4.5	4.5	10.1	15.7	16.9	10.1	1.1	3.4	1.1	5.6	2.2	11.2	00.0	100.
2	5.6	5.6	1.1	2.2	3.4	4.5	9.0	15.7	18.0	10.1	2.2	2.2	3.4	4.5	5.6	6.7	00.0	100.
3	2.2	4.5	1.1	2.2	4.5	6.7	4.5	14.6	18.0	14.6	4.5	1.1	3.4	4.5	4.5	9.0	00.0	100.
4	2.2	4.5	4.5	1.1	5.6	4.5	5.6	14.6	18.0	11.2	6.7	1.1	4.5	5.6	6.7	3.4	00.0	100.
5	5.6	2.2	2.2	2.2	2.2	6.7	3.4	18.0	14.6	12.4	5.6	2.2	3.4	3.4	7.9	7.9	00.0	100.
6	5.6	2.2	2.2	1.1	3.4	9.0	7.9	12.4	18.0	9.0	5.6	2.2	4.5	6.7	5.6	4.5	00.0	100.
7	9.0	2.2	00.0	2.2	3.4	6.7	7.9	14.6	13.5	12.4	3.4	4.5	4.5	6.7	4.5	4.5	00.0	100.
8	5.7	2.3	2.3	1.1	2.3	11.4	5.7	10.2	20.5	8.0	4.5	4.5	6.8	4.5	6.8	3.4	00.0	100.
9	5.7	2.3	3.4	2.3	00.0	9.1	8.0	9.1	22.7	6.8	3.4	4.5	4.5	2.3	12.5	3.4	00.0	100.
10	6.8	2.3	2.3	00.0	3.4	5.7	13.6	6.8	15.9	13.6	3.4	4.5	2.3	6.8	8.0	4.5	00.0	100.
11	1.1	6.8	00.0	3.4	3.4	5.7	10.2	9.1	21.6	8.0	4.5	3.4	1.1	6.8	9.1	5.7	00.0	100.
12	3.4	4.5	1.1	00.0	2.3	6.8	10.2	14.8	19.3	10.2	3.4	2.3	1.1	6.8	6.8	6.8	00.0	100.
13	2.2	4.5	00.0	1.1	1.1	5.6	11.2	13.5	22.5	4.5	3.4	3.4	2.2	9.0	7.9	7.9	00.0	100.
14	4.5	2.2	3.4	1.1	00.0	5.6	10.1	13.5	19.1	7.9	3.4	1.1	4.5	6.7	7.9	9.0	00.0	100.
15	1.1	4.5	3.4	2.2	00.0	4.5	11.2	10.1	24.7	5.6	1.1	00.0	3.4	9.0	7.9	11.2	00.0	100.
16	1.1	2.2	2.2	3.3	2.2	4.4	6.7	15.6	25.6	3.3	1.1	1.1	3.3	7.8	8.9	11.1	00.0	100.
17	3.3	00.0	4.4	1.1	3.3	3.3	10.0	13.3	25.6	3.3	3.3	1.1	4.4	5.6	4.4	13.3	00.0	100.
18	2.2	00.0	00.0	6.7	3.3	5.6	12.2	12.2	21.1	5.6	2.2	00.0	4.4	5.6	7.8	11.1	00.0	100.
19	4.4	00.0	00.0	3.3	5.6	4.4	17.8	10.0	16.7	4.4	4.4	4.4	3.3	2.2	5.6	13.3	00.0	100.
20	2.2	1.1	2.2	2.2	3.3	6.7	12.2	20.0	11.1	5.6	3.3	2.2	5.6	3.3	7.8	11.1	00.0	100.
21	6.7	2.2	00.0	5.6	2.2	3.3	17.8	20.0	11.1	2.2	5.6	2.2	2.2	3.3	6.7	8.9	00.0	100.
22	5.6	00.0	00.0	5.6	5.6	6.7	11.1	20.0	16.7	2.2	2.2	3.3	3.3	2.2	4.4	11.1	00.0	100.
23	3.3	2.2	1.1	2.2	3.3	6.7	10.0	16.7	18.9	7.8	2.2	00.0	4.4	5.6	5.6	10.0	00.0	100.
24	4.4	2.2	4.4	1.1	2.2	5.6	10.0	15.6	17.8	8.9	2.2	2.2	2.2	6.7	4.4	10.0	00.0	100.
ALL	4.2	2.7	1.8	2.3	2.9	6.0	9.9	14.0	18.6	7.8	3.5	2.4	3.5	5.5	6.6	8.3	00.0	100.

NUMBER OF OBS = 2140

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-JUN

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	11.9	3.4	1.7	2.3	4.5	3.4	7.9	12.4	13.0	9.0	2.8	3.4	1.1	4.5	6.8	11.9	00.0	100.
2	10.2	6.2	1.1	2.8	2.8	3.4	9.0	11.3	13.0	8.5	4.0	2.8	1.7	4.5	8.5	10.2	00.0	100.
3	5.6	5.1	2.3	2.3	3.4	5.1	5.1	11.9	12.4	12.4	5.1	1.1	1.7	4.0	9.6	12.4	.6	100.
4	7.3	4.0	4.5	2.3	5.1	3.4	6.8	11.3	13.0	10.2	5.6	2.3	2.8	4.5	10.2	6.8	00.0	100.
5	11.9	3.4	1.7	3.4	2.3	5.6	5.6	12.4	10.7	8.5	8.5	2.8	2.3	2.8	10.7	7.3	00.0	100.
6	10.2	4.5	2.8	2.3	2.3	8.5	6.2	10.2	12.4	5.6	7.9	4.0	2.8	7.3	7.3	5.6	00.0	100.
7	12.4	4.0	2.8	1.7	2.3	8.5	5.6	11.3	11.3	7.3	6.8	3.4	4.0	7.3	6.2	5.1	00.0	100.
8	10.8	4.5	2.3	2.8	1.1	11.4	5.1	8.5	14.2	6.8	5.1	3.4	6.8	4.5	8.5	4.0	00.0	100.
9	8.5	7.4	2.8	2.3	.6	9.7	8.5	6.8	14.8	7.4	4.0	4.0	4.0	4.5	10.2	4.5	00.0	100.
10	9.1	6.3	2.8	.6	2.3	6.3	11.4	6.3	11.4	10.2	5.7	4.0	2.3	6.8	7.4	7.4	00.0	100.
11	6.8	8.5	1.1	2.3	1.7	6.3	10.2	6.8	15.3	9.1	4.5	4.0	2.8	5.1	7.4	8.0	00.0	100.
12	9.7	4.5	4.0	00.0	1.1	8.5	9.7	10.2	13.1	11.4	4.5	1.1	2.3	8.0	5.7	6.3	00.0	100.
13	6.8	6.2	1.7	1.7	.6	7.9	7.9	10.2	14.7	7.3	5.1	3.4	1.7	9.6	7.9	7.3	00.0	100.
14	8.5	5.7	1.7	1.7	2.3	4.5	9.1	9.7	13.1	9.7	4.0	1.7	5.1	6.8	9.1	7.4	00.0	100.
15	8.0	5.7	3.4	1.1	1.1	5.1	11.4	7.4	14.2	8.5	2.3	1.1	3.4	10.2	6.8	10.2	00.0	100.
16	7.9	5.1	1.7	1.7	1.7	6.2	7.3	11.3	14.7	9.0	1.1	1.7	4.5	6.8	8.5	10.7	00.0	100.
17	7.9	5.6	2.8	1.1	4.0	3.4	9.0	10.2	15.8	5.6	4.0	1.1	3.4	7.3	5.6	13.0	00.0	100.
18	9.6	2.3	1.1	4.5	3.4	7.3	9.0	8.5	14.7	7.3	2.3	1.1	4.0	4.5	7.9	12.4	00.0	100.
19	7.3	2.3	2.3	4.5	4.5	6.2	10.7	8.5	13.0	4.0	4.5	3.4	3.4	4.0	6.2	15.3	00.0	100.
20	7.9	5.1	2.3	4.5	3.4	6.2	10.7	11.9	10.7	4.5	4.0	2.8	4.0	2.8	7.3	11.3	.6	100.
21	8.5	4.0	1.7	3.4	4.5	4.5	12.4	15.3	9.6	2.8	5.6	2.3	2.3	3.4	5.1	14.7	00.0	100.
22	8.5	2.8	2.8	2.8	4.5	6.2	9.6	15.3	12.4	3.4	3.4	3.4	2.8	1.7	5.6	14.7	00.0	100.
23	8.5	4.0	2.3	2.8	2.3	5.6	9.6	11.9	14.1	7.9	3.4	1.7	2.8	3.4	7.3	12.4	00.0	100.
24	10.2	4.0	4.5	1.1	2.8	5.1	7.9	11.3	14.7	8.5	2.3	3.4	2.3	4.0	7.3	10.7	00.0	100.
ALL	8.9	4.8	2.4	2.3	2.7	6.2	8.6	10.4	13.2	7.7	4.4	2.6	3.1	5.4	7.6	9.6	.0	100.

NUMBER OF OBS = 4241

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JULY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	3.2	3.2	6.5	00.0	3.2	00.0	9.7	22.6	32.3	6.5	3.2	3.2	00.0	00.0	00.0	6.5	00.0	100.
2	6.5	00.0	3.2	00.0	3.2	9.7	3.2	16.1	25.8	19.4	3.2	3.2	00.0	00.0	00.0	6.5	00.0	100.
3	3.2	3.2	00.0	00.0	3.2	6.5	9.7	16.1	22.6	16.1	3.2	6.5	3.2	00.0	3.2	3.2	00.0	100.
4	00.0	00.0	3.2	00.0	3.2	6.5	3.2	22.6	19.4	16.1	12.9	00.0	3.2	3.2	00.0	6.5	00.0	100.
5	3.2	3.2	00.0	3.2	00.0	3.2	9.7	16.1	19.4	22.6	6.5	3.2	00.0	3.2	00.0	6.5	00.0	100.
6	00.0	9.7	00.0	3.2	00.0	3.2	9.7	16.1	22.6	16.1	3.2	6.5	3.2	00.0	00.0	6.5	00.0	100.
7	9.7	00.0	6.5	00.0	00.0	3.2	6.5	22.6	16.1	19.4	3.2	6.5	3.2	00.0	00.0	3.2	00.0	100.
8	12.9	00.0	00.0	3.2	00.0	6.5	3.2	16.1	22.6	22.6	6.5	00.0	3.2	00.0	3.2	00.0	00.0	100.
9	3.2	9.7	3.2	00.0	00.0	00.0	9.7	9.7	25.8	25.8	3.2	00.0	00.0	3.2	3.2	3.2	00.0	100.
10	9.7	3.2	3.2	00.0	6.5	3.2	3.2	9.7	32.3	22.6	00.0	00.0	3.2	3.2	00.0	00.0	00.0	100.
11	12.9	3.2	00.0	3.2	3.2	9.7	3.2	12.9	32.3	9.7	3.2	00.0	3.2	00.0	00.0	3.2	00.0	100.
12	16.1	00.0	3.2	6.5	3.2	3.2	3.2	12.9	41.9	6.5	00.0	00.0	00.0	3.2	00.0	00.0	00.0	100.
13	9.7	6.5	3.2	3.2	00.0	6.5	3.2	16.1	35.5	9.7	00.0	3.2	00.0	00.0	3.2	00.0	00.0	100.
14	6.5	12.9	00.0	00.0	3.2	6.5	00.0	16.1	41.9	6.5	3.2	00.0	00.0	3.2	00.0	00.0	00.0	100.
15	16.1	3.2	00.0	00.0	3.2	6.5	00.0	22.6	32.3	6.5	3.2	00.0	00.0	00.0	6.5	00.0	00.0	100.
16	12.9	3.2	6.5	00.0	6.5	00.0	3.2	22.6	32.3	3.2	00.0	3.2	00.0	00.0	3.2	3.2	00.0	100.
17	12.9	6.5	3.2	00.0	00.0	6.5	3.2	19.4	35.5	3.2	00.0	00.0	00.0	6.5	00.0	3.2	00.0	100.
18	12.9	6.5	00.0	00.0	3.2	3.2	3.2	29.0	29.0	00.0	00.0	3.2	3.2	00.0	00.0	6.5	00.0	100.
19	16.1	6.5	3.2	00.0	6.5	00.0	6.5	22.6	35.5	00.0	00.0	3.2	00.0	00.0	00.0	00.0	00.0	100.
20	9.7	9.7	00.0	3.2	6.5	00.0	6.5	25.8	29.0	3.2	3.2	00.0	00.0	00.0	3.2	00.0	00.0	100.
21	6.5	3.2	00.0	12.9	6.5	00.0	3.2	32.3	25.8	00.0	3.2	00.0	00.0	00.0	6.5	00.0	00.0	100.
22	3.2	00.0	00.0	3.2	9.7	9.7	3.2	38.7	19.4	00.0	3.2	00.0	00.0	00.0	3.2	6.5	00.0	100.
23	3.2	3.2	00.0	00.0	6.5	9.7	6.5	32.3	16.1	12.9	00.0	3.2	00.0	00.0	00.0	6.5	00.0	100.
24	3.2	3.2	3.2	00.0	3.2	3.2	9.7	35.5	25.8	6.5	00.0	00.0	3.2	00.0	00.0	3.2	00.0	100.
ALL	8.1	4.2	2.0	1.7	3.4	4.4	5.1	21.1	28.0	10.6	2.7	1.9	1.2	1.1	1.5	3.1	00.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

AUGUST

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	00.0	6.5	6.5	9.7	3.2	12.9	12.9	9.7	12.9	9.7	6.5	9.7	00.0	00.0	00.0	00.0	00.0	100.
2	3.2	6.5	6.5	6.5	3.2	12.9	12.9	6.5	16.1	6.5	6.5	3.2	3.2	3.2	00.0	3.2	00.0	100.
3	3.2	6.5	9.7	6.5	00.0	9.7	16.1	9.7	9.7	9.7	3.2	6.5	3.2	6.5	00.0	00.0	00.0	100.
4	3.2	3.2	6.5	6.5	9.7	9.7	9.7	9.7	9.7	6.5	12.9	6.5	3.2	3.2	00.0	00.0	00.0	100.
5	6.5	3.2	3.2	3.2	9.7	9.7	6.5	12.9	9.7	9.7	9.7	9.7	3.2	3.2	00.0	00.0	00.0	100.
6	9.7	3.2	6.5	9.7	6.5	6.5	9.7	9.7	9.7	9.7	3.2	9.7	00.0	3.2	3.2	00.0	00.0	100.
7	9.7	3.2	6.5	12.9	6.5	9.7	6.5	9.7	9.7	6.5	9.7	3.2	3.2	00.0	3.2	00.0	00.0	100.
8	6.5	6.5	00.0	9.7	6.5	6.5	19.4	12.9	3.2	6.5	9.7	6.5	3.2	00.0	3.2	00.0	00.0	100.
9	6.5	9.7	3.2	3.2	6.5	9.7	9.7	16.1	16.1	3.2	9.7	00.0	6.5	00.0	00.0	00.0	00.0	100.
10	3.2	12.9	00.0	3.2	6.5	9.7	9.7	6.5	16.1	19.4	6.5	00.0	00.0	3.2	00.0	3.2	00.0	100.
11	3.2	9.7	3.2	3.2	6.5	12.9	6.5	6.5	19.4	6.5	9.7	6.5	00.0	3.2	00.0	3.2	00.0	100.
12	3.2	6.5	3.2	9.7	12.9	00.0	9.7	6.5	19.4	6.5	6.5	9.7	3.2	3.2	00.0	00.0	00.0	100.
13	3.2	3.2	6.5	6.5	9.7	9.7	6.5	6.5	12.9	16.1	3.2	3.2	12.9	00.0	00.0	00.0	00.0	100.
14	3.2	3.2	9.7	3.2	12.9	9.7	6.5	3.2	22.6	3.2	6.5	3.2	6.5	6.5	00.0	00.0	00.0	100.
15	6.5	9.7	00.0	6.5	3.2	16.1	3.2	16.1	12.9	9.7	6.5	00.0	3.2	00.0	6.5	00.0	00.0	100.
16	3.2	9.7	3.2	6.5	6.5	9.7	12.9	9.7	9.7	9.7	9.7	00.0	00.0	00.0	3.2	6.5	00.0	100.
17	3.2	9.7	00.0	9.7	3.2	19.4	12.9	3.2	9.7	9.7	3.2	3.2	00.0	00.0	6.5	6.5	00.0	100.
18	6.5	6.5	3.2	9.7	6.5	16.1	9.7	6.5	19.4	3.2	3.2	00.0	00.0	00.0	3.2	6.5	00.0	100.
19	3.2	6.5	3.2	9.7	6.5	12.9	19.4	12.9	12.9	3.2	00.0	3.2	00.0	00.0	00.0	6.5	00.0	100.
20	00.0	9.7	9.7	6.5	6.5	6.5	25.8	6.5	16.1	3.2	3.2	00.0	00.0	00.0	3.2	3.2	00.0	100.
21	6.5	12.9	9.7	00.0	9.7	9.7	16.1	16.1	9.7	3.2	3.2	00.0	00.0	00.0	00.0	3.2	00.0	100.
22	3.2	9.7	6.5	3.2	9.7	16.1	6.5	19.4	12.9	3.2	00.0	00.0	00.0	00.0	3.2	6.5	00.0	100.
23	3.2	3.2	6.5	9.7	3.2	19.4	6.5	16.1	16.1	6.5	00.0	00.0	00.0	3.2	00.0	6.5	00.0	100.
24	00.0	6.5	6.5	3.2	16.1	16.1	3.2	12.9	16.1	9.7	3.2	00.0	3.2	00.0	00.0	3.2	00.0	100.
ALL	4.2	7.0	5.0	6.6	7.1	11.3	10.8	10.2	13.4	7.5	5.6	3.5	2.3	1.6	1.5	2.4	00.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

SEPTEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	11.1	3.7	3.7	00.0	3.7	3.7	7.4	22.2	25.9	18.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	100.
2	3.7	3.7	3.7	3.7	3.7	3.7	7.4	11.1	37.0	11.1	3.7	3.7	00.0	00.0	00.0	3.7	00.0	100.
3	3.7	3.7	3.7	00.0	7.4	00.0	11.1	11.1	33.3	18.5	00.0	3.7	00.0	00.0	00.0	3.7	00.0	100.
4	7.4	00.0	3.7	00.0	3.7	3.7	11.1	14.8	22.2	18.5	00.0	7.4	00.0	00.0	3.7	3.7	00.0	100.
5	11.1	3.7	00.0	00.0	00.0	3.7	14.8	11.1	29.6	11.1	00.0	7.4	3.7	00.0	00.0	3.7	00.0	100.
6	00.0	3.7	7.4	00.0	7.4	3.7	7.4	18.5	29.6	3.7	3.7	00.0	3.7	3.7	00.0	7.4	00.0	100.
7	00.0	3.7	7.4	00.0	3.7	3.7	3.7	25.9	18.5	11.1	3.7	7.4	00.0	3.7	00.0	7.4	00.0	100.
8	00.0	3.7	3.7	00.0	3.7	7.4	3.7	22.2	25.9	3.7	00.0	00.0	11.1	00.0	3.7	11.1	00.0	100.
9	7.7	00.0	11.5	00.0	3.8	7.7	7.7	3.8	38.5	7.7	00.0	3.8	00.0	00.0	7.7	00.0	00.0	100.
10	11.5	00.0	3.8	3.8	00.0	11.5	3.8	15.4	26.9	11.5	3.8	00.0	3.8	00.0	00.0	3.8	00.0	100.
11	7.7	00.0	3.8	7.7	00.0	00.0	11.5	11.5	34.6	15.4	00.0	00.0	00.0	00.0	00.0	7.7	00.0	100.
12	3.8	3.8	00.0	7.7	00.0	00.0	11.5	19.2	23.1	23.1	00.0	00.0	00.0	00.0	00.0	7.7	00.0	100.
13	7.7	3.8	00.0	00.0	3.8	3.8	7.7	19.2	34.6	15.4	00.0	00.0	00.0	00.0	00.0	3.8	00.0	100.
14	7.7	00.0	3.8	3.8	00.0	3.8	11.5	11.5	38.5	11.5	00.0	00.0	3.8	00.0	00.0	3.8	00.0	100.
15	11.5	00.0	00.0	3.8	00.0	3.8	15.4	7.7	38.5	11.5	00.0	00.0	3.8	00.0	00.0	3.8	00.0	100.
16	11.5	00.0	00.0	00.0	7.7	00.0	15.4	3.8	42.3	11.5	00.0	00.0	00.0	00.0	00.0	7.7	00.0	100.
17	11.5	00.0	3.8	00.0	7.7	00.0	11.5	15.4	38.5	7.7	00.0	00.0	00.0	00.0	00.0	3.8	00.0	100.
18	3.7	3.7	3.7	00.0	7.4	00.0	11.1	25.9	33.3	00.0	3.7	00.0	00.0	00.0	00.0	7.4	00.0	100.
19	7.4	00.0	3.7	00.0	3.7	11.1	3.7	44.4	18.5	00.0	3.7	00.0	00.0	00.0	00.0	3.7	00.0	100.
20	7.4	7.4	00.0	00.0	00.0	11.1	14.8	40.7	14.8	00.0	00.0	3.7	00.0	00.0	00.0	00.0	00.0	100.
21	7.4	3.7	00.0	00.0	3.7	7.4	18.5	29.6	22.2	00.0	00.0	00.0	3.7	00.0	00.0	3.7	00.0	100.
22	7.4	3.7	00.0	00.0	00.0	7.4	18.5	29.6	25.9	00.0	00.0	00.0	3.7	00.0	00.0	3.7	00.0	100.
23	11.1	3.7	00.0	00.0	00.0	7.4	11.1	25.9	37.0	3.7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	100.
24	7.4	7.4	00.0	00.0	3.7	3.7	7.4	14.8	48.1	7.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	100.
ALL	7.0	2.7	2.8	1.3	3.1	4.5	10.3	19.1	30.7	9.2	.9	1.6	1.6	.3	.6	4.2	00.0	100.

NUMBER OF OBS = 639

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUL-SEP

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	4.5	4.5	5.6	3.4	3.4	5.6	10.1	18.0	23.6	11.2	3.4	4.5	00.0	00.0	00.0	2.2	00.0	100.
2	4.5	3.4	4.5	3.4	3.4	9.0	7.9	11.2	25.8	12.4	4.5	3.4	1.1	1.1	00.0	4.5	00.0	100.
3	3.4	4.5	4.5	2.2	3.4	5.6	12.4	12.4	21.3	14.6	2.2	5.6	2.2	2.2	1.1	2.2	00.0	100.
4	3.4	1.1	4.5	2.2	5.6	6.7	7.9	15.7	16.9	13.5	9.0	4.5	2.2	2.2	1.1	3.4	00.0	100.
5	6.7	3.4	1.1	2.2	3.4	5.6	10.1	13.5	19.1	14.6	5.6	6.7	2.2	2.2	00.0	3.4	00.0	100.
6	3.4	5.6	4.5	4.5	4.5	4.5	9.0	14.6	20.2	10.1	3.4	5.6	2.2	2.2	1.1	4.5	00.0	100.
7	6.7	2.2	6.7	4.5	3.4	5.6	5.6	19.1	14.6	12.4	5.6	5.6	2.2	1.1	1.1	3.4	00.0	100.
8	6.7	3.4	1.1	4.5	3.4	6.7	9.0	16.9	16.9	11.2	5.6	2.2	5.6	00.0	3.4	3.4	00.0	100.
9	5.7	6.8	5.7	1.1	3.4	5.7	9.1	10.2	26.1	12.5	4.5	1.1	2.3	1.1	3.4	1.1	00.0	100.
10	8.0	5.7	2.3	2.3	4.5	8.0	5.7	10.2	25.0	18.2	3.4	00.0	2.3	2.3	00.0	2.3	00.0	100.
11	8.0	4.5	2.3	4.5	3.4	8.0	6.8	10.2	28.4	10.2	4.5	2.3	1.1	1.1	00.0	4.5	00.0	100.
12	8.0	3.4	2.3	8.0	5.7	1.1	8.0	12.5	28.4	11.4	2.3	3.4	1.1	2.3	00.0	2.3	00.0	100.
13	6.8	4.5	3.4	3.4	4.5	6.8	5.7	13.6	27.3	13.6	1.1	2.3	4.5	00.0	1.1	1.1	00.0	100.
14	5.7	5.7	4.5	2.3	5.7	6.8	5.7	10.2	34.1	6.8	3.4	1.1	3.4	3.4	00.0	1.1	00.0	100.
15	11.4	4.5	00.0	3.4	2.3	9.1	5.7	15.9	27.3	9.1	3.4	00.0	2.3	00.0	4.5	1.1	00.0	100.
16	9.1	4.5	3.4	2.3	6.8	3.4	10.2	12.5	27.3	8.0	3.4	1.1	00.0	00.0	2.3	5.7	00.0	100.
17	9.1	5.7	2.3	3.4	3.4	9.1	9.1	12.5	27.3	6.8	1.1	1.1	00.0	2.3	2.3	4.5	00.0	100.
18	7.9	5.6	2.2	3.4	5.6	6.7	7.9	20.2	27.0	1.1	2.2	1.1	1.1	00.0	1.1	6.7	00.0	100.
19	9.0	4.5	3.4	3.4	5.6	7.9	10.1	25.8	22.5	1.1	1.1	2.2	00.0	00.0	00.0	3.4	00.0	100.
20	5.6	9.0	3.4	3.4	4.5	5.6	15.7	23.6	20.2	2.2	2.2	1.1	00.0	00.0	2.2	1.1	00.0	100.
21	6.7	6.7	3.4	4.5	6.7	5.6	12.4	25.8	19.1	1.1	2.2	00.0	1.1	00.0	2.2	2.2	00.0	100.
22	4.5	4.5	2.2	2.2	6.7	11.2	9.0	29.2	19.1	1.1	1.1	00.0	1.1	00.0	2.2	5.6	00.0	100.
23	5.6	3.4	2.2	3.4	3.4	12.4	7.9	24.7	22.5	7.9	00.0	1.1	00.0	1.1	00.0	4.5	00.0	100.
24	3.4	5.6	3.4	1.1	7.9	7.9	6.7	21.3	29.2	7.9	1.1	00.0	2.2	00.0	00.0	2.2	00.0	100.
ALL	6.4	4.7	3.3	3.3	4.6	6.9	8.7	16.7	23.7	9.1	3.2	2.4	1.7	1.0	1.2	3.2	00.0	100.

NUMBER OF OBS = 2127

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

OCTOBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	9.7	3.2	00.0	3.2	6.5	9.7	9.7	6.5	29.0	00.0	3.2	00.0	00.0	00.0	6.5	12.9	00.0	100.
2	9.7	3.2	3.2	3.2	3.2	9.7	12.9	6.5	29.0	00.0	00.0	3.2	00.0	00.0	12.9	3.2	00.0	100.
3	9.7	00.0	6.5	3.2	3.2	9.7	12.9	9.7	22.6	3.2	00.0	3.2	00.0	00.0	9.7	6.5	00.0	100.
4	6.5	00.0	6.5	3.2	6.5	3.2	12.9	9.7	22.6	3.2	3.2	3.2	00.0	00.0	6.5	12.9	00.0	100.
5	9.7	00.0	6.5	3.2	3.2	3.2	12.9	12.9	22.6	3.2	3.2	3.2	00.0	00.0	9.7	6.5	00.0	100.
6	9.7	3.2	3.2	6.5	00.0	9.7	6.5	12.9	22.6	00.0	3.2	6.5	00.0	00.0	9.7	6.5	00.0	100.
7	9.7	3.2	6.5	3.2	00.0	9.7	9.7	12.9	16.1	00.0	6.5	6.5	00.0	00.0	9.7	6.5	00.0	100.
8	6.5	6.5	6.5	3.2	00.0	9.7	12.9	3.2	22.6	00.0	6.5	3.2	00.0	3.2	9.7	6.5	00.0	100.
9	9.7	6.5	6.5	00.0	3.2	9.7	9.7	6.5	19.4	3.2	00.0	9.7	00.0	00.0	9.7	6.5	00.0	100.
10	3.2	3.2	12.9	00.0	3.2	3.2	9.7	9.7	22.6	3.2	00.0	3.2	3.2	3.2	6.5	12.9	00.0	100.
11	00.0	3.2	9.7	00.0	00.0	12.9	6.5	12.9	19.4	00.0	6.5	3.2	00.0	3.2	6.5	16.1	00.0	100.
12	3.2	6.5	9.7	00.0	3.2	3.2	6.5	9.7	22.6	00.0	6.5	6.5	3.2	00.0	6.5	12.9	00.0	100.
13	12.9	6.5	3.2	3.2	3.2	00.0	6.5	12.9	19.4	3.2	00.0	9.7	6.5	00.0	6.5	6.5	00.0	100.
14	6.5	6.5	00.0	00.0	6.5	00.0	12.9	12.9	19.4	00.0	00.0	9.7	6.5	00.0	6.5	12.9	00.0	100.
15	6.5	6.5	3.2	3.2	00.0	6.5	9.7	12.9	19.4	00.0	00.0	6.5	3.2	6.5	3.2	12.9	00.0	100.
16	00.0	6.5	00.0	6.5	00.0	6.5	16.1	6.5	19.4	00.0	3.2	00.0	9.7	3.2	6.5	16.1	00.0	100.
17	00.0	6.5	3.2	00.0	3.2	9.7	12.9	6.5	19.4	00.0	00.0	3.2	6.5	6.5	6.5	16.1	00.0	100.
18	00.0	00.0	9.7	00.0	00.0	12.9	9.7	16.1	12.9	00.0	00.0	6.5	00.0	6.5	9.7	16.1	00.0	100.
19	3.2	3.2	3.2	3.2	6.5	9.7	9.7	16.1	9.7	00.0	3.2	3.2	3.2	6.5	6.5	12.9	00.0	100.
20	12.9	00.0	3.2	3.2	3.2	9.7	12.9	19.4	9.7	00.0	3.2	3.2	00.0	6.5	9.7	3.2	00.0	100.
21	12.9	3.2	00.0	6.5	00.0	9.7	9.7	16.1	16.1	3.2	00.0	3.2	00.0	00.0	12.9	6.5	00.0	100.
22	6.5	9.7	00.0	3.2	3.2	9.7	9.7	16.1	16.1	3.2	3.2	00.0	00.0	00.0	12.9	6.5	00.0	100.
23	9.7	6.5	00.0	3.2	6.5	6.5	9.7	9.7	19.4	6.5	00.0	00.0	00.0	6.5	12.9	3.2	00.0	100.
24	6.5	3.2	6.5	3.2	3.2	9.7	9.7	9.7	22.6	00.0	00.0	00.0	3.2	00.0	12.9	9.7	00.0	100.
ALL	6.9	4.0	4.6	2.7	2.8	7.7	10.5	11.2	19.8	1.3	2.2	4.0	1.9	2.2	8.7	9.7	00.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

NOVEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	3.3	00.0	3.3	10.0	00.0	10.0	00.0	3.3	13.3	6.7	6.7	6.7	3.3	3.3	13.3	16.7	00.0	100.
2	00.0	00.0	3.3	10.0	00.0	3.3	3.3	3.3	16.7	10.0	6.7	3.3	6.7	6.7	10.0	16.7	00.0	100.
3	3.3	00.0	3.3	3.3	3.3	00.0	3.3	16.7	10.0	10.0	3.3	3.3	13.3	00.0	16.7	10.0	00.0	100.
4	3.3	3.3	00.0	3.3	00.0	3.3	00.0	13.3	13.3	10.0	6.7	6.7	10.0	6.7	6.7	13.3	00.0	100.
5	10.0	00.0	00.0	3.3	00.0	3.3	6.7	6.7	16.7	10.0	3.3	6.7	6.7	10.0	6.7	10.0	00.0	100.
6	6.7	3.3	3.3	00.0	00.0	6.7	6.7	6.7	13.3	10.0	00.0	3.3	10.0	13.3	10.0	6.7	00.0	100.
7	6.7	00.0	3.3	00.0	00.0	6.7	6.7	10.0	10.0	13.3	00.0	00.0	6.7	16.7	10.0	10.0	00.0	100.
8	10.0	00.0	3.3	00.0	00.0	6.7	6.7	6.7	16.7	10.0	00.0	3.3	6.7	20.0	6.7	3.3	00.0	100.
9	3.3	10.0	00.0	00.0	00.0	00.0	13.3	6.7	16.7	6.7	3.3	3.3	00.0	20.0	16.7	00.0	00.0	100.
10	3.3	6.7	3.3	00.0	00.0	00.0	6.7	13.3	20.0	6.7	00.0	6.7	6.7	10.0	16.7	00.0	00.0	100.
11	6.7	00.0	3.3	3.3	00.0	00.0	6.7	6.7	26.7	6.7	00.0	6.7	6.7	6.7	13.3	6.7	00.0	100.
12	6.7	00.0	3.3	00.0	00.0	00.0	10.0	3.3	20.0	13.3	3.3	6.7	3.3	6.7	20.0	3.3	00.0	100.
13	6.7	3.3	00.0	00.0	00.0	00.0	10.0	3.3	16.7	20.0	3.3	00.0	3.3	10.0	16.7	6.7	00.0	100.
14	3.3	00.0	3.3	00.0	00.0	3.3	6.7	3.3	10.0	26.7	6.7	00.0	3.3	13.3	13.3	6.7	00.0	100.
15	3.3	00.0	00.0	3.3	00.0	6.7	3.3	3.3	6.7	30.0	3.3	3.3	3.3	13.3	10.0	10.0	00.0	100.
16	3.3	00.0	00.0	3.3	00.0	6.7	3.3	6.7	6.7	20.0	13.3	00.0	00.0	16.7	13.3	6.7	00.0	100.
17	00.0	3.3	00.0	00.0	3.3	6.7	3.3	6.7	6.7	23.3	6.7	3.3	00.0	13.3	16.7	6.7	00.0	100.
18	00.0	3.3	00.0	00.0	00.0	3.3	6.7	10.0	10.0	16.7	3.3	10.0	00.0	13.3	20.0	3.3	00.0	100.
19	00.0	6.7	00.0	00.0	3.3	00.0	10.0	6.7	10.0	13.3	3.3	6.7	6.7	10.0	16.7	6.7	00.0	100.
20	3.3	3.3	00.0	3.3	3.3	6.7	00.0	10.0	6.7	16.7	00.0	6.7	6.7	10.0	13.3	10.0	00.0	100.
21	3.3	00.0	6.7	00.0	00.0	6.7	00.0	10.0	6.7	20.0	00.0	6.7	6.7	3.3	23.3	6.7	00.0	100.
22	6.7	3.3	3.3	3.3	00.0	3.3	3.3	6.7	10.0	16.7	00.0	10.0	3.3	10.0	13.3	6.7	00.0	100.
23	00.0	3.3	6.7	00.0	3.3	10.0	3.3	00.0	13.3	13.3	3.3	6.7	3.3	16.7	6.7	10.0	00.0	100.
24	3.3	00.0	3.3	3.3	6.7	6.7	3.3	00.0	13.3	13.3	3.3	3.3	3.3	16.7	10.0	10.0	00.0	100.
ALL	4.0	2.1	2.2	2.1	1.0	4.2	5.1	6.8	12.9	14.3	3.3	4.7	5.0	11.1	13.3	7.8	00.0	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

DECEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	3.2	3.2	00.0	00.0	6.5	00.0	00.0	6.5	6.5	6.5	6.5	9.7	6.5	9.7	19.4	16.1	00.0	100.
2	3.2	3.2	00.0	3.2	00.0	3.2	00.0	3.2	6.5	9.7	12.9	3.2	6.5	9.7	19.4	16.1	00.0	100.
3	6.5	3.2	00.0	3.2	00.0	00.0	3.2	6.5	3.2	3.2	16.1	6.5	6.5	9.7	6.5	25.8	00.0	100.
4	3.2	3.2	00.0	3.2	00.0	3.2	00.0	9.7	00.0	3.2	9.7	9.7	6.5	16.1	16.1	16.1	00.0	100.
5	00.0	00.0	00.0	3.2	00.0	3.2	3.2	3.2	3.2	6.5	9.7	3.2	9.7	22.6	12.9	19.4	00.0	100.
6	00.0	00.0	3.2	00.0	00.0	00.0	6.5	3.2	3.2	9.7	3.2	9.7	9.7	19.4	12.9	19.4	00.0	100.
7	3.2	00.0	00.0	3.2	00.0	3.2	3.2	3.2	6.5	9.7	00.0	3.2	19.4	16.1	12.9	16.1	00.0	100.
8	3.2	3.2	3.2	00.0	00.0	3.2	3.2	3.2	3.2	9.7	3.2	3.2	19.4	12.9	12.9	16.1	00.0	100.
9	3.2	6.5	00.0	00.0	00.0	3.2	6.5	00.0	3.2	9.7	3.2	6.5	12.9	12.9	16.1	16.1	00.0	100.
10	9.7	3.2	00.0	3.2	00.0	3.2	6.5	3.2	3.2	9.7	6.5	3.2	9.7	16.1	9.7	12.9	00.0	100.
11	16.1	00.0	3.2	00.0	00.0	3.2	6.5	6.5	00.0	12.9	00.0	12.9	3.2	22.6	3.2	9.7	00.0	100.
12	19.4	00.0	00.0	00.0	00.0	3.2	6.5	6.5	00.0	12.9	3.2	6.5	3.2	22.6	6.5	9.7	00.0	100.
13	9.7	3.2	00.0	00.0	00.0	6.5	3.2	00.0	9.7	9.7	6.5	3.2	3.2	25.8	12.9	6.5	00.0	100.
14	3.2	6.5	00.0	00.0	00.0	3.2	6.5	3.2	6.5	12.9	3.2	3.2	3.2	25.8	9.7	12.9	00.0	100.
15	9.7	3.2	00.0	00.0	00.0	3.2	3.2	6.5	16.1	6.5	00.0	00.0	9.7	22.6	3.2	16.1	00.0	100.
16	9.7	00.0	3.2	00.0	00.0	3.2	6.5	3.2	16.1	6.5	00.0	00.0	3.2	22.6	16.1	9.7	00.0	100.
17	3.2	00.0	3.2	00.0	00.0	6.5	3.2	9.7	9.7	6.5	00.0	3.2	3.2	19.4	16.1	16.1	00.0	100.
18	3.2	3.2	3.2	00.0	00.0	3.2	9.7	6.5	6.5	9.7	3.2	00.0	3.2	19.4	9.7	19.4	00.0	100.
19	9.7	3.2	3.2	3.2	00.0	3.2	6.5	9.7	6.5	9.7	00.0	3.2	6.5	16.1	9.7	9.7	00.0	100.
20	9.7	00.0	3.2	00.0	00.0	9.7	3.2	6.5	3.2	12.9	6.5	00.0	9.7	12.9	6.5	16.1	00.0	100.
21	3.2	3.2	3.2	00.0	3.2	00.0	6.5	9.7	6.5	6.5	6.5	3.2	6.5	16.1	12.9	12.9	00.0	100.
22	3.2	3.2	3.2	00.0	3.2	00.0	9.7	6.5	00.0	12.9	3.2	3.2	12.9	16.1	12.9	9.7	00.0	100.
23	9.7	3.2	00.0	00.0	3.2	00.0	3.2	12.9	00.0	9.7	9.7	3.2	9.7	12.9	19.4	3.2	00.0	100.
24	6.5	3.2	00.0	00.0	3.2	00.0	6.5	6.5	6.5	3.2	12.9	6.5	6.5	12.9	16.1	9.7	00.0	100.
ALL	6.3	2.4	1.3	.9	.8	2.8	4.7	5.6	5.2	8.7	5.2	4.4	7.9	17.2	12.2	14.0	00.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

OCT-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	5.4	2.2	1.1	4.3	4.3	6.5	3.3	5.4	16.3	4.3	5.4	5.4	3.3	4.3	13.0	15.2	00.0	100.
2	4.3	2.2	2.2	5.4	1.1	5.4	5.4	4.3	17.4	6.5	6.5	3.3	4.3	5.4	14.1	12.0	00.0	100.
3	6.5	1.1	3.3	3.3	2.2	3.3	6.5	10.9	12.0	5.4	6.5	4.3	6.5	3.3	10.9	14.1	00.0	100.
4	4.3	2.2	2.2	3.3	2.2	3.3	4.3	10.9	12.0	5.4	6.5	6.5	5.4	7.6	9.8	14.1	00.0	100.
5	6.5	00.0	2.2	3.3	1.1	3.3	7.6	7.6	14.1	6.5	5.4	4.3	5.4	10.9	9.8	12.0	00.0	100.
6	5.4	2.2	3.3	2.2	00.0	5.4	6.5	7.6	13.0	6.5	2.2	6.5	6.5	10.9	10.9	10.9	00.0	100.
7	6.5	1.1	3.3	2.2	00.0	6.5	6.5	8.7	10.9	7.6	2.2	3.3	8.7	10.9	10.9	10.9	00.0	100.
8	6.5	3.3	4.3	1.1	00.0	6.5	7.6	4.3	14.1	6.5	3.3	3.3	8.7	12.0	9.8	8.7	00.0	100.
9	5.4	7.6	2.2	00.0	1.1	4.3	9.8	4.3	13.0	6.5	2.2	6.5	4.3	10.9	14.1	7.6	00.0	100.
10	5.4	4.3	5.4	1.1	1.1	2.2	7.6	8.7	15.2	6.5	2.2	4.3	6.5	9.8	10.9	8.7	00.0	100.
11	7.6	1.1	5.4	1.1	00.0	5.4	6.5	8.7	15.2	6.5	2.2	7.6	3.3	10.9	7.6	10.9	00.0	100.
12	9.8	2.2	4.3	00.0	1.1	2.2	7.6	6.5	14.1	8.7	4.3	6.5	3.3	9.8	10.9	8.7	00.0	100.
13	9.8	4.3	1.1	1.1	1.1	2.2	6.5	5.4	15.2	10.9	3.3	4.3	4.3	12.0	12.0	6.5	00.0	100.
14	4.3	4.3	1.1	00.0	2.2	2.2	8.7	6.5	12.0	13.0	3.3	4.3	4.3	13.0	9.8	10.9	00.0	100.
15	6.5	3.3	1.1	2.2	00.0	5.4	5.4	7.6	14.1	12.0	1.1	3.3	5.4	14.1	5.4	13.0	00.0	100.
16	4.3	2.2	1.1	3.3	00.0	5.4	8.7	5.4	14.1	8.7	5.4	00.0	4.3	14.1	12.0	10.9	00.0	100.
17	1.1	3.3	2.2	00.0	2.2	7.6	6.5	7.6	12.0	9.8	2.2	3.3	3.3	13.0	13.0	13.0	00.0	100.
18	1.1	2.2	4.3	00.0	00.0	6.5	8.7	10.9	9.8	8.7	2.2	5.4	1.1	13.0	13.0	13.0	00.0	100.
19	4.3	4.3	2.2	2.2	3.3	4.3	8.7	10.9	8.7	7.6	2.2	4.3	5.4	10.9	10.9	9.8	00.0	100.
20	8.7	1.1	2.2	2.2	2.2	8.7	5.4	12.0	6.5	9.8	3.3	3.3	5.4	9.8	9.8	9.8	00.0	100.
21	6.5	2.2	3.3	2.2	1.1	5.4	5.4	12.0	9.8	9.8	2.2	4.3	4.3	6.5	16.3	8.7	00.0	100.
22	5.4	5.4	2.2	2.2	2.2	4.3	7.6	9.8	8.7	10.9	2.2	4.3	5.4	8.7	13.0	7.6	00.0	100.
23	6.5	4.3	2.2	1.1	4.3	5.4	5.4	7.6	10.9	9.8	4.3	3.3	4.3	12.0	13.0	5.4	00.0	100.
24	5.4	2.2	3.3	2.2	4.3	5.4	6.5	5.4	14.1	5.4	5.4	3.3	4.3	9.8	13.0	9.8	00.0	100.
ALL	5.8	2.9	2.7	1.9	1.5	4.9	6.8	7.9	12.6	8.1	3.6	4.4	4.9	10.1	11.4	10.5	00.0	100.

NUMBER OF OBS = 2208

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUL-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	5.0	3.3	3.3	3.9	3.9	6.1	6.6	11.6	19.9	7.7	4.4	5.0	1.7	2.2	6.6	8.8	00.0	100.
2	4.4	2.8	3.3	4.4	2.2	7.2	6.6	7.7	21.5	9.4	5.5	3.3	2.8	3.3	7.2	8.3	00.0	100.
3	5.0	2.8	3.9	2.8	2.8	4.4	9.4	11.6	16.6	9.9	4.4	5.0	4.4	2.8	6.1	8.3	00.0	100.
4	3.9	1.7	3.3	2.8	3.9	5.0	6.1	13.3	14.4	9.4	7.7	5.5	3.9	5.0	5.5	8.8	00.0	100.
5	6.6	1.7	1.7	2.8	2.2	4.4	8.8	10.5	16.6	10.5	5.5	5.5	3.9	6.6	5.0	7.7	00.0	100.
6	4.4	3.9	3.9	3.3	2.2	5.0	7.7	11.0	16.6	8.3	2.8	6.1	4.4	6.6	6.1	7.7	00.0	100.
7	6.6	1.7	5.0	3.3	1.7	6.1	6.1	13.8	12.7	9.9	3.9	4.4	5.5	6.1	6.1	7.2	00.0	100.
8	6.6	3.3	2.8	2.8	1.7	6.6	8.3	10.5	15.5	8.8	4.4	2.8	7.2	6.1	6.6	6.1	00.0	100.
9	5.6	7.2	3.9	.6	2.2	5.0	9.4	7.2	19.4	9.4	3.3	3.9	3.3	6.1	8.9	4.4	00.0	100.
10	6.7	5.0	3.9	1.7	2.8	5.0	6.7	9.4	20.0	12.2	2.8	2.2	4.4	6.1	5.6	5.6	00.0	100.
11	7.8	2.8	3.9	2.8	1.7	6.7	6.7	9.4	21.7	8.3	3.3	5.0	2.2	6.1	3.9	7.8	00.0	100.
12	8.9	2.8	3.3	3.9	3.3	1.7	7.8	9.4	21.1	10.0	3.3	5.0	2.2	6.1	5.6	5.6	00.0	100.
13	8.3	4.4	2.2	2.2	2.8	4.4	6.1	9.4	21.1	12.2	2.2	3.3	4.4	6.1	6.7	3.9	00.0	100.
14	5.0	5.0	2.8	1.1	3.9	4.4	7.2	8.3	22.8	10.0	3.3	2.8	3.9	8.3	5.0	6.1	00.0	100.
15	8.9	3.9	.6	2.8	1.1	7.2	5.6	11.7	20.6	10.6	2.2	1.7	3.9	7.2	5.0	7.2	00.0	100.
16	6.7	3.3	2.2	2.8	3.3	4.4	9.4	8.9	20.6	8.3	4.4	.6	2.2	7.2	7.2	8.3	00.0	100.
17	5.0	4.4	2.2	1.7	2.8	8.3	7.8	10.0	19.4	8.3	1.7	2.2	1.7	7.8	7.8	8.9	00.0	100.
18	4.4	3.9	3.3	1.7	2.8	6.6	8.3	15.5	18.2	5.0	2.2	3.3	1.1	6.6	7.2	9.9	00.0	100.
19	6.6	4.4	2.8	2.8	4.4	6.1	9.4	18.2	15.5	4.4	1.7	3.3	2.8	5.5	5.5	6.6	00.0	100.
20	7.2	5.0	2.8	2.8	3.3	7.2	10.5	17.7	13.3	6.1	2.8	2.2	2.8	5.0	6.1	5.5	00.0	100.
21	6.6	4.4	3.3	3.3	3.9	5.5	8.8	18.8	14.4	5.5	2.2	2.2	2.8	3.3	9.4	5.5	00.0	100.
22	5.0	5.0	2.2	2.2	4.4	7.7	8.3	19.3	13.8	6.1	1.7	2.2	3.3	4.4	7.7	6.6	00.0	100.
23	6.1	3.9	2.2	2.2	3.9	8.8	6.6	16.0	16.6	8.8	2.2	2.2	2.2	6.6	6.6	5.0	00.0	100.
24	4.4	3.9	3.3	1.7	6.1	6.6	6.6	13.3	21.5	6.6	3.3	1.7	3.3	5.0	6.6	6.1	00.0	100.
ALL	6.1	3.8	3.0	2.6	3.0	5.9	7.7	12.2	18.1	8.6	3.4	3.4	3.3	5.7	6.4	6.9	00.0	100.

NUMBER OF OBS = 4335

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2005

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	8.4	3.4	2.5	3.1	4.2	4.7	7.3	12.0	16.5	8.4	3.6	4.2	1.4	3.4	6.7	10.3	00.0	100.
2	7.3	4.5	2.2	3.6	2.5	5.3	7.8	9.5	17.3	8.9	4.7	3.1	2.2	3.9	7.8	9.2	00.0	100.
3	5.3	3.9	3.1	2.5	3.1	4.7	7.3	11.7	14.5	11.2	4.7	3.1	3.1	3.4	7.8	10.3	.3	100.
4	5.6	2.8	3.9	2.5	4.5	4.2	6.4	12.3	13.7	9.8	6.7	3.9	3.4	4.7	7.8	7.8	00.0	100.
5	9.2	2.5	1.7	3.1	2.2	5.0	7.3	11.5	13.7	9.5	7.0	4.2	3.1	4.7	7.8	7.5	00.0	100.
6	7.3	4.2	3.4	2.8	2.2	6.7	7.0	10.6	14.5	7.0	5.3	5.0	3.6	7.0	6.7	6.7	00.0	100.
7	9.5	2.8	3.9	2.5	2.0	7.3	5.9	12.6	12.0	8.7	5.3	3.9	4.7	6.7	6.1	6.1	00.0	100.
8	8.7	3.9	2.5	2.8	1.4	9.0	6.7	9.5	14.8	7.8	4.8	3.1	7.0	5.3	7.6	5.0	00.0	100.
9	7.0	7.3	3.4	1.4	1.4	7.3	9.0	7.0	17.1	8.4	3.7	3.9	3.7	5.3	9.6	4.5	00.0	100.
10	7.9	5.6	3.4	1.1	2.5	5.6	9.0	7.9	15.7	11.2	4.2	3.1	3.4	6.5	6.5	6.5	00.0	100.
11	7.3	5.6	2.5	2.5	1.7	6.5	8.4	8.1	18.5	8.7	3.9	4.5	2.5	5.6	5.6	7.9	00.0	100.
12	9.3	3.7	3.7	2.0	2.2	5.1	8.7	9.8	17.1	10.7	3.9	3.1	2.2	7.0	5.6	5.9	00.0	100.
13	7.6	5.3	2.0	2.0	1.7	6.2	7.0	9.8	17.9	9.8	3.6	3.4	3.1	7.8	7.3	5.6	00.0	100.
14	6.7	5.3	2.2	1.4	3.1	4.5	8.1	9.0	18.0	9.8	3.7	2.2	4.5	7.6	7.0	6.7	00.0	100.
15	8.4	4.8	2.0	2.0	1.1	6.2	8.4	9.6	17.4	9.6	2.2	1.4	3.7	8.7	5.9	8.7	00.0	100.
16	7.3	4.2	2.0	2.2	2.5	5.3	8.4	10.1	17.6	8.7	2.8	1.1	3.4	7.0	7.8	9.5	00.0	100.
17	6.4	5.0	2.5	1.4	3.4	5.9	8.4	10.1	17.6	7.0	2.8	1.7	2.5	7.6	6.7	10.9	00.0	100.
18	7.0	3.1	2.2	3.1	3.1	7.0	8.7	12.0	16.5	6.1	2.2	2.2	2.5	5.6	7.5	11.2	00.0	100.
19	7.0	3.4	2.5	3.6	4.5	6.1	10.1	13.4	14.2	4.2	3.1	3.4	3.1	4.7	5.9	10.9	00.0	100.
20	7.5	5.0	2.5	3.6	3.4	6.7	10.6	14.8	12.0	5.3	3.4	2.5	3.4	3.9	6.7	8.4	.3	100.
21	7.5	4.2	2.5	3.4	4.2	5.0	10.6	17.0	12.0	4.2	3.9	2.2	2.5	3.4	7.3	10.1	00.0	100.
22	6.7	3.9	2.5	2.5	4.5	7.0	8.9	17.3	13.1	4.7	2.5	2.8	3.1	3.1	6.7	10.6	00.0	100.
23	7.3	3.9	2.2	2.5	3.1	7.3	8.1	14.0	15.4	8.4	2.8	2.0	2.5	5.0	7.0	8.7	00.0	100.
24	7.3	3.9	3.9	1.4	4.5	5.9	7.3	12.3	18.2	7.5	2.8	2.5	2.8	4.5	7.0	8.4	00.0	100.
ALL	7.5	4.3	2.7	2.5	2.9	6.0	8.1	11.3	15.6	8.2	3.9	3.0	3.2	5.5	7.0	8.2	.0	100.

NUMBER OF OBS = 8576

Precipitation

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	1	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01
5	1	3	.04	.03	.02	.00	.00	.04	.11	.05	.00	.00	.00	.00	
			.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32
5	1	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.01	.04	.06	.02	.00	.02	.01	.02	.04	.22
5	1	5	.01	.02	.02	.02	.01	.00	.01	.01	.00	.00	.00	.00	
			.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.11
5	1	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01
5	1	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01
5	1	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
			.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
5	1	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	1	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	1	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF JANUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 31
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - .71 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .11 INCHES
MAXIMUM DAILY PRECIPITATION - .32 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 3 HOUR 7 - .11 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 3 HOUR 3 - .22 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 2 HOUR 24 - .30 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 2 HOUR 24 - .33 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 2 HOUR 24 - .33 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 511
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 28
TOTAL DAYS WITH PRECIPITATION - 6
TOTAL AMOUNT OF PRECIPITATION - .68 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .11 INCHES
MAXIMUM DAILY PRECIPITATION - .32 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF JANUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	31	70	103	127	151
.02	15	45	64	83	101
.03	8	38	59	79	97
.04	7	30	42	58	76
.05	3	30	42	54	66
.07	1	26	39	51	63
.10	1	22	35	48	60
.15	0	8	26	39	51
.20	0	5	17	30	44
.25	0	0	11	24	36
.30	0	0	4	17	29
.35	0	0	0	0	0
.40	0	0	0	0	0
.45	0	0	0	0	0
.50	0	0	0	0	0
.60	0	0	0	0	0
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	2	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	6	.00	.00	.00	.02	.09	.08	.12	.07	.10	.06	.04	.04	
			.04	.01	.00	.00	.00	.01	.01	.00	.00	.01	.05	.03	.78
5	2	7	.02	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
5	2	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.02	.03	.02	.03	.01	.00	.00	.00	.00	.00	.11
5	2	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.01
5	2	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.04	.15	.10	.12	.17	.10	.06	.04	.12	.18	1.08
5	2	13	.09	.10	.03	.01	.00	.00	.00	.00	.00	.01	.01	.01	
			.00	.01	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.32
5	2	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	2	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
5	2	20	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
5	2	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	2	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.01	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
5	2	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF FEBRUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 672
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 51
TOTAL DAYS WITH PRECIPITATION - 9
TOTAL AMOUNT OF PRECIPITATION - 2.43 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .18 INCHES
MAXIMUM DAILY PRECIPITATION - 1.08 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 12 HOUR 24 - .18 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 12 HOUR 16 - .70 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 12 HOUR 15 - 1.27 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 12 HOUR 15 - 1.31 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 12 HOUR 15 - 1.35 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 208
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 13
TOTAL DAYS WITH PRECIPITATION - 4
TOTAL AMOUNT OF PRECIPITATION - .27 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .05 INCHES
MAXIMUM DAILY PRECIPITATION - .11 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF FEBRUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	51	97	139	181	216
.02	35	79	111	141	172
.03	27	70	105	135	166
.04	22	56	83	101	123
.05	17	51	80	98	117
.07	14	44	74	92	110
.10	10	36	61	81	99
.15	3	25	49	62	74
.20	0	22	35	51	63
.25	0	21	34	49	61
.30	0	19	32	47	59
.35	0	18	30	44	56
.40	0	16	28	42	54
.45	0	13	26	40	53
.50	0	11	24	38	51
.60	0	4	18	33	46
.70	0	1	11	17	32
.80	0	0	8	14	25
.90	0	0	8	14	20
1.00	0	0	6	12	18
1.10	0	0	4	10	17
1.20	0	0	2	8	15
1.30	0	0	0	6	13
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	3	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	3	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05
5	3	22	.03	.01	.00	.00	.02	.00	.00	.00	.00	.00	.00	.01	
			.00	.01	.01	.02	.01	.00	.00	.02	.00	.00	.00	.00	.14
5	3	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	24	.00	.00	.00	.01	.00	.03	.02	.03	.03	.04	.02	.00	
			.01	.00	.00	.00	.00	.00	.00	.01	.00	.01	.00	.00	.21
5	3	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	3	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	.00
5	3	30	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	.00
5	3	31	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF MARCH

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 59
TOTAL HOURS OF PRECIPITATION - 21
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - .40 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .04 INCHES
MAXIMUM DAILY PRECIPITATION - .21 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 10 - .04 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 6 - .17 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 4 - .19 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 6 - .20 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 4 - .21 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 121
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF MARCH

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	21	49	63	75	87
.02	12	39	59	71	83
.03	6	27	48	60	72
.04	1	23	45	57	69
.05	0	22	42	56	68
.07	0	13	33	51	63
.10	0	6	18	35	48
.15	0	2	9	18	30
.20	0	0	0	4	10
.25	0	0	0	0	0
.30	0	0	0	0	0
.35	0	0	0	0	0
.40	0	0	0	0	0
.45	0	0	0	0	0
.50	0	0	0	0	0
.60	0	0	0	0	0
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JAN-MAR INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2160
NUMBER OF MISSING HOURS - 59
TOTAL HOURS OF PRECIPITATION - 103
TOTAL DAYS WITH PRECIPITATION - 19
TOTAL AMOUNT OF PRECIPITATION - 3.54 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .18 INCHES
MAXIMUM DAILY PRECIPITATION - 1.08 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 2 DAY 12 HOUR 24 - .18 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 2 DAY 12 HOUR 16 - .70 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 2 DAY 12 HOUR 15 - 1.27 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 2 DAY 12 HOUR 15 - 1.31 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 2 DAY 12 HOUR 15 - 1.35 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 840
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 41
TOTAL DAYS WITH PRECIPITATION - 10
TOTAL AMOUNT OF PRECIPITATION - .95 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .11 INCHES
MAXIMUM DAILY PRECIPITATION - .32 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JAN-MAR INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	103	216	305	383	454
.02	62	163	234	295	356
.03	41	135	212	274	335
.04	30	109	170	216	268
.05	20	103	164	208	251
.07	15	83	146	194	236
.10	11	64	114	164	207
.15	3	35	84	119	155
.20	0	27	52	85	117
.25	0	21	45	73	97
.30	0	19	36	64	88
.35	0	18	30	44	56
.40	0	16	28	42	54
.45	0	13	26	40	53
.50	0	11	24	38	51
.60	0	4	18	33	46
.70	0	1	11	17	32
.80	0	0	8	14	25
.90	0	0	8	14	20
1.00	0	0	6	12	18
1.10	0	0	4	10	17
1.20	0	0	2	8	15
1.30	0	0	0	6	13
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	4	1	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	4	.00	.00	.00	.00	.00	.00	.00	9.99	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	.00
5	4	5	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	6	.00	.00	.00	.00	.00	.00	.00	.01	.08	.57	.16	.21	
			.20	.17	.08	.00	.00	.00	.00	.01	.00	.00	.00	.00	1.49
5	4	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.31	.02	.00	.33
5	4	11	.00	.15	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.10	.08	.22	.25	.08	.05	.00	.00	.95
5	4	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	16	.00	.00	.02	.00	.01	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
5	4	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	4	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.24	.41
5	4	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	20	.00	.00	.00	.00	.21	.04	.02	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.43
5	4	21	.29	.44	.25	.03	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.06	.03	.00	.00	.00	.00	.00	.00	1.10
5	4	22	.00	.00	.00	.00	.00	.00	.04	.05	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
5	4	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.05
5	4	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	28	.00	.00	.00	.04	.05	.02	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
5	4	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	4	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF APRIL

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 44
TOTAL HOURS OF PRECIPITATION - 41
TOTAL DAYS WITH PRECIPITATION - 10
TOTAL AMOUNT OF PRECIPITATION - 4.99 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .57 INCHES
MAXIMUM DAILY PRECIPITATION - 1.49 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 6 HOUR 10 - .57 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 6 HOUR 10 - 1.39 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 6 HOUR 9 - 1.48 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 6 HOUR 8 - 1.49 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 6 HOUR 8 - 1.49 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 4
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF APRIL

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	41	108	180	231	273
.02	37	99	171	222	264
.03	31	88	154	207	249
.04	29	82	142	191	227
.05	25	79	139	189	225
.07	21	70	124	169	200
.10	17	56	98	143	180
.15	16	50	86	123	154
.20	11	43	79	117	144
.25	6	41	77	115	142
.30	3	34	64	96	123
.35	2	30	60	92	119
.40	2	24	48	77	105
.45	1	23	47	72	93
.50	1	20	44	69	91
.60	0	19	37	55	77
.70	0	14	32	50	71
.80	0	11	23	36	56
.90	0	8	20	32	52
1.00	0	8	20	32	47
1.10	0	6	18	31	46
1.20	0	3	9	16	32
1.30	0	2	8	14	22
1.40	0	0	8	14	22
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	5	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.06	.11	.15	.01	.00	.00	.33
5	5	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.03	.01	.00	.00	.04	.08
5	5	12	.00	.02	.00	.00	.00	.21	.58	.01	.00	.00	.00	.00	
			.00	.00	.00	.04	.37	.13	.11	.02	.01	.02	.01	.00	1.53
5	5	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	00
5	5	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	5	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.03
5	5	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.04
5	5	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	5	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.01	.04	.01	.59	.67	.09	.14	.14	1.69

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF MAY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 29
TOTAL DAYS WITH PRECIPITATION - 6
TOTAL AMOUNT OF PRECIPITATION - 3.70 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .67 INCHES
MAXIMUM DAILY PRECIPITATION - 1.69 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 21 - .67 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 19 - 1.64 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 13 - 1.69 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 7 - 1.69 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 1 - 1.69 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF MAY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	29	60	86	110	134
.02	22	56	83	107	131
.03	19	56	83	107	131
.04	17	48	69	87	105
.05	13	37	53	65	77
.07	12	30	49	61	73
.10	11	27	47	59	71
.15	6	27	43	55	67
.20	5	24	40	52	64
.25	4	23	40	52	64
.30	4	22	39	51	63
.35	4	17	27	33	39
.40	3	17	27	33	39
.45	3	16	27	33	39
.50	3	16	27	33	39
.60	1	14	27	33	39
.70	0	9	22	31	37
.80	0	9	16	22	28
.90	0	4	6	19	27
1.00	0	4	6	12	18
1.10	0	4	6	12	18
1.20	0	4	5	12	18
1.30	0	4	4	11	18
1.40	0	3	3	8	15
1.50	0	2	2	4	13
1.60	0	1	1	1	1
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	6	1	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
5	6	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	3	.00	.00	.00	.00	.64	.11	.04	.01	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.80
5	6	4	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.06
5	6	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.12	.01	.00	.00	.00	.00	.00	.13
5	6	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.94	.96
5	6	10	.09	.17	.11	.12	.42	.01	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.96
5	6	11	.00	.01	.04	.34	.05	.00	.00	.00	.01	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45
5	6	12	.00	.00	.00	.00	.00	.00	.00	.19	.05	.02	.00	.00	
			.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.27
5	6	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	6	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6	28	.00	.00	.05	.20	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
5	6	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.03	.01	.08
5	6	30	.01	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF JUNE

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 38
TOTAL DAYS WITH PRECIPITATION - 11
TOTAL AMOUNT OF PRECIPITATION - 4.13 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .94 INCHES
MAXIMUM DAILY PRECIPITATION - .96 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 9 HOUR 24 - .94 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 9 HOUR 24 - 1.85 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 9 HOUR 24 - 1.86 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 9 HOUR 14 - 1.88 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 9 HOUR 24 - 1.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF JUNE

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	38	100	158	209	235
.02	26	82	140	193	225
.03	22	68	117	165	203
.04	21	67	115	163	200
.05	17	56	98	143	188
.07	13	50	93	135	176
.10	11	44	86	128	169
.15	7	36	66	96	129
.20	5	34	64	94	125
.25	4	32	62	92	121
.30	4	23	41	59	76
.35	3	23	41	59	76
.40	3	23	41	59	76
.45	2	16	37	55	74
.50	2	16	28	40	53
.60	2	15	27	39	53
.70	1	13	25	37	51
.80	1	11	23	35	48
.90	1	7	13	19	25
1.00	0	5	11	17	23
1.10	0	4	10	16	22
1.20	0	4	10	16	22
1.30	0	3	9	15	21
1.40	0	2	8	14	20
1.50	0	1	7	13	19
1.60	0	1	7	13	19
1.70	0	1	7	13	19
1.80	0	1	7	13	19
1.90	0	0	0	0	1
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

APR-JUN INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2184
NUMBER OF MISSING HOURS - 44
TOTAL HOURS OF PRECIPITATION - 108
TOTAL DAYS WITH PRECIPITATION - 27
TOTAL AMOUNT OF PRECIPITATION - 12.82 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .94 INCHES
MAXIMUM DAILY PRECIPITATION - 1.69 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 24 - .94 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 24 - 1.85 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 24 - 1.86 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 14 - 1.88 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 24 - 1.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 4
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

APR-JUN INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	108	273	435	567	665
.02	85	242	405	539	643
.03	72	217	365	496	606
.04	67	202	337	458	555
.05	55	177	301	414	513
.07	46	155	277	382	472
.10	39	132	242	347	443
.15	29	118	206	291	373
.20	21	106	194	280	356
.25	14	101	190	276	350
.30	11	83	154	222	284
.35	9	74	138	200	256
.40	8	68	126	185	242
.45	6	58	120	175	227
.50	6	55	108	157	204
.60	3	50	99	141	189
.70	1	38	87	132	179
.80	1	33	70	107	152
.90	1	21	47	84	124
1.00	0	19	45	75	108
1.10	0	16	42	73	106
1.20	0	12	31	57	91
1.30	0	10	28	53	80
1.40	0	6	26	49	76
1.50	0	4	16	30	51
1.60	0	3	15	27	39
1.70	0	2	14	26	38
1.80	0	1	11	23	35
1.90	0	0	0	0	1
2.00	0	0	0	0	0

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JAN-JUN INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4344
NUMBER OF MISSING HOURS - 103
TOTAL HOURS OF PRECIPITATION - 211
TOTAL DAYS WITH PRECIPITATION - 46
TOTAL AMOUNT OF PRECIPITATION - 16.36 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .94 INCHES
MAXIMUM DAILY PRECIPITATION - 1.69 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 24 - .94 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 24 - 1.85 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 24 - 1.86 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 14 - 1.88 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 9 HOUR 24 - 1.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 844
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 41
TOTAL DAYS WITH PRECIPITATION - 10
TOTAL AMOUNT OF PRECIPITATION - .95 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .11 INCHES
MAXIMUM DAILY PRECIPITATION - .32 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JAN-JUN INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	211	489	740	950	1119
.02	147	405	639	834	999
.03	113	352	577	770	941
.04	97	311	507	674	823
.05	75	280	465	622	764
.07	61	238	423	576	708
.10	50	196	356	511	650
.15	32	153	290	410	528
.20	21	133	246	365	473
.25	14	122	235	349	447
.30	11	102	190	286	372
.35	9	92	168	244	312
.40	8	84	154	227	296
.45	6	71	146	215	280
.50	6	66	132	195	255
.60	3	54	117	174	235
.70	1	39	98	149	211
.80	1	33	78	121	177
.90	1	21	55	98	144
1.00	0	19	51	87	126
1.10	0	16	46	83	123
1.20	0	12	33	65	106
1.30	0	10	28	59	93
1.40	0	6	26	49	76
1.50	0	4	16	30	51
1.60	0	3	15	27	39
1.70	0	2	14	26	38
1.80	0	1	11	23	35
1.90	0	0	0	0	1
2.00	0	0	0	0	0

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	7	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	2	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
5	7	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
5	7	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.08

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	7	18	1.01	.14	.14	.17	.01	.00	.01	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.48
5	7	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31	.31
5	7	26	.01	.31	.70	.21	.17	.11	.47	.66	.32	.06	.00	.01	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.03
5	7	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	7	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF JULY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 21
TOTAL DAYS WITH PRECIPITATION - 6
TOTAL AMOUNT OF PRECIPITATION - 4.94 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.01 INCHES
MAXIMUM DAILY PRECIPITATION - 3.03 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 18 HOUR 1 - 1.01 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 26 HOUR 3 - 2.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 24 - 3.33 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 24 - 3.34 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 24 - 3.34 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF JULY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	21	43	67	91	115
.02	16	33	51	69	87
.03	16	32	50	68	86
.04	15	26	38	50	62
.05	15	26	38	50	62
.07	14	26	38	50	62
.10	13	24	36	48	60
.15	10	24	36	48	60
.20	8	23	35	47	59
.25	7	23	35	47	59
.30	7	23	35	47	59
.35	4	20	32	44	56
.40	4	19	31	43	55
.45	4	19	31	43	55
.50	3	18	30	42	54
.60	3	18	30	42	54
.70	2	17	29	41	53
.80	1	17	29	41	53
.90	1	17	29	41	53
1.00	1	17	29	41	53
1.10	0	15	27	39	51
1.20	0	15	27	39	51
1.30	0	14	26	38	50
1.40	0	12	24	36	48
1.50	0	11	23	35	47
1.60	0	6	13	19	25
1.70	0	5	12	18	24
1.80	0	3	11	17	23
1.90	0	3	9	15	21
2.00	0	1	9	15	21

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	8	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.01	.19	.01	.00	.00	.00	.00	.21
5	8	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	8	.00	.00	.00	.17	.00	.01	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
5	8	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	12	.01	.00	.00	.00	.03	.19	.64	.00	.01	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88
5	8	13	.02	.27	.36	.22	.09	.05	.00	.04	.13	.24	.30	.52	
			.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.35
5	8	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	8	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.03	.00	.00	.01	.06	.10	.02	.00	.00	.00	.22
5	8	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	26	.00	.00	.00	.10	.00	.01	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
5	8	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
5	8	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	8	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF AUGUST

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 30
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - 3.96 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .64 INCHES
MAXIMUM DAILY PRECIPITATION - 2.35 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 12 HOUR 7 - .64 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 13 HOUR 8 - 1.34 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 13 HOUR 2 - 2.33 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 13 HOUR 1 - 2.35 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 13 HOUR 1 - 2.35 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF AUGUST

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	30	74	116	156	192
.02	22	56	92	128	158
.03	20	54	90	127	157
.04	18	51	87	123	154
.05	17	49	85	121	152
.07	15	49	85	121	152
.10	14	49	85	121	152
.15	10	40	70	100	125
.20	7	30	54	78	97
.25	5	22	34	46	53
.30	4	21	33	46	53
.35	3	21	33	45	53
.40	2	21	33	45	53
.45	2	21	33	45	53
.50	2	21	33	45	53
.60	1	19	33	45	53
.70	0	16	30	42	52
.80	0	14	30	42	52
.90	0	8	18	24	33
1.00	0	5	16	22	32
1.10	0	4	13	19	30
1.20	0	3	11	17	27
1.30	0	2	11	17	27
1.40	0	0	7	13	23
1.50	0	0	5	11	21
1.60	0	0	5	11	20
1.70	0	0	5	11	19
1.80	0	0	3	9	16
1.90	0	0	3	9	15
2.00	0	0	3	9	15

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	9	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	8	.00	.00	.00	.00	.00	.00	.31	.06	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37
5	9	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.03	
			.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
5	9	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	9	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	9	26	.00	.00	.00	.00	.00	.00	.00	.00	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	.00
5	9	27	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	.00
5	9	28	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	.00
5	9	29	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	9.99	9.99	.00	.00	.00	.00	.00	.00	.00	.00
5	9	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF SEPTEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 81
TOTAL HOURS OF PRECIPITATION - 6
TOTAL DAYS WITH PRECIPITATION - 2
TOTAL AMOUNT OF PRECIPITATION - .45 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .31 INCHES
MAXIMUM DAILY PRECIPITATION - .37 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 8 HOUR 7 - .31 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 8 HOUR 7 - .37 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 8 HOUR 7 - .37 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 8 HOUR 7 - .37 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 8 HOUR 7 - .37 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF SEPTEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	6	16	28	40	52
.02	4	14	26	38	50
.03	4	14	26	38	50
.04	2	14	26	38	50
.05	2	12	24	36	48
.07	1	11	23	35	47
.10	1	6	12	18	24
.15	1	6	12	18	24
.20	1	6	12	18	24
.25	1	6	12	18	24
.30	1	6	12	18	24
.35	0	5	11	17	23
.40	0	0	0	0	0
.45	0	0	0	0	0
.50	0	0	0	0	0
.60	0	0	0	0	0
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JUL-SEP INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208
NUMBER OF MISSING HOURS - 81
TOTAL HOURS OF PRECIPITATION - 57
TOTAL DAYS WITH PRECIPITATION - 15
TOTAL AMOUNT OF PRECIPITATION - 9.35 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.01 INCHES
MAXIMUM DAILY PRECIPITATION - 3.03 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 18 HOUR 1 - 1.01 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 26 HOUR 3 - 2.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.33 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.34 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.34 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JUL-SEP INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	57	133	211	287	359
.02	42	103	169	235	295
.03	40	100	166	233	293
.04	35	91	151	211	266
.05	34	87	147	207	262
.07	30	86	146	206	261
.10	28	79	133	187	236
.15	21	70	118	166	209
.20	16	59	101	143	180
.25	13	51	81	111	136
.30	12	50	80	111	136
.35	7	46	76	106	132
.40	6	40	64	88	108
.45	6	40	64	88	108
.50	5	39	63	87	107
.60	4	37	63	87	107
.70	2	33	59	83	105
.80	1	31	59	83	105
.90	1	25	47	65	86
1.00	1	22	45	63	85
1.10	0	19	40	58	81
1.20	0	18	38	56	78
1.30	0	16	37	55	77
1.40	0	12	31	49	71
1.50	0	11	28	46	68
1.60	0	6	18	30	45
1.70	0	5	17	29	43
1.80	0	3	14	26	39
1.90	0	3	12	24	36
2.00	0	1	12	24	36

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	10	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.01	.02	.01	.00	.00	.00	.01	.05
5	10	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	5	.00	.00	.00	.00	.00	.00	.00	.02	.13	.03	.01	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
5	10	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.04
5	10	12	.00	.00	.00	.05	.02	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
5	10	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	10	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.02	.04	.00	.00	.00	.00	.00	.00	.00	.04	.16	.26
5	10	20	.32	.08	.06	.00	.00	.00	.00	.00	.04	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50
5	10	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.06	.00	
			.00	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.12
5	10	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	10	30	.00	.00	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
5	10	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF OCTOBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 27
TOTAL DAYS WITH PRECIPITATION - 8
TOTAL AMOUNT OF PRECIPITATION - 1.26 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .32 INCHES
MAXIMUM DAILY PRECIPITATION - .50 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 20 HOUR 1 - .32 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 19 HOUR 23 - .66 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 19 HOUR 23 - .70 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 19 HOUR 14 - .72 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 19 HOUR 14 - .76 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 10
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF OCTOBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	27	84	127	163	193
.02	18	65	106	142	173
.03	12	57	95	131	162
.04	11	47	79	113	139
.05	7	32	66	96	126
.07	4	26	52	76	100
.10	3	19	45	69	93
.15	2	13	26	38	50
.20	1	7	13	19	25
.25	1	6	13	19	25
.30	1	6	12	18	24
.35	0	6	12	18	24
.40	0	6	12	18	24
.45	0	6	12	18	24
.50	0	5	12	18	24
.60	0	4	10	16	22
.70	0	0	2	14	20
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	11	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	15	.00	.00	.00	.00	.00	.06	.11	.08	.07	.07	.05	.07	
			.04	.05	.03	.00	.01	.00	.00	.00	.00	.00	.00	.00	.64
5	11	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	TOTAL
5	11	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
5	11	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.03	.03	.11	.00	.00	.00	.00	.00	.00	.17
5	11	28	.00	.00	.01	.00	.00	.03	.01	.00	.02	.02	.00	.00	
			.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
5	11	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	11	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.03	.01	.02	.00	.06

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF NOVEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 24
TOTAL DAYS WITH PRECIPITATION - 5
TOTAL AMOUNT OF PRECIPITATION - .98 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .11 INCHES
MAXIMUM DAILY PRECIPITATION - .64 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 27 HOUR 18 - .11 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 15 HOUR 7 - .45 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 15 HOUR 6 - .64 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 15 HOUR 6 - .64 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 15 HOUR 6 - .64 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 133
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 4
TOTAL DAYS WITH PRECIPITATION - 2
TOTAL AMOUNT OF PRECIPITATION - .08 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .03 INCHES
MAXIMUM DAILY PRECIPITATION - .06 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF NOVEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	24	51	72	90	108
.02	18	37	55	67	79
.03	15	37	55	67	79
.04	10	34	52	64	76
.05	9	31	49	62	74
.07	6	21	40	55	67
.10	2	18	32	50	63
.15	0	15	28	41	53
.20	0	10	16	28	40
.25	0	8	15	21	33
.30	0	7	13	19	25
.35	0	5	11	17	23
.40	0	2	9	15	21
.45	0	1	8	14	20
.50	0	0	7	13	19
.60	0	0	4	10	16
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	12	1	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
5	12	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.03	.04	.00	.00	.00	.07
5	12	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
5	12	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.05
5	12	8	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
5	12	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.05	.01	.01	.03	.01	.00	.00	.00	.11
5	12	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
5	12	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01	.02
5	12	24	.03	.09	.10	.09	.10	.08	.03	.02	.00	.01	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55
5	12	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	12	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF DECEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 26
TOTAL DAYS WITH PRECIPITATION - 8
TOTAL AMOUNT OF PRECIPITATION - .83 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .10 INCHES
MAXIMUM DAILY PRECIPITATION - .55 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 5 - .10 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 2 - .49 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 23 HOUR 24 - .56 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 23 HOUR 18 - .57 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 23 HOUR 18 - .57 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 420
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 10
TOTAL DAYS WITH PRECIPITATION - 5
TOTAL AMOUNT OF PRECIPITATION - .15 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .04 INCHES
MAXIMUM DAILY PRECIPITATION - .07 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

MONTH OF DECEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	26	58	88	115	139
.02	12	38	63	87	111
.03	11	36	60	84	108
.04	7	32	56	80	104
.05	6	27	52	77	101
.07	5	19	37	55	73
.10	2	13	25	37	49
.15	0	8	14	20	26
.20	0	8	14	20	26
.25	0	6	12	18	24
.30	0	6	12	18	24
.35	0	4	10	16	22
.40	0	4	10	16	22
.45	0	2	8	14	20
.50	0	0	8	14	20
.60	0	0	0	0	0
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

OCT-DEC INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 77
TOTAL DAYS WITH PRECIPITATION - 21
TOTAL AMOUNT OF PRECIPITATION - 3.07 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .32 INCHES
MAXIMUM DAILY PRECIPITATION - .64 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 20 HOUR 1 - .32 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 19 HOUR 23 - .66 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 19 HOUR 23 - .70 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 19 HOUR 14 - .72 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 19 HOUR 14 - .76 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 563
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 14
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - .23 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .04 INCHES
MAXIMUM DAILY PRECIPITATION - .07 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

OCT-DEC INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	77	198	298	385	463
.02	48	144	234	312	385
.03	38	134	220	298	371
.04	28	116	196	272	340
.05	22	92	175	249	321
.07	15	68	137	200	260
.10	7	50	102	156	205
.15	2	36	68	99	129
.20	1	25	43	67	91
.25	1	20	40	58	82
.30	1	19	37	55	73
.35	0	15	33	51	69
.40	0	12	31	49	67
.45	0	9	28	46	64
.50	0	5	27	45	63
.60	0	4	14	26	38
.70	0	0	2	14	20
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JUL-DEC INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4416
NUMBER OF MISSING HOURS - 81
TOTAL HOURS OF PRECIPITATION - 134
TOTAL DAYS WITH PRECIPITATION - 36
TOTAL AMOUNT OF PRECIPITATION - 12.42 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.01 INCHES
MAXIMUM DAILY PRECIPITATION - 3.03 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 18 HOUR 1 - 1.01 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 26 HOUR 3 - 2.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.33 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.34 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.34 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 563
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 14
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - .23 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .04 INCHES
MAXIMUM DAILY PRECIPITATION - .07 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JUL-DEC INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	134	331	509	672	828
.02	90	247	403	547	685
.03	78	234	386	531	669
.04	63	207	347	483	610
.05	56	179	322	456	583
.07	45	154	283	406	521
.10	35	129	235	343	441
.15	23	106	186	265	338
.20	17	84	144	210	271
.25	14	71	121	169	218
.30	13	69	117	166	209
.35	7	61	109	157	201
.40	6	52	95	137	175
.45	6	49	92	134	172
.50	5	44	90	132	170
.60	4	41	77	113	145
.70	2	33	61	97	125
.80	1	31	59	83	105
.90	1	25	47	65	86
1.00	1	22	45	63	85
1.10	0	19	40	58	81
1.20	0	18	38	56	78
1.30	0	16	37	55	77
1.40	0	12	31	49	71
1.50	0	11	28	46	68
1.60	0	6	18	30	45
1.70	0	5	17	29	43
1.80	0	3	14	26	39
1.90	0	3	12	24	36
2.00	0	1	12	24	36

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JAN-DEC INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 8760
NUMBER OF MISSING HOURS - 184
TOTAL HOURS OF PRECIPITATION - 345
TOTAL DAYS WITH PRECIPITATION - 82
TOTAL AMOUNT OF PRECIPITATION - 28.78 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.01 INCHES
MAXIMUM DAILY PRECIPITATION - 3.03 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 18 HOUR 1 - 1.01 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 26 HOUR 3 - 2.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.33 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.34 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 25 HOUR 24 - 3.34 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 1407
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 55
TOTAL DAYS WITH PRECIPITATION - 17
TOTAL AMOUNT OF PRECIPITATION - 1.18 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .11 INCHES
MAXIMUM DAILY PRECIPITATION - .32 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2005 RAIN VERSION PC-1.0

JAN-DEC INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	345	820	1249	1622	1951
.02	237	652	1042	1381	1685
.03	191	586	963	1301	1610
.04	160	518	854	1157	1433
.05	131	459	787	1078	1347
.07	106	392	706	982	1229
.10	85	325	591	854	1091
.15	55	259	476	675	866
.20	38	217	390	575	744
.25	28	193	356	518	665
.30	24	171	307	452	581
.35	16	153	277	401	513
.40	14	136	249	364	471
.45	12	120	238	349	452
.50	11	110	222	327	425
.60	7	95	194	287	380
.70	3	72	159	246	336
.80	2	64	137	204	282
.90	2	46	102	163	230
1.00	1	41	96	150	211
1.10	0	35	86	141	204
1.20	0	30	71	121	184
1.30	0	26	65	114	170
1.40	0	18	57	98	147
1.50	0	15	44	76	119
1.60	0	9	33	57	84
1.70	0	7	31	55	81
1.80	0	4	25	49	74
1.90	0	3	12	24	37
2.00	0	1	12	24	36

JOINT FREQUENCY DISTRIBUTION TABLES

The tables presented in this section are results obtained from processing of the hourly meteorological data collected at the Cooper Nuclear Station. The joint frequency distribution (JFD) tables represent the frequency of occurrence, in number of observations, that a particular wind speed, wind direction, and stability category occurred simultaneously. On a quarterly and semiannual basis, the JFDs were produced for wind speed and wind direction by atmospheric stability corresponding to the seven Pasquill stability classes, and for wind speed and wind direction for all stability categories combined. Atmospheric stability was classified per Regulatory Guide 1.23, using the 100-meter to 10-meter temperature difference (delta T) for the 100-meter JFDs and the 60-meter to 10-meter delta T for the 10-meter JFDs.

JFDs of 10-Meter Wind vs. Delta T

January-March 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	13	2	0	0	0	0	0	0	0	2	1	0	0	1	0	4	23
12.51-18.50	3	0	0	0	0	0	0	0	1	7	2	0	2	0	1	3	19
18.51-24.00	0	0	0	0	0	0	0	0	0	4	2	0	0	0	1	2	9
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	4	7
TOTAL	16	2	0	0	0	0	0	0	1	13	6	0	2	1	4	13	58

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	3	2	2	5	0	1	1	1	1	2	0	2	1	2	2	3	28
7.51-12.50	6	2	2	0	0	6	4	0	1	2	0	0	0	1	0	1	25
12.51-18.50	0	1	0	0	0	0	0	0	1	2	3	0	0	1	0	2	10
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	3	1	10	15
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	4
TOTAL	9	5	4	5	0	7	5	1	3	7	4	2	1	7	6	16	82

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	1	0	0	2	0	1	1	0	0	0	0	0	0	0	5
3.51- 7.50	5	8	2	1	3	5	3	3	3	3	1	2	1	2	0	1	43
7.51-12.50	16	4	0	1	0	6	7	0	1	3	0	1	2	2	5	11	59
12.51-18.50	0	1	0	0	0	0	0	0	5	2	0	0	0	2	0	6	16
18.51-24.00	0	0	0	0	0	1	0	0	1	4	0	1	1	3	2	1	14
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
TOTAL	21	13	3	2	3	14	10	4	11	12	1	4	4	9	10	19	140

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	5	6	7	5	3	8	15	4	18	11	5	6	3	2	1	6	105
3.51- 7.50	100	77	29	20	17	24	36	29	23	18	5	10	17	11	6	29	451
7.51-12.50	68	32	15	9	6	24	48	18	17	17	6	2	8	12	30	50	362
12.51-18.50	0	0	0	0	4	13	4	3	11	10	11	2	0	17	25	37	137
18.51-24.00	0	0	0	0	1	4	0	0	1	3	1	0	2	4	4	7	27
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	13
TOTAL	173	115	51	34	31	73	103	54	70	59	28	20	30	46	69	139	1095

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	24	11	7	3	1	5	7	5	14	8	7	3	5	4	10	8	122
3.51- 7.50	23	9	6	7	2	4	23	13	21	19	5	4	6	5	13	13	173
7.51-12.50	6	2	0	0	0	0	12	6	26	20	11	0	7	19	19	15	143
12.51-18.50	0	0	0	0	0	0	0	1	5	4	0	2	2	0	5	1	20
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	53	22	13	10	3	9	42	25	66	51	23	9	20	28	47	37	459

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	3
1.01- 3.50	5	2	0	1	0	0	2	12	24	5	4	1	4	2	7	8	77
3.51- 7.50	3	0	0	0	0	0	0	6	28	14	1	0	1	3	5	2	63
7.51-12.50	0	0	0	0	0	0	0	0	2	1	1	1	0	1	1	0	7
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	2	0	1	0	0	2	18	54	20	6	2	5	6	13	10	150

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	5	2	1	6	2	0	12	16	27	10	6	3	1	1	3	7	102
3.51- 7.50	0	0	0	0	0	0	0	3	5	4	2	0	0	0	0	1	15
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	2	1	6	2	0	12	19	32	14	8	3	1	1	3	8	117

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	4
1.01- 3.50	39	21	16	15	6	15	36	38	84	34	22	13	13	9	21	29	411
3.51- 7.50	134	96	39	33	22	34	63	55	81	60	14	18	26	23	26	49	773
7.51-12.50	109	42	17	10	6	36	71	24	47	45	19	4	17	36	55	81	619
12.51-18.50	3	2	0	0	4	13	4	4	23	25	16	4	4	20	31	49	202
18.51-24.00	0	0	0	0	1	5	0	0	2	12	3	1	3	10	8	20	65
>24.00	0	0	0	0	0	0	0	0	0	0	2	0	0	0	11	14	27
TOTAL	285	161	72	58	39	103	174	121	237	176	76	40	63	98	152	242	2101

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2101

TOTAL NUMBER OF MISSING OBSERVATIONS: 59

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.3 %

MEAN WIND SPEED FOR THIS PERIOD: 7.8 MPH

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.76	3.90	6.66	52.12	21.85	7.14	5.57

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	16	2	0	0	0	0	0	0	1	13	6	0	2	1	4	13	0
B	9	5	4	5	0	7	5	1	3	7	4	2	1	7	6	16	0
C	21	13	3	2	3	14	10	4	11	12	1	4	4	9	10	19	0
D	173	115	51	34	31	73	103	54	70	59	28	20	30	46	69	139	0
E	53	22	13	10	3	9	42	25	66	51	23	9	20	28	47	37	1
F	8	2	0	1	0	0	2	18	54	20	6	2	5	6	13	10	3
G	5	2	1	6	2	0	12	19	32	14	8	3	1	1	3	8	0
TOTAL	285	161	72	58	39	103	174	121	237	176	76	40	63	98	152	242	4

JFDs of 10-Meter Wind vs. Delta T

April-June 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3
7.51-12.50	1	7	0	0	0	0	12	29	19	11	0	0	0	0	0	1	80
12.51-18.50	0	0	0	0	0	0	6	14	52	13	0	0	0	1	5	9	100
18.51-24.00	0	0	0	0	0	0	0	3	12	1	0	0	0	0	1	2	19
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	7	0	0	0	0	18	47	85	25	0	0	0	1	6	12	202

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	2	0	1	2	0	5	2	2	0	1	0	0	1	2	19
7.51-12.50	3	3	1	0	0	9	15	14	12	10	2	0	0	1	4	7	81
12.51-18.50	0	0	1	0	0	0	7	5	7	4	0	0	0	6	10	1	41
18.51-24.00	0	0	0	0	0	0	0	1	8	0	0	0	0	2	4	4	19
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTAL	3	4	4	0	1	11	22	25	29	16	2	1	0	9	19	16	162

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	6	4	2	4	3	7	4	5	0	2	1	0	3	4	1	47
7.51-12.50	2	1	0	2	1	10	12	6	12	10	2	0	0	8	8	6	80
12.51-18.50	0	0	0	1	1	2	4	2	8	5	1	4	6	7	7	3	51
18.51-24.00	0	0	0	0	0	0	0	2	5	0	0	0	0	3	2	0	12
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL	3	7	4	5	6	15	24	14	30	15	5	5	6	21	21	11	192

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	4	1	2	1	1	1	2	2	3	3	1	1	2	0	1	26
3.51- 7.50	16	16	5	18	24	20	28	15	24	18	2	4	5	7	11	16	229
7.51-12.50	19	9	8	11	15	21	58	37	51	25	11	6	16	10	27	30	354
12.51-18.50	4	0	1	3	4	8	9	26	31	11	4	12	21	11	19	20	184
18.51-24.00	0	0	0	0	1	0	0	5	2	1	2	0	1	4	1	3	20
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL	40	29	15	34	45	50	96	85	110	58	22	23	44	34	58	71	814

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	8	4	3	0	4	2	3	12	7	8	3	1	6	6	3	5	75
3.51- 7.50	18	9	12	5	6	8	33	34	43	31	5	2	6	5	4	19	240
7.51-12.50	4	1	2	1	1	2	22	24	59	10	8	4	11	11	8	16	184
12.51-18.50	1	0	0	0	0	0	1	2	4	3	1	0	0	0	0	3	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	31	14	17	6	11	12	59	72	113	52	17	7	23	22	15	43	514

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	16	5	1	0	1	0	1	9	10	6	7	4	6	4	10	11	91
3.51- 7.50	9	0	0	1	0	1	1	4	8	16	1	0	2	8	9	5	65
7.51-12.50	0	0	0	0	0	0	0	0	0	1	0	2	1	4	0	0	8
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	25	5	1	1	1	1	2	13	18	23	8	6	9	16	19	16	166

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	6	3	2	3	0	0	2	14	12	8	7	2	0	1	11	8	79
3.51- 7.50	0	0	0	0	0	0	0	3	0	1	0	0	0	1	1	1	7
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	3	2	3	0	0	2	17	12	9	7	3	1	2	12	9	90

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	4
1.01- 3.50	31	16	7	5	6	3	8	37	31	25	20	8	13	13	24	25	272
3.51- 7.50	44	32	23	26	35	34	69	66	84	68	10	8	13	24	30	44	610
7.51-12.50	29	21	11	14	17	42	119	110	153	67	23	13	29	34	47	60	789
12.51-18.50	5	0	2	4	5	10	27	49	102	36	6	16	27	25	41	36	391
18.51-24.00	0	0	0	0	1	0	0	11	27	2	2	0	1	9	8	9	70
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
TOTAL	109	69	43	49	64	89	223	273	397	198	61	45	83	105	150	178	2140

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2140

TOTAL NUMBER OF MISSING OBSERVATIONS: 44

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.0 %

MEAN WIND SPEED FOR THIS PERIOD: 9.0 MPH

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
9.44	7.57	8.97	38.04	24.02	7.76	4.21

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	7	0	0	0	0	18	47	85	25	0	0	0	1	6	12	0
B	3	4	4	0	1	11	22	25	29	16	2	1	0	9	19	16	0
C	3	7	4	5	6	15	24	14	30	15	5	5	6	21	21	11	0
D	40	29	15	34	45	50	96	85	110	58	22	23	44	34	58	71	0
E	31	14	17	6	11	12	59	72	113	52	17	7	23	22	15	43	0
F	25	5	1	1	1	1	2	13	18	23	8	6	9	16	19	16	2
G	6	3	2	3	0	0	2	17	12	9	7	3	1	2	12	9	2
TOTAL	109	69	43	49	64	89	223	273	397	198	61	45	83	105	150	178	4

JFDs of 10-Meter Wind vs. Delta T

January-June 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	3
7.51-12.50	14	9	0	0	0	0	12	29	19	13	1	0	0	1	0	5	103
12.51-18.50	3	0	0	0	0	0	6	14	53	20	2	0	2	1	6	12	119
18.51-24.00	0	0	0	0	0	0	0	3	12	5	2	0	0	0	2	4	28
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	4	7
TOTAL	17	9	0	0	0	0	18	47	86	38	6	0	2	2	10	25	260

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	3	3	4	5	1	3	1	6	3	4	0	3	1	2	3	5	47
7.51-12.50	9	5	3	0	0	15	19	14	13	12	2	0	0	2	4	8	106
12.51-18.50	0	1	1	0	0	0	7	5	8	6	3	0	0	7	10	3	51
18.51-24.00	0	0	0	0	0	0	0	1	8	1	0	0	0	5	5	14	34
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	2	6
TOTAL	12	9	8	5	1	18	27	26	32	23	6	3	1	16	25	32	244

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	1	0	0	2	1	1	1	0	0	0	0	0	0	0	6
3.51- 7.50	6	14	6	3	7	8	10	7	8	3	3	3	1	5	4	2	90
7.51-12.50	18	5	0	3	1	16	19	6	13	13	2	1	2	10	13	17	139
12.51-18.50	0	1	0	1	1	2	4	2	13	7	1	4	6	9	7	9	67
18.51-24.00	0	0	0	0	0	1	0	2	6	4	0	1	1	6	4	1	26
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4
TOTAL	24	20	7	7	9	29	34	18	41	27	6	9	10	30	31	30	332

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	6	10	8	7	4	9	16	6	20	14	8	7	4	4	1	7	131
3.51- 7.50	116	93	34	38	41	44	64	44	47	36	7	14	22	18	17	45	680
7.51-12.50	87	41	23	20	21	45	106	55	68	42	17	8	24	22	57	80	716
12.51-18.50	4	0	1	3	8	21	13	29	42	21	15	14	21	28	44	57	321
18.51-24.00	0	0	0	0	2	4	0	5	3	4	3	0	3	8	5	10	47
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	14
TOTAL	213	144	66	68	76	123	199	139	180	117	50	43	74	80	127	210	1909

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	32	15	10	3	5	7	10	17	21	16	10	4	11	10	13	13	197
3.51- 7.50	41	18	18	12	8	12	56	47	64	50	10	6	12	10	17	32	413
7.51-12.50	10	3	2	1	1	2	34	30	85	30	19	4	18	30	27	31	327
12.51-18.50	1	0	0	0	0	0	1	3	9	7	1	2	2	0	5	4	35
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	84	36	30	16	14	21	101	97	179	103	40	16	43	50	62	80	973

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	5
1.01- 3.50	21	7	1	1	1	0	3	21	34	11	11	5	10	6	17	19	168
3.51- 7.50	12	0	0	1	0	1	1	10	36	30	2	0	3	11	14	7	128
7.51-12.50	0	0	0	0	0	0	0	0	2	2	1	3	1	5	1	0	15
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	33	7	1	2	1	1	4	31	72	43	14	8	14	22	32	26	316

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	11	5	3	9	2	0	14	30	39	18	13	5	1	2	14	15	181
3.51- 7.50	0	0	0	0	0	0	0	6	5	5	2	0	0	1	1	2	22
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	5	3	9	2	0	14	36	44	23	15	6	2	3	15	17	207

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	8
1.01- 3.50	70	37	23	20	12	18	44	75	115	59	42	21	26	22	45	54	683
3.51- 7.50	178	128	62	59	57	68	132	121	165	128	24	26	39	47	56	93	1383
7.51-12.50	138	63	28	24	23	78	190	134	200	112	42	17	46	70	102	141	1408
12.51-18.50	8	2	2	4	9	23	31	53	125	61	22	20	31	45	72	85	593
18.51-24.00	0	0	0	0	2	5	0	11	29	14	5	1	4	19	16	29	135
>24.00	0	0	0	0	0	0	0	0	0	0	2	0	0	0	11	18	31
TOTAL	394	230	115	107	103	192	397	394	634	374	137	85	146	203	302	420	4241

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4344

TOTAL NUMBER OF VALID OBSERVATIONS: 4241

TOTAL NUMBER OF MISSING OBSERVATIONS: 103

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.6 %

MEAN WIND SPEED FOR THIS PERIOD: 8.4 MPH

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
6.13	5.75	7.83	45.01	22.94	7.45	4.88

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	17	9	0	0	0	0	18	47	86	38	6	0	2	2	10	25	0
B	12	9	8	5	1	18	27	26	32	23	6	3	1	16	25	32	0
C	24	20	7	7	9	29	34	18	41	27	6	9	10	30	31	30	0
D	213	144	66	68	76	123	199	139	180	117	50	43	74	80	127	210	0
E	84	36	30	16	14	21	101	97	179	103	40	16	43	50	62	80	1
F	33	7	1	2	1	1	4	31	72	43	14	8	14	22	32	26	5
G	11	5	3	9	2	0	14	36	44	23	15	6	2	3	15	17	2
TOTAL	394	230	115	107	103	192	397	394	634	374	137	85	146	203	302	420	8

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

January-June 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			HOURS																							
5	1	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	D	D	D	D
5	1	2	D	D	D	D	D	D	D	D	D	C	C	A	B	A	C	D	D	D	D	D	D	D	D	D
5	1	3	D	D	D	D	D	D	D	C	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	4	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	5	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D
5	1	6	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	D	D
5	1	7	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	E	E
5	1	8	E	F	F	E	F	F	F	G	F	F	D	D	B	C	D	D	D	D	D	D	D	D	D	D
5	1	9	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D
5	1	10	D	D	D	D	D	E	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	11	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	12	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	D	C	A
5	1	13	A	A	C	C	D	D	D	D	D	D	D	C	D	C	C	C	D	D	D	D	D	D	D	D
5	1	14	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	E	E	D	D
5	1	15	D	E	D	E	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
5	1	16	E	E	E	F	F	G	G	F	F	E	E	D	D	D	D	D	D	E	F	F	F	F	E	F
5	1	17	F	E	E	D	D	D	D	D	D	D	C	D	C	C	C	C	D	D	D	E	E	E	E	E
5	1	18	E	E	E	E	E	E	D	E	D	D	D	D	D	D	D	D	E	D	D	D	D	E	E	E
5	1	19	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	F	F	F	F
5	1	20	F	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	E	E	E	E	E	D	D	D
5	1	21	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	22	D	D	D	D	D	D	D	D	D	D	B	B	B	B	B	C	D	D	D	D	E	D	E	E
5	1	23	E	E	D	D	D	D	D	D	D	C	C	C	B	C	C	D	D	E	E	E	E	E	E	E
5	1	24	E	E	E	E	E	F	E	E	E	D	D	D	D	D	D	D	D	E	G	G	G	G	G	G
5	1	25	G	G	G	G	G	G	G	G	G	F	E	E	E	E	D	D	E	F	F	E	E	E	E	E
5	1	26	E	E	E	E	E	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	27	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	28	D	D	D	D	D	D	D	D	D	C	C	B	B	C	C	D	D	D	D	D	D	D	D	D
5	1	29	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E	E
5	1	30	E	E	E	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D
5	1	31	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
5	2	1	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
5	2	2	E	E	E	E	E	E	E	E	E	E	C	C	C	C	C	D	D	E	F	G	F	F	F	F
5	2	3	F	E	F	F	F	F	F	F	E	E	D	D	D	D	D	D	D	E	G	G	G	G	G	F
5	2	4	F	F	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	F	G	F	F	E	F	F
5	2	5	F	F	E	E	E	E	E	E	D	D	D	C	C	B	C	D	D	E	E	E	E	D	D	D
5	2	6	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C
5	2	7	D	D	D	D	D	D	D	D	C	C	B	A	A	A	B	B	C	D	D	D	D	D	D	D
5	2	8	E	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D
5	2	9	D	D	D	D	E	E	E	F	E	D	D	D	D	D	D	D	D	E	F	G	G	G	G	G
5	2	10	F	G	G	G	G	G	G	G	G	G	F	D	D	D	D	D	D	E	F	F	F	E	E	F
5	2	11	E	E	F	G	G	G	G	G	G	F	E	E	E	E	E	E	E	E	E	E	E	F	F	F
5	2	12	F	G	G	G	G	G	G	G	G	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E
5	2	13	E	E	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D
5	2	14	D	D	D	D	D	E	E	F	E	D	D	D	C	D	C	D	D	E	E	E	F	F	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	HOURS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	2	15	E	E	E	E	E	E	E	D	D	D	C	C	C	B	A	C	D	D	D	D	D	D	E	E
5	2	16	E	E	E	E	E	E	E	E	D	D	C	C	C	C	C	D	D	D	E	E	E	E	E	F
5	2	17	F	F	E	E	G	G	G	G	F	D	D	D	D	C	D	D	D	D	E	F	G	G	G	G
5	2	18	G	F	D	D	D	E	E	E	D	D	C	C	C	B	C	D	D	D	E	F	F	F	E	E
5	2	19	E	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	2	20	D	D	D	D	D	D	E	E	E	D	C	C	D	D	D	D	D	D	D	D	D	D	D	D
5	2	21	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D
5	2	22	D	D	D	D	D	D	D	D	D	D	C	D	B	C	B	C	D	D	E	F	F	F	E	E
5	2	23	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
5	2	24	E	E	F	F	E	E	E	E	D	D	D	D	C	C	C	C	C	D	E	F	F	F	E	F
5	2	25	E	F	F	F	F	E	E	E	D	D	D	A	A	A	A	B	C	D	E	E	E	E	E	E
5	2	26	D	E	E	E	E	E	E	D	D	D	C	B	C	B	C	D	D	D	D	E	E	E	E	E
5	2	27	E	E	E	E	E	F	F	F	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
5	2	28	E	E	E	E	E	E	E	D	D	B	B	B	B	B	C	C	D	D	D	D	D	D	D	D
5	3	1	E	E	E	E	E	E	D	D	C	C	A	A	B	B	B	C	D	D	F	G	G	G	G	F
5	3	2	G	F	F	F	G	G	G	G	E	D	C	B	B	C	B	D	D	D	E	F	F	F	E	D
5	3	3	E	E	E	E	D	D	D	D	D	C	B	B	C	B	D	C	D	D	F	F	G	F	F	G
5	3	4	G	G	G	G	G	G	G	G	E	D	D	C	B	A	A	B	C	D	E	E	E	F	F	E
5	3	5	E	E	F	F	F	E	E	E	D	C	B	C	B	B	B	C	D	D	F	F	F	G	F	F
5	3	6	F	F	F	G	G	G	G	G	F	D	C	B	A	A	A	C	D	D	E	E	E	D	D	E
5	3	7	E	E	E	E	D	D	D	D	D	B	A	A	A	A	A	A	B	D	D	E	E	E	E	E
5	3	8	F	F	F	F	F	E	E	E	D	D	C	D	D	D	D	D	D	D	D	E	E	E	E	E
5	3	9	E	E	E	D	D	D	D	D	D	C	B	A	A	B	A	B	C	D	E	E	E	D	D	D
5	3	10	E	D	D	D	D	D	E	D	D	C	A	A	B	B	C	C	D	D	D	D	D	D	D	D
5	3	11	D	D	D	D	E	E	E	E	D	D	B	B	B	C	C	D	D	D	E	E	E	E	E	E
5	3	12	F	F	F	G	G	G	F	E	D	D	C	B	A	A	A	C	D	D	D	D	D	E	E	D
5	3	13	D	D	D	D	D	D	D	D	D	C	D	B	B	B	A	C	D	D	D	D	E	E	E	F
5	3	14	G	G	G	G	G	F	G	E	D	D	B	B	C	B	B	D	D	D	E	E	E	E	E	F
5	3	15	F	F	F	G	G	G	G	G	E	D	D	B	A	B	A	C	D	D	D	E	E	E	E	E
5	3	16	E	E	E	E	E	F	F	F	D	D	B	A	A	A	B	B	D	D	E	F	F	E	E	E
5	3	17	E	E	E	E	E	E	E	D	D	B	A	A	A	A	A	C	D	D	E	E	E	E	E	E
5	3	18	E	E	E	E	E	E	D	D	C	D	D	B	A	A	B	C	D	D	D	D	D	D	D	D
5	3	19	D	D	D	D	D	D	D	D	D	C	A	A	A	A	B	C	C	D	D	E	E	E	D	D
5	3	20	D	E	D	D	D	D	D	D	D	C	B	B	B	B	C	B	D	D	D	D	D	D	D	D
5	3	21	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D
5	3	22	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	3	23	D	D	D	D	D	E	E	E	D	D	C	C	C	C	C	C	C	D	D	D	D	E	D	D
5	3	24	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	3	25	D	D	D	D	D	D	D	C	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	3	26	D	D	D	D	D	D	D	D	D	D	B	D	D	B	B	C	D	D	D	E	F	F	G	G
5	3	27	G	G	G	G	G	G	G	F	E	D	C	C	C	C	B	B	D	D	E	G	G	G	G	F
5	3	28	G	G	F	F	F	F	G	E	D	C	B	A	A	A	A	B	C	D	E	E	E	E	E	E
5	3	29	E	E	E	D	E	E	E	D	D	C	A	A	A	-	-	-	-	-	-	-	-	-	-	-
5	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	3	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	HOURS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	A	B	D	D	E	E	E	E	E
5	4	2	G	G	G	G	G	G	G	G	E	B	B	A	A	A	A	A	C	D	E	E	E	E	E	E
5	4	3	F	E	F	F	G	G	G	G	D	D	D	C	C	C	B	C	C	D	E	F	E	E	E	E
5	4	4	E	E	E	E	E	E	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	E	E	E	E	E
5	4	6	D	D	E	E	E	D	D	D	D	E	E	D	D	D	D	D	E	E	E	E	E	E	D	D
5	4	7	D	D	D	D	D	D	D	D	C	C	A	A	A	B	B	B	D	D	D	E	E	E	F	E
5	4	8	E	E	E	F	F	F	G	G	E	D	A	A	A	A	A	B	D	D	D	E	E	E	E	E
5	4	9	E	E	E	E	E	E	E	D	D	B	A	A	A	A	A	B	D	D	D	E	E	E	E	E
5	4	10	E	E	E	E	E	E	E	D	D	D	B	C	C	D	D	D	D	E	D	E	E	E	D	D
5	4	11	D	D	E	D	E	E	E	D	D	D	C	D	B	B	D	D	D	E	D	D	D	D	D	E
5	4	12	D	D	D	D	D	D	D	D	D	D	C	D	C	D	D	D	D	D	D	D	D	D	D	D
5	4	13	D	D	D	D	D	D	D	D	D	B	A	A	A	A	B	B	D	D	D	E	E	E	E	E
5	4	14	F	F	F	F	F	E	E	D	D	C	B	B	A	A	B	B	B	D	D	F	F	F	G	G
5	4	15	F	F	F	G	G	F	E	D	D	B	B	B	B	B	A	C	D	D	E	E	E	E	E	E
5	4	16	F	F	E	E	E	E	E	E	E	D	D	C	D	D	D	D	D	D	E	F	F	F	F	F
5	4	17	F	F	F	G	G	G	F	E	D	D	C	B	B	A	B	C	D	D	D	E	E	E	E	E
5	4	18	E	E	E	E	E	E	D	D	D	C	D	B	A	A	A	B	C	D	D	D	D	D	E	E
5	4	19	E	E	D	E	E	E	D	D	D	D	B	B	B	C	D	C	D	D	E	E	E	D	D	E
5	4	20	E	E	D	D	D	D	D	E	E	D	D	B	C	D	D	C	C	D	D	D	D	D	D	D
5	4	21	D	E	E	E	E	D	E	D	D	D	D	C	B	A	C	D	D	D	D	E	E	E	E	E
5	4	22	D	D	E	D	D	D	D	D	D	D	B	B	B	B	C	D	D	D	D	D	D	D	D	D
5	4	23	D	E	E	E	E	E	D	D	C	B	A	A	A	A	A	A	C	D	D	E	F	F	F	F
5	4	24	F	F	G	F	G	G	E	D	C	C	B	B	B	B	C	D	D	D	D	F	G	G	G	G
5	4	25	F	F	F	F	F	G	E	D	D	D	D	D	D	C	D	D	D	D	D	E	F	G	F	F
5	4	26	E	E	E	E	E	E	D	D	C	C	B	B	B	C	D	D	D	D	D	D	D	D	D	D
5	4	27	E	E	E	E	E	E	E	D	D	C	B	B	B	C	D	D	D	D	D	D	E	E	F	E
5	4	28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D
5	4	29	D	E	D	D	E	D	E	D	D	D	D	C	B	B	B	B	D	D	D	E	F	F	F	F
5	4	30	G	G	G	F	F	E	E	D	D	B	C	B	C	C	B	C	D	D	D	F	G	G	G	E
5	5	1	E	E	E	E	E	E	D	D	C	B	B	A	A	B	B	B	C	D	D	D	E	E	E	F
5	5	2	F	E	E	E	E	E	D	D	B	A	B	A	A	B	A	C	D	D	D	E	G	G	G	G
5	5	3	G	F	E	F	G	E	D	D	C	C	B	C	B	A	C	C	C	D	D	F	F	F	F	F
5	5	4	F	G	G	G	F	F	E	D	C	D	D	C	B	B	B	B	C	D	D	E	E	F	E	F
5	5	5	F	F	F	E	F	F	E	D	C	A	A	A	A	A	A	A	C	D	D	E	E	E	E	E
5	5	6	E	E	E	E	E	E	D	D	C	C	A	B	C	B	C	D	D	D	D	E	E	E	E	E
5	5	7	E	E	D	E	E	E	D	D	C	D	B	B	A	A	B	B	C	C	D	D	D	D	D	D
5	5	8	D	D	D	D	D	D	D	D	C	B	A	A	A	A	B	C	D	C	D	F	E	E	E	E
5	5	9	E	E	E	E	E	E	D	D	D	C	C	D	D	C	D	D	D	D	D	E	F	G	G	G
5	5	10	G	G	G	G	F	F	E	D	C	C	B	A	A	A	B	C	D	D	D	D	D	E	E	E
5	5	11	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D
5	5	12	D	D	D	D	D	D	D	D	D	D	D	C	C	B	D	D	D	D	D	D	D	D	D	D
5	5	13	D	D	E	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F
5	5	14	F	E	E	E	E	E	E	D	D	C	B	B	A	A	B	B	C	D	D	E	E	E	F	F
5	5	15	E	E	E	E	E	E	D	D	C	B	C	B	C	B	C	C	D	D	D	F	F	F	F	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES
HOURS

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	5	16	E	E	E	F	E	E	D	C	B	A	A	A	A	A	A	A	A	C	D	D	E	E	D	D
5	5	17	D	E	D	D	D	D	D	D	C	A	A	A	A	A	B	B	C	D	D	D	D	D	D	D
5	5	18	D	D	D	D	D	D	D	D	D	D	D	C	D	D	B	C	D	D	D	F	F	F	G	G
5	5	19	G	G	G	G	G	G	F	E	D	D	D	C	C	C	D	D	D	E	E	F	F	F	F	F
5	5	20	F	G	G	G	G	G	F	D	D	C	C	C	C	C	C	C	D	D	D	D	D	D	D	D
5	5	21	D	D	D	D	D	D	D	B	A	A	A	A	A	A	A	A	B	C	D	D	D	D	D	E
5	5	22	E	E	E	E	E	E	E	D	D	D	C	C	D	D	D	D	D	E	E	F	G	F	G	G
5	5	23	G	G	G	G	G	G	G	D	C	D	D	C	C	D	D	D	D	D	D	E	E	F	G	G
5	5	24	F	E	E	E	D	D	D	D	C	B	B	B	B	B	A	A	A	B	D	D	D	E	D	D
5	5	25	D	D	D	D	D	D	D	D	C	A	A	A	A	A	B	B	D	D	D	E	E	E	F	F
5	5	26	E	E	E	E	E	E	D	D	D	D	C	B	C	B	C	D	D	D	D	E	D	E	E	E
5	5	27	E	E	E	E	E	G	E	D	C	C	D	D	C	C	C	D	C	D	E	E	F	E	F	F
5	5	28	G	G	G	G	F	F	E	D	C	B	C	B	B	C	D	D	D	D	D	E	E	E	F	F
5	5	29	E	F	G	F	F	E	D	D	D	C	B	B	A	C	D	D	C	D	D	E	E	E	E	E
5	5	30	D	D	E	E	E	E	D	D	D	D	D	C	C	B	B	C	C	D	D	D	E	F	E	E
5	5	31	F	E	E	E	D	D	D	D	D	B	A	A	A	B	B	D	D	D	D	D	E	D	D	D
5	6	1	D	D	D	D	D	D	D	D	D	C	C	B	C	D	C	B	B	C	D	E	E	F	G	F
5	6	2	F	F	F	G	F	F	E	D	D	D	C	D	D	D	C	B	B	C	D	D	E	E	E	E
5	6	3	E	E	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	E	D
5	6	4	D	D	D	D	D	D	D	D	D	D	B	B	A	A	B	D	D	D	E	E	D	D	E	E
5	6	5	E	E	E	E	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	F	G	F	F	F
5	6	6	F	E	E	F	E	F	D	D	B	A	C	A	A	A	A	A	A	B	D	D	D	E	D	E
5	6	7	E	E	E	E	D	D	D	C	A	B	D	A	A	A	A	A	A	B	D	D	D	D	D	D
5	6	8	D	D	E	D	E	D	D	D	D	D	C	C	B	B	B	B	D	E	E	E	E	E	E	F
5	6	9	F	F	E	E	E	E	E	E	D	D	D	D	D	E	D	D	D	C	D	E	E	E	E	E
5	6	10	E	E	E	E	E	D	E	D	D	D	D	C	B	C	D	B	C	D	E	E	E	E	E	E
5	6	11	D	D	D	D	D	D	D	D	D	D	D	C	A	A	B	C	C	D	D	E	E	E	E	E
5	6	12	E	E	E	E	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	E
5	6	13	E	D	D	D	E	E	D	C	B	A	B	A	A	A	D	D	D	D	D	D	D	D	D	D
5	6	14	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	E	F	G	F	F
5	6	15	F	F	F	F	F	E	E	D	C	C	C	C	B	C	C	D	D	D	D	F	G	G	F	E
5	6	16	D	D	D	D	D	D	D	C	B	A	A	A	A	A	A	B	D	D	E	D	D	D	D	D
5	6	17	D	D	D	D	D	D	D	D	C	C	C	C	C	B	C	B	C	C	D	D	F	G	F	F
5	6	18	F	F	F	E	E	E	D	D	A	A	A	A	A	A	A	A	A	B	D	D	E	E	E	E
5	6	19	E	E	E	E	E	E	D	B	A	A	A	A	A	A	A	A	B	B	D	D	E	E	E	E
5	6	20	E	E	E	E	E	E	D	B	A	A	B	B	A	A	A	A	A	B	D	D	E	E	E	E
5	6	21	E	E	E	E	E	E	E	D	D	D	C	C	C	B	D	D	C	C	D	F	E	E	F	F
5	6	22	F	E	F	F	F	E	D	D	C	B	B	B	A	A	A	A	A	C	D	E	E	E	E	E
5	6	23	E	E	E	E	E	E	D	C	B	A	A	A	A	A	A	A	A	B	D	D	E	E	E	E
5	6	24	E	E	E	E	E	E	D	C	A	A	A	A	A	A	A	A	A	C	D	E	E	E	D	E
5	6	25	D	E	E	E	E	E	D	D	D	C	B	D	C	A	B	A	C	D	D	E	E	E	E	E
5	6	26	D	E	E	E	E	E	D	D	B	A	A	A	A	A	A	A	A	C	D	E	E	E	E	E
5	6	27	E	E	E	E	E	D	D	D	B	A	A	A	A	A	A	A	A	C	D	E	E	D	D	E
5	6	28	D	D	D	D	D	D	D	D	B	A	A	A	A	A	A	A	B	C	D	D	D	D	D	E
5	6	29	E	E	E	E	E	D	D	D	D	D	D	A	A	A	A	C	D	E	E	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	HOURS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	6	30	F	F	E	F	E	E	E	D	D	C	C	D	D	D	C	D	D	D	D	D	E	F	F	F

JFDs of 10-Meter Wind vs. Delta T

July-September 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	0	0	0	0	1	0	2	3	1	2	3	0	0	0	13
7.51-12.50	0	0	0	0	0	0	5	22	77	10	0	1	0	0	0	0	115
12.51-18.50	0	0	0	0	0	0	0	16	55	9	0	0	0	0	0	0	80
18.51-24.00	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	0	0	0	0	6	38	139	22	1	3	3	0	0	0	213

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	10	11	2	7	2	4	4	5	15	11	2	1	1	0	0	1	76
7.51-12.50	7	1	0	2	4	6	16	11	13	8	1	0	1	2	0	4	76
12.51-18.50	0	0	0	0	0	0	1	0	12	1	0	0	0	0	2	0	16
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17	12	2	9	6	10	21	16	40	20	3	1	2	2	2	5	168

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	3
3.51- 7.50	8	6	8	8	9	7	12	10	9	10	2	3	0	0	1	0	93
7.51-12.50	3	1	0	2	5	4	14	7	17	11	2	0	1	2	4	2	75
12.51-18.50	0	0	0	0	0	0	1	3	8	0	0	0	0	0	0	1	13
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	7	8	10	14	11	28	20	34	23	4	3	1	2	5	3	184

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	4	3	3	0	6	4	3	7	3	4	3	1	1	1	1	45
3.51- 7.50	15	44	25	33	22	33	41	34	23	16	11	7	4	5	2	5	320
7.51-12.50	29	4	6	4	9	8	36	27	44	12	2	2	0	3	1	18	205
12.51-18.50	2	0	0	0	0	0	4	3	8	0	1	0	0	0	0	6	24
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	47	52	34	40	31	47	85	67	82	31	18	12	5	9	4	31	595

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	16	12	3	6	1	4	6	32	27	16	10	6	12	7	6	11	175
3.51- 7.50	32	13	6	17	8	6	39	56	81	20	4	4	4	1	4	28	323
7.51-12.50	1	0	0	0	1	0	3	27	35	10	4	3	3	0	2	2	91
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	49	25	9	23	10	10	48	115	143	46	18	15	19	8	12	41	592

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	6
1.01- 3.50	17	2	4	1	2	0	3	17	27	22	17	10	7	13	16	17	175
3.51- 7.50	0	0	1	1	0	0	1	8	30	15	2	1	1	1	2	6	69
7.51-12.50	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17	2	5	2	2	0	4	25	57	38	20	11	9	14	18	23	253

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	13
1.01- 3.50	4	1	0	0	0	0	1	10	16	13	12	7	11	6	11	15	107
3.51- 7.50	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	1	0	0	0	0	1	11	16	13	13	7	11	6	11	15	122

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	20
1.01- 3.50	38	19	10	10	3	10	15	62	77	56	43	26	31	27	34	44	505
3.51- 7.50	65	75	42	66	41	50	98	114	160	75	23	18	13	7	9	40	896
7.51-12.50	40	6	6	8	19	18	74	94	186	52	10	6	6	7	7	26	565
12.51-18.50	2	0	0	0	0	0	6	22	83	10	1	2	0	0	2	7	135
18.51-24.00	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	145	100	58	84	63	78	193	292	511	193	77	52	50	41	52	118	2127

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2127

TOTAL NUMBER OF MISSING OBSERVATIONS: 81

PERCENT DATA RECOVERY FOR THIS PERIOD: 96.3 %

MEAN WIND SPEED FOR THIS PERIOD: 6.4 MPH

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
10.01	7.90	8.65	27.97	27.83	11.89	5.74

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	1	0	0	0	0	6	38	139	22	1	3	3	0	0	0	0
B	17	12	2	9	6	10	21	16	40	20	3	1	2	2	2	5	0
C	11	7	8	10	14	11	28	20	34	23	4	3	1	2	5	3	0
D	47	52	34	40	31	47	85	67	82	31	18	12	5	9	4	31	0
E	49	25	9	23	10	10	48	115	143	46	18	15	19	8	12	41	1
F	17	2	5	2	2	0	4	25	57	38	20	11	9	14	18	23	6
G	4	1	0	0	0	0	1	11	16	13	13	7	11	6	11	15	13
TOTAL	145	100	58	84	63	78	193	292	511	193	77	52	50	41	52	118	20

JFDs of 10-Meter Wind vs. Delta T

October-December 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	4	0	0	0	0	0	1	2	3	1	0	1	1	0	0	2	15
12.51-18.50	1	0	0	0	0	0	1	3	23	8	0	0	0	0	2	8	46
18.51-24.00	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	0	0	0	0	0	2	5	31	9	0	1	1	0	2	10	67

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	2	2	1	0	1	4	1	3	1	1	0	3	0	0	0	20
7.51-12.50	7	1	3	0	0	1	3	6	5	9	0	3	3	1	0	7	49
12.51-18.50	0	0	0	0	0	0	1	3	3	3	0	1	1	1	0	6	19
18.51-24.00	0	0	0	0	0	0	0	0	4	0	0	0	0	2	2	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	3	5	1	0	2	8	10	15	13	1	4	7	4	2	13	96

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	3	5	2	2	6	2	2	2	1	5	4	2	2	0	1	0	39
7.51-12.50	3	0	3	1	0	5	16	5	8	9	1	1	4	1	3	8	68
12.51-18.50	0	0	0	0	0	0	1	5	6	3	2	0	2	4	3	2	28
18.51-24.00	0	0	0	0	0	0	1	0	1	0	1	0	0	1	1	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	5	5	3	6	8	20	12	16	17	8	3	8	6	8	10	141

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	3	3	1	0	1	4	7	1	3	3	1	2	1	1	4	37
3.51- 7.50	43	28	23	15	10	11	28	18	12	12	6	12	8	11	26	31	294
7.51-12.50	13	11	6	6	4	13	45	30	43	16	12	8	7	33	49	49	345
12.51-18.50	0	0	0	0	2	3	10	17	36	2	5	3	11	58	49	40	236
18.51-24.00	0	0	0	0	0	0	2	0	3	1	0	1	3	18	24	8	60
>24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	0	6	1	10
TOTAL	58	42	32	22	16	28	89	72	95	34	29	25	31	121	155	133	982

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	18	9	9	2	0	4	4	8	7	5	5	4	8	3	6	6	98
3.51- 7.50	19	3	4	4	2	8	16	24	39	14	13	5	10	19	20	37	237
7.51-12.50	0	0	1	0	2	0	5	16	32	21	6	15	33	20	27	12	190
12.51-18.50	1	0	0	0	0	0	0	4	3	3	9	4	6	11	3	0	44
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	38	12	14	6	4	12	25	52	81	43	33	28	57	53	56	55	569

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	14	5	1	2	3	2	3	10	8	6	7	2	7	8	8	11	97
3.51- 7.50	2	1	1	0	0	0	1	23	20	12	1	2	4	3	6	5	81
7.51-12.50	0	0	0	0	0	0	0	0	3	6	1	0	5	1	1	0	17
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	16	6	2	2	3	2	4	33	31	24	9	4	16	12	15	16	196

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	5
1.01- 3.50	10	7	4	0	2	5	6	45	21	9	6	1	4	5	4	14	143
3.51- 7.50	0	1	0	0	0	0	0	4	3	0	0	0	0	0	0	1	9
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	8	4	0	2	5	6	49	24	9	6	1	4	5	4	15	157

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	6
1.01- 3.50	44	24	17	5	5	13	17	70	37	23	21	8	21	17	19	35	376
3.51- 7.50	69	40	32	22	18	22	51	72	78	44	25	21	27	33	53	74	681
7.51-12.50	27	12	13	7	6	19	70	59	94	62	20	28	53	56	80	78	684
12.51-18.50	2	0	0	0	2	3	13	32	71	19	16	8	20	74	57	56	373
18.51-24.00	0	0	0	0	0	0	3	0	13	1	1	1	3	21	27	8	78
>24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	0	6	1	10
TOTAL	142	76	62	34	31	57	154	233	293	149	86	66	124	201	242	252	2208

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2208

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 8.6 MPH

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
3.03	4.35	6.39	44.47	25.77	8.88	7.11

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	6	0	0	0	0	0	2	5	31	9	0	1	1	0	2	10	0
B	8	3	5	1	0	2	8	10	15	13	1	4	7	4	2	13	0
C	6	5	5	3	6	8	20	12	16	17	8	3	8	6	8	10	0
D	58	42	32	22	16	28	89	72	95	34	29	25	31	121	155	133	0
E	38	12	14	6	4	12	25	52	81	43	33	28	57	53	56	55	0
F	16	6	2	2	3	2	4	33	31	24	9	4	16	12	15	16	1
G	10	8	4	0	2	5	6	49	24	9	6	1	4	5	4	15	5
TOTAL	142	76	62	34	31	57	154	233	293	149	86	66	124	201	242	252	6

JFDs of 10-Meter Wind vs. Delta T

July-December 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	1	0	0	0	0	1	0	2	3	1	2	3	0	0	0	14
7.51-12.50	4	0	0	0	0	0	6	24	80	11	0	2	1	0	0	2	130
12.51-18.50	1	0	0	0	0	0	1	19	78	17	0	0	0	0	2	8	126
18.51-24.00	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	1	0	0	0	0	8	43	170	31	1	4	4	0	2	10	280

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	11	13	4	8	2	5	8	6	18	12	3	1	4	0	0	1	96
7.51-12.50	14	2	3	2	4	7	19	17	18	17	1	3	4	3	0	11	125
12.51-18.50	0	0	0	0	0	0	2	3	15	4	0	1	1	1	2	6	35
18.51-24.00	0	0	0	0	0	0	0	0	4	0	0	0	0	2	2	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	25	15	7	10	6	12	29	26	55	33	4	5	9	6	4	18	264

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	4
3.51- 7.50	11	11	10	10	15	9	14	12	10	15	6	5	2	0	2	0	132
7.51-12.50	6	1	3	3	5	9	30	12	25	20	3	1	5	3	7	10	143
12.51-18.50	0	0	0	0	0	0	2	8	14	3	2	0	2	4	3	3	41
18.51-24.00	0	0	0	0	0	0	1	0	1	0	1	0	0	1	1	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17	12	13	13	20	19	48	32	50	40	12	6	9	8	13	13	325

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	3	7	6	4	0	7	8	10	8	6	7	4	3	2	2	5	82
3.51- 7.50	58	72	48	48	32	44	69	52	35	28	17	19	12	16	28	36	614
7.51-12.50	42	15	12	10	13	21	81	57	87	28	14	10	7	36	50	67	550
12.51-18.50	2	0	0	0	2	3	14	20	44	2	6	3	11	58	49	46	260
18.51-24.00	0	0	0	0	0	0	2	0	3	1	0	1	3	18	24	9	61
>24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	0	6	1	10
TOTAL	105	94	66	62	47	75	174	139	177	65	47	37	36	130	159	164	1577

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	34	21	12	8	1	8	10	40	34	21	15	10	20	10	12	17	273
3.51- 7.50	51	16	10	21	10	14	55	80	120	34	17	9	14	20	24	65	560
7.51-12.50	1	0	1	0	3	0	8	43	67	31	10	18	36	20	29	14	281
12.51-18.50	1	0	0	0	0	0	0	4	3	3	9	6	6	11	3	0	46
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	87	37	23	29	14	22	73	167	224	89	51	43	76	61	68	96	1161

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	7
1.01- 3.50	31	7	5	3	5	2	6	27	35	28	24	12	14	21	24	28	272
3.51- 7.50	2	1	2	1	0	0	2	31	50	27	3	3	5	4	8	11	150
7.51-12.50	0	0	0	0	0	0	0	0	3	7	2	0	6	1	1	0	20
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	33	8	7	4	5	2	8	58	88	62	29	15	25	26	33	39	449

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	18
1.01- 3.50	14	8	4	0	2	5	7	55	37	22	18	8	15	11	15	29	250
3.51- 7.50	0	1	0	0	0	0	0	5	3	0	1	0	0	0	0	1	11
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	14	9	4	0	2	5	7	60	40	22	19	8	15	11	15	30	279

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	26
1.01- 3.50	82	43	27	15	8	23	32	132	114	79	64	34	52	44	53	79	881
3.51- 7.50	134	115	74	88	59	72	149	186	238	119	48	39	40	40	62	114	1577
7.51-12.50	67	18	19	15	25	37	144	153	280	114	30	34	59	63	87	104	1249
12.51-18.50	4	0	0	0	2	3	19	54	154	29	17	10	20	74	59	63	508
18.51-24.00	0	0	0	0	0	0	3	0	18	1	1	1	3	21	27	9	84
>24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	0	6	1	10
TOTAL	287	176	120	118	94	135	347	525	804	342	163	118	174	242	294	370	4335

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4335

TOTAL NUMBER OF MISSING OBSERVATIONS: 81

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.2 %

MEAN WIND SPEED FOR THIS PERIOD: 7.5 MPH

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
6.46	6.09	7.50	36.38	26.78	10.36	6.44

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	6	1	0	0	0	0	8	43	170	31	1	4	4	0	2	10	0
B	25	15	7	10	6	12	29	26	55	33	4	5	9	6	4	18	0
C	17	12	13	13	20	19	48	32	50	40	12	6	9	8	13	13	0
D	105	94	66	62	47	75	174	139	177	65	47	37	36	130	159	164	0
E	87	37	23	29	14	22	73	167	224	89	51	43	76	61	68	96	1
F	33	8	7	4	5	2	8	58	88	62	29	15	25	26	33	39	7
G	14	9	4	0	2	5	7	60	40	22	19	8	15	11	15	30	18
TOTAL	287	176	120	118	94	135	347	525	804	342	163	118	174	242	294	370	26

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

July-December 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES
HOURS

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	7	1	G	G	G	G	F	F	D	D	D	B	C	C	B	B	B	B	C	D	D	E	E	E	F	E
5	7	2	E	E	E	E	E	E	E	D	A	A	A	A	A	A	A	A	A	A	D	D	E	E	E	D
5	7	3	E	D	D	D	D	D	D	D	D	C	B	B	D	D	E	E	D	D	E	E	F	F	E	E
5	7	4	D	D	E	E	E	F	E	D	C	D	D	C	A	B	B	B	C	D	E	F	G	G	G	G
5	7	5	G	G	G	G	G	G	F	D	D	D	B	C	B	B	C	C	D	D	D	E	F	F	F	F
5	7	6	F	G	G	G	G	F	E	D	D	C	C	B	A	A	A	A	A	A	D	E	F	F	G	F
5	7	7	G	G	F	F	E	F	E	B	A	A	A	A	A	A	A	A	A	B	D	D	E	E	F	F
5	7	8	E	E	E	E	E	E	D	B	A	A	A	A	A	A	A	A	A	A	D	E	E	E	E	E
5	7	9	E	E	E	E	E	D	D	D	C	A	A	A	A	A	A	A	A	B	D	E	F	F	E	E
5	7	10	E	E	F	F	F	F	E	D	B	A	A	A	A	A	A	A	A	C	D	D	E	E	E	E
5	7	11	F	E	F	E	E	E	E	D	D	D	C	C	C	B	C	C	D	D	E	E	F	E	E	E
5	7	12	E	E	F	F	F	F	E	D	D	D	C	D	B	B	B	D	F	D	D	D	E	E	F	E
5	7	13	E	E	F	E	E	F	E	D	C	C	B	B	B	B	B	B	D	D	E	E	E	E	E	E
5	7	14	F	G	G	G	F	F	E	D	D	C	C	B	B	B	B	D	D	D	E	F	G	F	F	F
5	7	15	F	F	G	G	G	F	E	D	D	D	D	C	B	B	C	D	D	C	D	F	G	G	G	G
5	7	16	G	G	G	G	G	F	F	D	D	B	A	A	A	A	A	A	A	A	D	E	F	E	E	E
5	7	17	E	E	E	F	F	E	E	C	A	A	A	A	A	A	A	A	A	B	D	D	D	D	E	D
5	7	18	D	D	D	D	D	D	D	D	D	C	C	C	C	B	C	C	D	D	E	F	G	G	G	G
5	7	19	G	F	F	F	F	F	E	D	A	A	A	A	A	A	A	A	A	A	C	D	D	D	D	D
5	7	20	D	D	E	E	E	E	D	D	C	A	A	A	A	A	A	A	B	C	D	E	E	E	E	E
5	7	21	E	E	E	E	E	D	D	D	D	B	C	C	D	D	D	D	D	D	E	F	F	E	E	E
5	7	22	E	E	D	D	D	E	D	D	C	B	D	A	A	A	A	A	A	B	D	E	E	E	E	E
5	7	23	E	F	E	E	F	F	E	D	D	C	B	A	A	C	D	C	B	C	D	E	E	E	E	E
5	7	24	E	F	E	E	E	E	E	D	C	B	C	A	B	A	A	A	A	B	D	E	E	E	E	E
5	7	25	E	E	E	E	E	E	D	C	A	A	A	A	A	A	A	B	B	D	D	D	D	D	D	D
5	7	26	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
5	7	27	E	E	E	E	E	E	D	D	C	B	B	B	B	B	C	C	D	D	D	F	G	G	G	G
5	7	28	G	G	G	G	G	G	F	D	C	B	B	B	A	A	A	A	B	B	D	E	F	F	F	F
5	7	29	F	E	E	F	E	F	E	D	D	C	B	A	D	A	B	D	C	C	D	F	F	F	F	F
5	7	30	F	F	F	E	E	F	E	E	D	B	B	A	A	A	A	A	B	D	E	E	E	E	E	F
5	7	31	F	E	E	E	E	E	E	D	D	D	C	A	C	D	B	A	B	D	D	E	E	F	F	F
5	8	1	F	F	F	E	E	E	E	D	D	C	B	C	A	D	D	E	D	D	D	E	E	E	E	E
5	8	2	E	E	E	E	F	F	E	D	D	D	C	B	C	A	D	D	D	E	E	E	E	E	E	E
5	8	3	E	F	F	E	F	F	E	E	D	D	B	C	D	B	D	D	E	E	E	F	F	F	F	F
5	8	4	F	F	G	F	E	D	D	D	D	C	B	B	C	D	D	D	D	D	E	E	E	E	F	E
5	8	5	E	F	E	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	E	F	G	G	G	F
5	8	6	G	G	G	G	G	G	F	E	E	C	C	B	C	B	D	B	D	D	E	E	F	F	F	F
5	8	7	F	E	F	G	G	F	F	D	D	D	C	B	B	B	B	B	C	C	D	E	F	F	F	F
5	8	8	F	F	F	F	E	E	F	E	E	D	D	D	D	C	C	B	C	C	E	E	E	F	E	E
5	8	9	E	E	E	F	F	F	F	E	D	D	D	C	D	B	C	D	B	D	E	F	F	F	F	F
5	8	10	E	F	G	F	F	E	E	E	C	D	D	D	D	D	D	D	D	E	E	E	E	D	D	D
5	8	11	D	D	D	E	E	E	E	D	D	C	B	D	D	D	D	E	E	D	E	E	E	D	E	E
5	8	12	E	E	E	E	E	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	8	13	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	HOURS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	8	14	E	E	E	E	E	E	D	D	C	D	C	B	C	B	C	C	D	D	D	E	E	E	E	E
5	8	15	E	E	E	E	E	E	E	D	D	D	C	C	C	C	C	C	D	D	D	F	F	F	F	F
5	8	16	F	E	E	F	F	F	F	E	E	D	C	C	B	B	C	B	B	D	E	F	G	F	F	F
5	8	17	F	E	F	F	E	E	E	D	D	B	B	A	A	C	C	C	C	D	D	D	D	E	E	E
5	8	18	E	E	E	E	E	E	F	E	D	C	C	C	D	C	D	D	D	E	E	E	D	D	E	D
5	8	19	D	D	D	E	E	E	E	D	C	B	B	C	D	D	E	D	E	D	E	E	E	E	F	E
5	8	20	E	E	E	E	E	E	E	D	D	D	D	D	D	D	C	D	D	D	E	F	G	F	F	E
5	8	21	E	E	E	E	E	F	F	D	D	D	C	C	D	D	D	B	B	D	E	F	F	F	F	E
5	8	22	E	E	D	D	D	D	D	D	D	D	B	C	B	C	D	C	D	D	D	D	D	D	D	E
5	8	23	D	D	D	D	D	D	D	D	D	C	C	B	B	C	B	C	C	D	D	D	D	D	D	D
5	8	24	D	D	D	D	D	D	D	D	D	C	C	C	B	B	B	C	D	D	D	D	D	E	D	D
5	8	25	D	D	D	D	D	D	D	D	C	A	A	A	A	A	A	A	B	B	D	D	D	D	D	D
5	8	26	D	D	D	D	E	E	D	D	D	D	D	B	A	A	C	C	D	D	F	E	E	E	E	E
5	8	27	E	E	F	G	G	G	G	E	D	B	A	A	A	A	A	C	D	D	E	G	F	F	G	F
5	8	28	F	G	F	F	E	F	F	E	D	D	D	D	C	B	B	C	D	E	E	F	E	F	F	G
5	8	29	G	G	E	F	G	F	F	D	D	C	C	B	C	B	C	C	D	D	E	G	G	G	G	G
5	8	30	G	G	G	G	G	G	G	E	E	D	C	D	B	D	C	C	C	E	G	G	G	G	F	E
5	8	31	E	E	E	E	E	E	E	D	B	A	A	B	B	B	B	B	D	D	F	F	F	F	G	G
5	9	1	G	F	G	G	G	G	G	E	D	D	C	B	B	B	B	C	D	D	F	G	G	G	G	G
5	9	2	G	F	G	F	E	E	F	E	D	D	D	D	D	C	B	B	B	C	E	F	F	G	G	F
5	9	3	F	F	F	F	E	E	E	E	E	D	B	A	A	A	A	A	A	C	E	E	E	E	E	D
5	9	4	E	E	E	E	F	E	F	D	C	B	B	A	A	A	A	A	A	C	D	E	E	E	E	E
5	9	5	E	E	E	E	E	E	E	D	C	C	A	A	A	A	A	A	B	D	E	E	E	E	E	E
5	9	6	E	E	E	E	E	E	E	E	D	C	B	A	A	A	B	C	C	E	F	G	F	E	F	F
5	9	7	E	E	E	E	E	E	E	E	D	D	C	C	C	B	A	B	B	D	D	E	E	E	E	F
5	9	8	F	F	F	E	F	E	E	E	D	D	B	A	A	A	D	D	C	D	D	E	E	E	F	F
5	9	9	F	F	F	F	F	F	F	E	D	C	A	A	A	A	A	A	C	D	E	E	E	E	E	E
5	9	10	E	E	E	E	E	E	E	D	C	B	A	A	A	A	A	A	C	D	E	E	E	E	E	E
5	9	11	E	E	E	F	E	E	E	D	C	A	A	A	A	B	B	B	C	D	E	E	E	E	D	D
5	9	12	D	D	D	D	D	D	D	D	D	B	C	A	A	A	A	A	B	D	D	D	D	D	E	E
5	9	13	E	E	D	E	F	F	E	D	D	D	C	D	B	B	B	C	D	D	D	E	E	E	E	E
5	9	14	E	E	E	E	E	E	F	E	D	C	B	B	B	B	B	B	D	D	E	E	E	E	E	D
5	9	15	D	E	E	E	D	E	D	E	E	E	E	D	D	D	C	D	D	D	D	E	E	D	E	E
5	9	16	F	G	G	G	F	E	E	D	E	E	A	B	C	C	C	B	C	D	E	F	E	E	E	F
5	9	17	F	F	F	E	E	E	E	D	C	A	A	A	A	A	C	C	D	D	D	D	D	D	E	E
5	9	18	E	E	E	E	E	E	E	D	D	C	B	A	B	C	D	D	D	D	D	D	D	D	D	F
5	9	19	E	E	E	E	E	E	E	D	C	D	C	B	B	C	D	C	D	D	E	F	F	E	F	F
5	9	20	F	G	G	G	G	G	G	G	D	B	A	A	B	A	B	B	C	D	E	F	E	F	F	F
5	9	21	F	F	F	F	F	E	E	D	C	A	A	A	A	A	A	A	C	D	D	E	E	E	E	E
5	9	22	E	E	F	F	E	E	D	D	D	B	B	B	C	B	D	D	D	D	D	D	E	E	D	E
5	9	23	E	E	E	E	E	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D
5	9	24	D	D	D	D	D	D	D	D	B	C	A	A	A	A	A	A	C	D	D	D	D	E	E	E
5	9	25	E	E	E	E	E	E	E	D	D	C	D	C	C	D	D	D	D	D	D	D	D	D	D	D
5	9	26	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			HOURS																							
5	9	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E	E	E	F	F	E	E
5	9	30	E	E	E	E	E	E	E	D	C	B	A	A	A	A	A	C	D	D	E	E	E	E	E	E
5	10	1	E	E	E	E	E	F	E	E	D	D	B	A	A	A	C	D	D	D	D	D	D	D	D	D
5	10	2	D	D	D	D	D	D	D	D	D	D	C	A	A	A	B	C	D	D	D	D	D	D	E	E
5	10	3	E	E	D	D	D	D	D	D	D	D	D	C	B	C	A	A	D	D	D	D	D	D	D	E
5	10	4	E	D	D	D	D	D	D	D	D	A	A	A	A	A	A	B	D	D	D	D	D	D	D	D
5	10	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	D
5	10	6	E	E	D	E	E	E	D	D	C	B	A	A	A	A	A	B	C	E	E	E	E	E	E	E
5	10	7	E	E	E	E	E	E	E	D	C	C	B	C	B	B	B	D	D	D	F	F	F	F	F	F
5	10	8	D	D	E	E	D	E	D	D	D	D	C	B	B	B	B	C	D	D	E	E	E	E	E	E
5	10	9	E	E	F	E	E	E	E	E	D	C	C	C	C	B	C	C	D	D	E	F	G	F	E	E
5	10	10	E	E	E	E	F	F	E	D	D	D	D	B	C	B	C	C	D	E	E	F	F	E	E	E
5	10	11	E	D	E	E	E	E	E	E	D	D	D	D	C	A	B	C	D	D	D	D	D	D	D	D
5	10	12	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	F	G	G	G	G
5	10	13	G	F	G	G	G	G	G	G	E	D	B	A	A	B	B	C	D	F	G	G	G	G	G	G
5	10	14	G	G	G	F	E	F	E	E	D	C	B	B	B	C	B	C	D	G	G	G	G	F	E	E
5	10	15	E	E	G	G	G	G	G	G	E	D	C	B	C	C	C	D	D	E	F	G	G	F	F	G
5	10	16	G	F	F	F	F	F	E	E	D	D	C	A	C	B	D	D	D	D	E	E	E	E	E	E
5	10	17	E	E	E	E	F	F	F	F	D	C	B	A	B	B	B	C	D	E	F	F	G	G	G	G
5	10	18	G	G	G	G	G	G	G	G	D	C	A	A	A	A	A	C	D	E	F	F	F	F	F	E
5	10	19	E	D	D	D	D	D	D	D	D	C	C	B	D	D	E	D	D	D	D	D	D	D	D	E
5	10	20	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	10	21	D	D	D	E	E	E	E	D	D	D	D	D	C	D	D	D	D	E	G	G	E	E	E	E
5	10	22	E	E	E	E	E	F	F	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
5	10	23	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
5	10	24	E	D	E	E	E	E	E	E	D	D	C	A	B	B	C	C	D	E	F	F	G	G	G	G
5	10	25	G	G	G	G	G	G	G	F	E	D	C	C	C	B	D	D	D	E	F	F	F	G	F	F
5	10	26	F	F	F	F	F	F	F	F	D	D	B	B	A	B	B	C	D	E	E	E	E	E	E	E
5	10	27	E	E	F	F	G	G	G	G	E	E	D	C	B	C	C	C	D	E	F	G	G	G	G	G
5	10	28	G	G	G	G	G	G	F	F	E	C	B	A	A	A	B	C	D	E	E	E	E	E	E	E
5	10	29	E	E	E	D	D	D	D	D	D	C	B	A	A	A	B	D	D	E	E	E	E	D	D	D
5	10	30	D	D	D	E	E	E	E	E	D	D	D	C	B	B	B	D	D	E	G	G	G	G	G	G
5	10	31	E	E	D	D	D	D	D	D	D	D	C	B	A	A	B	D	D	E	F	F	F	F	G	G
5	11	1	G	G	G	G	F	F	F	F	E	D	C	B	B	C	B	D	D	E	F	G	G	G	G	G
5	11	2	G	G	G	G	G	G	F	E	E	D	C	B	A	A	C	D	E	E	F	F	F	E	F	E
5	11	3	E	F	F	F	F	E	F	F	D	C	B	A	A	A	C	D	D	E	E	E	D	D	E	F
5	11	4	F	F	F	F	F	G	G	G	E	D	C	B	B	C	D	D	D	E	E	E	E	F	E	F
5	11	5	E	E	F	F	E	E	E	D	D	D	D	D	D	B	D	D	D	D	D	D	D	D	D	D
5	11	6	E	E	E	E	E	D	E	E	D	D	C	C	B	B	B	C	D	E	E	E	E	E	E	E
5	11	7	E	E	E	E	E	E	E	E	D	D	B	B	C	D	C	D	D	F	G	G	G	G	G	G
5	11	8	G	G	G	G	F	F	F	F	E	D	D	C	C	C	B	D	E	F	F	G	G	G	F	D
5	11	9	D	D	D	D	D	E	D	D	D	D	A	A	A	B	C	D	D	E	E	F	F	F	E	F
5	11	10	G	G	G	G	G	G	G	F	F	D	B	A	A	A	C	D	E	E	F	F	F	F	F	F
5	11	11	E	F	F	E	E	E	E	F	E	D	B	A	A	A	B	D	D	E	E	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			HOURS																							
5	11	12	E	E	E	E	D	D	D	D	D	D	D	D	B	D	D	D	D	D	D	D	D	E	D	D
5	11	13	D	D	E	E	E	E	E	E	D	D	B	B	A	B	C	D	D	E	G	G	G	G	G	G
5	11	14	F	E	E	E	F	E	D	D	D	D	D	D	D	C	B	C	D	D	D	D	D	D	D	D
5	11	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	11	16	D	D	D	D	D	D	D	D	D	D	C	B	B	C	C	D	D	E	E	F	F	F	F	G
5	11	17	F	E	E	E	D	D	D	D	D	C	C	B	A	B	C	C	D	E	E	E	E	E	E	D
5	11	18	E	D	E	F	F	E	F	E	E	D	D	D	C	C	D	D	E	E	E	E	F	F	E	E
5	11	19	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
5	11	20	E	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	E	E
5	11	21	E	E	E	E	E	E	F	E	E	D	D	B	B	B	B	D	D	E	E	E	E	E	E	E
5	11	22	E	E	E	D	D	E	E	E	D	D	C	C	C	C	D	D	D	E	E	E	E	E	E	E
5	11	23	E	E	E	E	E	E	E	E	E	D	D	D	D	C	D	D	D	E	E	E	E	F	E	E
5	11	24	E	F	F	E	E	D	D	D	D	B	A	A	A	A	B	C	D	D	D	D	D	D	D	D
5	11	25	D	D	D	D	D	D	D	D	D	C	A	A	A	A	C	D	E	F	E	F	E	E	E	E
5	11	26	E	E	F	F	G	G	G	G	E	D	C	A	A	B	C	D	E	E	E	E	E	E	E	E
5	11	27	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
5	11	28	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	11	29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D
5	11	30	D	D	E	F	F	F	E	E	D	C	C	C	C	C	D	D	D	D	D	D	D	D	D	D
5	12	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	2	D	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D	D
5	12	3	D	D	E	D	E	E	E	D	D	D	C	D	C	C	D	D	D	D	D	D	D	D	D	D
5	12	4	E	D	E	D	D	D	D	D	D	D	D	C	C	D	C	D	D	D	D	E	D	D	D	D
5	12	5	D	D	E	E	E	E	E	E	E	E	D	D	C	D	D	D	D	D	D	D	D	D	D	D
5	12	6	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	12	7	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	8	D	D	D	E	E	E	F	F	F	E	D	D	D	D	D	D	D	E	E	E	E	F	F	E
5	12	9	E	F	F	F	F	G	G	F	F	F	E	D	D	D	D	E	E	E	E	E	E	E	E	E
5	12	10	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E
5	12	11	E	E	E	D	D	D	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
5	12	12	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	F	G	G	G	G	G	G
5	12	13	G	G	F	G	G	G	G	G	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	14	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	12	15	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
5	12	16	D	D	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	E	E	E	E	E	F	F
5	12	17	F	E	E	D	D	D	D	D	D	D	C	D	C	D	D	D	D	D	D	D	D	D	D	D
5	12	18	D	D	D	D	D	D	D	D	D	D	B	A	C	C	C	D	D	D	E	E	E	E	E	E
5	12	19	E	E	E	E	E	E	F	E	E	D	D	C	C	C	C	C	D	D	D	D	D	D	D	D
5	12	20	D	D	D	D	D	E	E	E	E	D	D	D	C	C	C	D	D	E	E	E	E	E	E	E
5	12	21	E	E	D	E	E	E	E	E	E	D	C	B	B	B	B	C	D	E	E	E	E	E	F	F
5	12	22	F	F	F	F	F	F	F	F	F	E	D	C	C	B	D	D	D	E	E	E	E	D	E	E
5	12	23	E	E	E	F	E	E	E	F	E	E	D	D	D	D	D	D	E	F	F	F	F	F	D	D
5	12	24	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	E	D
5	12	25	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	26	D	D	D	D	D	D	D	D	D	D	D	D	B	B	C	D	E	F	F	F	F	F	G	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

	HOURS																							
YR MN DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5 12 27	G	G	G	G	G	F	G	G	F	E	D	D	C	B	B	D	D	D	D	D	D	D	D	D
5 12 28	D	D	D	D	E	D	D	D	D	D	D	D	D	D	C	D	D	E	F	E	E	E	D	D
5 12 29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	B	C	B	A	B	D	D	D	E	E
5 12 30	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	F	E
5 12 31	E	E	E	F	F	E	F	F	F	E	D	D	C	C	C	D	D	E	E	E	E	E	E	E

JFDs of 10-Meter Wind vs. Delta T

January-December 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	1	0	0	0	0	1	1	4	3	1	2	3	0	0	0	17
7.51-12.50	18	9	0	0	0	0	18	53	99	24	1	2	1	1	0	7	233
12.51-18.50	4	0	0	0	0	0	7	33	131	37	2	0	2	1	8	20	245
18.51-24.00	0	0	0	0	0	0	0	3	22	5	2	0	0	0	2	4	38
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	4	7
TOTAL	23	10	0	0	0	0	26	90	256	69	7	4	6	2	12	35	540

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	14	16	8	13	3	8	9	12	21	16	3	4	5	2	3	6	143
7.51-12.50	23	7	6	2	4	22	38	31	31	29	3	3	4	5	4	19	231
12.51-18.50	0	1	1	0	0	0	9	8	23	10	3	1	1	8	12	9	86
18.51-24.00	0	0	0	0	0	0	0	1	12	1	0	0	0	7	7	14	42
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	2	6
TOTAL	37	24	15	15	7	30	56	52	87	56	10	8	10	22	29	50	508

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS

WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	1	0	0	3	2	1	1	2	0	0	0	0	0	0	10
3.51- 7.50	17	25	16	13	22	17	24	19	18	18	9	8	3	5	6	2	222
7.51-12.50	24	6	3	6	6	25	49	18	38	33	5	2	7	13	20	27	282
12.51-18.50	0	1	0	1	1	2	6	10	27	10	3	4	8	13	10	12	108
18.51-24.00	0	0	0	0	0	1	1	2	7	4	1	1	1	7	5	1	31
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4
TOTAL	41	32	20	20	29	48	82	50	91	67	18	15	19	38	44	43	657

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	9	17	14	11	4	16	24	16	28	20	15	11	7	6	3	12	213
3.51- 7.50	174	165	82	86	73	88	133	96	82	64	24	33	34	34	45	81	1294
7.51-12.50	129	56	35	30	34	66	187	112	155	70	31	18	31	58	107	147	1266
12.51-18.50	6	0	1	3	10	24	27	49	86	23	21	17	32	86	93	103	581
18.51-24.00	0	0	0	0	2	4	2	5	6	5	3	1	6	26	29	19	108
>24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	0	9	12	24
TOTAL	318	238	132	130	123	198	373	278	357	182	97	80	110	210	286	374	3486

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	66	36	22	11	6	15	20	57	55	37	25	14	31	20	25	30	470
3.51- 7.50	92	34	28	33	18	26	111	127	184	84	27	15	26	30	41	97	973
7.51-12.50	11	3	3	1	4	2	42	73	152	61	29	22	54	50	56	45	608
12.51-18.50	2	0	0	0	0	0	1	7	12	10	10	8	8	11	8	4	81
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	171	73	53	45	28	43	174	264	403	192	91	59	119	111	130	176	2134

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	12
1.01- 3.50	52	14	6	4	6	2	9	48	69	39	35	17	24	27	41	47	440
3.51- 7.50	14	1	2	2	0	1	3	41	86	57	5	3	8	15	22	18	278
7.51-12.50	0	0	0	0	0	0	0	0	5	9	3	3	7	6	2	0	35
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	66	15	8	6	6	3	12	89	160	105	43	23	39	48	65	65	765

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	20
1.01- 3.50	25	13	7	9	4	5	21	85	76	40	31	13	16	13	29	44	431
3.51- 7.50	0	1	0	0	0	0	0	11	8	5	3	0	0	1	1	3	33
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	25	14	7	9	4	5	21	96	84	45	34	14	17	14	30	47	486

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	34
1.01- 3.50	152	80	50	35	20	41	76	207	229	138	106	55	78	66	98	133	1564
3.51- 7.50	312	243	136	147	116	140	281	307	403	247	72	65	79	87	118	207	2960
7.51-12.50	205	81	47	39	48	115	334	287	480	226	72	51	105	133	189	245	2657
12.51-18.50	12	2	2	4	11	26	50	107	279	90	39	30	51	119	131	148	1101
18.51-24.00	0	0	0	0	2	5	3	11	47	15	6	2	7	40	43	38	219
>24.00	0	0	0	0	0	0	0	0	0	0	5	0	0	0	17	19	41
TOTAL	681	406	235	225	197	327	744	919	1438	716	300	203	320	445	596	790	8576

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 8576

TOTAL NUMBER OF MISSING OBSERVATIONS: 184

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.9 %

MEAN WIND SPEED FOR THIS PERIOD: 7.9 MPH

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
6.30	5.92	7.66	40.65	24.88	8.92	5.67

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	23	10	0	0	0	0	26	90	256	69	7	4	6	2	12	35	0
B	37	24	15	15	7	30	56	52	87	56	10	8	10	22	29	50	0
C	41	32	20	20	29	48	82	50	91	67	18	15	19	38	44	43	0
D	318	238	132	130	123	198	373	278	357	182	97	80	110	210	286	374	0
E	171	73	53	45	28	43	174	264	403	192	91	59	119	111	130	176	2
F	66	15	8	6	6	3	12	89	160	105	43	23	39	48	65	65	12
G	25	14	7	9	4	5	21	96	84	45	34	14	17	14	30	47	20
TOTAL	681	406	235	225	197	327	744	919	1438	716	300	203	320	445	596	790	34

JFDs of 100-Meter Wind vs. Delta T

January-March 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	1	3	0	0	0	0	0	0	0	2	0	0	0	0	0	2	8
18.51-24.00	1	0	0	0	0	0	0	0	1	4	0	0	1	0	0	0	7
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
TOTAL	2	3	0	0	0	0	0	0	1	6	0	0	1	0	0	6	19

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	10	0	0	0	0	2	0	2	1	4	1	0	0	2	0	7	29
12.51-18.50	4	0	1	0	0	3	1	0	0	5	4	0	0	0	0	2	20
18.51-24.00	1	0	0	0	0	0	0	0	1	1	0	0	1	2	2	0	8
>24.00	0	0	0	0	0	0	0	0	0	1	3	0	0	1	7	3	15
TOTAL	16	0	1	0	0	5	1	2	2	11	8	0	1	5	9	12	73

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	3	3	3	4	3	9	7	6	8	11	3	1	4	3	1	4	73
3.51- 7.50	21	29	12	12	12	18	12	8	12	19	4	7	6	14	12	12	210
7.51-12.50	86	55	21	6	7	24	27	28	12	19	8	8	4	10	13	27	355
12.51-18.50	80	24	6	7	5	25	32	26	18	16	5	0	7	10	24	45	330
18.51-24.00	30	12	2	2	3	11	11	5	17	9	4	1	3	15	28	28	181
>24.00	4	0	0	0	4	15	0	2	7	1	3	0	1	7	22	22	88
TOTAL	224	123	44	31	34	102	89	75	74	75	27	17	25	59	100	138	1239

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	1	0	1	0	3	6	3	0	3	2	0	1	0	1	0	21
3.51- 7.50	4	4	10	9	5	11	14	8	6	7	3	3	2	4	2	3	95
7.51-12.50	16	9	6	3	6	5	3	17	9	14	7	6	2	8	9	13	133
12.51-18.50	5	6	3	1	2	4	16	19	12	17	10	6	7	3	21	24	156
18.51-24.00	4	3	0	0	0	0	12	8	20	0	7	3	2	10	15	13	97
>24.00	2	0	0	0	0	0	1	2	6	0	0	3	1	4	2	0	21
TOTAL	31	23	19	14	13	23	52	57	53	41	29	21	15	29	50	53	523

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	4
3.51- 7.50	0	0	2	1	0	2	3	2	1	3	2	0	4	2	4	1	27
7.51-12.50	3	0	0	1	0	1	6	3	6	14	8	2	2	3	6	5	60
12.51-18.50	2	0	0	0	2	0	2	1	13	2	13	2	0	1	1	5	44
18.51-24.00	0	0	0	0	0	0	0	0	2	0	8	3	1	0	3	0	17
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2
TOTAL	6	0	2	2	3	3	11	6	22	19	32	9	7	6	15	11	154

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	1	0	0	0	0	0	1	1	0	1	2	0	1	0	0	8
3.51- 7.50	1	0	0	1	0	1	0	0	2	3	4	1	1	2	5	5	26
7.51-12.50	2	1	0	1	0	0	0	2	3	4	4	4	2	7	2	1	33
12.51-18.50	0	0	0	0	0	0	0	1	0	0	7	4	3	2	1	0	18
18.51-24.00	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
TOTAL	4	2	0	2	0	1	0	4	6	7	21	13	6	12	8	6	92

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	5	5	3	5	4	12	13	10	9	14	6	5	5	4	2	4	106
3.51- 7.50	27	33	24	23	17	32	29	18	21	32	13	11	13	22	23	21	359
7.51-12.50	117	65	27	11	13	32	36	52	31	55	28	20	10	30	30	53	610
12.51-18.50	92	33	10	8	9	32	51	47	43	42	39	12	17	16	47	78	576
18.51-24.00	37	15	2	2	3	11	23	13	41	14	22	9	8	27	48	41	316
>24.00	6	0	0	0	4	15	1	4	13	2	9	3	2	12	32	29	132
TOTAL	284	151	66	49	50	134	153	144	158	159	117	60	55	111	182	226	2101

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 3/31/ 5

*** JAN-MAR 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2101

TOTAL NUMBER OF MISSING OBSERVATIONS: 59

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.3 %

MEAN WIND SPEED FOR THIS PERIOD: 13.1 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.05	.90	3.47	58.97	24.89	7.33	4.38

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	2	3	0	0	0	0	0	0	1	6	0	0	1	0	0	6	0
C	16	0	1	0	0	5	1	2	2	11	8	0	1	5	9	12	0
D	224	123	44	31	34	102	89	75	74	75	27	17	25	59	100	138	2
E	31	23	19	14	13	23	52	57	53	41	29	21	15	29	50	53	0
F	6	0	2	2	3	3	11	6	22	19	32	9	7	6	15	11	0
G	4	2	0	2	0	1	0	4	6	7	21	13	6	12	8	6	0
TOTAL	284	151	66	49	50	134	153	144	158	159	117	60	55	111	182	226	2

JFDs of 100-Meter Wind vs. Delta T

April-June 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	6	10	0	0	0	0	0	0	0	16
18.51-24.00	0	0	0	0	0	0	0	3	16	0	0	0	0	0	0	0	19
>24.00	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3
TOTAL	0	0	0	0	0	0	0	11	27	0	0	0	0	0	0	0	38

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	1	7	3	0	0	0	0	0	0	0	11
12.51-18.50	0	0	0	0	0	1	8	15	10	5	0	0	0	0	0	0	39
18.51-24.00	0	0	0	0	0	0	3	8	11	1	0	0	0	0	0	4	27
>24.00	0	0	0	0	0	0	0	1	17	0	0	0	0	0	0	1	19
TOTAL	0	0	0	0	0	1	12	31	41	6	0	0	0	0	0	5	96

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	4
7.51-12.50	3	1	0	0	0	6	8	8	7	11	1	0	0	1	2	1	49
12.51-18.50	2	8	0	0	0	6	11	12	16	8	0	0	1	4	3	5	76
18.51-24.00	0	0	0	0	0	0	1	2	9	0	0	0	1	7	6	4	30
>24.00	0	0	0	0	0	0	0	4	14	0	0	0	0	0	2	1	21
TOTAL	5	9	0	0	0	13	20	26	46	21	1	0	2	13	13	11	180

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	2	0	0	2	1	0	1	1	0	2	0	0	0	0	2	12
3.51- 7.50	3	4	8	9	3	10	9	7	4	9	6	4	5	6	8	3	98
7.51-12.50	13	10	6	9	14	28	19	20	30	32	11	5	3	15	26	30	271
12.51-18.50	12	10	8	6	14	31	49	26	61	18	9	8	21	24	26	26	349
18.51-24.00	11	3	1	3	3	11	21	29	52	5	3	11	18	10	25	22	228
>24.00	8	0	0	0	4	4	3	24	23	1	3	1	0	6	1	15	93
TOTAL	48	29	23	27	40	85	101	107	171	65	34	29	47	61	86	98	1051

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	3
3.51- 7.50	2	1	2	0	2	2	2	1	3	8	1	3	0	0	2	3	32
7.51-12.50	8	3	5	6	5	8	7	16	10	29	12	4	5	4	11	18	151
12.51-18.50	12	5	1	9	9	8	25	43	51	9	2	5	5	6	10	19	219
18.51-24.00	3	2	0	1	0	0	12	32	36	2	1	3	3	11	6	1	113
>24.00	0	0	0	0	0	2	5	2	5	0	0	0	2	1	0	0	17
TOTAL	25	11	8	16	16	20	51	94	105	49	17	15	15	22	30	41	535

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	1	2	2	3	0	2	1	8	1	0	2	0	1	0	24
7.51-12.50	2	4	4	2	3	5	10	12	6	13	8	0	3	4	3	9	88
12.51-18.50	1	3	0	1	0	2	13	11	4	4	1	0	1	6	5	9	61
18.51-24.00	1	0	0	0	0	0	0	0	1	0	0	1	0	8	2	1	14
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	7	5	5	5	10	23	25	12	25	10	1	6	18	11	19	187

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	0	1	0	0	0	0	0	2	2	0	0	1	3	10
3.51- 7.50	1	2	1	1	0	0	0	0	0	2	2	1	2	2	1	0	15
7.51-12.50	0	1	1	1	0	0	0	1	1	0	5	1	3	0	0	2	16
12.51-18.50	3	0	0	0	0	0	1	2	0	0	3	1	0	0	0	1	11
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	3	2	2	1	0	1	3	1	2	13	5	5	2	2	6	53

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	2	0	0	3	1	0	1	1	1	5	2	0	0	2	5	25
3.51- 7.50	7	7	12	12	7	16	11	10	8	29	10	8	9	9	12	6	173
7.51-12.50	26	19	16	18	22	47	45	64	57	85	37	10	14	24	42	60	586
12.51-18.50	30	26	9	16	23	48	107	115	152	44	15	14	28	40	44	60	771
18.51-24.00	15	5	1	4	3	11	37	74	125	8	5	15	22	36	39	32	432
>24.00	8	0	0	0	4	6	8	33	60	1	3	1	2	7	3	17	153
TOTAL	88	59	38	50	62	129	208	297	403	168	75	50	75	116	142	180	2140

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/ 5 - 6/30/ 5

*** APR-JUN 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2140

TOTAL NUMBER OF MISSING OBSERVATIONS: 44

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.0 %

MEAN WIND SPEED FOR THIS PERIOD: 15.1 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.78	4.49	8.41	49.11	25.00	8.74	2.48

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	11	27	0	0	0	0	0	0	0	0
B	0	0	0	0	0	1	12	31	41	6	0	0	0	0	0	5	0
C	5	9	0	0	0	13	20	26	46	21	1	0	2	13	13	11	0
D	48	29	23	27	40	85	101	107	171	65	34	29	47	61	86	98	0
E	25	11	8	16	16	20	51	94	105	49	17	15	15	22	30	41	0
F	5	7	5	5	5	10	23	25	12	25	10	1	6	18	11	19	0
G	5	3	2	2	1	0	1	3	1	2	13	5	5	2	2	6	0
TOTAL	88	59	38	50	62	129	208	297	403	168	75	50	75	116	142	180	0

JFDs of 100-Meter Wind vs. Delta T

January-June 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	6	10	0	0	0	0	0	0	0	16
18.51-24.00	1	0	0	0	0	0	0	3	16	0	0	0	0	0	0	0	20
>24.00	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3
TOTAL	1	0	0	0	0	0	0	11	27	0	0	0	0	0	0	0	39

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	1	7	3	0	0	0	0	0	0	0	11
12.51-18.50	1	3	0	0	0	1	8	15	10	7	0	0	0	0	0	2	47
18.51-24.00	1	0	0	0	0	0	3	8	12	5	0	0	1	0	0	4	34
>24.00	0	0	0	0	0	0	0	1	17	0	0	0	0	0	0	5	23
TOTAL	2	3	0	0	0	1	12	31	42	12	0	0	1	0	0	11	115

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	5
7.51-12.50	13	1	0	0	0	8	8	10	8	15	2	0	0	3	2	8	78
12.51-18.50	6	8	1	0	0	9	12	12	16	13	4	0	1	4	3	7	96
18.51-24.00	1	0	0	0	0	0	1	2	10	1	0	0	2	9	8	4	38
>24.00	0	0	0	0	0	0	0	4	14	1	3	0	0	1	9	4	36
TOTAL	21	9	1	0	0	18	21	28	48	32	9	0	3	18	22	23	253

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	4	5	3	4	5	10	7	7	9	11	5	1	4	3	1	6	85
3.51- 7.50	24	33	20	21	15	28	21	15	16	28	10	11	11	20	20	15	308
7.51-12.50	99	65	27	15	21	52	46	48	42	51	19	13	7	25	39	57	626
12.51-18.50	92	34	14	13	19	56	81	52	79	34	14	8	28	34	50	71	679
18.51-24.00	41	15	3	5	6	22	32	34	69	14	7	12	21	25	53	50	409
>24.00	12	0	0	0	8	19	3	26	30	2	6	1	1	13	23	37	181
TOTAL	272	152	67	58	74	187	190	182	245	140	61	46	72	120	186	236	2290

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	1	0	1	0	3	6	3	0	4	3	0	1	0	2	0	24
3.51- 7.50	6	5	12	9	7	13	16	9	9	15	4	6	2	4	4	6	127
7.51-12.50	24	12	11	9	11	13	10	33	19	43	19	10	7	12	20	31	284
12.51-18.50	17	11	4	10	11	12	41	62	63	26	12	11	12	9	31	43	375
18.51-24.00	7	5	0	1	0	0	24	40	56	2	8	6	5	21	21	14	210
>24.00	2	0	0	0	0	2	6	4	11	0	0	3	3	5	2	0	38
TOTAL	56	34	27	30	29	43	103	151	158	90	46	36	30	51	80	94	1058

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	4
3.51- 7.50	1	0	3	3	2	5	3	4	2	11	3	0	6	2	5	1	51
7.51-12.50	5	4	4	3	3	6	16	15	12	27	16	2	5	7	9	14	148
12.51-18.50	3	3	0	1	2	2	15	12	17	6	14	2	1	7	6	14	105
18.51-24.00	1	0	0	0	0	0	0	0	3	0	8	4	1	8	5	1	31
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2
TOTAL	11	7	7	7	8	13	34	31	34	44	42	10	13	24	26	30	341

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	1	0	0	1	0	0	1	1	0	3	4	0	1	1	3	18
3.51- 7.50	2	2	1	2	0	1	0	0	2	5	6	2	3	4	6	5	41
7.51-12.50	2	2	1	2	0	0	0	3	4	4	9	5	5	7	2	3	49
12.51-18.50	3	0	0	0	0	0	1	3	0	0	10	5	3	2	1	1	29
18.51-24.00	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
TOTAL	9	5	2	4	1	1	1	7	7	9	34	18	11	14	10	12	145

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	7	7	3	5	7	13	13	11	10	15	11	7	5	4	4	9	131
3.51- 7.50	34	40	36	35	24	48	40	28	29	61	23	19	22	31	35	27	532
7.51-12.50	143	84	43	29	35	79	81	116	88	140	65	30	24	54	72	113	1196
12.51-18.50	122	59	19	24	32	80	158	162	195	86	54	26	45	56	91	138	1347
18.51-24.00	52	20	3	6	6	22	60	87	166	22	27	24	30	63	87	73	748
>24.00	14	0	0	0	8	21	9	37	73	3	12	4	4	19	35	46	285
TOTAL	372	210	104	99	112	263	361	441	561	327	192	110	130	227	324	406	4241

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

*** JAN-JUN 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4344

TOTAL NUMBER OF VALID OBSERVATIONS: 4241

TOTAL NUMBER OF MISSING OBSERVATIONS: 103

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.6 %

MEAN WIND SPEED FOR THIS PERIOD: 14.1 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.92	2.71	5.97	54.00	24.95	8.04	3.42

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	0	0	0	0	0	0	11	27	0	0	0	0	0	0	0	0
B	2	3	0	0	0	1	12	31	42	12	0	0	1	0	0	11	0
C	21	9	1	0	0	18	21	28	48	32	9	0	3	18	22	23	0
D	272	152	67	58	74	187	190	182	245	140	61	46	72	120	186	236	2
E	56	34	27	30	29	43	103	151	158	90	46	36	30	51	80	94	0
F	11	7	7	7	8	13	34	31	34	44	42	10	13	24	26	30	0
G	9	5	2	4	1	1	1	7	7	9	34	18	11	14	10	12	0
TOTAL	372	210	104	99	112	263	361	441	561	327	192	110	130	227	324	406	2

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

January-June 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			HOURS																							
5	1	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	D	D	D
5	1	2	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D
5	1	3	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	4	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	6	D	D	D	D	E	E	E	E	E	E	E	E	E	E	D	D	D	E	E	D	D	D	D	D
5	1	7	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
5	1	8	E	E	F	E	F	F	F	F	F	F	D	D	C	C	D	D	D	D	D	D	D	D	D	D
5	1	9	D	D	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	10	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	11	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D
5	1	12	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	13	C	B	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	14	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D
5	1	15	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
5	1	16	E	E	E	E	F	F	F	G	F	F	E	D	D	E	D	D	D	E	E	F	F	F	E	F
5	1	17	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
5	1	18	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
5	1	19	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	F	F	E
5	1	20	F	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	E	E	E	E	E	D	D	D
5	1	21	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	22	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	E	E
5	1	23	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	1	24	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	F	G	G	G	G	G
5	1	25	G	G	G	G	G	G	G	G	G	F	E	E	E	E	E	D	E	E	F	E	E	E	E	E
5	1	26	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	27	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	1	29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
5	1	30	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	E
5	1	31	E	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
5	2	1	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E
5	2	2	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	F	F	F	F	F
5	2	3	F	E	F	F	F	F	F	F	E	E	D	D	D	D	D	D	D	E	F	G	G	G	G	F
5	2	4	F	F	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
5	2	5	F	F	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	D	D
5	2	6	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	2	7	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D
5	2	8	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	2	9	D	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	F	G	G	G	G
5	2	10	F	G	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	E	E	F	F	E	E	F
5	2	11	E	E	F	F	G	G	G	G	G	G	E	E	E	D	D	D	E	E	E	E	E	F	F	F
5	2	12	F	G	G	G	G	G	G	G	G	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E
5	2	13	E	E	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D
5	2	14	D	D	D	D	E	E	E	F	E	D	D	D	D	D	D	D	D	E	E	E	F	F	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	2	15	E	E	E	E	E	E	E	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	E	E
5	2	16	E	E	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
5	2	17	F	F	E	F	F	G	G	G	F	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G
5	2	18	G	F	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	F	E	E
5	2	19	E	E	E	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	2	20	D	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	2	21	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	D
5	2	22	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	E	E
5	2	23	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
5	2	24	E	E	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	F	F	E	E
5	2	25	F	F	F	F	F	F	E	E	E	D	D	C	C	C	C	C	D	D	E	E	E	E	E	E
5	2	26	D	E	E	E	E	E	E	D	D	D	D	D	D	C	D	D	D	D	E	E	E	E	E	E
5	2	27	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E
5	2	28	E	E	E	E	E	E	E	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D
5	3	1	E	E	E	E	E	E	E	D	D	D	C	C	C	D	D	D	D	D	E	F	F	G	G	F
5	3	2	F	F	F	F	G	F	F	F	E	D	D	D	D	D	D	D	D	D	E	F	F	F	E	E
5	3	3	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F	F	F	F	F	G
5	3	4	G	G	G	G	G	G	G	G	E	E	D	D	C	C	C	D	D	D	E	E	E	E	E	E
5	3	5	E	E	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	G	F	G
5	3	6	F	F	F	G	G	G	G	G	F	D	D	C	C	C	C	D	D	D	E	E	D	D	D	E
5	3	7	E	E	D	E	D	D	D	D	D	D	C	B	B	B	B	C	D	D	D	E	E	E	E	E
5	3	8	F	E	E	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
5	3	9	E	E	E	D	D	D	D	D	D	D	C	C	C	C	C	C	D	D	E	E	E	D	D	D
5	3	10	E	D	D	D	D	E	E	E	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D	D
5	3	11	D	D	D	E	E	E	E	E	D	D	D	C	C	D	D	D	D	D	E	E	E	E	E	E
5	3	12	E	F	F	F	G	G	F	E	D	D	D	C	B	A	B	D	D	D	D	D	D	E	E	D
5	3	13	D	D	D	D	D	D	D	D	D	D	D	C	D	D	C	D	D	D	D	D	E	E	E	F
5	3	14	F	G	F	G	G	F	G	E	D	D	D	C	D	D	C	D	D	D	E	E	E	E	E	F
5	3	15	F	F	F	F	F	F	G	G	E	D	D	C	C	C	C	D	D	D	D	E	E	E	E	E
5	3	16	E	E	E	E	E	E	F	F	E	D	D	C	C	C	C	C	D	D	E	E	E	E	E	E
5	3	17	E	E	E	E	E	E	E	D	D	D	B	C	B	B	B	D	D	D	D	E	E	E	E	E
5	3	18	E	E	E	E	D	D	D	D	D	D	D	C	B	C	C	D	D	D	D	D	D	D	D	D
5	3	19	D	D	D	D	D	D	D	D	D	D	C	B	B	C	C	D	D	D	D	E	E	E	D	D
5	3	20	D	E	D	D	D	D	D	D	D	D	C	C	C	C	D	C	D	D	D	D	D	D	D	D
5	3	21	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	3	22	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	3	23	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	3	24	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	3	25	D	D	D	D	D	D	D	D	D	D	B	B	D	D	D	D	D	D	D	D	D	D	D	D
5	3	26	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	G
5	3	27	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	E	F	F	G	G	F
5	3	28	G	G	F	F	F	F	F	E	D	D	C	C	C	C	B	C	D	D	E	E	E	E	E	E
5	3	29	E	E	E	D	D	E	E	D	D	D	C	B	B	-	-	-	-	-	-	-	-	-	-	-
5	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	3	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	C	B	B	C	D	D	D	E	E	E	E	E
5	4	2	F	G	G	G	G	G	G	G	E	D	D	C	C	C	C	C	D	D	E	E	E	E	E	E
5	4	3	E	E	F	F	F	G	G	F	D	D	D	D	D	D	C	C	D	D	E	E	E	E	E	E
5	4	4	E	E	E	E	E	E	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	E	E	E	E	E
5	4	6	D	D	E	E	E	D	D	D	D	E	E	D	D	D	D	D	E	E	E	E	E	D	D	D
5	4	7	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	C	D	D	D	E	E	E	E	E
5	4	8	E	E	F	F	F	F	F	F	E	D	C	B	B	B	C	C	D	D	D	E	E	E	E	E
5	4	9	E	E	E	D	E	E	E	D	D	C	B	B	B	B	C	C	D	D	D	E	E	F	E	E
5	4	10	E	E	E	E	E	E	E	D	D	D	C	D	D	D	D	D	D	E	D	E	E	E	D	D
5	4	11	D	D	E	D	E	E	E	E	D	D	D	D	D	D	D	D	E	E	D	D	D	D	D	E
5	4	12	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	4	13	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	E	E	E	E	E
5	4	14	E	F	F	F	F	E	E	E	D	D	C	C	C	C	C	C	D	D	D	E	F	F	F	G
5	4	15	F	F	F	F	F	F	F	E	D	D	C	C	D	C	C	D	D	D	E	E	E	E	F	F
5	4	16	F	F	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	F	F	F
5	4	17	F	F	F	F	F	F	F	E	D	D	D	C	C	C	C	D	D	D	D	E	E	E	E	E
5	4	18	E	E	E	E	E	E	D	D	D	D	D	C	B	B	C	C	D	D	D	D	D	D	E	E
5	4	19	E	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D	E
5	4	20	E	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	4	21	D	E	E	E	E	D	E	D	D	D	D	D	C	C	D	D	D	D	D	E	E	E	E	E
5	4	22	D	D	E	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D
5	4	23	D	D	D	D	E	E	D	D	D	C	C	C	B	B	B	C	D	D	D	E	E	F	E	E
5	4	24	F	F	F	F	F	F	F	D	D	D	D	D	D	C	D	D	D	D	D	E	F	G	G	G
5	4	25	G	G	G	F	F	G	E	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F
5	4	26	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	4	27	E	E	E	E	E	E	E	D	D	D	C	D	C	D	D	D	D	D	D	D	E	E	E	E
5	4	28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D
5	4	29	D	E	E	E	E	D	E	D	D	D	D	D	D	D	C	C	D	D	D	E	F	F	F	F
5	4	30	F	G	G	F	F	E	E	D	D	D	D	C	D	D	C	D	D	D	D	E	F	G	F	E
5	5	1	E	D	E	E	E	E	D	D	D	C	C	C	C	D	C	D	D	D	D	D	E	E	E	E
5	5	2	F	F	E	E	E	E	E	D	D	C	C	C	C	D	C	D	D	D	D	E	F	G	G	G
5	5	3	G	F	F	F	F	E	D	D	D	D	C	D	C	C	D	D	D	D	D	E	F	F	F	F
5	5	4	F	G	G	G	F	E	E	D	D	D	D	D	C	C	D	D	D	D	D	E	E	E	E	F
5	5	5	F	F	F	E	F	F	E	D	D	C	C	B	B	B	C	C	D	D	D	E	E	E	E	E
5	5	6	E	E	E	E	E	E	D	D	D	D	C	C	C	C	D	D	D	D	D	E	E	E	E	E
5	5	7	D	D	D	E	E	E	D	D	D	D	C	C	C	B	C	C	D	D	D	D	D	D	D	D
5	5	8	D	D	D	D	D	D	D	D	D	C	B	A	B	C	C	D	D	D	D	F	F	E	E	E
5	5	9	E	E	E	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	G	G
5	5	10	G	F	F	F	F	F	E	D	D	D	C	B	B	B	C	C	D	D	D	D	D	D	D	D
5	5	11	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	5	12	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	D
5	5	13	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F
5	5	14	F	E	E	F	E	E	F	D	D	D	D	D	C	C	C	D	D	D	D	E	E	E	E	F
5	5	15	E	E	E	E	F	E	D	D	D	D	D	D	D	C	D	D	D	D	D	E	F	F	F	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			HOURS																							
5	5	16	E	E	E	E	E	E	D	D	C	B	B	A	A	B	B	B	C	D	D	D	E	D	D	D
5	5	17	E	E	D	D	D	D	D	D	D	C	B	B	A	C	C	C	D	D	D	D	D	D	D	D
5	5	18	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F	F	F	G	G
5	5	19	G	G	G	G	G	G	F	E	D	D	D	D	C	D	D	D	D	E	E	F	F	E	F	F
5	5	20	F	F	F	G	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	5	21	D	D	D	D	D	D	D	D	B	B	B	B	A	B	B	B	C	D	D	D	D	D	D	E
5	5	22	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	G	G
5	5	23	G	G	G	G	G	G	G	E	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F
5	5	24	F	E	E	E	D	D	D	D	D	D	C	C	C	C	B	B	B	C	D	D	E	E	E	D
5	5	25	D	D	E	D	D	D	D	D	D	B	B	C	B	C	C	C	D	D	D	D	E	E	E	E
5	5	26	E	E	E	E	E	E	D	D	D	D	D	C	C	C	D	D	D	D	D	E	D	E	E	E
5	5	27	E	E	E	E	E	G	F	D	D	D	D	D	D	C	D	D	D	D	D	E	F	E	F	F
5	5	28	F	G	G	G	F	F	E	D	D	C	D	D	C	D	D	D	D	D	D	E	E	E	E	E
5	5	29	E	F	F	F	F	E	D	D	D	D	D	C	C	D	D	D	D	D	D	D	E	E	E	E
5	5	30	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	E	E
5	5	31	E	E	E	E	E	E	D	D	D	C	C	B	B	C	C	D	D	D	D	D	E	D	D	D
5	6	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	E	E	F	F	F
5	6	2	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	C	D	D	E	E	E	E	E
5	6	3	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	D
5	6	4	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	E	E	D	D	E	E
5	6	5	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F
5	6	6	F	E	E	E	E	E	E	D	D	C	D	A	A	A	B	B	B	D	D	D	D	E	D	E
5	6	7	E	E	E	E	D	D	D	D	C	C	D	B	A	A	A	B	B	D	D	D	D	D	D	D
5	6	8	D	D	D	D	E	D	D	D	D	D	D	D	B	C	C	C	D	E	E	E	E	E	E	E
5	6	9	F	E	E	E	E	E	E	E	D	D	D	E	D	E	D	D	D	D	D	E	E	E	E	E
5	6	10	E	E	F	F	E	E	E	D	D	D	D	D	C	D	D	C	D	D	D	E	E	E	E	E
5	6	11	E	D	D	D	D	D	D	D	D	D	D	D	B	C	C	D	D	D	D	E	E	E	E	E
5	6	12	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
5	6	13	E	D	D	D	E	E	D	D	D	C	D	B	B	B	D	D	D	D	D	D	D	D	D	D
5	6	14	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F
5	6	15	F	F	F	F	F	E	E	D	D	D	D	D	C	D	D	D	D	D	D	E	F	G	F	E
5	6	16	D	E	D	D	D	D	D	D	D	C	B	B	B	B	B	C	D	D	D	D	D	D	D	D
5	6	17	D	D	D	D	E	D	D	D	D	D	C	D	D	C	C	C	D	D	D	D	F	F	F	F
5	6	18	F	F	F	F	F	F	E	D	C	B	A	A	B	B	A	B	C	D	D	D	E	E	E	E
5	6	19	E	E	E	E	E	E	E	D	C	B	B	B	B	B	B	B	C	C	D	D	E	E	E	E
5	6	20	E	E	E	E	E	E	D	D	C	B	C	C	B	A	A	B	B	C	D	E	E	E	E	E
5	6	21	E	E	E	E	E	E	E	D	D	D	D	D	D	C	D	D	D	D	D	E	E	E	F	F
5	6	22	F	F	F	F	F	F	E	D	D	C	C	C	B	A	A	A	B	D	D	E	E	E	E	E
5	6	23	E	E	E	E	E	E	D	D	C	B	B	A	A	A	A	A	C	D	D	D	E	E	E	E
5	6	24	E	E	E	E	E	E	D	D	C	C	B	A	A	A	A	B	B	D	D	E	E	E	D	D
5	6	25	D	D	E	E	E	E	D	D	D	D	D	D	D	B	C	C	D	D	D	E	E	E	E	E
5	6	26	D	E	E	E	E	E	D	D	C	B	A	A	A	A	A	A	C	D	D	E	E	E	E	E
5	6	27	E	E	E	E	E	D	D	D	D	C	C	B	A	A	A	B	C	D	D	E	E	D	D	D
5	6	28	D	D	E	D	D	D	D	D	D	C	B	B	B	A	B	B	C	D	D	D	E	E	E	E
5	6	29	E	E	E	E	E	D	D	D	D	D	D	B	B	B	B	D	D	E	E	E	E	E	E	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 6/30/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

			HOURS																							
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	6	30	F	F	E	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F

JFDs of 100-Meter Wind vs. Delta T

July-September 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	9	20	0	0	0	0	0	0	0	29
18.51-24.00	0	0	0	0	0	0	0	6	12	0	0	0	0	0	0	0	18
>24.00	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
TOTAL	0	0	0	0	0	0	0	15	39	0	0	0	0	0	0	0	54

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	1	9	9	1	0	0	0	0	0	0	20
12.51-18.50	0	0	0	0	0	0	2	8	29	5	0	0	0	0	0	0	44
18.51-24.00	0	0	0	0	0	0	0	8	14	0	0	0	0	0	0	0	22
>24.00	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
TOTAL	0	0	0	0	0	0	3	25	62	6	0	0	0	0	0	0	96

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	2	1	1	2	2	4	1	4	6	4	3	0	1	0	0	0	31
7.51-12.50	13	6	0	4	5	7	10	7	16	14	0	2	3	1	0	0	88
12.51-18.50	3	0	0	0	0	1	3	9	13	3	0	0	0	1	1	0	34
18.51-24.00	1	1	0	0	0	0	0	5	12	0	0	0	0	0	0	0	19
>24.00	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
TOTAL	19	8	1	6	7	12	14	25	52	21	3	2	4	2	1	0	177

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	1	1	0	0	0	1	2	2	3	6	0	0	2	2	1	22
3.51- 7.50	10	19	6	16	15	26	16	19	18	27	9	7	9	0	6	4	207
7.51-12.50	17	13	14	16	27	30	25	28	20	26	7	2	1	5	5	8	244
12.51-18.50	21	15	12	4	5	19	31	32	38	7	2	1	1	1	2	13	204
18.51-24.00	20	1	0	0	0	0	2	15	35	2	1	0	0	0	0	9	85
>24.00	0	0	0	0	0	0	0	1	11	0	0	0	0	0	0	1	13
TOTAL	69	49	33	36	47	75	75	97	124	65	25	10	11	8	15	36	775

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	2	0	1	0	0	2	1	1	1	0	0	0	1	10
3.51- 7.50	4	5	8	5	5	11	8	7	3	9	2	4	2	2	4	4	83
7.51-12.50	13	10	8	10	11	18	25	27	36	40	8	8	4	2	1	5	226
12.51-18.50	20	18	6	0	4	3	30	63	83	12	3	7	3	0	2	14	268
18.51-24.00	1	0	0	0	0	1	1	33	40	1	3	4	1	0	0	0	85
>24.00	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	4
TOTAL	39	33	22	17	20	34	64	132	166	63	17	24	10	4	7	24	676

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	1	1	0	0	0	0	2	1	3	1	1	2	0	0	1	13
3.51- 7.50	0	4	8	5	8	9	2	2	7	9	4	2	3	0	1	1	65
7.51-12.50	3	1	3	2	6	8	12	22	15	14	9	3	4	4	0	2	108
12.51-18.50	0	3	0	1	1	0	6	23	18	4	4	0	1	3	1	3	68
18.51-24.00	0	0	0	0	1	0	0	0	5	2	1	2	0	0	0	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL	3	9	12	8	16	17	20	49	46	32	19	9	10	7	2	7	266

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	1	3	1	0	2	0	0	0	1	0	0	0	1	10
3.51- 7.50	1	2	3	2	5	6	3	1	4	9	3	2	1	0	1	0	43
7.51-12.50	0	2	0	0	0	0	4	8	8	2	0	1	0	1	0	0	26
12.51-18.50	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	2	4	3	3	8	7	7	12	13	11	4	5	1	1	1	1	83

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	3	2	2	3	3	2	1	6	5	7	8	3	2	2	2	4	55
3.51- 7.50	17	31	26	30	35	56	30	33	38	58	21	15	16	2	12	9	429
7.51-12.50	46	32	25	32	49	63	77	101	107	97	24	16	12	13	6	15	715
12.51-18.50	44	36	18	5	10	23	72	145	202	31	9	9	5	5	6	30	650
18.51-24.00	22	2	0	0	1	1	3	67	118	5	5	6	1	0	0	9	240
>24.00	0	0	0	0	0	0	0	3	32	0	1	1	0	0	0	1	38
TOTAL	132	103	71	70	98	145	183	355	502	198	68	50	36	22	26	68	2127

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 9/30/ 5

*** JUL-SEP 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2127

TOTAL NUMBER OF MISSING OBSERVATIONS: 81

PERCENT DATA RECOVERY FOR THIS PERIOD: 96.3 %

MEAN WIND SPEED FOR THIS PERIOD: 12.1 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.54	4.51	8.32	36.44	31.78	12.51	3.90

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	15	39	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	3	25	62	6	0	0	0	0	0	0	0
C	19	8	1	6	7	12	14	25	52	21	3	2	4	2	1	0	0
D	69	49	33	36	47	75	75	97	124	65	25	10	11	8	15	36	0
E	39	33	22	17	20	34	64	132	166	63	17	24	10	4	7	24	0
F	3	9	12	8	16	17	20	49	46	32	19	9	10	7	2	7	0
G	2	4	3	3	8	7	7	12	13	11	4	5	1	1	1	1	0
TOTAL	132	103	71	70	98	145	183	355	502	198	68	50	36	22	26	68	0

JFDs of 100-Meter Wind vs. Delta T

October-December 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
TOTAL	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	1	7
18.51-24.00	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	5
>24.00	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
TOTAL	3	0	0	0	0	0	0	0	12	1	0	0	0	0	0	2	18

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
7.51-12.50	5	0	0	0	0	0	3	2	0	4	0	2	3	1	0	3	23
12.51-18.50	1	0	0	0	0	0	1	9	7	6	0	0	0	0	2	5	31
18.51-24.00	2	0	0	0	0	0	0	1	9	0	0	0	0	0	1	2	15
>24.00	0	0	0	0	0	0	1	0	9	0	0	0	0	0	1	0	11
TOTAL	8	1	0	0	0	0	5	12	25	10	0	3	3	1	4	10	82

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	3	1	0	0	3	1	2	0	1	1	0	0	0	0	0	14
3.51- 7.50	10	9	12	4	3	8	9	10	9	16	6	6	5	4	9	13	133
7.51-12.50	33	20	16	7	6	19	24	20	20	31	7	15	13	17	31	41	320
12.51-18.50	18	12	10	6	7	15	37	33	23	11	7	10	8	27	56	44	324
18.51-24.00	6	4	1	0	0	8	14	25	37	1	4	2	9	60	36	28	235
>24.00	1	0	0	0	0	1	6	6	30	2	2	1	3	33	29	17	131
TOTAL	70	48	40	17	16	54	91	96	119	62	27	34	38	141	161	143	1157

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	2	1	0	1	0	0	0	1	4	0	9
3.51- 7.50	4	0	2	1	3	6	2	3	1	6	1	0	1	0	7	5	42
7.51-12.50	7	3	8	6	7	16	9	6	9	33	12	11	4	12	12	26	181
12.51-18.50	17	3	2	4	6	11	11	11	42	26	6	14	10	12	28	23	226
18.51-24.00	1	0	0	0	0	0	0	12	22	0	12	7	31	26	16	8	135
>24.00	0	0	0	0	0	0	2	4	5	0	1	0	4	15	1	0	32
TOTAL	29	6	12	11	16	33	26	37	79	66	32	32	50	66	68	62	625

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	1	1	0	2	0	4	3	0	0	1	1	1	3	0	3	0	20
7.51-12.50	2	1	1	0	0	8	3	7	6	15	6	2	4	3	7	6	71
12.51-18.50	2	0	0	2	0	4	13	6	15	8	3	5	4	3	2	7	74
18.51-24.00	0	1	0	0	0	0	0	0	3	0	0	3	3	5	2	1	18
>24.00	0	0	0	0	0	0	0	0	0	0	0	5	1	2	0	0	8
TOTAL	5	5	1	4	0	16	19	13	24	24	10	16	15	13	14	14	193

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	0	0	2	0	1	0	1	0	0	0	1	0	1	7
3.51- 7.50	2	2	5	9	1	1	1	2	5	5	3	2	2	1	1	1	43
7.51-12.50	5	4	1	2	1	1	4	1	3	8	6	6	2	1	0	1	46
12.51-18.50	2	0	0	0	0	1	4	11	9	0	2	1	0	0	2	0	32
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	6	6	11	2	5	9	15	17	14	11	11	4	3	3	3	130

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	3	5	1	0	0	5	3	4	0	3	1	0	0	2	4	1	32
3.51- 7.50	17	13	19	16	7	19	15	15	15	28	11	10	11	5	20	19	240
7.51-12.50	52	28	26	15	14	44	43	36	38	91	31	36	26	34	50	77	641
12.51-18.50	42	15	12	12	13	31	66	70	100	51	18	30	22	42	90	80	694
18.51-24.00	10	5	1	0	0	8	14	38	74	2	16	14	43	91	55	40	411
>24.00	1	0	0	0	0	1	9	10	52	2	3	6	8	50	31	17	190
TOTAL	125	66	59	43	34	108	150	173	279	177	80	96	110	224	250	234	2208

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/ 5 - 12/31/ 5

*** OCT-DEC 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2208

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 14.7 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.14	.82	3.71	52.40	28.31	8.74	5.89

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
B	3	0	0	0	0	0	0	0	12	1	0	0	0	0	0	2	0
C	8	1	0	0	0	0	5	12	25	10	0	3	3	1	4	10	0
D	70	48	40	17	16	54	91	96	119	62	27	34	38	141	161	143	0
E	29	6	12	11	16	33	26	37	79	66	32	32	50	66	68	62	0
F	5	5	1	4	0	16	19	13	24	24	10	16	15	13	14	14	0
G	10	6	6	11	2	5	9	15	17	14	11	11	4	3	3	3	0
TOTAL	125	66	59	43	34	108	150	173	279	177	80	96	110	224	250	234	0

JFDs of 100-Meter Wind vs. Delta T

July-December 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	9	20	0	0	0	0	0	0	0	29
18.51-24.00	0	0	0	0	0	0	0	6	13	0	0	0	0	0	0	0	19
>24.00	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
TOTAL	0	0	0	0	0	0	0	15	42	0	0	0	0	0	0	0	57

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	1	9	9	1	0	0	0	0	0	0	20
12.51-18.50	2	0	0	0	0	0	2	8	33	5	0	0	0	0	0	1	51
18.51-24.00	1	0	0	0	0	0	0	8	16	1	0	0	0	0	0	1	27
>24.00	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
TOTAL	3	0	0	0	0	0	3	25	74	7	0	0	0	0	0	2	114

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	2	2	1	2	2	4	1	4	6	4	3	1	1	0	0	0	33
7.51-12.50	18	6	0	4	5	7	13	9	16	18	0	4	6	2	0	3	111
12.51-18.50	4	0	0	0	0	1	4	18	20	9	0	0	0	1	3	5	65
18.51-24.00	3	1	0	0	0	0	0	6	21	0	0	0	0	0	1	2	34
>24.00	0	0	0	0	0	0	1	0	14	0	0	0	0	0	1	0	16
TOTAL	27	9	1	6	7	12	19	37	77	31	3	5	7	3	5	10	259

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	3	4	2	0	0	3	2	4	2	4	7	0	0	2	2	1	36
3.51- 7.50	20	28	18	20	18	34	25	29	27	43	15	13	14	4	15	17	340
7.51-12.50	50	33	30	23	33	49	49	48	40	57	14	17	14	22	36	49	564
12.51-18.50	39	27	22	10	12	34	68	65	61	18	9	11	9	28	58	57	528
18.51-24.00	26	5	1	0	0	8	16	40	72	3	5	2	9	60	36	37	320
>24.00	1	0	0	0	0	1	6	7	41	2	2	1	3	33	29	18	144
TOTAL	139	97	73	53	63	129	166	193	243	127	52	44	49	149	176	179	1932

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	2	0	1	2	1	2	2	1	1	0	1	4	1	19
3.51- 7.50	8	5	10	6	8	17	10	10	4	15	3	4	3	2	11	9	125
7.51-12.50	20	13	16	16	18	34	34	33	45	73	20	19	8	14	13	31	407
12.51-18.50	37	21	8	4	10	14	41	74	125	38	9	21	13	12	30	37	494
18.51-24.00	2	0	0	0	0	1	1	45	62	1	15	11	32	26	16	8	220
>24.00	0	0	0	0	0	0	2	6	7	0	1	0	4	15	1	0	36
TOTAL	68	39	34	28	36	67	90	169	245	129	49	56	60	70	75	86	1301

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	3	1	0	0	0	0	2	1	3	1	1	2	0	0	1	15
3.51- 7.50	1	5	8	7	8	13	5	2	7	10	5	3	6	0	4	1	85
7.51-12.50	5	2	4	2	6	16	15	29	21	29	15	5	8	7	7	8	179
12.51-18.50	2	3	0	3	1	4	19	29	33	12	7	5	5	6	3	10	142
18.51-24.00	0	1	0	0	1	0	0	0	8	2	1	5	3	5	2	1	29
>24.00	0	0	0	0	0	0	0	0	0	0	0	6	1	2	0	0	9
TOTAL	8	14	13	12	16	33	39	62	70	56	29	25	25	20	16	21	459

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	0	0	1	3	3	0	3	0	1	0	1	0	1	0	2	17
3.51- 7.50	3	4	8	11	6	7	4	3	9	14	6	4	3	1	2	1	86
7.51-12.50	5	6	1	2	1	1	8	9	11	10	6	7	2	2	0	1	72
12.51-18.50	2	0	0	0	0	1	4	12	10	0	2	2	0	0	2	0	35
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	12	10	9	14	10	12	16	27	30	25	15	16	5	4	4	4	213

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	6	7	3	3	3	7	4	10	5	10	9	3	2	4	6	5	87
3.51- 7.50	34	44	45	46	42	75	45	48	53	86	32	25	27	7	32	28	669
7.51-12.50	98	60	51	47	63	107	120	137	145	188	55	52	38	47	56	92	1356
12.51-18.50	86	51	30	17	23	54	138	215	302	82	27	39	27	47	96	110	1344
18.51-24.00	32	7	1	0	1	9	17	105	192	7	21	20	44	91	55	49	651
>24.00	1	0	0	0	0	1	9	13	84	2	4	7	8	50	31	18	228
TOTAL	257	169	130	113	132	253	333	528	781	375	148	146	146	246	276	302	4335

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

*** JUL-DEC 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4335

TOTAL NUMBER OF MISSING OBSERVATIONS: 81

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.2 %

MEAN WIND SPEED FOR THIS PERIOD: 13.4 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.31	2.63	5.97	44.57	30.01	10.59	4.91

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	15	42	0	0	0	0	0	0	0	0
B	3	0	0	0	0	0	3	25	74	7	0	0	0	0	0	2	0
C	27	9	1	6	7	12	19	37	77	31	3	5	7	3	5	10	0
D	139	97	73	53	63	129	166	193	243	127	52	44	49	149	176	179	0
E	68	39	34	28	36	67	90	169	245	129	49	56	60	70	75	86	0
F	8	14	13	12	16	33	39	62	70	56	29	25	25	20	16	21	0
G	12	10	9	14	10	12	16	27	30	25	15	16	5	4	4	4	0
TOTAL	257	169	130	113	132	253	333	528	781	375	148	146	146	246	276	302	0

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

July-December 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	HOURS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	7	1	F	G	G	F	E	E	D	D	D	D	C	D	C	C	C	C	D	D	D	E	E	E	F	E
5	7	2	E	E	E	E	E	E	E	D	C	B	B	A	A	A	B	B	B	C	D	D	E	E	E	E
5	7	3	E	E	D	D	D	D	D	D	D	D	C	D	D	D	E	E	D	D	E	E	F	F	E	E
5	7	4	E	E	E	E	E	E	E	D	D	D	D	D	C	C	C	C	D	D	E	E	F	G	G	G
5	7	5	G	G	G	G	G	G	F	E	D	D	D	D	D	C	D	D	D	D	D	E	E	E	F	F
5	7	6	F	F	F	F	F	F	E	E	D	D	D	C	C	B	B	B	B	C	D	E	F	F	F	F
5	7	7	G	G	F	F	E	F	E	D	C	B	B	A	A	A	A	A	A	C	D	E	E	E	F	F
5	7	8	E	E	E	E	E	E	D	D	C	A	B	A	A	A	A	B	B	C	D	E	E	E	E	E
5	7	9	E	E	E	E	E	E	E	D	D	B	B	A	A	A	A	A	A	C	D	E	E	F	E	E
5	7	10	E	F	F	F	F	F	E	D	D	C	B	A	A	A	A	B	B	D	D	E	E	E	E	F
5	7	11	F	E	E	E	E	E	E	D	D	D	D	D	C	C	C	C	D	D	D	E	F	E	E	E
5	7	12	E	E	E	F	F	E	E	E	D	D	D	D	C	C	C	D	F	E	E	D	E	E	E	E
5	7	13	E	E	E	E	E	F	E	D	D	D	D	C	D	C	C	C	D	D	E	E	E	E	E	F
5	7	14	F	F	F	F	F	G	F	E	D	D	D	C	C	C	C	D	D	D	E	E	F	F	F	F
5	7	15	F	F	F	G	G	F	F	E	D	D	D	D	C	C	D	D	D	D	D	E	F	G	G	G
5	7	16	G	G	G	G	G	G	F	E	D	C	B	B	A	A	B	A	B	D	D	E	F	E	E	E
5	7	17	E	E	F	F	F	E	E	D	C	B	A	A	A	A	A	A	B	C	D	D	D	D	E	D
5	7	18	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	G	G
5	7	19	G	F	F	F	F	F	E	D	C	B	B	B	B	A	B	B	B	C	D	D	D	D	D	D
5	7	20	D	D	E	E	E	E	D	D	D	C	A	C	B	B	B	B	C	D	D	E	E	E	E	E
5	7	21	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	D	D	D	D	E	E	E	E	E
5	7	22	E	E	E	E	E	E	E	D	D	D	D	B	B	A	A	B	C	D	D	E	E	E	E	E
5	7	23	E	E	E	E	E	E	E	D	D	D	C	B	B	D	D	D	D	D	D	E	E	E	E	E
5	7	24	E	E	E	E	E	E	E	D	D	C	C	C	C	B	B	B	C	D	D	E	E	E	E	E
5	7	25	E	E	E	E	E	E	D	D	C	B	A	A	A	A	B	D	D	D	D	D	D	D	D	D
5	7	26	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
5	7	27	E	E	E	E	E	E	D	D	D	D	C	C	C	C	D	D	D	D	D	E	F	F	G	G
5	7	28	G	G	G	G	G	G	F	E	D	D	C	C	B	B	B	B	C	D	D	E	F	F	F	E
5	7	29	E	E	E	F	E	F	E	E	D	D	C	B	D	C	C	D	D	D	D	E	F	F	F	F
5	7	30	F	F	E	E	E	F	E	E	D	D	C	C	A	B	C	C	D	D	E	E	E	E	E	F
5	7	31	E	E	E	E	E	E	E	D	D	D	D	C	D	D	C	C	D	D	D	E	E	F	F	F
5	8	1	F	F	E	E	E	E	E	E	D	D	C	D	B	D	D	E	D	D	E	E	E	E	E	E
5	8	2	E	E	E	E	E	F	E	E	E	D	D	C	D	C	D	D	D	E	E	E	E	E	E	E
5	8	3	E	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	F	E	F	F
5	8	4	E	F	F	F	E	D	D	D	D	D	D	C	D	D	D	D	D	D	E	E	E	E	E	E
5	8	5	E	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F
5	8	6	F	G	G	G	G	G	G	F	E	D	D	D	D	C	D	D	D	D	D	E	F	F	F	F
5	8	7	F	F	F	G	F	F	F	E	D	D	D	C	C	C	C	C	D	D	D	E	F	F	F	F
5	8	8	F	F	F	F	F	F	F	E	F	D	D	D	D	C	C	C	D	D	E	E	E	E	E	E
5	8	9	E	E	E	F	E	F	F	E	D	D	D	D	D	C	D	D	D	D	E	E	F	F	F	F
5	8	10	E	F	G	F	F	F	F	E	D	D	D	D	D	D	D	D	D	E	E	E	E	D	D	D
5	8	11	D	D	E	E	E	E	E	E	D	D	C	D	D	D	D	E	E	E	E	E	E	D	E	E
5	8	12	E	E	E	E	E	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	8	13	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	HOURS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	8	14	E	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	D	D	D	E	E	F	E	E
5	8	15	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F
5	8	16	E	E	F	F	F	F	F	F	E	D	D	D	C	C	C	D	D	D	E	F	F	F	F	F
5	8	17	F	F	F	F	E	E	E	D	D	D	C	C	C	D	D	D	D	D	D	D	E	E	E	E
5	8	18	E	E	E	E	E	F	G	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	D
5	8	19	D	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	D	D	E	E	E	E	F	F
5	8	20	F	E	E	E	F	E	F	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	E	E
5	8	21	E	E	E	E	E	F	E	D	D	D	D	D	D	D	D	D	C	D	E	F	F	F	F	E
5	8	22	E	E	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D	E
5	8	23	E	D	D	D	D	D	D	D	D	D	D	D	C	D	C	D	D	D	D	D	D	D	D	D
5	8	24	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	E	E	D
5	8	25	D	D	D	D	D	D	D	D	D	C	A	A	A	B	B	B	C	D	D	D	D	D	D	D
5	8	26	D	D	D	D	E	E	D	D	D	D	D	D	C	C	D	D	D	D	E	E	E	E	E	E
5	8	27	E	E	F	F	F	G	G	E	D	C	C	C	C	C	C	D	D	D	E	F	F	F	F	F
5	8	28	F	F	F	F	E	F	E	E	D	D	D	D	D	D	C	D	D	E	E	F	F	F	F	F
5	8	29	G	G	F	F	G	F	F	E	D	D	D	D	D	D	D	D	D	D	E	F	G	G	G	G
5	8	30	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	E	F	G	G	G	F	F
5	8	31	F	F	E	E	E	E	F	E	D	C	C	C	C	C	C	D	D	D	F	F	E	F	F	F
5	9	1	F	F	G	G	G	G	G	F	D	D	D	D	C	C	C	D	D	D	F	G	G	G	G	G
5	9	2	G	G	F	F	E	E	F	E	E	D	D	D	D	D	C	C	C	D	E	F	F	F	F	F
5	9	3	F	F	F	F	F	F	F	E	E	D	D	B	A	B	B	B	C	D	E	E	E	E	E	E
5	9	4	E	E	E	E	E	E	E	D	D	C	C	B	B	B	A	B	C	D	D	E	E	E	E	E
5	9	5	E	E	E	E	E	E	E	D	D	D	C	B	B	B	A	B	D	D	E	E	E	E	E	E
5	9	6	E	E	E	E	E	E	E	E	D	D	D	C	C	C	C	D	D	E	E	F	F	F	F	F
5	9	7	E	E	E	E	E	E	F	E	E	D	D	D	D	C	C	C	C	D	E	E	E	E	E	F
5	9	8	F	F	F	E	E	E	E	E	D	D	C	B	B	C	D	D	D	D	D	E	E	E	F	E
5	9	9	E	F	F	F	E	E	F	E	D	D	C	B	B	B	A	C	D	D	E	E	E	E	E	E
5	9	10	E	E	E	E	E	E	E	D	D	C	B	B	B	A	A	C	D	D	E	E	E	E	E	E
5	9	11	E	E	E	E	E	E	E	D	D	C	C	B	B	C	C	C	D	D	E	E	E	E	E	D
5	9	12	D	D	E	D	D	D	D	D	D	C	D	B	B	B	A	B	D	D	D	D	D	D	E	E
5	9	13	E	E	D	E	E	E	E	D	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E
5	9	14	E	E	E	E	E	E	E	E	D	D	C	C	C	C	C	D	D	D	E	E	F	E	E	E
5	9	15	E	E	E	E	E	E	D	E	E	E	E	D	D	D	D	D	D	D	D	E	E	D	E	E
5	9	16	E	F	F	G	F	F	F	F	E	E	D	D	D	D	C	C	D	D	E	E	E	E	E	F
5	9	17	F	F	F	F	E	E	E	D	D	C	B	A	B	C	D	D	D	D	D	D	E	E	E	E
5	9	18	E	E	E	E	E	E	E	D	D	D	D	C	C	D	D	D	D	D	D	D	E	E	E	E
5	9	19	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	F	F
5	9	20	F	F	G	G	G	G	G	G	E	D	C	C	C	C	C	D	D	D	E	F	E	E	F	F
5	9	21	F	F	F	F	F	E	E	E	D	C	B	C	A	B	B	C	D	D	D	E	E	E	E	E
5	9	22	E	E	E	E	E	E	D	D	D	C	C	C	D	C	D	D	D	D	D	D	E	E	E	E
5	9	23	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	9	24	D	D	D	D	D	D	D	D	D	D	B	B	B	B	C	C	D	D	D	D	D	E	E	E
5	9	25	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	9	26	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			HOURS																							
5	9	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	9	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	E	E	E	F	E	E
5	9	30	E	E	E	E	E	E	E	D	D	C	B	B	B	B	B	D	D	D	E	E	E	E	E	E
5	10	1	E	E	E	E	E	E	F	E	E	D	D	B	B	B	D	D	D	D	E	E	D	D	D	D
5	10	2	D	D	D	D	D	D	D	D	D	D	D	C	B	B	C	D	D	D	D	D	D	D	D	E
5	10	3	E	E	D	D	D	D	D	D	D	D	D	D	D	D	B	C	D	D	D	D	D	D	D	E
5	10	4	E	D	D	D	D	D	D	D	D	C	A	B	A	A	B	C	D	D	D	D	D	D	D	D
5	10	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D
5	10	6	D	D	D	E	E	E	D	D	D	C	B	C	C	B	B	C	D	E	E	E	E	E	E	E
5	10	7	D	E	E	E	D	E	E	D	D	D	D	D	D	D	C	D	D	D	E	F	F	F	F	E
5	10	8	E	E	E	E	E	E	E	D	D	D	D	C	D	D	C	D	D	D	E	E	E	F	E	E
5	10	9	E	E	F	F	F	E	E	E	D	D	D	D	D	C	D	D	D	D	E	F	F	F	E	E
5	10	10	E	E	E	E	E	F	E	E	D	D	D	D	D	D	D	D	D	E	E	F	F	E	E	E
5	10	11	E	E	E	E	E	E	E	E	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D
5	10	12	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	G	G
5	10	13	G	G	G	G	G	G	G	F	E	D	C	C	C	C	C	D	D	E	G	G	G	G	G	G
5	10	14	G	G	G	F	F	F	F	E	D	D	C	D	C	D	D	D	D	F	G	G	G	F	E	E
5	10	15	E	E	F	G	G	G	G	G	E	D	D	D	D	D	D	D	D	E	F	G	F	F	F	G
5	10	16	G	F	F	F	F	F	F	F	E	D	D	C	D	C	D	D	D	D	E	E	E	E	E	E
5	10	17	E	E	E	E	F	F	F	F	D	D	C	C	C	C	D	D	D	E	F	F	G	G	G	G
5	10	18	G	G	G	G	G	G	G	F	E	D	C	B	B	C	C	D	D	E	E	F	F	F	F	E
5	10	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	E
5	10	20	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	10	21	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	F	G	E	E	E	E
5	10	22	E	E	E	E	E	F	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
5	10	23	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
5	10	24	E	E	E	E	E	E	E	E	D	D	D	C	C	D	D	D	D	E	F	F	F	G	G	G
5	10	25	G	G	G	G	G	G	G	G	E	D	D	D	D	D	D	D	D	E	F	F	F	G	F	F
5	10	26	F	F	F	F	F	F	F	F	E	D	D	D	C	C	D	D	D	E	E	E	E	E	E	E
5	10	27	E	E	E	F	F	F	F	G	E	E	D	D	D	D	D	D	D	E	F	F	G	G	G	G
5	10	28	F	F	F	F	F	G	F	F	E	D	C	C	C	C	C	D	D	E	E	E	E	E	E	E
5	10	29	E	E	E	E	D	D	D	D	D	D	C	C	C	C	C	D	D	D	E	E	E	D	D	D
5	10	30	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	F	G	G	G	F	G
5	10	31	E	E	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	E	F	F	F	F	F	G
5	11	1	G	G	G	G	G	F	F	F	E	D	D	D	D	D	D	D	D	E	F	G	G	G	G	G
5	11	2	G	G	G	G	G	G	F	E	E	D	D	C	B	C	D	D	D	E	E	E	E	E	E	E
5	11	3	E	E	E	E	E	E	E	F	D	D	C	B	B	C	D	D	D	E	E	E	D	D	E	F
5	11	4	F	F	F	F	F	F	G	F	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	11	5	E	E	E	F	E	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D
5	11	6	E	E	E	E	E	E	E	E	D	D	D	D	C	C	D	D	D	E	E	E	E	E	E	E
5	11	7	E	E	E	E	E	E	E	E	D	D	D	C	D	D	D	D	D	E	F	G	G	G	G	G
5	11	8	G	G	G	G	F	F	F	F	E	D	D	D	D	D	D	D	D	F	F	G	G	G	F	D
5	11	9	D	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	E	E	F	F	F	E	F
5	11	10	G	G	G	G	G	G	G	G	F	D	D	C	C	C	D	D	E	E	F	F	F	F	F	E
5	11	11	E	E	E	E	E	E	E	E	E	D	D	C	C	C	C	D	D	E	E	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			HOURS																							
5	11	12	E	E	E	E	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	E	D	D
5	11	13	D	D	E	E	E	E	E	E	D	D	D	C	C	D	D	D	D	E	F	G	G	G	G	G
5	11	14	F	F	E	E	E	E	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D
5	11	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	11	16	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F	F
5	11	17	F	E	E	E	D	E	D	D	D	D	D	D	C	C	D	D	D	E	E	E	E	E	E	E
5	11	18	E	E	E	F	F	F	F	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
5	11	19	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
5	11	20	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	E
5	11	21	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	11	22	E	E	D	D	D	D	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	F	F	F
5	11	23	F	E	E	E	E	E	F	F	E	D	D	D	D	D	D	D	D	E	E	E	F	E	E	E
5	11	24	E	F	F	E	E	D	D	D	D	C	C	B	B	C	D	D	D	D	D	D	D	D	D	D
5	11	25	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	E	E	E	F	E	E	E	E
5	11	26	E	E	F	E	G	G	G	F	E	D	D	C	C	C	D	D	D	E	E	E	E	E	E	E
5	11	27	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
5	11	28	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	11	29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	11	30	D	D	E	E	E	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	2	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	3	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	4	E	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	D
5	12	5	D	D	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	6	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	12	7	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	8	D	D	D	E	E	E	F	F	F	E	D	D	D	D	D	D	D	E	E	F	F	E	F	F
5	12	9	F	F	F	F	F	G	F	F	F	F	E	D	D	D	D	D	E	E	E	E	E	E	E	E
5	12	10	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E
5	12	11	E	E	E	E	D	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
5	12	12	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	F	F	G	G	G	G
5	12	13	G	G	G	G	G	G	F	F	E	E	D	D	D	D	D	D	D	D	E	E	D	D	D	D
5	12	14	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	12	15	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
5	12	16	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	12	17	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	18	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	E	E	E	E	E	E
5	12	19	E	E	E	E	E	E	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	20	D	D	D	D	D	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	12	21	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
5	12	22	E	E	E	E	E	E	F	F	F	E	D	D	D	D	D	D	D	E	E	E	E	D	E	E
5	12	23	E	E	E	F	E	E	F	F	F	E	E	D	D	D	D	D	E	E	F	E	F	E	E	D
5	12	24	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	D
5	12	25	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	12	26	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F	G	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/ 5 - 12/31/ 5

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

YR MN DY	HOURS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5 12 27	G	G	G	G	G	G	G	G	F	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5 12 28	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	D	D
5 12 29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
5 12 30	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	F	E
5 12 31	E	F	F	F	F	E	F	F	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E

JFDs of 100-Meter Wind vs. Delta T

January-December 2005

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	15	30	0	0	0	0	0	0	0	45
18.51-24.00	1	0	0	0	0	0	0	9	29	0	0	0	0	0	0	0	39
>24.00	0	0	0	0	0	0	0	2	7	0	0	0	0	0	0	0	9
TOTAL	1	0	0	0	0	0	0	26	69	0	0	0	0	0	0	0	96

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	2	16	12	1	0	0	0	0	0	0	31
12.51-18.50	3	3	0	0	0	1	10	23	43	12	0	0	0	0	0	3	98
18.51-24.00	2	0	0	0	0	0	3	16	28	6	0	0	1	0	0	5	61
>24.00	0	0	0	0	0	0	0	1	33	0	0	0	0	0	0	5	39
TOTAL	5	3	0	0	0	1	15	56	116	19	0	0	1	0	0	13	229

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2005

SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	3	2	1	2	2	5	1	4	6	6	3	1	1	1	0	0	38
7.51-12.50	31	7	0	4	5	15	21	19	24	33	2	4	6	5	2	11	189
12.51-18.50	10	8	1	0	0	10	16	30	36	22	4	0	1	5	6	12	161
18.51-24.00	4	1	0	0	0	0	1	8	31	1	0	0	2	9	9	6	72
>24.00	0	0	0	0	0	0	1	4	28	1	3	0	0	1	10	4	52
TOTAL	48	18	2	6	7	30	40	65	125	63	12	5	10	21	27	33	512

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	7	9	5	4	5	13	9	11	11	15	12	1	4	5	3	7	121
3.51- 7.50	44	61	38	41	33	62	46	44	43	71	25	24	25	24	35	32	648
7.51-12.50	149	98	57	38	54	101	95	96	82	108	33	30	21	47	75	106	1190
12.51-18.50	131	61	36	23	31	90	149	117	140	52	23	19	37	62	108	128	1207
18.51-24.00	67	20	4	5	6	30	48	74	141	17	12	14	30	85	89	87	729
>24.00	13	0	0	0	8	20	9	33	71	4	8	2	4	46	52	55	325
TOTAL	411	249	140	111	137	316	356	375	488	267	113	90	121	269	362	415	4222

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	1	0	3	0	4	8	4	2	6	4	1	1	1	6	1	43
3.51- 7.50	14	10	22	15	15	30	26	19	13	30	7	10	5	6	15	15	252
7.51-12.50	44	25	27	25	29	47	44	66	64	116	39	29	15	26	33	62	691
12.51-18.50	54	32	12	14	21	26	82	136	188	64	21	32	25	21	61	80	869
18.51-24.00	9	5	0	1	0	1	25	85	118	3	23	17	37	47	37	22	430
>24.00	2	0	0	0	0	2	8	10	18	0	1	3	7	20	3	0	74
TOTAL	124	73	61	58	65	110	193	320	403	219	95	92	90	121	155	180	2359

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	3	1	0	1	0	0	2	1	3	1	3	2	0	0	1	19
3.51- 7.50	2	5	11	10	10	18	8	6	9	21	8	3	12	2	9	2	136
7.51-12.50	10	6	8	5	9	22	31	44	33	56	31	7	13	14	16	22	327
12.51-18.50	5	6	0	4	3	6	34	41	50	18	21	7	6	13	9	24	247
18.51-24.00	1	1	0	0	1	0	0	0	11	2	9	9	4	13	7	2	60
>24.00	0	0	0	0	0	0	0	0	0	0	1	6	1	2	1	0	11
TOTAL	19	21	20	19	24	46	73	93	104	100	71	35	38	44	42	51	800

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	4	1	0	1	4	3	0	4	1	1	3	5	0	2	1	5	35
3.51- 7.50	5	6	9	13	6	8	4	3	11	19	12	6	6	5	8	6	127
7.51-12.50	7	8	2	4	1	1	8	12	15	14	15	12	7	9	2	4	121
12.51-18.50	5	0	0	0	0	1	5	15	10	0	12	7	3	2	3	1	64
18.51-24.00	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
TOTAL	21	15	11	18	11	13	17	34	37	34	49	34	16	18	14	16	358

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	13	14	6	8	10	20	17	21	15	25	20	10	7	8	10	14	218
3.51- 7.50	68	84	81	81	66	123	85	76	82	147	55	44	49	38	67	55	1201
7.51-12.50	241	144	94	76	98	186	201	253	233	328	120	82	62	101	128	205	2552
12.51-18.50	208	110	49	41	55	134	296	377	497	168	81	65	72	103	187	248	2691
18.51-24.00	84	27	4	6	7	31	77	192	358	29	48	44	74	154	142	122	1399
>24.00	15	0	0	0	8	22	18	50	157	5	16	11	12	69	66	64	513
TOTAL	629	379	234	212	244	516	694	969	1342	702	340	256	276	473	600	708	8576

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2005
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/ 5 - 12/31/ 5

*** JAN-DEC 2005 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 8576

TOTAL NUMBER OF MISSING OBSERVATIONS: 184

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.9 %

MEAN WIND SPEED FOR THIS PERIOD: 13.8 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.12	2.67	5.97	49.23	27.51	9.33	4.17

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	0	0	0	0	0	0	26	69	0	0	0	0	0	0	0	0
B	5	3	0	0	0	1	15	56	116	19	0	0	1	0	0	13	0
C	48	18	2	6	7	30	40	65	125	63	12	5	10	21	27	33	0
D	411	249	140	111	137	316	356	375	488	267	113	90	121	269	362	415	2
E	124	73	61	58	65	110	193	320	403	219	95	92	90	121	155	180	0
F	19	21	20	19	24	46	73	93	104	100	71	35	38	44	42	51	0
G	21	15	11	18	11	13	17	34	37	34	49	34	16	18	14	16	0
TOTAL	629	379	234	212	244	516	694	969	1342	702	340	256	276	473	600	708	2

ATMOSPHERIC DIFFUSION ESTIMATES

The tables of atmospheric diffusion estimates in this section were generated using the computer code XOQDOQ. Data are given for 22 distances and 16 compass points (directions from site) centered on the Cooper Nuclear Station. Tables are presented for the ground-level (vent) and elevated (stack) release options separately, and for the following time periods in 2005: January-March, April-June, January-June, July-September, October-December, July-December, and January-December.

Atmospheric Diffusion Estimates

Ground Level Releases

January-March 2005

VENTS GROUND LEVEL RELEASES - JAN-MAR 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	5.716E-05	1.991E-05	1.070E-05	5.331E-06	2.095E-06	1.117E-06	6.991E-07	4.831E-07	3.568E-07	2.762E-07	2.216E-07
SSW	3.187E-05	1.128E-05	6.040E-06	2.997E-06	1.164E-06	6.154E-07	3.827E-07	2.630E-07	1.933E-07	1.490E-07	1.191E-07
SW	1.592E-05	5.708E-06	3.057E-06	1.514E-06	5.864E-07	3.094E-07	1.921E-07	1.319E-07	9.681E-08	7.457E-08	5.955E-08
WSW	1.829E-05	6.000E-06	3.101E-06	1.528E-06	6.177E-07	3.361E-07	2.138E-07	1.497E-07	1.118E-07	8.746E-08	7.078E-08
W	8.666E-06	2.966E-06	1.543E-06	7.577E-07	2.988E-07	1.597E-07	1.002E-07	6.939E-08	5.133E-08	3.980E-08	3.197E-08
WNW	1.573E-05	5.652E-06	3.010E-06	1.481E-06	5.629E-07	2.929E-07	1.799E-07	1.223E-07	8.911E-08	6.817E-08	5.410E-08
NW	4.448E-05	1.496E-05	7.825E-06	3.868E-06	1.551E-06	8.388E-07	5.313E-07	3.706E-07	2.759E-07	2.151E-07	1.737E-07
NNW	4.999E-05	1.563E-05	8.149E-06	4.076E-06	1.688E-06	9.334E-07	6.009E-07	4.247E-07	3.196E-07	2.515E-07	2.047E-07
N	9.808E-05	3.072E-05	1.621E-05	8.160E-06	3.376E-06	1.865E-06	1.200E-06	8.473E-07	6.372E-07	5.012E-07	4.077E-07
NNE	4.578E-05	1.486E-05	7.851E-06	3.926E-06	1.597E-06	8.726E-07	5.568E-07	3.908E-07	2.924E-07	2.290E-07	1.855E-07
NE	2.319E-05	7.502E-06	3.954E-06	1.976E-06	8.093E-07	4.441E-07	2.843E-07	2.001E-07	1.500E-07	1.177E-07	9.551E-08
ENE	1.233E-05	4.115E-06	2.158E-06	1.069E-06	4.281E-07	2.313E-07	1.464E-07	1.021E-07	7.598E-08	5.922E-08	4.780E-08
E	1.534E-05	5.219E-06	2.842E-06	1.433E-06	5.702E-07	3.065E-07	1.932E-07	1.342E-07	9.952E-08	7.735E-08	6.225E-08
ESE	1.533E-05	5.251E-06	2.844E-06	1.427E-06	5.635E-07	3.015E-07	1.894E-07	1.312E-07	9.711E-08	7.534E-08	6.054E-08
SE	2.917E-05	9.767E-06	5.318E-06	2.688E-06	1.080E-06	5.845E-07	3.703E-07	2.584E-07	1.924E-07	1.500E-07	1.211E-07
SSE	4.264E-05	1.417E-05	7.524E-06	3.755E-06	1.502E-06	8.104E-07	5.124E-07	3.569E-07	2.654E-07	2.067E-07	1.667E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.827E-07	9.258E-08	5.940E-08	3.361E-08	2.255E-08	1.658E-08	1.292E-08	1.047E-08	8.732E-09	7.444E-09	6.457E-09
SSW	9.788E-08	4.893E-08	3.109E-08	1.735E-08	1.153E-08	8.419E-09	6.519E-09	5.256E-09	4.365E-09	3.707E-09	3.204E-09
SW	4.891E-08	2.440E-08	1.548E-08	8.615E-09	5.714E-09	4.164E-09	3.219E-09	2.592E-09	2.150E-09	1.824E-09	1.575E-09
WSW	5.884E-08	3.078E-08	2.021E-08	1.182E-08	8.111E-09	6.073E-09	4.802E-09	3.941E-09	3.323E-09	2.861E-09	2.504E-09
W	2.640E-08	1.343E-08	8.653E-09	4.930E-09	3.328E-09	2.461E-09	1.926E-09	1.567E-09	1.312E-09	1.123E-09	9.770E-10
WNW	4.420E-08	2.158E-08	1.348E-08	7.350E-09	4.820E-09	3.481E-09	2.671E-09	2.137E-09	1.763E-09	1.488E-09	1.279E-09
NW	1.440E-07	7.458E-08	4.862E-08	2.814E-08	1.919E-08	1.429E-08	1.125E-08	9.202E-09	7.736E-09	6.642E-09	5.798E-09
NNW	1.709E-07	9.084E-08	6.028E-08	3.574E-08	2.476E-08	1.867E-08	1.484E-08	1.223E-08	1.035E-08	8.938E-09	7.841E-09
N	3.403E-07	1.806E-07	1.197E-07	7.079E-08	4.897E-08	3.686E-08	2.927E-08	2.410E-08	2.038E-08	1.758E-08	1.541E-08
NNE	1.544E-07	8.094E-08	5.322E-08	3.115E-08	2.140E-08	1.603E-08	1.267E-08	1.040E-08	8.770E-09	7.548E-09	6.603E-09
NE	7.958E-08	4.194E-08	2.766E-08	1.627E-08	1.120E-08	8.407E-09	6.657E-09	5.470E-09	4.617E-09	3.978E-09	3.483E-09
ENE	3.963E-08	2.052E-08	1.337E-08	7.741E-09	5.280E-09	3.934E-09	3.097E-09	2.533E-09	2.130E-09	1.829E-09	1.596E-09
E	5.149E-08	2.637E-08	1.704E-08	9.741E-09	6.578E-09	4.861E-09	3.801E-09	3.090E-09	2.584E-09	2.208E-09	1.919E-09
ESE	5.001E-08	2.552E-08	1.646E-08	9.378E-09	6.325E-09	4.670E-09	3.649E-09	2.965E-09	2.478E-09	2.117E-09	1.839E-09
SE	1.004E-07	5.196E-08	3.383E-08	1.953E-08	1.328E-08	9.870E-09	7.752E-09	6.325E-09	5.307E-09	4.548E-09	3.962E-09
SSE	1.381E-07	7.132E-08	4.639E-08	2.677E-08	1.821E-08	1.354E-08	1.064E-08	8.692E-09	7.299E-09	6.259E-09	5.458E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.036E-05	2.379E-06	7.240E-07	3.622E-07	2.234E-07	9.787E-08	3.442E-08	1.671E-08	1.051E-08	7.460E-09
SSW	5.853E-06	1.328E-06	3.969E-07	1.963E-07	1.201E-07	5.188E-08	1.782E-08	8.490E-09	5.278E-09	3.716E-09
SW	2.960E-06	6.694E-07	1.993E-07	9.835E-08	6.006E-08	2.588E-08	8.851E-09	4.199E-09	2.603E-09	1.829E-09
WSW	3.046E-06	6.948E-07	2.208E-07	1.134E-07	7.130E-08	3.232E-08	1.204E-08	6.108E-09	3.951E-09	2.866E-09
W	1.510E-06	3.390E-07	1.038E-07	5.210E-08	3.223E-08	1.419E-08	5.045E-09	2.478E-09	1.573E-09	1.125E-09
WNW	2.918E-06	6.469E-07	1.870E-07	9.063E-08	5.460E-08	2.301E-08	7.588E-09	3.514E-09	2.147E-09	1.492E-09
NW	7.651E-06	1.749E-06	5.490E-07	2.798E-07	1.750E-07	7.847E-08	2.871E-08	1.438E-08	9.229E-09	6.654E-09
NNW	8.000E-06	1.883E-06	6.191E-07	3.237E-07	2.060E-07	9.505E-08	3.631E-08	1.876E-08	1.226E-08	8.950E-09
N	1.586E-05	3.768E-06	1.236E-06	6.454E-07	4.104E-07	1.890E-07	7.195E-08	3.705E-08	2.416E-08	1.761E-08
NNE	7.663E-06	1.793E-06	5.746E-07	2.964E-07	1.869E-07	8.494E-08	3.172E-08	1.612E-08	1.043E-08	7.560E-09
NE	3.863E-06	9.063E-07	2.932E-07	1.520E-07	9.618E-08	4.396E-08	1.655E-08	8.452E-09	5.484E-09	3.984E-09
ENE	2.109E-06	4.831E-07	1.513E-07	7.706E-08	4.816E-08	2.159E-08	7.899E-09	3.958E-09	2.541E-09	1.832E-09
E	2.744E-06	6.448E-07	1.998E-07	1.010E-07	6.274E-08	2.781E-08	9.958E-09	4.895E-09	3.101E-09	2.213E-09
ESE	2.749E-06	6.389E-07	1.960E-07	9.856E-08	6.103E-08	2.693E-08	9.594E-09	4.703E-09	2.975E-09	2.121E-09
SE	5.138E-06	1.217E-06	3.827E-07	1.951E-07	1.220E-07	5.467E-08	1.993E-08	9.933E-09	6.345E-09	4.556E-09
SSE	7.326E-06	1.695E-06	5.297E-07	2.692E-07	1.680E-07	7.509E-08	2.733E-08	1.363E-08	8.719E-09	6.271E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	5.710E-05	1.987E-05	1.066E-05	5.310E-06	2.082E-06	1.107E-06	6.918E-07	4.770E-07	3.515E-07	2.715E-07	2.173E-07
SSW	3.184E-05	1.126E-05	6.023E-06	2.986E-06	1.158E-06	6.106E-07	3.790E-07	2.599E-07	1.906E-07	1.466E-07	1.169E-07
SW	1.590E-05	5.697E-06	3.048E-06	1.508E-06	5.828E-07	3.068E-07	1.901E-07	1.302E-07	9.539E-08	7.333E-08	5.843E-08
WSW	1.827E-05	5.986E-06	3.090E-06	1.521E-06	6.134E-07	3.329E-07	2.113E-07	1.476E-07	1.100E-07	8.579E-08	6.925E-08
W	8.657E-06	2.961E-06	1.539E-06	7.549E-07	2.971E-07	1.585E-07	9.925E-08	6.857E-08	5.062E-08	3.917E-08	3.140E-08
WNW	1.572E-05	5.642E-06	3.002E-06	1.476E-06	5.599E-07	2.907E-07	1.782E-07	1.210E-07	8.797E-08	6.717E-08	5.321E-08
NW	4.443E-05	1.493E-05	7.800E-06	3.852E-06	1.541E-06	8.316E-07	5.255E-07	3.658E-07	2.717E-07	2.113E-07	1.702E-07
NNW	4.992E-05	1.559E-05	8.117E-06	4.054E-06	1.675E-06	9.234E-07	5.928E-07	4.178E-07	3.136E-07	2.461E-07	1.997E-07
N	9.795E-05	3.064E-05	1.615E-05	8.117E-06	3.349E-06	1.845E-06	1.183E-06	8.336E-07	6.252E-07	4.904E-07	3.978E-07
NNE	4.573E-05	1.482E-05	7.825E-06	3.909E-06	1.587E-06	8.649E-07	5.507E-07	3.856E-07	2.878E-07	2.249E-07	1.818E-07
NE	2.316E-05	7.482E-06	3.939E-06	1.966E-06	8.030E-07	4.394E-07	2.806E-07	1.969E-07	1.473E-07	1.152E-07	9.326E-08
ENE	1.231E-05	4.105E-06	2.151E-06	1.064E-06	4.249E-07	2.290E-07	1.446E-07	1.006E-07	7.465E-08	5.804E-08	4.672E-08
E	1.532E-05	5.207E-06	2.832E-06	1.426E-06	5.660E-07	3.035E-07	1.908E-07	1.322E-07	9.777E-08	7.579E-08	6.084E-08
ESE	1.531E-05	5.242E-06	2.836E-06	1.421E-06	5.604E-07	2.993E-07	1.876E-07	1.297E-07	9.581E-08	7.418E-08	5.950E-08
SE	2.914E-05	9.746E-06	5.300E-06	2.676E-06	1.072E-06	5.791E-07	3.660E-07	2.548E-07	1.892E-07	1.472E-07	1.185E-07
SSE	4.259E-05	1.414E-05	7.500E-06	3.739E-06	1.492E-06	8.032E-07	5.066E-07	3.521E-07	2.611E-07	2.029E-07	1.633E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.788E-07	8.960E-08	5.684E-08	3.144E-08	2.063E-08	1.483E-08	1.130E-08	8.955E-09	7.306E-09	6.094E-09	5.171E-09
SSW	9.591E-08	4.744E-08	2.982E-08	1.629E-08	1.060E-08	7.572E-09	5.739E-09	4.530E-09	3.682E-09	3.062E-09	2.591E-09
SW	4.789E-08	2.363E-08	1.483E-08	8.077E-09	5.242E-09	3.737E-09	2.827E-09	2.228E-09	1.808E-09	1.501E-09	1.269E-09
WSW	5.743E-08	2.967E-08	1.924E-08	1.096E-08	7.337E-09	5.355E-09	4.128E-09	3.303E-09	2.715E-09	2.279E-09	1.944E-09
W	2.587E-08	1.303E-08	8.299E-09	4.625E-09	3.054E-09	2.208E-09	1.689E-09	1.344E-09	1.100E-09	9.201E-10	7.827E-10
WNW	4.339E-08	2.099E-08	1.299E-08	6.950E-09	4.474E-09	3.171E-09	2.389E-09	1.877E-09	1.520E-09	1.260E-09	1.064E-09
NW	1.408E-07	7.208E-08	4.644E-08	2.625E-08	1.748E-08	1.272E-08	9.777E-09	7.808E-09	6.411E-09	5.376E-09	4.583E-09
NNW	1.663E-07	8.718E-08	5.706E-08	3.291E-08	2.219E-08	1.628E-08	1.260E-08	1.011E-08	8.336E-09	7.012E-09	5.994E-09
N	3.311E-07	1.733E-07	1.133E-07	6.525E-08	4.395E-08	3.222E-08	2.492E-08	1.999E-08	1.648E-08	1.386E-08	1.185E-08
NNE	1.509E-07	7.824E-08	5.085E-08	2.910E-08	1.954E-08	1.431E-08	1.107E-08	8.882E-09	7.326E-09	6.169E-09	5.281E-09
NE	7.750E-08	4.030E-08	2.623E-08	1.502E-08	1.008E-08	7.369E-09	5.688E-09	4.556E-09	3.749E-09	3.150E-09	2.690E-09
ENE	3.864E-08	1.975E-08	1.270E-08	7.165E-09	4.763E-09	3.458E-09	2.654E-09	2.116E-09	1.734E-09	1.452E-09	1.236E-09
E	5.018E-08	2.537E-08	1.618E-08	9.011E-09	5.930E-09	4.271E-09	3.257E-09	2.582E-09	2.107E-09	1.757E-09	1.491E-09
ESE	4.905E-08	2.478E-08	1.582E-08	8.836E-09	5.843E-09	4.230E-09	3.242E-09	2.584E-09	2.119E-09	1.776E-09	1.515E-09
SE	9.804E-08	5.011E-08	3.223E-08	1.816E-08	1.206E-08	8.745E-09	6.709E-09	5.348E-09	4.384E-09	3.672E-09	3.128E-09
SSE	1.349E-07	6.884E-08	4.423E-08	2.491E-08	1.654E-08	1.201E-08	9.214E-09	7.348E-09	6.027E-09	5.049E-09	4.302E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.033E-05	2.366E-06	7.167E-07	3.569E-07	2.191E-07	9.487E-08	3.228E-08	1.496E-08	8.997E-09	6.111E-09
SSW	5.838E-06	1.321E-06	3.931E-07	1.936E-07	1.180E-07	5.038E-08	1.677E-08	7.645E-09	4.552E-09	3.071E-09
SW	2.952E-06	6.657E-07	1.973E-07	9.694E-08	5.894E-08	2.511E-08	8.317E-09	3.775E-09	2.239E-09	1.506E-09
WSW	3.036E-06	6.904E-07	2.183E-07	1.115E-07	6.977E-08	3.120E-08	1.119E-08	5.393E-09	3.315E-09	2.284E-09
W	1.506E-06	3.372E-07	1.028E-07	5.139E-08	3.165E-08	1.378E-08	4.743E-09	2.226E-09	1.350E-09	9.226E-10
WNW	2.910E-06	6.438E-07	1.853E-07	8.949E-08	5.371E-08	2.241E-08	7.191E-09	3.206E-09	1.887E-09	1.264E-09
NW	7.629E-06	1.739E-06	5.432E-07	2.756E-07	1.715E-07	7.596E-08	2.684E-08	1.281E-08	7.838E-09	5.389E-09
NNW	7.971E-06	1.870E-06	6.110E-07	3.176E-07	2.011E-07	9.137E-08	3.351E-08	1.639E-08	1.015E-08	7.027E-09
N	1.580E-05	3.740E-06	1.220E-06	6.334E-07	4.005E-07	1.817E-07	6.646E-08	3.243E-08	2.006E-08	1.389E-08
NNE	7.640E-06	1.782E-06	5.684E-07	2.918E-07	1.831E-07	8.222E-08	2.969E-08	1.441E-08	8.913E-09	6.183E-09
NE	3.849E-06	8.999E-07	2.895E-07	1.492E-07	9.393E-08	4.231E-08	1.532E-08	7.419E-09	4.572E-09	3.157E-09
ENE	2.102E-06	4.799E-07	1.495E-07	7.573E-08	4.708E-08	2.081E-08	7.328E-09	3.484E-09	2.124E-09	1.456E-09
E	2.735E-06	6.405E-07	1.974E-07	9.923E-08	6.132E-08	2.680E-08	9.235E-09	4.308E-09	2.594E-09	1.762E-09
ESE	2.742E-06	6.357E-07	1.942E-07	9.726E-08	5.998E-08	2.619E-08	9.058E-09	4.265E-09	2.595E-09	1.781E-09
SE	5.122E-06	1.210E-06	3.783E-07	1.919E-07	1.194E-07	5.281E-08	1.857E-08	8.813E-09	5.370E-09	3.682E-09
SSE	7.304E-06	1.685E-06	5.239E-07	2.649E-07	1.645E-07	7.259E-08	2.548E-08	1.210E-08	7.378E-09	5.062E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	5.408E-05	1.817E-05	9.524E-06	4.661E-06	1.776E-06	9.224E-07	5.646E-07	3.824E-07	2.772E-07	2.110E-07	1.666E-07
SSW	3.015E-05	1.030E-05	5.378E-06	2.621E-06	9.872E-07	5.084E-07	3.092E-07	2.082E-07	1.502E-07	1.139E-07	8.958E-08
SW	1.506E-05	5.210E-06	2.722E-06	1.324E-06	4.972E-07	2.556E-07	1.552E-07	1.044E-07	7.522E-08	5.697E-08	4.478E-08
WSW	1.731E-05	5.476E-06	2.761E-06	1.336E-06	5.235E-07	2.775E-07	1.726E-07	1.185E-07	8.686E-08	6.677E-08	5.319E-08
W	8.199E-06	2.708E-06	1.374E-06	6.626E-07	2.534E-07	1.320E-07	8.096E-08	5.493E-08	3.989E-08	3.041E-08	2.405E-08
WNW	1.489E-05	5.159E-06	2.680E-06	1.295E-06	4.773E-07	2.420E-07	1.453E-07	9.687E-08	6.928E-08	5.211E-08	4.071E-08
NW	4.208E-05	1.365E-05	6.967E-06	3.382E-06	1.315E-06	6.929E-07	4.290E-07	2.933E-07	2.143E-07	1.643E-07	1.306E-07
NNW	4.729E-05	1.426E-05	7.254E-06	3.562E-06	1.431E-06	7.705E-07	4.849E-07	3.358E-07	2.480E-07	1.919E-07	1.537E-07
N	9.279E-05	2.803E-05	1.443E-05	7.132E-06	2.861E-06	1.539E-06	9.680E-07	6.699E-07	4.945E-07	3.824E-07	3.061E-07
NNE	4.331E-05	1.356E-05	6.990E-06	3.432E-06	1.354E-06	7.207E-07	4.496E-07	3.092E-07	2.271E-07	1.749E-07	1.395E-07
NE	2.194E-05	6.845E-06	3.519E-06	1.727E-06	6.858E-07	3.666E-07	2.294E-07	1.582E-07	1.164E-07	8.980E-08	7.173E-08
ENE	1.166E-05	3.755E-06	1.921E-06	9.345E-07	3.628E-07	1.910E-07	1.182E-07	8.075E-08	5.899E-08	4.520E-08	3.590E-08
E	1.451E-05	4.763E-06	2.530E-06	1.253E-06	4.833E-07	2.531E-07	1.559E-07	1.061E-07	7.727E-08	5.903E-08	4.676E-08
ESE	1.450E-05	4.793E-06	2.533E-06	1.247E-06	4.778E-07	2.491E-07	1.530E-07	1.039E-07	7.548E-08	5.758E-08	4.555E-08
SE	2.760E-05	8.914E-06	4.734E-06	2.350E-06	9.153E-07	4.827E-07	2.990E-07	2.044E-07	1.494E-07	1.145E-07	9.100E-08
SSE	4.034E-05	1.293E-05	6.699E-06	3.283E-06	1.273E-06	6.694E-07	4.137E-07	2.824E-07	2.061E-07	1.578E-07	1.253E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.354E-07	6.466E-08	3.941E-08	2.050E-08	1.284E-08	8.884E-09	6.553E-09	5.050E-09	4.019E-09	3.278E-09	2.725E-09
SSW	7.254E-08	3.419E-08	2.064E-08	1.059E-08	6.573E-09	4.518E-09	3.314E-09	2.541E-09	2.014E-09	1.637E-09	1.356E-09
SW	3.624E-08	1.705E-08	1.027E-08	5.260E-09	3.256E-09	2.234E-09	1.636E-09	1.253E-09	9.919E-10	8.052E-10	6.667E-10
WSW	4.356E-08	2.148E-08	1.339E-08	7.193E-09	4.604E-09	3.242E-09	2.425E-09	1.891E-09	1.521E-09	1.252E-09	1.049E-09
W	1.956E-08	9.388E-09	5.745E-09	3.010E-09	1.897E-09	1.320E-09	9.785E-10	7.573E-10	6.051E-10	4.952E-10	4.132E-10
WNW	3.277E-08	1.510E-08	8.961E-09	4.498E-09	2.755E-09	1.875E-09	1.364E-09	1.039E-09	8.188E-10	6.620E-10	5.462E-10
NW	1.067E-07	5.207E-08	3.224E-08	1.716E-08	1.091E-08	7.649E-09	5.700E-09	4.432E-09	3.554E-09	2.918E-09	2.441E-09
NNW	1.264E-07	6.329E-08	3.987E-08	2.170E-08	1.401E-08	9.929E-09	7.463E-09	5.842E-09	4.711E-09	3.887E-09	3.265E-09
N	2.517E-07	1.258E-07	7.915E-08	4.300E-08	2.772E-08	1.962E-08	1.473E-08	1.152E-08	9.285E-09	7.656E-09	6.428E-09
NNE	1.143E-07	5.651E-08	3.529E-08	1.900E-08	1.218E-08	8.585E-09	6.427E-09	5.016E-09	4.036E-09	3.323E-09	2.787E-09
NE	5.887E-08	2.923E-08	1.831E-08	9.886E-09	6.347E-09	4.478E-09	3.354E-09	2.619E-09	2.107E-09	1.735E-09	1.455E-09
ENE	2.933E-08	1.431E-08	8.854E-09	4.709E-09	2.994E-09	2.098E-09	1.563E-09	1.214E-09	9.733E-10	7.988E-10	6.680E-10
E	3.810E-08	1.838E-08	1.128E-08	5.922E-09	3.728E-09	2.590E-09	1.916E-09	1.479E-09	1.179E-09	9.630E-10	8.016E-10
ESE	3.707E-08	1.784E-08	1.093E-08	5.732E-09	3.610E-09	2.510E-09	1.859E-09	1.437E-09	1.147E-09	9.382E-10	7.821E-10
SE	7.434E-08	3.625E-08	2.242E-08	1.189E-08	7.542E-09	5.271E-09	3.918E-09	3.039E-09	2.431E-09	1.992E-09	1.663E-09
SSE	1.023E-07	4.977E-08	3.074E-08	1.630E-08	1.034E-08	7.235E-09	5.382E-09	4.177E-09	3.345E-09	2.743E-09	2.291E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.285E-06	2.038E-06	5.871E-07	2.820E-07	1.682E-07	6.915E-08	2.130E-08	9.005E-09	5.087E-09	3.293E-09
SSW	5.246E-06	1.137E-06	3.219E-07	1.529E-07	9.047E-08	3.669E-08	1.104E-08	4.584E-09	2.561E-09	1.645E-09
SW	2.653E-06	5.734E-07	1.616E-07	7.660E-08	4.523E-08	1.830E-08	5.483E-09	2.267E-09	1.263E-09	8.092E-10
WSW	2.731E-06	5.947E-07	1.789E-07	8.824E-08	5.365E-08	2.279E-08	7.419E-09	3.278E-09	1.903E-09	1.256E-09
W	1.354E-06	2.904E-07	8.415E-08	4.058E-08	2.427E-08	1.003E-08	3.123E-09	1.337E-09	7.625E-10	4.974E-10
WNW	2.615E-06	5.545E-07	1.517E-07	7.062E-08	4.115E-08	1.630E-08	4.715E-09	1.906E-09	1.048E-09	6.656E-10
NW	6.859E-06	1.498E-06	4.451E-07	2.178E-07	1.317E-07	5.539E-08	1.773E-08	7.740E-09	4.460E-09	2.930E-09
NNW	7.170E-06	1.611E-06	5.014E-07	2.517E-07	1.549E-07	6.691E-08	2.232E-08	1.003E-08	5.874E-09	3.901E-09
N	1.421E-05	3.223E-06	1.001E-06	5.019E-07	3.085E-07	1.330E-07	4.424E-08	1.982E-08	1.159E-08	7.684E-09
NNE	6.868E-06	1.534E-06	4.658E-07	2.307E-07	1.407E-07	5.993E-08	1.959E-08	8.680E-09	5.046E-09	3.336E-09
NE	3.462E-06	7.754E-07	2.375E-07	1.182E-07	7.232E-08	3.096E-08	1.018E-08	4.527E-09	2.634E-09	1.741E-09
ENE	1.890E-06	4.135E-07	1.226E-07	5.996E-08	3.622E-08	1.522E-08	4.868E-09	2.123E-09	1.222E-09	8.021E-10
E	2.459E-06	5.520E-07	1.619E-07	7.857E-08	4.719E-08	1.961E-08	6.138E-09	2.624E-09	1.490E-09	9.673E-10
ESE	2.464E-06	5.472E-07	1.590E-07	7.678E-08	4.598E-08	1.904E-08	5.944E-09	2.543E-09	1.447E-09	9.423E-10
SE	4.604E-06	1.042E-06	3.102E-07	1.518E-07	9.180E-08	3.857E-08	1.230E-08	5.335E-09	3.058E-09	2.000E-09
SSE	6.566E-06	1.451E-06	4.294E-07	2.095E-07	1.264E-07	5.298E-08	1.686E-08	7.323E-09	4.204E-09	2.754E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.146E-07	1.064E-07	5.462E-08	2.597E-08	9.328E-09	4.626E-09	2.724E-09	1.784E-09	1.255E-09	9.301E-10	7.167E-10
SSW	1.777E-07	6.008E-08	3.085E-08	1.467E-08	5.268E-09	2.612E-09	1.538E-09	1.007E-09	7.087E-10	5.252E-10	4.048E-10
SW	7.943E-08	2.686E-08	1.379E-08	6.557E-09	2.355E-09	1.168E-09	6.877E-10	4.503E-10	3.169E-10	2.348E-10	1.810E-10
WSW	6.401E-08	2.164E-08	1.111E-08	5.283E-09	1.898E-09	9.412E-10	5.542E-10	3.629E-10	2.553E-10	1.892E-10	1.458E-10
W	4.300E-08	1.454E-08	7.466E-09	3.549E-09	1.275E-09	6.323E-10	3.723E-10	2.438E-10	1.715E-10	1.271E-10	9.796E-11
WNW	1.136E-07	3.841E-08	1.972E-08	9.376E-09	3.368E-09	1.670E-09	9.834E-10	6.439E-10	4.531E-10	3.358E-10	2.588E-10
NW	1.920E-07	6.491E-08	3.333E-08	1.585E-08	5.692E-09	2.823E-09	1.662E-09	1.088E-09	7.657E-10	5.675E-10	4.373E-10
NNW	1.339E-07	4.529E-08	2.326E-08	1.106E-08	3.971E-09	1.970E-09	1.160E-09	7.594E-10	5.343E-10	3.960E-10	3.052E-10
N	2.624E-07	8.874E-08	4.556E-08	2.166E-08	7.781E-09	3.859E-09	2.272E-09	1.488E-09	1.047E-09	7.758E-10	5.978E-10
NNE	1.943E-07	6.570E-08	3.374E-08	1.604E-08	5.761E-09	2.857E-09	1.682E-09	1.102E-09	7.751E-10	5.744E-10	4.427E-10
NE	8.401E-08	2.841E-08	1.459E-08	6.935E-09	2.491E-09	1.235E-09	7.274E-10	4.763E-10	3.351E-10	2.484E-10	1.914E-10
ENE	4.416E-08	1.493E-08	7.668E-09	3.645E-09	1.309E-09	6.494E-10	3.824E-10	2.504E-10	1.762E-10	1.306E-10	1.006E-10
E	6.967E-08	2.356E-08	1.210E-08	5.750E-09	2.066E-09	1.024E-09	6.032E-10	3.949E-10	2.779E-10	2.060E-10	1.587E-10
ESE	1.082E-07	3.657E-08	1.878E-08	8.927E-09	3.207E-09	1.590E-09	9.364E-10	6.131E-10	4.314E-10	3.197E-10	2.464E-10
SE	1.679E-07	5.679E-08	2.916E-08	1.386E-08	4.980E-09	2.470E-09	1.454E-09	9.521E-10	6.700E-10	4.965E-10	3.826E-10
SSE	2.672E-07	9.035E-08	4.639E-08	2.205E-08	7.922E-09	3.929E-09	2.313E-09	1.515E-09	1.066E-09	7.899E-10	6.087E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	5.694E-10	2.529E-10	1.532E-10	7.745E-11	4.687E-11	3.143E-11	2.252E-11	1.691E-11	1.315E-11	1.050E-11	8.573E-12
SSW	3.216E-10	1.428E-10	8.653E-11	4.374E-11	2.647E-11	1.775E-11	1.272E-11	9.550E-12	7.425E-12	5.931E-12	4.841E-12
SW	1.438E-10	6.387E-11	3.869E-11	1.955E-11	1.184E-11	7.935E-12	5.686E-12	4.270E-12	3.320E-12	2.652E-12	2.164E-12
WSW	1.158E-10	5.146E-11	3.117E-11	1.576E-11	9.537E-12	6.394E-12	4.582E-12	3.440E-12	2.675E-12	2.137E-12	1.744E-12
W	7.783E-11	3.457E-11	2.094E-11	1.059E-11	6.407E-12	4.296E-12	3.078E-12	2.311E-12	1.797E-12	1.436E-12	1.172E-12
WNW	2.056E-10	9.133E-11	5.532E-11	2.796E-11	1.692E-11	1.135E-11	8.131E-12	6.105E-12	4.747E-12	3.792E-12	3.095E-12
NW	3.474E-10	1.543E-10	9.349E-11	4.725E-11	2.860E-11	1.918E-11	1.374E-11	1.032E-11	8.022E-12	6.408E-12	5.231E-12
NNW	2.424E-10	1.077E-10	6.524E-11	3.297E-11	1.996E-11	1.338E-11	9.588E-12	7.200E-12	5.598E-12	4.472E-12	3.650E-12
N	4.749E-10	2.110E-10	1.278E-10	6.460E-11	3.910E-11	2.621E-11	1.878E-11	1.410E-11	1.097E-11	8.760E-12	7.151E-12
NNE	3.517E-10	1.562E-10	9.463E-11	4.783E-11	2.895E-11	1.941E-11	1.391E-11	1.044E-11	8.120E-12	6.487E-12	5.294E-12
NE	1.521E-10	6.755E-11	4.092E-11	2.068E-11	1.252E-11	8.393E-12	6.014E-12	4.516E-12	3.511E-12	2.805E-12	2.289E-12
ENE	7.993E-11	3.551E-11	2.151E-11	1.087E-11	6.580E-12	4.412E-12	3.161E-12	2.374E-12	1.846E-12	1.474E-12	1.203E-12
E	1.261E-10	5.601E-11	3.393E-11	1.715E-11	1.038E-11	6.959E-12	4.987E-12	3.745E-12	2.911E-12	2.326E-12	1.898E-12
ESE	1.957E-10	8.696E-11	5.267E-11	2.662E-11	1.611E-11	1.080E-11	7.742E-12	5.813E-12	4.520E-12	3.611E-12	2.947E-12
SE	3.040E-10	1.350E-10	8.180E-11	4.134E-11	2.502E-11	1.678E-11	1.202E-11	9.027E-12	7.019E-12	5.607E-12	4.576E-12
SSE	4.836E-10	2.148E-10	1.301E-10	6.577E-11	3.981E-11	2.669E-11	1.913E-11	1.436E-11	1.117E-11	8.920E-12	7.280E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.339E-08	1.094E-08	2.855E-09	1.282E-09	7.254E-10	2.789E-10	8.070E-11	3.198E-11	1.708E-11	1.057E-11
SSW	3.015E-08	6.176E-09	1.612E-09	7.241E-10	4.096E-10	1.575E-10	4.557E-11	1.806E-11	9.645E-12	5.970E-12
SW	1.348E-08	2.761E-09	7.208E-10	3.237E-10	1.831E-10	7.043E-11	2.038E-11	8.075E-12	4.312E-12	2.669E-12
WSW	1.086E-08	2.225E-09	5.808E-10	2.609E-10	1.476E-10	5.675E-11	1.642E-11	6.507E-12	3.475E-12	2.151E-12
W	7.298E-09	1.495E-09	3.902E-10	1.753E-10	9.915E-11	3.813E-11	1.103E-11	4.372E-12	2.335E-12	1.445E-12
WNW	1.928E-08	3.948E-09	1.031E-09	4.629E-10	2.619E-10	1.007E-10	2.914E-11	1.155E-11	6.167E-12	3.817E-12
NW	3.258E-08	6.673E-09	1.742E-09	7.824E-10	4.426E-10	1.702E-10	4.924E-11	1.952E-11	1.042E-11	6.450E-12
NNW	2.273E-08	4.656E-09	1.216E-09	5.459E-10	3.088E-10	1.188E-10	3.436E-11	1.362E-11	7.272E-12	4.501E-12
N	4.453E-08	9.122E-09	2.381E-09	1.070E-09	6.050E-10	2.327E-10	6.731E-11	2.668E-11	1.425E-11	8.818E-12
NNE	3.297E-08	6.754E-09	1.763E-09	7.919E-10	4.480E-10	1.723E-10	4.984E-11	1.975E-11	1.055E-11	6.529E-12
NE	1.426E-08	2.920E-09	7.624E-10	3.424E-10	1.937E-10	7.449E-11	2.155E-11	8.541E-12	4.561E-12	2.823E-12
ENE	7.495E-09	1.535E-09	4.008E-10	1.800E-10	1.018E-10	3.916E-11	1.133E-11	4.490E-12	2.398E-12	1.484E-12
E	1.182E-08	2.422E-09	6.322E-10	2.839E-10	1.606E-10	6.177E-11	1.787E-11	7.082E-12	3.782E-12	2.341E-12
ESE	1.835E-08	3.760E-09	9.815E-10	4.408E-10	2.494E-10	9.589E-11	2.774E-11	1.100E-11	5.872E-12	3.634E-12
SE	2.850E-08	5.838E-09	1.524E-09	6.845E-10	3.872E-10	1.489E-10	4.308E-11	1.707E-11	9.118E-12	5.644E-12
SSE	4.534E-08	9.288E-09	2.425E-09	1.089E-09	6.160E-10	2.369E-10	6.854E-11	2.716E-11	1.451E-11	8.978E-12

VENTS GROUND LEVEL RELEASES - JAN-MAR 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	9.2E-06	9.2E-06	8.2E-06	4.6E-08
A	Site Boundary	SSW	.82	4.8E-06	4.8E-06	4.3E-06	2.4E-08
A	Site Boundary	SW	.97	1.6E-06	1.6E-06	1.4E-06	7.0E-09
A	Site Boundary	WSW	.93	1.8E-06	1.8E-06	1.6E-06	6.5E-09
A	Site Boundary	W	.91	9.5E-07	9.4E-07	8.3E-07	4.5E-09
A	Site Boundary	WNW	.94	1.7E-06	1.7E-06	1.5E-06	1.1E-08
A	Site Boundary	NW	.81	6.5E-06	6.4E-06	5.7E-06	2.7E-08
A	Site Boundary	NNW	.69	9.3E-06	9.3E-06	8.3E-06	2.7E-08
A	Site Boundary	N	.67	1.9E-05	1.9E-05	1.7E-05	5.4E-08
A	Site Boundary	NNE	.60	1.1E-05	1.1E-05	1.0E-05	4.9E-08
A	Site Boundary	NE	.62	5.3E-06	5.2E-06	4.7E-06	2.0E-08
A	Site Boundary	ENE	.59	3.2E-06	3.2E-06	2.9E-06	1.1E-08
A	Site Boundary	E	.53	4.8E-06	4.8E-06	4.4E-06	2.2E-08
A	Site Boundary	ESE	.54	4.7E-06	4.7E-06	4.3E-06	3.3E-08
A	Site Boundary	SE	.65	6.6E-06	6.6E-06	5.9E-06	3.7E-08
A	Site Boundary	SSE	.81	6.2E-06	6.2E-06	5.5E-06	3.8E-08
A	Nearest Res	SW	1.30	8.1E-07	8.1E-07	7.0E-07	3.4E-09
A	Nearest Res	WSW	1.30	8.5E-07	8.4E-07	7.2E-07	2.7E-09
A	Nearest Res	W	1.00	7.6E-07	7.6E-07	6.6E-07	3.6E-09
A	Nearest Res	WNW	1.70	4.2E-07	4.2E-07	3.5E-07	2.5E-09
A	Nearest Res	NW	.90	5.0E-06	5.0E-06	4.4E-06	2.1E-08
A	Nearest Res	NNW	1.90	1.0E-06	1.0E-06	8.6E-07	2.2E-09
A	Nearest Res	N	3.00	8.5E-07	8.3E-07	6.7E-07	1.5E-09
A	Nearest Res	ENE	1.70	3.3E-07	3.2E-07	2.7E-07	9.6E-10
A	Nearest Res	E	1.90	3.4E-07	3.4E-07	2.8E-07	1.2E-09
A	Nearest Res	ESE	2.30	2.2E-07	2.2E-07	1.8E-07	1.1E-09
A	Nearest Res	SE	3.20	2.3E-07	2.2E-07	1.8E-07	8.2E-10
A	Nearest Cow	NNW	3.50	3.2E-07	3.1E-07	2.5E-07	5.3E-10
A	Nearest Garde	SW	2.20	2.5E-07	2.5E-07	2.1E-07	9.3E-10
A	Nearest Garde	WSW	1.90	3.7E-07	3.7E-07	3.1E-07	1.1E-09
A	Nearest Garde	WNW	2.40	2.0E-07	1.9E-07	1.6E-07	1.1E-09
A	Nearest Garde	ESE	3.00	1.3E-07	1.3E-07	1.0E-07	6.1E-10
A	Nearest Garde	SE	3.50	1.9E-07	1.9E-07	1.5E-07	6.7E-10

Atmospheric Diffusion Estimates

Ground Level Releases

April-June 2005

VENTS GROUND LEVEL RELEASES - APR-JUN 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.835E-05	1.219E-05	6.597E-06	3.356E-06	1.376E-06	7.551E-07	4.833E-07	3.400E-07	2.549E-07	1.999E-07	1.622E-07
SSW	1.851E-05	6.054E-06	3.215E-06	1.608E-06	6.459E-07	3.497E-07	2.217E-07	1.548E-07	1.153E-07	8.994E-08	7.264E-08
SW	1.045E-05	3.511E-06	1.865E-06	9.271E-07	3.711E-07	2.006E-07	1.270E-07	8.861E-08	6.597E-08	5.145E-08	4.154E-08
WSW	1.087E-05	3.620E-06	1.869E-06	9.184E-07	3.677E-07	1.987E-07	1.257E-07	8.764E-08	6.521E-08	5.083E-08	4.102E-08
W	1.071E-05	3.842E-06	2.078E-06	1.034E-06	3.997E-07	2.104E-07	1.304E-07	8.937E-08	6.552E-08	5.041E-08	4.021E-08
WNW	1.080E-05	3.821E-06	2.035E-06	1.002E-06	3.816E-07	1.989E-07	1.224E-07	8.342E-08	6.086E-08	4.664E-08	3.707E-08
NW	2.860E-05	9.918E-06	5.293E-06	2.621E-06	1.021E-06	5.412E-07	3.375E-07	2.326E-07	1.713E-07	1.324E-07	1.060E-07
NNW	5.701E-05	1.824E-05	9.550E-06	4.755E-06	1.942E-06	1.064E-06	6.808E-07	4.789E-07	3.590E-07	2.816E-07	2.285E-07
N	6.232E-05	2.023E-05	1.071E-05	5.348E-06	2.162E-06	1.176E-06	7.482E-07	5.240E-07	3.913E-07	3.060E-07	2.476E-07
NNE	4.268E-05	1.378E-05	7.325E-06	3.675E-06	1.493E-06	8.147E-07	5.196E-07	3.645E-07	2.726E-07	2.134E-07	1.729E-07
NE	2.279E-05	7.108E-06	3.718E-06	1.863E-06	7.721E-07	4.271E-07	2.751E-07	1.945E-07	1.464E-07	1.152E-07	9.381E-08
ENE	1.082E-05	3.431E-06	1.821E-06	9.170E-07	3.744E-07	2.049E-07	1.310E-07	9.201E-08	6.890E-08	5.399E-08	4.378E-08
E	1.577E-05	5.336E-06	2.948E-06	1.501E-06	5.995E-07	3.230E-07	2.039E-07	1.419E-07	1.053E-07	8.195E-08	6.601E-08
ESE	1.896E-05	6.222E-06	3.374E-06	1.704E-06	6.813E-07	3.677E-07	2.325E-07	1.620E-07	1.205E-07	9.385E-08	7.570E-08
SE	3.784E-05	1.163E-05	6.038E-06	3.017E-06	1.247E-06	6.888E-07	4.432E-07	3.131E-07	2.356E-07	1.854E-07	1.508E-07
SSE	3.941E-05	1.261E-05	6.691E-06	3.360E-06	1.370E-06	7.496E-07	4.789E-07	3.364E-07	2.519E-07	1.974E-07	1.600E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.351E-07	7.104E-08	4.679E-08	2.743E-08	1.885E-08	1.412E-08	1.116E-08	9.159E-09	7.721E-09	6.643E-09	5.810E-09
SSW	6.027E-08	3.127E-08	2.041E-08	1.184E-08	8.090E-09	6.034E-09	4.755E-09	3.892E-09	3.274E-09	2.812E-09	2.455E-09
SW	3.446E-08	1.789E-08	1.168E-08	6.775E-09	4.630E-09	3.454E-09	2.722E-09	2.228E-09	1.874E-09	1.610E-09	1.406E-09
WSW	3.400E-08	1.758E-08	1.145E-08	6.629E-09	4.525E-09	3.374E-09	2.658E-09	2.176E-09	1.831E-09	1.573E-09	1.374E-09
W	3.299E-08	1.637E-08	1.035E-08	5.728E-09	3.787E-09	2.752E-09	2.122E-09	1.705E-09	1.412E-09	1.195E-09	1.030E-09
WNW	3.034E-08	1.495E-08	9.403E-09	5.181E-09	3.424E-09	2.488E-09	1.919E-09	1.542E-09	1.277E-09	1.082E-09	9.330E-10
NW	8.735E-08	4.413E-08	2.826E-08	1.598E-08	1.074E-08	7.905E-09	6.165E-09	5.000E-09	4.174E-09	3.562E-09	3.092E-09
NNW	1.904E-07	1.005E-07	6.638E-08	3.911E-08	2.699E-08	2.029E-08	1.608E-08	1.323E-08	1.118E-08	9.640E-09	8.446E-09
N	2.058E-07	1.076E-07	7.060E-08	4.123E-08	2.829E-08	2.117E-08	1.673E-08	1.372E-08	1.156E-08	9.949E-09	8.700E-09
NNE	1.438E-07	7.542E-08	4.958E-08	2.903E-08	1.994E-08	1.493E-08	1.181E-08	9.687E-09	8.167E-09	7.028E-09	6.148E-09
NE	7.836E-08	4.169E-08	2.768E-08	1.643E-08	1.139E-08	8.592E-09	6.832E-09	5.632E-09	4.768E-09	4.118E-09	3.613E-09
ENE	3.644E-08	1.914E-08	1.260E-08	7.390E-09	5.085E-09	3.812E-09	3.017E-09	2.477E-09	2.090E-09	1.800E-09	1.575E-09
E	5.462E-08	2.803E-08	1.814E-08	1.038E-08	7.013E-09	5.184E-09	4.054E-09	3.295E-09	2.756E-09	2.354E-09	2.046E-09
ESE	6.273E-08	3.240E-08	2.108E-08	1.217E-08	8.296E-09	6.174E-09	4.856E-09	3.967E-09	3.332E-09	2.858E-09	2.492E-09
SE	1.260E-07	6.706E-08	4.455E-08	2.647E-08	1.838E-08	1.388E-08	1.105E-08	9.115E-09	7.722E-09	6.674E-09	5.860E-09
SSE	1.332E-07	7.004E-08	4.612E-08	2.706E-08	1.862E-08	1.396E-08	1.104E-08	9.069E-09	7.651E-09	6.588E-09	5.766E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.400E-06	1.540E-06	4.985E-07	2.582E-07	1.633E-07	7.448E-08	2.792E-08	1.420E-08	9.184E-09	6.654E-09
SSW	3.132E-06	7.281E-07	2.291E-07	1.169E-07	7.318E-08	3.289E-08	1.208E-08	6.071E-09	3.903E-09	2.817E-09
SW	1.814E-06	4.189E-07	1.313E-07	6.691E-08	4.186E-08	1.881E-08	6.911E-09	3.475E-09	2.235E-09	1.613E-09
WSW	1.836E-06	4.149E-07	1.299E-07	6.614E-08	4.132E-08	1.851E-08	6.766E-09	3.395E-09	2.182E-09	1.576E-09
W	2.006E-06	4.566E-07	1.353E-07	6.658E-08	4.056E-08	1.739E-08	5.891E-09	2.776E-09	1.713E-09	1.198E-09
WNW	1.973E-06	4.383E-07	1.272E-07	6.189E-08	3.741E-08	1.590E-08	5.338E-09	2.510E-09	1.549E-09	1.085E-09
NW	5.134E-06	1.163E-06	3.499E-07	1.740E-07	1.069E-07	4.668E-08	1.638E-08	7.964E-09	5.018E-09	3.569E-09
NNW	9.349E-06	2.177E-06	7.022E-07	3.637E-07	2.301E-07	1.053E-07	3.978E-08	2.039E-08	1.326E-08	9.654E-09
N	1.044E-05	2.432E-06	7.726E-07	3.967E-07	2.494E-07	1.130E-07	4.201E-08	2.129E-08	1.376E-08	9.964E-09
NNE	7.137E-06	1.676E-06	5.363E-07	2.763E-07	1.741E-07	7.914E-08	2.956E-08	1.502E-08	9.713E-09	7.039E-09
NE	3.647E-06	8.611E-07	2.834E-07	1.483E-07	9.444E-08	4.361E-08	1.669E-08	8.634E-09	5.646E-09	4.124E-09
ENE	1.777E-06	4.197E-07	1.351E-07	6.982E-08	4.409E-08	2.008E-08	7.523E-09	3.833E-09	2.484E-09	1.803E-09
E	2.836E-06	6.769E-07	2.109E-07	1.069E-07	6.651E-08	2.954E-08	1.061E-08	5.220E-09	3.306E-09	2.359E-09
ESE	3.264E-06	7.692E-07	2.404E-07	1.222E-07	7.627E-08	3.411E-08	1.243E-08	6.213E-09	3.979E-09	2.863E-09
SE	5.938E-06	1.392E-06	4.567E-07	2.386E-07	1.519E-07	7.015E-08	2.689E-08	1.395E-08	9.136E-09	6.683E-09
SSE	6.526E-06	1.537E-06	4.941E-07	2.553E-07	1.612E-07	7.345E-08	2.754E-08	1.403E-08	9.093E-09	6.598E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.830E-05	1.216E-05	6.570E-06	3.338E-06	1.365E-06	7.468E-07	4.766E-07	3.344E-07	2.499E-07	1.954E-07	1.581E-07
SSW	1.848E-05	6.038E-06	3.203E-06	1.600E-06	6.408E-07	3.460E-07	2.187E-07	1.523E-07	1.131E-07	8.799E-08	7.086E-08
SW	1.044E-05	3.503E-06	1.858E-06	9.231E-07	3.686E-07	1.988E-07	1.256E-07	8.738E-08	6.489E-08	5.048E-08	4.066E-08
WSW	1.086E-05	3.612E-06	1.863E-06	9.147E-07	3.654E-07	1.969E-07	1.243E-07	8.648E-08	6.419E-08	4.991E-08	4.018E-08
W	1.070E-05	3.836E-06	2.073E-06	1.031E-06	3.977E-07	2.090E-07	1.293E-07	8.846E-08	6.473E-08	4.972E-08	3.959E-08
WNW	1.080E-05	3.816E-06	2.031E-06	9.995E-07	3.802E-07	1.979E-07	1.217E-07	8.279E-08	6.033E-08	4.617E-08	3.665E-08
NW	2.858E-05	9.904E-06	5.283E-06	2.614E-06	1.017E-06	5.381E-07	3.351E-07	2.305E-07	1.696E-07	1.308E-07	1.046E-07
NNW	5.694E-05	1.819E-05	9.516E-06	4.732E-06	1.928E-06	1.054E-06	6.722E-07	4.716E-07	3.526E-07	2.758E-07	2.232E-07
N	6.225E-05	2.019E-05	1.068E-05	5.326E-06	2.148E-06	1.166E-06	7.400E-07	5.170E-07	3.852E-07	3.005E-07	2.426E-07
NNE	4.263E-05	1.375E-05	7.302E-06	3.659E-06	1.483E-06	8.074E-07	5.137E-07	3.595E-07	2.682E-07	2.095E-07	1.693E-07
NE	2.275E-05	7.087E-06	3.701E-06	1.852E-06	7.651E-07	4.219E-07	2.709E-07	1.909E-07	1.432E-07	1.124E-07	9.120E-08
ENE	1.081E-05	3.422E-06	1.814E-06	9.123E-07	3.715E-07	2.028E-07	1.292E-07	9.053E-08	6.760E-08	5.283E-08	4.271E-08
E	1.575E-05	5.325E-06	2.939E-06	1.494E-06	5.955E-07	3.202E-07	2.017E-07	1.400E-07	1.037E-07	8.048E-08	6.468E-08
ESE	1.894E-05	6.210E-06	3.364E-06	1.697E-06	6.772E-07	3.647E-07	2.301E-07	1.600E-07	1.187E-07	9.229E-08	7.428E-08
SE	3.778E-05	1.160E-05	6.014E-06	3.001E-06	1.237E-06	6.811E-07	4.370E-07	3.078E-07	2.309E-07	1.812E-07	1.470E-07
SSE	3.936E-05	1.258E-05	6.667E-06	3.344E-06	1.360E-06	7.421E-07	4.728E-07	3.313E-07	2.474E-07	1.933E-07	1.563E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.313E-07	6.805E-08	4.418E-08	2.517E-08	1.681E-08	1.224E-08	9.414E-09	7.515E-09	6.165E-09	5.165E-09	4.398E-09
SSW	5.863E-08	2.999E-08	1.929E-08	1.088E-08	7.224E-09	5.239E-09	4.016E-09	3.198E-09	2.618E-09	2.189E-09	1.861E-09
SW	3.365E-08	1.724E-08	1.112E-08	6.288E-09	4.191E-09	3.050E-09	2.345E-09	1.873E-09	1.538E-09	1.289E-09	1.099E-09
WSW	3.322E-08	1.697E-08	1.091E-08	6.156E-09	4.096E-09	2.977E-09	2.287E-09	1.825E-09	1.498E-09	1.256E-09	1.071E-09
W	3.242E-08	1.594E-08	9.983E-09	5.426E-09	3.521E-09	2.512E-09	1.902E-09	1.501E-09	1.220E-09	1.014E-09	8.587E-10
WNW	2.996E-08	1.467E-08	9.165E-09	4.985E-09	3.252E-09	2.333E-09	1.777E-09	1.410E-09	1.153E-09	9.644E-10	8.214E-10
NW	8.605E-08	4.313E-08	2.740E-08	1.524E-08	1.008E-08	7.301E-09	5.603E-09	4.473E-09	3.675E-09	3.086E-09	2.637E-09
NNW	1.855E-07	9.661E-08	6.295E-08	3.611E-08	2.427E-08	1.777E-08	1.373E-08	1.101E-08	9.068E-09	7.626E-09	6.519E-09
N	2.012E-07	1.039E-07	6.737E-08	3.842E-08	2.574E-08	1.882E-08	1.453E-08	1.164E-08	9.593E-09	8.071E-09	6.903E-09
NNE	1.405E-07	7.279E-08	4.727E-08	2.701E-08	1.812E-08	1.325E-08	1.023E-08	8.202E-09	6.758E-09	5.686E-09	4.863E-09
NE	7.593E-08	3.976E-08	2.598E-08	1.494E-08	1.004E-08	7.340E-09	5.661E-09	4.529E-09	3.722E-09	3.122E-09	2.661E-09
ENE	3.545E-08	1.836E-08	1.192E-08	6.794E-09	4.546E-09	3.316E-09	2.554E-09	2.042E-09	1.678E-09	1.408E-09	1.201E-09
E	5.340E-08	2.709E-08	1.733E-08	9.687E-09	6.397E-09	4.621E-09	3.534E-09	2.809E-09	2.298E-09	1.921E-09	1.634E-09
ESE	6.142E-08	3.139E-08	2.020E-08	1.142E-08	7.620E-09	5.555E-09	4.280E-09	3.427E-09	2.821E-09	2.372E-09	2.028E-09
SE	1.224E-07	6.417E-08	4.200E-08	2.422E-08	1.634E-08	1.199E-08	9.273E-09	7.441E-09	6.132E-09	5.157E-09	4.408E-09
SSE	1.298E-07	6.730E-08	4.372E-08	2.496E-08	1.672E-08	1.221E-08	9.408E-09	7.528E-09	6.190E-09	5.197E-09	4.436E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.376E-06	1.529E-06	4.918E-07	2.533E-07	1.592E-07	7.149E-08	2.568E-08	1.233E-08	7.543E-09	5.177E-09
SSW	3.120E-06	7.229E-07	2.261E-07	1.147E-07	7.141E-08	3.160E-08	1.112E-08	5.279E-09	3.211E-09	2.195E-09
SW	1.808E-06	4.163E-07	1.298E-07	6.583E-08	4.097E-08	1.817E-08	6.429E-09	3.072E-09	1.880E-09	1.292E-09
WSW	1.830E-06	4.126E-07	1.286E-07	6.512E-08	4.048E-08	1.789E-08	6.297E-09	2.999E-09	1.833E-09	1.259E-09
W	2.002E-06	4.546E-07	1.342E-07	6.579E-08	3.993E-08	1.696E-08	5.592E-09	2.537E-09	1.508E-09	1.018E-09
WNW	1.969E-06	4.368E-07	1.265E-07	6.135E-08	3.699E-08	1.562E-08	5.144E-09	2.356E-09	1.417E-09	9.673E-10
NW	5.124E-06	1.159E-06	3.474E-07	1.722E-07	1.055E-07	4.568E-08	1.565E-08	7.362E-09	4.492E-09	3.095E-09
NNW	9.318E-06	2.162E-06	6.937E-07	3.574E-07	2.249E-07	1.014E-07	3.681E-08	1.789E-08	1.105E-08	7.644E-09
N	1.041E-05	2.418E-06	7.644E-07	3.906E-07	2.444E-07	1.093E-07	3.922E-08	1.895E-08	1.169E-08	8.089E-09
NNE	7.115E-06	1.666E-06	5.303E-07	2.719E-07	1.705E-07	7.650E-08	2.756E-08	1.334E-08	8.232E-09	5.699E-09
NE	3.632E-06	8.540E-07	2.791E-07	1.451E-07	9.183E-08	4.167E-08	1.521E-08	7.388E-09	4.545E-09	3.129E-09
ENE	1.771E-06	4.167E-07	1.334E-07	6.853E-08	4.302E-08	1.930E-08	6.933E-09	3.339E-09	2.050E-09	1.411E-09
E	2.827E-06	6.729E-07	2.086E-07	1.052E-07	6.519E-08	2.860E-08	9.922E-09	4.660E-09	2.821E-09	1.926E-09
ESE	3.255E-06	7.650E-07	2.380E-07	1.204E-07	7.485E-08	3.309E-08	1.168E-08	5.596E-09	3.440E-09	2.378E-09
SE	5.915E-06	1.382E-06	4.504E-07	2.339E-07	1.480E-07	6.725E-08	2.467E-08	1.206E-08	7.465E-09	5.168E-09
SSE	6.504E-06	1.526E-06	4.880E-07	2.508E-07	1.575E-07	7.071E-08	2.547E-08	1.229E-08	7.555E-09	5.209E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.628E-05	1.113E-05	5.872E-06	2.933E-06	1.166E-06	6.233E-07	3.900E-07	2.688E-07	1.978E-07	1.525E-07	1.217E-07
SSW	1.751E-05	5.524E-06	2.862E-06	1.406E-06	5.473E-07	2.887E-07	1.789E-07	1.224E-07	8.947E-08	6.861E-08	5.454E-08
SW	9.886E-06	3.204E-06	1.660E-06	8.106E-07	3.146E-07	1.657E-07	1.026E-07	7.011E-08	5.124E-08	3.928E-08	3.122E-08
WSW	1.028E-05	3.304E-06	1.664E-06	8.030E-07	3.117E-07	1.641E-07	1.015E-07	6.935E-08	5.066E-08	3.881E-08	3.083E-08
W	1.014E-05	3.507E-06	1.851E-06	9.047E-07	3.389E-07	1.739E-07	1.054E-07	7.078E-08	5.095E-08	3.855E-08	3.027E-08
WNW	1.022E-05	3.488E-06	1.812E-06	8.765E-07	3.237E-07	1.645E-07	9.899E-08	6.612E-08	4.737E-08	3.570E-08	2.794E-08
NW	2.706E-05	9.054E-06	4.714E-06	2.293E-06	8.661E-07	4.474E-07	2.729E-07	1.843E-07	1.333E-07	1.013E-07	7.987E-08
NNW	5.394E-05	1.664E-05	8.501E-06	4.157E-06	1.646E-06	8.786E-07	5.495E-07	3.787E-07	2.787E-07	2.149E-07	1.716E-07
N	5.896E-05	1.847E-05	9.537E-06	4.676E-06	1.833E-06	9.714E-07	6.042E-07	4.146E-07	3.040E-07	2.337E-07	1.861E-07
NNE	4.038E-05	1.257E-05	6.522E-06	3.213E-06	1.265E-06	6.729E-07	4.195E-07	2.884E-07	2.117E-07	1.630E-07	1.299E-07
NE	2.156E-05	6.486E-06	3.309E-06	1.628E-06	6.540E-07	3.524E-07	2.218E-07	1.537E-07	1.135E-07	8.784E-08	7.036E-08
ENE	1.024E-05	3.131E-06	1.621E-06	8.015E-07	3.173E-07	1.692E-07	1.057E-07	7.275E-08	5.347E-08	4.119E-08	3.287E-08
E	1.492E-05	4.870E-06	2.625E-06	1.312E-06	5.082E-07	2.668E-07	1.647E-07	1.123E-07	8.183E-08	6.259E-08	4.962E-08
ESE	1.794E-05	5.678E-06	3.004E-06	1.490E-06	5.776E-07	3.038E-07	1.878E-07	1.282E-07	9.361E-08	7.170E-08	5.693E-08
SE	3.579E-05	1.061E-05	5.375E-06	2.637E-06	1.057E-06	5.685E-07	3.576E-07	2.475E-07	1.828E-07	1.414E-07	1.132E-07
SSE	3.728E-05	1.151E-05	5.957E-06	2.937E-06	1.161E-06	6.189E-07	3.865E-07	2.661E-07	1.955E-07	1.506E-07	1.202E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	9.986E-08	4.947E-08	3.092E-08	1.664E-08	1.065E-08	7.494E-09	5.600E-09	4.361E-09	3.501E-09	2.877E-09	2.408E-09
SSW	4.457E-08	2.178E-08	1.349E-08	7.184E-09	4.572E-09	3.204E-09	2.387E-09	1.854E-09	1.486E-09	1.219E-09	1.018E-09
SW	2.552E-08	1.248E-08	7.735E-09	4.123E-09	2.627E-09	1.843E-09	1.374E-09	1.069E-09	8.570E-10	7.036E-10	5.885E-10
WSW	2.518E-08	1.227E-08	7.589E-09	4.035E-09	2.567E-09	1.799E-09	1.341E-09	1.043E-09	8.360E-10	6.864E-10	5.741E-10
W	2.447E-08	1.146E-08	6.880E-09	3.507E-09	2.166E-09	1.483E-09	1.085E-09	8.297E-10	6.561E-10	5.321E-10	4.403E-10
WNW	2.253E-08	1.048E-08	6.271E-09	3.187E-09	1.970E-09	1.352E-09	9.902E-10	7.590E-10	6.015E-10	4.889E-10	4.054E-10
NW	6.484E-08	3.091E-08	1.882E-08	9.801E-09	6.156E-09	4.274E-09	3.162E-09	2.443E-09	1.949E-09	1.594E-09	1.329E-09
NNW	1.409E-07	7.005E-08	4.392E-08	2.376E-08	1.528E-08	1.080E-08	8.096E-09	6.325E-09	5.093E-09	4.196E-09	3.520E-09
N	1.524E-07	7.510E-08	4.680E-08	2.512E-08	1.607E-08	1.132E-08	8.462E-09	6.597E-09	5.302E-09	4.361E-09	3.655E-09
NNE	1.065E-07	5.263E-08	3.286E-08	1.768E-08	1.132E-08	7.978E-09	5.969E-09	4.656E-09	3.743E-09	3.080E-09	2.582E-09
NE	5.789E-08	2.899E-08	1.826E-08	9.938E-09	6.412E-09	4.540E-09	3.409E-09	2.666E-09	2.147E-09	1.770E-09	1.485E-09
ENE	2.695E-08	1.334E-08	8.331E-09	4.485E-09	2.874E-09	2.025E-09	1.515E-09	1.181E-09	9.490E-10	7.805E-10	6.538E-10
E	4.046E-08	1.957E-08	1.203E-08	6.328E-09	3.988E-09	2.774E-09	2.054E-09	1.587E-09	1.266E-09	1.035E-09	8.619E-10
ESE	4.648E-08	2.264E-08	1.399E-08	7.431E-09	4.727E-09	3.313E-09	2.468E-09	1.919E-09	1.538E-09	1.263E-09	1.056E-09
SE	9.314E-08	4.668E-08	2.943E-08	1.604E-08	1.037E-08	7.356E-09	5.532E-09	4.332E-09	3.495E-09	2.884E-09	2.422E-09
SSE	9.858E-08	4.882E-08	3.051E-08	1.644E-08	1.054E-08	7.425E-09	5.555E-09	4.332E-09	3.482E-09	2.865E-09	2.400E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.734E-06	1.318E-06	4.037E-07	2.008E-07	1.227E-07	5.242E-08	1.715E-08	7.578E-09	4.388E-09	2.888E-09
SSW	2.806E-06	6.231E-07	1.856E-07	9.092E-08	5.502E-08	2.316E-08	7.425E-09	3.242E-09	1.866E-09	1.224E-09
SW	1.626E-06	3.586E-07	1.064E-07	5.208E-08	3.150E-08	1.327E-08	4.261E-09	1.865E-09	1.075E-09	7.065E-10
WSW	1.646E-06	3.553E-07	1.053E-07	5.149E-08	3.110E-08	1.306E-08	4.172E-09	1.821E-09	1.049E-09	6.891E-10
W	1.798E-06	3.913E-07	1.098E-07	5.189E-08	3.057E-08	1.231E-08	3.661E-09	1.506E-09	8.364E-10	5.348E-10
WNW	1.769E-06	3.758E-07	1.033E-07	4.828E-08	2.824E-08	1.129E-08	3.332E-09	1.372E-09	7.650E-10	4.913E-10
NW	4.602E-06	9.971E-07	2.840E-07	1.357E-07	8.065E-08	3.308E-08	1.019E-08	4.331E-09	2.460E-09	1.601E-09
NNW	8.380E-06	1.863E-06	5.690E-07	2.830E-07	1.731E-07	7.418E-08	2.447E-08	1.091E-08	6.361E-09	4.211E-09
N	9.361E-06	2.082E-06	6.263E-07	3.088E-07	1.878E-07	7.971E-08	2.592E-08	1.144E-08	6.636E-09	4.378E-09
NNE	6.396E-06	1.435E-06	4.346E-07	2.151E-07	1.311E-07	5.582E-08	1.823E-08	8.067E-09	4.683E-09	3.092E-09
NE	3.268E-06	7.363E-07	2.294E-07	1.152E-07	7.092E-08	3.065E-08	1.022E-08	4.587E-09	2.681E-09	1.776E-09
ENE	1.592E-06	3.591E-07	1.094E-07	5.430E-08	3.314E-08	1.414E-08	4.624E-09	2.047E-09	1.188E-09	7.835E-10
E	2.540E-06	5.796E-07	1.710E-07	8.319E-08	5.007E-08	2.086E-08	6.555E-09	2.810E-09	1.598E-09	1.039E-09
ESE	2.925E-06	6.587E-07	1.949E-07	9.516E-08	5.744E-08	2.409E-08	7.687E-09	3.352E-09	1.931E-09	1.268E-09
SE	5.321E-06	1.191E-06	3.698E-07	1.855E-07	1.141E-07	4.934E-08	1.650E-08	7.431E-09	4.356E-09	2.894E-09
SSE	5.848E-06	1.315E-06	4.003E-07	1.986E-07	1.212E-07	5.174E-08	1.694E-08	7.507E-09	4.358E-09	2.875E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.185E-07	4.008E-08	2.058E-08	9.782E-09	3.514E-09	1.743E-09	1.026E-09	6.719E-10	4.728E-10	3.504E-10	2.700E-10
SSW	7.488E-08	2.532E-08	1.300E-08	6.181E-09	2.220E-09	1.101E-09	6.483E-10	4.245E-10	2.987E-10	2.214E-10	1.706E-10
SW	4.662E-08	1.576E-08	8.094E-09	3.848E-09	1.382E-09	6.854E-10	4.036E-10	2.643E-10	1.860E-10	1.378E-10	1.062E-10
WSW	5.311E-08	1.796E-08	9.222E-09	4.384E-09	1.575E-09	7.810E-10	4.599E-10	3.011E-10	2.119E-10	1.570E-10	1.210E-10
W	6.929E-08	2.343E-08	1.203E-08	5.719E-09	2.054E-09	1.019E-09	5.999E-10	3.928E-10	2.764E-10	2.048E-10	1.579E-10
WNW	9.632E-08	3.257E-08	1.672E-08	7.951E-09	2.856E-09	1.416E-09	8.340E-10	5.461E-10	3.842E-10	2.848E-10	2.194E-10
NW	2.414E-07	8.164E-08	4.192E-08	1.993E-08	7.158E-09	3.550E-09	2.090E-09	1.369E-09	9.631E-10	7.137E-10	5.500E-10
NNW	2.961E-07	1.001E-07	5.140E-08	2.444E-08	8.778E-09	4.353E-09	2.563E-09	1.678E-09	1.181E-09	8.752E-10	6.745E-10
N	4.302E-07	1.455E-07	7.470E-08	3.551E-08	1.276E-08	6.326E-09	3.725E-09	2.439E-09	1.716E-09	1.272E-09	9.801E-10
NNE	2.146E-07	7.259E-08	3.727E-08	1.772E-08	6.364E-09	3.156E-09	1.858E-09	1.217E-09	8.563E-10	6.346E-10	4.890E-10
NE	6.638E-08	2.245E-08	1.152E-08	5.479E-09	1.968E-09	9.760E-10	5.747E-10	3.763E-10	2.648E-10	1.962E-10	1.512E-10
ENE	4.885E-08	1.652E-08	8.482E-09	4.032E-09	1.448E-09	7.183E-10	4.230E-10	2.770E-10	1.949E-10	1.444E-10	1.113E-10
E	8.997E-08	3.042E-08	1.562E-08	7.427E-09	2.668E-09	1.323E-09	7.790E-10	5.101E-10	3.589E-10	2.660E-10	2.050E-10
ESE	1.138E-07	3.847E-08	1.975E-08	9.390E-09	3.373E-09	1.673E-09	9.849E-10	6.449E-10	4.538E-10	3.363E-10	2.592E-10
SE	1.629E-07	5.508E-08	2.828E-08	1.344E-08	4.829E-09	2.395E-09	1.410E-09	9.234E-10	6.497E-10	4.815E-10	3.711E-10
SSE	1.931E-07	6.531E-08	3.353E-08	1.594E-08	5.726E-09	2.840E-09	1.672E-09	1.095E-09	7.704E-10	5.709E-10	4.400E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.145E-10	9.529E-11	5.772E-11	2.917E-11	1.766E-11	1.184E-11	8.483E-12	6.370E-12	4.953E-12	3.956E-12	3.229E-12
SSW	1.355E-10	6.020E-11	3.647E-11	1.843E-11	1.116E-11	7.480E-12	5.360E-12	4.025E-12	3.129E-12	2.500E-12	2.040E-12
SW	8.437E-11	3.748E-11	2.270E-11	1.148E-11	6.946E-12	4.657E-12	3.337E-12	2.506E-12	1.948E-12	1.556E-12	1.270E-12
WSW	9.613E-11	4.270E-11	2.587E-11	1.307E-11	7.914E-12	5.306E-12	3.802E-12	2.855E-12	2.220E-12	1.773E-12	1.447E-12
W	1.254E-10	5.571E-11	3.375E-11	1.706E-11	1.032E-11	6.922E-12	4.960E-12	3.724E-12	2.896E-12	2.313E-12	1.888E-12
WNW	1.743E-10	7.744E-11	4.691E-11	2.371E-11	1.435E-11	9.622E-12	6.895E-12	5.177E-12	4.026E-12	3.216E-12	2.625E-12
NW	4.369E-10	1.941E-10	1.176E-10	5.943E-11	3.597E-11	2.412E-11	1.728E-11	1.298E-11	1.009E-11	8.060E-12	6.579E-12
NNW	5.358E-10	2.380E-10	1.442E-10	7.288E-11	4.411E-11	2.958E-11	2.119E-11	1.591E-11	1.237E-11	9.884E-12	8.067E-12
N	7.787E-10	3.459E-10	2.095E-10	1.059E-10	6.410E-11	4.298E-11	3.080E-11	2.312E-11	1.798E-11	1.436E-11	1.172E-11
NNE	3.885E-10	1.726E-10	1.045E-10	5.284E-11	3.198E-11	2.144E-11	1.537E-11	1.154E-11	8.971E-12	7.166E-12	5.849E-12
NE	1.201E-10	5.337E-11	3.233E-11	1.634E-11	9.890E-12	6.631E-12	4.751E-12	3.568E-12	2.774E-12	2.216E-12	1.809E-12
ENE	8.842E-11	3.928E-11	2.379E-11	1.203E-11	7.279E-12	4.880E-12	3.497E-12	2.626E-12	2.042E-12	1.631E-12	1.331E-12
E	1.628E-10	7.234E-11	4.382E-11	2.215E-11	1.341E-11	8.988E-12	6.440E-12	4.836E-12	3.760E-12	3.004E-12	2.452E-12
ESE	2.059E-10	9.147E-11	5.541E-11	2.800E-11	1.695E-11	1.136E-11	8.143E-12	6.115E-12	4.754E-12	3.798E-12	3.100E-12
SE	2.948E-10	1.310E-10	7.933E-11	4.010E-11	2.427E-11	1.627E-11	1.166E-11	8.755E-12	6.807E-12	5.438E-12	4.438E-12
SSE	3.495E-10	1.553E-10	9.406E-11	4.754E-11	2.877E-11	1.929E-11	1.382E-11	1.038E-11	8.071E-12	6.447E-12	5.262E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.011E-08	4.120E-09	1.075E-09	4.830E-10	2.732E-10	1.051E-10	3.040E-11	1.205E-11	6.434E-12	3.982E-12
SSW	1.271E-08	2.603E-09	6.795E-10	3.052E-10	1.726E-10	6.639E-11	1.921E-11	7.612E-12	4.065E-12	2.516E-12
SW	7.911E-09	1.620E-09	4.230E-10	1.900E-10	1.075E-10	4.133E-11	1.196E-11	4.739E-12	2.531E-12	1.566E-12
WSW	9.014E-09	1.846E-09	4.820E-10	2.165E-10	1.225E-10	4.709E-11	1.362E-11	5.400E-12	2.884E-12	1.785E-12
W	1.176E-08	2.409E-09	6.288E-10	2.824E-10	1.598E-10	6.144E-11	1.777E-11	7.044E-12	3.762E-12	2.328E-12
WNW	1.635E-08	3.348E-09	8.741E-10	3.926E-10	2.221E-10	8.540E-11	2.471E-11	9.792E-12	5.229E-12	3.237E-12
NW	4.097E-08	8.392E-09	2.191E-09	9.840E-10	5.566E-10	2.141E-10	6.193E-11	2.454E-11	1.311E-11	8.113E-12
NNW	5.024E-08	1.029E-08	2.687E-09	1.207E-09	6.826E-10	2.625E-10	7.594E-11	3.010E-11	1.607E-11	9.948E-12
N	7.301E-08	1.496E-08	3.904E-09	1.753E-09	9.920E-10	3.815E-10	1.104E-10	4.374E-11	2.336E-11	1.446E-11
NNE	3.643E-08	7.462E-09	1.948E-09	8.748E-10	4.949E-10	1.903E-10	5.506E-11	2.182E-11	1.165E-11	7.213E-12
NE	1.126E-08	2.307E-09	6.023E-10	2.705E-10	1.530E-10	5.885E-11	1.703E-11	6.748E-12	3.604E-12	2.230E-12
ENE	8.290E-09	1.698E-09	4.433E-10	1.991E-10	1.126E-10	4.332E-11	1.253E-11	4.966E-12	2.652E-12	1.642E-12
E	1.527E-08	3.128E-09	8.165E-10	3.667E-10	2.074E-10	7.977E-11	2.308E-11	9.147E-12	4.884E-12	3.023E-12
ESE	1.931E-08	3.954E-09	1.032E-09	4.637E-10	2.623E-10	1.009E-10	2.918E-11	1.157E-11	6.176E-12	3.823E-12
SE	2.764E-08	5.662E-09	1.478E-09	6.638E-10	3.755E-10	1.444E-10	4.178E-11	1.656E-11	8.843E-12	5.473E-12
SSE	3.277E-08	6.713E-09	1.753E-09	7.871E-10	4.453E-10	1.712E-10	4.954E-11	1.963E-11	1.048E-11	6.490E-12

VENTS GROUND LEVEL RELEASES - APR-JUN 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	5.7E-06	5.7E-06	5.0E-06	1.8E-08
A	Site Boundary	SSW	.82	2.6E-06	2.6E-06	2.3E-06	1.0E-08
A	Site Boundary	SW	.97	9.8E-07	9.8E-07	8.6E-07	4.1E-09
A	Site Boundary	WSW	.93	1.1E-06	1.1E-06	9.8E-07	5.4E-09
A	Site Boundary	W	.91	1.3E-06	1.3E-06	1.1E-06	7.2E-09
A	Site Boundary	WNW	.94	1.2E-06	1.2E-06	1.0E-06	9.4E-09
A	Site Boundary	NW	.81	4.4E-06	4.4E-06	3.9E-06	3.4E-08
A	Site Boundary	NNW	.69	1.1E-05	1.1E-05	9.8E-06	6.0E-08
A	Site Boundary	N	.67	1.3E-05	1.3E-05	1.1E-05	8.9E-08
A	Site Boundary	NNE	.60	1.0E-05	1.0E-05	9.3E-06	5.4E-08
A	Site Boundary	NE	.62	4.9E-06	4.9E-06	4.4E-06	1.6E-08
A	Site Boundary	ENE	.59	2.7E-06	2.6E-06	2.4E-06	1.3E-08
A	Site Boundary	E	.53	4.9E-06	4.9E-06	4.5E-06	2.8E-08
A	Site Boundary	ESE	.54	5.5E-06	5.5E-06	5.0E-06	3.4E-08
A	Site Boundary	SE	.65	7.6E-06	7.5E-06	6.8E-06	3.6E-08
A	Site Boundary	SSE	.81	5.5E-06	5.5E-06	4.9E-06	2.7E-08
A	Nearest Res	SW	1.30	5.1E-07	5.1E-07	4.4E-07	2.0E-09
A	Nearest Res	WSW	1.30	5.0E-07	5.0E-07	4.3E-07	2.3E-09
A	Nearest Res	W	1.00	1.0E-06	1.0E-06	9.1E-07	5.7E-09
A	Nearest Res	WNW	1.70	2.9E-07	2.9E-07	2.4E-07	2.1E-09
A	Nearest Res	NW	.90	3.4E-06	3.4E-06	3.0E-06	2.6E-08
A	Nearest Res	NNW	1.90	1.2E-06	1.2E-06	9.8E-07	4.9E-09
A	Nearest Res	N	3.00	5.2E-07	5.2E-07	4.1E-07	2.4E-09
A	Nearest Res	ENE	1.70	2.9E-07	2.8E-07	2.4E-07	1.1E-09
A	Nearest Res	E	1.90	3.6E-07	3.6E-07	3.0E-07	1.5E-09
A	Nearest Res	ESE	2.30	2.8E-07	2.7E-07	2.2E-07	1.2E-09
A	Nearest Res	SE	3.20	2.8E-07	2.7E-07	2.2E-07	8.0E-10
A	Nearest Cow	NNW	3.50	3.6E-07	3.5E-07	2.8E-07	1.2E-09
A	Nearest Garde	SW	2.20	1.6E-07	1.6E-07	1.3E-07	5.5E-10
A	Nearest Garde	WSW	1.90	2.2E-07	2.2E-07	1.8E-07	8.8E-10
A	Nearest Garde	WNW	2.40	1.3E-07	1.3E-07	1.1E-07	9.2E-10
A	Nearest Garde	ESE	3.00	1.6E-07	1.6E-07	1.3E-07	6.4E-10
A	Nearest Garde	SE	3.50	2.4E-07	2.3E-07	1.8E-07	6.5E-10

Atmospheric Diffusion Estimates

Ground Level Releases

January-June 2005

VENTS GROUND LEVEL RELEASES - JAN-JUN 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.769E-05	1.602E-05	8.631E-06	4.337E-06	1.733E-06	9.347E-07	5.906E-07	4.111E-07	3.055E-07	2.378E-07	1.917E-07
SSW	2.509E-05	8.633E-06	4.610E-06	2.294E-06	9.017E-07	4.807E-07	3.011E-07	2.081E-07	1.537E-07	1.190E-07	9.551E-08
SW	1.312E-05	4.587E-06	2.449E-06	1.215E-06	4.765E-07	2.538E-07	1.588E-07	1.097E-07	8.099E-08	6.270E-08	5.029E-08
WSW	1.459E-05	4.810E-06	2.484E-06	1.222E-06	4.924E-07	2.673E-07	1.697E-07	1.187E-07	8.853E-08	6.915E-08	5.591E-08
W	9.794E-06	3.437E-06	1.828E-06	9.047E-07	3.529E-07	1.870E-07	1.166E-07	8.029E-08	5.911E-08	4.565E-08	3.653E-08
WNW	1.324E-05	4.726E-06	2.516E-06	1.239E-06	4.712E-07	2.453E-07	1.508E-07	1.026E-07	7.481E-08	5.727E-08	4.548E-08
NW	3.673E-05	1.249E-05	6.583E-06	3.256E-06	1.291E-06	6.930E-07	4.364E-07	3.031E-07	2.248E-07	1.747E-07	1.406E-07
NNW	5.345E-05	1.692E-05	8.846E-06	4.413E-06	1.814E-06	9.979E-07	6.403E-07	4.513E-07	3.389E-07	2.663E-07	2.163E-07
N	8.013E-05	2.545E-05	1.344E-05	6.742E-06	2.764E-06	1.518E-06	9.724E-07	6.846E-07	5.135E-07	4.030E-07	3.272E-07
NNE	4.422E-05	1.432E-05	7.588E-06	3.801E-06	1.545E-06	8.436E-07	5.382E-07	3.776E-07	2.825E-07	2.212E-07	1.792E-07
NE	2.292E-05	7.282E-06	3.825E-06	1.915E-06	7.886E-07	4.344E-07	2.789E-07	1.967E-07	1.478E-07	1.161E-07	9.437E-08
ENE	1.162E-05	3.783E-06	1.996E-06	9.961E-07	4.026E-07	2.189E-07	1.392E-07	9.743E-08	7.272E-08	5.683E-08	4.597E-08
E	1.562E-05	5.298E-06	2.906E-06	1.473E-06	5.872E-07	3.161E-07	1.994E-07	1.386E-07	1.029E-07	8.001E-08	6.443E-08
ESE	1.719E-05	5.752E-06	3.118E-06	1.570E-06	6.244E-07	3.357E-07	2.116E-07	1.471E-07	1.091E-07	8.487E-08	6.834E-08
SE	3.320E-05	1.061E-05	5.634E-06	2.831E-06	1.154E-06	6.313E-07	4.032E-07	2.832E-07	2.121E-07	1.662E-07	1.347E-07
SSE	4.093E-05	1.336E-05	7.093E-06	3.551E-06	1.433E-06	7.784E-07	4.946E-07	3.459E-07	2.581E-07	2.016E-07	1.630E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.588E-07	8.175E-08	5.306E-08	3.050E-08	2.069E-08	1.535E-08	1.204E-08	9.810E-09	8.223E-09	7.042E-09	6.132E-09
SSW	7.877E-08	3.995E-08	2.565E-08	1.454E-08	9.774E-09	7.199E-09	5.616E-09	4.556E-09	3.805E-09	3.247E-09	2.819E-09
SW	4.147E-08	2.103E-08	1.350E-08	7.652E-09	5.143E-09	3.787E-09	2.954E-09	2.396E-09	2.000E-09	1.707E-09	1.481E-09
WSW	4.644E-08	2.420E-08	1.584E-08	9.232E-09	6.326E-09	4.730E-09	3.736E-09	3.063E-09	2.581E-09	2.221E-09	1.943E-09
W	3.006E-08	1.510E-08	9.631E-09	5.407E-09	3.612E-09	2.647E-09	2.057E-09	1.663E-09	1.385E-09	1.179E-09	1.021E-09
WNW	3.718E-08	1.823E-08	1.142E-08	6.251E-09	4.113E-09	2.978E-09	2.290E-09	1.836E-09	1.516E-09	1.282E-09	1.104E-09
NW	1.163E-07	5.972E-08	3.870E-08	2.222E-08	1.508E-08	1.119E-08	8.781E-09	7.162E-09	6.008E-09	5.148E-09	4.486E-09
NNW	1.805E-07	9.555E-08	6.324E-08	3.737E-08	2.584E-08	1.944E-08	1.543E-08	1.271E-08	1.075E-08	9.272E-09	8.129E-09
N	2.727E-07	1.439E-07	9.503E-08	5.596E-08	3.860E-08	2.900E-08	2.298E-08	1.890E-08	1.596E-08	1.376E-08	1.205E-08
NNE	1.491E-07	7.817E-08	5.139E-08	3.008E-08	2.067E-08	1.548E-08	1.224E-08	1.004E-08	8.466E-09	7.287E-09	6.374E-09
NE	7.873E-08	4.168E-08	2.758E-08	1.629E-08	1.126E-08	8.468E-09	6.720E-09	5.531E-09	4.675E-09	4.033E-09	3.535E-09
ENE	3.819E-08	1.992E-08	1.305E-08	7.601E-09	5.207E-09	3.892E-09	3.072E-09	2.518E-09	2.121E-09	1.824E-09	1.594E-09
E	5.330E-08	2.733E-08	1.768E-08	1.011E-08	6.833E-09	5.050E-09	3.950E-09	3.211E-09	2.686E-09	2.295E-09	1.994E-09
ESE	5.656E-08	2.906E-08	1.883E-08	1.081E-08	7.336E-09	5.441E-09	4.268E-09	3.478E-09	2.916E-09	2.496E-09	2.174E-09
SE	1.121E-07	5.892E-08	3.879E-08	2.276E-08	1.566E-08	1.174E-08	9.293E-09	7.632E-09	6.439E-09	5.545E-09	4.853E-09
SSE	1.354E-07	7.052E-08	4.615E-08	2.685E-08	1.837E-08	1.371E-08	1.082E-08	8.857E-09	7.455E-09	6.407E-09	5.597E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.365E-06	1.957E-06	6.106E-07	3.099E-07	1.932E-07	8.611E-08	3.115E-08	1.545E-08	9.842E-09	7.055E-09
SSW	4.474E-06	1.024E-06	3.118E-07	1.560E-07	9.628E-08	4.222E-08	1.489E-08	7.252E-09	4.573E-09	3.254E-09
SW	2.376E-06	5.416E-07	1.645E-07	8.222E-08	5.070E-08	2.223E-08	7.837E-09	3.815E-09	2.404E-09	1.710E-09
WSW	2.440E-06	5.545E-07	1.753E-07	8.977E-08	5.633E-08	2.543E-08	9.410E-09	4.758E-09	3.072E-09	2.225E-09
W	1.775E-06	4.018E-07	1.209E-07	6.003E-08	3.684E-08	1.599E-08	5.548E-09	2.668E-09	1.669E-09	1.181E-09
WNW	2.440E-06	5.413E-07	1.567E-07	7.608E-08	4.590E-08	1.941E-08	6.448E-09	3.005E-09	1.844E-09	1.285E-09
NW	6.417E-06	1.462E-06	4.515E-07	2.281E-07	1.417E-07	6.296E-08	2.271E-08	1.126E-08	7.185E-09	5.157E-09
NNW	8.671E-06	2.029E-06	6.601E-07	3.434E-07	2.178E-07	1.001E-07	3.799E-08	1.955E-08	1.274E-08	9.285E-09
N	1.313E-05	3.094E-06	1.003E-06	5.203E-07	3.295E-07	1.508E-07	5.693E-08	2.915E-08	1.895E-08	1.378E-08
NNE	7.400E-06	1.735E-06	5.554E-07	2.863E-07	1.805E-07	8.203E-08	3.063E-08	1.557E-08	1.007E-08	7.298E-09
NE	3.744E-06	8.814E-07	2.875E-07	1.497E-07	9.502E-08	4.365E-08	1.656E-08	8.513E-09	5.544E-09	4.038E-09
ENE	1.949E-06	4.529E-07	1.438E-07	7.373E-08	4.631E-08	2.092E-08	7.747E-09	3.915E-09	2.525E-09	1.827E-09
E	2.801E-06	6.635E-07	2.062E-07	1.044E-07	6.493E-08	2.881E-08	1.034E-08	5.085E-09	3.222E-09	2.299E-09
ESE	3.015E-06	7.062E-07	2.189E-07	1.107E-07	6.887E-08	3.062E-08	1.105E-08	5.477E-09	3.489E-09	2.501E-09
SE	5.493E-06	1.295E-06	4.161E-07	2.149E-07	1.357E-07	6.180E-08	2.317E-08	1.181E-08	7.652E-09	5.554E-09
SSE	6.911E-06	1.613E-06	5.108E-07	2.617E-07	1.642E-07	7.410E-08	2.737E-08	1.380E-08	8.883E-09	6.417E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.763E-05	1.598E-05	8.602E-06	4.317E-06	1.721E-06	9.259E-07	5.835E-07	4.052E-07	3.004E-07	2.332E-07	1.875E-07
SSW	2.506E-05	8.615E-06	4.595E-06	2.284E-06	8.958E-07	4.765E-07	2.977E-07	2.053E-07	1.513E-07	1.169E-07	9.356E-08
SW	1.310E-05	4.577E-06	2.442E-06	1.210E-06	4.735E-07	2.516E-07	1.571E-07	1.083E-07	7.976E-08	6.161E-08	4.931E-08
WSW	1.457E-05	4.799E-06	2.475E-06	1.217E-06	4.891E-07	2.648E-07	1.678E-07	1.170E-07	8.707E-08	6.784E-08	5.472E-08
W	9.785E-06	3.431E-06	1.823E-06	9.014E-07	3.509E-07	1.856E-07	1.155E-07	7.937E-08	5.831E-08	4.493E-08	3.589E-08
WNW	1.323E-05	4.719E-06	2.511E-06	1.235E-06	4.690E-07	2.438E-07	1.496E-07	1.017E-07	7.398E-08	5.654E-08	4.483E-08
NW	3.670E-05	1.247E-05	6.565E-06	3.244E-06	1.284E-06	6.877E-07	4.322E-07	2.995E-07	2.216E-07	1.719E-07	1.381E-07
NNW	5.338E-05	1.688E-05	8.813E-06	4.391E-06	1.800E-06	9.877E-07	6.320E-07	4.443E-07	3.328E-07	2.607E-07	2.113E-07
N	8.003E-05	2.539E-05	1.339E-05	6.709E-06	2.744E-06	1.503E-06	9.602E-07	6.743E-07	5.045E-07	3.949E-07	3.198E-07
NNE	4.417E-05	1.428E-05	7.564E-06	3.784E-06	1.535E-06	8.361E-07	5.321E-07	3.725E-07	2.780E-07	2.172E-07	1.755E-07
NE	2.288E-05	7.262E-06	3.810E-06	1.904E-06	7.820E-07	4.295E-07	2.750E-07	1.934E-07	1.448E-07	1.135E-07	9.197E-08
ENE	1.160E-05	3.774E-06	1.988E-06	9.911E-07	3.995E-07	2.166E-07	1.374E-07	9.589E-08	7.138E-08	5.564E-08	4.488E-08
E	1.560E-05	5.286E-06	2.896E-06	1.466E-06	5.831E-07	3.131E-07	1.970E-07	1.366E-07	1.012E-07	7.847E-08	6.303E-08
ESE	1.718E-05	5.741E-06	3.109E-06	1.564E-06	6.207E-07	3.330E-07	2.095E-07	1.453E-07	1.076E-07	8.349E-08	6.709E-08
SE	3.316E-05	1.058E-05	5.614E-06	2.818E-06	1.146E-06	6.251E-07	3.982E-07	2.790E-07	2.083E-07	1.628E-07	1.316E-07
SSE	4.088E-05	1.333E-05	7.069E-06	3.535E-06	1.423E-06	7.711E-07	4.888E-07	3.410E-07	2.537E-07	1.977E-07	1.595E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.549E-07	7.876E-08	5.047E-08	2.828E-08	1.871E-08	1.353E-08	1.035E-08	8.229E-09	6.731E-09	5.625E-09	4.782E-09
SSW	7.699E-08	3.857E-08	2.447E-08	1.354E-08	8.882E-09	6.386E-09	4.863E-09	3.853E-09	3.142E-09	2.619E-09	2.221E-09
SW	4.057E-08	2.034E-08	1.291E-08	7.151E-09	4.697E-09	3.380E-09	2.577E-09	2.043E-09	1.668E-09	1.391E-09	1.181E-09
WSW	4.533E-08	2.332E-08	1.508E-08	8.560E-09	5.716E-09	4.165E-09	3.206E-09	2.563E-09	2.105E-09	1.766E-09	1.506E-09
W	2.947E-08	1.465E-08	9.244E-09	5.079E-09	3.321E-09	2.382E-09	1.811E-09	1.434E-09	1.169E-09	9.737E-10	8.258E-10
WNW	3.659E-08	1.779E-08	1.105E-08	5.955E-09	3.855E-09	2.747E-09	2.079E-09	1.641E-09	1.334E-09	1.111E-09	9.412E-10
NW	1.140E-07	5.789E-08	3.710E-08	2.084E-08	1.384E-08	1.005E-08	7.715E-09	6.158E-09	5.055E-09	4.239E-09	3.616E-09
NNW	1.757E-07	9.180E-08	5.994E-08	3.448E-08	2.321E-08	1.701E-08	1.315E-08	1.055E-08	8.697E-09	7.316E-09	6.254E-09
N	2.658E-07	1.384E-07	9.023E-08	5.177E-08	3.480E-08	2.549E-08	1.970E-08	1.580E-08	1.302E-08	1.095E-08	9.361E-09
NNE	1.457E-07	7.550E-08	4.905E-08	2.805E-08	1.883E-08	1.378E-08	1.065E-08	8.540E-09	7.040E-09	5.926E-09	5.070E-09
NE	7.650E-08	3.992E-08	2.603E-08	1.494E-08	1.003E-08	7.338E-09	5.662E-09	4.533E-09	3.729E-09	3.131E-09	2.671E-09
ENE	3.718E-08	1.912E-08	1.235E-08	7.003E-09	4.669E-09	3.397E-09	2.611E-09	2.084E-09	1.710E-09	1.433E-09	1.221E-09
E	5.201E-08	2.634E-08	1.683E-08	9.386E-09	6.186E-09	4.462E-09	3.406E-09	2.704E-09	2.209E-09	1.844E-09	1.566E-09
ESE	5.541E-08	2.817E-08	1.806E-08	1.016E-08	6.749E-09	4.905E-09	3.770E-09	3.012E-09	2.475E-09	2.079E-09	1.775E-09
SE	1.093E-07	5.666E-08	3.681E-08	2.103E-08	1.410E-08	1.030E-08	7.946E-09	6.363E-09	5.235E-09	4.398E-09	3.755E-09
SSE	1.321E-07	6.793E-08	4.389E-08	2.489E-08	1.660E-08	1.209E-08	9.298E-09	7.428E-09	6.101E-09	5.118E-09	4.365E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.338E-06	1.945E-06	6.035E-07	3.048E-07	1.890E-07	8.311E-08	2.896E-08	1.364E-08	8.264E-09	5.641E-09
SSW	4.461E-06	1.018E-06	3.084E-07	1.536E-07	9.433E-08	4.084E-08	1.390E-08	6.443E-09	3.871E-09	2.626E-09
SW	2.369E-06	5.385E-07	1.628E-07	8.100E-08	4.972E-08	2.154E-08	7.341E-09	3.410E-09	2.053E-09	1.395E-09
WSW	2.432E-06	5.512E-07	1.734E-07	8.831E-08	5.513E-08	2.455E-08	8.744E-09	4.195E-09	2.572E-09	1.770E-09
W	1.771E-06	3.998E-07	1.197E-07	5.923E-08	3.619E-08	1.554E-08	5.223E-09	2.404E-09	1.441E-09	9.766E-10
WNW	2.434E-06	5.391E-07	1.555E-07	7.525E-08	4.525E-08	1.897E-08	6.155E-09	2.776E-09	1.649E-09	1.114E-09
NW	6.400E-06	1.454E-06	4.472E-07	2.249E-07	1.392E-07	6.112E-08	2.134E-08	1.013E-08	6.183E-09	4.250E-09
NNW	8.641E-06	2.015E-06	6.518E-07	3.372E-07	2.128E-07	9.630E-08	3.513E-08	1.712E-08	1.059E-08	7.332E-09
N	1.309E-05	3.073E-06	9.905E-07	5.112E-07	3.220E-07	1.453E-07	5.277E-08	2.565E-08	1.585E-08	1.097E-08
NNE	7.377E-06	1.724E-06	5.494E-07	2.818E-07	1.768E-07	7.935E-08	2.862E-08	1.387E-08	8.570E-09	5.939E-09
NE	3.730E-06	8.747E-07	2.835E-07	1.468E-07	9.262E-08	4.188E-08	1.522E-08	7.387E-09	4.549E-09	3.138E-09
ENE	1.942E-06	4.497E-07	1.419E-07	7.239E-08	4.521E-08	2.013E-08	7.155E-09	3.422E-09	2.092E-09	1.436E-09
E	2.792E-06	6.593E-07	2.038E-07	1.027E-07	6.352E-08	2.782E-08	9.617E-09	4.499E-09	2.716E-09	1.849E-09
ESE	3.007E-06	7.024E-07	2.168E-07	1.092E-07	6.762E-08	2.973E-08	1.040E-08	4.943E-09	3.024E-09	2.084E-09
SE	5.475E-06	1.286E-06	4.110E-07	2.112E-07	1.326E-07	5.953E-08	2.146E-08	1.037E-08	6.386E-09	4.408E-09
SSE	6.890E-06	1.603E-06	5.050E-07	2.573E-07	1.607E-07	7.151E-08	2.543E-08	1.218E-08	7.457E-09	5.130E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.512E-05	1.462E-05	7.684E-06	3.792E-06	1.469E-06	7.719E-07	4.768E-07	3.252E-07	2.372E-07	1.816E-07	1.440E-07
SSW	2.374E-05	7.879E-06	4.104E-06	2.005E-06	7.644E-07	3.971E-07	2.431E-07	1.647E-07	1.194E-07	9.090E-08	7.179E-08
SW	1.241E-05	4.186E-06	2.181E-06	1.062E-06	4.040E-07	2.096E-07	1.282E-07	8.681E-08	6.292E-08	4.789E-08	3.781E-08
WSW	1.380E-05	4.389E-06	2.211E-06	1.069E-06	4.174E-07	2.207E-07	1.370E-07	9.390E-08	6.876E-08	5.280E-08	4.202E-08
W	9.267E-06	3.137E-06	1.628E-06	7.911E-07	2.992E-07	1.546E-07	9.420E-08	6.357E-08	4.595E-08	3.488E-08	2.748E-08
WNW	1.253E-05	4.314E-06	2.241E-06	1.083E-06	3.996E-07	2.028E-07	1.219E-07	8.131E-08	5.819E-08	4.380E-08	3.425E-08
NW	3.476E-05	1.140E-05	5.862E-06	2.847E-06	1.095E-06	5.726E-07	3.525E-07	2.399E-07	1.747E-07	1.335E-07	1.058E-07
NNW	5.056E-05	1.544E-05	7.874E-06	3.858E-06	1.537E-06	8.239E-07	5.167E-07	3.569E-07	2.631E-07	2.032E-07	1.625E-07
N	7.581E-05	2.323E-05	1.197E-05	5.894E-06	2.343E-06	1.253E-06	7.849E-07	5.414E-07	3.987E-07	3.076E-07	2.458E-07
NNE	4.184E-05	1.306E-05	6.756E-06	3.323E-06	1.310E-06	6.968E-07	4.346E-07	2.988E-07	2.194E-07	1.689E-07	1.347E-07
NE	2.168E-05	6.645E-06	3.405E-06	1.673E-06	6.682E-07	3.585E-07	2.250E-07	1.555E-07	1.147E-07	8.856E-08	7.083E-08
ENE	1.099E-05	3.452E-06	1.776E-06	8.707E-07	3.412E-07	1.807E-07	1.123E-07	7.704E-08	5.645E-08	4.337E-08	3.452E-08
E	1.478E-05	4.835E-06	2.587E-06	1.288E-06	4.977E-07	2.611E-07	1.610E-07	1.097E-07	7.990E-08	6.108E-08	4.841E-08
ESE	1.627E-05	5.250E-06	2.776E-06	1.373E-06	5.294E-07	2.773E-07	1.709E-07	1.164E-07	8.482E-08	6.485E-08	5.140E-08
SE	3.141E-05	9.678E-06	5.015E-06	2.475E-06	9.782E-07	5.213E-07	3.255E-07	2.240E-07	1.646E-07	1.268E-07	1.012E-07
SSE	3.872E-05	1.219E-05	6.315E-06	3.104E-06	1.215E-06	6.429E-07	3.993E-07	2.737E-07	2.004E-07	1.539E-07	1.225E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.175E-07	5.702E-08	3.514E-08	1.856E-08	1.174E-08	8.185E-09	6.073E-09	4.703E-09	3.758E-09	3.076E-09	2.566E-09
SSW	5.834E-08	2.788E-08	1.700E-08	8.857E-09	5.553E-09	3.847E-09	2.840E-09	2.190E-09	1.744E-09	1.423E-09	1.184E-09
SW	3.072E-08	1.469E-08	8.957E-09	4.667E-09	2.926E-09	2.028E-09	1.497E-09	1.155E-09	9.199E-10	7.508E-10	6.247E-10
WSW	3.438E-08	1.688E-08	1.050E-08	5.618E-09	3.588E-09	2.523E-09	1.885E-09	1.468E-09	1.179E-09	9.697E-10	8.122E-10
W	2.228E-08	1.055E-08	6.395E-09	3.302E-09	2.059E-09	1.421E-09	1.045E-09	8.041E-10	6.389E-10	5.204E-10	4.322E-10
WNW	2.759E-08	1.276E-08	7.599E-09	3.834E-09	2.358E-09	1.610E-09	1.175E-09	8.973E-10	7.087E-10	5.743E-10	4.749E-10
NW	8.622E-08	4.173E-08	2.569E-08	1.357E-08	8.590E-09	6.001E-09	4.460E-09	3.460E-09	2.769E-09	2.270E-09	1.897E-09
NNW	1.335E-07	6.659E-08	4.184E-08	2.270E-08	1.463E-08	1.035E-08	7.769E-09	6.075E-09	4.895E-09	4.036E-09	3.388E-09
N	2.018E-07	1.003E-07	6.290E-08	3.403E-08	2.188E-08	1.545E-08	1.159E-08	9.051E-09	7.287E-09	6.004E-09	5.037E-09
NNE	1.104E-07	5.457E-08	3.407E-08	1.833E-08	1.175E-08	8.280E-09	6.197E-09	4.835E-09	3.888E-09	3.201E-09	2.684E-09
NE	5.821E-08	2.902E-08	1.823E-08	9.881E-09	6.359E-09	4.495E-09	3.371E-09	2.634E-09	2.121E-09	1.747E-09	1.466E-09
ENE	2.825E-08	1.388E-08	8.629E-09	4.616E-09	2.947E-09	2.070E-09	1.545E-09	1.203E-09	9.650E-10	7.928E-10	6.634E-10
E	3.946E-08	1.907E-08	1.171E-08	6.155E-09	3.877E-09	2.695E-09	1.994E-09	1.541E-09	1.229E-09	1.004E-09	8.356E-10
ESE	4.191E-08	2.030E-08	1.250E-08	6.603E-09	4.182E-09	2.921E-09	2.170E-09	1.683E-09	1.347E-09	1.104E-09	9.218E-10
SE	8.298E-08	4.108E-08	2.567E-08	1.383E-08	8.871E-09	6.254E-09	4.681E-09	3.652E-09	2.936E-09	2.417E-09	2.025E-09
SSE	1.002E-07	4.919E-08	3.056E-08	1.633E-08	1.042E-08	7.314E-09	5.457E-09	4.245E-09	3.406E-09	2.798E-09	2.341E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.495E-06	1.675E-06	4.949E-07	2.412E-07	1.453E-07	6.074E-08	1.921E-08	8.287E-09	4.735E-09	3.089E-09
SSW	4.010E-06	8.769E-07	2.528E-07	1.215E-07	7.247E-08	2.982E-08	9.199E-09	3.899E-09	2.206E-09	1.429E-09
SW	2.129E-06	4.639E-07	1.334E-07	6.402E-08	3.817E-08	1.570E-08	4.847E-09	2.055E-09	1.163E-09	7.542E-10
WSW	2.187E-06	4.747E-07	1.421E-07	6.986E-08	4.238E-08	1.793E-08	5.800E-09	2.552E-09	1.477E-09	9.735E-10
W	1.591E-06	3.442E-07	9.804E-08	4.677E-08	2.775E-08	1.131E-08	3.437E-09	1.441E-09	8.101E-10	5.228E-10
WNW	2.187E-06	4.641E-07	1.272E-07	5.932E-08	3.461E-08	1.376E-08	4.015E-09	1.635E-09	9.047E-10	5.773E-10
NW	5.753E-06	1.252E-06	3.662E-07	1.776E-07	1.067E-07	4.449E-08	1.405E-08	6.075E-09	3.483E-09	2.280E-09
NNW	7.771E-06	1.736E-06	5.347E-07	2.671E-07	1.638E-07	7.046E-08	2.337E-08	1.046E-08	6.110E-09	4.051E-09
N	1.177E-05	2.648E-06	8.124E-07	4.048E-07	2.478E-07	1.062E-07	3.504E-08	1.562E-08	9.104E-09	6.026E-09
NNE	6.632E-06	1.485E-06	4.502E-07	2.229E-07	1.358E-07	5.787E-08	1.890E-08	8.372E-09	4.863E-09	3.213E-09
NE	3.355E-06	7.539E-07	2.328E-07	1.164E-07	7.141E-08	3.071E-08	1.017E-08	4.542E-09	2.649E-09	1.754E-09
ENE	1.746E-06	3.875E-07	1.165E-07	5.735E-08	3.482E-08	1.474E-08	4.766E-09	2.094E-09	1.210E-09	7.959E-10
E	2.509E-06	5.680E-07	1.671E-07	8.124E-08	4.885E-08	2.033E-08	6.377E-09	2.730E-09	1.551E-09	1.008E-09
ESE	2.702E-06	6.048E-07	1.775E-07	8.624E-08	5.187E-08	2.164E-08	6.838E-09	2.957E-09	1.694E-09	1.108E-09
SE	4.923E-06	1.108E-06	3.371E-07	1.672E-07	1.020E-07	4.354E-08	1.426E-08	6.323E-09	3.673E-09	2.426E-09
SSE	6.194E-06	1.380E-06	4.140E-07	2.036E-07	1.235E-07	5.225E-08	1.687E-08	7.398E-09	4.272E-09	2.809E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.157E-07	7.293E-08	3.744E-08	1.780E-08	6.394E-09	3.171E-09	1.867E-09	1.223E-09	8.603E-10	6.376E-10	4.913E-10
SSW	1.258E-07	4.254E-08	2.184E-08	1.038E-08	3.730E-09	1.850E-09	1.089E-09	7.131E-10	5.018E-10	3.719E-10	2.866E-10
SW	6.286E-08	2.126E-08	1.091E-08	5.189E-09	1.864E-09	9.244E-10	5.443E-10	3.564E-10	2.508E-10	1.858E-10	1.432E-10
WSW	5.851E-08	1.979E-08	1.016E-08	4.830E-09	1.735E-09	8.604E-10	5.066E-10	3.317E-10	2.334E-10	1.730E-10	1.333E-10
W	5.629E-08	1.904E-08	9.774E-09	4.647E-09	1.669E-09	8.277E-10	4.874E-10	3.191E-10	2.246E-10	1.664E-10	1.282E-10
WNW	1.049E-07	3.546E-08	1.821E-08	8.657E-09	3.109E-09	1.542E-09	9.080E-10	5.945E-10	4.183E-10	3.100E-10	2.389E-10
NW	2.170E-07	7.337E-08	3.767E-08	1.791E-08	6.433E-09	3.190E-09	1.878E-09	1.230E-09	8.655E-10	6.414E-10	4.943E-10
NNW	2.157E-07	7.295E-08	3.746E-08	1.781E-08	6.397E-09	3.172E-09	1.868E-09	1.223E-09	8.606E-10	6.378E-10	4.915E-10
N	3.471E-07	1.174E-07	6.026E-08	2.865E-08	1.029E-08	5.103E-09	3.005E-09	1.968E-09	1.385E-09	1.026E-09	7.907E-10
NNE	2.046E-07	6.918E-08	3.552E-08	1.689E-08	6.066E-09	3.008E-09	1.771E-09	1.160E-09	8.161E-10	6.048E-10	4.661E-10
NE	7.510E-08	2.540E-08	1.304E-08	6.199E-09	2.227E-09	1.104E-09	6.502E-10	4.258E-10	2.996E-10	2.220E-10	1.711E-10
ENE	4.654E-08	1.574E-08	8.081E-09	3.842E-09	1.380E-09	6.844E-10	4.030E-10	2.639E-10	1.857E-10	1.376E-10	1.060E-10
E	7.993E-08	2.703E-08	1.388E-08	6.598E-09	2.370E-09	1.175E-09	6.920E-10	4.531E-10	3.189E-10	2.363E-10	1.821E-10
ESE	1.110E-07	3.753E-08	1.927E-08	9.162E-09	3.291E-09	1.632E-09	9.610E-10	6.293E-10	4.428E-10	3.281E-10	2.529E-10
SE	1.653E-07	5.590E-08	2.870E-08	1.365E-08	4.902E-09	2.431E-09	1.431E-09	9.372E-10	6.595E-10	4.887E-10	3.766E-10
SSE	2.298E-07	7.771E-08	3.990E-08	1.897E-08	6.814E-09	3.379E-09	1.990E-09	1.303E-09	9.167E-10	6.794E-10	5.235E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.903E-10	1.734E-10	1.050E-10	5.309E-11	3.213E-11	2.154E-11	1.544E-11	1.159E-11	9.013E-12	7.200E-12	5.877E-12
SSW	2.277E-10	1.011E-10	6.126E-11	3.097E-11	1.874E-11	1.257E-11	9.004E-12	6.761E-12	5.257E-12	4.199E-12	3.428E-12
SW	1.138E-10	5.054E-11	3.062E-11	1.548E-11	9.367E-12	6.280E-12	4.500E-12	3.379E-12	2.627E-12	2.099E-12	1.713E-12
WSW	1.059E-10	4.704E-11	2.850E-11	1.440E-11	8.718E-12	5.845E-12	4.188E-12	3.145E-12	2.445E-12	1.953E-12	1.594E-12
W	1.019E-10	4.526E-11	2.742E-11	1.386E-11	8.387E-12	5.623E-12	4.029E-12	3.026E-12	2.353E-12	1.879E-12	1.534E-12
WNW	1.898E-10	8.432E-11	5.108E-11	2.582E-11	1.563E-11	1.048E-11	7.507E-12	5.637E-12	4.383E-12	3.501E-12	2.858E-12
NW	3.927E-10	1.744E-10	1.057E-10	5.341E-11	3.233E-11	2.167E-11	1.553E-11	1.166E-11	9.068E-12	7.243E-12	5.912E-12
NNW	3.905E-10	1.735E-10	1.051E-10	5.311E-11	3.214E-11	2.155E-11	1.544E-11	1.160E-11	9.016E-12	7.202E-12	5.879E-12
N	6.282E-10	2.791E-10	1.690E-10	8.544E-11	5.171E-11	3.467E-11	2.484E-11	1.866E-11	1.451E-11	1.159E-11	9.457E-12
NNE	3.703E-10	1.645E-10	9.964E-11	5.036E-11	3.048E-11	2.044E-11	1.464E-11	1.100E-11	8.550E-12	6.830E-12	5.574E-12
NE	1.359E-10	6.038E-11	3.658E-11	1.849E-11	1.119E-11	7.503E-12	5.376E-12	4.037E-12	3.139E-12	2.507E-12	2.046E-12
ENE	8.424E-11	3.742E-11	2.267E-11	1.146E-11	6.935E-12	4.649E-12	3.332E-12	2.502E-12	1.945E-12	1.554E-12	1.268E-12
E	1.447E-10	6.427E-11	3.893E-11	1.968E-11	1.191E-11	7.985E-12	5.722E-12	4.296E-12	3.340E-12	2.668E-12	2.178E-12
ESE	2.009E-10	8.924E-11	5.406E-11	2.732E-11	1.654E-11	1.109E-11	7.945E-12	5.966E-12	4.639E-12	3.706E-12	3.025E-12
SE	2.992E-10	1.329E-10	8.052E-11	4.070E-11	2.463E-11	1.652E-11	1.183E-11	8.886E-12	6.909E-12	5.519E-12	4.505E-12
SSE	4.159E-10	1.848E-10	1.119E-10	5.657E-11	3.424E-11	2.296E-11	1.645E-11	1.235E-11	9.604E-12	7.672E-12	6.262E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.660E-08	7.497E-09	1.957E-09	8.790E-10	4.972E-10	1.912E-10	5.532E-11	2.193E-11	1.171E-11	7.247E-12
SSW	2.135E-08	4.373E-09	1.142E-09	5.127E-10	2.900E-10	1.115E-10	3.227E-11	1.279E-11	6.829E-12	4.227E-12
SW	1.067E-08	2.185E-09	5.705E-10	2.562E-10	1.449E-10	5.574E-11	1.613E-11	6.391E-12	3.413E-12	2.112E-12
WSW	9.930E-09	2.034E-09	5.310E-10	2.385E-10	1.349E-10	5.188E-11	1.501E-11	5.949E-12	3.177E-12	1.966E-12
W	9.553E-09	1.957E-09	5.108E-10	2.294E-10	1.298E-10	4.991E-11	1.444E-11	5.723E-12	3.056E-12	1.892E-12
WNW	1.780E-08	3.646E-09	9.517E-10	4.274E-10	2.418E-10	9.299E-11	2.690E-11	1.066E-11	5.693E-12	3.524E-12
NW	3.682E-08	7.542E-09	1.969E-09	8.843E-10	5.003E-10	1.924E-10	5.565E-11	2.206E-11	1.178E-11	7.291E-12
NNW	3.661E-08	7.499E-09	1.958E-09	8.793E-10	4.974E-10	1.913E-10	5.534E-11	2.193E-11	1.171E-11	7.249E-12
N	5.890E-08	1.206E-08	3.150E-09	1.415E-09	8.002E-10	3.077E-10	8.903E-11	3.529E-11	1.884E-11	1.166E-11
NNE	3.472E-08	7.111E-09	1.856E-09	8.338E-10	4.717E-10	1.814E-10	5.248E-11	2.080E-11	1.111E-11	6.874E-12
NE	1.275E-08	2.611E-09	6.815E-10	3.061E-10	1.732E-10	6.659E-11	1.926E-11	7.635E-12	4.077E-12	2.524E-12
ENE	7.898E-09	1.618E-09	4.224E-10	1.897E-10	1.073E-10	4.127E-11	1.194E-11	4.732E-12	2.527E-12	1.564E-12
E	1.356E-08	2.779E-09	7.254E-10	3.258E-10	1.843E-10	7.087E-11	2.050E-11	8.126E-12	4.339E-12	2.686E-12
ESE	1.884E-08	3.858E-09	1.007E-09	4.524E-10	2.559E-10	9.842E-11	2.847E-11	1.128E-11	6.026E-12	3.730E-12
SE	2.806E-08	5.747E-09	1.500E-09	6.738E-10	3.812E-10	1.466E-10	4.241E-11	1.681E-11	8.975E-12	5.555E-12
SSE	3.900E-08	7.988E-09	2.085E-09	9.366E-10	5.298E-10	2.038E-10	5.895E-11	2.336E-11	1.248E-11	7.722E-12

VENTS GROUND LEVEL RELEASES - JAN-JUN 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	7.4E-06	7.4E-06	6.6E-06	3.2E-08
A	Site Boundary	SSW	.82	3.7E-06	3.7E-06	3.2E-06	1.7E-08
A	Site Boundary	SW	.97	1.3E-06	1.3E-06	1.1E-06	5.5E-09
A	Site Boundary	WSW	.93	1.5E-06	1.5E-06	1.3E-06	5.9E-09
A	Site Boundary	W	.91	1.1E-06	1.1E-06	9.9E-07	5.9E-09
A	Site Boundary	WNW	.94	1.5E-06	1.4E-06	1.3E-06	1.0E-08
A	Site Boundary	NW	.81	5.4E-06	5.4E-06	4.8E-06	3.1E-08
A	Site Boundary	NNW	.69	1.0E-05	1.0E-05	9.1E-06	4.3E-08
A	Site Boundary	N	.67	1.6E-05	1.6E-05	1.4E-05	7.2E-08
A	Site Boundary	NNE	.60	1.1E-05	1.1E-05	9.7E-06	5.1E-08
A	Site Boundary	NE	.62	5.1E-06	5.1E-06	4.6E-06	1.8E-08
A	Site Boundary	ENE	.59	2.9E-06	2.9E-06	2.6E-06	1.2E-08
A	Site Boundary	E	.53	4.9E-06	4.9E-06	4.5E-06	2.5E-08
A	Site Boundary	ESE	.54	5.1E-06	5.1E-06	4.7E-06	3.3E-08
A	Site Boundary	SE	.65	7.0E-06	7.0E-06	6.3E-06	3.7E-08
A	Site Boundary	SSE	.81	5.9E-06	5.8E-06	5.2E-06	3.3E-08
A	Nearest Res	SW	1.30	6.6E-07	6.6E-07	5.7E-07	2.7E-09
A	Nearest Res	WSW	1.30	6.7E-07	6.7E-07	5.8E-07	2.5E-09
A	Nearest Res	W	1.00	9.1E-07	9.0E-07	7.9E-07	4.6E-09
A	Nearest Res	WNW	1.70	3.5E-07	3.5E-07	3.0E-07	2.3E-09
A	Nearest Res	NW	.90	4.2E-06	4.2E-06	3.7E-06	2.4E-08
A	Nearest Res	NNW	1.90	1.1E-06	1.1E-06	9.2E-07	3.6E-09
A	Nearest Res	N	3.00	6.8E-07	6.7E-07	5.4E-07	2.0E-09
A	Nearest Res	ENE	1.70	3.1E-07	3.1E-07	2.6E-07	1.0E-09
A	Nearest Res	E	1.90	3.5E-07	3.5E-07	2.9E-07	1.3E-09
A	Nearest Res	ESE	2.30	2.5E-07	2.5E-07	2.0E-07	1.2E-09
A	Nearest Res	SE	3.20	2.5E-07	2.5E-07	2.0E-07	8.1E-10
A	Nearest Cow	NNW	3.50	3.4E-07	3.3E-07	2.6E-07	8.6E-10
A	Nearest Garde	SW	2.20	2.1E-07	2.1E-07	1.7E-07	7.4E-10
A	Nearest Garde	WSW	1.90	3.0E-07	2.9E-07	2.5E-07	9.7E-10
A	Nearest Garde	WNW	2.40	1.6E-07	1.6E-07	1.3E-07	1.0E-09
A	Nearest Garde	ESE	3.00	1.5E-07	1.5E-07	1.2E-07	6.3E-10
A	Nearest Garde	SE	3.50	2.1E-07	2.1E-07	1.6E-07	6.6E-10

Atmospheric Diffusion Estimates

Ground Level Releases

July-September 2005

VENTS GROUND LEVEL RELEASES - JUL-SEP 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.583E-05	1.492E-05	8.080E-06	4.087E-06	1.652E-06	8.989E-07	5.718E-07	4.003E-07	2.988E-07	2.336E-07	1.890E-07
SSW	2.344E-05	8.187E-06	4.402E-06	2.190E-06	8.556E-07	4.543E-07	2.837E-07	1.956E-07	1.442E-07	1.115E-07	8.936E-08
SW	1.364E-05	4.651E-06	2.523E-06	1.267E-06	4.960E-07	2.636E-07	1.646E-07	1.135E-07	8.366E-08	6.468E-08	5.181E-08
WSW	1.645E-05	5.831E-06	3.152E-06	1.568E-06	6.054E-07	3.188E-07	1.978E-07	1.357E-07	9.955E-08	7.666E-08	6.121E-08
W	1.023E-05	3.501E-06	1.873E-06	9.289E-07	3.576E-07	1.879E-07	1.164E-07	7.972E-08	5.844E-08	4.497E-08	3.588E-08
WNW	1.347E-05	4.825E-06	2.570E-06	1.265E-06	4.812E-07	2.506E-07	1.540E-07	1.048E-07	7.639E-08	5.848E-08	4.643E-08
NW	3.201E-05	1.109E-05	5.947E-06	2.953E-06	1.148E-06	6.076E-07	3.785E-07	2.606E-07	1.918E-07	1.481E-07	1.185E-07
NNW	8.137E-05	2.669E-05	1.432E-05	7.201E-06	2.921E-06	1.592E-06	1.015E-06	7.113E-07	5.317E-07	4.160E-07	3.369E-07
N	1.179E-04	3.736E-05	1.990E-05	1.001E-05	4.090E-06	2.240E-06	1.433E-06	1.008E-06	7.550E-07	5.921E-07	4.803E-07
NNE	7.273E-05	2.248E-05	1.185E-05	5.963E-06	2.461E-06	1.358E-06	8.729E-07	6.164E-07	4.635E-07	3.645E-07	2.965E-07
NE	5.060E-05	1.546E-05	8.062E-06	4.050E-06	1.697E-06	9.453E-07	6.120E-07	4.345E-07	3.281E-07	2.590E-07	2.113E-07
ENE	3.037E-05	9.340E-06	4.881E-06	2.451E-06	1.023E-06	5.684E-07	3.674E-07	2.604E-07	1.964E-07	1.549E-07	1.263E-07
E	3.677E-05	1.128E-05	5.803E-06	2.889E-06	1.218E-06	6.816E-07	4.428E-07	3.152E-07	2.386E-07	1.887E-07	1.542E-07
ESE	2.921E-05	8.905E-06	4.707E-06	2.383E-06	9.980E-07	5.555E-07	3.594E-07	2.550E-07	1.924E-07	1.518E-07	1.238E-07
SE	4.181E-05	1.252E-05	6.507E-06	3.275E-06	1.386E-06	7.768E-07	5.052E-07	3.599E-07	2.726E-07	2.157E-07	1.763E-07
SSE	6.156E-05	1.902E-05	9.942E-06	4.991E-06	2.089E-06	1.163E-06	7.523E-07	5.339E-07	4.030E-07	3.181E-07	2.594E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.570E-07	8.200E-08	5.374E-08	3.131E-08	2.144E-08	1.601E-08	1.263E-08	1.034E-08	8.704E-09	7.479E-09	6.532E-09
SSW	7.364E-08	3.727E-08	2.389E-08	1.351E-08	9.057E-09	6.658E-09	5.184E-09	4.200E-09	3.502E-09	2.985E-09	2.588E-09
SW	4.267E-08	2.152E-08	1.376E-08	7.756E-09	5.198E-09	3.818E-09	2.972E-09	2.406E-09	2.005E-09	1.708E-09	1.481E-09
WSW	5.028E-08	2.513E-08	1.596E-08	8.909E-09	5.928E-09	4.331E-09	3.355E-09	2.706E-09	2.247E-09	1.909E-09	1.650E-09
W	2.946E-08	1.469E-08	9.326E-09	5.214E-09	3.488E-09	2.559E-09	1.990E-09	1.610E-09	1.341E-09	1.142E-09	9.895E-10
WNW	3.796E-08	1.862E-08	1.166E-08	6.385E-09	4.194E-09	3.033E-09	2.330E-09	1.866E-09	1.541E-09	1.302E-09	1.120E-09
NW	9.760E-08	4.920E-08	3.147E-08	1.775E-08	1.192E-08	8.765E-09	6.830E-09	5.536E-09	4.619E-09	3.939E-09	3.417E-09
NNW	2.801E-07	1.466E-07	9.622E-08	5.619E-08	3.854E-08	2.882E-08	2.276E-08	1.866E-08	1.571E-08	1.351E-08	1.181E-08
N	4.001E-07	2.109E-07	1.391E-07	8.180E-08	5.637E-08	4.231E-08	3.352E-08	2.754E-08	2.325E-08	2.003E-08	1.754E-08
NNE	2.475E-07	1.316E-07	8.729E-08	5.176E-08	3.589E-08	2.707E-08	2.152E-08	1.774E-08	1.501E-08	1.296E-08	1.137E-08
NE	1.769E-07	9.482E-08	6.328E-08	3.779E-08	2.631E-08	1.990E-08	1.586E-08	1.310E-08	1.110E-08	9.603E-09	8.436E-09
ENE	1.056E-07	5.647E-08	3.762E-08	2.241E-08	1.558E-08	1.177E-08	9.374E-09	7.738E-09	6.557E-09	5.668E-09	4.977E-09
E	1.293E-07	6.969E-08	4.668E-08	2.802E-08	1.957E-08	1.484E-08	1.185E-08	9.806E-09	8.326E-09	7.210E-09	6.341E-09
ESE	1.036E-07	5.543E-08	3.694E-08	2.201E-08	1.530E-08	1.155E-08	9.198E-09	7.590E-09	6.429E-09	5.556E-09	4.877E-09
SE	1.478E-07	7.975E-08	5.344E-08	3.209E-08	2.242E-08	1.701E-08	1.358E-08	1.124E-08	9.541E-09	8.262E-09	7.266E-09
SSE	2.171E-07	1.163E-07	7.757E-08	4.629E-08	3.220E-08	2.434E-08	1.939E-08	1.601E-08	1.357E-08	1.173E-08	1.030E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.825E-06	1.858E-06	5.904E-07	3.030E-07	1.904E-07	8.611E-08	3.191E-08	1.611E-08	1.037E-08	7.491E-09
SSW	4.260E-06	9.738E-07	2.940E-07	1.465E-07	9.010E-08	3.941E-08	1.384E-08	6.708E-09	4.215E-09	2.991E-09
SW	2.438E-06	5.641E-07	1.705E-07	8.496E-08	5.224E-08	2.277E-08	7.953E-09	3.848E-09	2.415E-09	1.712E-09
WSW	3.043E-06	6.918E-07	2.052E-07	1.012E-07	6.174E-08	2.664E-08	9.151E-09	4.366E-09	2.716E-09	1.913E-09
W	1.815E-06	4.091E-07	1.208E-07	5.939E-08	3.619E-08	1.559E-08	5.361E-09	2.579E-09	1.616E-09	1.144E-09
WNW	2.491E-06	5.529E-07	1.601E-07	7.769E-08	4.686E-08	1.983E-08	6.584E-09	3.062E-09	1.875E-09	1.305E-09
NW	5.759E-06	1.309E-06	3.924E-07	1.948E-07	1.195E-07	5.207E-08	1.820E-08	8.831E-09	5.557E-09	3.947E-09
NNW	1.391E-05	3.281E-06	1.047E-06	5.389E-07	3.393E-07	1.539E-07	5.724E-08	2.899E-08	1.871E-08	1.353E-08
N	1.939E-05	4.584E-06	1.478E-06	7.651E-07	4.837E-07	2.210E-07	8.323E-08	4.254E-08	2.761E-08	2.006E-08
NNE	1.160E-05	2.749E-06	8.996E-07	4.695E-07	2.985E-07	1.377E-07	5.260E-08	2.720E-08	1.778E-08	1.298E-08
NE	7.923E-06	1.886E-06	6.299E-07	3.322E-07	2.127E-07	9.904E-08	3.835E-08	1.999E-08	1.313E-08	9.616E-09
ENE	4.792E-06	1.138E-06	3.782E-07	1.989E-07	1.271E-07	5.902E-08	2.276E-08	1.183E-08	7.756E-09	5.675E-09
E	5.726E-06	1.351E-06	4.554E-07	2.415E-07	1.552E-07	7.270E-08	2.841E-08	1.491E-08	9.827E-09	7.219E-09
ESE	4.607E-06	1.109E-06	3.699E-07	1.948E-07	1.246E-07	5.791E-08	2.235E-08	1.161E-08	7.607E-09	5.563E-09
SE	6.408E-06	1.535E-06	5.195E-07	2.758E-07	1.774E-07	8.319E-08	3.254E-08	1.708E-08	1.126E-08	8.272E-09
SSE	9.758E-06	2.322E-06	7.743E-07	4.080E-07	2.611E-07	1.215E-07	4.698E-08	2.445E-08	1.604E-08	1.174E-08

VENTS GROUND LEVEL RELEASES - JUL-SEP 2005

2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.575E-05	1.487E-05	8.042E-06	4.061E-06	1.636E-06	8.870E-07	5.623E-07	3.922E-07	2.918E-07	2.273E-07	1.832E-07
SSW	2.341E-05	8.168E-06	4.387E-06	2.180E-06	8.494E-07	4.499E-07	2.802E-07	1.927E-07	1.417E-07	1.093E-07	8.733E-08
SW	1.362E-05	4.641E-06	2.515E-06	1.262E-06	4.926E-07	2.611E-07	1.626E-07	1.119E-07	8.226E-08	6.343E-08	5.068E-08
WSW	1.644E-05	5.821E-06	3.144E-06	1.562E-06	6.021E-07	3.165E-07	1.960E-07	1.342E-07	9.826E-08	7.552E-08	6.018E-08
W	1.022E-05	3.495E-06	1.868E-06	9.257E-07	3.557E-07	1.865E-07	1.153E-07	7.884E-08	5.769E-08	4.430E-08	3.528E-08
WNW	1.346E-05	4.817E-06	2.564E-06	1.261E-06	4.787E-07	2.488E-07	1.526E-07	1.037E-07	7.544E-08	5.764E-08	4.569E-08
NW	3.198E-05	1.107E-05	5.930E-06	2.942E-06	1.141E-06	6.030E-07	3.748E-07	2.575E-07	1.891E-07	1.457E-07	1.164E-07
NNW	8.124E-05	2.661E-05	1.426E-05	7.157E-06	2.893E-06	1.572E-06	9.982E-07	6.974E-07	5.195E-07	4.051E-07	3.269E-07
N	1.177E-04	3.724E-05	1.980E-05	9.951E-06	4.051E-06	2.211E-06	1.409E-06	9.876E-07	7.375E-07	5.763E-07	4.659E-07
NNE	7.258E-05	2.239E-05	1.179E-05	5.919E-06	2.433E-06	1.337E-06	8.558E-07	6.018E-07	4.506E-07	3.530E-07	2.859E-07
NE	5.048E-05	1.539E-05	8.009E-06	4.014E-06	1.674E-06	9.283E-07	5.982E-07	4.227E-07	3.177E-07	2.496E-07	2.027E-07
ENE	3.030E-05	9.298E-06	4.849E-06	2.430E-06	1.010E-06	5.584E-07	3.592E-07	2.534E-07	1.903E-07	1.494E-07	1.212E-07
E	3.668E-05	1.123E-05	5.762E-06	2.862E-06	1.201E-06	6.686E-07	4.322E-07	3.061E-07	2.306E-07	1.814E-07	1.475E-07
ESE	2.914E-05	8.864E-06	4.675E-06	2.362E-06	9.846E-07	5.455E-07	3.513E-07	2.480E-07	1.863E-07	1.463E-07	1.188E-07
SE	4.170E-05	1.246E-05	6.461E-06	3.244E-06	1.366E-06	7.619E-07	4.930E-07	3.495E-07	2.634E-07	2.074E-07	1.687E-07
SSE	6.142E-05	1.893E-05	9.880E-06	4.949E-06	2.062E-06	1.143E-06	7.361E-07	5.200E-07	3.908E-07	3.070E-07	2.493E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.517E-07	7.783E-08	5.011E-08	2.819E-08	1.865E-08	1.347E-08	1.028E-08	8.150E-09	6.645E-09	5.536E-09	4.690E-09
SSW	7.178E-08	3.584E-08	2.267E-08	1.247E-08	8.141E-09	5.827E-09	4.420E-09	3.489E-09	2.835E-09	2.356E-09	1.993E-09
SW	4.164E-08	2.073E-08	1.309E-08	7.190E-09	4.699E-09	3.367E-09	2.557E-09	2.020E-09	1.644E-09	1.367E-09	1.158E-09
WSW	4.934E-08	2.442E-08	1.536E-08	8.412E-09	5.492E-09	3.937E-09	2.993E-09	2.370E-09	1.932E-09	1.611E-09	1.368E-09
W	2.890E-08	1.427E-08	8.969E-09	4.914E-09	3.222E-09	2.318E-09	1.768E-09	1.403E-09	1.147E-09	9.585E-10	8.153E-10
WNW	3.728E-08	1.812E-08	1.125E-08	6.045E-09	3.900E-09	2.770E-09	2.091E-09	1.645E-09	1.334E-09	1.108E-09	9.365E-10
NW	9.563E-08	4.769E-08	3.017E-08	1.666E-08	1.094E-08	7.883E-09	6.016E-09	4.778E-09	3.906E-09	3.265E-09	2.778E-09
NNW	2.709E-07	1.393E-07	8.987E-08	5.072E-08	3.363E-08	2.434E-08	1.861E-08	1.478E-08	1.208E-08	1.008E-08	8.554E-09
N	3.868E-07	2.003E-07	1.298E-07	7.377E-08	4.916E-08	3.572E-08	2.740E-08	2.183E-08	1.788E-08	1.496E-08	1.273E-08
NNE	2.377E-07	1.238E-07	8.044E-08	4.581E-08	3.054E-08	2.217E-08	1.698E-08	1.350E-08	1.103E-08	9.206E-09	7.811E-09
NE	1.689E-07	8.842E-08	5.765E-08	3.289E-08	2.190E-08	1.586E-08	1.212E-08	9.611E-09	7.830E-09	6.514E-09	5.510E-09
ENE	1.009E-07	5.270E-08	3.431E-08	1.953E-08	1.299E-08	9.403E-09	7.180E-09	5.689E-09	4.633E-09	3.853E-09	3.258E-09
E	1.231E-07	6.472E-08	4.231E-08	2.420E-08	1.613E-08	1.169E-08	8.928E-09	7.076E-09	5.762E-09	4.791E-09	4.050E-09
ESE	9.891E-08	5.171E-08	3.367E-08	1.918E-08	1.275E-08	9.225E-09	7.041E-09	5.577E-09	4.540E-09	3.773E-09	3.189E-09
SE	1.408E-07	7.409E-08	4.846E-08	2.775E-08	1.851E-08	1.342E-08	1.026E-08	8.135E-09	6.628E-09	5.513E-09	4.662E-09
SSE	2.077E-07	1.088E-07	7.094E-08	4.050E-08	2.699E-08	1.957E-08	1.496E-08	1.188E-08	9.686E-09	8.066E-09	6.831E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.791E-06	1.842E-06	5.809E-07	2.959E-07	1.846E-07	8.193E-08	2.882E-08	1.358E-08	8.185E-09	5.551E-09
SSW	4.246E-06	9.675E-07	2.905E-07	1.439E-07	8.807E-08	3.797E-08	1.281E-08	5.881E-09	3.506E-09	2.364E-09
SW	2.430E-06	5.606E-07	1.686E-07	8.355E-08	5.111E-08	2.198E-08	7.394E-09	3.398E-09	2.030E-09	1.372E-09
WSW	3.036E-06	6.884E-07	2.034E-07	9.985E-08	6.071E-08	2.593E-08	8.659E-09	3.974E-09	2.381E-09	1.616E-09
W	1.811E-06	4.072E-07	1.197E-07	5.863E-08	3.559E-08	1.517E-08	5.063E-09	2.339E-09	1.410E-09	9.613E-10
WNW	2.485E-06	5.503E-07	1.587E-07	7.673E-08	4.612E-08	1.932E-08	6.248E-09	2.800E-09	1.654E-09	1.111E-09
NW	5.744E-06	1.302E-06	3.887E-07	1.921E-07	1.174E-07	5.056E-08	1.712E-08	7.953E-09	4.800E-09	3.275E-09
NNW	1.385E-05	3.253E-06	1.031E-06	5.267E-07	3.293E-07	1.466E-07	5.182E-08	2.453E-08	1.485E-08	1.011E-08
N	1.930E-05	4.544E-06	1.455E-06	7.475E-07	4.693E-07	2.104E-07	7.529E-08	3.598E-08	2.192E-08	1.500E-08
NNE	1.154E-05	2.720E-06	8.824E-07	4.566E-07	2.879E-07	1.298E-07	4.672E-08	2.233E-08	1.356E-08	9.231E-09
NE	7.874E-06	1.863E-06	6.160E-07	3.217E-07	2.041E-07	9.262E-08	3.351E-08	1.598E-08	9.650E-09	6.532E-09
ENE	4.762E-06	1.125E-06	3.700E-07	1.927E-07	1.220E-07	5.524E-08	1.991E-08	9.470E-09	5.713E-09	3.864E-09
E	5.688E-06	1.334E-06	4.448E-07	2.334E-07	1.485E-07	6.773E-08	2.464E-08	1.177E-08	7.105E-09	4.804E-09
ESE	4.578E-06	1.096E-06	3.618E-07	1.887E-07	1.196E-07	5.418E-08	1.954E-08	9.292E-09	5.600E-09	3.784E-09
SE	6.365E-06	1.515E-06	5.073E-07	2.667E-07	1.698E-07	7.751E-08	2.824E-08	1.351E-08	8.168E-09	5.528E-09
SSE	9.701E-06	2.295E-06	7.581E-07	3.958E-07	2.510E-07	1.139E-07	4.126E-08	1.970E-08	1.192E-08	8.088E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 2005
8.000 DAY DECAY, DEPLETED

CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.335E-05	1.361E-05	7.191E-06	3.571E-06	1.399E-06	7.415E-07	4.609E-07	3.161E-07	2.316E-07	1.779E-07	1.416E-07
SSW	2.218E-05	7.471E-06	3.919E-06	1.915E-06	7.251E-07	3.752E-07	2.290E-07	1.547E-07	1.120E-07	8.512E-08	6.712E-08
SW	1.290E-05	4.245E-06	2.246E-06	1.108E-06	4.204E-07	2.177E-07	1.329E-07	8.979E-08	6.497E-08	4.938E-08	3.893E-08
WSW	1.557E-05	5.322E-06	2.807E-06	1.371E-06	5.133E-07	2.634E-07	1.598E-07	1.074E-07	7.739E-08	5.860E-08	4.606E-08
W	9.676E-06	3.196E-06	1.667E-06	8.123E-07	3.032E-07	1.553E-07	9.402E-08	6.312E-08	4.543E-08	3.437E-08	2.700E-08
WNW	1.275E-05	4.404E-06	2.289E-06	1.106E-06	4.081E-07	2.071E-07	1.244E-07	8.300E-08	5.940E-08	4.471E-08	3.495E-08
NW	3.029E-05	1.012E-05	5.295E-06	2.582E-06	9.734E-07	5.021E-07	3.058E-07	2.063E-07	1.491E-07	1.132E-07	8.917E-08
NNW	7.698E-05	2.435E-05	1.275E-05	6.293E-06	2.474E-06	1.314E-06	8.180E-07	5.618E-07	4.121E-07	3.169E-07	2.525E-07
N	1.115E-04	3.409E-05	1.771E-05	8.750E-06	3.464E-06	1.848E-06	1.155E-06	7.957E-07	5.852E-07	4.510E-07	3.600E-07
NNE	6.879E-05	2.051E-05	1.055E-05	5.209E-06	2.083E-06	1.119E-06	7.031E-07	4.863E-07	3.588E-07	2.773E-07	2.218E-07
NE	4.786E-05	1.410E-05	7.171E-06	3.536E-06	1.436E-06	7.788E-07	4.925E-07	3.424E-07	2.537E-07	1.967E-07	1.579E-07
ENE	2.872E-05	8.519E-06	4.341E-06	2.140E-06	8.656E-07	4.683E-07	2.957E-07	2.053E-07	1.519E-07	1.177E-07	9.437E-08
E	3.478E-05	1.029E-05	5.161E-06	2.522E-06	1.030E-06	5.613E-07	3.562E-07	2.483E-07	1.844E-07	1.432E-07	1.151E-07
ESE	2.763E-05	8.121E-06	4.186E-06	2.081E-06	8.443E-07	4.576E-07	2.892E-07	2.009E-07	1.488E-07	1.153E-07	9.251E-08
SE	3.954E-05	1.142E-05	5.787E-06	2.859E-06	1.172E-06	6.397E-07	4.064E-07	2.835E-07	2.106E-07	1.637E-07	1.316E-07
SSE	5.822E-05	1.734E-05	8.844E-06	4.358E-06	1.767E-06	9.580E-07	6.056E-07	4.209E-07	3.117E-07	2.417E-07	1.939E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.159E-07	5.694E-08	3.538E-08	1.888E-08	1.202E-08	8.415E-09	6.260E-09	4.857E-09	3.885E-09	3.182E-09	2.654E-09
SSW	5.449E-08	2.598E-08	1.581E-08	8.206E-09	5.127E-09	3.542E-09	2.608E-09	2.006E-09	1.593E-09	1.297E-09	1.077E-09
SW	3.159E-08	1.501E-08	9.113E-09	4.718E-09	2.948E-09	2.036E-09	1.499E-09	1.153E-09	9.163E-10	7.461E-10	6.195E-10
WSW	3.728E-08	1.757E-08	1.061E-08	5.449E-09	3.387E-09	2.331E-09	1.712E-09	1.314E-09	1.043E-09	8.482E-10	7.036E-10
W	2.184E-08	1.027E-08	6.196E-09	3.187E-09	1.990E-09	1.375E-09	1.013E-09	7.802E-10	6.205E-10	5.058E-10	4.205E-10
WNW	2.815E-08	1.302E-08	7.756E-09	3.909E-09	2.399E-09	1.636E-09	1.192E-09	9.088E-10	7.168E-10	5.802E-10	4.792E-10
NW	7.233E-08	3.438E-08	2.089E-08	1.084E-08	6.787E-09	4.700E-09	3.468E-09	2.674E-09	2.129E-09	1.737E-09	1.445E-09
NNW	2.068E-07	1.018E-07	6.337E-08	3.391E-08	2.162E-08	1.516E-08	1.129E-08	8.771E-09	7.023E-09	5.757E-09	4.807E-09
N	2.954E-07	1.465E-07	9.160E-08	4.934E-08	3.161E-08	2.225E-08	1.662E-08	1.294E-08	1.039E-08	8.532E-09	7.137E-09
NNE	1.824E-07	9.112E-08	5.727E-08	3.105E-08	1.998E-08	1.410E-08	1.056E-08	8.234E-09	6.615E-09	5.437E-09	4.549E-09
NE	1.301E-07	6.551E-08	4.138E-08	2.256E-08	1.455E-08	1.029E-08	7.708E-09	6.013E-09	4.832E-09	3.971E-09	3.322E-09
ENE	7.771E-08	3.903E-08	2.461E-08	1.339E-08	8.622E-09	6.089E-09	4.560E-09	3.555E-09	2.855E-09	2.345E-09	1.961E-09
E	9.501E-08	4.809E-08	3.048E-08	1.669E-08	1.079E-08	7.643E-09	5.735E-09	4.479E-09	3.601E-09	2.961E-09	2.479E-09
ESE	7.620E-08	3.830E-08	2.416E-08	1.315E-08	8.465E-09	5.977E-09	4.475E-09	3.488E-09	2.800E-09	2.300E-09	1.923E-09
SE	1.087E-07	5.504E-08	3.490E-08	1.912E-08	1.237E-08	8.764E-09	6.578E-09	5.138E-09	4.133E-09	3.399E-09	2.846E-09
SSE	1.598E-07	8.042E-08	5.078E-08	2.767E-08	1.784E-08	1.261E-08	9.448E-09	7.370E-09	5.922E-09	4.867E-09	4.073E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.009E-06	1.590E-06	4.778E-07	2.353E-07	1.429E-07	6.047E-08	1.950E-08	8.513E-09	4.888E-09	3.195E-09
SSW	3.818E-06	8.339E-07	2.383E-07	1.140E-07	6.778E-08	2.780E-08	8.528E-09	3.591E-09	2.021E-09	1.303E-09
SW	2.185E-06	4.831E-07	1.382E-07	6.612E-08	3.931E-08	1.607E-08	4.908E-09	2.064E-09	1.162E-09	7.496E-10
WSW	2.728E-06	5.928E-07	1.665E-07	7.881E-08	4.652E-08	1.886E-08	5.679E-09	2.365E-09	1.325E-09	8.523E-10
W	1.627E-06	3.506E-07	9.799E-08	4.627E-08	2.727E-08	1.103E-08	3.324E-09	1.395E-09	7.860E-10	5.082E-10
WNW	2.233E-06	4.739E-07	1.299E-07	6.055E-08	3.532E-08	1.404E-08	4.093E-09	1.662E-09	9.164E-10	5.833E-10
NW	5.162E-06	1.121E-06	3.183E-07	1.517E-07	9.004E-08	3.682E-08	1.127E-08	4.764E-09	2.693E-09	1.745E-09
NNW	1.246E-05	2.807E-06	8.477E-07	4.186E-07	2.547E-07	1.081E-07	3.499E-08	1.533E-08	8.826E-09	5.780E-09
N	1.737E-05	3.920E-06	1.196E-06	5.942E-07	3.630E-07	1.552E-07	5.085E-08	2.249E-08	1.302E-08	8.565E-09
NNE	1.039E-05	2.349E-06	7.273E-07	3.641E-07	2.237E-07	9.636E-08	3.196E-08	1.425E-08	8.282E-09	5.457E-09
NE	7.095E-06	1.610E-06	5.088E-07	2.573E-07	1.591E-07	6.914E-08	2.318E-08	1.039E-08	6.047E-09	3.986E-09
ENE	4.291E-06	9.722E-07	3.055E-07	1.541E-07	9.511E-08	4.122E-08	1.376E-08	6.153E-09	3.575E-09	2.354E-09
E	5.128E-06	1.153E-06	3.677E-07	1.870E-07	1.160E-07	5.069E-08	1.713E-08	7.720E-09	4.503E-09	2.972E-09
ESE	4.125E-06	9.473E-07	2.988E-07	1.509E-07	9.323E-08	4.044E-08	1.351E-08	6.040E-09	3.508E-09	2.309E-09
SE	5.738E-06	1.310E-06	4.194E-07	2.136E-07	1.326E-07	5.800E-08	1.963E-08	8.851E-09	5.166E-09	3.411E-09
SSE	8.740E-06	1.983E-06	6.257E-07	3.162E-07	1.954E-07	8.489E-08	2.844E-08	1.274E-08	7.412E-09	4.886E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.592E-07	5.382E-08	2.763E-08	1.314E-08	4.719E-09	2.340E-09	1.378E-09	9.023E-10	6.349E-10	4.705E-10	3.626E-10
SSW	1.092E-07	3.692E-08	1.895E-08	9.011E-09	3.237E-09	1.605E-09	9.452E-10	6.189E-10	4.355E-10	3.227E-10	2.487E-10
SW	6.332E-08	2.141E-08	1.099E-08	5.227E-09	1.878E-09	9.311E-10	5.482E-10	3.590E-10	2.526E-10	1.872E-10	1.443E-10
WSW	9.154E-08	3.095E-08	1.589E-08	7.556E-09	2.714E-09	1.346E-09	7.926E-10	5.190E-10	3.652E-10	2.706E-10	2.085E-10
W	6.868E-08	2.322E-08	1.192E-08	5.669E-09	2.036E-09	1.010E-09	5.946E-10	3.894E-10	2.740E-10	2.030E-10	1.565E-10
WNW	8.496E-08	2.873E-08	1.475E-08	7.013E-09	2.519E-09	1.249E-09	7.356E-10	4.816E-10	3.389E-10	2.512E-10	1.935E-10
NW	2.104E-07	7.116E-08	3.654E-08	1.737E-08	6.239E-09	3.094E-09	1.822E-09	1.193E-09	8.394E-10	6.221E-10	4.794E-10
NNW	3.201E-07	1.082E-07	5.558E-08	2.642E-08	9.491E-09	4.707E-09	2.772E-09	1.815E-09	1.277E-09	9.463E-10	7.293E-10
N	5.597E-07	1.893E-07	9.718E-08	4.620E-08	1.660E-08	8.230E-09	4.846E-09	3.173E-09	2.233E-09	1.655E-09	1.275E-09
NNE	2.128E-07	7.196E-08	3.695E-08	1.756E-08	6.309E-09	3.129E-09	1.842E-09	1.206E-09	8.489E-10	6.291E-10	4.848E-10
NE	8.613E-08	2.912E-08	1.495E-08	7.109E-09	2.554E-09	1.266E-09	7.457E-10	4.883E-10	3.436E-10	2.546E-10	1.962E-10
ENE	5.796E-08	1.960E-08	1.006E-08	4.784E-09	1.718E-09	8.522E-10	5.018E-10	3.286E-10	2.312E-10	1.713E-10	1.320E-10
E	5.623E-08	1.902E-08	9.764E-09	4.642E-09	1.667E-09	8.269E-10	4.869E-10	3.188E-10	2.243E-10	1.662E-10	1.281E-10
ESE	4.597E-08	1.554E-08	7.981E-09	3.794E-09	1.363E-09	6.759E-10	3.980E-10	2.606E-10	1.834E-10	1.359E-10	1.047E-10
SE	5.871E-08	1.985E-08	1.019E-08	4.846E-09	1.741E-09	8.633E-10	5.083E-10	3.328E-10	2.342E-10	1.736E-10	1.338E-10
SSE	1.312E-07	4.436E-08	2.278E-08	1.083E-08	3.889E-09	1.929E-09	1.136E-09	7.437E-10	5.233E-10	3.878E-10	2.988E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.880E-10	1.280E-10	7.751E-11	3.918E-11	2.371E-11	1.590E-11	1.139E-11	8.554E-12	6.651E-12	5.313E-12	4.337E-12
SSW	1.976E-10	8.777E-11	5.317E-11	2.687E-11	1.627E-11	1.091E-11	7.815E-12	5.868E-12	4.562E-12	3.645E-12	2.975E-12
SW	1.146E-10	5.091E-11	3.084E-11	1.559E-11	9.435E-12	6.326E-12	4.533E-12	3.404E-12	2.646E-12	2.114E-12	1.725E-12
WSW	1.657E-10	7.360E-11	4.458E-11	2.253E-11	1.364E-11	9.145E-12	6.553E-12	4.920E-12	3.826E-12	3.056E-12	2.494E-12
W	1.243E-10	5.522E-11	3.345E-11	1.691E-11	1.023E-11	6.861E-12	4.916E-12	3.692E-12	2.870E-12	2.293E-12	1.871E-12
WNW	1.538E-10	6.831E-11	4.138E-11	2.091E-11	1.266E-11	8.487E-12	6.081E-12	4.567E-12	3.551E-12	2.836E-12	2.315E-12
NW	3.809E-10	1.692E-10	1.025E-10	5.180E-11	3.135E-11	2.102E-11	1.506E-11	1.131E-11	8.795E-12	7.025E-12	5.734E-12
NNW	5.794E-10	2.574E-10	1.559E-10	7.880E-11	4.769E-11	3.198E-11	2.291E-11	1.721E-11	1.338E-11	1.069E-11	8.723E-12
N	1.013E-09	4.500E-10	2.726E-10	1.378E-10	8.339E-11	5.591E-11	4.007E-11	3.008E-11	2.339E-11	1.869E-11	1.525E-11
NNE	3.851E-10	1.711E-10	1.036E-10	5.238E-11	3.171E-11	2.126E-11	1.523E-11	1.144E-11	8.893E-12	7.104E-12	5.798E-12
NE	1.559E-10	6.925E-11	4.195E-11	2.120E-11	1.283E-11	8.604E-12	6.165E-12	4.629E-12	3.599E-12	2.875E-12	2.347E-12
ENE	1.049E-10	4.660E-11	2.823E-11	1.427E-11	8.636E-12	5.790E-12	4.149E-12	3.115E-12	2.422E-12	1.935E-12	1.579E-12
E	1.018E-10	4.521E-11	2.739E-11	1.384E-11	8.379E-12	5.618E-12	4.025E-12	3.023E-12	2.350E-12	1.877E-12	1.532E-12
ESE	8.319E-11	3.696E-11	2.239E-11	1.132E-11	6.849E-12	4.592E-12	3.290E-12	2.471E-12	1.921E-12	1.535E-12	1.253E-12
SE	1.063E-10	4.721E-11	2.859E-11	1.445E-11	8.748E-12	5.865E-12	4.203E-12	3.156E-12	2.454E-12	1.960E-12	1.600E-12
SSE	2.374E-10	1.055E-10	6.389E-11	3.229E-11	1.954E-11	1.310E-11	9.390E-12	7.051E-12	5.482E-12	4.379E-12	3.574E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.701E-08	5.532E-09	1.444E-09	6.486E-10	3.669E-10	1.411E-10	4.082E-11	1.618E-11	8.640E-12	5.348E-12
SSW	1.853E-08	3.795E-09	9.907E-10	4.449E-10	2.517E-10	9.680E-11	2.800E-11	1.110E-11	5.927E-12	3.668E-12
SW	1.075E-08	2.201E-09	5.746E-10	2.581E-10	1.460E-10	5.615E-11	1.624E-11	6.438E-12	3.438E-12	2.128E-12
WSW	1.554E-08	3.182E-09	8.307E-10	3.731E-10	2.111E-10	8.117E-11	2.348E-11	9.306E-12	4.970E-12	3.076E-12
W	1.166E-08	2.387E-09	6.233E-10	2.799E-10	1.584E-10	6.090E-11	1.762E-11	6.982E-12	3.729E-12	2.308E-12
WNW	1.442E-08	2.953E-09	7.710E-10	3.463E-10	1.959E-10	7.533E-11	2.179E-11	8.637E-12	4.612E-12	2.855E-12
NW	3.571E-08	7.315E-09	1.910E-09	8.577E-10	4.852E-10	1.866E-10	5.398E-11	2.139E-11	1.142E-11	7.071E-12
NNW	5.432E-08	1.113E-08	2.905E-09	1.305E-09	7.381E-10	2.838E-10	8.211E-11	3.254E-11	1.738E-11	1.076E-11
N	9.499E-08	1.946E-08	5.079E-09	2.281E-09	1.291E-09	4.963E-10	1.436E-10	5.690E-11	3.039E-11	1.881E-11
NNE	3.611E-08	7.397E-09	1.931E-09	8.673E-10	4.906E-10	1.887E-10	5.458E-11	2.163E-11	1.155E-11	7.151E-12
NE	1.462E-08	2.994E-09	7.816E-10	3.510E-10	1.986E-10	7.637E-11	2.209E-11	8.756E-12	4.676E-12	2.894E-12
ENE	9.836E-09	2.015E-09	5.260E-10	2.362E-10	1.336E-10	5.139E-11	1.487E-11	5.892E-12	3.147E-12	1.948E-12
E	9.543E-09	1.955E-09	5.103E-10	2.292E-10	1.297E-10	4.986E-11	1.442E-11	5.717E-12	3.053E-12	1.890E-12
ESE	7.801E-09	1.598E-09	4.171E-10	1.873E-10	1.060E-10	4.076E-11	1.179E-11	4.673E-12	2.496E-12	1.545E-12
SE	9.964E-09	2.041E-09	5.328E-10	2.393E-10	1.354E-10	5.206E-11	1.506E-11	5.969E-12	3.187E-12	1.973E-12
SSE	2.226E-08	4.560E-09	1.190E-09	5.346E-10	3.024E-10	1.163E-10	3.365E-11	1.334E-11	7.121E-12	4.408E-12

VENTS GROUND LEVEL RELEASES - JUL-SEP 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	7.0E-06	6.9E-06	6.2E-06	2.4E-08
A	Site Boundary	SSW	.82	3.5E-06	3.5E-06	3.1E-06	1.5E-08
A	Site Boundary	SW	.97	1.3E-06	1.3E-06	1.2E-06	5.6E-09
A	Site Boundary	WSW	.93	1.9E-06	1.9E-06	1.7E-06	9.2E-09
A	Site Boundary	W	.91	1.2E-06	1.2E-06	1.0E-06	7.2E-09
A	Site Boundary	WNW	.94	1.5E-06	1.5E-06	1.3E-06	8.3E-09
A	Site Boundary	NW	.81	4.9E-06	4.9E-06	4.4E-06	3.0E-08
A	Site Boundary	NNW	.69	1.6E-05	1.6E-05	1.5E-05	6.4E-08
A	Site Boundary	N	.67	2.3E-05	2.3E-05	2.1E-05	1.2E-07
A	Site Boundary	NNE	.60	1.7E-05	1.7E-05	1.5E-05	5.3E-08
A	Site Boundary	NE	.62	1.1E-05	1.1E-05	9.6E-06	2.0E-08
A	Site Boundary	ENE	.59	7.2E-06	7.1E-06	6.5E-06	1.5E-08
A	Site Boundary	E	.53	1.0E-05	1.0E-05	9.4E-06	1.8E-08
A	Site Boundary	ESE	.54	7.9E-06	7.8E-06	7.1E-06	1.4E-08
A	Site Boundary	SE	.65	8.1E-06	8.1E-06	7.3E-06	1.3E-08
A	Site Boundary	SSE	.81	8.2E-06	8.2E-06	7.3E-06	1.9E-08
A	Nearest Res	SW	1.30	6.9E-07	6.8E-07	5.9E-07	2.7E-09
A	Nearest Res	WSW	1.30	8.4E-07	8.4E-07	7.2E-07	3.9E-09
A	Nearest Res	W	1.00	9.3E-07	9.3E-07	8.1E-07	5.7E-09
A	Nearest Res	WNW	1.70	3.6E-07	3.6E-07	3.0E-07	1.9E-09
A	Nearest Res	NW	.90	3.8E-06	3.8E-06	3.4E-06	2.3E-08
A	Nearest Res	NNW	1.90	1.8E-06	1.7E-06	1.5E-06	5.3E-09
A	Nearest Res	N	3.00	1.0E-06	9.9E-07	8.0E-07	3.2E-09
A	Nearest Res	ENE	1.70	7.9E-07	7.8E-07	6.6E-07	1.3E-09
A	Nearest Res	E	1.90	7.5E-07	7.4E-07	6.2E-07	9.4E-10
A	Nearest Res	ESE	2.30	4.2E-07	4.1E-07	3.4E-07	4.8E-10
A	Nearest Res	SE	3.20	3.2E-07	3.1E-07	2.5E-07	2.9E-10
A	Nearest Cow	NNW	3.50	5.3E-07	5.2E-07	4.1E-07	1.3E-09
A	Nearest Garde	SW	2.20	2.2E-07	2.1E-07	1.8E-07	7.4E-10
A	Nearest Garde	WSW	1.90	3.6E-07	3.5E-07	3.0E-07	1.5E-09
A	Nearest Garde	WNW	2.40	1.7E-07	1.7E-07	1.4E-07	8.1E-10
A	Nearest Garde	ESE	3.00	2.5E-07	2.5E-07	2.0E-07	2.6E-10
A	Nearest Garde	SE	3.50	2.7E-07	2.6E-07	2.1E-07	2.3E-10

Atmospheric Diffusion Estimates

Ground Level Releases

October-December 2005

VENTS GROUND LEVEL RELEASES - OCT-DEC 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.778E-05	1.551E-05	8.260E-06	4.148E-06	1.689E-06	9.234E-07	5.895E-07	4.139E-07	3.097E-07	2.426E-07	1.966E-07
SSW	2.670E-05	8.639E-06	4.515E-06	2.245E-06	9.146E-07	5.001E-07	3.194E-07	2.243E-07	1.679E-07	1.316E-07	1.067E-07
SW	1.787E-05	6.002E-06	3.159E-06	1.566E-06	6.279E-07	3.397E-07	2.152E-07	1.502E-07	1.118E-07	8.723E-08	7.043E-08
WSW	6.958E-06	2.420E-06	1.315E-06	6.601E-07	2.579E-07	1.369E-07	8.538E-08	5.882E-08	4.332E-08	3.346E-08	2.679E-08
W	8.497E-06	2.682E-06	1.400E-06	6.980E-07	2.834E-07	1.546E-07	9.855E-08	6.913E-08	5.170E-08	4.047E-08	3.279E-08
WNW	1.639E-05	5.296E-06	2.744E-06	1.356E-06	5.519E-07	3.017E-07	1.927E-07	1.353E-07	1.013E-07	7.942E-08	6.440E-08
NW	2.895E-05	9.647E-06	5.053E-06	2.499E-06	9.966E-07	5.371E-07	3.392E-07	2.362E-07	1.755E-07	1.367E-07	1.102E-07
NNW	1.007E-04	3.063E-05	1.550E-05	7.663E-06	3.237E-06	1.814E-06	1.179E-06	8.403E-07	6.365E-07	5.037E-07	4.119E-07
N	6.857E-05	2.159E-05	1.124E-05	5.604E-06	2.317E-06	1.280E-06	8.239E-07	5.823E-07	4.381E-07	3.448E-07	2.806E-07
NNE	3.622E-05	1.145E-05	6.028E-06	3.018E-06	1.236E-06	6.785E-07	4.346E-07	3.060E-07	2.295E-07	1.802E-07	1.463E-07
NE	2.482E-05	7.981E-06	4.228E-06	2.121E-06	8.678E-07	4.759E-07	3.046E-07	2.143E-07	1.606E-07	1.260E-07	1.023E-07
ENE	1.203E-05	4.121E-06	2.235E-06	1.123E-06	4.464E-07	2.399E-07	1.512E-07	1.050E-07	7.792E-08	6.058E-08	4.877E-08
E	2.733E-05	8.977E-06	4.849E-06	2.447E-06	9.911E-07	5.397E-07	3.435E-07	2.406E-07	1.797E-07	1.406E-07	1.138E-07
ESE	3.177E-05	1.057E-05	5.671E-06	2.849E-06	1.148E-06	6.226E-07	3.951E-07	2.760E-07	2.057E-07	1.605E-07	1.297E-07
SE	3.697E-05	1.252E-05	6.758E-06	3.396E-06	1.356E-06	7.309E-07	4.615E-07	3.211E-07	2.385E-07	1.856E-07	1.495E-07
SSE	5.615E-05	1.820E-05	9.562E-06	4.770E-06	1.944E-06	1.063E-06	6.787E-07	4.766E-07	3.568E-07	2.795E-07	2.266E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.636E-07	8.579E-08	5.641E-08	3.302E-08	2.267E-08	1.697E-08	1.341E-08	1.100E-08	9.275E-09	7.980E-09	6.979E-09
SSW	8.879E-08	4.664E-08	3.071E-08	1.802E-08	1.240E-08	9.303E-09	7.365E-09	6.051E-09	5.107E-09	4.400E-09	3.852E-09
SW	5.843E-08	3.031E-08	1.978E-08	1.147E-08	7.830E-09	5.837E-09	4.598E-09	3.761E-09	3.163E-09	2.717E-09	2.372E-09
WSW	2.205E-08	1.108E-08	7.070E-09	3.967E-09	2.646E-09	1.937E-09	1.503E-09	1.214E-09	1.009E-09	8.581E-10	7.424E-10
W	2.727E-08	1.429E-08	9.396E-09	5.511E-09	3.801E-09	2.856E-09	2.264E-09	1.862E-09	1.573E-09	1.356E-09	1.188E-09
WNW	5.362E-08	2.820E-08	1.859E-08	1.093E-08	7.548E-09	5.675E-09	4.501E-09	3.704E-09	3.130E-09	2.700E-09	2.366E-09
NW	9.130E-08	4.714E-08	3.067E-08	1.772E-08	1.208E-08	8.997E-09	7.082E-09	5.791E-09	4.868E-09	4.180E-09	3.648E-09
NNW	3.454E-07	1.866E-07	1.252E-07	7.533E-08	5.272E-08	4.004E-08	3.201E-08	2.652E-08	2.254E-08	1.954E-08	1.720E-08
N	2.343E-07	1.246E-07	8.276E-08	4.910E-08	3.404E-08	2.567E-08	2.041E-08	1.683E-08	1.425E-08	1.230E-08	1.080E-08
NNE	1.219E-07	6.443E-08	4.258E-08	2.512E-08	1.736E-08	1.306E-08	1.036E-08	8.527E-09	7.208E-09	6.217E-09	5.449E-09
NE	8.519E-08	4.487E-08	2.959E-08	1.740E-08	1.199E-08	9.000E-09	7.129E-09	5.859E-09	4.947E-09	4.262E-09	3.732E-09
ENE	4.035E-08	2.070E-08	1.340E-08	7.673E-09	5.191E-09	3.841E-09	3.007E-09	2.447E-09	2.048E-09	1.752E-09	1.524E-09
E	9.455E-08	4.938E-08	3.237E-08	1.886E-08	1.292E-08	9.648E-09	7.610E-09	6.232E-09	5.245E-09	4.507E-09	3.937E-09
ESE	1.076E-07	5.581E-08	3.641E-08	2.107E-08	1.436E-08	1.069E-08	8.404E-09	6.866E-09	5.767E-09	4.948E-09	4.315E-09
SE	1.238E-07	6.360E-08	4.121E-08	2.364E-08	1.600E-08	1.185E-08	9.281E-09	7.556E-09	6.328E-09	5.414E-09	4.711E-09
SSE	1.886E-07	9.902E-08	6.516E-08	3.820E-08	2.626E-08	1.968E-08	1.557E-08	1.278E-08	1.078E-08	9.284E-09	8.124E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.044E-06	1.895E-06	6.083E-07	3.139E-07	1.980E-07	9.002E-08	3.362E-08	1.707E-08	1.103E-08	7.993E-09
SSW	4.422E-06	1.026E-06	3.296E-07	1.702E-07	1.074E-07	4.893E-08	1.834E-08	9.354E-09	6.067E-09	4.407E-09
SW	3.083E-06	7.083E-07	2.224E-07	1.134E-07	7.096E-08	3.188E-08	1.170E-08	5.873E-09	3.773E-09	2.721E-09
WSW	1.270E-06	2.935E-07	8.849E-08	4.399E-08	2.701E-08	1.174E-08	4.070E-09	1.953E-09	1.219E-09	8.601E-10
W	1.373E-06	3.183E-07	1.017E-07	5.240E-08	3.302E-08	1.500E-08	5.614E-09	2.871E-09	1.867E-09	1.358E-09
WNW	2.695E-06	6.195E-07	1.988E-07	1.027E-07	6.486E-08	2.958E-08	1.113E-08	5.705E-09	3.713E-09	2.704E-09
NW	4.939E-06	1.126E-06	3.508E-07	1.781E-07	1.110E-07	4.964E-08	1.809E-08	9.054E-09	5.808E-09	4.187E-09
NNW	1.538E-05	3.588E-06	1.213E-06	6.441E-07	4.145E-07	1.946E-07	7.636E-08	4.021E-08	2.657E-08	1.956E-08
N	1.104E-05	2.587E-06	8.489E-07	4.437E-07	2.825E-07	1.304E-07	4.989E-08	2.580E-08	1.687E-08	1.232E-08
NNE	5.895E-06	1.384E-06	4.482E-07	2.326E-07	1.473E-07	6.750E-08	2.555E-08	1.313E-08	8.548E-09	6.226E-09
NE	4.125E-06	9.720E-07	3.142E-07	1.628E-07	1.030E-07	4.704E-08	1.770E-08	9.049E-09	5.874E-09	4.269E-09
ENE	2.160E-06	5.050E-07	1.564E-07	7.906E-08	4.915E-08	2.182E-08	7.842E-09	3.868E-09	2.455E-09	1.755E-09
E	4.699E-06	1.114E-06	3.547E-07	1.822E-07	1.146E-07	5.186E-08	1.922E-08	9.705E-09	6.250E-09	4.514E-09
ESE	5.506E-06	1.292E-06	4.081E-07	2.086E-07	1.306E-07	5.869E-08	2.150E-08	1.075E-08	6.887E-09	4.956E-09
SE	6.545E-06	1.532E-06	4.772E-07	2.419E-07	1.507E-07	6.702E-08	2.415E-08	1.193E-08	7.581E-09	5.424E-09
SSE	9.351E-06	2.180E-06	7.003E-07	3.616E-07	2.282E-07	1.039E-07	3.888E-08	1.979E-08	1.282E-08	9.298E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.771E-05	1.547E-05	8.226E-06	4.125E-06	1.675E-06	9.131E-07	5.812E-07	4.069E-07	3.036E-07	2.371E-07	1.915E-07
SSW	2.666E-05	8.615E-06	4.496E-06	2.233E-06	9.069E-07	4.944E-07	3.148E-07	2.204E-07	1.645E-07	1.285E-07	1.039E-07
SW	1.785E-05	5.986E-06	3.147E-06	1.558E-06	6.230E-07	3.361E-07	2.123E-07	1.478E-07	1.097E-07	8.533E-08	6.870E-08
WSW	6.951E-06	2.415E-06	1.312E-06	6.576E-07	2.564E-07	1.358E-07	8.454E-08	5.812E-08	4.271E-08	3.293E-08	2.630E-08
W	8.485E-06	2.675E-06	1.395E-06	6.944E-07	2.811E-07	1.529E-07	9.722E-08	6.799E-08	5.070E-08	3.957E-08	3.197E-08
WNW	1.637E-05	5.282E-06	2.733E-06	1.349E-06	5.474E-07	2.983E-07	1.900E-07	1.330E-07	9.931E-08	7.759E-08	6.273E-08
NW	2.891E-05	9.626E-06	5.037E-06	2.489E-06	9.901E-07	5.323E-07	3.354E-07	2.329E-07	1.727E-07	1.341E-07	1.079E-07
NNW	1.005E-04	3.053E-05	1.543E-05	7.616E-06	3.207E-06	1.791E-06	1.161E-06	8.242E-07	6.222E-07	4.908E-07	4.000E-07
N	6.848E-05	2.154E-05	1.120E-05	5.577E-06	2.300E-06	1.267E-06	8.134E-07	5.733E-07	4.302E-07	3.376E-07	2.740E-07
NNE	3.617E-05	1.142E-05	6.006E-06	3.004E-06	1.227E-06	6.718E-07	4.292E-07	3.014E-07	2.255E-07	1.765E-07	1.429E-07
NE	2.479E-05	7.960E-06	4.211E-06	2.109E-06	8.608E-07	4.707E-07	3.004E-07	2.107E-07	1.575E-07	1.232E-07	9.969E-08
ENE	1.201E-05	4.113E-06	2.229E-06	1.119E-06	4.438E-07	2.380E-07	1.497E-07	1.038E-07	7.685E-08	5.961E-08	4.789E-08
E	2.729E-05	8.956E-06	4.833E-06	2.437E-06	9.844E-07	5.348E-07	3.396E-07	2.373E-07	1.768E-07	1.379E-07	1.114E-07
ESE	3.174E-05	1.055E-05	5.654E-06	2.838E-06	1.141E-06	6.175E-07	3.910E-07	2.725E-07	2.026E-07	1.578E-07	1.272E-07
SE	3.693E-05	1.250E-05	6.740E-06	3.384E-06	1.349E-06	7.254E-07	4.571E-07	3.174E-07	2.353E-07	1.827E-07	1.469E-07
SSE	5.608E-05	1.815E-05	9.528E-06	4.747E-06	1.929E-06	1.052E-06	6.702E-07	4.694E-07	3.504E-07	2.738E-07	2.213E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.589E-07	8.211E-08	5.318E-08	3.021E-08	2.013E-08	1.464E-08	1.123E-08	8.953E-09	7.334E-09	6.134E-09	5.216E-09
SSW	8.619E-08	4.458E-08	2.890E-08	1.644E-08	1.097E-08	7.985E-09	6.135E-09	4.893E-09	4.011E-09	3.356E-09	2.856E-09
SW	5.683E-08	2.906E-08	1.869E-08	1.052E-08	6.977E-09	5.053E-09	3.868E-09	3.076E-09	2.516E-09	2.101E-09	1.785E-09
WSW	2.160E-08	1.075E-08	6.781E-09	3.724E-09	2.432E-09	1.742E-09	1.323E-09	1.046E-09	8.512E-10	7.085E-10	6.001E-10
W	2.651E-08	1.368E-08	8.861E-09	5.043E-09	3.377E-09	2.463E-09	1.897E-09	1.516E-09	1.245E-09	1.044E-09	8.893E-10
WNW	5.207E-08	2.697E-08	1.750E-08	9.980E-09	6.682E-09	4.873E-09	3.752E-09	2.997E-09	2.460E-09	2.062E-09	1.756E-09
NW	8.913E-08	4.543E-08	2.918E-08	1.642E-08	1.090E-08	7.913E-09	6.071E-09	4.840E-09	3.967E-09	3.323E-09	2.830E-09
NNW	3.343E-07	1.776E-07	1.172E-07	6.825E-08	4.624E-08	3.403E-08	2.637E-08	2.119E-08	1.747E-08	1.470E-08	1.257E-08
N	2.282E-07	1.197E-07	7.838E-08	4.524E-08	3.052E-08	2.241E-08	1.735E-08	1.394E-08	1.150E-08	9.684E-09	8.288E-09
NNE	1.188E-07	6.194E-08	4.039E-08	2.319E-08	1.561E-08	1.144E-08	8.846E-09	7.098E-09	5.852E-09	4.925E-09	4.213E-09
NE	8.280E-08	4.298E-08	2.793E-08	1.594E-08	1.067E-08	7.786E-09	5.995E-09	4.791E-09	3.934E-09	3.298E-09	2.811E-09
ENE	3.954E-08	2.007E-08	1.286E-08	7.208E-09	4.774E-09	3.460E-09	2.653E-09	2.114E-09	1.734E-09	1.453E-09	1.238E-09
E	9.233E-08	4.763E-08	3.084E-08	1.754E-08	1.172E-08	8.545E-09	6.582E-09	5.264E-09	4.329E-09	3.635E-09	3.103E-09
ESE	1.053E-07	5.396E-08	3.479E-08	1.967E-08	1.309E-08	9.511E-09	7.308E-09	5.834E-09	4.789E-09	4.016E-09	3.425E-09
SE	1.213E-07	6.168E-08	3.954E-08	2.219E-08	1.470E-08	1.065E-08	8.167E-09	6.509E-09	5.337E-09	4.471E-09	3.810E-09
SSE	1.837E-07	9.513E-08	6.174E-08	3.519E-08	2.354E-08	1.716E-08	1.322E-08	1.056E-08	8.680E-09	7.282E-09	6.210E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.013E-06	1.881E-06	6.000E-07	3.077E-07	1.929E-07	8.632E-08	3.083E-08	1.474E-08	8.988E-09	6.150E-09
SSW	4.405E-06	1.018E-06	3.250E-07	1.668E-07	1.046E-07	4.686E-08	1.678E-08	8.042E-09	4.912E-09	3.365E-09
SW	3.072E-06	7.033E-07	2.195E-07	1.113E-07	6.923E-08	3.062E-08	1.076E-08	5.092E-09	3.089E-09	2.107E-09
WSW	1.266E-06	2.919E-07	8.764E-08	4.339E-08	2.652E-08	1.140E-08	3.829E-09	1.758E-09	1.051E-09	7.107E-10
W	1.368E-06	3.160E-07	1.004E-07	5.140E-08	3.220E-08	1.439E-08	5.151E-09	2.480E-09	1.521E-09	1.046E-09
WNW	2.684E-06	6.149E-07	1.961E-07	1.007E-07	6.318E-08	2.834E-08	1.019E-08	4.907E-09	3.008E-09	2.067E-09
NW	4.924E-06	1.120E-06	3.469E-07	1.752E-07	1.087E-07	4.792E-08	1.680E-08	7.974E-09	4.859E-09	3.331E-09
NNW	1.531E-05	3.557E-06	1.194E-06	6.298E-07	4.026E-07	1.856E-07	6.935E-08	3.422E-08	2.125E-08	1.473E-08
N	1.100E-05	2.569E-06	8.384E-07	4.358E-07	2.759E-07	1.254E-07	4.607E-08	2.255E-08	1.398E-08	9.705E-09
NNE	5.875E-06	1.375E-06	4.428E-07	2.285E-07	1.439E-07	6.500E-08	2.364E-08	1.151E-08	7.123E-09	4.936E-09
NE	4.110E-06	9.649E-07	3.100E-07	1.597E-07	1.004E-07	4.514E-08	1.627E-08	7.840E-09	4.808E-09	3.306E-09
ENE	2.154E-06	5.023E-07	1.549E-07	7.798E-08	4.827E-08	2.119E-08	7.381E-09	3.487E-09	2.123E-09	1.457E-09
E	4.684E-06	1.107E-06	3.507E-07	1.793E-07	1.122E-07	5.010E-08	1.791E-08	8.606E-09	5.284E-09	3.643E-09
ESE	5.491E-06	1.285E-06	4.040E-07	2.055E-07	1.281E-07	5.684E-08	2.010E-08	9.583E-09	5.857E-09	4.026E-09
SE	6.529E-06	1.524E-06	4.728E-07	2.387E-07	1.480E-07	6.509E-08	2.272E-08	1.074E-08	6.536E-09	4.483E-09
SSE	9.320E-06	2.166E-06	6.918E-07	3.552E-07	2.229E-07	9.997E-08	3.591E-08	1.728E-08	1.060E-08	7.299E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.520E-05	1.415E-05	7.352E-06	3.625E-06	1.431E-06	7.622E-07	4.756E-07	3.271E-07	2.403E-07	1.850E-07	1.475E-07
SSW	2.526E-05	7.883E-06	4.018E-06	1.962E-06	7.749E-07	4.128E-07	2.577E-07	1.773E-07	1.303E-07	1.003E-07	8.004E-08
SW	1.691E-05	5.477E-06	2.812E-06	1.369E-06	5.321E-07	2.804E-07	1.737E-07	1.187E-07	8.679E-08	6.654E-08	5.288E-08
WSW	6.583E-06	2.208E-06	1.171E-06	5.772E-07	2.187E-07	1.131E-07	6.897E-08	4.657E-08	3.367E-08	2.557E-08	2.015E-08
W	8.039E-06	2.448E-06	1.247E-06	6.101E-07	2.401E-07	1.276E-07	7.952E-08	5.465E-08	4.012E-08	3.087E-08	2.461E-08
WNW	1.551E-05	4.833E-06	2.443E-06	1.186E-06	4.676E-07	2.490E-07	1.554E-07	1.070E-07	7.862E-08	6.056E-08	4.833E-08
NW	2.739E-05	8.804E-06	4.499E-06	2.185E-06	8.448E-07	4.436E-07	2.739E-07	1.869E-07	1.363E-07	1.044E-07	8.281E-08
NNW	9.521E-05	2.795E-05	1.380E-05	6.696E-06	2.742E-06	1.496E-06	9.511E-07	6.638E-07	4.935E-07	3.838E-07	3.088E-07
N	6.487E-05	1.971E-05	1.001E-05	4.899E-06	1.964E-06	1.057E-06	6.650E-07	4.604E-07	3.401E-07	2.631E-07	2.107E-07
NNE	3.426E-05	1.045E-05	5.366E-06	2.638E-06	1.048E-06	5.603E-07	3.508E-07	2.420E-07	1.782E-07	1.375E-07	1.099E-07
NE	2.348E-05	7.283E-06	3.764E-06	1.853E-06	7.353E-07	3.929E-07	2.458E-07	1.694E-07	1.247E-07	9.612E-08	7.676E-08
ENE	1.138E-05	3.761E-06	1.991E-06	9.819E-07	3.785E-07	1.982E-07	1.221E-07	8.316E-08	6.057E-08	4.629E-08	3.668E-08
E	2.585E-05	8.192E-06	4.317E-06	2.140E-06	8.401E-07	4.457E-07	2.774E-07	1.904E-07	1.396E-07	1.073E-07	8.549E-08
ESE	3.006E-05	9.651E-06	5.049E-06	2.491E-06	9.732E-07	5.143E-07	3.191E-07	2.184E-07	1.598E-07	1.226E-07	9.750E-08
SE	3.498E-05	1.143E-05	6.018E-06	2.970E-06	1.150E-06	6.039E-07	3.728E-07	2.542E-07	1.854E-07	1.418E-07	1.125E-07
SSE	5.313E-05	1.660E-05	8.513E-06	4.170E-06	1.647E-06	8.776E-07	5.478E-07	3.770E-07	2.770E-07	2.133E-07	1.702E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.209E-07	5.973E-08	3.726E-08	2.001E-08	1.279E-08	8.994E-09	6.716E-09	5.228E-09	4.195E-09	3.446E-09	2.883E-09
SSW	6.563E-08	3.246E-08	2.027E-08	1.091E-08	6.990E-09	4.923E-09	3.681E-09	2.869E-09	2.305E-09	1.895E-09	1.586E-09
SW	4.321E-08	2.111E-08	1.308E-08	6.957E-09	4.422E-09	3.097E-09	2.305E-09	1.790E-09	1.433E-09	1.175E-09	9.815E-10
WSW	1.634E-08	7.745E-09	4.694E-09	2.423E-09	1.509E-09	1.040E-09	7.641E-10	5.870E-10	4.659E-10	3.790E-10	3.144E-10
W	2.017E-08	9.951E-09	6.207E-09	3.340E-09	2.145E-09	1.513E-09	1.133E-09	8.842E-10	7.111E-10	5.853E-10	4.905E-10
WNW	3.964E-08	1.963E-08	1.227E-08	6.622E-09	4.254E-09	3.003E-09	2.249E-09	1.756E-09	1.412E-09	1.162E-09	9.742E-10
NW	6.759E-08	3.288E-08	2.031E-08	1.078E-08	6.848E-09	4.794E-09	3.568E-09	2.771E-09	2.220E-09	1.821E-09	1.522E-09
NNW	2.551E-07	1.297E-07	8.253E-08	4.552E-08	2.963E-08	2.112E-08	1.594E-08	1.252E-08	1.012E-08	8.368E-09	7.041E-09
N	1.733E-07	8.685E-08	5.474E-08	2.982E-08	1.926E-08	1.365E-08	1.026E-08	8.029E-09	6.475E-09	5.342E-09	4.487E-09
NNE	9.023E-08	4.491E-08	2.818E-08	1.526E-08	9.828E-09	6.949E-09	5.214E-09	4.076E-09	3.283E-09	2.705E-09	2.270E-09
NE	6.299E-08	3.124E-08	1.955E-08	1.055E-08	6.769E-09	4.773E-09	3.573E-09	2.787E-09	2.240E-09	1.843E-09	1.544E-09
ENE	2.990E-08	1.446E-08	8.895E-09	4.686E-09	2.959E-09	2.062E-09	1.529E-09	1.184E-09	9.455E-10	7.738E-10	6.454E-10
E	7.000E-08	3.445E-08	2.145E-08	1.149E-08	7.333E-09	5.152E-09	3.846E-09	2.993E-09	2.402E-09	1.973E-09	1.651E-09
ESE	7.971E-08	3.897E-08	2.414E-08	1.284E-08	8.161E-09	5.713E-09	4.253E-09	3.302E-09	2.645E-09	2.169E-09	1.813E-09
SE	9.173E-08	4.444E-08	2.736E-08	1.443E-08	9.117E-09	6.355E-09	4.714E-09	3.650E-09	2.916E-09	2.387E-09	1.991E-09
SSE	1.395E-07	6.901E-08	4.310E-08	2.319E-08	1.485E-08	1.046E-08	7.821E-09	6.096E-09	4.898E-09	4.028E-09	3.374E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.207E-06	1.622E-06	4.926E-07	2.440E-07	1.488E-07	6.334E-08	2.064E-08	9.096E-09	5.260E-09	3.459E-09
SSW	3.963E-06	8.778E-07	2.669E-07	1.323E-07	8.072E-08	3.441E-08	1.125E-08	4.977E-09	2.886E-09	1.902E-09
SW	2.763E-06	6.062E-07	1.802E-07	8.821E-08	5.335E-08	2.245E-08	7.190E-09	3.133E-09	1.801E-09	1.180E-09
WSW	1.138E-06	2.514E-07	7.177E-08	3.427E-08	2.034E-08	8.298E-09	2.521E-09	1.054E-09	5.915E-10	3.808E-10
W	1.231E-06	2.723E-07	8.240E-08	4.075E-08	2.482E-08	1.056E-08	3.446E-09	1.529E-09	8.894E-10	5.875E-10
WNW	2.415E-06	5.300E-07	1.610E-07	7.984E-08	4.873E-08	2.081E-08	6.826E-09	3.035E-09	1.766E-09	1.167E-09
NW	4.427E-06	9.643E-07	2.843E-07	1.386E-07	8.356E-08	3.501E-08	1.115E-08	4.851E-09	2.789E-09	1.828E-09
NNW	1.379E-05	3.067E-06	9.816E-07	5.004E-07	3.111E-07	1.366E-07	4.668E-08	2.131E-08	1.258E-08	8.396E-09
N	9.892E-06	2.213E-06	6.877E-07	3.451E-07	2.124E-07	9.180E-08	3.066E-08	1.379E-08	8.074E-09	5.361E-09
NNE	5.283E-06	1.184E-06	3.631E-07	1.809E-07	1.108E-07	4.754E-08	1.572E-08	7.023E-09	4.099E-09	2.715E-09
NE	3.697E-06	8.316E-07	2.544E-07	1.266E-07	7.740E-08	3.310E-08	1.087E-08	4.825E-09	2.803E-09	1.850E-09
ENE	1.936E-06	4.325E-07	1.268E-07	6.158E-08	3.702E-08	1.542E-08	4.854E-09	2.088E-09	1.192E-09	7.771E-10
E	4.211E-06	9.536E-07	2.875E-07	1.418E-07	8.622E-08	3.657E-08	1.185E-08	5.211E-09	3.012E-09	1.981E-09
ESE	4.935E-06	1.107E-06	3.309E-07	1.624E-07	9.836E-08	4.143E-08	1.327E-08	5.782E-09	3.323E-09	2.178E-09
SE	5.866E-06	1.312E-06	3.870E-07	1.885E-07	1.135E-07	4.736E-08	1.494E-08	6.435E-09	3.674E-09	2.397E-09
SSE	8.381E-06	1.866E-06	5.674E-07	2.813E-07	1.716E-07	7.317E-08	2.391E-08	1.058E-08	6.133E-09	4.044E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.495E-07	5.054E-08	2.595E-08	1.234E-08	4.432E-09	2.198E-09	1.294E-09	8.474E-10	5.962E-10	4.419E-10	3.405E-10
SSW	8.003E-08	2.706E-08	1.390E-08	6.606E-09	2.373E-09	1.177E-09	6.929E-10	4.537E-10	3.192E-10	2.366E-10	1.823E-10
SW	6.519E-08	2.204E-08	1.132E-08	5.381E-09	1.933E-09	9.586E-10	5.644E-10	3.696E-10	2.601E-10	1.927E-10	1.485E-10
WSW	3.569E-08	1.207E-08	6.196E-09	2.946E-09	1.058E-09	5.247E-10	3.090E-10	2.023E-10	1.424E-10	1.055E-10	8.130E-11
W	3.262E-08	1.103E-08	5.664E-09	2.693E-09	9.673E-10	4.797E-10	2.824E-10	1.849E-10	1.301E-10	9.644E-11	7.432E-11
WNW	5.999E-08	2.029E-08	1.042E-08	4.952E-09	1.779E-09	8.822E-10	5.194E-10	3.401E-10	2.393E-10	1.774E-10	1.367E-10
NW	1.618E-07	5.471E-08	2.809E-08	1.335E-08	4.797E-09	2.379E-09	1.401E-09	9.172E-10	6.454E-10	4.783E-10	3.686E-10
NNW	2.462E-07	8.324E-08	4.274E-08	2.032E-08	7.299E-09	3.620E-09	2.131E-09	1.396E-09	9.820E-10	7.277E-10	5.608E-10
N	3.082E-07	1.042E-07	5.351E-08	2.544E-08	9.138E-09	4.532E-09	2.668E-09	1.747E-09	1.229E-09	9.111E-10	7.021E-10
NNE	1.567E-07	5.298E-08	2.720E-08	1.293E-08	4.646E-09	2.304E-09	1.357E-09	8.883E-10	6.250E-10	4.632E-10	3.570E-10
NE	9.050E-08	3.060E-08	1.571E-08	7.471E-09	2.683E-09	1.331E-09	7.836E-10	5.131E-10	3.610E-10	2.676E-10	2.062E-10
ENE	6.929E-08	2.343E-08	1.203E-08	5.719E-09	2.054E-09	1.019E-09	5.999E-10	3.928E-10	2.764E-10	2.048E-10	1.579E-10
E	1.303E-07	4.406E-08	2.262E-08	1.075E-08	3.863E-09	1.916E-09	1.128E-09	7.386E-10	5.197E-10	3.852E-10	2.968E-10
ESE	2.111E-07	7.139E-08	3.665E-08	1.743E-08	6.259E-09	3.104E-09	1.828E-09	1.197E-09	8.421E-10	6.241E-10	4.809E-10
SE	2.541E-07	8.592E-08	4.411E-08	2.097E-08	7.533E-09	3.736E-09	2.200E-09	1.440E-09	1.014E-09	7.511E-10	5.788E-10
SSE	2.650E-07	8.960E-08	4.600E-08	2.187E-08	7.856E-09	3.896E-09	2.294E-09	1.502E-09	1.057E-09	7.833E-10	6.036E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.705E-10	1.202E-10	7.280E-11	3.679E-11	2.227E-11	1.493E-11	1.070E-11	8.034E-12	6.247E-12	4.990E-12	4.073E-12
SSW	1.448E-10	6.435E-11	3.898E-11	1.970E-11	1.192E-11	7.995E-12	5.729E-12	4.302E-12	3.345E-12	2.672E-12	2.181E-12
SW	1.180E-10	5.241E-11	3.175E-11	1.605E-11	9.713E-12	6.513E-12	4.667E-12	3.504E-12	2.725E-12	2.176E-12	1.776E-12
WSW	6.459E-11	2.869E-11	1.738E-11	8.785E-12	5.317E-12	3.565E-12	2.554E-12	1.918E-12	1.491E-12	1.191E-12	9.724E-13
W	5.904E-11	2.623E-11	1.589E-11	8.031E-12	4.861E-12	3.259E-12	2.335E-12	1.753E-12	1.363E-12	1.089E-12	8.889E-13
WNW	1.086E-10	4.824E-11	2.922E-11	1.477E-11	8.939E-12	5.993E-12	4.295E-12	3.225E-12	2.507E-12	2.003E-12	1.635E-12
NW	2.928E-10	1.301E-10	7.880E-11	3.983E-11	2.411E-11	1.616E-11	1.158E-11	8.696E-12	6.762E-12	5.401E-12	4.409E-12
NNW	4.455E-10	1.979E-10	1.199E-10	6.060E-11	3.668E-11	2.459E-11	1.762E-11	1.323E-11	1.029E-11	8.218E-12	6.708E-12
N	5.578E-10	2.478E-10	1.501E-10	7.587E-11	4.592E-11	3.079E-11	2.206E-11	1.657E-11	1.288E-11	1.029E-11	8.398E-12
NNE	2.836E-10	1.260E-10	7.631E-11	3.857E-11	2.335E-11	1.565E-11	1.122E-11	8.422E-12	6.548E-12	5.231E-12	4.270E-12
NE	1.638E-10	7.277E-11	4.408E-11	2.228E-11	1.348E-11	9.041E-12	6.478E-12	4.865E-12	3.782E-12	3.021E-12	2.466E-12
ENE	1.254E-10	5.571E-11	3.375E-11	1.706E-11	1.032E-11	6.922E-12	4.960E-12	3.724E-12	2.896E-12	2.313E-12	1.888E-12
E	2.358E-10	1.048E-10	6.346E-11	3.207E-11	1.941E-11	1.302E-11	9.326E-12	7.003E-12	5.445E-12	4.350E-12	3.550E-12
ESE	3.821E-10	1.697E-10	1.028E-10	5.197E-11	3.145E-11	2.109E-11	1.511E-11	1.135E-11	8.823E-12	7.048E-12	5.752E-12
SE	4.598E-10	2.043E-10	1.237E-10	6.255E-11	3.786E-11	2.538E-11	1.819E-11	1.366E-11	1.062E-11	8.482E-12	6.923E-12
SSE	4.796E-10	2.130E-10	1.290E-10	6.523E-11	3.948E-11	2.647E-11	1.897E-11	1.424E-11	1.107E-11	8.846E-12	7.220E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.537E-08	5.196E-09	1.356E-09	6.092E-10	3.446E-10	1.325E-10	3.834E-11	1.520E-11	8.115E-12	5.023E-12
SSW	1.358E-08	2.782E-09	7.263E-10	3.262E-10	1.845E-10	7.096E-11	2.053E-11	8.136E-12	4.345E-12	2.689E-12
SW	1.106E-08	2.266E-09	5.916E-10	2.657E-10	1.503E-10	5.780E-11	1.672E-11	6.628E-12	3.539E-12	2.191E-12
WSW	6.056E-09	1.240E-09	3.238E-10	1.454E-10	8.228E-11	3.164E-11	9.154E-12	3.628E-12	1.937E-12	1.199E-12
W	5.536E-09	1.134E-09	2.960E-10	1.330E-10	7.522E-11	2.893E-11	8.368E-12	3.317E-12	1.771E-12	1.096E-12
WNW	1.018E-08	2.085E-09	5.444E-10	2.445E-10	1.383E-10	5.319E-11	1.539E-11	6.099E-12	3.257E-12	2.016E-12
NW	2.746E-08	5.624E-09	1.468E-09	6.594E-10	3.730E-10	1.435E-10	4.150E-11	1.645E-11	8.783E-12	5.437E-12
NNW	4.178E-08	8.557E-09	2.234E-09	1.003E-09	5.676E-10	2.183E-10	6.314E-11	2.503E-11	1.336E-11	8.272E-12
N	5.230E-08	1.071E-08	2.797E-09	1.256E-09	7.106E-10	2.733E-10	7.905E-11	3.133E-11	1.673E-11	1.036E-11
NNE	2.659E-08	5.447E-09	1.422E-09	6.386E-10	3.613E-10	1.389E-10	4.019E-11	1.593E-11	8.506E-12	5.265E-12
NE	1.536E-08	3.146E-09	8.213E-10	3.689E-10	2.087E-10	8.025E-11	2.322E-11	9.201E-12	4.913E-12	3.041E-12
ENE	1.176E-08	2.409E-09	6.288E-10	2.824E-10	1.598E-10	6.143E-11	1.777E-11	7.044E-12	3.762E-12	2.328E-12
E	2.211E-08	4.529E-09	1.182E-09	5.310E-10	3.004E-10	1.155E-10	3.342E-11	1.325E-11	7.073E-12	4.378E-12
ESE	3.583E-08	7.338E-09	1.916E-09	8.604E-10	4.867E-10	1.872E-10	5.415E-11	2.146E-11	1.146E-11	7.094E-12
SE	4.312E-08	8.832E-09	2.306E-09	1.036E-09	5.858E-10	2.253E-10	6.517E-11	2.583E-11	1.379E-11	8.538E-12
SSE	4.497E-08	9.211E-09	2.404E-09	1.080E-09	6.109E-10	2.349E-10	6.797E-11	2.694E-11	1.438E-11	8.904E-12

VENTS GROUND LEVEL RELEASES - OCT-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	7.1E-06	7.1E-06	6.3E-06	2.2E-08
A	Site Boundary	SSW	.82	3.6E-06	3.6E-06	3.2E-06	1.1E-08
A	Site Boundary	SW	.97	1.7E-06	1.7E-06	1.5E-06	5.7E-09
A	Site Boundary	WSW	.93	8.0E-07	7.9E-07	7.0E-07	3.6E-09
A	Site Boundary	W	.91	8.7E-07	8.6E-07	7.6E-07	3.4E-09
A	Site Boundary	WNW	.94	1.6E-06	1.6E-06	1.4E-06	5.8E-09
A	Site Boundary	NW	.81	4.2E-06	4.2E-06	3.7E-06	2.3E-08
A	Site Boundary	NNW	.69	1.8E-05	1.8E-05	1.6E-05	5.0E-08
A	Site Boundary	N	.67	1.3E-05	1.3E-05	1.2E-05	6.4E-08
A	Site Boundary	NNE	.60	8.6E-06	8.5E-06	7.7E-06	3.9E-08
A	Site Boundary	NE	.62	5.6E-06	5.6E-06	5.0E-06	2.1E-08
A	Site Boundary	ENE	.59	3.2E-06	3.2E-06	2.9E-06	1.8E-08
A	Site Boundary	E	.53	8.3E-06	8.3E-06	7.6E-06	4.1E-08
A	Site Boundary	ESE	.54	9.4E-06	9.4E-06	8.6E-06	6.3E-08
A	Site Boundary	SE	.65	8.4E-06	8.4E-06	7.5E-06	5.6E-08
A	Site Boundary	SSE	.81	7.9E-06	7.9E-06	7.0E-06	3.8E-08
A	Nearest Res	SW	1.30	8.6E-07	8.6E-07	7.4E-07	2.8E-09
A	Nearest Res	WSW	1.30	3.6E-07	3.6E-07	3.1E-07	1.5E-09
A	Nearest Res	W	1.00	7.0E-07	6.9E-07	6.1E-07	2.7E-09
A	Nearest Res	WNW	1.70	4.2E-07	4.2E-07	3.5E-07	1.3E-09
A	Nearest Res	NW	.90	3.2E-06	3.2E-06	2.8E-06	1.8E-08
A	Nearest Res	NNW	1.90	2.0E-06	2.0E-06	1.7E-06	4.1E-09
A	Nearest Res	N	3.00	5.8E-07	5.7E-07	4.6E-07	1.7E-09
A	Nearest Res	ENE	1.70	3.4E-07	3.4E-07	2.8E-07	1.5E-09
A	Nearest Res	E	1.90	6.0E-07	5.9E-07	5.0E-07	2.2E-09
A	Nearest Res	ESE	2.30	4.7E-07	4.6E-07	3.8E-07	2.2E-09
A	Nearest Res	SE	3.20	2.8E-07	2.8E-07	2.2E-07	1.2E-09
A	Nearest Cow	NNW	3.50	6.4E-07	6.2E-07	4.9E-07	9.8E-10
A	Nearest Garde	SW	2.20	2.8E-07	2.8E-07	2.3E-07	7.6E-10
A	Nearest Garde	WSW	1.90	1.5E-07	1.5E-07	1.3E-07	5.9E-10
A	Nearest Garde	WNW	2.40	2.1E-07	2.1E-07	1.7E-07	5.7E-10
A	Nearest Garde	ESE	3.00	2.8E-07	2.7E-07	2.2E-07	1.2E-09
A	Nearest Garde	SE	3.50	2.4E-07	2.4E-07	1.9E-07	1.0E-09

Atmospheric Diffusion Estimates

Ground Level Releases

July-December 2005

VENTS GROUND LEVEL RELEASES - JUL-DEC 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.746E-05	1.541E-05	8.265E-06	4.164E-06	1.691E-06	9.227E-07	5.882E-07	4.125E-07	3.084E-07	2.414E-07	1.955E-07
SSW	2.579E-05	8.618E-06	4.558E-06	2.267E-06	9.068E-07	4.897E-07	3.098E-07	2.160E-07	1.607E-07	1.252E-07	1.010E-07
SW	1.620E-05	5.458E-06	2.904E-06	1.447E-06	5.752E-07	3.092E-07	1.949E-07	1.355E-07	1.005E-07	7.817E-08	6.295E-08
WSW	1.165E-05	4.103E-06	2.222E-06	1.108E-06	4.296E-07	2.268E-07	1.410E-07	9.683E-08	7.114E-08	5.484E-08	4.382E-08
W	9.599E-06	3.157E-06	1.668E-06	8.290E-07	3.275E-07	1.753E-07	1.102E-07	7.642E-08	5.661E-08	4.396E-08	3.536E-08
WNW	1.553E-05	5.231E-06	2.739E-06	1.351E-06	5.344E-07	2.865E-07	1.802E-07	1.251E-07	9.269E-08	7.201E-08	5.794E-08
NW	3.097E-05	1.050E-05	5.563E-06	2.757E-06	1.086E-06	5.805E-07	3.644E-07	2.524E-07	1.867E-07	1.449E-07	1.164E-07
NNW	9.440E-05	2.962E-05	1.536E-05	7.648E-06	3.175E-06	1.759E-06	1.134E-06	8.028E-07	6.049E-07	4.766E-07	3.882E-07
N	9.251E-05	2.925E-05	1.545E-05	7.745E-06	3.178E-06	1.746E-06	1.119E-06	7.886E-07	5.918E-07	4.647E-07	3.774E-07
NNE	5.309E-05	1.656E-05	8.738E-06	4.390E-06	1.805E-06	9.937E-07	6.377E-07	4.497E-07	3.377E-07	2.654E-07	2.157E-07
NE	3.638E-05	1.134E-05	5.957E-06	2.993E-06	1.242E-06	6.876E-07	4.431E-07	3.134E-07	2.360E-07	1.858E-07	1.513E-07
ENE	2.008E-05	6.409E-06	3.401E-06	1.710E-06	7.010E-07	3.849E-07	2.465E-07	1.735E-07	1.301E-07	1.021E-07	8.291E-08
E	3.095E-05	9.819E-06	5.182E-06	2.600E-06	1.074E-06	5.927E-07	3.812E-07	2.692E-07	2.025E-07	1.592E-07	1.295E-07
ESE	3.023E-05	9.671E-06	5.158E-06	2.601E-06	1.066E-06	5.848E-07	3.743E-07	2.633E-07	1.974E-07	1.548E-07	1.256E-07
SE	3.824E-05	1.221E-05	6.483E-06	3.263E-06	1.338E-06	7.348E-07	4.706E-07	3.312E-07	2.483E-07	1.949E-07	1.581E-07
SSE	5.823E-05	1.843E-05	9.671E-06	4.841E-06	1.998E-06	1.102E-06	7.085E-07	5.001E-07	3.759E-07	2.956E-07	2.404E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.626E-07	8.515E-08	5.592E-08	3.268E-08	2.242E-08	1.677E-08	1.325E-08	1.086E-08	9.148E-09	7.868E-09	6.877E-09
SSW	8.378E-08	4.338E-08	2.827E-08	1.636E-08	1.115E-08	8.304E-09	6.535E-09	5.343E-09	4.490E-09	3.854E-09	3.363E-09
SW	5.210E-08	2.677E-08	1.736E-08	9.972E-09	6.769E-09	5.023E-09	3.942E-09	3.215E-09	2.697E-09	2.310E-09	2.013E-09
WSW	3.602E-08	1.804E-08	1.148E-08	6.418E-09	4.275E-09	3.125E-09	2.422E-09	1.955E-09	1.624E-09	1.380E-09	1.193E-09
W	2.923E-08	1.498E-08	9.692E-09	5.567E-09	3.790E-09	2.819E-09	2.217E-09	1.811E-09	1.521E-09	1.305E-09	1.139E-09
WNW	4.793E-08	2.460E-08	1.594E-08	9.160E-09	6.227E-09	4.627E-09	3.636E-09	2.969E-09	2.493E-09	2.138E-09	1.864E-09
NW	9.618E-08	4.914E-08	3.174E-08	1.815E-08	1.229E-08	9.108E-09	7.139E-09	5.817E-09	4.875E-09	4.174E-09	3.634E-09
NNW	3.245E-07	1.731E-07	1.152E-07	6.853E-08	4.760E-08	3.595E-08	2.861E-08	2.361E-08	2.000E-08	1.729E-08	1.518E-08
N	3.147E-07	1.664E-07	1.101E-07	6.495E-08	4.486E-08	3.374E-08	2.676E-08	2.202E-08	1.861E-08	1.605E-08	1.406E-08
NNE	1.799E-07	9.537E-08	6.316E-08	3.736E-08	2.587E-08	1.948E-08	1.547E-08	1.275E-08	1.078E-08	9.306E-09	8.160E-09
NE	1.264E-07	6.728E-08	4.469E-08	2.653E-08	1.839E-08	1.387E-08	1.103E-08	9.090E-09	7.694E-09	6.644E-09	5.829E-09
ENE	6.909E-08	3.643E-08	2.404E-08	1.415E-08	9.751E-09	7.321E-09	5.800E-09	4.767E-09	4.024E-09	3.468E-09	3.036E-09
E	1.081E-07	5.742E-08	3.808E-08	2.255E-08	1.560E-08	1.175E-08	9.331E-09	7.685E-09	6.500E-09	5.609E-09	4.918E-09
ESE	1.046E-07	5.507E-08	3.629E-08	2.130E-08	1.465E-08	1.098E-08	8.690E-09	7.135E-09	6.018E-09	5.181E-09	4.534E-09
SE	1.318E-07	6.940E-08	4.577E-08	2.689E-08	1.852E-08	1.389E-08	1.100E-08	9.035E-09	7.625E-09	6.568E-09	5.749E-09
SSE	2.006E-07	1.064E-07	7.050E-08	4.170E-08	2.884E-08	2.171E-08	1.724E-08	1.419E-08	1.200E-08	1.036E-08	9.079E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.030E-06	1.899E-06	6.071E-07	3.126E-07	1.969E-07	8.937E-08	3.329E-08	1.687E-08	1.089E-08	7.880E-09
SSW	4.442E-06	1.024E-06	3.203E-07	1.630E-07	1.018E-07	4.564E-08	1.669E-08	8.356E-09	5.359E-09	3.861E-09
SW	2.824E-06	6.507E-07	2.016E-07	1.020E-07	6.344E-08	2.822E-08	1.019E-08	5.056E-09	3.225E-09	2.315E-09
WSW	2.145E-06	4.902E-07	1.462E-07	7.227E-08	4.420E-08	1.912E-08	6.589E-09	3.151E-09	1.962E-09	1.383E-09
W	1.626E-06	3.713E-07	1.141E-07	5.745E-08	3.564E-08	1.580E-08	5.694E-09	2.837E-09	1.817E-09	1.308E-09
WNW	2.676E-06	6.057E-07	1.865E-07	9.406E-08	5.840E-08	2.593E-08	9.363E-09	4.657E-09	2.978E-09	2.141E-09
NW	5.414E-06	1.233E-06	3.772E-07	1.895E-07	1.173E-07	5.186E-08	1.857E-08	9.170E-09	5.836E-09	4.181E-09
NNW	1.510E-05	3.540E-06	1.168E-06	6.126E-07	3.908E-07	1.810E-07	6.959E-08	3.612E-08	2.367E-08	1.731E-08
N	1.509E-05	3.556E-06	1.154E-06	5.996E-07	3.801E-07	1.743E-07	6.605E-08	3.391E-08	2.207E-08	1.607E-08
NNE	8.544E-06	2.019E-06	6.574E-07	3.422E-07	2.172E-07	9.985E-08	3.799E-08	1.958E-08	1.278E-08	9.319E-09
NE	5.835E-06	1.385E-06	4.564E-07	2.390E-07	1.523E-07	7.038E-08	2.695E-08	1.394E-08	9.111E-09	6.653E-09
ENE	3.318E-06	7.846E-07	2.542E-07	1.319E-07	8.349E-08	3.818E-08	1.439E-08	7.361E-09	4.779E-09	3.473E-09
E	5.065E-06	1.199E-06	3.928E-07	2.051E-07	1.304E-07	6.010E-08	2.291E-08	1.181E-08	7.704E-09	5.617E-09
ESE	5.025E-06	1.193E-06	3.861E-07	2.000E-07	1.265E-07	5.774E-08	2.168E-08	1.104E-08	7.154E-09	5.189E-09
SE	6.324E-06	1.498E-06	4.853E-07	2.516E-07	1.592E-07	7.275E-08	2.737E-08	1.397E-08	9.059E-09	6.578E-09
SSE	9.471E-06	2.232E-06	7.301E-07	3.808E-07	2.420E-07	1.114E-07	4.238E-08	2.182E-08	1.423E-08	1.037E-08

VENTS GROUND LEVEL RELEASES - JUL-DEC 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.738E-05	1.536E-05	8.227E-06	4.139E-06	1.675E-06	9.111E-07	5.789E-07	4.046E-07	3.015E-07	2.352E-07	1.898E-07
SSW	2.576E-05	8.593E-06	4.539E-06	2.254E-06	8.990E-07	4.840E-07	3.053E-07	2.121E-07	1.573E-07	1.222E-07	9.830E-08
SW	1.618E-05	5.444E-06	2.893E-06	1.439E-06	5.706E-07	3.058E-07	1.922E-07	1.332E-07	9.855E-08	7.640E-08	6.134E-08
WSW	1.164E-05	4.095E-06	2.216E-06	1.104E-06	4.272E-07	2.251E-07	1.396E-07	9.571E-08	7.018E-08	5.399E-08	4.305E-08
W	9.587E-06	3.150E-06	1.662E-06	8.252E-07	3.251E-07	1.736E-07	1.088E-07	7.526E-08	5.559E-08	4.305E-08	3.453E-08
WNW	1.551E-05	5.217E-06	2.729E-06	1.344E-06	5.302E-07	2.834E-07	1.778E-07	1.230E-07	9.088E-08	7.039E-08	5.647E-08
NW	3.093E-05	1.048E-05	5.546E-06	2.745E-06	1.079E-06	5.753E-07	3.602E-07	2.489E-07	1.837E-07	1.421E-07	1.139E-07
NNW	9.423E-05	2.952E-05	1.528E-05	7.597E-06	3.143E-06	1.735E-06	1.114E-06	7.859E-07	5.900E-07	4.631E-07	3.758E-07
N	9.237E-05	2.917E-05	1.538E-05	7.701E-06	3.150E-06	1.726E-06	1.103E-06	7.744E-07	5.793E-07	4.535E-07	3.671E-07
NNE	5.301E-05	1.651E-05	8.697E-06	4.363E-06	1.788E-06	9.808E-07	6.273E-07	4.408E-07	3.299E-07	2.584E-07	2.092E-07
NE	3.631E-05	1.129E-05	5.925E-06	2.972E-06	1.229E-06	6.775E-07	4.349E-07	3.065E-07	2.299E-07	1.803E-07	1.462E-07
ENE	2.004E-05	6.388E-06	3.385E-06	1.699E-06	6.941E-07	3.798E-07	2.424E-07	1.700E-07	1.271E-07	9.938E-08	8.039E-08
E	3.090E-05	9.786E-06	5.156E-06	2.582E-06	1.063E-06	5.846E-07	3.746E-07	2.636E-07	1.976E-07	1.548E-07	1.255E-07
ESE	3.018E-05	9.641E-06	5.135E-06	2.586E-06	1.056E-06	5.775E-07	3.685E-07	2.583E-07	1.930E-07	1.509E-07	1.220E-07
SE	3.817E-05	1.217E-05	6.454E-06	3.244E-06	1.326E-06	7.256E-07	4.631E-07	3.249E-07	2.428E-07	1.898E-07	1.536E-07
SSE	5.813E-05	1.837E-05	9.624E-06	4.810E-06	1.979E-06	1.088E-06	6.966E-07	4.900E-07	3.670E-07	2.875E-07	2.330E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.574E-07	8.102E-08	5.231E-08	2.956E-08	1.962E-08	1.421E-08	1.087E-08	8.633E-09	7.051E-09	5.883E-09	4.991E-09
SSW	8.125E-08	4.139E-08	2.654E-08	1.487E-08	9.818E-09	7.084E-09	5.405E-09	4.286E-09	3.495E-09	2.913E-09	2.469E-09
SW	5.061E-08	2.561E-08	1.635E-08	9.108E-09	5.997E-09	4.319E-09	3.291E-09	2.607E-09	2.124E-09	1.769E-09	1.499E-09
WSW	3.532E-08	1.751E-08	1.103E-08	6.042E-09	3.944E-09	2.826E-09	2.148E-09	1.699E-09	1.384E-09	1.154E-09	9.783E-10
W	2.846E-08	1.438E-08	9.170E-09	5.118E-09	3.387E-09	2.450E-09	1.874E-09	1.490E-09	1.219E-09	1.019E-09	8.663E-10
WNW	4.656E-08	2.353E-08	1.501E-08	8.361E-09	5.511E-09	3.973E-09	3.030E-09	2.402E-09	1.959E-09	1.633E-09	1.385E-09
NW	9.389E-08	4.736E-08	3.019E-08	1.682E-08	1.110E-08	8.017E-09	6.128E-09	4.871E-09	3.984E-09	3.330E-09	2.832E-09
NNW	3.129E-07	1.639E-07	1.070E-07	6.141E-08	4.116E-08	3.002E-08	2.309E-08	1.844E-08	1.512E-08	1.266E-08	1.077E-08
N	3.052E-07	1.588E-07	1.034E-07	5.910E-08	3.959E-08	2.888E-08	2.225E-08	1.778E-08	1.461E-08	1.226E-08	1.045E-08
NNE	1.740E-07	9.062E-08	5.899E-08	3.373E-08	2.259E-08	1.647E-08	1.267E-08	1.012E-08	8.302E-09	6.955E-09	5.924E-09
NE	1.217E-07	6.354E-08	4.141E-08	2.366E-08	1.581E-08	1.150E-08	8.822E-09	7.025E-09	5.747E-09	4.800E-09	4.076E-09
ENE	6.675E-08	3.458E-08	2.242E-08	1.274E-08	8.484E-09	6.158E-09	4.720E-09	3.755E-09	3.071E-09	2.565E-09	2.179E-09
E	1.044E-07	5.443E-08	3.545E-08	2.025E-08	1.354E-08	9.851E-09	7.566E-09	6.030E-09	4.939E-09	4.131E-09	3.512E-09
ESE	1.013E-07	5.240E-08	3.395E-08	1.927E-08	1.282E-08	9.303E-09	7.129E-09	5.673E-09	4.640E-09	3.877E-09	3.293E-09
SE	1.275E-07	6.602E-08	4.280E-08	2.431E-08	1.619E-08	1.175E-08	9.011E-09	7.173E-09	5.870E-09	4.905E-09	4.168E-09
SSE	1.937E-07	1.009E-07	6.567E-08	3.748E-08	2.503E-08	1.821E-08	1.398E-08	1.114E-08	9.120E-09	7.626E-09	6.483E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.995E-06	1.883E-06	5.978E-07	3.057E-07	1.912E-07	8.522E-08	3.020E-08	1.431E-08	8.669E-09	5.899E-09
SSW	4.425E-06	1.016E-06	3.157E-07	1.596E-07	9.907E-08	4.365E-08	1.522E-08	7.141E-09	4.304E-09	2.921E-09
SW	2.814E-06	6.460E-07	1.989E-07	1.000E-07	6.183E-08	2.705E-08	9.335E-09	4.355E-09	2.618E-09	1.774E-09
WSW	2.139E-06	4.877E-07	1.448E-07	7.130E-08	4.343E-08	1.859E-08	6.217E-09	2.853E-09	1.707E-09	1.157E-09
W	1.621E-06	3.689E-07	1.127E-07	5.643E-08	3.481E-08	1.519E-08	5.249E-09	2.469E-09	1.497E-09	1.022E-09
WNW	2.666E-06	6.014E-07	1.840E-07	9.224E-08	5.692E-08	2.486E-08	8.572E-09	4.006E-09	2.412E-09	1.637E-09
NW	5.398E-06	1.225E-06	3.730E-07	1.865E-07	1.149E-07	5.007E-08	1.725E-08	8.084E-09	4.892E-09	3.339E-09
NNW	1.503E-05	3.507E-06	1.148E-06	5.976E-07	3.784E-07	1.717E-07	6.255E-08	3.022E-08	1.850E-08	1.269E-08
N	1.503E-05	3.528E-06	1.137E-06	5.871E-07	3.697E-07	1.667E-07	6.026E-08	2.908E-08	1.785E-08	1.229E-08
NNE	8.506E-06	2.001E-06	6.470E-07	3.343E-07	2.107E-07	9.508E-08	3.439E-08	1.658E-08	1.016E-08	6.972E-09
NE	5.806E-06	1.371E-06	4.482E-07	2.329E-07	1.472E-07	6.663E-08	2.412E-08	1.158E-08	7.052E-09	4.813E-09
ENE	3.303E-06	7.777E-07	2.501E-07	1.288E-07	8.096E-08	3.633E-08	1.300E-08	6.203E-09	3.770E-09	2.572E-09
E	5.041E-06	1.188E-06	3.862E-07	2.002E-07	1.264E-07	5.709E-08	2.064E-08	9.920E-09	6.053E-09	4.141E-09
ESE	5.004E-06	1.183E-06	3.802E-07	1.956E-07	1.229E-07	5.506E-08	1.966E-08	9.372E-09	5.695E-09	3.887E-09
SE	6.297E-06	1.485E-06	4.778E-07	2.461E-07	1.547E-07	6.936E-08	2.481E-08	1.184E-08	7.202E-09	4.918E-09
SSE	9.429E-06	2.212E-06	7.182E-07	3.719E-07	2.346E-07	1.059E-07	3.821E-08	1.834E-08	1.118E-08	7.645E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 2005

8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.489E-05	1.406E-05	7.355E-06	3.639E-06	1.432E-06	7.613E-07	4.743E-07	3.259E-07	2.391E-07	1.839E-07	1.466E-07
SSW	2.440E-05	7.863E-06	4.057E-06	1.981E-06	7.682E-07	4.042E-07	2.499E-07	1.707E-07	1.246E-07	9.547E-08	7.580E-08
SW	1.533E-05	4.981E-06	2.585E-06	1.265E-06	4.874E-07	2.552E-07	1.573E-07	1.071E-07	7.800E-08	5.962E-08	4.725E-08
WSW	1.102E-05	3.745E-06	1.978E-06	9.690E-07	3.643E-07	1.874E-07	1.139E-07	7.666E-08	5.530E-08	4.191E-08	3.297E-08
W	9.081E-06	2.881E-06	1.485E-06	7.248E-07	2.776E-07	1.448E-07	8.895E-08	6.044E-08	4.394E-08	3.354E-08	2.655E-08
WNW	1.470E-05	4.773E-06	2.439E-06	1.181E-06	4.529E-07	2.365E-07	1.454E-07	9.886E-08	7.192E-08	5.492E-08	4.349E-08
NW	2.930E-05	9.586E-06	4.953E-06	2.410E-06	9.208E-07	4.795E-07	2.942E-07	1.997E-07	1.450E-07	1.106E-07	8.748E-08
NNW	8.930E-05	2.702E-05	1.367E-05	6.682E-06	2.689E-06	1.451E-06	9.142E-07	6.339E-07	4.687E-07	3.628E-07	2.908E-07
N	8.751E-05	2.669E-05	1.375E-05	6.769E-06	2.692E-06	1.441E-06	9.029E-07	6.231E-07	4.590E-07	3.542E-07	2.831E-07
NNE	5.022E-05	1.511E-05	7.776E-06	3.836E-06	1.529E-06	8.198E-07	5.142E-07	3.552E-07	2.618E-07	2.022E-07	1.617E-07
NE	3.441E-05	1.034E-05	5.301E-06	2.615E-06	1.052E-06	5.670E-07	3.570E-07	2.474E-07	1.828E-07	1.414E-07	1.133E-07
ENE	1.899E-05	5.847E-06	3.027E-06	1.494E-06	5.937E-07	3.175E-07	1.987E-07	1.370E-07	1.009E-07	7.779E-08	6.213E-08
E	2.928E-05	8.958E-06	4.611E-06	2.271E-06	9.094E-07	4.889E-07	3.073E-07	2.126E-07	1.569E-07	1.213E-07	9.705E-08
ESE	2.859E-05	8.824E-06	4.591E-06	2.273E-06	9.029E-07	4.825E-07	3.019E-07	2.080E-07	1.530E-07	1.180E-07	9.419E-08
SE	3.617E-05	1.114E-05	5.770E-06	2.852E-06	1.134E-06	6.063E-07	3.795E-07	2.616E-07	1.925E-07	1.485E-07	1.186E-07
SSE	5.508E-05	1.682E-05	8.606E-06	4.230E-06	1.692E-06	9.092E-07	5.711E-07	3.949E-07	2.913E-07	2.251E-07	1.801E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.201E-07	5.918E-08	3.686E-08	1.974E-08	1.259E-08	8.835E-09	6.585E-09	5.116E-09	4.099E-09	3.361E-09	2.808E-09
SSW	6.191E-08	3.017E-08	1.865E-08	9.892E-09	6.273E-09	4.383E-09	3.256E-09	2.524E-09	2.018E-09	1.652E-09	1.378E-09
SW	3.851E-08	1.864E-08	1.146E-08	6.039E-09	3.815E-09	2.658E-09	1.970E-09	1.524E-09	1.216E-09	9.944E-10	8.284E-10
WSW	2.670E-08	1.261E-08	7.622E-09	3.922E-09	2.439E-09	1.680E-09	1.234E-09	9.474E-10	7.516E-10	6.114E-10	5.072E-10
W	2.162E-08	1.043E-08	6.408E-09	3.378E-09	2.141E-09	1.496E-09	1.112E-09	8.619E-10	6.893E-10	5.646E-10	4.712E-10
WNW	3.543E-08	1.712E-08	1.052E-08	5.546E-09	3.508E-09	2.447E-09	1.815E-09	1.405E-09	1.123E-09	9.184E-10	7.656E-10
NW	7.120E-08	3.428E-08	2.101E-08	1.104E-08	6.966E-09	4.852E-09	3.596E-09	2.783E-09	2.222E-09	1.817E-09	1.515E-09
NNW	2.394E-07	1.201E-07	7.575E-08	4.126E-08	2.663E-08	1.885E-08	1.414E-08	1.105E-08	8.897E-09	7.326E-09	6.142E-09
N	2.325E-07	1.158E-07	7.261E-08	3.929E-08	2.525E-08	1.782E-08	1.335E-08	1.041E-08	8.375E-09	6.891E-09	5.774E-09
NNE	1.328E-07	6.625E-08	4.161E-08	2.255E-08	1.451E-08	1.025E-08	7.684E-09	5.999E-09	4.825E-09	3.971E-09	3.327E-09
NE	9.320E-08	4.666E-08	2.937E-08	1.595E-08	1.027E-08	7.258E-09	5.438E-09	4.244E-09	3.412E-09	2.806E-09	2.350E-09
ENE	5.100E-08	2.530E-08	1.583E-08	8.532E-09	5.466E-09	3.848E-09	2.875E-09	2.239E-09	1.797E-09	1.475E-09	1.234E-09
E	7.980E-08	3.986E-08	2.506E-08	1.359E-08	8.738E-09	6.169E-09	4.620E-09	3.604E-09	2.897E-09	2.382E-09	1.995E-09
ESE	7.727E-08	3.827E-08	2.391E-08	1.286E-08	8.226E-09	5.784E-09	4.318E-09	3.359E-09	2.694E-09	2.212E-09	1.849E-09
SE	9.729E-08	4.823E-08	3.016E-08	1.624E-08	1.039E-08	7.312E-09	5.462E-09	4.252E-09	3.411E-09	2.801E-09	2.343E-09
SSE	1.481E-07	7.387E-08	4.640E-08	2.513E-08	1.615E-08	1.140E-08	8.532E-09	6.654E-09	5.347E-09	4.397E-09	3.681E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.193E-06	1.624E-06	4.915E-07	2.429E-07	1.478E-07	6.279E-08	2.037E-08	8.936E-09	5.148E-09	3.375E-09
SSW	3.980E-06	8.759E-07	2.594E-07	1.267E-07	7.648E-08	3.210E-08	1.023E-08	4.436E-09	2.540E-09	1.659E-09
SW	2.531E-06	5.569E-07	1.633E-07	7.931E-08	4.768E-08	1.986E-08	6.256E-09	2.691E-09	1.534E-09	9.987E-10
WSW	1.922E-06	4.200E-07	1.186E-07	5.630E-08	3.330E-08	1.352E-08	4.085E-09	1.704E-09	9.546E-10	6.143E-10
W	1.457E-06	3.179E-07	9.243E-08	4.469E-08	2.680E-08	1.113E-08	3.501E-09	1.514E-09	8.675E-10	5.670E-10
WNW	2.398E-06	5.185E-07	1.511E-07	7.314E-08	4.389E-08	1.826E-08	5.747E-09	2.477E-09	1.415E-09	9.223E-10
NW	4.852E-06	1.056E-06	3.058E-07	1.475E-07	8.830E-08	3.659E-08	1.144E-08	4.913E-09	2.801E-09	1.825E-09
NNW	1.353E-05	3.026E-06	9.451E-07	4.755E-07	2.931E-07	1.269E-07	4.242E-08	1.904E-08	1.111E-08	7.353E-09
N	1.352E-05	3.042E-06	9.345E-07	4.660E-07	2.855E-07	1.225E-07	4.045E-08	1.801E-08	1.048E-08	6.917E-09
NNE	7.655E-06	1.727E-06	5.321E-07	2.658E-07	1.630E-07	7.010E-08	2.321E-08	1.036E-08	6.033E-09	3.985E-09
NE	5.227E-06	1.184E-06	3.692E-07	1.855E-07	1.142E-07	4.932E-08	1.641E-08	7.334E-09	4.268E-09	2.817E-09
ENE	2.972E-06	6.710E-07	2.057E-07	1.024E-07	6.265E-08	2.680E-08	8.791E-09	3.890E-09	2.252E-09	1.481E-09
E	4.537E-06	1.025E-06	3.178E-07	1.592E-07	9.784E-08	4.216E-08	1.398E-08	6.234E-09	3.625E-09	2.391E-09
ESE	4.501E-06	1.021E-06	3.125E-07	1.554E-07	9.497E-08	4.056E-08	1.326E-08	5.848E-09	3.380E-09	2.220E-09
SE	5.666E-06	1.281E-06	3.928E-07	1.955E-07	1.195E-07	5.110E-08	1.673E-08	7.394E-09	4.277E-09	2.812E-09
SSE	8.486E-06	1.908E-06	5.908E-07	2.957E-07	1.816E-07	7.815E-08	2.587E-08	1.152E-08	6.693E-09	4.413E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.544E-07	5.220E-08	2.680E-08	1.274E-08	4.577E-09	2.270E-09	1.336E-09	8.751E-10	6.158E-10	4.564E-10	3.517E-10
SSW	9.448E-08	3.195E-08	1.640E-08	7.798E-09	2.801E-09	1.389E-09	8.180E-10	5.356E-10	3.769E-10	2.793E-10	2.152E-10
SW	6.436E-08	2.176E-08	1.117E-08	5.312E-09	1.908E-09	9.463E-10	5.572E-10	3.649E-10	2.567E-10	1.903E-10	1.466E-10
WSW	6.310E-08	2.134E-08	1.096E-08	5.209E-09	1.871E-09	9.278E-10	5.463E-10	3.577E-10	2.517E-10	1.865E-10	1.438E-10
W	5.037E-08	1.703E-08	8.745E-09	4.158E-09	1.493E-09	7.406E-10	4.361E-10	2.855E-10	2.009E-10	1.489E-10	1.147E-10
WNW	7.236E-08	2.447E-08	1.256E-08	5.973E-09	2.146E-09	1.064E-09	6.265E-10	4.102E-10	2.887E-10	2.139E-10	1.649E-10
NW	1.858E-07	6.282E-08	3.225E-08	1.533E-08	5.508E-09	2.731E-09	1.608E-09	1.053E-09	7.410E-10	5.492E-10	4.232E-10
NNW	2.831E-07	9.572E-08	4.915E-08	2.336E-08	8.393E-09	4.162E-09	2.451E-09	1.605E-09	1.129E-09	8.368E-10	6.449E-10
N	4.315E-07	1.459E-07	7.492E-08	3.562E-08	1.279E-08	6.345E-09	3.736E-09	2.446E-09	1.721E-09	1.276E-09	9.831E-10
NNE	1.840E-07	6.222E-08	3.195E-08	1.519E-08	5.455E-09	2.705E-09	1.593E-09	1.043E-09	7.340E-10	5.439E-10	4.192E-10
NE	8.814E-08	2.980E-08	1.530E-08	7.275E-09	2.613E-09	1.296E-09	7.631E-10	4.997E-10	3.516E-10	2.606E-10	2.008E-10
ENE	6.354E-08	2.148E-08	1.103E-08	5.244E-09	1.884E-09	9.342E-10	5.501E-10	3.602E-10	2.535E-10	1.878E-10	1.447E-10
E	9.377E-08	3.171E-08	1.628E-08	7.740E-09	2.780E-09	1.379E-09	8.119E-10	5.316E-10	3.741E-10	2.772E-10	2.136E-10
ESE	1.300E-07	4.397E-08	2.258E-08	1.073E-08	3.855E-09	1.912E-09	1.126E-09	7.371E-10	5.187E-10	3.844E-10	2.962E-10
SE	1.580E-07	5.343E-08	2.743E-08	1.304E-08	4.685E-09	2.323E-09	1.368E-09	8.958E-10	6.303E-10	4.671E-10	3.600E-10
SSE	1.992E-07	6.736E-08	3.459E-08	1.644E-08	5.907E-09	2.929E-09	1.725E-09	1.129E-09	7.947E-10	5.889E-10	4.538E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.794E-10	1.241E-10	7.518E-11	3.800E-11	2.300E-11	1.542E-11	1.105E-11	8.297E-12	6.451E-12	5.153E-12	4.206E-12
SSW	1.710E-10	7.596E-11	4.601E-11	2.326E-11	1.408E-11	9.438E-12	6.763E-12	5.078E-12	3.948E-12	3.154E-12	2.574E-12
SW	1.165E-10	5.174E-11	3.134E-11	1.584E-11	9.589E-12	6.429E-12	4.607E-12	3.459E-12	2.690E-12	2.149E-12	1.754E-12
WSW	1.142E-10	5.073E-11	3.073E-11	1.553E-11	9.402E-12	6.304E-12	4.517E-12	3.392E-12	2.637E-12	2.107E-12	1.719E-12
W	9.116E-11	4.050E-11	2.453E-11	1.240E-11	7.505E-12	5.032E-12	3.605E-12	2.707E-12	2.105E-12	1.682E-12	1.372E-12
WNW	1.310E-10	5.818E-11	3.524E-11	1.781E-11	1.078E-11	7.229E-12	5.180E-12	3.889E-12	3.024E-12	2.416E-12	1.972E-12
NW	3.362E-10	1.494E-10	9.047E-11	4.573E-11	2.768E-11	1.856E-11	1.330E-11	9.985E-12	7.763E-12	6.201E-12	5.062E-12
NNW	5.123E-10	2.276E-10	1.379E-10	6.968E-11	4.217E-11	2.828E-11	2.026E-11	1.521E-11	1.183E-11	9.450E-12	7.713E-12
N	7.810E-10	3.470E-10	2.102E-10	1.062E-10	6.429E-11	4.311E-11	3.089E-11	2.319E-11	1.803E-11	1.441E-11	1.176E-11
NNE	3.330E-10	1.479E-10	8.961E-11	4.529E-11	2.741E-11	1.838E-11	1.317E-11	9.890E-12	7.689E-12	6.142E-12	5.014E-12
NE	1.595E-10	7.086E-11	4.293E-11	2.170E-11	1.313E-11	8.805E-12	6.309E-12	4.737E-12	3.683E-12	2.942E-12	2.402E-12
ENE	1.150E-10	5.108E-11	3.094E-11	1.564E-11	9.467E-12	6.347E-12	4.548E-12	3.415E-12	2.655E-12	2.121E-12	1.731E-12
E	1.697E-10	7.539E-11	4.567E-11	2.308E-11	1.397E-11	9.368E-12	6.712E-12	5.040E-12	3.919E-12	3.130E-12	2.555E-12
ESE	2.353E-10	1.045E-10	6.333E-11	3.201E-11	1.937E-11	1.299E-11	9.307E-12	6.989E-12	5.434E-12	4.341E-12	3.543E-12
SE	2.860E-10	1.270E-10	7.695E-11	3.890E-11	2.354E-11	1.578E-11	1.131E-11	8.493E-12	6.603E-12	5.275E-12	4.305E-12
SSE	3.606E-10	1.602E-10	9.702E-11	4.904E-11	2.968E-11	1.990E-11	1.426E-11	1.071E-11	8.326E-12	6.651E-12	5.428E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.620E-08	5.366E-09	1.401E-09	6.291E-10	3.559E-10	1.369E-10	3.960E-11	1.569E-11	8.380E-12	5.187E-12
SSW	1.603E-08	3.284E-09	8.573E-10	3.851E-10	2.178E-10	8.377E-11	2.423E-11	9.605E-12	5.129E-12	3.175E-12
SW	1.092E-08	2.237E-09	5.840E-10	2.623E-10	1.484E-10	5.706E-11	1.651E-11	6.543E-12	3.494E-12	2.163E-12
WSW	1.071E-08	2.193E-09	5.726E-10	2.572E-10	1.455E-10	5.595E-11	1.619E-11	6.415E-12	3.426E-12	2.120E-12
W	8.548E-09	1.751E-09	4.571E-10	2.053E-10	1.161E-10	4.466E-11	1.292E-11	5.121E-12	2.735E-12	1.693E-12
WNW	1.228E-08	2.515E-09	6.567E-10	2.949E-10	1.668E-10	6.416E-11	1.856E-11	7.357E-12	3.928E-12	2.432E-12
NW	3.153E-08	6.457E-09	1.686E-09	7.571E-10	4.283E-10	1.647E-10	4.765E-11	1.889E-11	1.008E-11	6.242E-12
NNW	4.804E-08	9.839E-09	2.569E-09	1.154E-09	6.526E-10	2.510E-10	7.261E-11	2.878E-11	1.537E-11	9.512E-12
N	7.323E-08	1.500E-08	3.916E-09	1.759E-09	9.949E-10	3.826E-10	1.107E-10	4.387E-11	2.343E-11	1.450E-11
NNE	3.122E-08	6.396E-09	1.670E-09	7.499E-10	4.242E-10	1.631E-10	4.720E-11	1.871E-11	9.989E-12	6.183E-12
NE	1.496E-08	3.064E-09	7.998E-10	3.592E-10	2.032E-10	7.815E-11	2.261E-11	8.960E-12	4.785E-12	2.962E-12
ENE	1.078E-08	2.209E-09	5.766E-10	2.590E-10	1.465E-10	5.633E-11	1.630E-11	6.459E-12	3.449E-12	2.135E-12
E	1.591E-08	3.260E-09	8.509E-10	3.822E-10	2.162E-10	8.314E-11	2.405E-11	9.533E-12	5.091E-12	3.151E-12
ESE	2.207E-08	4.520E-09	1.180E-09	5.299E-10	2.998E-10	1.153E-10	3.335E-11	1.322E-11	7.059E-12	4.369E-12
SE	2.681E-08	5.492E-09	1.434E-09	6.440E-10	3.643E-10	1.401E-10	4.053E-11	1.606E-11	8.578E-12	5.309E-12
SSE	3.381E-08	6.925E-09	1.808E-09	8.119E-10	4.593E-10	1.766E-10	5.110E-11	2.025E-11	1.082E-11	6.694E-12

VENTS GROUND LEVEL RELEASES - JUL-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	7.1E-06	7.1E-06	6.3E-06	2.3E-08
A	Site Boundary	SSW	.82	3.6E-06	3.6E-06	3.2E-06	1.3E-08
A	Site Boundary	SW	.97	1.5E-06	1.5E-06	1.3E-06	5.7E-09
A	Site Boundary	WSW	.93	1.3E-06	1.3E-06	1.2E-06	6.4E-09
A	Site Boundary	W	.91	1.0E-06	1.0E-06	9.1E-07	5.3E-09
A	Site Boundary	WNW	.94	1.6E-06	1.6E-06	1.4E-06	7.1E-09
A	Site Boundary	NW	.81	4.6E-06	4.6E-06	4.1E-06	2.6E-08
A	Site Boundary	NNW	.69	1.8E-05	1.8E-05	1.6E-05	5.7E-08
A	Site Boundary	N	.67	1.8E-05	1.8E-05	1.6E-05	9.0E-08
A	Site Boundary	NNE	.60	1.2E-05	1.2E-05	1.1E-05	4.6E-08
A	Site Boundary	NE	.62	7.9E-06	7.9E-06	7.1E-06	2.1E-08
A	Site Boundary	ENE	.59	5.0E-06	4.9E-06	4.5E-06	1.7E-08
A	Site Boundary	E	.53	9.1E-06	9.0E-06	8.2E-06	2.9E-08
A	Site Boundary	ESE	.54	8.6E-06	8.6E-06	7.8E-06	3.9E-08
A	Site Boundary	SE	.65	8.1E-06	8.0E-06	7.2E-06	3.5E-08
A	Site Boundary	SSE	.81	8.0E-06	8.0E-06	7.1E-06	2.8E-08
A	Nearest Res	SW	1.30	7.9E-07	7.9E-07	6.8E-07	2.7E-09
A	Nearest Res	WSW	1.30	6.0E-07	5.9E-07	5.1E-07	2.7E-09
A	Nearest Res	W	1.00	8.3E-07	8.3E-07	7.3E-07	4.2E-09
A	Nearest Res	WNW	1.70	4.1E-07	4.0E-07	3.4E-07	1.6E-09
A	Nearest Res	NW	.90	3.6E-06	3.6E-06	3.1E-06	2.0E-08
A	Nearest Res	NNW	1.90	1.9E-06	1.9E-06	1.6E-06	4.7E-09
A	Nearest Res	N	3.00	7.9E-07	7.7E-07	6.2E-07	2.4E-09
A	Nearest Res	ENE	1.70	5.4E-07	5.3E-07	4.5E-07	1.4E-09
A	Nearest Res	E	1.90	6.6E-07	6.5E-07	5.5E-07	1.6E-09
A	Nearest Res	ESE	2.30	4.4E-07	4.4E-07	3.6E-07	1.4E-09
A	Nearest Res	SE	3.20	2.9E-07	2.9E-07	2.3E-07	7.7E-10
A	Nearest Cow	NNW	3.50	6.1E-07	5.9E-07	4.7E-07	1.1E-09
A	Nearest Garde	SW	2.20	2.5E-07	2.5E-07	2.1E-07	7.5E-10
A	Nearest Garde	WSW	1.90	2.5E-07	2.5E-07	2.1E-07	1.0E-09
A	Nearest Garde	WNW	2.40	2.0E-07	1.9E-07	1.6E-07	6.9E-10
A	Nearest Garde	ESE	3.00	2.6E-07	2.6E-07	2.1E-07	7.4E-10
A	Nearest Garde	SE	3.50	2.5E-07	2.4E-07	1.9E-07	6.3E-10

Atmospheric Diffusion Estimates

Ground Level Releases

January-December 2005

VENTS GROUND LEVEL RELEASES - JAN-DEC 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.761E-05	1.572E-05	8.450E-06	4.252E-06	1.713E-06	9.292E-07	5.897E-07	4.121E-07	3.072E-07	2.398E-07	1.938E-07
SSW	2.540E-05	8.612E-06	4.577E-06	2.277E-06	9.029E-07	4.845E-07	3.050E-07	2.117E-07	1.569E-07	1.219E-07	9.812E-08
SW	1.469E-05	5.030E-06	2.681E-06	1.333E-06	5.267E-07	2.820E-07	1.772E-07	1.228E-07	9.092E-08	7.057E-08	5.673E-08
WSW	1.355E-05	4.581E-06	2.413E-06	1.194E-06	4.738E-07	2.544E-07	1.602E-07	1.113E-07	8.251E-08	6.413E-08	5.163E-08
W	9.725E-06	3.304E-06	1.751E-06	8.685E-07	3.409E-07	1.816E-07	1.137E-07	7.858E-08	5.803E-08	4.494E-08	3.606E-08
WNW	1.422E-05	4.930E-06	2.605E-06	1.284E-06	4.980E-07	2.632E-07	1.637E-07	1.125E-07	8.276E-08	6.385E-08	5.106E-08
NW	3.426E-05	1.161E-05	6.128E-06	3.033E-06	1.200E-06	6.436E-07	4.049E-07	2.810E-07	2.083E-07	1.618E-07	1.302E-07
NNW	7.366E-05	2.320E-05	1.207E-05	6.016E-06	2.488E-06	1.374E-06	8.845E-07	6.251E-07	4.703E-07	3.701E-07	3.012E-07
N	8.697E-05	2.754E-05	1.453E-05	7.287E-06	2.990E-06	1.643E-06	1.053E-06	7.418E-07	5.567E-07	4.371E-07	3.549E-07
NNE	4.882E-05	1.548E-05	8.186E-06	4.107E-06	1.680E-06	9.215E-07	5.898E-07	4.150E-07	3.111E-07	2.441E-07	1.981E-07
NE	2.973E-05	9.333E-06	4.904E-06	2.460E-06	1.018E-06	5.625E-07	3.620E-07	2.558E-07	1.924E-07	1.514E-07	1.232E-07
ENE	1.586E-05	5.101E-06	2.702E-06	1.355E-06	5.525E-07	3.023E-07	1.931E-07	1.356E-07	1.016E-07	7.958E-08	6.451E-08
E	2.288E-05	7.443E-06	3.990E-06	2.010E-06	8.189E-07	4.477E-07	2.858E-07	2.007E-07	1.502E-07	1.176E-07	9.534E-08
ESE	2.350E-05	7.652E-06	4.111E-06	2.073E-06	8.394E-07	4.569E-07	2.908E-07	2.036E-07	1.520E-07	1.189E-07	9.616E-08
SE	3.589E-05	1.146E-05	6.083E-06	3.059E-06	1.252E-06	6.861E-07	4.389E-07	3.087E-07	2.313E-07	1.814E-07	1.472E-07
SSE	4.937E-05	1.584E-05	8.355E-06	4.183E-06	1.710E-06	9.370E-07	5.994E-07	4.214E-07	3.158E-07	2.476E-07	2.009E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.608E-07	8.354E-08	5.455E-08	3.163E-08	2.159E-08	1.608E-08	1.266E-08	1.035E-08	8.700E-09	7.467E-09	6.516E-09
SSW	8.115E-08	4.159E-08	2.692E-08	1.542E-08	1.044E-08	7.738E-09	6.065E-09	4.941E-09	4.140E-09	3.544E-09	3.085E-09
SW	4.688E-08	2.395E-08	1.546E-08	8.832E-09	5.970E-09	4.416E-09	3.456E-09	2.813E-09	2.354E-09	2.014E-09	1.752E-09
WSW	4.272E-08	2.194E-08	1.422E-08	8.169E-09	5.545E-09	4.115E-09	3.230E-09	2.635E-09	2.210E-09	1.894E-09	1.651E-09
W	2.974E-08	1.509E-08	9.701E-09	5.512E-09	3.719E-09	2.747E-09	2.148E-09	1.747E-09	1.461E-09	1.249E-09	1.086E-09
WNW	4.200E-08	2.111E-08	1.347E-08	7.580E-09	5.080E-09	3.734E-09	2.908E-09	2.356E-09	1.965E-09	1.676E-09	1.454E-09
NW	1.077E-07	5.522E-08	3.575E-08	2.052E-08	1.392E-08	1.033E-08	8.107E-09	6.612E-09	5.546E-09	4.752E-09	4.141E-09
NNW	2.516E-07	1.338E-07	8.885E-08	5.272E-08	3.656E-08	2.757E-08	2.192E-08	1.808E-08	1.530E-08	1.322E-08	1.160E-08
N	2.959E-07	1.564E-07	1.034E-07	6.097E-08	4.210E-08	3.165E-08	2.510E-08	2.065E-08	1.745E-08	1.504E-08	1.318E-08
NNE	1.651E-07	8.709E-08	5.749E-08	3.386E-08	2.336E-08	1.755E-08	1.391E-08	1.144E-08	9.665E-09	8.332E-09	7.299E-09
NE	1.028E-07	5.463E-08	3.624E-08	2.147E-08	1.487E-08	1.120E-08	8.899E-09	7.331E-09	6.202E-09	5.354E-09	4.696E-09
ENE	5.370E-08	2.820E-08	1.856E-08	1.088E-08	7.485E-09	5.611E-09	4.439E-09	3.645E-09	3.074E-09	2.647E-09	2.317E-09
E	7.934E-08	4.161E-08	2.735E-08	1.601E-08	1.099E-08	8.223E-09	6.497E-09	5.328E-09	4.490E-09	3.863E-09	3.377E-09
ESE	7.990E-08	4.167E-08	2.729E-08	1.589E-08	1.087E-08	8.119E-09	6.403E-09	5.243E-09	4.413E-09	3.792E-09	3.312E-09
SE	1.226E-07	6.450E-08	4.251E-08	2.497E-08	1.719E-08	1.289E-08	1.021E-08	8.385E-09	7.076E-09	6.095E-09	5.335E-09
SSE	1.673E-07	8.808E-08	5.806E-08	3.411E-08	2.349E-08	1.762E-08	1.395E-08	1.147E-08	9.677E-09	8.337E-09	7.298E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.200E-06	1.929E-06	6.092E-07	3.115E-07	1.952E-07	8.783E-08	3.226E-08	1.618E-08	1.038E-08	7.480E-09
SSW	4.452E-06	1.022E-06	3.156E-07	1.593E-07	9.889E-08	4.386E-08	1.576E-08	7.791E-09	4.957E-09	3.551E-09
SW	2.604E-06	5.971E-07	1.834E-07	9.228E-08	5.718E-08	2.527E-08	9.033E-09	4.446E-09	2.822E-09	2.018E-09
WSW	2.353E-06	5.364E-07	1.657E-07	8.372E-08	5.203E-08	2.313E-08	8.347E-09	4.142E-09	2.643E-09	1.898E-09
W	1.704E-06	3.874E-07	1.178E-07	5.892E-08	3.635E-08	1.595E-08	5.646E-09	2.767E-09	1.753E-09	1.252E-09
WNW	2.535E-06	5.682E-07	1.698E-07	8.406E-08	5.149E-08	2.236E-08	7.778E-09	3.762E-09	2.365E-09	1.679E-09
NW	5.971E-06	1.360E-06	4.190E-07	2.113E-07	1.312E-07	5.822E-08	2.097E-08	1.040E-08	6.633E-09	4.761E-09
NNW	1.185E-05	2.777E-06	9.114E-07	4.764E-07	3.032E-07	1.400E-07	5.357E-08	2.771E-08	1.812E-08	1.324E-08
N	1.420E-05	3.346E-06	1.086E-06	5.640E-07	3.574E-07	1.638E-07	6.201E-08	3.181E-08	2.070E-08	1.507E-08
NNE	7.995E-06	1.882E-06	6.083E-07	3.153E-07	1.995E-07	9.127E-08	3.444E-08	1.765E-08	1.147E-08	8.345E-09
NE	4.802E-06	1.136E-06	3.730E-07	1.949E-07	1.240E-07	5.717E-08	2.182E-08	1.126E-08	7.349E-09	5.362E-09
ENE	2.636E-06	6.196E-07	1.992E-07	1.029E-07	6.497E-08	2.959E-08	1.108E-08	5.642E-09	3.654E-09	2.651E-09
E	3.877E-06	9.186E-07	2.949E-07	1.522E-07	9.603E-08	4.366E-08	1.630E-08	8.270E-09	5.343E-09	3.869E-09
ESE	3.992E-06	9.436E-07	3.002E-07	1.541E-07	9.686E-08	4.377E-08	1.619E-08	8.167E-09	5.258E-09	3.798E-09
SE	5.933E-06	1.402E-06	4.527E-07	2.344E-07	1.482E-07	6.763E-08	2.541E-08	1.297E-08	8.407E-09	6.104E-09
SSE	8.164E-06	1.916E-06	6.182E-07	3.200E-07	2.023E-07	9.235E-08	3.471E-08	1.772E-08	1.150E-08	8.349E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.754E-05	1.568E-05	8.417E-06	4.229E-06	1.699E-06	9.189E-07	5.815E-07	4.052E-07	3.011E-07	2.344E-07	1.888E-07
SSW	2.537E-05	8.591E-06	4.561E-06	2.266E-06	8.961E-07	4.796E-07	3.011E-07	2.084E-07	1.541E-07	1.194E-07	9.579E-08
SW	1.467E-05	5.018E-06	2.671E-06	1.327E-06	5.229E-07	2.792E-07	1.750E-07	1.210E-07	8.931E-08	6.913E-08	5.542E-08
WSW	1.353E-05	4.570E-06	2.404E-06	1.189E-06	4.704E-07	2.519E-07	1.582E-07	1.096E-07	8.107E-08	6.284E-08	5.045E-08
W	9.715E-06	3.297E-06	1.746E-06	8.649E-07	3.387E-07	1.800E-07	1.124E-07	7.751E-08	5.711E-08	4.411E-08	3.531E-08
WNW	1.421E-05	4.921E-06	2.597E-06	1.279E-06	4.950E-07	2.610E-07	1.620E-07	1.111E-07	8.153E-08	6.275E-08	5.007E-08
NW	3.422E-05	1.159E-05	6.109E-06	3.020E-06	1.193E-06	6.379E-07	4.004E-07	2.772E-07	2.050E-07	1.588E-07	1.275E-07
NNW	7.354E-05	2.313E-05	1.202E-05	5.980E-06	2.465E-06	1.357E-06	8.708E-07	6.133E-07	4.600E-07	3.608E-07	2.926E-07
N	8.684E-05	2.746E-05	1.447E-05	7.248E-06	2.965E-06	1.625E-06	1.038E-06	7.292E-07	5.456E-07	4.271E-07	3.458E-07
NNE	4.875E-05	1.544E-05	8.152E-06	4.084E-06	1.666E-06	9.111E-07	5.815E-07	4.079E-07	3.049E-07	2.385E-07	1.930E-07
NE	2.968E-05	9.303E-06	4.880E-06	2.444E-06	1.008E-06	5.550E-07	3.559E-07	2.506E-07	1.879E-07	1.473E-07	1.194E-07
ENE	1.584E-05	5.086E-06	2.690E-06	1.347E-06	5.476E-07	2.986E-07	1.902E-07	1.331E-07	9.936E-08	7.761E-08	6.271E-08
E	2.285E-05	7.422E-06	3.973E-06	1.999E-06	8.119E-07	4.426E-07	2.817E-07	1.972E-07	1.471E-07	1.149E-07	9.282E-08
ESE	2.347E-05	7.633E-06	4.096E-06	2.063E-06	8.330E-07	4.522E-07	2.869E-07	2.004E-07	1.492E-07	1.163E-07	9.383E-08
SE	3.584E-05	1.143E-05	6.058E-06	3.043E-06	1.241E-06	6.782E-07	4.326E-07	3.033E-07	2.266E-07	1.771E-07	1.432E-07
SSE	4.930E-05	1.579E-05	8.320E-06	4.160E-06	1.695E-06	9.263E-07	5.907E-07	4.140E-07	3.093E-07	2.418E-07	1.955E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.562E-07	7.995E-08	5.144E-08	2.895E-08	1.918E-08	1.388E-08	1.062E-08	8.438E-09	6.896E-09	5.758E-09	4.889E-09
SSW	7.900E-08	3.993E-08	2.547E-08	1.418E-08	9.340E-09	6.729E-09	5.130E-09	4.066E-09	3.316E-09	2.764E-09	2.344E-09
SW	4.567E-08	2.302E-08	1.466E-08	8.145E-09	5.357E-09	3.857E-09	2.939E-09	2.329E-09	1.899E-09	1.583E-09	1.342E-09
WSW	4.163E-08	2.109E-08	1.348E-08	7.532E-09	4.974E-09	3.592E-09	2.745E-09	2.180E-09	1.781E-09	1.488E-09	1.263E-09
W	2.905E-08	1.456E-08	9.237E-09	5.115E-09	3.364E-09	2.423E-09	1.848E-09	1.466E-09	1.197E-09	9.987E-10	8.479E-10
WNW	4.110E-08	2.041E-08	1.287E-08	7.075E-09	4.632E-09	3.326E-09	2.531E-09	2.004E-09	1.634E-09	1.362E-09	1.156E-09
NW	1.052E-07	5.326E-08	3.405E-08	1.905E-08	1.261E-08	9.123E-09	6.986E-09	5.561E-09	4.554E-09	3.811E-09	3.244E-09
NNW	2.436E-07	1.275E-07	8.326E-08	4.782E-08	3.211E-08	2.347E-08	1.810E-08	1.448E-08	1.190E-08	9.982E-09	8.512E-09
N	2.874E-07	1.497E-07	9.745E-08	5.579E-08	3.742E-08	2.734E-08	2.108E-08	1.687E-08	1.388E-08	1.165E-08	9.945E-09
NNE	1.603E-07	8.333E-08	5.420E-08	3.098E-08	2.077E-08	1.516E-08	1.169E-08	9.351E-09	7.688E-09	6.454E-09	5.508E-09
NE	9.937E-08	5.187E-08	3.381E-08	1.935E-08	1.296E-08	9.442E-09	7.261E-09	5.793E-09	4.749E-09	3.975E-09	3.382E-09
ENE	5.203E-08	2.689E-08	1.741E-08	9.884E-09	6.586E-09	4.785E-09	3.671E-09	2.925E-09	2.395E-09	2.003E-09	1.703E-09
E	7.700E-08	3.977E-08	2.575E-08	1.461E-08	9.734E-09	7.073E-09	5.429E-09	4.327E-09	3.545E-09	2.966E-09	2.523E-09
ESE	7.774E-08	3.997E-08	2.581E-08	1.461E-08	9.722E-09	7.063E-09	5.422E-09	4.323E-09	3.544E-09	2.968E-09	2.527E-09
SE	1.189E-07	6.163E-08	3.999E-08	2.277E-08	1.521E-08	1.107E-08	8.509E-09	6.790E-09	5.569E-09	4.665E-09	3.972E-09
SSE	1.623E-07	8.413E-08	5.459E-08	3.109E-08	2.076E-08	1.511E-08	1.161E-08	9.267E-09	7.600E-09	6.365E-09	5.419E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.169E-06	1.915E-06	6.010E-07	3.054E-07	1.903E-07	8.423E-08	2.960E-08	1.399E-08	8.473E-09	5.774E-09
SSW	4.436E-06	1.015E-06	3.116E-07	1.564E-07	9.656E-08	4.219E-08	1.454E-08	6.785E-09	4.085E-09	2.772E-09
SW	2.595E-06	5.931E-07	1.811E-07	9.066E-08	5.587E-08	2.434E-08	8.354E-09	3.890E-09	2.340E-09	1.588E-09
WSW	2.345E-06	5.329E-07	1.638E-07	8.228E-08	5.085E-08	2.227E-08	7.717E-09	3.621E-09	2.189E-09	1.492E-09
W	1.699E-06	3.851E-07	1.165E-07	5.799E-08	3.560E-08	1.541E-08	5.253E-09	2.444E-09	1.473E-09	1.002E-09
WNW	2.528E-06	5.651E-07	1.680E-07	8.283E-08	5.050E-08	2.166E-08	7.278E-09	3.356E-09	2.014E-09	1.366E-09
NW	5.954E-06	1.352E-06	4.145E-07	2.080E-07	1.285E-07	5.626E-08	1.952E-08	9.197E-09	5.584E-09	3.821E-09
NNW	1.180E-05	2.754E-06	8.976E-07	4.660E-07	2.947E-07	1.336E-07	4.872E-08	2.363E-08	1.453E-08	1.001E-08
N	1.415E-05	3.321E-06	1.071E-06	5.529E-07	3.483E-07	1.571E-07	5.688E-08	2.752E-08	1.693E-08	1.168E-08
NNE	7.964E-06	1.868E-06	6.000E-07	3.091E-07	1.944E-07	8.749E-08	3.160E-08	1.527E-08	9.386E-09	6.469E-09
NE	4.780E-06	1.126E-06	3.669E-07	1.903E-07	1.203E-07	5.440E-08	1.972E-08	9.506E-09	5.815E-09	3.985E-09
ENE	2.625E-06	6.146E-07	1.963E-07	1.007E-07	6.317E-08	2.826E-08	1.009E-08	4.820E-09	2.936E-09	2.008E-09
E	3.862E-06	9.115E-07	2.908E-07	1.491E-07	9.350E-08	4.181E-08	1.492E-08	7.125E-09	4.344E-09	2.973E-09
ESE	3.978E-06	9.370E-07	2.964E-07	1.513E-07	9.453E-08	4.207E-08	1.493E-08	7.115E-09	4.340E-09	2.975E-09
SE	5.911E-06	1.391E-06	4.464E-07	2.296E-07	1.443E-07	6.474E-08	2.323E-08	1.115E-08	6.816E-09	4.676E-09
SSE	8.132E-06	1.901E-06	6.095E-07	3.135E-07	1.969E-07	8.838E-08	3.172E-08	1.522E-08	9.303E-09	6.381E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 2005

8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.504E-05	1.434E-05	7.522E-06	3.716E-06	1.451E-06	7.670E-07	4.758E-07	3.258E-07	2.383E-07	1.829E-07	1.454E-07
SSW	2.403E-05	7.859E-06	4.075E-06	1.990E-06	7.652E-07	4.000E-07	2.461E-07	1.674E-07	1.218E-07	9.304E-08	7.368E-08
SW	1.389E-05	4.590E-06	2.386E-06	1.165E-06	4.464E-07	2.328E-07	1.430E-07	9.712E-08	7.059E-08	5.385E-08	4.261E-08
WSW	1.282E-05	4.181E-06	2.148E-06	1.044E-06	4.015E-07	2.100E-07	1.293E-07	8.800E-08	6.406E-08	4.895E-08	3.878E-08
W	9.201E-06	3.015E-06	1.559E-06	7.593E-07	2.890E-07	1.500E-07	9.181E-08	6.217E-08	4.508E-08	3.432E-08	2.710E-08
WNW	1.346E-05	4.500E-06	2.319E-06	1.122E-06	4.222E-07	2.174E-07	1.322E-07	8.907E-08	6.430E-08	4.877E-08	3.839E-08
NW	3.241E-05	1.060E-05	5.456E-06	2.652E-06	1.018E-06	5.316E-07	3.270E-07	2.223E-07	1.618E-07	1.235E-07	9.785E-08
NNW	6.968E-05	2.117E-05	1.074E-05	5.257E-06	2.107E-06	1.134E-06	7.133E-07	4.938E-07	3.647E-07	2.821E-07	2.259E-07
N	8.227E-05	2.513E-05	1.294E-05	6.369E-06	2.533E-06	1.356E-06	8.496E-07	5.863E-07	4.319E-07	3.333E-07	2.664E-07
NNE	4.619E-05	1.413E-05	7.286E-06	3.589E-06	1.424E-06	7.606E-07	4.758E-07	3.280E-07	2.414E-07	1.862E-07	1.487E-07
NE	2.812E-05	8.515E-06	4.364E-06	2.150E-06	8.623E-07	4.640E-07	2.918E-07	2.020E-07	1.491E-07	1.153E-07	9.231E-08
ENE	1.500E-05	4.654E-06	2.405E-06	1.184E-06	4.681E-07	2.494E-07	1.557E-07	1.072E-07	7.875E-08	6.065E-08	4.838E-08
E	2.165E-05	6.792E-06	3.551E-06	1.757E-06	6.938E-07	3.695E-07	2.306E-07	1.586E-07	1.165E-07	8.970E-08	7.154E-08
ESE	2.223E-05	6.983E-06	3.660E-06	1.812E-06	7.114E-07	3.772E-07	2.346E-07	1.610E-07	1.180E-07	9.067E-08	7.220E-08
SE	3.396E-05	1.045E-05	5.415E-06	2.674E-06	1.060E-06	5.663E-07	3.541E-07	2.440E-07	1.794E-07	1.383E-07	1.104E-07
SSE	4.671E-05	1.445E-05	7.437E-06	3.656E-06	1.449E-06	7.734E-07	4.835E-07	3.331E-07	2.450E-07	1.888E-07	1.507E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.189E-07	5.816E-08	3.604E-08	1.917E-08	1.218E-08	8.521E-09	6.337E-09	4.916E-09	3.934E-09	3.223E-09	2.690E-09
SSW	6.003E-08	2.898E-08	1.780E-08	9.360E-09	5.904E-09	4.109E-09	3.044E-09	2.354E-09	1.878E-09	1.535E-09	1.279E-09
SW	3.469E-08	1.669E-08	1.023E-08	5.365E-09	3.378E-09	2.348E-09	1.738E-09	1.343E-09	1.071E-09	8.746E-10	7.282E-10
WSW	3.161E-08	1.529E-08	9.408E-09	4.961E-09	3.137E-09	2.187E-09	1.623E-09	1.257E-09	1.004E-09	8.218E-10	6.853E-10
W	2.202E-08	1.053E-08	6.426E-09	3.354E-09	2.109E-09	1.465E-09	1.083E-09	8.368E-10	6.671E-10	5.449E-10	4.537E-10
WNW	3.112E-08	1.474E-08	8.934E-09	4.620E-09	2.888E-09	1.997E-09	1.472E-09	1.134E-09	9.017E-10	7.351E-10	6.110E-10
NW	7.972E-08	3.853E-08	2.369E-08	1.249E-08	7.897E-09	5.509E-09	4.090E-09	3.169E-09	2.533E-09	2.074E-09	1.731E-09
NNW	1.858E-07	9.303E-08	5.858E-08	3.187E-08	2.055E-08	1.454E-08	1.092E-08	8.534E-09	6.873E-09	5.663E-09	4.750E-09
N	2.188E-07	1.089E-07	6.828E-08	3.694E-08	2.375E-08	1.677E-08	1.256E-08	9.808E-09	7.890E-09	6.495E-09	5.445E-09
NNE	1.220E-07	6.062E-08	3.797E-08	2.052E-08	1.318E-08	9.300E-09	6.966E-09	5.436E-09	4.372E-09	3.598E-09	3.016E-09
NE	7.591E-08	3.795E-08	2.387E-08	1.295E-08	8.339E-09	5.893E-09	4.417E-09	3.449E-09	2.774E-09	2.283E-09	1.913E-09
ENE	3.967E-08	1.961E-08	1.224E-08	6.581E-09	4.210E-09	2.962E-09	2.212E-09	1.722E-09	1.382E-09	1.135E-09	9.498E-10
E	5.864E-08	2.896E-08	1.806E-08	9.693E-09	6.193E-09	4.352E-09	3.248E-09	2.527E-09	2.027E-09	1.664E-09	1.392E-09
ESE	5.909E-08	2.903E-08	1.804E-08	9.641E-09	6.145E-09	4.311E-09	3.213E-09	2.498E-09	2.002E-09	1.643E-09	1.373E-09
SE	9.058E-08	4.488E-08	2.806E-08	1.511E-08	9.683E-09	6.819E-09	5.098E-09	3.972E-09	3.190E-09	2.622E-09	2.195E-09
SSE	1.237E-07	6.128E-08	3.832E-08	2.065E-08	1.323E-08	9.317E-09	6.966E-09	5.428E-09	4.360E-09	3.584E-09	3.000E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.347E-06	1.650E-06	4.934E-07	2.422E-07	1.467E-07	6.182E-08	1.981E-08	8.623E-09	4.948E-09	3.236E-09
SSW	3.989E-06	8.751E-07	2.557E-07	1.239E-07	7.436E-08	3.091E-08	9.699E-09	4.162E-09	2.370E-09	1.542E-09
SW	2.333E-06	5.112E-07	1.486E-07	7.180E-08	4.301E-08	1.782E-08	5.563E-09	2.379E-09	1.352E-09	8.784E-10
WSW	2.109E-06	4.592E-07	1.343E-07	6.514E-08	3.914E-08	1.630E-08	5.139E-09	2.215E-09	1.265E-09	8.253E-10
W	1.527E-06	3.318E-07	9.548E-08	4.586E-08	2.736E-08	1.126E-08	3.483E-09	1.484E-09	8.426E-10	5.474E-10
WNW	2.272E-06	4.868E-07	1.377E-07	6.546E-08	3.877E-08	1.580E-08	4.809E-09	2.025E-09	1.142E-09	7.385E-10
NW	5.352E-06	1.165E-06	3.397E-07	1.645E-07	9.875E-08	4.109E-08	1.293E-08	5.578E-09	3.190E-09	2.083E-09
NNW	1.062E-05	2.375E-06	7.377E-07	3.701E-07	2.277E-07	9.834E-08	3.277E-08	1.470E-08	8.582E-09	5.684E-09
N	1.273E-05	2.862E-06	8.794E-07	4.385E-07	2.686E-07	1.153E-07	3.804E-08	1.695E-08	9.864E-09	6.519E-09
NNE	7.164E-06	1.610E-06	4.926E-07	2.451E-07	1.499E-07	6.420E-08	2.113E-08	9.401E-09	5.468E-09	3.612E-09
NE	4.302E-06	9.714E-07	3.018E-07	1.513E-07	9.305E-08	4.013E-08	1.333E-08	5.955E-09	3.468E-09	2.292E-09
ENE	2.362E-06	5.300E-07	1.613E-07	7.998E-08	4.879E-08	2.079E-08	6.786E-09	2.995E-09	1.733E-09	1.140E-09
E	3.474E-06	7.859E-07	2.388E-07	1.183E-07	7.214E-08	3.071E-08	9.996E-09	4.401E-09	2.543E-09	1.671E-09
ESE	3.577E-06	8.075E-07	2.432E-07	1.199E-07	7.282E-08	3.083E-08	9.954E-09	4.361E-09	2.513E-09	1.649E-09
SE	5.316E-06	1.199E-06	3.666E-07	1.822E-07	1.113E-07	4.756E-08	1.558E-08	6.895E-09	3.996E-09	2.632E-09
SSE	7.315E-06	1.639E-06	5.006E-07	2.487E-07	1.520E-07	6.494E-08	2.128E-08	9.420E-09	5.461E-09	3.598E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.847E-07	6.245E-08	3.207E-08	1.524E-08	5.476E-09	2.716E-09	1.599E-09	1.047E-09	7.367E-10	5.460E-10	4.207E-10
SSW	1.100E-07	3.718E-08	1.909E-08	9.076E-09	3.260E-09	1.617E-09	9.520E-10	6.233E-10	4.386E-10	3.251E-10	2.505E-10
SW	6.362E-08	2.151E-08	1.105E-08	5.252E-09	1.886E-09	9.355E-10	5.508E-10	3.607E-10	2.538E-10	1.881E-10	1.449E-10
WSW	6.092E-08	2.060E-08	1.058E-08	5.028E-09	1.806E-09	8.958E-10	5.274E-10	3.454E-10	2.430E-10	1.801E-10	1.388E-10
W	5.330E-08	1.802E-08	9.255E-09	4.400E-09	1.580E-09	7.838E-10	4.615E-10	3.022E-10	2.126E-10	1.576E-10	1.214E-10
WNW	8.840E-08	2.989E-08	1.535E-08	7.297E-09	2.621E-09	1.300E-09	7.654E-10	5.012E-10	3.527E-10	2.614E-10	2.014E-10
NW	2.013E-07	6.806E-08	3.495E-08	1.661E-08	5.968E-09	2.960E-09	1.743E-09	1.141E-09	8.029E-10	5.950E-10	4.585E-10
NNW	2.497E-07	8.443E-08	4.335E-08	2.061E-08	7.403E-09	3.671E-09	2.162E-09	1.415E-09	9.960E-10	7.381E-10	5.688E-10
N	3.899E-07	1.318E-07	6.769E-08	3.218E-08	1.156E-08	5.733E-09	3.376E-09	2.210E-09	1.555E-09	1.153E-09	8.882E-10
NNE	1.942E-07	6.567E-08	3.372E-08	1.603E-08	5.758E-09	2.855E-09	1.681E-09	1.101E-09	7.747E-10	5.741E-10	4.424E-10
NE	8.169E-08	2.763E-08	1.418E-08	6.743E-09	2.422E-09	1.201E-09	7.073E-10	4.631E-10	3.259E-10	2.415E-10	1.861E-10
ENE	5.513E-08	1.864E-08	9.571E-09	4.550E-09	1.634E-09	8.106E-10	4.773E-10	3.125E-10	2.199E-10	1.630E-10	1.256E-10
E	8.683E-08	2.936E-08	1.508E-08	7.167E-09	2.575E-09	1.277E-09	7.518E-10	4.923E-10	3.464E-10	2.567E-10	1.978E-10
ESE	1.206E-07	4.077E-08	2.093E-08	9.952E-09	3.575E-09	1.773E-09	1.044E-09	6.835E-10	4.809E-10	3.564E-10	2.747E-10
SE	1.617E-07	5.466E-08	2.807E-08	1.334E-08	4.793E-09	2.377E-09	1.400E-09	9.164E-10	6.448E-10	4.779E-10	3.683E-10
SSE	2.143E-07	7.246E-08	3.720E-08	1.769E-08	6.353E-09	3.151E-09	1.855E-09	1.215E-09	8.548E-10	6.335E-10	4.882E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.343E-10	1.485E-10	8.995E-11	4.546E-11	2.752E-11	1.845E-11	1.322E-11	9.927E-12	7.718E-12	6.165E-12	5.032E-12
SSW	1.990E-10	8.840E-11	5.355E-11	2.707E-11	1.638E-11	1.098E-11	7.871E-12	5.910E-12	4.595E-12	3.671E-12	2.996E-12
SW	1.151E-10	5.115E-11	3.099E-11	1.566E-11	9.479E-12	6.356E-12	4.554E-12	3.420E-12	2.659E-12	2.124E-12	1.734E-12
WSW	1.103E-10	4.898E-11	2.967E-11	1.500E-11	9.077E-12	6.086E-12	4.361E-12	3.274E-12	2.546E-12	2.034E-12	1.660E-12
W	9.647E-11	4.286E-11	2.596E-11	1.312E-11	7.942E-12	5.325E-12	3.816E-12	2.865E-12	2.228E-12	1.779E-12	1.452E-12
WNW	1.600E-10	7.108E-11	4.306E-11	2.176E-11	1.317E-11	8.831E-12	6.328E-12	4.752E-12	3.695E-12	2.951E-12	2.409E-12
NW	3.643E-10	1.618E-10	9.803E-11	4.955E-11	2.999E-11	2.011E-11	1.441E-11	1.082E-11	8.412E-12	6.719E-12	5.485E-12
NNW	4.519E-10	2.007E-10	1.216E-10	6.146E-11	3.720E-11	2.494E-11	1.787E-11	1.342E-11	1.043E-11	8.335E-12	6.803E-12
N	7.056E-10	3.135E-10	1.899E-10	9.598E-11	5.809E-11	3.895E-11	2.791E-11	2.096E-11	1.629E-11	1.302E-11	1.062E-11
NNE	3.515E-10	1.561E-10	9.458E-11	4.781E-11	2.893E-11	1.940E-11	1.390E-11	1.044E-11	8.116E-12	6.483E-12	5.292E-12
NE	1.479E-10	6.568E-11	3.979E-11	2.011E-11	1.217E-11	8.161E-12	5.848E-12	4.391E-12	3.414E-12	2.727E-12	2.226E-12
ENE	9.977E-11	4.432E-11	2.685E-11	1.357E-11	8.214E-12	5.507E-12	3.946E-12	2.963E-12	2.304E-12	1.840E-12	1.502E-12
E	1.572E-10	6.981E-11	4.229E-11	2.138E-11	1.294E-11	8.674E-12	6.216E-12	4.667E-12	3.629E-12	2.899E-12	2.366E-12
ESE	2.182E-10	9.693E-11	5.872E-11	2.968E-11	1.796E-11	1.204E-11	8.630E-12	6.480E-12	5.039E-12	4.025E-12	3.285E-12
SE	2.926E-10	1.300E-10	7.873E-11	3.979E-11	2.409E-11	1.615E-11	1.157E-11	8.689E-12	6.756E-12	5.397E-12	4.405E-12
SSE	3.878E-10	1.723E-10	1.044E-10	5.275E-11	3.193E-11	2.141E-11	1.534E-11	1.152E-11	8.955E-12	7.154E-12	5.839E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.134E-08	6.420E-09	1.676E-09	7.527E-10	4.258E-10	1.638E-10	4.737E-11	1.878E-11	1.003E-11	6.206E-12
SSW	1.866E-08	3.822E-09	9.978E-10	4.481E-10	2.535E-10	9.749E-11	2.820E-11	1.118E-11	5.969E-12	3.695E-12
SW	1.080E-08	2.212E-09	5.774E-10	2.593E-10	1.467E-10	5.641E-11	1.632E-11	6.468E-12	3.454E-12	2.138E-12
WSW	1.034E-08	2.118E-09	5.528E-10	2.483E-10	1.405E-10	5.401E-11	1.563E-11	6.193E-12	3.307E-12	2.047E-12
W	9.046E-09	1.853E-09	4.837E-10	2.172E-10	1.229E-10	4.726E-11	1.367E-11	5.419E-12	2.894E-12	1.791E-12
WNW	1.500E-08	3.073E-09	8.023E-10	3.603E-10	2.038E-10	7.839E-11	2.268E-11	8.988E-12	4.799E-12	2.971E-12
NW	3.416E-08	6.997E-09	1.827E-09	8.203E-10	4.641E-10	1.785E-10	5.163E-11	2.046E-11	1.093E-11	6.764E-12
NNW	4.237E-08	8.679E-09	2.266E-09	1.018E-09	5.757E-10	2.214E-10	6.404E-11	2.538E-11	1.355E-11	8.390E-12
N	6.616E-08	1.355E-08	3.538E-09	1.589E-09	8.989E-10	3.457E-10	1.000E-10	3.964E-11	2.117E-11	1.310E-11
NNE	3.296E-08	6.751E-09	1.762E-09	7.915E-10	4.477E-10	1.722E-10	4.981E-11	1.974E-11	1.054E-11	6.526E-12
NE	1.386E-08	2.840E-09	7.413E-10	3.330E-10	1.884E-10	7.243E-11	2.096E-11	8.305E-12	4.435E-12	2.745E-12
ENE	9.355E-09	1.916E-09	5.003E-10	2.247E-10	1.271E-10	4.888E-11	1.414E-11	5.604E-12	2.993E-12	1.852E-12
E	1.474E-08	3.018E-09	7.880E-10	3.539E-10	2.002E-10	7.699E-11	2.227E-11	8.828E-12	4.714E-12	2.918E-12
ESE	2.046E-08	4.191E-09	1.094E-09	4.914E-10	2.780E-10	1.069E-10	3.093E-11	1.226E-11	6.545E-12	4.051E-12
SE	2.743E-08	5.619E-09	1.467E-09	6.588E-10	3.727E-10	1.433E-10	4.146E-11	1.643E-11	8.776E-12	5.432E-12
SSE	3.636E-08	7.449E-09	1.945E-09	8.733E-10	4.941E-10	1.900E-10	5.496E-11	2.178E-11	1.163E-11	7.200E-12

VENTS GROUND LEVEL RELEASES - JAN-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	7.3E-06	7.2E-06	6.5E-06	2.7E-08
A	Site Boundary	SSW	.82	3.6E-06	3.6E-06	3.2E-06	1.5E-08
A	Site Boundary	SW	.97	1.4E-06	1.4E-06	1.2E-06	5.6E-09
A	Site Boundary	WSW	.93	1.4E-06	1.4E-06	1.3E-06	6.1E-09
A	Site Boundary	W	.91	1.1E-06	1.1E-06	9.5E-07	5.6E-09
A	Site Boundary	WNW	.94	1.5E-06	1.5E-06	1.3E-06	8.6E-09
A	Site Boundary	NW	.81	5.1E-06	5.0E-06	4.5E-06	2.9E-08
A	Site Boundary	NNW	.69	1.4E-05	1.4E-05	1.2E-05	5.0E-08
A	Site Boundary	N	.67	1.7E-05	1.7E-05	1.5E-05	8.1E-08
A	Site Boundary	NNE	.60	1.2E-05	1.2E-05	1.0E-05	4.9E-08
A	Site Boundary	NE	.62	6.5E-06	6.5E-06	5.9E-06	1.9E-08
A	Site Boundary	ENE	.59	3.9E-06	3.9E-06	3.6E-06	1.4E-08
A	Site Boundary	E	.53	6.9E-06	6.9E-06	6.3E-06	2.7E-08
A	Site Boundary	ESE	.54	6.8E-06	6.8E-06	6.2E-06	3.6E-08
A	Site Boundary	SE	.65	7.6E-06	7.5E-06	6.8E-06	3.6E-08
A	Site Boundary	SSE	.81	6.9E-06	6.9E-06	6.1E-06	3.0E-08
A	Nearest Res	SW	1.30	7.3E-07	7.2E-07	6.2E-07	2.7E-09
A	Nearest Res	WSW	1.30	6.5E-07	6.5E-07	5.6E-07	2.6E-09
A	Nearest Res	W	1.00	8.7E-07	8.7E-07	7.6E-07	4.4E-09
A	Nearest Res	WNW	1.70	3.8E-07	3.7E-07	3.2E-07	1.9E-09
A	Nearest Res	NW	.90	3.9E-06	3.9E-06	3.5E-06	2.2E-08
A	Nearest Res	NNW	1.90	1.5E-06	1.5E-06	1.3E-06	4.2E-09
A	Nearest Res	N	3.00	7.4E-07	7.3E-07	5.9E-07	2.2E-09
A	Nearest Res	ENE	1.70	4.2E-07	4.2E-07	3.5E-07	1.2E-09
A	Nearest Res	E	1.90	5.0E-07	4.9E-07	4.1E-07	1.4E-09
A	Nearest Res	ESE	2.30	3.4E-07	3.4E-07	2.8E-07	1.3E-09
A	Nearest Res	SE	3.20	2.7E-07	2.7E-07	2.1E-07	7.9E-10
A	Nearest Cow	NNW	3.50	4.7E-07	4.6E-07	3.6E-07	1.0E-09
A	Nearest Garde	SW	2.20	2.3E-07	2.3E-07	1.9E-07	7.5E-10
A	Nearest Garde	WSW	1.90	2.8E-07	2.8E-07	2.4E-07	1.0E-09
A	Nearest Garde	WNW	2.40	1.8E-07	1.8E-07	1.4E-07	8.4E-10
A	Nearest Garde	ESE	3.00	2.0E-07	2.0E-07	1.6E-07	6.8E-10
A	Nearest Garde	SE	3.50	2.3E-07	2.3E-07	1.8E-07	6.5E-10

Atmospheric Diffusion Estimates

Elevated Releases

January-March 2005

ERP ELEVATED STACK RELEASES - JAN-MAR 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.844E-09	4.782E-08	1.133E-07	1.459E-07	1.495E-07	1.248E-07	1.006E-07	8.152E-08	6.714E-08	7.122E-08	7.127E-08
SSW	4.280E-09	1.387E-08	4.239E-08	7.263E-08	8.894E-08	7.879E-08	6.543E-08	6.761E-08	6.457E-08	5.428E-08	4.631E-08
SW	3.038E-11	2.414E-09	3.302E-08	8.487E-08	1.390E-07	9.311E-08	6.629E-08	4.971E-08	3.883E-08	3.131E-08	2.591E-08
WSW	3.377E-16	4.690E-10	2.695E-08	8.432E-08	1.545E-07	9.802E-08	6.772E-08	4.985E-08	3.846E-08	3.076E-08	2.530E-08
W	1.847E-13	2.411E-08	1.287E-07	1.670E-07	1.497E-07	9.234E-08	6.279E-08	4.573E-08	3.501E-08	2.783E-08	2.277E-08
WNW	4.381E-10	2.728E-08	1.896E-07	3.390E-07	3.965E-07	2.381E-07	1.591E-07	1.182E-07	9.173E-08	7.200E-08	5.832E-08
NW	3.038E-11	3.082E-09	8.679E-08	2.696E-07	5.057E-07	3.003E-07	1.997E-07	1.459E-07	1.120E-07	8.805E-08	7.147E-08
NNW	7.120E-11	6.003E-09	4.408E-08	9.911E-08	1.654E-07	1.617E-07	1.428E-07	1.212E-07	1.038E-07	8.145E-08	6.603E-08
N	1.164E-09	7.633E-09	2.499E-08	4.209E-08	5.494E-08	5.303E-08	4.680E-08	3.971E-08	3.388E-08	2.921E-08	2.546E-08
NNE	7.606E-09	4.109E-08	6.194E-08	7.028E-08	7.542E-08	6.791E-08	5.807E-08	4.928E-08	4.209E-08	3.633E-08	3.173E-08
NE	2.236E-10	1.273E-08	2.394E-08	2.620E-08	2.701E-08	2.456E-08	2.144E-08	1.861E-08	1.624E-08	1.430E-08	1.272E-08
ENE	1.698E-16	2.780E-10	5.371E-09	1.151E-08	1.646E-08	1.593E-08	1.409E-08	1.222E-08	1.061E-08	9.287E-09	8.212E-09
E	1.128E-09	4.545E-09	1.021E-08	1.650E-08	2.183E-08	2.075E-08	1.815E-08	1.559E-08	1.342E-08	1.165E-08	1.022E-08
ESE	1.441E-10	9.293E-09	2.649E-08	3.779E-08	4.342E-08	3.872E-08	3.261E-08	2.730E-08	2.305E-08	1.970E-08	1.706E-08
SE	2.060E-10	1.141E-08	3.526E-08	5.091E-08	5.749E-08	5.078E-08	4.263E-08	3.568E-08	3.017E-08	2.585E-08	2.243E-08
SSE	6.938E-09	4.297E-08	7.580E-08	8.850E-08	8.901E-08	7.574E-08	6.228E-08	5.137E-08	4.293E-08	3.641E-08	3.134E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.174E-08	3.721E-08	2.373E-08	1.327E-08	9.082E-09	6.755E-09	5.213E-09	4.191E-09	3.496E-09	2.977E-09	2.568E-09
SSW	4.073E-08	2.539E-08	1.611E-08	8.942E-09	6.098E-09	4.477E-09	3.440E-09	2.756E-09	2.278E-09	1.925E-09	1.656E-09
SW	2.294E-08	1.404E-08	8.960E-09	5.003E-09	3.355E-09	2.454E-09	1.899E-09	1.522E-09	1.257E-09	1.062E-09	9.134E-10
WSW	2.195E-08	1.314E-08	8.932E-09	5.264E-09	3.498E-09	2.553E-09	1.976E-09	1.592E-09	1.322E-09	1.122E-09	9.694E-10
W	1.906E-08	1.006E-08	6.794E-09	4.024E-09	2.753E-09	2.003E-09	1.542E-09	1.237E-09	1.023E-09	8.652E-10	7.451E-10
WNW	4.874E-08	2.562E-08	1.665E-08	9.485E-09	6.298E-09	4.587E-09	3.546E-09	2.850E-09	2.356E-09	1.992E-09	1.714E-09
NW	5.988E-08	3.173E-08	2.078E-08	1.191E-08	7.900E-09	5.755E-09	4.470E-09	3.601E-09	2.984E-09	2.528E-09	2.181E-09
NNW	5.575E-08	3.050E-08	1.963E-08	1.113E-08	7.460E-09	5.480E-09	4.294E-09	3.495E-09	2.946E-09	2.520E-09	2.181E-09
N	2.248E-08	1.402E-08	1.122E-08	8.635E-09	7.255E-09	6.061E-09	4.769E-09	3.883E-09	3.241E-09	2.766E-09	2.401E-09
NNE	3.383E-08	3.920E-08	2.520E-08	1.429E-08	9.591E-09	7.056E-09	5.497E-09	4.455E-09	3.716E-09	3.169E-09	2.749E-09
NE	1.480E-08	3.269E-08	2.155E-08	1.265E-08	8.711E-09	6.535E-09	5.250E-09	4.353E-09	3.705E-09	3.188E-09	2.787E-09
ENE	8.977E-09	1.825E-08	1.238E-08	7.508E-09	5.264E-09	3.998E-09	3.426E-09	2.958E-09	2.498E-09	2.154E-09	1.887E-09
E	1.074E-08	1.375E-08	9.040E-09	5.261E-09	3.587E-09	2.669E-09	2.097E-09	1.712E-09	1.479E-09	1.294E-09	1.125E-09
ESE	1.705E-08	1.942E-08	1.299E-08	7.738E-09	5.362E-09	4.036E-09	3.202E-09	2.634E-09	2.225E-09	1.917E-09	1.679E-09
SE	1.970E-08	1.209E-08	9.354E-09	6.830E-09	5.091E-09	4.093E-09	3.451E-09	2.999E-09	2.526E-09	2.172E-09	1.897E-09
SSE	3.215E-08	3.308E-08	2.118E-08	1.195E-08	7.999E-09	5.873E-09	4.570E-09	3.700E-09	3.083E-09	2.627E-09	2.277E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.132E-07	1.377E-07	9.942E-08	7.280E-08	6.772E-08	3.667E-08	1.373E-08	6.759E-09	4.219E-09	2.979E-09
SSW	4.949E-08	8.081E-08	6.987E-08	6.152E-08	4.660E-08	2.468E-08	9.271E-09	4.494E-09	2.769E-09	1.930E-09
SW	4.926E-08	1.066E-07	6.681E-08	3.907E-08	2.641E-08	1.376E-08	5.150E-09	2.472E-09	1.529E-09	1.065E-09
WSW	4.656E-08	1.138E-07	6.865E-08	3.878E-08	2.568E-08	1.323E-08	5.294E-09	2.574E-09	1.599E-09	1.125E-09
W	1.225E-07	1.280E-07	6.384E-08	3.534E-08	2.289E-08	1.061E-08	4.075E-09	2.018E-09	1.243E-09	8.675E-10
WNW	2.199E-07	3.133E-07	1.638E-07	9.177E-08	5.883E-08	2.677E-08	9.660E-09	4.627E-09	2.861E-09	1.997E-09
NW	1.494E-07	3.619E-07	2.050E-07	1.125E-07	7.209E-08	3.312E-08	1.210E-08	5.813E-09	3.614E-09	2.534E-09
NNW	6.008E-08	1.490E-07	1.392E-07	1.003E-07	6.679E-08	3.128E-08	1.139E-08	5.534E-09	3.514E-09	2.521E-09
N	2.874E-08	5.124E-08	4.563E-08	3.377E-08	2.547E-08	1.466E-08	8.596E-09	5.863E-09	3.892E-09	2.772E-09
NNE	6.101E-08	7.094E-08	5.718E-08	4.195E-08	3.387E-08	3.179E-08	1.463E-08	7.108E-09	4.471E-09	3.175E-09
NE	2.245E-08	2.574E-08	2.114E-08	1.617E-08	1.396E-08	2.376E-08	1.288E-08	6.601E-09	4.362E-09	3.193E-09
ENE	6.967E-09	1.513E-08	1.383E-08	1.057E-08	8.814E-09	1.358E-08	7.593E-09	4.107E-09	2.916E-09	2.157E-09
E	1.175E-08	2.017E-08	1.782E-08	1.336E-08	1.083E-08	1.099E-08	5.357E-09	2.685E-09	1.733E-09	1.286E-09
ESE	2.769E-08	4.008E-08	3.212E-08	2.299E-08	1.784E-08	1.603E-08	7.849E-09	4.056E-09	2.640E-09	1.920E-09
SE	3.691E-08	5.304E-08	4.202E-08	3.010E-08	2.243E-08	1.256E-08	6.618E-09	4.103E-09	2.948E-09	2.175E-09
SSE	7.415E-08	8.300E-08	6.150E-08	4.286E-08	3.314E-08	2.759E-08	1.224E-08	5.919E-09	3.713E-09	2.633E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.843E-09	4.779E-08	1.131E-07	1.457E-07	1.492E-07	1.244E-07	1.002E-07	8.116E-08	6.678E-08	7.077E-08	7.074E-08
SSW	4.279E-09	1.387E-08	4.234E-08	7.252E-08	8.870E-08	7.850E-08	6.512E-08	6.721E-08	6.411E-08	5.384E-08	4.587E-08
SW	3.038E-11	2.413E-09	3.298E-08	8.470E-08	1.385E-07	9.268E-08	6.590E-08	4.936E-08	3.850E-08	3.101E-08	2.562E-08
WSW	3.376E-16	4.686E-10	2.690E-08	8.410E-08	1.538E-07	9.744E-08	6.721E-08	4.939E-08	3.805E-08	3.038E-08	2.494E-08
W	1.847E-13	2.409E-08	1.285E-07	1.666E-07	1.491E-07	9.185E-08	6.236E-08	4.535E-08	3.467E-08	2.751E-08	2.248E-08
WNW	4.380E-10	2.727E-08	1.893E-07	3.382E-07	3.949E-07	2.367E-07	1.580E-07	1.171E-07	9.076E-08	7.112E-08	5.751E-08
NW	3.038E-11	3.080E-09	8.668E-08	2.690E-07	5.037E-07	2.987E-07	1.984E-07	1.447E-07	1.108E-07	8.705E-08	7.054E-08
NNW	7.117E-11	6.000E-09	4.403E-08	9.893E-08	1.648E-07	1.609E-07	1.419E-07	1.203E-07	1.029E-07	8.060E-08	6.525E-08
N	1.163E-09	7.630E-09	2.496E-08	4.201E-08	5.476E-08	5.277E-08	4.650E-08	3.941E-08	3.358E-08	2.890E-08	2.516E-08
NNE	7.604E-09	4.108E-08	6.188E-08	7.015E-08	7.514E-08	6.755E-08	5.766E-08	4.885E-08	4.165E-08	3.589E-08	3.128E-08
NE	2.236E-10	1.272E-08	2.392E-08	2.616E-08	2.692E-08	2.445E-08	2.131E-08	1.846E-08	1.609E-08	1.415E-08	1.257E-08
ENE	1.698E-16	2.777E-10	5.364E-09	1.148E-08	1.641E-08	1.587E-08	1.401E-08	1.214E-08	1.053E-08	9.206E-09	8.131E-09
E	1.128E-09	4.544E-09	1.020E-08	1.647E-08	2.174E-08	2.063E-08	1.801E-08	1.544E-08	1.327E-08	1.150E-08	1.007E-08
ESE	1.441E-10	9.288E-09	2.647E-08	3.772E-08	4.329E-08	3.857E-08	3.244E-08	2.713E-08	2.288E-08	1.953E-08	1.689E-08
SE	2.059E-10	1.141E-08	3.524E-08	5.085E-08	5.738E-08	5.064E-08	4.248E-08	3.553E-08	3.002E-08	2.569E-08	2.228E-08
SSE	6.937E-09	4.295E-08	7.574E-08	8.839E-08	8.882E-08	7.550E-08	6.203E-08	5.112E-08	4.268E-08	3.617E-08	3.110E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.122E-08	3.668E-08	2.327E-08	1.288E-08	8.714E-09	6.407E-09	4.892E-09	3.891E-09	3.209E-09	2.702E-09	2.305E-09
SSW	4.030E-08	2.494E-08	1.573E-08	8.617E-09	5.794E-09	4.195E-09	3.181E-09	2.515E-09	2.051E-09	1.711E-09	1.453E-09
SW	2.266E-08	1.377E-08	8.738E-09	4.819E-09	3.192E-09	2.306E-09	1.764E-09	1.397E-09	1.140E-09	9.524E-10	8.101E-10
WSW	2.160E-08	1.284E-08	8.660E-09	5.029E-09	3.294E-09	2.370E-09	1.809E-09	1.438E-09	1.177E-09	9.861E-10	8.408E-10
W	1.879E-08	9.842E-09	6.591E-09	3.841E-09	2.587E-09	1.852E-09	1.405E-09	1.111E-09	9.048E-10	7.542E-10	6.402E-10
WNW	4.799E-08	2.501E-08	1.612E-08	9.039E-09	5.909E-09	4.238E-09	3.228E-09	2.556E-09	2.083E-09	1.735E-09	1.472E-09
NW	5.901E-08	3.103E-08	2.017E-08	1.140E-08	7.452E-09	5.352E-09	4.100E-09	3.258E-09	2.663E-09	2.227E-09	1.895E-09
NNW	5.502E-08	2.987E-08	1.909E-08	1.067E-08	7.060E-09	5.117E-09	3.955E-09	3.176E-09	2.641E-09	2.228E-09	1.904E-09
N	2.219E-08	1.374E-08	1.094E-08	8.327E-09	6.913E-09	5.700E-09	4.433E-09	3.567E-09	2.945E-09	2.485E-09	2.134E-09
NNE	3.330E-08	3.838E-08	2.450E-08	1.370E-08	9.083E-09	6.598E-09	5.078E-09	4.066E-09	3.352E-09	2.825E-09	2.423E-09
NE	1.461E-08	3.216E-08	2.108E-08	1.225E-08	8.343E-09	6.194E-09	4.924E-09	4.041E-09	3.404E-09	2.900E-09	2.510E-09
ENE	8.876E-09	1.786E-08	1.202E-08	7.177E-09	4.955E-09	3.707E-09	3.125E-09	2.654E-09	2.208E-09	1.875E-09	1.618E-09
E	1.056E-08	1.347E-08	8.792E-09	5.050E-09	3.401E-09	2.500E-09	1.941E-09	1.567E-09	1.340E-09	1.160E-09	9.981E-10
ESE	1.686E-08	1.909E-08	1.270E-08	7.480E-09	5.126E-09	3.816E-09	2.994E-09	2.436E-09	2.035E-09	1.735E-09	1.503E-09
SE	1.955E-08	1.195E-08	9.208E-09	6.667E-09	4.928E-09	3.929E-09	3.283E-09	2.828E-09	2.362E-09	2.014E-09	1.745E-09
SSE	3.187E-08	3.264E-08	2.080E-08	1.163E-08	7.718E-09	5.618E-09	4.333E-09	3.479E-09	2.875E-09	2.429E-09	2.088E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.131E-07	1.374E-07	9.905E-08	7.241E-08	6.722E-08	3.617E-08	1.334E-08	6.416E-09	3.917E-09	2.705E-09
SSW	4.942E-08	8.057E-08	6.953E-08	6.109E-08	4.617E-08	2.426E-08	8.942E-09	4.216E-09	2.529E-09	1.716E-09
SW	4.917E-08	1.062E-07	6.643E-08	3.875E-08	2.612E-08	1.351E-08	4.966E-09	2.326E-09	1.404E-09	9.554E-10
WSW	4.645E-08	1.133E-07	6.815E-08	3.837E-08	2.532E-08	1.293E-08	5.065E-09	2.392E-09	1.445E-09	9.889E-10
W	1.222E-07	1.275E-07	6.342E-08	3.500E-08	2.260E-08	1.038E-08	3.895E-09	1.869E-09	1.116E-09	7.566E-10
WNW	2.195E-07	3.120E-07	1.626E-07	9.081E-08	5.802E-08	2.617E-08	9.222E-09	4.280E-09	2.568E-09	1.741E-09
NW	1.491E-07	3.604E-07	2.036E-07	1.114E-07	7.116E-08	3.242E-08	1.159E-08	5.411E-09	3.272E-09	2.233E-09
NNW	5.998E-08	1.484E-07	1.383E-07	9.936E-08	6.601E-08	3.067E-08	1.094E-08	5.170E-09	3.195E-09	2.231E-09
N	2.869E-08	5.104E-08	4.534E-08	3.346E-08	2.517E-08	1.437E-08	8.278E-09	5.517E-09	3.578E-09	2.491E-09
NNE	6.093E-08	7.066E-08	5.677E-08	4.151E-08	3.339E-08	3.108E-08	1.405E-08	6.652E-09	4.083E-09	2.833E-09
NE	2.243E-08	2.565E-08	2.101E-08	1.603E-08	1.379E-08	2.333E-08	1.247E-08	6.259E-09	4.051E-09	2.905E-09
ENE	6.954E-09	1.507E-08	1.376E-08	1.048E-08	8.726E-09	1.327E-08	7.265E-09	3.807E-09	2.619E-09	1.879E-09
E	1.173E-08	2.008E-08	1.768E-08	1.321E-08	1.067E-08	1.074E-08	5.149E-09	2.517E-09	1.587E-09	1.153E-09
ESE	2.765E-08	3.995E-08	3.195E-08	2.282E-08	1.766E-08	1.576E-08	7.594E-09	3.836E-09	2.443E-09	1.738E-09
SE	3.688E-08	5.293E-08	4.187E-08	2.994E-08	2.228E-08	1.242E-08	6.459E-09	3.937E-09	2.781E-09	2.018E-09
SSE	7.408E-08	8.281E-08	6.126E-08	4.261E-08	3.289E-08	2.721E-08	1.193E-08	5.664E-09	3.493E-09	2.435E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.844E-09	4.742E-08	1.118E-07	1.445E-07	1.472E-07	1.219E-07	9.740E-08	7.829E-08	6.396E-08	6.752E-08	6.730E-08
SSW	4.280E-09	1.377E-08	4.219E-08	7.246E-08	8.800E-08	7.724E-08	6.356E-08	6.518E-08	6.182E-08	5.158E-08	4.370E-08
SW	3.038E-11	2.398E-09	3.294E-08	8.475E-08	1.373E-07	9.109E-08	6.433E-08	4.790E-08	3.718E-08	2.981E-08	2.454E-08
WSW	3.376E-16	4.689E-10	2.693E-08	8.420E-08	1.526E-07	9.592E-08	6.575E-08	4.807E-08	3.688E-08	2.933E-08	2.401E-08
W	1.847E-13	2.411E-08	1.279E-07	1.650E-07	1.462E-07	8.936E-08	6.027E-08	4.359E-08	3.317E-08	2.621E-08	2.134E-08
WNW	4.381E-10	2.712E-08	1.888E-07	3.359E-07	3.887E-07	2.307E-07	1.528E-07	1.126E-07	8.682E-08	6.765E-08	5.442E-08
NW	3.038E-11	3.066E-09	8.668E-08	2.684E-07	4.993E-07	2.940E-07	1.942E-07	1.410E-07	1.077E-07	8.421E-08	6.793E-08
NNW	7.119E-11	5.959E-09	4.387E-08	9.885E-08	1.637E-07	1.589E-07	1.397E-07	1.181E-07	1.008E-07	7.866E-08	6.338E-08
N	1.164E-09	7.572E-09	2.481E-08	4.191E-08	5.433E-08	5.203E-08	4.557E-08	3.841E-08	3.257E-08	2.791E-08	2.420E-08
NNE	7.605E-09	4.073E-08	6.091E-08	6.930E-08	7.417E-08	6.636E-08	5.635E-08	4.750E-08	4.032E-08	3.460E-08	3.006E-08
NE	2.236E-10	1.261E-08	2.352E-08	2.577E-08	2.652E-08	2.401E-08	2.086E-08	1.802E-08	1.567E-08	1.375E-08	1.219E-08
ENE	1.698E-16	2.779E-10	5.369E-09	1.150E-08	1.631E-08	1.567E-08	1.376E-08	1.186E-08	1.025E-08	8.933E-09	7.868E-09
E	1.128E-09	4.507E-09	1.012E-08	1.642E-08	2.158E-08	2.035E-08	1.765E-08	1.505E-08	1.287E-08	1.111E-08	9.692E-09
ESE	1.441E-10	9.215E-09	2.620E-08	3.747E-08	4.283E-08	3.791E-08	3.168E-08	2.634E-08	2.209E-08	1.877E-08	1.616E-08
SE	2.060E-10	1.132E-08	3.493E-08	5.056E-08	5.677E-08	4.978E-08	4.150E-08	3.451E-08	2.901E-08	2.473E-08	2.135E-08
SSE	6.938E-09	4.260E-08	7.470E-08	8.743E-08	8.759E-08	7.401E-08	6.042E-08	4.949E-08	4.109E-08	3.464E-08	2.965E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	5.798E-08	3.409E-08	2.107E-08	1.112E-08	7.171E-09	5.065E-09	3.744E-09	2.895E-09	2.330E-09	1.924E-09	1.613E-09
SSW	3.822E-08	2.322E-08	1.427E-08	7.467E-09	4.805E-09	3.379E-09	2.501E-09	1.936E-09	1.550E-09	1.271E-09	1.064E-09
SW	2.165E-08	1.295E-08	8.000E-09	4.193E-09	2.629E-09	1.817E-09	1.352E-09	1.046E-09	8.364E-10	6.857E-10	5.734E-10
WSW	2.075E-08	1.213E-08	7.982E-09	4.457E-09	2.827E-09	1.982E-09	1.480E-09	1.154E-09	9.291E-10	7.667E-10	6.449E-10
W	1.778E-08	9.201E-09	6.102E-09	3.410E-09	2.201E-09	1.536E-09	1.140E-09	8.844E-10	7.089E-10	5.826E-10	4.882E-10
WNW	4.517E-08	2.292E-08	1.441E-08	7.702E-09	4.780E-09	3.288E-09	2.434E-09	1.887E-09	1.508E-09	1.234E-09	1.030E-09
NW	5.655E-08	2.895E-08	1.832E-08	9.822E-09	6.090E-09	4.189E-09	3.113E-09	2.421E-09	1.941E-09	1.594E-09	1.335E-09
NNW	5.320E-08	2.815E-08	1.749E-08	9.239E-09	5.729E-09	3.938E-09	2.912E-09	2.259E-09	1.832E-09	1.516E-09	1.273E-09
N	2.127E-08	1.302E-08	1.034E-08	7.927E-09	6.536E-09	5.227E-09	3.988E-09	3.157E-09	2.568E-09	2.139E-09	1.815E-09
NNE	3.203E-08	3.702E-08	2.300E-08	1.226E-08	7.769E-09	5.440E-09	4.058E-09	3.162E-09	2.545E-09	2.098E-09	1.764E-09
NE	1.423E-08	3.167E-08	2.015E-08	1.111E-08	7.199E-09	5.130E-09	3.953E-09	3.170E-09	2.617E-09	2.190E-09	1.865E-09
ENE	8.607E-09	1.768E-08	1.157E-08	6.520E-09	4.194E-09	2.962E-09	2.378E-09	1.950E-09	1.579E-09	1.309E-09	1.105E-09
E	1.017E-08	1.308E-08	8.312E-09	4.519E-09	2.854E-09	1.989E-09	1.476E-09	1.144E-09	9.419E-10	7.893E-10	6.624E-10
ESE	1.610E-08	1.842E-08	1.194E-08	6.663E-09	4.289E-09	3.030E-09	2.273E-09	1.777E-09	1.432E-09	1.181E-09	9.928E-10
SE	1.867E-08	1.127E-08	8.655E-09	6.282E-09	4.654E-09	3.729E-09	3.138E-09	2.714E-09	2.237E-09	1.885E-09	1.616E-09
SSE	3.036E-08	3.109E-08	1.923E-08	1.021E-08	6.466E-09	4.526E-09	3.375E-09	2.630E-09	2.116E-09	1.744E-09	1.466E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.120E-07	1.354E-07	9.629E-08	6.941E-08	6.391E-08	3.361E-08	1.158E-08	5.099E-09	2.923E-09	1.929E-09
SSW	4.933E-08	7.976E-08	6.785E-08	5.888E-08	4.401E-08	2.258E-08	7.796E-09	3.408E-09	1.950E-09	1.277E-09
SW	4.918E-08	1.051E-07	6.489E-08	3.744E-08	2.503E-08	1.269E-08	4.344E-09	1.848E-09	1.054E-09	6.888E-10
WSW	4.650E-08	1.122E-07	6.672E-08	3.720E-08	2.438E-08	1.220E-08	4.516E-09	2.006E-09	1.161E-09	7.697E-10
W	1.213E-07	1.251E-07	6.136E-08	3.350E-08	2.147E-08	9.731E-09	3.471E-09	1.555E-09	8.906E-10	5.851E-10
WNW	2.182E-07	3.067E-07	1.575E-07	8.689E-08	5.492E-08	2.408E-08	7.894E-09	3.345E-09	1.899E-09	1.240E-09
NW	1.489E-07	3.567E-07	1.995E-07	1.083E-07	6.854E-08	3.036E-08	1.005E-08	4.266E-09	2.436E-09	1.601E-09
NNW	5.988E-08	1.472E-07	1.362E-07	9.730E-08	6.413E-08	2.898E-08	9.513E-09	4.005E-09	2.283E-09	1.520E-09
N	2.858E-08	5.055E-08	4.443E-08	3.246E-08	2.422E-08	1.366E-08	7.845E-09	5.081E-09	3.170E-09	2.146E-09
NNE	6.016E-08	6.962E-08	5.548E-08	4.019E-08	3.213E-08	2.968E-08	1.265E-08	5.508E-09	3.183E-09	2.107E-09
NE	2.209E-08	2.524E-08	2.057E-08	1.561E-08	1.341E-08	2.267E-08	1.138E-08	5.211E-09	3.183E-09	2.196E-09
ENE	6.963E-09	1.496E-08	1.351E-08	1.021E-08	8.457E-09	1.295E-08	6.609E-09	3.057E-09	1.931E-09	1.313E-09
E	1.167E-08	1.988E-08	1.733E-08	1.282E-08	1.029E-08	1.031E-08	4.622E-09	2.015E-09	1.162E-09	7.876E-10
ESE	2.744E-08	3.945E-08	3.120E-08	2.204E-08	1.691E-08	1.502E-08	6.780E-09	3.063E-09	1.787E-09	1.186E-09
SE	3.663E-08	5.228E-08	4.091E-08	2.895E-08	2.136E-08	1.175E-08	6.085E-09	3.739E-09	2.653E-09	1.890E-09
SSE	7.322E-08	8.152E-08	5.967E-08	4.103E-08	3.139E-08	2.566E-08	1.055E-08	4.583E-09	2.647E-09	1.751E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	5.382E-09	5.482E-09	6.295E-09	5.286E-09	2.966E-09	1.921E-09	1.335E-09	9.726E-10	7.336E-10	5.876E-10	5.436E-10
SSW	9.704E-10	1.590E-09	2.536E-09	2.432E-09	1.466E-09	9.724E-10	6.834E-10	5.007E-10	4.756E-10	3.596E-10	2.814E-10
SW	3.277E-10	5.552E-10	8.991E-10	8.664E-10	9.863E-10	5.402E-10	3.361E-10	2.287E-10	1.656E-10	1.253E-10	9.810E-11
WSW	4.283E-11	2.569E-10	5.471E-10	1.013E-09	7.013E-10	3.816E-10	2.361E-10	1.601E-10	1.156E-10	8.739E-11	6.837E-11
W	4.692E-11	2.383E-09	2.332E-09	1.613E-09	8.219E-10	4.364E-10	2.660E-10	1.783E-10	1.275E-10	9.552E-11	7.425E-11
WNW	1.476E-09	1.800E-09	6.693E-09	4.914E-09	3.100E-09	1.565E-09	9.258E-10	6.074E-10	4.407E-10	3.279E-10	2.557E-10
NW	3.898E-10	9.278E-10	1.692E-09	4.120E-09	2.792E-09	1.395E-09	8.244E-10	5.469E-10	3.941E-10	3.031E-10	2.460E-10
NNW	6.375E-10	1.003E-09	1.570E-09	1.496E-09	1.684E-09	9.233E-10	5.888E-10	4.792E-10	3.491E-10	2.714E-10	2.230E-10
N	9.032E-10	1.186E-09	1.677E-09	1.542E-09	9.102E-10	5.996E-10	4.201E-10	3.073E-10	2.323E-10	1.801E-10	1.426E-10
NNE	4.643E-09	3.871E-09	3.430E-09	2.449E-09	1.230E-09	7.638E-10	5.198E-10	3.746E-10	2.811E-10	2.173E-10	1.721E-10
NE	2.173E-09	1.753E-09	1.467E-09	1.001E-09	4.836E-10	2.957E-10	1.996E-10	1.432E-10	1.072E-10	8.282E-11	6.557E-11
ENE	2.344E-11	1.406E-10	2.994E-10	3.102E-10	1.937E-10	1.299E-10	9.176E-11	6.740E-11	5.105E-11	3.962E-11	3.138E-11
E	5.686E-10	5.897E-10	6.894E-10	5.842E-10	3.295E-10	2.138E-10	1.487E-10	1.084E-10	8.179E-11	6.338E-11	5.019E-11
ESE	1.416E-09	1.444E-09	1.659E-09	1.393E-09	7.819E-10	5.064E-10	3.519E-10	2.564E-10	1.934E-10	1.499E-10	1.187E-10
SE	2.541E-09	2.546E-09	2.874E-09	2.393E-09	1.335E-09	8.634E-10	5.994E-10	4.365E-10	3.292E-10	2.550E-10	2.020E-10
SSE	4.996E-09	4.581E-09	4.659E-09	3.657E-09	1.966E-09	1.254E-09	8.650E-10	6.278E-10	4.726E-10	3.659E-10	2.898E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	4.371E-10	2.309E-10	1.441E-10	7.669E-11	4.761E-11	4.123E-11	2.954E-11	2.217E-11	1.763E-11	1.407E-11	1.148E-11
SSW	2.272E-10	1.229E-10	7.721E-11	4.127E-11	3.071E-11	2.206E-11	1.581E-11	1.187E-11	9.307E-12	7.435E-12	6.068E-12
SW	7.986E-11	5.351E-11	3.596E-11	2.051E-11	1.291E-11	9.642E-12	6.973E-12	5.236E-12	4.071E-12	3.252E-12	2.655E-12
WSW	5.508E-11	3.967E-11	2.720E-11	1.710E-11	1.035E-11	6.939E-12	5.137E-12	3.858E-12	2.999E-12	2.396E-12	1.956E-12
W	5.951E-11	2.645E-11	2.650E-11	1.567E-11	1.069E-11	7.331E-12	5.253E-12	3.944E-12	3.067E-12	2.450E-12	2.000E-12
WNW	2.110E-10	1.049E-10	6.712E-11	3.666E-11	2.638E-11	1.854E-11	1.325E-11	9.955E-12	7.966E-12	6.363E-12	5.194E-12
NW	2.097E-10	1.214E-10	8.484E-11	5.427E-11	3.336E-11	2.228E-11	1.540E-11	1.157E-11	9.173E-12	7.328E-12	5.981E-12
NNW	1.924E-10	1.159E-10	8.255E-11	4.949E-11	3.146E-11	2.088E-11	1.478E-11	1.120E-11	8.602E-12	6.875E-12	5.614E-12
N	1.149E-10	5.449E-11	3.326E-11	1.753E-11	4.222E-11	2.568E-11	1.841E-11	1.383E-11	1.076E-11	8.597E-12	7.021E-12
NNE	1.389E-10	1.697E-10	1.056E-10	5.517E-11	3.374E-11	2.257E-11	1.612E-11	1.205E-11	9.343E-12	7.448E-12	6.069E-12
NE	5.296E-11	1.334E-10	8.324E-11	4.355E-11	2.663E-11	1.781E-11	1.250E-11	9.288E-12	7.224E-12	5.832E-12	4.760E-12
ENE	2.527E-11	5.026E-11	3.929E-11	2.522E-11	1.626E-11	1.073E-11	7.490E-12	4.624E-12	3.588E-12	2.863E-12	2.334E-12
E	4.046E-11	4.569E-11	3.315E-11	2.018E-11	1.290E-11	8.575E-12	6.044E-12	4.449E-12	3.405E-12	2.654E-12	2.159E-12
ESE	9.567E-11	9.196E-11	6.461E-11	3.834E-11	2.438E-11	1.625E-11	1.150E-11	8.509E-12	6.536E-12	5.176E-12	4.196E-12
SE	1.628E-10	7.730E-11	4.726E-11	2.503E-11	1.540E-11	1.069E-11	8.067E-12	1.587E-11	1.222E-11	9.698E-12	7.889E-12
SSE	2.337E-10	2.519E-10	1.542E-10	7.894E-11	4.798E-11	3.214E-11	2.299E-11	1.724E-11	1.339E-11	1.068E-11	8.715E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.666E-09	3.017E-09	1.346E-09	7.463E-10	5.172E-10	2.381E-10	7.874E-11	3.825E-11	2.255E-11	1.417E-11
SSW	2.280E-09	1.461E-09	6.874E-10	4.386E-10	2.845E-10	1.258E-10	4.456E-11	2.186E-11	1.202E-11	7.483E-12
SW	8.082E-10	7.614E-10	3.476E-10	1.683E-10	9.941E-11	5.157E-11	2.057E-11	9.445E-12	5.289E-12	3.273E-12
WSW	6.898E-10	6.286E-10	2.445E-10	1.176E-10	6.908E-11	3.755E-11	1.634E-11	7.127E-12	3.896E-12	2.412E-12
W	2.024E-09	8.264E-10	2.763E-10	1.298E-10	7.509E-11	3.382E-11	1.586E-11	7.394E-12	3.984E-12	2.466E-12
WNW	4.815E-09	2.821E-09	9.690E-10	4.454E-10	2.606E-10	1.117E-10	3.886E-11	1.852E-11	1.014E-11	6.405E-12
NW	2.601E-09	2.466E-09	8.656E-10	4.031E-10	2.495E-10	1.248E-10	5.177E-11	2.248E-11	1.175E-11	7.376E-12
NNW	1.411E-09	1.304E-09	6.342E-10	3.567E-10	2.260E-10	1.181E-10	4.882E-11	2.126E-11	1.123E-11	6.920E-12
N	1.508E-09	9.126E-10	4.229E-10	2.339E-10	1.435E-10	5.849E-11	3.200E-11	2.718E-11	1.397E-11	8.653E-12
NNE	3.092E-09	1.294E-09	5.268E-10	2.835E-10	1.732E-10	1.344E-10	5.685E-11	2.297E-11	1.218E-11	7.499E-12
NE	1.323E-09	5.150E-10	2.027E-10	1.082E-10	6.601E-11	9.324E-11	4.485E-11	1.804E-11	9.419E-12	5.847E-12
ENE	2.689E-10	1.912E-10	9.219E-11	5.137E-11	3.156E-11	3.983E-11	2.437E-11	1.091E-11	5.048E-12	2.882E-12
E	6.205E-10	3.347E-10	1.500E-10	8.238E-11	5.049E-11	3.895E-11	1.983E-11	8.716E-12	4.507E-12	2.693E-12
ESE	1.493E-09	7.953E-10	3.549E-10	1.948E-10	1.194E-10	8.063E-11	3.797E-11	1.652E-11	8.613E-12	5.216E-12
SE	2.587E-09	1.361E-09	6.046E-10	3.316E-10	2.032E-10	8.295E-11	2.569E-11	1.090E-11	1.225E-11	9.775E-12
SSE	4.196E-09	2.025E-09	8.739E-10	4.763E-10	2.916E-10	2.044E-10	8.190E-11	3.270E-11	1.742E-11	1.076E-11

ERP ELEVATED STACK RELEASES - JAN-MAR 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	1.2E-07	1.2E-07	1.2E-07	6.2E-09
A	Site Boundary	SSW	.82	5.3E-08	5.3E-08	5.3E-08	2.6E-09
A	Site Boundary	SW	.97	8.0E-08	8.0E-08	8.0E-08	8.9E-10
A	Site Boundary	WSW	.93	6.7E-08	6.7E-08	6.7E-08	9.3E-10
A	Site Boundary	W	.91	1.6E-07	1.6E-07	1.6E-07	1.8E-09
A	Site Boundary	WNW	.94	3.1E-07	3.1E-07	3.1E-07	5.5E-09
A	Site Boundary	NW	.81	1.3E-07	1.3E-07	1.3E-07	1.8E-09
A	Site Boundary	NNW	.69	2.9E-08	2.9E-08	2.9E-08	1.4E-09
A	Site Boundary	N	.67	1.8E-08	1.8E-08	1.8E-08	1.5E-09
A	Site Boundary	NNE	.60	4.9E-08	4.9E-08	4.8E-08	3.6E-09
A	Site Boundary	NE	.62	1.9E-08	1.9E-08	1.8E-08	1.6E-09
A	Site Boundary	ENE	.59	1.2E-09	1.2E-09	1.2E-09	1.9E-10
A	Site Boundary	E	.53	4.8E-09	4.8E-09	4.7E-09	6.0E-10
A	Site Boundary	ESE	.54	1.1E-08	1.1E-08	1.1E-08	1.5E-09
A	Site Boundary	SE	.65	2.4E-08	2.4E-08	2.4E-08	2.7E-09
A	Site Boundary	SSE	.81	8.0E-08	8.0E-08	7.9E-08	4.4E-09
A	Nearest Res	SW	1.30	1.3E-07	1.3E-07	1.3E-07	1.3E-09
A	Nearest Res	WSW	1.30	1.4E-07	1.4E-07	1.4E-07	9.3E-10
A	Nearest Res	W	1.00	1.7E-07	1.7E-07	1.6E-07	1.6E-09
A	Nearest Res	WNW	1.70	3.2E-07	3.2E-07	3.1E-07	2.3E-09
A	Nearest Res	NW	.90	1.9E-07	1.9E-07	1.9E-07	4.4E-09
A	Nearest Res	NNW	1.90	1.6E-07	1.6E-07	1.6E-07	1.0E-09
A	Nearest Res	N	3.00	4.0E-08	3.9E-08	3.8E-08	3.1E-10
A	Nearest Res	ENE	1.70	1.7E-08	1.7E-08	1.6E-08	1.6E-10
A	Nearest Res	E	1.90	2.1E-08	2.1E-08	2.1E-08	2.3E-10
A	Nearest Res	ESE	2.30	3.5E-08	3.5E-08	3.4E-08	4.0E-10
A	Nearest Res	SE	3.20	3.3E-08	3.3E-08	3.2E-08	3.9E-10
A	Nearest Cow	NNW	3.50	1.0E-07	1.0E-07	1.0E-07	3.5E-10
A	Nearest Garde	SW	2.20	8.1E-08	8.0E-08	7.9E-08	4.4E-10
A	Nearest Garde	WSW	1.90	1.1E-07	1.1E-07	1.0E-07	4.3E-10
A	Nearest Garde	WNW	2.40	1.7E-07	1.7E-07	1.6E-07	1.0E-09
A	Nearest Garde	ESE	3.00	2.7E-08	2.7E-08	2.6E-08	2.6E-10
A	Nearest Garde	SE	3.50	3.0E-08	3.0E-08	2.9E-08	3.3E-10
A	MAXIMUM CHI/Q	S	1.50	1.5E-07	1.5E-07	1.5E-07	3.0E-09
A	MAXIMUM CHI/Q	SSW	1.50	8.9E-08	8.9E-08	8.8E-08	1.5E-09
A	MAXIMUM CHI/Q	SW	1.50	1.4E-07	1.4E-07	1.4E-07	9.9E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.5E-07	1.5E-07	1.5E-07	7.0E-10
A	MAXIMUM CHI/Q	W	1.00	1.7E-07	1.7E-07	1.6E-07	1.6E-09
A	MAXIMUM CHI/Q	WNW	1.50	4.0E-07	3.9E-07	3.9E-07	3.1E-09
A	MAXIMUM CHI/Q	NW	1.50	5.1E-07	5.0E-07	5.0E-07	2.8E-09
A	MAXIMUM CHI/Q	NNW	1.50	1.7E-07	1.6E-07	1.6E-07	1.7E-09
A	MAXIMUM CHI/Q	N	1.50	5.5E-08	5.5E-08	5.4E-08	9.1E-10
A	MAXIMUM CHI/Q	NNE	1.50	7.5E-08	7.5E-08	7.4E-08	1.2E-09
A	MAXIMUM CHI/Q	NE	7.50	3.3E-08	3.2E-08	3.2E-08	1.3E-10
A	MAXIMUM CHI/Q	ENE	7.50	1.8E-08	1.8E-08	1.8E-08	5.0E-11
A	MAXIMUM CHI/Q	E	1.50	2.2E-08	2.2E-08	2.2E-08	3.3E-10
A	MAXIMUM CHI/Q	ESE	1.50	4.3E-08	4.3E-08	4.3E-08	7.8E-10
A	MAXIMUM CHI/Q	SE	1.50	5.7E-08	5.7E-08	5.7E-08	1.3E-09
A	MAXIMUM CHI/Q	SSE	1.50	8.9E-08	8.9E-08	8.8E-08	2.0E-09

Atmospheric Diffusion Estimates

Elevated Releases

April-June 2005

ERP ELEVATED STACK RELEASES - APR-JUN 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.645E-10	1.110E-08	2.550E-08	3.069E-08	3.111E-08	2.673E-08	2.219E-08	1.846E-08	1.555E-08	1.812E-08	2.010E-08
SSW	2.736E-10	1.604E-08	2.919E-08	2.973E-08	2.655E-08	2.176E-08	1.761E-08	1.822E-08	1.812E-08	1.565E-08	1.376E-08
SW	3.147E-16	3.771E-10	1.498E-08	3.897E-08	6.079E-08	4.055E-08	2.895E-08	2.184E-08	1.717E-08	1.395E-08	1.162E-08
WSW	3.663E-16	4.451E-10	2.215E-08	6.217E-08	1.014E-07	6.323E-08	4.342E-08	3.192E-08	2.464E-08	1.974E-08	1.627E-08
W	2.882E-13	2.642E-08	1.238E-07	1.527E-07	1.332E-07	8.188E-08	5.575E-08	4.075E-08	3.133E-08	2.502E-08	2.057E-08
WNW	3.274E-09	6.169E-08	1.975E-07	2.723E-07	2.703E-07	1.586E-07	1.048E-07	7.739E-08	5.991E-08	4.688E-08	3.789E-08
NW	1.701E-08	8.593E-08	1.873E-07	2.934E-07	3.944E-07	2.273E-07	1.487E-07	1.076E-07	8.205E-08	6.424E-08	5.197E-08
NNW	1.172E-07	1.922E-07	2.056E-07	1.945E-07	2.028E-07	1.812E-07	1.579E-07	1.340E-07	1.137E-07	8.883E-08	7.175E-08
N	2.206E-07	2.476E-07	2.287E-07	1.773E-07	1.297E-07	1.017E-07	8.147E-08	6.556E-08	5.401E-08	4.541E-08	3.884E-08
NNE	8.775E-09	6.977E-08	9.903E-08	8.736E-08	6.911E-08	5.533E-08	4.497E-08	3.726E-08	3.146E-08	2.702E-08	2.357E-08
NE	3.495E-11	2.875E-09	1.212E-08	2.006E-08	2.509E-08	2.313E-08	1.990E-08	1.693E-08	1.448E-08	1.251E-08	1.095E-08
ENE	5.458E-16	4.233E-10	6.614E-09	1.274E-08	1.629E-08	1.489E-08	1.269E-08	1.071E-08	9.094E-09	7.805E-09	6.779E-09
E	5.475E-11	3.585E-09	1.421E-08	2.188E-08	2.468E-08	2.135E-08	1.759E-08	1.450E-08	1.212E-08	1.028E-08	8.855E-09
ESE	3.614E-10	2.224E-08	4.433E-08	4.734E-08	4.230E-08	3.405E-08	2.716E-08	2.199E-08	1.817E-08	1.530E-08	1.310E-08
SE	3.524E-10	2.062E-08	4.700E-08	5.657E-08	5.607E-08	4.711E-08	3.848E-08	3.164E-08	2.640E-08	2.238E-08	1.926E-08
SSE	5.546E-09	3.195E-08	5.361E-08	6.122E-08	6.091E-08	5.196E-08	4.296E-08	3.566E-08	2.998E-08	2.559E-08	2.215E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.809E-08	1.330E-08	8.766E-09	5.131E-09	3.733E-09	2.897E-09	2.273E-09	1.854E-09	1.575E-09	1.361E-09	1.185E-09
SSW	1.267E-08	1.010E-08	6.573E-09	3.786E-09	2.733E-09	2.061E-09	1.611E-09	1.309E-09	1.095E-09	9.360E-10	8.138E-10
SW	1.059E-08	7.789E-09	5.100E-09	2.954E-09	2.100E-09	1.602E-09	1.280E-09	1.038E-09	8.667E-10	7.396E-10	6.421E-10
WSW	1.427E-08	9.008E-09	6.284E-09	3.800E-09	2.548E-09	1.873E-09	1.459E-09	1.182E-09	9.856E-10	8.403E-10	7.288E-10
W	1.731E-08	9.347E-09	6.623E-09	4.305E-09	3.210E-09	2.380E-09	1.855E-09	1.503E-09	1.254E-09	1.070E-09	9.285E-10
WNW	3.164E-08	1.660E-08	1.078E-08	6.150E-09	4.100E-09	2.996E-09	2.323E-09	1.871E-09	1.551E-09	1.314E-09	1.134E-09
NW	4.347E-08	2.302E-08	1.512E-08	8.727E-09	5.826E-09	4.268E-09	3.334E-09	2.696E-09	2.242E-09	1.907E-09	1.651E-09
NNW	6.033E-08	3.244E-08	2.085E-08	1.183E-08	7.963E-09	5.869E-09	4.599E-09	3.743E-09	3.144E-09	2.685E-09	2.329E-09
N	3.382E-08	2.026E-08	1.550E-08	1.065E-08	7.816E-09	5.939E-09	4.612E-09	3.723E-09	3.094E-09	2.630E-09	2.275E-09
NNE	2.593E-08	3.259E-08	2.099E-08	1.195E-08	8.067E-09	5.960E-09	4.660E-09	3.788E-09	3.167E-09	2.706E-09	2.352E-09
NE	1.188E-08	2.349E-08	1.549E-08	9.104E-09	6.268E-09	4.703E-09	3.791E-09	3.153E-09	2.696E-09	2.319E-09	2.028E-09
ENE	6.947E-09	1.028E-08	6.937E-09	4.183E-09	2.923E-09	2.216E-09	1.911E-09	1.660E-09	1.401E-09	1.206E-09	1.056E-09
E	8.984E-09	1.122E-08	7.390E-09	4.319E-09	2.958E-09	2.208E-09	1.741E-09	1.425E-09	1.243E-09	1.095E-09	9.545E-10
ESE	1.298E-08	1.308E-08	8.542E-09	4.935E-09	3.357E-09	2.492E-09	1.955E-09	1.594E-09	1.336E-09	1.143E-09	9.950E-10
SE	1.679E-08	1.005E-08	7.559E-09	5.235E-09	3.793E-09	2.973E-09	2.451E-09	2.091E-09	1.753E-09	1.501E-09	1.306E-09
SSE	2.339E-08	3.118E-08	2.026E-08	1.167E-08	7.927E-09	5.886E-09	4.622E-09	3.772E-09	3.165E-09	2.713E-09	2.364E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.461E-08	2.907E-08	2.191E-08	1.736E-08	1.877E-08	1.235E-08	5.317E-09	2.870E-09	1.867E-09	1.359E-09
SSW	2.651E-08	2.513E-08	1.896E-08	1.720E-08	1.392E-08	9.105E-09	3.937E-09	2.060E-09	1.314E-09	9.379E-10
SW	2.240E-08	4.695E-08	2.920E-08	1.728E-08	1.193E-08	7.215E-09	3.051E-09	1.606E-09	1.042E-09	7.411E-10
WSW	3.511E-08	7.573E-08	4.410E-08	2.485E-08	1.656E-08	8.966E-09	3.795E-09	1.887E-09	1.186E-09	8.420E-10
W	1.150E-07	1.147E-07	5.672E-08	3.162E-08	2.068E-08	9.905E-09	4.333E-09	2.391E-09	1.509E-09	1.072E-09
WNW	2.006E-07	2.211E-07	1.082E-07	5.994E-08	3.824E-08	1.735E-08	6.268E-09	3.021E-09	1.878E-09	1.317E-09
NW	2.119E-07	2.977E-07	1.532E-07	8.255E-08	5.246E-08	2.405E-08	8.858E-09	4.310E-09	2.705E-09	1.911E-09
NNW	1.977E-07	1.913E-07	1.545E-07	1.100E-07	7.258E-08	3.349E-08	1.212E-08	5.919E-09	3.759E-09	2.689E-09
N	2.101E-07	1.278E-07	8.051E-08	5.403E-08	3.893E-08	2.116E-08	1.047E-08	5.908E-09	3.737E-09	2.636E-09
NNE	8.734E-08	6.704E-08	4.465E-08	3.143E-08	2.547E-08	2.596E-08	1.223E-08	6.002E-09	3.800E-09	2.712E-09
NE	1.359E-08	2.310E-08	1.957E-08	1.443E-08	1.176E-08	1.736E-08	9.264E-09	4.756E-09	3.161E-09	2.323E-09
ENE	7.959E-09	1.488E-08	1.249E-08	9.065E-09	7.145E-09	8.055E-09	4.235E-09	2.282E-09	1.633E-09	1.208E-09
E	1.526E-08	2.258E-08	1.736E-08	1.210E-08	9.325E-09	9.022E-09	4.397E-09	2.221E-09	1.446E-09	1.087E-09
ESE	4.076E-08	3.975E-08	2.693E-08	1.817E-08	1.371E-08	1.104E-08	5.035E-09	2.508E-09	1.599E-09	1.145E-09
SE	4.539E-08	5.220E-08	3.805E-08	2.637E-08	1.927E-08	1.044E-08	5.110E-09	2.983E-09	2.065E-09	1.503E-09
SSE	5.218E-08	5.700E-08	4.244E-08	2.993E-08	2.363E-08	2.460E-08	1.191E-08	5.925E-09	3.784E-09	2.717E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.645E-10	1.110E-08	2.547E-08	3.065E-08	3.105E-08	2.665E-08	2.211E-08	1.838E-08	1.547E-08	1.801E-08	1.997E-08
SSW	2.735E-10	1.603E-08	2.917E-08	2.969E-08	2.648E-08	2.167E-08	1.752E-08	1.811E-08	1.799E-08	1.553E-08	1.364E-08
SW	3.146E-16	3.769E-10	1.496E-08	3.891E-08	6.064E-08	4.041E-08	2.883E-08	2.173E-08	1.707E-08	1.385E-08	1.154E-08
WSW	3.662E-16	4.447E-10	2.212E-08	6.207E-08	1.012E-07	6.304E-08	4.325E-08	3.177E-08	2.451E-08	1.962E-08	1.616E-08
W	2.882E-13	2.640E-08	1.237E-07	1.524E-07	1.328E-07	8.157E-08	5.549E-08	4.051E-08	3.112E-08	2.483E-08	2.039E-08
WNW	3.273E-09	6.165E-08	1.973E-07	2.719E-07	2.697E-07	1.581E-07	1.044E-07	7.704E-08	5.960E-08	4.660E-08	3.763E-08
NW	1.701E-08	8.589E-08	1.872E-07	2.931E-07	3.938E-07	2.268E-07	1.483E-07	1.072E-07	8.174E-08	6.396E-08	5.171E-08
NNW	1.172E-07	1.921E-07	2.055E-07	1.943E-07	2.024E-07	1.807E-07	1.575E-07	1.335E-07	1.133E-07	8.842E-08	7.138E-08
N	2.206E-07	2.475E-07	2.286E-07	1.772E-07	1.295E-07	1.015E-07	8.127E-08	6.536E-08	5.382E-08	4.522E-08	3.866E-08
NNE	8.773E-09	6.973E-08	9.894E-08	8.725E-08	6.897E-08	5.517E-08	4.481E-08	3.709E-08	3.130E-08	2.686E-08	2.341E-08
NE	3.494E-11	2.873E-09	1.210E-08	2.002E-08	2.501E-08	2.303E-08	1.979E-08	1.681E-08	1.437E-08	1.240E-08	1.084E-08
ENE	5.457E-16	4.231E-10	6.608E-09	1.272E-08	1.626E-08	1.485E-08	1.265E-08	1.067E-08	9.051E-09	7.762E-09	6.738E-09
E	5.474E-11	3.583E-09	1.420E-08	2.186E-08	2.464E-08	2.130E-08	1.754E-08	1.445E-08	1.207E-08	1.023E-08	8.809E-09
ESE	3.613E-10	2.223E-08	4.429E-08	4.728E-08	4.223E-08	3.397E-08	2.708E-08	2.191E-08	1.809E-08	1.522E-08	1.303E-08
SE	3.524E-10	2.061E-08	4.697E-08	5.651E-08	5.597E-08	4.700E-08	3.836E-08	3.151E-08	2.628E-08	2.226E-08	1.914E-08
SSE	5.545E-09	3.194E-08	5.358E-08	6.115E-08	6.080E-08	5.183E-08	4.282E-08	3.551E-08	2.984E-08	2.544E-08	2.201E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.795E-08	1.311E-08	8.598E-09	4.978E-09	3.577E-09	2.741E-09	2.126E-09	1.714E-09	1.439E-09	1.228E-09	1.057E-09
SSW	1.255E-08	9.961E-09	6.450E-09	3.682E-09	2.634E-09	1.968E-09	1.524E-09	1.228E-09	1.018E-09	8.626E-10	7.435E-10
SW	1.050E-08	7.689E-09	5.013E-09	2.878E-09	2.029E-09	1.534E-09	1.215E-09	9.770E-10	8.086E-10	6.840E-10	5.887E-10
WSW	1.416E-08	8.902E-09	6.184E-09	3.708E-09	2.466E-09	1.798E-09	1.389E-09	1.116E-09	9.235E-10	7.809E-10	6.719E-10
W	1.714E-08	9.202E-09	6.477E-09	4.147E-09	3.039E-09	2.221E-09	1.706E-09	1.363E-09	1.121E-09	9.429E-10	8.067E-10
WNW	3.139E-08	1.640E-08	1.062E-08	6.009E-09	3.975E-09	2.883E-09	2.217E-09	1.772E-09	1.458E-09	1.226E-09	1.049E-09
NW	4.323E-08	2.283E-08	1.495E-08	8.585E-09	5.700E-09	4.153E-09	3.226E-09	2.595E-09	2.147E-09	1.816E-09	1.564E-09
NNW	5.998E-08	3.216E-08	2.061E-08	1.163E-08	7.783E-09	5.705E-09	4.445E-09	3.598E-09	3.005E-09	2.552E-09	2.202E-09
N	3.365E-08	2.010E-08	1.534E-08	1.048E-08	7.652E-09	5.783E-09	4.468E-09	3.588E-09	2.966E-09	2.508E-09	2.158E-09
NNE	2.573E-08	3.217E-08	2.063E-08	1.164E-08	7.791E-09	5.705E-09	4.422E-09	3.563E-09	2.954E-09	2.502E-09	2.155E-09
NE	1.175E-08	2.303E-08	1.509E-08	8.749E-09	5.943E-09	4.399E-09	3.498E-09	2.869E-09	2.419E-09	2.053E-09	1.771E-09
ENE	6.899E-09	1.008E-08	6.745E-09	4.003E-09	2.752E-09	2.052E-09	1.735E-09	1.479E-09	1.227E-09	1.039E-09	8.938E-10
E	8.931E-09	1.110E-08	7.285E-09	4.226E-09	2.872E-09	2.128E-09	1.665E-09	1.352E-09	1.170E-09	1.023E-09	8.843E-10
ESE	1.291E-08	1.297E-08	8.442E-09	4.848E-09	3.278E-09	2.419E-09	1.886E-09	1.528E-09	1.272E-09	1.082E-09	9.363E-10
SE	1.668E-08	9.943E-09	7.450E-09	5.116E-09	3.672E-09	2.849E-09	2.323E-09	1.958E-09	1.625E-09	1.377E-09	1.186E-09
SSE	2.323E-08	3.065E-08	1.979E-08	1.126E-08	7.551E-09	5.536E-09	4.292E-09	3.457E-09	2.863E-09	2.423E-09	2.084E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.458E-08	2.901E-08	2.183E-08	1.727E-08	1.864E-08	1.218E-08	5.160E-09	2.718E-09	1.727E-09	1.227E-09
SSW	2.648E-08	2.506E-08	1.886E-08	1.708E-08	1.380E-08	8.976E-09	3.831E-09	1.968E-09	1.233E-09	8.646E-10
SW	2.236E-08	4.682E-08	2.908E-08	1.718E-08	1.184E-08	7.123E-09	2.975E-09	1.539E-09	9.808E-10	6.856E-10
WSW	3.506E-08	7.554E-08	4.394E-08	2.472E-08	1.644E-08	8.862E-09	3.706E-09	1.813E-09	1.121E-09	7.828E-10
W	1.148E-07	1.144E-07	5.646E-08	3.141E-08	2.050E-08	9.754E-09	4.172E-09	2.233E-09	1.369E-09	9.454E-10
WNW	2.003E-07	2.206E-07	1.078E-07	5.963E-08	3.798E-08	1.716E-08	6.129E-09	2.908E-09	1.780E-09	1.229E-09
NW	2.117E-07	2.972E-07	1.528E-07	8.224E-08	5.220E-08	2.386E-08	8.718E-09	4.195E-09	2.605E-09	1.821E-09
NNW	1.975E-07	1.910E-07	1.541E-07	1.096E-07	7.221E-08	3.321E-08	1.192E-08	5.755E-09	3.614E-09	2.556E-09
N	2.099E-07	1.277E-07	8.031E-08	5.384E-08	3.875E-08	2.099E-08	1.030E-08	5.755E-09	3.603E-09	2.514E-09
NNE	8.725E-08	6.690E-08	4.449E-08	3.126E-08	2.529E-08	2.561E-08	1.193E-08	5.748E-09	3.576E-09	2.507E-09
NE	1.357E-08	2.302E-08	1.947E-08	1.432E-08	1.164E-08	1.699E-08	8.911E-09	4.450E-09	2.877E-09	2.057E-09
ENE	7.950E-09	1.485E-08	1.244E-08	9.022E-09	7.101E-09	7.890E-09	4.056E-09	2.112E-09	1.456E-09	1.041E-09
E	1.525E-08	2.254E-08	1.731E-08	1.205E-08	9.276E-09	8.924E-09	4.304E-09	2.141E-09	1.372E-09	1.015E-09
ESE	4.072E-08	3.968E-08	2.685E-08	1.809E-08	1.364E-08	1.094E-08	4.949E-09	2.435E-09	1.533E-09	1.085E-09
SE	4.535E-08	5.210E-08	3.793E-08	2.624E-08	1.915E-08	1.033E-08	4.993E-09	2.858E-09	1.935E-09	1.380E-09
SSE	5.214E-08	5.689E-08	4.230E-08	2.978E-08	2.348E-08	2.418E-08	1.151E-08	5.575E-09	3.469E-09	2.428E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.645E-10	1.101E-08	2.513E-08	3.031E-08	3.061E-08	2.613E-08	2.156E-08	1.783E-08	1.493E-08	1.741E-08	1.934E-08
SSW	2.736E-10	1.590E-08	2.866E-08	2.918E-08	2.597E-08	2.116E-08	1.700E-08	1.752E-08	1.737E-08	1.494E-08	1.309E-08
SW	3.147E-16	3.771E-10	1.498E-08	3.895E-08	6.004E-08	3.963E-08	2.807E-08	2.103E-08	1.645E-08	1.329E-08	1.103E-08
WSW	3.663E-16	4.450E-10	2.214E-08	6.208E-08	1.001E-07	6.187E-08	4.218E-08	3.083E-08	2.368E-08	1.889E-08	1.551E-08
W	2.882E-13	2.641E-08	1.231E-07	1.508E-07	1.302E-07	7.935E-08	5.364E-08	3.897E-08	2.981E-08	2.370E-08	1.940E-08
WNW	3.274E-09	6.120E-08	1.957E-07	2.685E-07	2.639E-07	1.530E-07	1.001E-07	7.345E-08	5.652E-08	4.392E-08	3.525E-08
NW	1.701E-08	8.516E-08	1.847E-07	2.898E-07	3.877E-07	2.213E-07	1.437E-07	1.034E-07	7.850E-08	6.112E-08	4.915E-08
NNW	1.172E-07	1.904E-07	2.016E-07	1.909E-07	1.992E-07	1.773E-07	1.543E-07	1.306E-07	1.107E-07	8.603E-08	6.911E-08
N	2.206E-07	2.453E-07	2.240E-07	1.732E-07	1.263E-07	9.874E-08	7.869E-08	6.300E-08	5.166E-08	4.324E-08	3.683E-08
NNE	8.774E-09	6.914E-08	9.702E-08	8.537E-08	6.737E-08	5.374E-08	4.350E-08	3.590E-08	3.020E-08	2.586E-08	2.249E-08
NE	3.495E-11	2.853E-09	1.203E-08	1.996E-08	2.480E-08	2.269E-08	1.938E-08	1.637E-08	1.393E-08	1.197E-08	1.042E-08
ENE	5.458E-16	4.233E-10	6.613E-09	1.273E-08	1.614E-08	1.464E-08	1.239E-08	1.039E-08	8.769E-09	7.487E-09	6.473E-09
E	5.475E-11	3.558E-09	1.411E-08	2.178E-08	2.440E-08	2.092E-08	1.710E-08	1.400E-08	1.162E-08	9.796E-09	8.391E-09
ESE	3.614E-10	2.205E-08	4.358E-08	4.657E-08	4.146E-08	3.315E-08	2.626E-08	2.112E-08	1.734E-08	1.451E-08	1.236E-08
SE	3.524E-10	2.044E-08	4.634E-08	5.589E-08	5.516E-08	4.603E-08	3.734E-08	3.049E-08	2.529E-08	2.132E-08	1.825E-08
SSE	5.546E-09	3.168E-08	5.282E-08	6.047E-08	5.995E-08	5.081E-08	4.173E-08	3.442E-08	2.878E-08	2.443E-08	2.105E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.737E-08	1.257E-08	8.015E-09	4.383E-09	2.952E-09	2.150E-09	1.608E-09	1.255E-09	1.026E-09	8.589E-10	7.262E-10
SSW	1.203E-08	9.480E-09	5.969E-09	3.220E-09	2.175E-09	1.575E-09	1.187E-09	9.339E-10	7.579E-10	6.297E-10	5.332E-10
SW	1.003E-08	7.291E-09	4.622E-09	2.506E-09	1.656E-09	1.188E-09	9.129E-10	7.156E-10	5.790E-10	4.798E-10	4.052E-10
WSW	1.357E-08	8.371E-09	5.663E-09	3.238E-09	2.074E-09	1.466E-09	1.103E-09	8.658E-10	7.017E-10	5.824E-10	4.927E-10
W	1.626E-08	8.651E-09	6.038E-09	3.714E-09	2.611E-09	1.861E-09	1.398E-09	1.097E-09	8.882E-10	7.364E-10	6.223E-10
WNW	2.924E-08	1.484E-08	9.341E-09	5.007E-09	3.123E-09	2.170E-09	1.618E-09	1.259E-09	1.011E-09	8.316E-10	6.977E-10
NW	4.087E-08	2.096E-08	1.333E-08	7.254E-09	4.617E-09	3.248E-09	2.449E-09	1.918E-09	1.550E-09	1.283E-09	1.083E-09
NNW	5.779E-08	3.010E-08	1.869E-08	9.887E-09	6.149E-09	4.239E-09	3.143E-09	2.458E-09	1.998E-09	1.655E-09	1.396E-09
N	3.195E-08	1.884E-08	1.431E-08	9.729E-09	6.933E-09	5.035E-09	3.788E-09	2.972E-09	2.406E-09	1.995E-09	1.687E-09
NNE	2.482E-08	3.124E-08	1.943E-08	1.038E-08	6.587E-09	4.618E-09	3.448E-09	2.689E-09	2.166E-09	1.787E-09	1.503E-09
NE	1.132E-08	2.261E-08	1.440E-08	7.933E-09	5.125E-09	3.643E-09	2.805E-09	2.253E-09	1.865E-09	1.559E-09	1.326E-09
ENE	6.625E-09	9.870E-09	6.435E-09	3.614E-09	2.327E-09	1.645E-09	1.331E-09	1.095E-09	8.845E-10	7.312E-10	6.158E-10
E	8.498E-09	1.068E-08	6.811E-09	3.727E-09	2.369E-09	1.660E-09	1.237E-09	9.628E-10	8.011E-10	6.764E-10	5.696E-10
ESE	1.223E-08	1.235E-08	7.820E-09	4.244E-09	2.692E-09	1.883E-09	1.402E-09	1.090E-09	8.741E-10	7.184E-10	6.019E-10
SE	1.584E-08	9.302E-09	6.927E-09	4.746E-09	3.403E-09	2.648E-09	2.172E-09	1.839E-09	1.507E-09	1.263E-09	1.078E-09
SSE	2.223E-08	2.971E-08	1.863E-08	1.008E-08	6.451E-09	4.552E-09	3.417E-09	2.676E-09	2.163E-09	1.790E-09	1.509E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.429E-08	2.855E-08	2.129E-08	1.670E-08	1.804E-08	1.161E-08	4.554E-09	2.147E-09	1.268E-09	8.591E-10
SSW	2.605E-08	2.454E-08	1.832E-08	1.649E-08	1.325E-08	8.486E-09	3.367E-09	1.580E-09	9.392E-10	6.319E-10
SW	2.239E-08	4.629E-08	2.834E-08	1.656E-08	1.133E-08	6.713E-09	2.598E-09	1.203E-09	7.199E-10	4.816E-10
WSW	3.507E-08	7.467E-08	4.289E-08	2.390E-08	1.579E-08	8.322E-09	3.259E-09	1.483E-09	8.709E-10	5.845E-10
W	1.139E-07	1.122E-07	5.463E-08	3.010E-08	1.951E-08	9.181E-09	3.740E-09	1.876E-09	1.104E-09	7.391E-10
WNW	1.982E-07	2.157E-07	1.036E-07	5.656E-08	3.559E-08	1.560E-08	5.133E-09	2.203E-09	1.267E-09	8.351E-10
NW	2.093E-07	2.920E-07	1.483E-07	7.899E-08	4.963E-08	2.199E-08	7.432E-09	3.294E-09	1.930E-09	1.288E-09
NNW	1.944E-07	1.876E-07	1.509E-07	1.070E-07	6.993E-08	3.118E-08	1.018E-08	4.310E-09	2.479E-09	1.660E-09
N	2.062E-07	1.245E-07	7.776E-08	5.169E-08	3.692E-08	1.974E-08	9.503E-09	5.042E-09	2.989E-09	2.003E-09
NNE	8.565E-08	6.531E-08	4.319E-08	3.018E-08	2.435E-08	2.456E-08	1.071E-08	4.675E-09	2.707E-09	1.794E-09
NE	1.352E-08	2.279E-08	1.906E-08	1.388E-08	1.121E-08	1.645E-08	8.121E-09	3.703E-09	2.263E-09	1.563E-09
ENE	7.956E-09	1.472E-08	1.219E-08	8.743E-09	6.830E-09	7.622E-09	3.669E-09	1.701E-09	1.082E-09	7.339E-10
E	1.517E-08	2.227E-08	1.688E-08	1.160E-08	8.847E-09	8.476E-09	3.809E-09	1.680E-09	9.796E-10	6.738E-10
ESE	4.012E-08	3.890E-08	2.604E-08	1.734E-08	1.295E-08	1.031E-08	4.349E-09	1.907E-09	1.097E-09	7.214E-10
SE	4.483E-08	5.127E-08	3.692E-08	2.526E-08	1.827E-08	9.698E-09	4.633E-09	2.659E-09	1.808E-09	1.267E-09
SSE	5.152E-08	5.600E-08	4.123E-08	2.873E-08	2.249E-08	2.312E-08	1.037E-08	4.604E-09	2.692E-09	1.796E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.376E-09	1.327E-09	1.437E-09	1.170E-09	6.438E-10	4.142E-10	2.869E-10	2.087E-10	1.573E-10	1.321E-10	1.162E-10
SSW	2.398E-09	1.924E-09	1.595E-09	1.079E-09	5.177E-10	3.156E-10	2.127E-10	1.525E-10	1.374E-10	1.039E-10	8.142E-11
SW	3.109E-11	1.865E-10	3.971E-10	4.113E-10	5.111E-10	2.780E-10	1.720E-10	1.166E-10	8.419E-11	6.362E-11	4.977E-11
WSW	3.649E-11	2.189E-10	4.662E-10	1.009E-09	5.979E-10	3.252E-10	2.012E-10	1.364E-10	9.848E-11	7.442E-11	5.822E-11
W	5.406E-11	2.854E-09	2.776E-09	1.860E-09	9.365E-10	4.988E-10	3.046E-10	2.045E-10	1.464E-10	1.098E-10	8.545E-11
WNW	3.785E-09	3.316E-09	7.409E-09	4.823E-09	2.871E-09	1.436E-09	8.470E-10	5.566E-10	3.995E-10	2.993E-10	2.354E-10
NW	8.525E-09	6.824E-09	5.636E-09	6.759E-09	3.915E-09	1.947E-09	1.150E-09	7.603E-10	5.461E-10	4.186E-10	3.380E-10
NNW	1.797E-08	1.363E-08	1.012E-08	6.146E-09	3.938E-09	2.092E-09	1.285E-09	9.949E-10	7.231E-10	5.624E-10	4.611E-10
N	3.011E-08	2.278E-08	1.682E-08	1.015E-08	4.364E-09	2.527E-09	1.655E-09	1.169E-09	8.674E-10	6.677E-10	5.285E-10
NNE	7.166E-09	5.594E-09	4.407E-09	2.843E-09	1.307E-09	7.821E-10	5.217E-10	3.720E-10	2.776E-10	2.141E-10	1.695E-10
NE	3.081E-10	4.633E-10	7.087E-10	6.703E-10	4.013E-10	2.656E-10	1.865E-10	1.366E-10	1.033E-10	8.011E-11	6.344E-11
ENE	3.920E-11	2.352E-10	5.007E-10	5.186E-10	3.239E-10	2.172E-10	1.534E-10	1.127E-10	8.536E-11	6.625E-11	5.247E-11
E	5.878E-10	7.564E-10	1.055E-09	9.650E-10	5.681E-10	3.739E-10	2.618E-10	1.915E-10	1.447E-10	1.122E-10	8.888E-11
ESE	3.490E-09	2.934E-09	2.634E-09	1.900E-09	9.613E-10	5.991E-10	4.083E-10	2.946E-10	2.211E-10	1.710E-10	1.354E-10
SE	3.524E-09	3.137E-09	3.066E-09	2.347E-09	1.241E-09	7.863E-10	5.406E-10	3.917E-10	2.947E-10	2.281E-10	1.806E-10
SSE	4.327E-09	3.797E-09	3.638E-09	2.748E-09	1.439E-09	9.090E-10	6.238E-10	4.516E-10	3.396E-10	2.628E-10	2.081E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	9.345E-11	7.082E-11	4.924E-11	2.898E-11	1.842E-11	1.287E-11	9.199E-12	6.889E-12	5.320E-12	4.250E-12	3.469E-12
SSW	6.618E-11	4.721E-11	3.248E-11	1.904E-11	1.218E-11	8.386E-12	6.010E-12	4.514E-12	3.560E-12	2.844E-12	2.321E-12
SW	4.001E-11	3.031E-11	2.102E-11	1.232E-11	7.778E-12	5.296E-12	3.934E-12	2.954E-12	2.297E-12	1.834E-12	1.497E-12
WSW	4.775E-11	3.974E-11	2.827E-11	1.764E-11	1.067E-11	7.157E-12	5.129E-12	3.851E-12	2.994E-12	2.392E-12	1.952E-12
W	6.852E-11	3.048E-11	3.305E-11	1.961E-11	1.314E-11	8.922E-12	6.393E-12	4.800E-12	3.732E-12	2.981E-12	2.433E-12
WNW	1.939E-10	9.897E-11	6.456E-11	3.601E-11	2.517E-11	1.757E-11	1.276E-11	9.586E-12	7.478E-12	5.973E-12	4.876E-12
NW	2.859E-10	1.611E-10	1.113E-10	7.057E-11	4.275E-11	2.866E-11	2.080E-11	1.562E-11	1.214E-11	9.701E-12	7.918E-12
NNW	3.953E-10	2.328E-10	1.646E-10	9.901E-11	6.408E-11	4.349E-11	3.008E-11	2.213E-11	1.731E-11	1.383E-11	1.129E-11
N	4.278E-10	2.052E-10	1.269E-10	6.898E-11	8.903E-11	6.119E-11	4.384E-11	3.292E-11	2.560E-11	2.045E-11	1.669E-11
NNE	1.370E-10	1.814E-10	1.137E-10	5.985E-11	3.670E-11	2.456E-11	1.753E-11	1.310E-11	1.015E-11	8.081E-12	6.578E-12
NE	5.111E-11	8.195E-11	5.094E-11	2.656E-11	1.623E-11	1.086E-11	7.836E-12	5.789E-12	4.502E-12	3.637E-12	2.968E-12
ENE	4.226E-11	4.061E-11	2.841E-11	1.677E-11	1.061E-11	7.039E-12	4.961E-12	3.894E-12	3.025E-12	2.414E-12	1.970E-12
E	7.162E-11	6.067E-11	4.127E-11	2.380E-11	1.501E-11	1.001E-11	7.095E-12	5.263E-12	4.054E-12	3.698E-12	3.015E-12
ESE	1.093E-10	9.378E-11	6.457E-11	3.779E-11	2.409E-11	1.619E-11	1.157E-11	8.639E-12	6.685E-12	5.336E-12	4.355E-12
SE	1.457E-10	6.928E-11	4.243E-11	2.258E-11	1.396E-11	9.700E-12	7.291E-12	1.144E-11	8.862E-12	7.080E-12	5.789E-12
SSE	1.679E-10	2.008E-10	1.228E-10	6.278E-11	3.813E-11	2.555E-11	1.828E-11	1.370E-11	1.064E-11	8.490E-12	6.924E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.294E-09	6.586E-10	2.895E-10	1.623E-10	1.125E-10	6.626E-11	2.879E-11	1.288E-11	6.951E-12	4.278E-12
SSW	1.439E-09	5.526E-10	2.161E-10	1.290E-10	8.245E-11	4.488E-11	1.898E-11	8.448E-12	4.578E-12	2.862E-12
SW	3.566E-10	3.853E-10	1.781E-10	8.561E-11	5.026E-11	2.834E-11	1.223E-11	5.413E-12	2.983E-12	1.847E-12
WSW	6.526E-10	5.681E-10	2.083E-10	1.002E-10	5.914E-11	3.642E-11	1.691E-11	7.284E-12	3.890E-12	2.408E-12
W	2.386E-09	9.473E-10	3.163E-10	1.491E-10	8.641E-11	4.007E-11	1.972E-11	9.036E-12	4.848E-12	3.001E-12
WNW	5.350E-09	2.667E-09	8.880E-10	4.062E-10	2.390E-10	1.048E-10	3.753E-11	1.768E-11	9.691E-12	6.013E-12
NW	6.399E-09	3.672E-09	1.206E-09	5.587E-10	3.426E-10	1.667E-10	6.725E-11	2.927E-11	1.578E-11	9.765E-12
NNW	9.133E-09	3.608E-09	1.384E-09	7.395E-10	4.668E-10	2.386E-10	9.806E-11	4.362E-11	2.257E-11	1.392E-11
N	1.518E-08	4.834E-09	1.693E-09	8.774E-10	5.324E-10	2.198E-10	9.075E-11	6.167E-11	3.325E-11	2.058E-11
NNE	3.975E-09	1.415E-09	5.313E-10	2.804E-10	1.707E-10	1.415E-10	6.153E-11	2.499E-11	1.324E-11	8.137E-12
NE	6.371E-10	4.008E-10	1.876E-10	1.040E-10	6.381E-11	6.132E-11	2.739E-11	1.108E-11	5.884E-12	3.646E-12
ENE	4.497E-10	3.198E-10	1.541E-10	8.590E-11	5.277E-11	3.556E-11	1.662E-11	7.160E-12	3.868E-12	2.430E-12
E	9.486E-10	5.700E-10	2.636E-10	1.457E-10	8.941E-11	5.448E-11	2.378E-11	1.018E-11	5.326E-12	3.550E-12
ESE	2.375E-09	1.009E-09	4.137E-10	2.230E-10	1.362E-10	8.424E-11	3.765E-11	1.645E-11	8.731E-12	5.372E-12
SE	2.762E-09	1.285E-09	5.466E-10	2.970E-10	1.817E-10	7.432E-11	2.316E-11	9.872E-12	9.273E-12	7.130E-12
SSE	3.278E-09	1.494E-09	6.310E-10	3.423E-10	2.094E-10	1.588E-10	6.516E-11	2.600E-11	1.384E-11	8.547E-12

ERP ELEVATED STACK RELEASES - APR-JUN 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	2.7E-08	2.7E-08	2.7E-08	1.4E-09
A	Site Boundary	SSW	.82	3.0E-08	3.0E-08	2.9E-08	1.4E-09
A	Site Boundary	SW	.97	3.7E-08	3.7E-08	3.7E-08	4.2E-10
A	Site Boundary	WSW	.93	5.1E-08	5.1E-08	5.1E-08	8.3E-10
A	Site Boundary	W	.91	1.5E-07	1.5E-07	1.5E-07	2.1E-09
A	Site Boundary	WNW	.94	2.6E-07	2.6E-07	2.6E-07	5.4E-09
A	Site Boundary	NW	.81	2.1E-07	2.1E-07	2.1E-07	5.1E-09
A	Site Boundary	NNW	.69	2.0E-07	2.0E-07	2.0E-07	1.1E-08
A	Site Boundary	N	.67	2.3E-07	2.3E-07	2.3E-07	1.8E-08
A	Site Boundary	NNE	.60	8.5E-08	8.5E-08	8.4E-08	5.0E-09
A	Site Boundary	NE	.62	6.5E-09	6.4E-09	6.4E-09	5.8E-10
A	Site Boundary	ENE	.59	1.7E-09	1.7E-09	1.7E-09	3.3E-10
A	Site Boundary	E	.53	4.2E-09	4.2E-09	4.2E-09	7.8E-10
A	Site Boundary	ESE	.54	2.6E-08	2.6E-08	2.6E-08	2.9E-09
A	Site Boundary	SE	.65	3.6E-08	3.6E-08	3.6E-08	3.0E-09
A	Site Boundary	SSE	.81	5.6E-08	5.6E-08	5.5E-08	3.4E-09
A	Nearest Res	SW	1.30	5.7E-08	5.6E-08	5.6E-08	6.8E-10
A	Nearest Res	WSW	1.30	9.4E-08	9.3E-08	9.3E-08	7.9E-10
A	Nearest Res	W	1.00	1.5E-07	1.5E-07	1.5E-07	1.9E-09
A	Nearest Res	WNW	1.70	2.1E-07	2.1E-07	2.1E-07	2.1E-09
A	Nearest Res	NW	.90	2.5E-07	2.5E-07	2.5E-07	8.0E-09
A	Nearest Res	NNW	1.90	1.9E-07	1.9E-07	1.8E-07	2.3E-09
A	Nearest Res	N	3.00	6.6E-08	6.5E-08	6.3E-08	1.2E-09
A	Nearest Res	ENE	1.70	1.6E-08	1.6E-08	1.6E-08	2.7E-10
A	Nearest Res	E	1.90	2.2E-08	2.2E-08	2.2E-08	4.0E-10
A	Nearest Res	ESE	2.30	3.0E-08	3.0E-08	2.9E-08	4.7E-10
A	Nearest Res	SE	3.20	2.9E-08	2.9E-08	2.8E-08	3.5E-10
A	Nearest Cow	NNW	3.50	1.1E-07	1.1E-07	1.1E-07	7.2E-10
A	Nearest Garde	SW	2.20	3.5E-08	3.5E-08	3.4E-08	2.3E-10
A	Nearest Garde	WSW	1.90	6.9E-08	6.9E-08	6.8E-08	3.6E-10
A	Nearest Garde	WNW	2.40	1.1E-07	1.1E-07	1.1E-07	9.3E-10
A	Nearest Garde	ESE	3.00	2.2E-08	2.2E-08	2.1E-08	2.9E-10
A	Nearest Garde	SE	3.50	2.6E-08	2.6E-08	2.5E-08	2.9E-10
A	MAXIMUM CHI/Q	S	1.50	3.1E-08	3.1E-08	3.1E-08	6.4E-10
A	MAXIMUM CHI/Q	SSW	1.00	3.0E-08	3.0E-08	2.9E-08	1.1E-09
A	MAXIMUM CHI/Q	SW	1.50	6.1E-08	6.1E-08	6.0E-08	5.1E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.0E-07	1.0E-07	1.0E-07	6.0E-10
A	MAXIMUM CHI/Q	W	1.00	1.5E-07	1.5E-07	1.5E-07	1.9E-09
A	MAXIMUM CHI/Q	WNW	1.00	2.7E-07	2.7E-07	2.7E-07	4.8E-09
A	MAXIMUM CHI/Q	NW	1.50	3.9E-07	3.9E-07	3.9E-07	3.9E-09
A	MAXIMUM CHI/Q	NNW	.75	2.0E-07	2.0E-07	2.0E-07	1.0E-08
A	MAXIMUM CHI/Q	N	.50	2.4E-07	2.4E-07	2.4E-07	2.3E-08
A	MAXIMUM CHI/Q	NNE	.75	9.9E-08	9.9E-08	9.7E-08	4.4E-09
A	MAXIMUM CHI/Q	NE	1.50	2.5E-08	2.5E-08	2.5E-08	4.0E-10
A	MAXIMUM CHI/Q	ENE	1.50	1.6E-08	1.6E-08	1.6E-08	3.2E-10
A	MAXIMUM CHI/Q	E	1.50	2.5E-08	2.5E-08	2.4E-08	5.7E-10
A	MAXIMUM CHI/Q	ESE	1.00	4.7E-08	4.7E-08	4.7E-08	1.9E-09
A	MAXIMUM CHI/Q	SE	1.00	5.7E-08	5.7E-08	5.6E-08	2.3E-09
A	MAXIMUM CHI/Q	SSE	1.00	6.1E-08	6.1E-08	6.0E-08	2.7E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-June 2005

ERP ELEVATED STACK RELEASES - JAN-JUN 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.464E-09	2.929E-08	6.897E-08	8.777E-08	8.975E-08	7.532E-08	6.103E-08	4.971E-08	4.111E-08	4.443E-08	4.546E-08
SSW	2.259E-09	1.497E-08	3.573E-08	5.098E-08	5.746E-08	5.002E-08	4.131E-08	4.271E-08	4.116E-08	3.482E-08	2.992E-08
SW	1.505E-11	1.386E-09	2.392E-08	6.171E-08	9.951E-08	6.657E-08	4.744E-08	3.563E-08	2.789E-08	2.254E-08	1.869E-08
WSW	3.521E-16	4.569E-10	2.452E-08	7.315E-08	1.277E-07	8.044E-08	5.543E-08	4.078E-08	3.147E-08	2.518E-08	2.073E-08
W	2.370E-13	2.528E-08	1.262E-07	1.598E-07	1.414E-07	8.712E-08	5.930E-08	4.327E-08	3.321E-08	2.646E-08	2.171E-08
WNW	1.869E-09	4.464E-08	1.936E-07	3.053E-07	3.328E-07	1.979E-07	1.317E-07	9.758E-08	7.566E-08	5.931E-08	4.800E-08
NW	8.600E-09	4.489E-08	1.375E-07	2.816E-07	4.495E-07	2.634E-07	1.739E-07	1.265E-07	9.682E-08	7.599E-08	6.159E-08
NNW	5.919E-08	9.995E-08	1.256E-07	1.472E-07	1.842E-07	1.715E-07	1.504E-07	1.276E-07	1.088E-07	8.517E-08	6.891E-08
N	1.119E-07	1.287E-07	1.278E-07	1.103E-07	9.264E-08	7.761E-08	6.429E-08	5.275E-08	4.404E-08	3.738E-08	3.221E-08
NNE	8.196E-09	5.556E-08	8.066E-08	7.890E-08	7.224E-08	6.156E-08	5.145E-08	4.320E-08	3.671E-08	3.161E-08	2.759E-08
NE	1.284E-10	7.756E-09	1.797E-08	2.310E-08	2.604E-08	2.385E-08	2.067E-08	1.777E-08	1.537E-08	1.342E-08	1.184E-08
ENE	3.595E-16	3.513E-10	5.999E-09	1.213E-08	1.637E-08	1.541E-08	1.338E-08	1.146E-08	9.843E-09	8.537E-09	7.487E-09
E	5.864E-10	4.061E-09	1.223E-08	1.922E-08	2.327E-08	2.105E-08	1.786E-08	1.503E-08	1.275E-08	1.095E-08	9.521E-09
ESE	2.538E-10	1.583E-08	3.549E-08	4.260E-08	4.285E-08	3.636E-08	2.985E-08	2.462E-08	2.058E-08	1.747E-08	1.506E-08
SE	2.799E-10	1.605E-08	4.119E-08	5.376E-08	5.677E-08	4.893E-08	4.054E-08	3.364E-08	2.827E-08	2.410E-08	2.083E-08
SSE	6.235E-09	3.741E-08	6.460E-08	7.473E-08	7.483E-08	6.375E-08	5.254E-08	4.345E-08	3.641E-08	3.097E-08	2.672E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.973E-08	2.515E-08	1.619E-08	9.168E-09	6.385E-09	4.810E-09	3.731E-09	3.013E-09	2.528E-09	2.163E-09	1.871E-09
SSW	2.661E-08	1.771E-08	1.132E-08	6.353E-09	4.408E-09	3.264E-09	2.522E-09	2.030E-09	1.684E-09	1.429E-09	1.234E-09
SW	1.669E-08	1.087E-08	7.006E-09	3.965E-09	2.719E-09	2.022E-09	1.585E-09	1.277E-09	1.059E-09	8.983E-10	7.757E-10
WSW	1.805E-08	1.104E-08	7.586E-09	4.519E-09	3.015E-09	2.207E-09	1.713E-09	1.383E-09	1.151E-09	9.787E-10	8.470E-10
W	1.822E-08	9.729E-09	6.727E-09	4.178E-09	2.992E-09	2.200E-09	1.705E-09	1.375E-09	1.143E-09	9.712E-10	8.399E-10
WNW	4.010E-08	2.106E-08	1.368E-08	7.798E-09	5.186E-09	3.782E-09	2.927E-09	2.355E-09	1.949E-09	1.649E-09	1.420E-09
NW	5.156E-08	2.731E-08	1.791E-08	1.029E-08	6.847E-09	5.000E-09	3.893E-09	3.141E-09	2.607E-09	2.213E-09	1.911E-09
NNW	5.806E-08	3.148E-08	2.024E-08	1.148E-08	7.714E-09	5.677E-09	4.448E-09	3.620E-09	3.046E-09	2.603E-09	2.256E-09
N	2.820E-08	1.716E-08	1.338E-08	9.649E-09	7.536E-09	5.998E-09	4.689E-09	3.801E-09	3.166E-09	2.697E-09	2.337E-09
NNE	2.982E-08	3.583E-08	2.305E-08	1.309E-08	8.812E-09	6.495E-09	5.069E-09	4.114E-09	3.436E-09	2.932E-09	2.546E-09
NE	1.335E-08	2.808E-08	1.851E-08	1.088E-08	7.487E-09	5.616E-09	4.518E-09	3.751E-09	3.199E-09	2.752E-09	2.406E-09
ENE	7.950E-09	1.423E-08	9.631E-09	5.829E-09	4.082E-09	3.098E-09	2.661E-09	2.302E-09	1.944E-09	1.675E-09	1.467E-09
E	9.842E-09	1.246E-08	8.199E-09	4.780E-09	3.266E-09	2.434E-09	1.915E-09	1.565E-09	1.359E-09	1.193E-09	1.038E-09
ESE	1.499E-08	1.621E-08	1.074E-08	6.320E-09	4.348E-09	3.255E-09	2.572E-09	2.108E-09	1.775E-09	1.526E-09	1.333E-09
SE	1.823E-08	1.106E-08	8.447E-09	6.024E-09	4.435E-09	3.528E-09	2.946E-09	2.540E-09	2.136E-09	1.833E-09	1.599E-09
SSE	2.775E-08	3.215E-08	2.074E-08	1.182E-08	7.970E-09	5.885E-09	4.600E-09	3.739E-09	3.127E-09	2.672E-09	2.323E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.851E-08	8.290E-08	6.031E-08	4.483E-08	4.303E-08	2.441E-08	9.491E-09	4.799E-09	3.033E-09	2.163E-09
SSW	3.790E-08	5.271E-08	4.419E-08	3.919E-08	3.015E-08	1.685E-08	6.592E-09	3.272E-09	2.039E-09	1.432E-09
SW	3.571E-08	7.647E-08	4.782E-08	2.806E-08	1.909E-08	1.045E-08	4.087E-09	2.033E-09	1.282E-09	9.005E-10
WSW	4.079E-08	9.458E-08	5.624E-08	3.173E-08	2.106E-08	1.106E-08	4.532E-09	2.225E-09	1.389E-09	9.809E-10
W	1.187E-07	1.213E-07	6.031E-08	3.351E-08	2.182E-08	1.028E-08	4.217E-09	2.213E-09	1.381E-09	9.735E-10
WNW	2.101E-07	2.668E-07	1.357E-07	7.569E-08	4.842E-08	2.201E-08	7.945E-09	3.815E-09	2.364E-09	1.653E-09
NW	1.810E-07	3.295E-07	1.788E-07	9.736E-08	6.214E-08	2.852E-08	1.045E-08	5.050E-09	3.153E-09	2.218E-09
NNW	1.295E-07	1.704E-07	1.469E-07	1.052E-07	6.971E-08	3.239E-08	1.175E-08	5.728E-09	3.638E-09	2.606E-09
N	1.202E-07	8.990E-08	6.323E-08	4.399E-08	3.226E-08	1.793E-08	9.538E-09	5.884E-09	3.813E-09	2.703E-09
NNE	7.430E-08	6.897E-08	5.084E-08	3.662E-08	2.961E-08	2.881E-08	1.340E-08	6.543E-09	4.128E-09	2.938E-09
NE	1.798E-08	2.441E-08	2.036E-08	1.531E-08	1.287E-08	2.056E-08	1.107E-08	5.676E-09	3.760E-09	2.756E-09
ENE	7.468E-09	1.500E-08	1.315E-08	9.806E-09	7.970E-09	1.079E-08	5.897E-09	3.186E-09	2.268E-09	1.678E-09
E	1.352E-08	2.138E-08	1.758E-08	1.272E-08	1.006E-08	9.985E-09	4.867E-09	2.448E-09	1.587E-09	1.185E-09
ESE	3.428E-08	3.991E-08	2.949E-08	2.055E-08	1.575E-08	1.351E-08	6.425E-09	3.273E-09	2.114E-09	1.528E-09
SE	4.119E-08	5.262E-08	4.001E-08	2.821E-08	2.083E-08	1.149E-08	5.856E-09	3.537E-09	2.502E-09	1.836E-09
SSE	6.306E-08	6.988E-08	5.189E-08	3.635E-08	2.836E-08	2.610E-08	1.209E-08	5.927E-09	3.752E-09	2.678E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.464E-09	2.928E-08	6.891E-08	8.766E-08	8.956E-08	7.510E-08	6.080E-08	4.948E-08	4.089E-08	4.416E-08	4.513E-08
SSW	2.258E-09	1.496E-08	3.570E-08	5.091E-08	5.731E-08	4.983E-08	4.111E-08	4.246E-08	4.087E-08	3.454E-08	2.964E-08
SW	1.505E-11	1.385E-09	2.389E-08	6.159E-08	9.920E-08	6.629E-08	4.718E-08	3.540E-08	2.767E-08	2.234E-08	1.850E-08
WSW	3.520E-16	4.565E-10	2.449E-08	7.299E-08	1.273E-07	8.006E-08	5.510E-08	4.048E-08	3.120E-08	2.493E-08	2.050E-08
W	2.369E-13	2.526E-08	1.261E-07	1.594E-07	1.409E-07	8.672E-08	5.895E-08	4.297E-08	3.293E-08	2.620E-08	2.146E-08
WNW	1.868E-09	4.462E-08	1.933E-07	3.048E-07	3.317E-07	1.970E-07	1.309E-07	9.688E-08	7.502E-08	5.873E-08	4.747E-08
NW	8.598E-09	4.486E-08	1.374E-07	2.811E-07	4.482E-07	2.624E-07	1.730E-07	1.257E-07	9.611E-08	7.535E-08	6.100E-08
NNW	5.918E-08	9.990E-08	1.255E-07	1.470E-07	1.838E-07	1.709E-07	1.498E-07	1.270E-07	1.081E-07	8.455E-08	6.834E-08
N	1.119E-07	1.287E-07	1.277E-07	1.102E-07	9.246E-08	7.738E-08	6.404E-08	5.250E-08	4.379E-08	3.713E-08	3.197E-08
NNE	8.194E-09	5.554E-08	8.058E-08	7.878E-08	7.203E-08	6.130E-08	5.116E-08	4.290E-08	3.640E-08	3.131E-08	2.729E-08
NE	1.284E-10	7.752E-09	1.796E-08	2.307E-08	2.596E-08	2.374E-08	2.055E-08	1.765E-08	1.524E-08	1.328E-08	1.171E-08
ENE	3.595E-16	3.511E-10	5.992E-09	1.211E-08	1.633E-08	1.535E-08	1.333E-08	1.139E-08	9.781E-09	8.476E-09	7.426E-09
E	5.864E-10	4.059E-09	1.222E-08	1.919E-08	2.321E-08	2.097E-08	1.777E-08	1.494E-08	1.266E-08	1.085E-08	9.425E-09
ESE	2.537E-10	1.582E-08	3.546E-08	4.255E-08	4.275E-08	3.624E-08	2.973E-08	2.449E-08	2.046E-08	1.735E-08	1.494E-08
SE	2.798E-10	1.605E-08	4.116E-08	5.370E-08	5.667E-08	4.880E-08	4.040E-08	3.350E-08	2.813E-08	2.396E-08	2.069E-08
SSE	6.234E-09	3.740E-08	6.456E-08	7.465E-08	7.468E-08	6.356E-08	5.234E-08	4.325E-08	3.621E-08	3.077E-08	2.653E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.940E-08	2.480E-08	1.587E-08	8.896E-09	6.124E-09	4.559E-09	3.497E-09	2.793E-09	2.316E-09	1.959E-09	1.676E-09
SSW	2.633E-08	1.741E-08	1.106E-08	6.135E-09	4.204E-09	3.074E-09	2.347E-09	1.867E-09	1.531E-09	1.284E-09	1.096E-09
SW	1.651E-08	1.070E-08	6.853E-09	3.837E-09	2.603E-09	1.916E-09	1.486E-09	1.185E-09	9.725E-10	8.167E-10	6.982E-10
WSW	1.783E-08	1.084E-08	7.403E-09	4.359E-09	2.874E-09	2.080E-09	1.596E-09	1.275E-09	1.049E-09	8.822E-10	7.553E-10
W	1.799E-08	9.541E-09	6.548E-09	4.004E-09	2.820E-09	2.042E-09	1.559E-09	1.240E-09	1.015E-09	8.503E-10	7.249E-10
WNW	3.960E-08	2.066E-08	1.334E-08	7.507E-09	4.932E-09	3.553E-09	2.717E-09	2.160E-09	1.767E-09	1.478E-09	1.258E-09
NW	5.102E-08	2.688E-08	1.753E-08	9.971E-09	6.564E-09	4.745E-09	3.657E-09	2.922E-09	2.402E-09	2.019E-09	1.727E-09
NNW	5.752E-08	3.103E-08	1.986E-08	1.116E-08	7.425E-09	5.413E-09	4.202E-09	3.389E-09	2.824E-09	2.392E-09	2.054E-09
N	2.797E-08	1.695E-08	1.316E-08	9.414E-09	7.285E-09	5.741E-09	4.450E-09	3.577E-09	2.956E-09	2.497E-09	2.146E-09
NNE	2.945E-08	3.521E-08	2.253E-08	1.265E-08	8.425E-09	6.144E-09	4.744E-09	3.811E-09	3.150E-09	2.661E-09	2.287E-09
NE	1.319E-08	2.758E-08	1.807E-08	1.049E-08	7.137E-09	5.291E-09	4.207E-09	3.451E-09	2.908E-09	2.473E-09	2.138E-09
ENE	7.877E-09	1.393E-08	9.355E-09	5.574E-09	3.843E-09	2.872E-09	2.423E-09	2.061E-09	1.713E-09	1.453E-09	1.253E-09
E	9.730E-09	1.226E-08	8.024E-09	4.631E-09	3.132E-09	2.311E-09	1.801E-09	1.458E-09	1.254E-09	1.090E-09	9.404E-10
ESE	1.486E-08	1.599E-08	1.055E-08	6.150E-09	4.192E-09	3.110E-09	2.434E-09	1.977E-09	1.650E-09	1.406E-09	1.217E-09
SE	1.810E-08	1.094E-08	8.320E-09	5.884E-09	4.294E-09	3.384E-09	2.799E-09	2.389E-09	1.990E-09	1.692E-09	1.463E-09
SSE	2.753E-08	3.166E-08	2.031E-08	1.145E-08	7.638E-09	5.579E-09	4.314E-09	3.469E-09	2.870E-09	2.426E-09	2.087E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.843E-08	8.271E-08	6.009E-08	4.459E-08	4.272E-08	2.407E-08	9.214E-09	4.551E-09	2.812E-09	1.960E-09
SSW	3.785E-08	5.256E-08	4.398E-08	3.891E-08	2.987E-08	1.657E-08	6.372E-09	3.085E-09	1.876E-09	1.287E-09
SW	3.564E-08	7.622E-08	4.757E-08	2.785E-08	1.890E-08	1.028E-08	3.959E-09	1.927E-09	1.190E-09	8.190E-10
WSW	4.070E-08	9.422E-08	5.591E-08	3.146E-08	2.082E-08	1.087E-08	4.376E-09	2.098E-09	1.280E-09	8.845E-10
W	1.185E-07	1.209E-07	5.996E-08	3.323E-08	2.158E-08	1.009E-08	4.043E-09	2.056E-09	1.245E-09	8.527E-10
WNW	2.098E-07	2.659E-07	1.349E-07	7.506E-08	4.789E-08	2.162E-08	7.658E-09	3.586E-09	2.170E-09	1.482E-09
NW	1.807E-07	3.285E-07	1.779E-07	9.666E-08	6.156E-08	2.809E-08	1.014E-08	4.795E-09	2.934E-09	2.024E-09
NNW	1.294E-07	1.699E-07	1.463E-07	1.045E-07	6.914E-08	3.195E-08	1.143E-08	5.465E-09	3.406E-09	2.395E-09
N	1.201E-07	8.971E-08	6.298E-08	4.374E-08	3.202E-08	1.771E-08	9.299E-09	5.637E-09	3.590E-09	2.503E-09
NNE	7.421E-08	6.876E-08	5.056E-08	3.632E-08	2.928E-08	2.830E-08	1.297E-08	6.192E-09	3.826E-09	2.667E-09
NE	1.796E-08	2.433E-08	2.024E-08	1.518E-08	1.272E-08	2.016E-08	1.069E-08	5.350E-09	3.460E-09	2.478E-09
ENE	7.457E-09	1.496E-08	1.309E-08	9.745E-09	7.904E-09	1.055E-08	5.645E-09	2.951E-09	2.032E-09	1.456E-09
E	1.350E-08	2.132E-08	1.749E-08	1.262E-08	9.961E-09	9.816E-09	4.719E-09	2.326E-09	1.478E-09	1.083E-09
ESE	3.425E-08	3.981E-08	2.937E-08	2.043E-08	1.563E-08	1.332E-08	6.257E-09	3.128E-09	1.983E-09	1.408E-09
SE	4.115E-08	5.251E-08	3.988E-08	2.808E-08	2.070E-08	1.136E-08	5.719E-09	3.393E-09	2.354E-09	1.696E-09
SSE	6.301E-08	6.973E-08	5.170E-08	3.615E-08	2.816E-08	2.570E-08	1.172E-08	5.622E-09	3.482E-09	2.432E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.464E-09	2.904E-08	6.809E-08	8.687E-08	8.837E-08	7.358E-08	5.913E-08	4.778E-08	3.923E-08	4.224E-08	4.311E-08
SSW	2.258E-09	1.484E-08	3.536E-08	5.062E-08	5.671E-08	4.894E-08	4.008E-08	4.115E-08	3.942E-08	3.313E-08	2.829E-08
SW	1.505E-11	1.378E-09	2.388E-08	6.164E-08	9.830E-08	6.512E-08	4.602E-08	3.433E-08	2.670E-08	2.147E-08	1.771E-08
WSW	3.521E-16	4.568E-10	2.451E-08	7.304E-08	1.261E-07	7.872E-08	5.383E-08	3.935E-08	3.020E-08	2.405E-08	1.970E-08
W	2.369E-13	2.527E-08	1.255E-07	1.578E-07	1.382E-07	8.437E-08	5.699E-08	4.131E-08	3.152E-08	2.499E-08	2.040E-08
WNW	1.869E-09	4.432E-08	1.922E-07	3.019E-07	3.257E-07	1.915E-07	1.262E-07	9.283E-08	7.151E-08	5.566E-08	4.473E-08
NW	8.600E-09	4.449E-08	1.361E-07	2.792E-07	4.430E-07	2.572E-07	1.687E-07	1.220E-07	9.292E-08	7.252E-08	5.842E-08
NNW	5.919E-08	9.904E-08	1.234E-07	1.453E-07	1.816E-07	1.682E-07	1.470E-07	1.244E-07	1.058E-07	8.238E-08	6.627E-08
N	1.119E-07	1.275E-07	1.253E-07	1.082E-07	9.066E-08	7.560E-08	6.228E-08	5.082E-08	4.220E-08	3.564E-08	3.057E-08
NNE	8.195E-09	5.507E-08	7.913E-08	7.741E-08	7.074E-08	5.998E-08	4.985E-08	4.163E-08	3.520E-08	3.017E-08	2.622E-08
NE	1.284E-10	7.689E-09	1.772E-08	2.284E-08	2.565E-08	2.335E-08	2.012E-08	1.721E-08	1.480E-08	1.287E-08	1.132E-08
ENE	3.595E-16	3.512E-10	5.997E-09	1.212E-08	1.623E-08	1.515E-08	1.307E-08	1.112E-08	9.502E-09	8.202E-09	7.162E-09
E	5.864E-10	4.028E-09	1.213E-08	1.912E-08	2.300E-08	2.064E-08	1.737E-08	1.452E-08	1.223E-08	1.044E-08	9.027E-09
ESE	2.537E-10	1.569E-08	3.497E-08	4.206E-08	4.214E-08	3.551E-08	2.894E-08	2.370E-08	1.969E-08	1.661E-08	1.424E-08
SE	2.799E-10	1.592E-08	4.069E-08	5.325E-08	5.596E-08	4.789E-08	3.940E-08	3.248E-08	2.713E-08	2.301E-08	1.979E-08
SSE	6.235E-09	3.709E-08	6.366E-08	7.383E-08	7.364E-08	6.231E-08	5.100E-08	4.190E-08	3.489E-08	2.950E-08	2.532E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.750E-08	2.324E-08	1.449E-08	7.723E-09	5.044E-09	3.596E-09	2.667E-09	2.068E-09	1.673E-09	1.387E-09	1.166E-09
SSW	2.504E-08	1.631E-08	1.010E-08	5.333E-09	3.484E-09	2.473E-09	1.841E-09	1.433E-09	1.152E-09	9.489E-10	7.971E-10
SW	1.578E-08	1.009E-08	6.290E-09	3.339E-09	2.136E-09	1.498E-09	1.130E-09	8.787E-10	7.059E-10	5.814E-10	4.882E-10
WSW	1.711E-08	1.022E-08	6.804E-09	3.837E-09	2.444E-09	1.720E-09	1.288E-09	1.008E-09	8.136E-10	6.731E-10	5.677E-10
W	1.705E-08	8.946E-09	6.085E-09	3.573E-09	2.414E-09	1.704E-09	1.273E-09	9.939E-10	8.011E-10	6.616E-10	5.570E-10
WNW	3.712E-08	1.884E-08	1.185E-08	6.339E-09	3.942E-09	2.723E-09	2.022E-09	1.570E-09	1.257E-09	1.031E-09	8.621E-10
NW	4.860E-08	2.490E-08	1.579E-08	8.519E-09	5.342E-09	3.711E-09	2.776E-09	2.166E-09	1.742E-09	1.436E-09	1.207E-09
NNW	5.551E-08	2.913E-08	1.810E-08	9.566E-09	5.941E-09	4.090E-09	3.029E-09	2.360E-09	1.916E-09	1.586E-09	1.335E-09
N	2.665E-08	1.595E-08	1.234E-08	8.835E-09	6.735E-09	5.129E-09	3.887E-09	3.063E-09	2.486E-09	2.066E-09	1.750E-09
NNE	2.836E-08	3.407E-08	2.117E-08	1.130E-08	7.165E-09	5.020E-09	3.747E-09	2.921E-09	2.351E-09	1.940E-09	1.631E-09
NE	1.278E-08	2.712E-08	1.726E-08	9.517E-09	6.158E-09	4.384E-09	3.377E-09	2.709E-09	2.239E-09	1.873E-09	1.594E-09
ENE	7.605E-09	1.374E-08	8.979E-09	5.053E-09	3.251E-09	2.297E-09	1.850E-09	1.518E-09	1.228E-09	1.017E-09	8.580E-10
E	9.318E-09	1.186E-08	7.547E-09	4.115E-09	2.607E-09	1.821E-09	1.354E-09	1.051E-09	8.702E-10	7.318E-10	6.152E-10
ESE	1.414E-08	1.535E-08	9.854E-09	5.440E-09	3.482E-09	2.450E-09	1.832E-09	1.429E-09	1.150E-09	9.473E-10	7.952E-10
SE	1.724E-08	1.028E-08	7.782E-09	5.506E-09	4.022E-09	3.183E-09	2.650E-09	2.273E-09	1.868E-09	1.571E-09	1.344E-09
SSE	2.627E-08	3.042E-08	1.894E-08	1.015E-08	6.464E-09	4.543E-09	3.399E-09	2.655E-09	2.141E-09	1.768E-09	1.489E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.776E-08	8.146E-08	5.845E-08	4.282E-08	4.077E-08	2.252E-08	8.036E-09	3.611E-09	2.089E-09	1.390E-09
SSW	3.758E-08	5.190E-08	4.287E-08	3.752E-08	2.852E-08	1.549E-08	5.570E-09	2.489E-09	1.442E-09	9.528E-10
SW	3.566E-08	7.541E-08	4.644E-08	2.689E-08	1.811E-08	9.664E-09	3.460E-09	1.521E-09	8.846E-10	5.838E-10
WSW	4.073E-08	9.326E-08	5.467E-08	3.047E-08	2.003E-08	1.023E-08	3.877E-09	1.740E-09	1.014E-09	6.757E-10
W	1.176E-07	1.186E-07	5.802E-08	3.183E-08	2.052E-08	9.476E-09	3.616E-09	1.721E-09	1.000E-09	6.642E-10
WNW	2.081E-07	2.608E-07	1.303E-07	7.156E-08	4.515E-08	1.979E-08	6.498E-09	2.767E-09	1.579E-09	1.035E-09
NW	1.794E-07	3.240E-07	1.736E-07	9.345E-08	5.896E-08	2.612E-08	8.723E-09	3.772E-09	2.179E-09	1.442E-09
NNW	1.277E-07	1.676E-07	1.436E-07	1.022E-07	6.706E-08	3.009E-08	9.850E-09	4.159E-09	2.382E-09	1.591E-09
N	1.182E-07	8.786E-08	6.125E-08	4.216E-08	3.062E-08	1.672E-08	8.680E-09	5.060E-09	3.078E-09	2.073E-09
NNE	7.302E-08	6.744E-08	4.927E-08	3.512E-08	2.818E-08	2.707E-08	1.166E-08	5.083E-09	2.940E-09	1.947E-09
NE	1.777E-08	2.400E-08	1.982E-08	1.475E-08	1.232E-08	1.955E-08	9.746E-09	4.454E-09	2.721E-09	1.878E-09
ENE	7.464E-09	1.484E-08	1.284E-08	9.468E-09	7.634E-09	1.026E-08	5.125E-09	2.372E-09	1.503E-09	1.021E-09
E	1.344E-08	2.109E-08	1.710E-08	1.220E-08	9.553E-09	9.377E-09	4.208E-09	1.844E-09	1.069E-09	7.296E-10
ESE	3.384E-08	3.917E-08	2.860E-08	1.966E-08	1.491E-08	1.264E-08	5.550E-09	2.478E-09	1.438E-09	9.510E-10
SE	4.077E-08	5.177E-08	3.890E-08	2.709E-08	1.980E-08	1.071E-08	5.352E-09	3.194E-09	2.226E-09	1.575E-09
SSE	6.227E-08	6.865E-08	5.037E-08	3.484E-08	2.691E-08	2.440E-08	1.047E-08	4.597E-09	2.672E-09	1.775E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.360E-09	3.386E-09	3.844E-09	3.209E-09	1.794E-09	1.161E-09	8.061E-10	5.871E-10	4.428E-10	3.578E-10	3.279E-10
SSW	1.691E-09	1.759E-09	2.062E-09	1.750E-09	9.878E-10	6.411E-10	4.460E-10	3.251E-10	3.050E-10	2.306E-10	1.805E-10
SW	1.780E-10	3.691E-10	6.457E-10	6.367E-10	7.465E-10	4.079E-10	2.532E-10	1.721E-10	1.245E-10	9.417E-11	7.370E-11
WSW	3.962E-11	2.377E-10	5.061E-10	1.011E-09	6.490E-10	3.531E-10	2.185E-10	1.481E-10	1.070E-10	8.083E-11	6.324E-11
W	5.055E-11	2.621E-09	2.557E-09	1.738E-09	8.799E-10	4.680E-10	2.856E-10	1.916E-10	1.371E-10	1.028E-10	7.993E-11
WNW	2.641E-09	2.565E-09	7.054E-09	4.868E-09	2.984E-09	1.500E-09	8.860E-10	5.817E-10	4.199E-10	3.135E-10	2.455E-10
NW	4.495E-09	3.903E-09	3.682E-09	5.451E-09	3.358E-09	1.673E-09	9.885E-10	6.545E-10	4.708E-10	3.613E-10	2.924E-10
NNW	9.383E-09	7.374E-09	5.884E-09	3.842E-09	2.821E-09	1.513E-09	9.402E-10	7.394E-10	5.378E-10	4.182E-10	3.431E-10
N	1.564E-08	1.208E-08	9.318E-09	5.887E-09	2.653E-09	1.572E-09	1.043E-09	7.419E-10	5.528E-10	4.262E-10	3.373E-10
NNE	5.916E-09	4.740E-09	3.923E-09	2.648E-09	1.269E-09	7.729E-10	5.206E-10	3.732E-10	2.792E-10	2.156E-10	1.707E-10
NE	1.232E-09	1.102E-09	1.085E-09	8.342E-10	4.423E-10	2.807E-10	1.931E-10	1.399E-10	1.053E-10	8.149E-11	6.453E-11
ENE	3.139E-11	1.883E-10	4.010E-10	4.153E-10	2.594E-10	1.739E-10	1.229E-10	9.026E-11	6.836E-11	5.306E-11	4.202E-11
E	5.783E-10	6.737E-10	8.736E-10	7.762E-10	4.498E-10	2.946E-10	2.058E-10	1.503E-10	1.135E-10	8.802E-11	6.970E-11
ESE	2.463E-09	2.196E-09	2.151E-09	1.649E-09	8.723E-10	5.531E-10	3.803E-10	2.756E-10	2.073E-10	1.605E-10	1.271E-10
SE	3.037E-09	2.844E-09	2.971E-09	2.370E-09	1.288E-09	8.245E-10	5.697E-10	4.139E-10	3.118E-10	2.414E-10	1.912E-10
SSE	4.658E-09	4.186E-09	4.144E-09	3.199E-09	1.700E-09	1.080E-09	7.434E-10	5.390E-10	4.055E-10	3.139E-10	2.486E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.637E-10	1.501E-10	9.623E-11	5.262E-11	3.288E-11	2.692E-11	1.927E-11	1.446E-11	1.142E-11	9.115E-12	7.440E-12
SSW	1.460E-10	8.473E-11	5.465E-11	3.005E-11	2.136E-11	1.516E-11	1.087E-11	8.160E-12	6.408E-12	5.119E-12	4.178E-12
SW	5.974E-11	4.180E-11	2.842E-11	1.638E-11	1.032E-11	7.449E-12	5.439E-12	4.084E-12	3.175E-12	2.537E-12	2.070E-12
WSW	5.137E-11	3.970E-11	2.774E-11	1.737E-11	1.051E-11	7.049E-12	5.132E-12	3.854E-12	2.996E-12	2.394E-12	1.954E-12
W	6.408E-11	2.849E-11	2.981E-11	1.766E-11	1.193E-11	8.135E-12	5.829E-12	4.377E-12	3.403E-12	2.719E-12	2.219E-12
WNW	2.023E-10	1.019E-10	6.583E-11	3.633E-11	2.577E-11	1.805E-11	1.300E-11	9.768E-12	7.719E-12	6.166E-12	5.033E-12
NW	2.482E-10	1.414E-10	9.817E-11	6.249E-11	3.809E-11	2.550E-11	1.813E-11	1.361E-11	1.067E-11	8.525E-12	6.958E-12
NNW	2.948E-10	1.749E-10	1.239E-10	7.448E-11	4.792E-11	3.229E-11	2.250E-11	1.672E-11	1.300E-11	1.039E-11	8.478E-12
N	2.728E-10	1.305E-10	8.049E-11	4.349E-11	6.584E-11	4.360E-11	3.124E-11	2.346E-11	1.825E-11	1.458E-11	1.190E-11
NNE	1.379E-10	1.756E-10	1.097E-10	5.753E-11	3.523E-11	2.357E-11	1.683E-11	1.258E-11	9.749E-12	7.766E-12	6.325E-12
NE	5.205E-11	1.075E-10	6.695E-11	3.498E-11	2.139E-11	1.430E-11	1.015E-11	7.523E-12	5.851E-12	4.725E-12	3.857E-12
ENE	3.384E-11	4.539E-11	3.380E-11	2.096E-11	1.341E-11	8.870E-12	6.214E-12	4.256E-12	3.304E-12	2.636E-12	2.150E-12
E	5.617E-11	5.325E-11	3.724E-11	2.201E-11	1.396E-11	9.297E-12	6.574E-12	4.859E-12	3.732E-12	3.180E-12	2.590E-12
ESE	1.025E-10	9.287E-11	6.459E-11	3.806E-11	2.423E-11	1.622E-11	1.153E-11	8.575E-12	6.611E-12	5.257E-12	4.276E-12
SE	1.542E-10	7.325E-11	4.482E-11	2.379E-11	1.467E-11	1.019E-11	7.675E-12	1.364E-11	1.052E-11	8.377E-12	6.830E-12
SSE	2.005E-10	2.261E-10	1.383E-10	7.079E-11	4.301E-11	2.881E-11	2.062E-11	1.546E-11	1.200E-11	9.578E-12	7.812E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.460E-09	1.827E-09	8.131E-10	4.517E-10	3.130E-10	1.514E-10	5.354E-11	2.545E-11	1.468E-11	9.177E-12
SSW	1.856E-09	1.003E-09	4.497E-10	2.824E-10	1.826E-10	8.497E-11	3.166E-11	1.510E-11	8.266E-12	5.152E-12
SW	5.802E-10	5.716E-10	2.620E-10	1.265E-10	7.459E-11	3.984E-11	1.636E-11	7.410E-12	4.125E-12	2.553E-12
WSW	6.709E-10	5.980E-10	2.262E-10	1.088E-10	6.405E-11	3.698E-11	1.663E-11	7.205E-12	3.893E-12	2.409E-12
W	2.207E-09	8.876E-10	2.966E-10	1.396E-10	8.083E-11	3.699E-11	1.781E-11	8.224E-12	4.421E-12	2.737E-12
WNW	5.085E-09	2.743E-09	9.281E-10	4.256E-10	2.496E-10	1.082E-10	3.819E-11	1.809E-11	9.912E-12	6.207E-12
NW	4.518E-09	3.075E-09	1.038E-09	4.816E-10	2.964E-10	1.459E-10	5.958E-11	2.591E-11	1.378E-11	8.581E-12
NNW	5.307E-09	2.467E-09	1.013E-09	5.499E-10	3.475E-10	1.789E-10	7.367E-11	3.254E-11	1.695E-11	1.045E-11
N	8.407E-09	2.892E-09	1.064E-09	5.586E-10	3.398E-10	1.399E-10	6.165E-11	4.459E-11	2.370E-11	1.467E-11
NNE	3.538E-09	1.355E-09	5.289E-10	2.819E-10	1.719E-10	1.379E-10	5.921E-11	2.398E-11	1.272E-11	7.820E-12
NE	9.773E-10	4.575E-10	1.952E-10	1.061E-10	6.493E-11	7.714E-11	3.604E-11	1.453E-11	7.636E-12	4.737E-12
ENE	3.601E-10	2.561E-10	1.234E-10	6.879E-11	4.226E-11	3.767E-11	2.046E-11	9.018E-12	4.453E-12	2.654E-12
E	7.859E-10	4.533E-10	2.073E-10	1.143E-10	7.012E-11	4.678E-11	2.182E-11	9.452E-12	4.920E-12	3.125E-12
ESE	1.938E-09	9.030E-10	3.845E-10	2.090E-10	1.279E-10	8.244E-11	3.781E-11	1.648E-11	8.672E-12	5.295E-12
SE	2.676E-09	1.322E-09	5.753E-10	3.141E-10	1.924E-10	7.860E-11	2.441E-11	1.038E-11	1.075E-11	8.440E-12
SSE	3.733E-09	1.758E-09	7.514E-10	4.088E-10	2.501E-10	1.814E-10	7.346E-11	2.932E-11	1.561E-11	9.642E-12

ERP ELEVATED STACK RELEASES - JAN-JUN 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	7.4E-08	7.4E-08	7.3E-08	3.8E-09
A	Site Boundary	SSW	.82	4.1E-08	4.1E-08	4.1E-08	2.0E-09
A	Site Boundary	SW	.97	5.8E-08	5.8E-08	5.8E-08	6.5E-10
A	Site Boundary	WSW	.93	5.9E-08	5.9E-08	5.9E-08	8.8E-10
A	Site Boundary	W	.91	1.5E-07	1.5E-07	1.5E-07	1.9E-09
A	Site Boundary	WNW	.94	2.8E-07	2.8E-07	2.8E-07	5.5E-09
A	Site Boundary	NW	.81	1.7E-07	1.7E-07	1.7E-07	3.5E-09
A	Site Boundary	NNW	.69	1.1E-07	1.1E-07	1.1E-07	6.2E-09
A	Site Boundary	N	.67	1.2E-07	1.2E-07	1.2E-07	1.0E-08
A	Site Boundary	NNE	.60	6.7E-08	6.7E-08	6.6E-08	4.3E-09
A	Site Boundary	NE	.62	1.3E-08	1.3E-08	1.2E-08	1.1E-09
A	Site Boundary	ENE	.59	1.5E-09	1.5E-09	1.5E-09	2.6E-10
A	Site Boundary	E	.53	4.5E-09	4.5E-09	4.5E-09	6.9E-10
A	Site Boundary	ESE	.54	1.9E-08	1.9E-08	1.8E-08	2.2E-09
A	Site Boundary	SE	.65	3.0E-08	3.0E-08	3.0E-08	2.9E-09
A	Site Boundary	SSE	.81	6.8E-08	6.8E-08	6.7E-08	3.9E-09
A	Nearest Res	SW	1.30	9.2E-08	9.2E-08	9.1E-08	9.9E-10
A	Nearest Res	WSW	1.30	1.2E-07	1.2E-07	1.2E-07	8.6E-10
A	Nearest Res	W	1.00	1.6E-07	1.6E-07	1.6E-07	1.7E-09
A	Nearest Res	WNW	1.70	2.7E-07	2.6E-07	2.6E-07	2.2E-09
A	Nearest Res	NW	.90	2.2E-07	2.2E-07	2.2E-07	6.2E-09
A	Nearest Res	NNW	1.90	1.8E-07	1.7E-07	1.7E-07	1.7E-09
A	Nearest Res	N	3.00	5.3E-08	5.2E-08	5.1E-08	7.4E-10
A	Nearest Res	ENE	1.70	1.6E-08	1.6E-08	1.6E-08	2.2E-10
A	Nearest Res	E	1.90	2.2E-08	2.2E-08	2.1E-08	3.2E-10
A	Nearest Res	ESE	2.30	3.2E-08	3.2E-08	3.1E-08	4.4E-10
A	Nearest Res	SE	3.20	3.1E-08	3.1E-08	3.0E-08	3.7E-10
A	Nearest Cow	NNW	3.50	1.1E-07	1.1E-07	1.1E-07	5.4E-10
A	Nearest Garde	SW	2.20	5.8E-08	5.7E-08	5.6E-08	3.3E-10
A	Nearest Garde	WSW	1.90	8.8E-08	8.7E-08	8.6E-08	3.9E-10
A	Nearest Garde	WNW	2.40	1.4E-07	1.4E-07	1.4E-07	9.8E-10
A	Nearest Garde	ESE	3.00	2.5E-08	2.4E-08	2.4E-08	2.8E-10
A	Nearest Garde	SE	3.50	2.8E-08	2.8E-08	2.7E-08	3.1E-10
A	MAXIMUM CHI/Q	S	1.50	9.0E-08	9.0E-08	8.8E-08	1.8E-09
A	MAXIMUM CHI/Q	SSW	1.50	5.7E-08	5.7E-08	5.7E-08	9.9E-10
A	MAXIMUM CHI/Q	SW	1.50	1.0E-07	9.9E-08	9.8E-08	7.5E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.3E-07	1.3E-07	1.3E-07	6.5E-10
A	MAXIMUM CHI/Q	W	1.00	1.6E-07	1.6E-07	1.6E-07	1.7E-09
A	MAXIMUM CHI/Q	WNW	1.50	3.3E-07	3.3E-07	3.3E-07	3.0E-09
A	MAXIMUM CHI/Q	NW	1.50	4.5E-07	4.5E-07	4.4E-07	3.4E-09
A	MAXIMUM CHI/Q	NNW	1.50	1.8E-07	1.8E-07	1.8E-07	2.8E-09
A	MAXIMUM CHI/Q	N	.50	1.2E-07	1.2E-07	1.2E-07	1.2E-08
A	MAXIMUM CHI/Q	NNE	.75	8.1E-08	8.1E-08	7.9E-08	3.9E-09
A	MAXIMUM CHI/Q	NE	7.50	2.8E-08	2.8E-08	2.7E-08	1.1E-10
A	MAXIMUM CHI/Q	ENE	1.50	1.6E-08	1.6E-08	1.6E-08	2.6E-10
A	MAXIMUM CHI/Q	E	1.50	2.3E-08	2.3E-08	2.3E-08	4.5E-10
A	MAXIMUM CHI/Q	ESE	1.50	4.3E-08	4.3E-08	4.2E-08	8.7E-10
A	MAXIMUM CHI/Q	SE	1.50	5.7E-08	5.7E-08	5.6E-08	1.3E-09
A	MAXIMUM CHI/Q	SSE	1.50	7.5E-08	7.5E-08	7.4E-08	1.7E-09

Atmospheric Diffusion Estimates

Elevated Releases

July-September 2005

B300

ERP ELEVATED STACK RELEASES - JUL-SEP 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.380E-10	4.546E-08	8.151E-08	7.736E-08	6.341E-08	5.059E-08	4.063E-08	3.319E-08	2.763E-08	3.131E-08	3.323E-08
SSW	2.689E-10	1.994E-08	4.241E-08	4.881E-08	4.866E-08	4.177E-08	3.473E-08	3.766E-08	3.879E-08	3.395E-08	3.014E-08
SW	3.288E-11	4.152E-09	2.808E-08	6.238E-08	1.069E-07	7.474E-08	5.531E-08	4.289E-08	3.449E-08	2.853E-08	2.415E-08
WSW	2.064E-10	1.745E-08	6.564E-08	1.186E-07	1.801E-07	1.135E-07	7.864E-08	5.821E-08	4.521E-08	3.640E-08	3.013E-08
W	1.955E-09	9.503E-08	2.391E-07	2.606E-07	2.244E-07	1.409E-07	9.811E-08	7.322E-08	5.738E-08	4.662E-08	3.893E-08
WNW	1.126E-09	6.619E-08	2.244E-07	3.314E-07	3.859E-07	2.360E-07	1.608E-07	1.240E-07	9.992E-08	7.963E-08	6.539E-08
NW	5.232E-09	4.767E-08	1.477E-07	2.823E-07	4.654E-07	2.755E-07	1.837E-07	1.354E-07	1.051E-07	8.306E-08	6.775E-08
NNW	1.419E-07	1.907E-07	2.171E-07	2.231E-07	2.632E-07	2.527E-07	2.344E-07	2.112E-07	1.913E-07	1.511E-07	1.233E-07
N	3.609E-07	4.118E-07	3.493E-07	2.411E-07	1.571E-07	1.209E-07	9.790E-08	8.005E-08	6.706E-08	5.728E-08	4.972E-08
NNE	9.700E-09	7.921E-08	1.145E-07	1.043E-07	8.787E-08	7.275E-08	6.017E-08	5.034E-08	4.277E-08	3.688E-08	3.226E-08
NE	9.865E-11	1.111E-08	2.455E-08	2.926E-08	3.167E-08	2.859E-08	2.450E-08	2.085E-08	1.787E-08	1.549E-08	1.359E-08
ENE	7.032E-11	4.933E-09	1.027E-08	1.226E-08	1.392E-08	1.330E-08	1.197E-08	1.058E-08	9.356E-09	8.315E-09	7.448E-09
E	1.384E-10	1.092E-08	1.982E-08	1.926E-08	1.653E-08	1.356E-08	1.112E-08	9.273E-09	7.878E-09	6.813E-09	5.987E-09
ESE	6.517E-11	4.159E-09	7.900E-09	8.730E-09	9.018E-09	8.069E-09	6.904E-09	5.877E-09	5.040E-09	4.370E-09	3.834E-09
SE	3.001E-11	1.891E-09	6.858E-09	1.148E-08	1.485E-08	1.385E-08	1.193E-08	1.013E-08	8.625E-09	7.417E-09	6.447E-09
SSE	6.548E-16	5.334E-10	8.531E-09	1.687E-08	2.260E-08	2.136E-08	1.866E-08	1.606E-08	1.386E-08	1.207E-08	1.062E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.925E-08	1.885E-08	1.219E-08	6.960E-09	4.891E-09	3.710E-09	2.892E-09	2.346E-09	1.976E-09	1.696E-09	1.471E-09
SSW	2.793E-08	2.138E-08	1.387E-08	7.955E-09	5.636E-09	4.218E-09	3.288E-09	2.667E-09	2.226E-09	1.899E-09	1.648E-09
SW	2.272E-08	1.833E-08	1.214E-08	7.142E-09	5.142E-09	3.953E-09	3.181E-09	2.590E-09	2.168E-09	1.855E-09	1.614E-09
WSW	2.665E-08	1.762E-08	1.263E-08	7.910E-09	5.350E-09	3.959E-09	3.100E-09	2.522E-09	2.111E-09	1.806E-09	1.571E-09
W	3.321E-08	1.894E-08	1.463E-08	1.078E-08	8.764E-09	6.615E-09	5.214E-09	4.268E-09	3.592E-09	3.088E-09	2.698E-09
WNW	5.573E-08	3.181E-08	2.195E-08	1.364E-08	9.461E-09	7.125E-09	5.678E-09	4.665E-09	3.916E-09	3.350E-09	2.915E-09
NW	5.727E-08	3.160E-08	2.143E-08	1.291E-08	8.711E-09	6.434E-09	5.105E-09	4.162E-09	3.478E-09	2.970E-09	2.580E-09
NNW	1.054E-07	6.025E-08	3.931E-08	2.276E-08	1.552E-08	1.155E-08	9.168E-09	7.544E-09	6.430E-09	5.540E-09	4.825E-09
N	4.393E-08	2.788E-08	2.317E-08	1.856E-08	1.550E-08	1.274E-08	1.005E-08	8.201E-09	6.873E-09	5.884E-09	5.124E-09
NNE	3.566E-08	5.374E-08	3.494E-08	2.015E-08	1.371E-08	1.019E-08	8.011E-09	6.541E-09	5.491E-09	4.708E-09	4.104E-09
NE	1.500E-08	2.224E-08	1.442E-08	8.275E-09	5.607E-09	4.155E-09	3.287E-09	2.694E-09	2.270E-09	1.942E-09	1.689E-09
ENE	8.457E-09	1.479E-08	9.913E-09	5.926E-09	4.118E-09	3.107E-09	2.607E-09	2.221E-09	1.871E-09	1.609E-09	1.406E-09
E	6.633E-09	1.095E-08	7.249E-09	4.262E-09	2.931E-09	2.194E-09	1.733E-09	1.420E-09	1.225E-09	1.070E-09	9.331E-10
ESE	4.006E-09	4.873E-09	3.218E-09	1.881E-09	1.286E-09	9.584E-10	7.538E-10	6.156E-10	5.166E-10	4.427E-10	3.857E-10
SE	5.664E-09	3.453E-09	2.608E-09	1.795E-09	1.291E-09	1.004E-09	8.221E-10	6.963E-10	5.821E-10	4.972E-10	4.318E-10
SSE	1.173E-08	1.540E-08	9.980E-09	5.719E-09	3.867E-09	2.860E-09	2.238E-09	1.821E-09	1.524E-09	1.303E-09	1.133E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.166E-08	6.081E-08	4.031E-08	3.062E-08	3.119E-08	1.820E-08	7.202E-09	3.698E-09	2.361E-09	1.696E-09
SSW	4.026E-08	4.563E-08	3.778E-08	3.663E-08	3.045E-08	1.950E-08	8.240E-09	4.224E-09	2.676E-09	1.903E-09
SW	3.801E-08	8.270E-08	5.553E-08	3.462E-08	2.492E-08	1.656E-08	7.365E-09	3.961E-09	2.598E-09	1.859E-09
WSW	7.847E-08	1.369E-07	7.977E-08	4.557E-08	3.070E-08	1.741E-08	7.821E-09	3.986E-09	2.531E-09	1.809E-09
W	2.166E-07	1.953E-07	9.957E-08	5.781E-08	3.909E-08	2.019E-08	1.074E-08	6.627E-09	4.281E-09	3.093E-09
WNW	2.368E-07	3.072E-07	1.661E-07	9.905E-08	6.603E-08	3.274E-08	1.363E-08	7.169E-09	4.669E-09	3.357E-09
NW	1.853E-07	3.403E-07	1.889E-07	1.054E-07	6.840E-08	3.278E-08	1.294E-08	6.510E-09	4.171E-09	2.976E-09
NNW	2.139E-07	2.496E-07	2.300E-07	1.817E-07	1.249E-07	6.097E-08	2.322E-08	1.165E-08	7.584E-09	5.539E-09
N	3.151E-07	1.597E-07	9.691E-08	6.704E-08	4.981E-08	2.936E-08	1.823E-08	1.240E-08	8.223E-09	5.896E-09
NNE	1.021E-07	8.481E-08	5.960E-08	4.269E-08	3.489E-08	4.137E-08	2.057E-08	1.026E-08	6.561E-09	4.716E-09
NE	2.366E-08	2.977E-08	2.413E-08	1.782E-08	1.468E-08	1.715E-08	8.454E-09	4.195E-09	2.702E-09	1.945E-09
ENE	9.970E-09	1.328E-08	1.177E-08	9.310E-09	8.078E-09	1.121E-08	6.008E-09	3.176E-09	2.198E-09	1.611E-09
E	1.759E-08	1.582E-08	1.103E-08	7.871E-09	6.471E-09	8.347E-09	4.334E-09	2.206E-09	1.435E-09	1.065E-09
ESE	7.437E-09	8.532E-09	6.804E-09	5.024E-09	4.057E-09	3.945E-09	1.914E-09	9.641E-10	6.174E-10	4.435E-10
SE	7.807E-09	1.365E-08	1.172E-08	8.594E-09	6.444E-09	3.569E-09	1.751E-09	1.008E-09	6.888E-10	4.981E-10
SSE	1.046E-08	2.077E-08	1.834E-08	1.381E-08	1.146E-08	1.217E-08	5.843E-09	2.880E-09	1.827E-09	1.305E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.378E-10	4.543E-08	8.143E-08	7.726E-08	6.327E-08	5.044E-08	4.047E-08	3.303E-08	2.747E-08	3.110E-08	3.298E-08
SSW	2.688E-10	1.993E-08	4.236E-08	4.873E-08	4.853E-08	4.162E-08	3.457E-08	3.745E-08	3.854E-08	3.369E-08	2.988E-08
SW	3.286E-11	4.148E-09	2.805E-08	6.227E-08	1.066E-07	7.445E-08	5.504E-08	4.264E-08	3.425E-08	2.830E-08	2.392E-08
WSW	2.063E-10	1.743E-08	6.555E-08	1.184E-07	1.795E-07	1.130E-07	7.820E-08	5.781E-08	4.484E-08	3.606E-08	2.982E-08
W	1.954E-09	9.496E-08	2.388E-07	2.601E-07	2.238E-07	1.404E-07	9.767E-08	7.281E-08	5.700E-08	4.626E-08	3.858E-08
WNW	1.126E-09	6.613E-08	2.241E-07	3.309E-07	3.848E-07	2.351E-07	1.600E-07	1.232E-07	9.923E-08	7.899E-08	6.480E-08
NW	5.231E-09	4.764E-08	1.476E-07	2.819E-07	4.644E-07	2.747E-07	1.830E-07	1.348E-07	1.045E-07	8.255E-08	6.728E-08
NNW	1.419E-07	1.906E-07	2.169E-07	2.228E-07	2.626E-07	2.519E-07	2.335E-07	2.102E-07	1.902E-07	1.501E-07	1.223E-07
N	3.608E-07	4.116E-07	3.490E-07	2.408E-07	1.568E-07	1.206E-07	9.756E-08	7.971E-08	6.672E-08	5.695E-08	4.940E-08
NNE	9.697E-09	7.915E-08	1.143E-07	1.042E-07	8.761E-08	7.247E-08	5.987E-08	5.004E-08	4.246E-08	3.658E-08	3.196E-08
NE	9.859E-11	1.110E-08	2.451E-08	2.918E-08	3.153E-08	2.841E-08	2.430E-08	2.065E-08	1.767E-08	1.529E-08	1.340E-08
ENE	7.030E-11	4.930E-09	1.026E-08	1.224E-08	1.388E-08	1.325E-08	1.191E-08	1.052E-08	9.288E-09	8.246E-09	7.378E-09
E	1.383E-10	1.091E-08	1.979E-08	1.922E-08	1.648E-08	1.351E-08	1.107E-08	9.217E-09	7.822E-09	6.757E-09	5.931E-09
ESE	6.516E-11	4.157E-09	7.891E-09	8.712E-09	8.982E-09	8.021E-09	6.851E-09	5.822E-09	4.985E-09	4.315E-09	3.781E-09
SE	3.000E-11	1.890E-09	6.849E-09	1.145E-08	1.479E-08	1.377E-08	1.185E-08	1.004E-08	8.542E-09	7.335E-09	6.367E-09
SSE	6.547E-16	5.331E-10	8.523E-09	1.684E-08	2.254E-08	2.128E-08	1.858E-08	1.597E-08	1.377E-08	1.198E-08	1.053E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.900E-08	1.857E-08	1.194E-08	6.743E-09	4.679E-09	3.504E-09	2.699E-09	2.163E-09	1.799E-09	1.525E-09	1.308E-09
SSW	2.766E-08	2.106E-08	1.359E-08	7.711E-09	5.405E-09	4.003E-09	3.088E-09	2.478E-09	2.048E-09	1.729E-09	1.485E-09
SW	2.248E-08	1.802E-08	1.187E-08	6.901E-09	4.910E-09	3.730E-09	2.966E-09	2.387E-09	1.976E-09	1.671E-09	1.437E-09
WSW	2.634E-08	1.728E-08	1.230E-08	7.585E-09	5.057E-09	3.688E-09	2.847E-09	2.283E-09	1.884E-09	1.588E-09	1.362E-09
W	3.288E-08	1.864E-08	1.429E-08	1.036E-08	8.271E-09	6.147E-09	4.773E-09	3.850E-09	3.191E-09	2.702E-09	2.326E-09
WNW	5.517E-08	3.131E-08	2.148E-08	1.319E-08	9.040E-09	6.727E-09	5.296E-09	4.299E-09	3.566E-09	3.015E-09	2.593E-09
NW	5.683E-08	3.124E-08	2.110E-08	1.261E-08	8.444E-09	6.188E-09	4.872E-09	3.941E-09	3.268E-09	2.769E-09	2.387E-09
NNW	1.045E-07	5.943E-08	3.859E-08	2.213E-08	1.494E-08	1.101E-08	8.657E-09	7.053E-09	5.949E-09	5.074E-09	4.377E-09
N	4.361E-08	2.758E-08	2.284E-08	1.815E-08	1.503E-08	1.225E-08	9.589E-09	7.767E-09	6.459E-09	5.488E-09	4.743E-09
NNE	3.529E-08	5.283E-08	3.415E-08	1.946E-08	1.310E-08	9.625E-09	7.479E-09	6.038E-09	5.012E-09	4.249E-09	3.663E-09
NE	1.476E-08	2.178E-08	1.403E-08	7.948E-09	5.317E-09	3.890E-09	3.039E-09	2.460E-09	2.048E-09	1.730E-09	1.486E-09
ENE	8.367E-09	1.449E-08	9.646E-09	5.685E-09	3.894E-09	2.896E-09	2.393E-09	2.008E-09	1.667E-09	1.413E-09	1.218E-09
E	6.561E-09	1.073E-08	7.047E-09	4.084E-09	2.769E-09	2.043E-09	1.590E-09	1.285E-09	1.092E-09	9.407E-10	8.086E-10
ESE	3.947E-09	4.790E-09	3.147E-09	1.821E-09	1.233E-09	9.101E-10	7.092E-10	5.739E-10	4.773E-10	4.054E-10	3.501E-10
SE	5.585E-09	3.382E-09	2.538E-09	1.725E-09	1.226E-09	9.426E-10	7.626E-10	6.384E-10	5.274E-10	4.451E-10	3.821E-10
SSE	1.161E-08	1.508E-08	9.696E-09	5.473E-09	3.644E-09	2.654E-09	2.045E-09	1.638E-09	1.350E-09	1.136E-09	9.728E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.157E-08	6.068E-08	4.015E-08	3.044E-08	3.095E-08	1.794E-08	6.980E-09	3.495E-09	2.178E-09	1.526E-09
SSW	4.020E-08	4.550E-08	3.760E-08	3.638E-08	3.019E-08	1.921E-08	7.992E-09	4.011E-09	2.488E-09	1.733E-09
SW	3.795E-08	8.245E-08	5.526E-08	3.438E-08	2.469E-08	1.628E-08	7.120E-09	3.739E-09	2.396E-09	1.674E-09
WSW	7.834E-08	1.364E-07	7.933E-08	4.520E-08	3.038E-08	1.708E-08	7.508E-09	3.717E-09	2.292E-09	1.592E-09
W	2.163E-07	1.948E-07	9.912E-08	5.743E-08	3.874E-08	1.987E-08	1.030E-08	6.164E-09	3.863E-09	2.708E-09
WNW	2.364E-07	3.063E-07	1.653E-07	9.837E-08	6.544E-08	3.224E-08	1.319E-08	6.771E-09	4.305E-09	3.022E-09
NW	1.851E-07	3.395E-07	1.881E-07	1.048E-07	6.793E-08	3.242E-08	1.265E-08	6.263E-09	3.951E-09	2.775E-09
NNW	2.137E-07	2.490E-07	2.291E-07	1.806E-07	1.239E-07	6.017E-08	2.259E-08	1.112E-08	7.091E-09	5.075E-09
N	3.148E-07	1.594E-07	9.657E-08	6.671E-08	4.950E-08	2.904E-08	1.780E-08	1.193E-08	7.789E-09	5.500E-09
NNE	1.020E-07	8.456E-08	5.929E-08	4.238E-08	3.456E-08	4.063E-08	1.990E-08	9.692E-09	6.059E-09	4.258E-09
NE	2.361E-08	2.962E-08	2.394E-08	1.762E-08	1.446E-08	1.678E-08	8.130E-09	3.930E-09	2.468E-09	1.734E-09
ENE	9.956E-09	1.324E-08	1.171E-08	9.243E-09	8.001E-09	1.098E-08	5.769E-09	2.961E-09	1.988E-09	1.416E-09
E	1.757E-08	1.577E-08	1.098E-08	7.815E-09	6.409E-09	8.166E-09	4.158E-09	2.055E-09	1.299E-09	9.367E-10
ESE	7.426E-09	8.495E-09	6.751E-09	4.969E-09	4.001E-09	3.872E-09	1.854E-09	9.160E-10	5.757E-10	4.062E-10
SE	7.792E-09	1.360E-08	1.164E-08	8.511E-09	6.364E-09	3.497E-09	1.684E-09	9.461E-10	6.316E-10	4.462E-10
SSE	1.044E-08	2.072E-08	1.826E-08	1.372E-08	1.136E-08	1.191E-08	5.598E-09	2.674E-09	1.644E-09	1.139E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.379E-10	4.505E-08	7.991E-08	7.570E-08	6.185E-08	4.912E-08	3.924E-08	3.189E-08	2.642E-08	2.998E-08	3.185E-08
SSW	2.689E-10	1.976E-08	4.171E-08	4.808E-08	4.778E-08	4.078E-08	3.369E-08	3.643E-08	3.746E-08	3.266E-08	2.891E-08
SW	3.288E-11	4.119E-09	2.790E-08	6.216E-08	1.057E-07	7.337E-08	5.402E-08	4.171E-08	3.343E-08	2.757E-08	2.327E-08
WSW	2.064E-10	1.729E-08	6.482E-08	1.176E-07	1.775E-07	1.110E-07	7.644E-08	5.630E-08	4.354E-08	3.492E-08	2.882E-08
W	1.955E-09	9.371E-08	2.360E-07	2.559E-07	2.188E-07	1.365E-07	9.457E-08	7.030E-08	5.491E-08	4.449E-08	3.706E-08
WNW	1.126E-09	6.566E-08	2.223E-07	3.273E-07	3.786E-07	2.296E-07	1.555E-07	1.194E-07	9.600E-08	7.613E-08	6.219E-08
NW	5.232E-09	4.724E-08	1.459E-07	2.795E-07	4.592E-07	2.698E-07	1.788E-07	1.313E-07	1.015E-07	7.990E-08	6.483E-08
NNW	1.419E-07	1.889E-07	2.129E-07	2.193E-07	2.591E-07	2.481E-07	2.298E-07	2.069E-07	1.873E-07	1.474E-07	1.196E-07
N	3.609E-07	4.080E-07	3.414E-07	2.343E-07	1.521E-07	1.169E-07	9.446E-08	7.703E-08	6.436E-08	5.484E-08	4.750E-08
NNE	9.699E-09	7.849E-08	1.121E-07	1.020E-07	8.574E-08	7.073E-08	5.823E-08	4.851E-08	4.104E-08	3.526E-08	3.074E-08
NE	9.863E-11	1.101E-08	2.412E-08	2.879E-08	3.108E-08	2.788E-08	2.374E-08	2.007E-08	1.710E-08	1.474E-08	1.287E-08
ENE	7.032E-11	4.889E-09	1.010E-08	1.208E-08	1.370E-08	1.306E-08	1.170E-08	1.032E-08	9.100E-09	8.069E-09	7.213E-09
E	1.384E-10	1.082E-08	1.942E-08	1.884E-08	1.613E-08	1.317E-08	1.075E-08	8.919E-09	7.545E-09	6.500E-09	5.693E-09
ESE	6.517E-11	4.122E-09	7.758E-09	8.581E-09	8.845E-09	7.867E-09	6.687E-09	5.656E-09	4.822E-09	4.159E-09	3.631E-09
SE	3.001E-11	1.875E-09	6.800E-09	1.141E-08	1.467E-08	1.357E-08	1.160E-08	9.771E-09	8.266E-09	7.063E-09	6.104E-09
SSE	6.548E-16	5.334E-10	8.529E-09	1.686E-08	2.240E-08	2.101E-08	1.824E-08	1.560E-08	1.340E-08	1.162E-08	1.018E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.796E-08	1.768E-08	1.106E-08	5.913E-09	3.861E-09	2.754E-09	2.047E-09	1.590E-09	1.289E-09	1.071E-09	9.025E-10
SSW	2.676E-08	2.018E-08	1.266E-08	6.785E-09	4.479E-09	3.215E-09	2.415E-09	1.894E-09	1.533E-09	1.271E-09	1.074E-09
SW	2.190E-08	1.747E-08	1.119E-08	6.127E-09	4.064E-09	2.917E-09	2.253E-09	1.771E-09	1.436E-09	1.192E-09	1.008E-09
WSW	2.545E-08	1.650E-08	1.147E-08	6.791E-09	4.380E-09	3.112E-09	2.350E-09	1.850E-09	1.502E-09	1.249E-09	1.058E-09
W	3.155E-08	1.784E-08	1.367E-08	9.513E-09	7.252E-09	5.258E-09	3.997E-09	3.167E-09	2.586E-09	2.161E-09	1.838E-09
WNW	5.273E-08	2.921E-08	1.951E-08	1.131E-08	7.233E-09	5.101E-09	3.894E-09	3.085E-09	2.504E-09	2.076E-09	1.755E-09
NW	5.451E-08	2.916E-08	1.913E-08	1.080E-08	6.882E-09	4.843E-09	3.699E-09	2.918E-09	2.365E-09	1.963E-09	1.660E-09
NNW	1.017E-07	5.637E-08	3.549E-08	1.908E-08	1.195E-08	8.275E-09	6.180E-09	4.854E-09	3.988E-09	3.326E-09	2.811E-09
N	4.187E-08	2.635E-08	2.188E-08	1.753E-08	1.429E-08	1.117E-08	8.539E-09	6.775E-09	5.531E-09	4.622E-09	3.934E-09
NNE	3.408E-08	5.161E-08	3.240E-08	1.750E-08	1.114E-08	7.822E-09	5.848E-09	4.564E-09	3.677E-09	3.034E-09	2.552E-09
NE	1.422E-08	2.121E-08	1.329E-08	7.156E-09	4.546E-09	3.189E-09	2.416E-09	1.913E-09	1.563E-09	1.298E-09	1.098E-09
ENE	8.209E-09	1.439E-08	9.310E-09	5.163E-09	3.287E-09	2.304E-09	1.811E-09	1.463E-09	1.184E-09	9.808E-10	8.277E-10
E	6.330E-09	1.057E-08	6.754E-09	3.693E-09	2.335E-09	1.628E-09	1.208E-09	9.357E-10	7.663E-10	6.386E-10	5.345E-10
ESE	3.795E-09	4.649E-09	2.972E-09	1.625E-09	1.030E-09	7.198E-10	5.349E-10	4.149E-10	3.322E-10	2.725E-10	2.279E-10
SE	5.334E-09	3.184E-09	2.375E-09	1.611E-09	1.144E-09	8.828E-10	7.184E-10	6.050E-10	4.978E-10	4.192E-10	3.590E-10
SSE	1.125E-08	1.474E-08	9.214E-09	4.937E-09	3.115E-09	2.172E-09	1.614E-09	1.253E-09	1.004E-09	8.251E-10	6.911E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.029E-08	5.927E-08	3.893E-08	2.934E-08	2.985E-08	1.702E-08	6.145E-09	2.767E-09	1.606E-09	1.073E-09
SSW	3.966E-08	4.473E-08	3.668E-08	3.534E-08	2.922E-08	1.830E-08	7.066E-09	3.232E-09	1.906E-09	1.276E-09
SW	3.784E-08	8.164E-08	5.426E-08	3.356E-08	2.404E-08	1.566E-08	6.335E-09	2.957E-09	1.781E-09	1.196E-09
WSW	7.772E-08	1.347E-07	7.761E-08	4.390E-08	2.938E-08	1.625E-08	6.759E-09	3.146E-09	1.861E-09	1.253E-09
W	2.132E-07	1.905E-07	9.604E-08	5.534E-08	3.722E-08	1.903E-08	9.432E-09	5.285E-09	3.183E-09	2.167E-09
WNW	2.342E-07	3.010E-07	1.608E-07	9.512E-08	6.282E-08	3.012E-08	1.132E-08	5.187E-09	3.095E-09	2.084E-09
NW	1.834E-07	3.351E-07	1.841E-07	1.018E-07	6.547E-08	3.033E-08	1.091E-08	4.929E-09	2.931E-09	1.970E-09
NNW	2.104E-07	2.454E-07	2.255E-07	1.777E-07	1.212E-07	5.717E-08	1.956E-08	8.416E-09	4.903E-09	3.332E-09
N	3.086E-07	1.547E-07	9.348E-08	6.435E-08	4.759E-08	2.781E-08	1.705E-08	1.095E-08	6.805E-09	4.636E-09
NNE	1.002E-07	8.268E-08	5.767E-08	4.097E-08	3.331E-08	3.918E-08	1.799E-08	7.917E-09	4.593E-09	3.046E-09
NE	2.328E-08	2.915E-08	2.338E-08	1.705E-08	1.393E-08	1.614E-08	7.359E-09	3.241E-09	1.923E-09	1.302E-09
ENE	9.824E-09	1.305E-08	1.151E-08	9.056E-09	7.836E-09	1.076E-08	5.251E-09	2.369E-09	1.456E-09	9.843E-10
E	1.725E-08	1.542E-08	1.066E-08	7.539E-09	6.168E-09	7.930E-09	3.770E-09	1.649E-09	9.490E-10	6.378E-10
ESE	7.316E-09	8.351E-09	6.589E-09	4.808E-09	3.848E-09	3.714E-09	1.660E-09	7.286E-10	4.177E-10	2.737E-10
SE	7.755E-09	1.346E-08	1.139E-08	8.238E-09	6.103E-09	3.302E-09	1.573E-09	8.867E-10	5.966E-10	4.202E-10
SSE	1.045E-08	2.055E-08	1.792E-08	1.335E-08	1.100E-08	1.151E-08	5.077E-09	2.200E-09	1.261E-09	8.286E-10

ERP ELEVATED STACK RELEASES - JUL-SEP 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	5.105E-09	4.150E-09	3.524E-09	2.431E-09	1.187E-09	7.290E-10	4.932E-10	3.543E-10	2.654E-10	2.161E-10	1.922E-10
SSW	2.177E-09	1.910E-09	1.830E-09	1.383E-09	7.240E-10	4.573E-10	3.138E-10	2.272E-10	2.107E-10	1.593E-10	1.247E-10
SW	3.086E-10	4.580E-10	6.956E-10	6.564E-10	7.496E-10	4.084E-10	2.531E-10	1.719E-10	1.242E-10	9.393E-11	7.351E-11
WSW	1.631E-09	1.427E-09	1.360E-09	1.615E-09	9.416E-10	5.076E-10	3.130E-10	2.119E-10	1.529E-10	1.155E-10	9.042E-11
W	1.910E-09	5.358E-09	4.341E-09	2.636E-09	1.192E-09	6.431E-10	3.967E-10	2.688E-10	1.942E-10	1.470E-10	1.153E-10
WNW	3.267E-09	2.877E-09	5.590E-09	4.290E-09	2.392E-09	1.217E-09	7.266E-10	4.878E-10	3.694E-10	2.838E-10	2.301E-10
NW	4.586E-09	3.821E-09	3.383E-09	4.595E-09	2.757E-09	1.375E-09	8.178E-10	5.478E-10	4.017E-10	3.162E-10	2.633E-10
NNW	1.727E-08	1.306E-08	9.640E-09	5.816E-09	3.659E-09	1.943E-09	1.197E-09	9.500E-10	7.095E-10	5.699E-10	4.841E-10
N	4.052E-08	2.990E-08	2.088E-08	1.181E-08	4.707E-09	2.618E-09	1.674E-09	1.166E-09	8.589E-10	6.591E-10	5.216E-10
NNE	7.209E-09	5.628E-09	4.433E-09	2.860E-09	1.315E-09	7.869E-10	5.249E-10	3.743E-10	2.793E-10	2.154E-10	1.705E-10
NE	8.252E-10	7.704E-10	8.014E-10	6.377E-10	3.459E-10	2.214E-10	1.529E-10	1.111E-10	8.368E-11	6.480E-11	5.131E-11
ENE	5.411E-10	4.592E-10	4.185E-10	3.052E-10	1.557E-10	9.736E-11	6.648E-11	4.800E-11	3.604E-11	2.788E-11	2.207E-11
E	1.070E-09	8.449E-10	6.806E-10	4.484E-10	2.103E-10	1.269E-10	8.505E-11	6.081E-11	4.543E-11	3.506E-11	2.776E-11
ESE	5.384E-10	4.429E-10	3.837E-10	2.692E-10	1.332E-10	8.229E-11	5.583E-11	4.018E-11	3.012E-11	2.328E-11	1.843E-11
SE	2.841E-10	3.112E-10	3.829E-10	3.325E-10	1.902E-10	1.240E-10	8.647E-11	6.310E-11	4.764E-11	3.692E-11	2.924E-11
SSE	4.895E-11	2.937E-10	6.254E-10	6.478E-10	4.046E-10	2.713E-10	1.916E-10	1.408E-10	1.066E-10	8.275E-11	6.553E-11

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.547E-10	1.063E-10	7.243E-11	4.207E-11	2.684E-11	1.899E-11	1.360E-11	1.020E-11	8.019E-12	6.390E-12	5.216E-12
SSW	1.006E-10	8.343E-11	5.925E-11	3.553E-11	2.091E-11	1.500E-11	1.075E-11	8.073E-12	6.302E-12	5.034E-12	4.109E-12
SW	5.942E-11	5.742E-11	4.189E-11	2.558E-11	1.634E-11	1.120E-11	7.392E-12	5.551E-12	4.316E-12	3.448E-12	2.814E-12
WSW	7.273E-11	5.587E-11	3.903E-11	2.474E-11	1.497E-11	1.004E-11	7.193E-12	5.401E-12	4.199E-12	3.354E-12	2.738E-12
W	9.293E-11	4.225E-11	5.453E-11	3.432E-11	2.140E-11	1.435E-11	1.028E-11	7.720E-12	6.003E-12	4.795E-12	3.914E-12
WNW	1.965E-10	1.134E-10	7.922E-11	4.689E-11	3.098E-11	2.072E-11	1.462E-11	1.098E-11	8.538E-12	6.820E-12	5.567E-12
NW	2.300E-10	1.439E-10	1.045E-10	6.357E-11	3.877E-11	2.597E-11	1.866E-11	1.401E-11	1.092E-11	8.721E-12	7.118E-12
NNW	4.298E-10	2.817E-10	2.091E-10	1.303E-10	8.458E-11	5.691E-11	3.691E-11	2.659E-11	2.078E-11	1.660E-11	1.355E-11
N	4.229E-10	2.038E-10	1.267E-10	6.977E-11	1.311E-10	7.862E-11	5.622E-11	4.222E-11	3.283E-11	2.622E-11	2.141E-11
NNE	1.378E-10	2.077E-10	1.318E-10	7.038E-11	4.338E-11	2.903E-11	2.071E-11	1.547E-11	1.197E-11	9.532E-12	7.759E-12
NE	4.138E-11	7.010E-11	4.451E-11	2.385E-11	1.474E-11	9.889E-12	7.033E-12	5.220E-12	4.062E-12	3.367E-12	2.748E-12
ENE	1.781E-11	4.139E-11	3.293E-11	2.143E-11	1.389E-11	9.190E-12	6.424E-12	3.750E-12	2.911E-12	2.323E-12	1.895E-12
E	2.243E-11	2.953E-11	2.215E-11	1.388E-11	8.969E-12	5.990E-12	4.236E-12	3.126E-12	2.393E-12	1.679E-12	1.365E-12
ESE	1.488E-11	1.807E-11	1.334E-11	8.250E-12	5.314E-12	3.547E-12	2.508E-12	1.852E-12	1.418E-12	1.121E-12	9.061E-13
SE	2.357E-11	1.118E-11	6.830E-12	3.605E-12	2.218E-12	1.534E-12	1.153E-12	1.533E-12	1.208E-12	9.828E-13	8.214E-13
SSE	5.278E-11	7.433E-11	4.661E-11	2.453E-11	1.503E-11	1.004E-11	7.161E-12	5.346E-12	4.137E-12	3.291E-12	2.677E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.177E-09	1.260E-09	5.005E-10	2.720E-10	1.854E-10	1.020E-10	4.205E-11	1.893E-11	1.034E-11	6.438E-12
SSW	1.649E-09	7.518E-10	3.174E-10	1.958E-10	1.260E-10	7.650E-11	3.430E-11	1.488E-11	8.163E-12	5.067E-12
SW	6.254E-10	5.772E-10	2.620E-10	1.263E-10	7.434E-11	5.096E-11	2.510E-11	1.105E-11	5.607E-12	3.470E-12
WSW	1.488E-09	8.984E-10	3.244E-10	1.555E-10	9.131E-11	5.213E-11	2.357E-11	1.022E-11	5.455E-12	3.376E-12
W	3.809E-09	1.269E-09	4.113E-10	1.975E-10	1.164E-10	5.897E-11	3.307E-11	1.460E-11	7.798E-12	4.826E-12
WNW	4.410E-09	2.291E-09	7.618E-10	3.706E-10	2.336E-10	1.167E-10	4.700E-11	2.102E-11	1.109E-11	6.865E-12
NW	4.019E-09	2.551E-09	8.585E-10	4.109E-10	2.666E-10	1.455E-10	6.165E-11	2.646E-11	1.416E-11	8.778E-12
NNW	8.701E-09	3.376E-09	1.297E-09	7.250E-10	4.894E-10	2.824E-10	1.275E-10	5.629E-11	2.733E-11	1.671E-11
N	1.885E-08	5.358E-09	1.722E-09	8.704E-10	5.258E-10	2.182E-10	1.097E-10	8.365E-11	4.264E-11	2.640E-11
NNE	4.000E-09	1.424E-09	5.345E-10	2.821E-10	1.717E-10	1.584E-10	7.202E-11	2.953E-11	1.563E-11	9.598E-12
NE	7.218E-10	3.554E-10	1.545E-10	8.432E-11	5.163E-11	5.234E-11	2.439E-11	1.004E-11	5.297E-12	3.344E-12
ENE	3.772E-10	1.630E-10	6.732E-11	3.635E-11	2.221E-11	3.239E-11	2.063E-11	9.337E-12	4.194E-12	2.339E-12
E	6.139E-10	2.261E-10	8.651E-11	4.587E-11	2.795E-11	2.467E-11	1.353E-11	6.082E-12	3.164E-12	1.774E-12
ESE	3.460E-10	1.408E-10	5.663E-11	3.039E-11	1.855E-11	1.526E-11	8.076E-12	3.603E-12	1.874E-12	1.129E-12
SE	3.446E-10	1.924E-10	8.714E-11	4.797E-11	2.942E-11	1.200E-11	3.705E-12	1.564E-12	1.301E-12	9.898E-13
SSE	5.616E-10	3.994E-10	1.925E-10	1.073E-10	6.591E-11	5.722E-11	2.521E-11	1.022E-11	5.404E-12	3.314E-12

ERP ELEVATED STACK RELEASES - JUL-SEP 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	8.2E-08	8.2E-08	8.0E-08	3.3E-09
A	Site Boundary	SSW	.82	4.5E-08	4.5E-08	4.4E-08	1.7E-09
A	Site Boundary	SW	.97	5.9E-08	5.9E-08	5.9E-08	6.8E-10
A	Site Boundary	WSW	.93	1.0E-07	1.0E-07	1.0E-07	1.3E-09
A	Site Boundary	W	.91	2.6E-07	2.6E-07	2.6E-07	3.1E-09
A	Site Boundary	WNW	.94	3.1E-07	3.1E-07	3.1E-07	4.8E-09
A	Site Boundary	NW	.81	1.8E-07	1.8E-07	1.8E-07	3.1E-09
A	Site Boundary	NNW	.69	2.1E-07	2.1E-07	2.0E-07	1.0E-08
A	Site Boundary	N	.67	3.6E-07	3.6E-07	3.6E-07	2.3E-08
A	Site Boundary	NNE	.60	9.7E-08	9.7E-08	9.6E-08	5.1E-09
A	Site Boundary	NE	.62	1.8E-08	1.8E-08	1.8E-08	7.7E-10
A	Site Boundary	ENE	.59	6.9E-09	6.9E-09	6.8E-09	4.4E-10
A	Site Boundary	E	.53	1.2E-08	1.2E-08	1.2E-08	8.2E-10
A	Site Boundary	ESE	.54	4.8E-09	4.8E-09	4.8E-09	4.3E-10
A	Site Boundary	SE	.65	4.3E-09	4.3E-09	4.3E-09	3.5E-10
A	Site Boundary	SSE	.81	1.1E-08	1.1E-08	1.1E-08	6.6E-10
A	Nearest Res	SW	1.30	9.4E-08	9.4E-08	9.3E-08	1.0E-09
A	Nearest Res	WSW	1.30	1.7E-07	1.6E-07	1.6E-07	1.3E-09
A	Nearest Res	W	1.00	2.6E-07	2.6E-07	2.6E-07	2.6E-09
A	Nearest Res	WNW	1.70	3.1E-07	3.1E-07	3.0E-07	1.8E-09
A	Nearest Res	NW	.90	2.3E-07	2.3E-07	2.2E-07	5.0E-09
A	Nearest Res	NNW	1.90	2.6E-07	2.6E-07	2.5E-07	2.2E-09
A	Nearest Res	N	3.00	8.0E-08	8.0E-08	7.7E-08	1.2E-09
A	Nearest Res	ENE	1.70	1.4E-08	1.4E-08	1.4E-08	1.3E-10
A	Nearest Res	E	1.90	1.4E-08	1.4E-08	1.4E-08	1.4E-10
A	Nearest Res	ESE	2.30	7.4E-09	7.3E-09	7.2E-09	6.5E-11
A	Nearest Res	SE	3.20	9.5E-09	9.4E-09	9.1E-09	5.6E-11
A	Nearest Cow	NNW	3.50	1.9E-07	1.9E-07	1.9E-07	7.1E-10
A	Nearest Garde	SW	2.20	6.6E-08	6.6E-08	6.5E-08	3.3E-10
A	Nearest Garde	WSW	1.90	1.2E-07	1.2E-07	1.2E-07	5.7E-10
A	Nearest Garde	WNW	2.40	1.7E-07	1.7E-07	1.7E-07	8.0E-10
A	Nearest Garde	ESE	3.00	5.9E-09	5.8E-09	5.7E-09	4.0E-11
A	Nearest Garde	SE	3.50	8.6E-09	8.5E-09	8.3E-09	4.8E-11
A	MAXIMUM CHI/Q	S	.75	8.2E-08	8.1E-08	8.0E-08	3.5E-09
A	MAXIMUM CHI/Q	SSW	1.00	4.9E-08	4.9E-08	4.8E-08	1.4E-09
A	MAXIMUM CHI/Q	SW	1.50	1.1E-07	1.1E-07	1.1E-07	7.5E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.8E-07	1.8E-07	1.8E-07	9.4E-10
A	MAXIMUM CHI/Q	W	1.00	2.6E-07	2.6E-07	2.6E-07	2.6E-09
A	MAXIMUM CHI/Q	WNW	1.50	3.9E-07	3.8E-07	3.8E-07	2.4E-09
A	MAXIMUM CHI/Q	NW	1.50	4.7E-07	4.6E-07	4.6E-07	2.8E-09
A	MAXIMUM CHI/Q	NNW	1.50	2.6E-07	2.6E-07	2.6E-07	3.7E-09
A	MAXIMUM CHI/Q	N	.50	4.0E-07	4.0E-07	3.9E-07	3.0E-08
A	MAXIMUM CHI/Q	NNE	.75	1.1E-07	1.1E-07	1.1E-07	4.4E-09
A	MAXIMUM CHI/Q	NE	1.50	3.2E-08	3.2E-08	3.1E-08	3.5E-10
A	MAXIMUM CHI/Q	ENE	7.50	1.5E-08	1.4E-08	1.4E-08	4.1E-11
A	MAXIMUM CHI/Q	E	.75	2.0E-08	2.0E-08	1.9E-08	6.8E-10
A	MAXIMUM CHI/Q	ESE	1.50	9.0E-09	9.0E-09	8.8E-09	1.3E-10
A	MAXIMUM CHI/Q	SE	1.50	1.5E-08	1.5E-08	1.5E-08	1.9E-10
A	MAXIMUM CHI/Q	SSE	1.50	2.3E-08	2.3E-08	2.2E-08	4.0E-10

Atmospheric Diffusion Estimates

Elevated Releases

October-December 2005

ERP ELEVATED STACK RELEASES - OCT-DEC 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.011E-09	2.690E-08	4.675E-08	5.387E-08	5.390E-08	4.583E-08	3.766E-08	3.104E-08	2.592E-08	2.906E-08	3.115E-08
SSW	3.168E-11	4.179E-09	1.804E-08	2.910E-08	3.430E-08	3.002E-08	2.478E-08	2.552E-08	2.507E-08	2.163E-08	1.906E-08
SW	5.034E-16	6.380E-10	2.568E-08	6.707E-08	1.005E-07	6.541E-08	4.573E-08	3.390E-08	2.628E-08	2.111E-08	1.742E-08
WSW	2.399E-16	2.772E-10	1.331E-08	3.762E-08	6.624E-08	4.294E-08	3.071E-08	2.349E-08	1.882E-08	1.560E-08	1.327E-08
W	1.060E-13	1.152E-08	5.838E-08	7.885E-08	7.362E-08	4.526E-08	3.076E-08	2.244E-08	1.723E-08	1.374E-08	1.129E-08
WNW	1.557E-14	5.534E-09	8.946E-08	1.802E-07	2.490E-07	1.553E-07	1.070E-07	8.336E-08	6.774E-08	5.419E-08	4.464E-08
NW	1.516E-10	1.095E-08	9.160E-08	2.144E-07	3.343E-07	1.980E-07	1.321E-07	9.759E-08	7.585E-08	6.001E-08	4.898E-08
NNW	3.521E-10	2.168E-08	7.141E-08	1.140E-07	1.457E-07	1.289E-07	1.106E-07	9.608E-08	8.681E-08	6.850E-08	5.582E-08
N	2.798E-08	7.123E-08	8.980E-08	8.502E-08	7.420E-08	6.249E-08	5.184E-08	4.256E-08	3.556E-08	3.023E-08	2.609E-08
NNE	1.358E-09	2.257E-08	4.565E-08	5.442E-08	5.783E-08	5.189E-08	4.452E-08	3.799E-08	3.265E-08	2.835E-08	2.490E-08
NE	4.056E-16	3.912E-10	6.735E-09	1.388E-08	1.942E-08	1.868E-08	1.647E-08	1.424E-08	1.233E-08	1.076E-08	9.481E-09
ENE	9.942E-11	8.583E-09	2.099E-08	2.604E-08	2.724E-08	2.384E-08	2.006E-08	1.687E-08	1.435E-08	1.235E-08	1.078E-08
E	1.016E-10	7.447E-09	1.894E-08	2.461E-08	2.700E-08	2.419E-08	2.066E-08	1.757E-08	1.506E-08	1.306E-08	1.146E-08
ESE	3.388E-11	4.124E-09	2.952E-08	5.069E-08	6.027E-08	5.337E-08	4.466E-08	3.724E-08	3.136E-08	2.676E-08	2.314E-08
SE	1.031E-10	7.668E-09	4.084E-08	6.779E-08	8.067E-08	7.215E-08	6.096E-08	5.124E-08	4.345E-08	3.729E-08	3.240E-08
SSE	2.701E-09	2.595E-08	6.063E-08	7.969E-08	8.488E-08	7.332E-08	6.076E-08	5.040E-08	4.230E-08	3.601E-08	3.110E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.783E-08	2.034E-08	1.338E-08	7.811E-09	5.689E-09	4.418E-09	3.464E-09	2.823E-09	2.399E-09	2.072E-09	1.804E-09
SSW	1.766E-08	1.492E-08	9.753E-09	5.645E-09	4.106E-09	3.104E-09	2.425E-09	1.970E-09	1.648E-09	1.408E-09	1.224E-09
SW	1.558E-08	1.192E-08	7.867E-09	4.606E-09	3.383E-09	2.644E-09	2.154E-09	1.752E-09	1.467E-09	1.255E-09	1.092E-09
WSW	1.256E-08	1.147E-08	9.455E-09	6.655E-09	4.601E-09	3.462E-09	2.747E-09	2.261E-09	1.912E-09	1.650E-09	1.446E-09
W	9.488E-09	5.109E-09	3.602E-09	2.324E-09	1.712E-09	1.265E-09	9.863E-10	7.999E-10	6.677E-10	5.697E-10	4.945E-10
WNW	3.818E-08	2.206E-08	1.534E-08	9.627E-09	6.694E-09	5.052E-09	4.035E-09	3.320E-09	2.791E-09	2.388E-09	2.079E-09
NW	4.145E-08	2.297E-08	1.562E-08	9.437E-09	6.355E-09	4.688E-09	3.717E-09	3.027E-09	2.528E-09	2.157E-09	1.873E-09
NNW	4.777E-08	2.757E-08	1.794E-08	1.034E-08	7.033E-09	5.225E-09	4.153E-09	3.422E-09	2.927E-09	2.522E-09	2.195E-09
N	2.288E-08	1.404E-08	1.126E-08	9.016E-09	8.007E-09	6.870E-09	5.433E-09	4.438E-09	3.720E-09	3.186E-09	2.775E-09
NNE	2.751E-08	4.123E-08	2.686E-08	1.553E-08	1.058E-08	7.874E-09	6.193E-09	5.060E-09	4.251E-09	3.647E-09	3.181E-09
NE	1.055E-08	1.861E-08	1.220E-08	7.110E-09	4.867E-09	3.636E-09	2.909E-09	2.404E-09	2.039E-09	1.751E-09	1.528E-09
ENE	1.140E-08	1.638E-08	1.086E-08	6.404E-09	4.414E-09	3.312E-09	2.755E-09	2.330E-09	1.959E-09	1.681E-09	1.467E-09
E	1.232E-08	1.601E-08	1.051E-08	6.117E-09	4.178E-09	3.112E-09	2.449E-09	2.001E-09	1.725E-09	1.507E-09	1.312E-09
ESE	2.319E-08	2.178E-08	1.419E-08	8.156E-09	5.515E-09	4.076E-09	3.186E-09	2.588E-09	2.163E-09	1.847E-09	1.604E-09
SE	2.848E-08	1.748E-08	1.340E-08	9.322E-09	6.670E-09	5.132E-09	4.138E-09	3.446E-09	2.873E-09	2.448E-09	2.122E-09
SSE	3.234E-08	3.224E-08	2.060E-08	1.158E-08	7.738E-09	5.670E-09	4.404E-09	3.560E-09	2.963E-09	2.522E-09	2.184E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.550E-08	5.030E-08	3.719E-08	2.858E-08	2.930E-08	1.891E-08	8.105E-09	4.376E-09	2.844E-09	2.069E-09
SSW	1.988E-08	3.124E-08	2.648E-08	2.389E-08	1.930E-08	1.323E-08	5.874E-09	3.100E-09	1.977E-09	1.411E-09
SW	3.851E-08	7.749E-08	4.624E-08	2.649E-08	1.783E-08	1.093E-08	4.787E-09	2.645E-09	1.758E-09	1.257E-09
WSW	2.122E-08	4.952E-08	3.108E-08	1.893E-08	1.370E-08	1.082E-08	6.364E-09	3.479E-09	2.267E-09	1.652E-09
W	5.706E-08	6.218E-08	3.130E-08	1.739E-08	1.135E-08	5.412E-09	2.336E-09	1.273E-09	8.028E-10	5.709E-10
WNW	1.112E-07	1.921E-07	1.104E-07	6.704E-08	4.507E-08	2.266E-08	9.593E-09	5.083E-09	3.323E-09	2.393E-09
NW	1.283E-07	2.471E-07	1.359E-07	7.603E-08	4.946E-08	2.381E-08	9.442E-09	4.744E-09	3.034E-09	2.162E-09
NNW	7.928E-08	1.312E-07	1.097E-07	8.248E-08	5.660E-08	2.778E-08	1.056E-08	5.279E-09	3.442E-09	2.521E-09
N	8.354E-08	7.140E-08	5.097E-08	3.553E-08	2.613E-08	1.477E-08	9.066E-09	6.598E-09	4.449E-09	3.192E-09
NNE	4.442E-08	5.443E-08	4.388E-08	3.254E-08	2.689E-08	3.179E-08	1.585E-08	7.924E-09	5.075E-09	3.653E-09
NE	8.502E-09	1.786E-08	1.616E-08	1.228E-08	1.026E-08	1.397E-08	7.244E-09	3.673E-09	2.409E-09	1.754E-09
ENE	2.048E-08	2.546E-08	1.979E-08	1.431E-08	1.148E-08	1.282E-08	6.509E-09	3.383E-09	2.310E-09	1.684E-09
E	1.891E-08	2.522E-08	2.037E-08	1.501E-08	1.225E-08	1.274E-08	6.231E-09	3.131E-09	2.024E-09	1.499E-09
ESE	3.328E-08	5.507E-08	4.401E-08	3.129E-08	2.423E-08	1.872E-08	8.322E-09	4.104E-09	2.597E-09	1.851E-09
SE	4.545E-08	7.402E-08	6.006E-08	4.333E-08	3.240E-08	1.811E-08	9.050E-09	5.145E-09	3.426E-09	2.453E-09
SSE	6.139E-08	7.858E-08	5.996E-08	4.222E-08	3.301E-08	2.709E-08	1.188E-08	5.715E-09	3.574E-09	2.527E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.010E-09	2.689E-08	4.671E-08	5.380E-08	5.377E-08	4.567E-08	3.750E-08	3.088E-08	2.577E-08	2.886E-08	3.091E-08
SSW	3.166E-11	4.174E-09	1.802E-08	2.905E-08	3.419E-08	2.990E-08	2.465E-08	2.535E-08	2.486E-08	2.142E-08	1.884E-08
SW	5.032E-16	6.376E-10	2.565E-08	6.695E-08	1.003E-07	6.516E-08	4.551E-08	3.370E-08	2.611E-08	2.095E-08	1.727E-08
WSW	2.398E-16	2.770E-10	1.329E-08	3.756E-08	6.609E-08	4.281E-08	3.059E-08	2.338E-08	1.871E-08	1.550E-08	1.317E-08
W	1.060E-13	1.151E-08	5.832E-08	7.873E-08	7.346E-08	4.512E-08	3.064E-08	2.234E-08	1.714E-08	1.366E-08	1.121E-08
WNW	1.557E-14	5.530E-09	8.935E-08	1.799E-07	2.483E-07	1.547E-07	1.065E-07	8.287E-08	6.725E-08	5.374E-08	4.422E-08
NW	1.516E-10	1.094E-08	9.152E-08	2.141E-07	3.334E-07	1.973E-07	1.315E-07	9.709E-08	7.540E-08	5.960E-08	4.860E-08
NNW	3.520E-10	2.167E-08	7.135E-08	1.138E-07	1.454E-07	1.285E-07	1.102E-07	9.561E-08	8.629E-08	6.803E-08	5.538E-08
N	2.797E-08	7.120E-08	8.975E-08	8.494E-08	7.409E-08	6.237E-08	5.170E-08	4.243E-08	3.544E-08	3.011E-08	2.597E-08
NNE	1.358E-09	2.255E-08	4.561E-08	5.434E-08	5.769E-08	5.172E-08	4.433E-08	3.780E-08	3.245E-08	2.816E-08	2.471E-08
NE	4.056E-16	3.910E-10	6.728E-09	1.386E-08	1.936E-08	1.861E-08	1.639E-08	1.416E-08	1.225E-08	1.068E-08	9.409E-09
ENE	9.938E-11	8.576E-09	2.097E-08	2.600E-08	2.718E-08	2.377E-08	1.999E-08	1.681E-08	1.428E-08	1.229E-08	1.072E-08
E	1.016E-10	7.443E-09	1.892E-08	2.458E-08	2.695E-08	2.413E-08	2.060E-08	1.751E-08	1.500E-08	1.300E-08	1.140E-08
ESE	3.386E-11	4.122E-09	2.950E-08	5.064E-08	6.019E-08	5.327E-08	4.456E-08	3.713E-08	3.125E-08	2.665E-08	2.304E-08
SE	1.031E-10	7.665E-09	4.081E-08	6.772E-08	8.054E-08	7.198E-08	6.077E-08	5.103E-08	4.324E-08	3.708E-08	3.219E-08
SSE	2.701E-09	2.594E-08	6.059E-08	7.960E-08	8.472E-08	7.314E-08	6.058E-08	5.021E-08	4.212E-08	3.584E-08	3.093E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.759E-08	2.005E-08	1.312E-08	7.582E-09	5.461E-09	4.193E-09	3.253E-09	2.623E-09	2.204E-09	1.884E-09	1.622E-09
SSW	1.743E-08	1.462E-08	9.490E-09	5.418E-09	3.889E-09	2.901E-09	2.236E-09	1.793E-09	1.480E-09	1.248E-09	1.071E-09
SW	1.543E-08	1.175E-08	7.714E-09	4.472E-09	3.251E-09	2.514E-09	2.027E-09	1.633E-09	1.353E-09	1.146E-09	9.869E-10
WSW	1.246E-08	1.131E-08	9.272E-09	6.458E-09	4.419E-09	3.291E-09	2.585E-09	2.106E-09	1.762E-09	1.505E-09	1.306E-09
W	9.416E-09	5.051E-09	3.546E-09	2.269E-09	1.657E-09	1.214E-09	9.389E-10	7.552E-10	6.252E-10	5.290E-10	4.554E-10
WNW	3.778E-08	2.169E-08	1.499E-08	9.276E-09	6.364E-09	4.738E-09	3.731E-09	3.028E-09	2.511E-09	2.121E-09	1.821E-09
NW	4.109E-08	2.268E-08	1.536E-08	9.201E-09	6.144E-09	4.495E-09	3.535E-09	2.855E-09	2.365E-09	2.002E-09	1.724E-09
NNW	4.735E-08	2.720E-08	1.761E-08	1.006E-08	6.774E-09	4.985E-09	3.924E-09	3.202E-09	2.711E-09	2.313E-09	1.994E-09
N	2.276E-08	1.394E-08	1.114E-08	8.874E-09	7.826E-09	6.666E-09	5.239E-09	4.253E-09	3.544E-09	3.016E-09	2.611E-09
NNE	2.727E-08	4.065E-08	2.636E-08	1.510E-08	1.019E-08	7.509E-09	5.850E-09	4.734E-09	3.939E-09	3.347E-09	2.892E-09
NE	1.047E-08	1.839E-08	1.201E-08	6.946E-09	4.719E-09	3.498E-09	2.777E-09	2.277E-09	1.916E-09	1.633E-09	1.415E-09
ENE	1.132E-08	1.623E-08	1.072E-08	6.281E-09	4.302E-09	3.207E-09	2.650E-09	2.226E-09	1.859E-09	1.585E-09	1.375E-09
E	1.225E-08	1.585E-08	1.037E-08	5.997E-09	4.068E-09	3.010E-09	2.352E-09	1.909E-09	1.634E-09	1.417E-09	1.225E-09
ESE	2.307E-08	2.156E-08	1.399E-08	7.983E-09	5.356E-09	3.926E-09	3.044E-09	2.452E-09	2.033E-09	1.721E-09	1.482E-09
SE	2.827E-08	1.728E-08	1.319E-08	9.087E-09	6.444E-09	4.914E-09	3.928E-09	3.242E-09	2.680E-09	2.263E-09	1.944E-09
SSE	3.214E-08	3.186E-08	2.027E-08	1.131E-08	7.487E-09	5.440E-09	4.189E-09	3.357E-09	2.770E-09	2.336E-09	2.005E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.545E-08	5.018E-08	3.703E-08	2.840E-08	2.907E-08	1.864E-08	7.870E-09	4.155E-09	2.644E-09	1.882E-09
SSW	1.984E-08	3.114E-08	2.633E-08	2.369E-08	1.908E-08	1.296E-08	5.643E-09	2.898E-09	1.800E-09	1.251E-09
SW	3.845E-08	7.726E-08	4.603E-08	2.631E-08	1.768E-08	1.077E-08	4.649E-09	2.516E-09	1.639E-09	1.148E-09
WSW	2.119E-08	4.940E-08	3.096E-08	1.882E-08	1.359E-08	1.066E-08	6.177E-09	3.309E-09	2.112E-09	1.508E-09
W	5.699E-08	6.204E-08	3.118E-08	1.730E-08	1.127E-08	5.352E-09	2.281E-09	1.222E-09	7.582E-10	5.302E-10
WNW	1.110E-07	1.915E-07	1.099E-07	6.657E-08	4.466E-08	2.229E-08	9.251E-09	4.769E-09	3.032E-09	2.125E-09
NW	1.281E-07	2.464E-07	1.353E-07	7.558E-08	4.908E-08	2.351E-08	9.210E-09	4.551E-09	2.863E-09	2.007E-09
NNW	7.919E-08	1.309E-07	1.092E-07	8.199E-08	5.616E-08	2.742E-08	1.028E-08	5.038E-09	3.221E-09	2.313E-09
N	8.349E-08	7.129E-08	5.084E-08	3.540E-08	2.601E-08	1.466E-08	8.912E-09	6.405E-09	4.265E-09	3.022E-09
NNE	4.437E-08	5.429E-08	4.369E-08	3.234E-08	2.668E-08	3.133E-08	1.542E-08	7.560E-09	4.750E-09	3.354E-09
NE	8.489E-09	1.781E-08	1.609E-08	1.220E-08	1.018E-08	1.379E-08	7.081E-09	3.535E-09	2.282E-09	1.636E-09
ENE	2.045E-08	2.540E-08	1.972E-08	1.424E-08	1.141E-08	1.269E-08	6.388E-09	3.276E-09	2.207E-09	1.588E-09
E	1.889E-08	2.517E-08	2.031E-08	1.495E-08	1.219E-08	1.262E-08	6.112E-09	3.029E-09	1.931E-09	1.410E-09
ESE	3.326E-08	5.499E-08	4.391E-08	3.118E-08	2.412E-08	1.854E-08	8.151E-09	3.954E-09	2.461E-09	1.725E-09
SE	4.540E-08	7.389E-08	5.986E-08	4.312E-08	3.219E-08	1.790E-08	8.824E-09	4.928E-09	3.224E-09	2.269E-09
SSE	6.134E-08	7.844E-08	5.978E-08	4.204E-08	3.283E-08	2.677E-08	1.160E-08	5.485E-09	3.371E-09	2.342E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.011E-09	2.666E-08	4.604E-08	5.318E-08	5.301E-08	4.476E-08	3.651E-08	2.989E-08	2.480E-08	2.775E-08	2.975E-08
SSW	3.167E-11	4.146E-09	1.790E-08	2.895E-08	3.386E-08	2.937E-08	2.402E-08	2.454E-08	2.396E-08	2.055E-08	1.802E-08
SW	5.033E-16	6.379E-10	2.568E-08	6.703E-08	9.923E-08	6.381E-08	4.418E-08	3.248E-08	2.500E-08	1.995E-08	1.637E-08
WSW	2.399E-16	2.772E-10	1.330E-08	3.756E-08	6.546E-08	4.214E-08	2.999E-08	2.285E-08	1.825E-08	1.510E-08	1.281E-08
W	1.060E-13	1.152E-08	5.805E-08	7.794E-08	7.232E-08	4.419E-08	2.989E-08	2.171E-08	1.661E-08	1.321E-08	1.082E-08
WNW	1.557E-14	5.533E-09	8.933E-08	1.788E-07	2.452E-07	1.517E-07	1.039E-07	8.070E-08	6.540E-08	5.207E-08	4.267E-08
NW	1.516E-10	1.086E-08	9.113E-08	2.129E-07	3.291E-07	1.930E-07	1.278E-07	9.395E-08	7.271E-08	5.722E-08	4.643E-08
NNW	3.521E-10	2.150E-08	7.060E-08	1.131E-07	1.437E-07	1.261E-07	1.076E-07	9.315E-08	8.406E-08	6.598E-08	5.345E-08
N	2.798E-08	7.059E-08	8.817E-08	8.353E-08	7.274E-08	6.098E-08	5.032E-08	4.111E-08	3.419E-08	2.893E-08	2.487E-08
NNE	1.358E-09	2.237E-08	4.495E-08	5.370E-08	5.691E-08	5.081E-08	4.337E-08	3.684E-08	3.153E-08	2.727E-08	2.388E-08
NE	4.056E-16	3.911E-10	6.733E-09	1.388E-08	1.925E-08	1.838E-08	1.610E-08	1.385E-08	1.193E-08	1.037E-08	9.106E-09
ENE	9.941E-11	8.508E-09	2.069E-08	2.572E-08	2.681E-08	2.333E-08	1.952E-08	1.634E-08	1.382E-08	1.186E-08	1.031E-08
E	1.016E-10	7.384E-09	1.869E-08	2.435E-08	2.662E-08	2.373E-08	2.016E-08	1.706E-08	1.456E-08	1.258E-08	1.100E-08
ESE	3.387E-11	4.103E-09	2.943E-08	5.059E-08	5.968E-08	5.243E-08	4.355E-08	3.607E-08	3.020E-08	2.563E-08	2.206E-08
SE	1.031E-10	7.618E-09	4.065E-08	6.759E-08	7.984E-08	7.086E-08	5.944E-08	4.965E-08	4.186E-08	3.575E-08	3.092E-08
SSE	2.701E-09	2.573E-08	5.992E-08	7.898E-08	8.371E-08	7.180E-08	5.909E-08	4.869E-08	4.063E-08	3.441E-08	2.956E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.650E-08	1.908E-08	1.215E-08	6.646E-09	4.500E-09	3.287E-09	2.460E-09	1.922E-09	1.574E-09	1.319E-09	1.115E-09
SSW	1.665E-08	1.394E-08	8.820E-09	4.782E-09	3.248E-09	2.353E-09	1.771E-09	1.391E-09	1.127E-09	9.351E-10	7.905E-10
SW	1.459E-08	1.107E-08	7.078E-09	3.890E-09	2.663E-09	1.957E-09	1.533E-09	1.205E-09	9.771E-10	8.114E-10	6.866E-10
WSW	1.215E-08	1.093E-08	8.727E-09	5.791E-09	3.823E-09	2.765E-09	2.119E-09	1.690E-09	1.388E-09	1.165E-09	9.963E-10
W	9.071E-09	4.834E-09	3.353E-09	2.035E-09	1.411E-09	1.003E-09	7.553E-10	5.939E-10	4.818E-10	4.003E-10	3.390E-10
WNW	3.630E-08	2.034E-08	1.368E-08	7.997E-09	5.120E-09	3.631E-09	2.774E-09	2.201E-09	1.788E-09	1.483E-09	1.253E-09
NW	3.907E-08	2.100E-08	1.383E-08	7.852E-09	4.995E-09	3.511E-09	2.680E-09	2.112E-09	1.711E-09	1.419E-09	1.200E-09
NNW	4.550E-08	2.548E-08	1.602E-08	8.621E-09	5.420E-09	3.767E-09	2.829E-09	2.230E-09	1.838E-09	1.534E-09	1.296E-09
N	2.173E-08	1.316E-08	1.051E-08	8.433E-09	7.344E-09	6.029E-09	4.626E-09	3.677E-09	3.006E-09	2.515E-09	2.143E-09
NNE	2.642E-08	3.968E-08	2.497E-08	1.358E-08	8.734E-09	6.188E-09	4.662E-09	3.664E-09	2.970E-09	2.465E-09	2.085E-09
NE	1.015E-08	1.797E-08	1.138E-08	6.252E-09	4.053E-09	2.891E-09	2.229E-09	1.785E-09	1.471E-09	1.230E-09	1.047E-09
ENE	1.090E-08	1.578E-08	1.012E-08	5.568E-09	3.543E-09	2.484E-09	1.946E-09	1.577E-09	1.284E-09	1.070E-09	9.087E-10
E	1.185E-08	1.543E-08	9.794E-09	5.318E-09	3.352E-09	2.334E-09	1.731E-09	1.341E-09	1.101E-09	9.224E-10	7.765E-10
ESE	2.207E-08	2.063E-08	1.302E-08	7.021E-09	4.424E-09	3.079E-09	2.282E-09	1.768E-09	1.414E-09	1.159E-09	9.687E-10
SE	2.707E-08	1.635E-08	1.244E-08	8.564E-09	6.068E-09	4.634E-09	3.714E-09	3.067E-09	2.500E-09	2.086E-09	1.773E-09
SSE	3.072E-08	3.042E-08	1.877E-08	9.948E-09	6.299E-09	4.411E-09	3.291E-09	2.565E-09	2.065E-09	1.703E-09	1.433E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.491E-08	4.938E-08	3.606E-08	2.738E-08	2.796E-08	1.765E-08	6.916E-09	3.279E-09	1.943E-09	1.319E-09
SSW	1.975E-08	3.077E-08	2.566E-08	2.283E-08	1.826E-08	1.227E-08	4.997E-09	2.359E-09	1.399E-09	9.384E-10
SW	3.849E-08	7.633E-08	4.473E-08	2.521E-08	1.677E-08	1.008E-08	4.053E-09	1.976E-09	1.212E-09	8.143E-10
WSW	2.119E-08	4.889E-08	3.037E-08	1.836E-08	1.324E-08	1.022E-08	5.569E-09	2.789E-09	1.697E-09	1.169E-09
W	5.655E-08	6.107E-08	3.043E-08	1.677E-08	1.088E-08	5.118E-09	2.050E-09	1.013E-09	5.973E-10	4.018E-10
WNW	1.105E-07	1.889E-07	1.074E-07	6.469E-08	4.309E-08	2.093E-08	7.982E-09	3.685E-09	2.207E-09	1.488E-09
NW	1.274E-07	2.428E-07	1.317E-07	7.288E-08	4.690E-08	2.183E-08	7.911E-09	3.575E-09	2.121E-09	1.424E-09
NNW	7.858E-08	1.291E-07	1.067E-07	7.977E-08	5.422E-08	2.573E-08	8.844E-09	3.833E-09	2.252E-09	1.536E-09
N	8.220E-08	6.991E-08	4.948E-08	3.416E-08	2.491E-08	1.389E-08	8.410E-09	5.819E-09	3.693E-09	2.523E-09
NNE	4.382E-08	5.349E-08	4.274E-08	3.142E-08	2.582E-08	3.020E-08	1.396E-08	6.257E-09	3.685E-09	2.474E-09
NE	8.499E-09	1.767E-08	1.581E-08	1.189E-08	9.866E-09	1.330E-08	6.415E-09	2.936E-09	1.792E-09	1.233E-09
ENE	2.022E-08	2.502E-08	1.926E-08	1.379E-08	1.099E-08	1.218E-08	5.679E-09	2.551E-09	1.571E-09	1.074E-09
E	1.870E-08	2.483E-08	1.987E-08	1.452E-08	1.178E-08	1.213E-08	5.439E-09	2.364E-09	1.361E-09	9.213E-10
ESE	3.321E-08	5.444E-08	4.293E-08	3.014E-08	2.312E-08	1.757E-08	7.199E-09	3.119E-09	1.780E-09	1.164E-09
SE	4.528E-08	7.312E-08	5.857E-08	4.176E-08	3.093E-08	1.699E-08	8.315E-09	4.649E-09	3.036E-09	2.093E-09
SSE	6.079E-08	7.736E-08	5.832E-08	4.056E-08	3.143E-08	2.531E-08	1.029E-08	4.466E-09	2.582E-09	1.710E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.886E-09	2.551E-09	2.468E-09	1.877E-09	9.874E-10	6.247E-10	4.291E-10	3.108E-10	2.338E-10	1.850E-10	1.716E-10
SSW	3.169E-10	5.591E-10	9.211E-10	8.923E-10	5.405E-10	3.591E-10	2.525E-10	1.851E-10	1.745E-10	1.321E-10	1.034E-10
SW	5.240E-11	3.144E-10	6.694E-10	6.933E-10	8.507E-10	4.641E-10	2.877E-10	1.954E-10	1.412E-10	1.068E-10	8.354E-11
WSW	2.227E-11	1.336E-10	2.845E-10	6.632E-10	3.647E-10	1.984E-10	1.227E-10	8.322E-11	6.008E-11	4.540E-11	3.552E-11
W	2.096E-11	1.158E-09	1.119E-09	7.207E-10	3.382E-10	1.840E-10	1.138E-10	7.716E-11	5.571E-11	4.210E-11	3.293E-11
WNW	7.074E-11	4.244E-10	3.204E-09	2.361E-09	1.529E-09	7.719E-10	4.600E-10	3.087E-10	2.321E-10	1.818E-10	1.508E-10
NW	1.390E-09	1.625E-09	2.112E-09	4.420E-09	2.859E-09	1.420E-09	8.357E-10	5.501E-10	3.930E-10	2.991E-10	2.400E-10
NNW	3.175E-09	2.937E-09	3.021E-09	2.388E-09	2.320E-09	1.256E-09	7.805E-10	6.244E-10	4.481E-10	3.426E-10	2.761E-10
N	1.032E-08	8.210E-09	6.707E-09	4.476E-09	2.123E-09	1.288E-09	8.655E-10	6.197E-10	4.633E-10	3.577E-10	2.832E-10
NNE	2.876E-09	2.488E-09	2.334E-09	1.738E-09	9.008E-10	5.667E-10	3.881E-10	2.807E-10	2.109E-10	1.632E-10	1.292E-10
NE	3.537E-11	2.122E-10	4.518E-10	4.680E-10	2.923E-10	1.960E-10	1.384E-10	1.017E-10	7.703E-11	5.979E-11	4.735E-11
ENE	8.067E-10	8.128E-10	9.226E-10	7.703E-10	4.307E-10	2.786E-10	1.935E-10	1.409E-10	1.063E-10	8.235E-11	6.521E-11
E	8.120E-10	8.443E-10	9.896E-10	8.396E-10	4.740E-10	3.077E-10	2.140E-10	1.560E-10	1.177E-10	9.121E-11	7.222E-11
ESE	4.388E-10	1.290E-09	2.477E-09	2.504E-09	1.547E-09	1.034E-09	7.294E-10	5.354E-10	4.053E-10	3.146E-10	2.491E-10
SE	1.227E-09	1.993E-09	3.166E-09	3.032E-09	1.827E-09	1.211E-09	8.511E-10	6.236E-10	4.717E-10	3.659E-10	2.898E-10
SSE	3.236E-09	3.306E-09	3.809E-09	3.203E-09	1.799E-09	1.165E-09	8.098E-10	5.901E-10	4.451E-10	3.449E-10	2.731E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.380E-10	9.726E-11	6.651E-11	3.865E-11	2.456E-11	1.741E-11	1.244E-11	9.319E-12	7.319E-12	5.847E-12	4.774E-12
SSW	8.406E-11	5.130E-11	3.355E-11	1.866E-11	1.306E-11	9.115E-12	6.533E-12	4.908E-12	3.888E-12	3.106E-12	2.535E-12
SW	6.747E-11	4.545E-11	3.058E-11	1.744E-11	1.095E-11	7.989E-12	5.924E-12	4.448E-12	3.459E-12	2.763E-12	2.255E-12
WSW	2.855E-11	3.340E-11	2.511E-11	1.495E-11	9.047E-12	6.066E-12	4.347E-12	3.264E-12	2.538E-12	2.027E-12	1.655E-12
W	2.647E-11	1.184E-11	1.965E-11	1.207E-11	7.227E-12	4.846E-12	3.472E-12	2.607E-12	2.027E-12	1.619E-12	1.322E-12
WNW	1.315E-10	8.173E-11	5.911E-11	3.586E-11	2.316E-11	1.491E-11	1.044E-11	7.840E-12	6.167E-12	4.926E-12	4.021E-12
NW	2.023E-10	1.126E-10	7.720E-11	4.972E-11	3.026E-11	2.026E-11	1.452E-11	1.090E-11	8.499E-12	6.789E-12	5.541E-12
NNW	2.335E-10	1.316E-10	9.083E-11	5.316E-11	3.376E-11	2.259E-11	1.667E-11	1.265E-11	9.927E-12	7.931E-12	6.474E-12
N	2.288E-10	1.092E-10	6.718E-11	3.608E-11	6.699E-11	4.269E-11	3.059E-11	2.297E-11	1.786E-11	1.427E-11	1.164E-11
NNE	1.043E-10	1.895E-10	1.173E-10	6.087E-11	3.714E-11	2.485E-11	1.775E-11	1.328E-11	1.030E-11	8.209E-12	6.689E-12
NE	3.813E-11	8.729E-11	5.375E-11	2.772E-11	1.688E-11	1.130E-11	8.123E-12	6.100E-12	4.743E-12	3.809E-12	3.109E-12
ENE	5.257E-11	7.607E-11	5.745E-11	3.604E-11	2.317E-11	1.536E-11	1.078E-11	7.102E-12	5.529E-12	4.423E-12	3.615E-12
E	5.822E-11	8.721E-11	6.615E-11	4.162E-11	2.677E-11	1.773E-11	1.243E-11	9.095E-12	6.915E-12	5.118E-12	4.171E-12
ESE	2.007E-10	1.762E-10	1.206E-10	6.993E-11	4.406E-11	2.929E-11	2.070E-11	1.530E-11	1.176E-11	9.309E-12	7.548E-12
SE	2.335E-10	1.106E-10	6.748E-11	3.553E-11	2.166E-11	1.489E-11	1.110E-11	1.911E-11	1.473E-11	1.170E-11	9.533E-12
SSE	2.202E-10	2.511E-10	1.533E-10	7.823E-11	4.749E-11	3.182E-11	2.278E-11	1.708E-11	1.327E-11	1.059E-11	8.643E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.224E-09	1.024E-09	4.340E-10	2.372E-10	1.631E-10	9.265E-11	3.858E-11	1.733E-11	9.450E-12	5.886E-12
SSW	8.279E-10	5.380E-10	2.540E-10	1.614E-10	1.047E-10	5.069E-11	1.948E-11	9.134E-12	4.984E-12	3.126E-12
SW	6.011E-10	6.439E-10	2.978E-10	1.436E-10	8.447E-11	4.373E-11	1.748E-11	7.953E-12	4.493E-12	2.781E-12
WSW	4.193E-10	3.571E-10	1.271E-10	6.110E-11	3.587E-11	2.864E-11	1.458E-11	6.173E-12	3.297E-12	2.040E-12
W	9.506E-10	3.546E-10	1.179E-10	5.665E-11	3.326E-11	1.856E-11	1.160E-11	4.931E-12	2.633E-12	1.630E-12
WNW	2.212E-09	1.377E-09	4.826E-10	2.348E-10	1.528E-10	8.273E-11	3.538E-11	1.532E-11	7.945E-12	4.959E-12
NW	3.030E-09	2.566E-09	8.774E-10	4.021E-10	2.435E-10	1.168E-10	4.717E-11	2.063E-11	1.102E-11	6.833E-12
NNW	2.721E-09	1.862E-09	8.448E-10	4.583E-10	2.800E-10	1.361E-10	5.291E-11	2.320E-11	1.276E-11	7.983E-12
N	6.049E-09	2.275E-09	8.798E-10	4.678E-10	2.851E-10	1.171E-10	5.673E-11	4.433E-11	2.320E-11	1.436E-11
NNE	2.104E-09	9.384E-10	3.928E-10	2.127E-10	1.300E-10	1.385E-10	6.287E-11	2.529E-11	1.342E-11	8.265E-12
NE	4.058E-10	2.886E-10	1.391E-10	7.751E-11	4.762E-11	6.146E-11	2.869E-11	1.152E-11	6.161E-12	3.826E-12
ENE	8.305E-10	4.386E-10	1.952E-10	1.071E-10	6.561E-11	6.257E-11	3.508E-11	1.561E-11	7.552E-12	4.452E-12
E	8.906E-10	4.813E-10	2.158E-10	1.185E-10	7.266E-11	7.141E-11	4.047E-11	1.802E-11	9.218E-12	5.300E-12
ESE	2.225E-09	1.532E-09	7.331E-10	4.079E-10	2.506E-10	1.569E-10	6.970E-11	2.979E-11	1.549E-11	9.382E-12
SE	2.846E-09	1.821E-09	8.561E-10	4.748E-10	2.915E-10	1.187E-10	3.647E-11	1.518E-11	1.515E-11	1.180E-11
SSE	3.427E-09	1.829E-09	8.167E-10	4.484E-10	2.748E-10	2.008E-10	8.125E-11	3.238E-11	1.726E-11	1.066E-11

ERP ELEVATED STACK RELEASES - OCT-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY	X/Q (SEC/M3) 2.260 DAY DECAY	X/Q (SEC/M3) 8.000 DAY DECAY	D/Q (PER SQ.METER)
				UNDEPLETED	UNDEPLETED	DEPLETED	
A	Site Boundary	S	.80	4.9E-08	4.9E-08	4.8E-08	2.4E-09
A	Site Boundary	SSW	.82	2.2E-08	2.2E-08	2.2E-08	9.5E-10
A	Site Boundary	SW	.97	6.3E-08	6.3E-08	6.3E-08	7.1E-10
A	Site Boundary	WSW	.93	3.0E-08	3.0E-08	3.0E-08	5.2E-10
A	Site Boundary	W	.91	7.4E-08	7.4E-08	7.4E-08	8.4E-10
A	Site Boundary	WNW	.94	1.6E-07	1.6E-07	1.6E-07	2.6E-09
A	Site Boundary	NW	.81	1.2E-07	1.2E-07	1.2E-07	2.1E-09
A	Site Boundary	NNW	.69	5.5E-08	5.5E-08	5.5E-08	3.0E-09
A	Site Boundary	N	.67	8.4E-08	8.4E-08	8.2E-08	7.0E-09
A	Site Boundary	NNE	.60	3.2E-08	3.2E-08	3.1E-08	2.4E-09
A	Site Boundary	NE	.62	2.5E-09	2.5E-09	2.5E-09	3.3E-10
A	Site Boundary	ENE	.59	1.3E-08	1.3E-08	1.3E-08	8.4E-10
A	Site Boundary	E	.53	8.5E-09	8.4E-09	8.4E-09	8.5E-10
A	Site Boundary	ESE	.54	6.1E-09	6.1E-09	6.1E-09	1.5E-09
A	Site Boundary	SE	.65	2.4E-08	2.4E-08	2.4E-08	2.7E-09
A	Site Boundary	SSE	.81	6.7E-08	6.7E-08	6.6E-08	3.7E-09
A	Nearest Res	SW	1.30	9.6E-08	9.6E-08	9.5E-08	1.1E-09
A	Nearest Res	WSW	1.30	5.9E-08	5.9E-08	5.8E-08	4.8E-10
A	Nearest Res	W	1.00	7.9E-08	7.9E-08	7.8E-08	7.2E-10
A	Nearest Res	WNW	1.70	2.0E-07	2.0E-07	2.0E-07	1.1E-09
A	Nearest Res	NW	.90	1.7E-07	1.7E-07	1.7E-07	5.0E-09
A	Nearest Res	NNW	1.90	1.3E-07	1.3E-07	1.3E-07	1.4E-09
A	Nearest Res	N	3.00	4.3E-08	4.2E-08	4.1E-08	6.2E-10
A	Nearest Res	ENE	1.70	2.6E-08	2.6E-08	2.6E-08	3.6E-10
A	Nearest Res	E	1.90	2.5E-08	2.5E-08	2.4E-08	3.3E-10
A	Nearest Res	ESE	2.30	4.8E-08	4.8E-08	4.7E-08	8.3E-10
A	Nearest Res	SE	3.20	4.8E-08	4.8E-08	4.6E-08	5.6E-10
A	Nearest Cow	NNW	3.50	8.7E-08	8.6E-08	8.4E-08	4.5E-10
A	Nearest Garde	SW	2.20	5.6E-08	5.6E-08	5.5E-08	3.8E-10
A	Nearest Garde	WSW	1.90	4.6E-08	4.6E-08	4.6E-08	2.2E-10
A	Nearest Garde	WNW	2.40	1.1E-07	1.1E-07	1.1E-07	5.1E-10
A	Nearest Garde	ESE	3.00	3.7E-08	3.7E-08	3.6E-08	5.4E-10
A	Nearest Garde	SE	3.50	4.3E-08	4.3E-08	4.2E-08	4.7E-10
A	MAXIMUM CHI/Q	S	1.50	5.4E-08	5.4E-08	5.3E-08	9.9E-10
A	MAXIMUM CHI/Q	SSW	1.50	3.4E-08	3.4E-08	3.4E-08	5.4E-10
A	MAXIMUM CHI/Q	SW	1.50	1.0E-07	1.0E-07	9.9E-08	8.5E-10
A	MAXIMUM CHI/Q	WSW	1.50	6.6E-08	6.6E-08	6.5E-08	3.6E-10
A	MAXIMUM CHI/Q	W	1.00	7.9E-08	7.9E-08	7.8E-08	7.2E-10
A	MAXIMUM CHI/Q	WNW	1.50	2.5E-07	2.5E-07	2.5E-07	1.5E-09
A	MAXIMUM CHI/Q	NW	1.50	3.3E-07	3.3E-07	3.3E-07	2.9E-09
A	MAXIMUM CHI/Q	NNW	1.50	1.5E-07	1.5E-07	1.4E-07	2.3E-09
A	MAXIMUM CHI/Q	N	.75	9.0E-08	9.0E-08	8.8E-08	6.7E-09
A	MAXIMUM CHI/Q	NNE	1.50	5.8E-08	5.8E-08	5.7E-08	9.0E-10
A	MAXIMUM CHI/Q	NE	1.50	1.9E-08	1.9E-08	1.9E-08	2.9E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.7E-08	2.7E-08	2.7E-08	4.3E-10
A	MAXIMUM CHI/Q	E	1.50	2.7E-08	2.7E-08	2.7E-08	4.7E-10
A	MAXIMUM CHI/Q	ESE	1.50	6.0E-08	6.0E-08	6.0E-08	1.5E-09
A	MAXIMUM CHI/Q	SE	1.50	8.1E-08	8.1E-08	8.0E-08	1.8E-09
A	MAXIMUM CHI/Q	SSE	1.50	8.5E-08	8.5E-08	8.4E-08	1.8E-09

Atmospheric Diffusion Estimates

Elevated Releases

July-December 2005

ERP ELEVATED STACK RELEASES - JUL-DEC 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.356E-09	3.601E-08	6.381E-08	6.540E-08	5.857E-08	4.816E-08	3.911E-08	3.209E-08	2.676E-08	3.016E-08	3.217E-08
SSW	1.481E-10	1.191E-08	3.000E-08	3.877E-08	4.134E-08	3.579E-08	2.967E-08	3.148E-08	3.180E-08	2.768E-08	2.450E-08
SW	1.613E-11	2.362E-09	2.686E-08	6.477E-08	1.036E-07	6.999E-08	5.043E-08	3.831E-08	3.031E-08	2.475E-08	2.072E-08
WSW	1.013E-10	8.703E-09	3.898E-08	7.736E-08	1.221E-07	7.758E-08	5.423E-08	4.052E-08	3.177E-08	2.580E-08	2.154E-08
W	9.593E-10	5.250E-08	1.470E-07	1.680E-07	1.476E-07	9.219E-08	6.381E-08	4.736E-08	3.693E-08	2.987E-08	2.485E-08
WNW	5.527E-10	3.529E-08	1.557E-07	2.544E-07	3.161E-07	1.949E-07	1.334E-07	1.033E-07	8.353E-08	6.667E-08	5.482E-08
NW	2.645E-09	2.896E-08	1.191E-07	2.477E-07	3.986E-07	2.360E-07	1.574E-07	1.162E-07	9.018E-08	7.132E-08	5.819E-08
NNW	6.982E-08	1.046E-07	1.429E-07	1.675E-07	2.034E-07	1.896E-07	1.713E-07	1.526E-07	1.381E-07	1.090E-07	8.891E-08
N	1.913E-07	2.383E-07	2.171E-07	1.616E-07	1.149E-07	9.118E-08	7.444E-08	6.096E-08	5.102E-08	4.350E-08	3.768E-08
NNE	5.451E-09	5.036E-08	7.941E-08	7.891E-08	7.257E-08	6.213E-08	5.220E-08	4.405E-08	3.761E-08	3.254E-08	2.851E-08
NE	4.840E-11	5.651E-09	1.548E-08	2.143E-08	2.543E-08	2.354E-08	2.041E-08	1.748E-08	1.505E-08	1.308E-08	1.150E-08
ENE	8.515E-11	6.792E-09	1.573E-08	1.928E-08	2.070E-08	1.867E-08	1.609E-08	1.379E-08	1.190E-08	1.037E-08	9.145E-09
E	1.197E-10	9.152E-09	1.937E-08	2.198E-08	2.186E-08	1.898E-08	1.598E-08	1.350E-08	1.154E-08	9.993E-09	8.773E-09
ESE	4.923E-11	4.141E-09	1.891E-08	3.010E-08	3.512E-08	3.114E-08	2.614E-08	2.185E-08	1.844E-08	1.577E-08	1.367E-08
SE	6.722E-11	4.833E-09	2.417E-08	4.016E-08	4.838E-08	4.355E-08	3.691E-08	3.107E-08	2.636E-08	2.263E-08	1.967E-08
SSE	1.376E-09	1.348E-08	3.507E-08	4.886E-08	5.432E-08	4.782E-08	4.011E-08	3.355E-08	2.835E-08	2.427E-08	2.105E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.853E-08	1.961E-08	1.279E-08	7.393E-09	5.298E-09	4.071E-09	3.184E-09	2.589E-09	2.191E-09	1.888E-09	1.641E-09
SSW	2.270E-08	1.809E-08	1.177E-08	6.778E-09	4.857E-09	3.651E-09	2.848E-09	2.312E-09	1.932E-09	1.649E-09	1.432E-09
SW	1.909E-08	1.507E-08	9.966E-09	5.851E-09	4.246E-09	3.286E-09	2.658E-09	2.163E-09	1.811E-09	1.549E-09	1.348E-09
WSW	1.948E-08	1.449E-08	1.101E-08	7.271E-09	4.968E-09	3.706E-09	2.920E-09	2.389E-09	2.009E-09	1.726E-09	1.507E-09
W	2.113E-08	1.189E-08	9.011E-09	6.472E-09	5.172E-09	3.890E-09	3.060E-09	2.502E-09	2.103E-09	1.805E-09	1.575E-09
WNW	4.679E-08	2.684E-08	1.858E-08	1.160E-08	8.052E-09	6.070E-09	4.841E-09	3.980E-09	3.343E-09	2.860E-09	2.489E-09
NW	4.921E-08	2.721E-08	1.847E-08	1.114E-08	7.511E-09	5.544E-09	4.398E-09	3.584E-09	2.994E-09	2.556E-09	2.220E-09
NNW	7.603E-08	4.361E-08	2.843E-08	1.644E-08	1.120E-08	8.328E-09	6.614E-09	5.444E-09	4.646E-09	4.002E-09	3.485E-09
N	3.321E-08	2.084E-08	1.710E-08	1.370E-08	1.168E-08	9.749E-09	7.697E-09	6.285E-09	5.267E-09	4.510E-09	3.927E-09
NNE	3.151E-08	4.737E-08	3.083E-08	1.780E-08	1.212E-08	9.012E-09	7.085E-09	5.787E-09	4.859E-09	4.167E-09	3.634E-09
NE	1.273E-08	2.039E-08	1.329E-08	7.681E-09	5.230E-09	3.891E-09	3.094E-09	2.546E-09	2.152E-09	1.844E-09	1.607E-09
ENE	9.955E-09	1.560E-08	1.039E-08	6.169E-09	4.269E-09	3.211E-09	2.682E-09	2.277E-09	1.915E-09	1.646E-09	1.437E-09
E	9.531E-09	1.353E-08	8.909E-09	5.207E-09	3.566E-09	2.662E-09	2.097E-09	1.716E-09	1.480E-09	1.293E-09	1.126E-09
ESE	1.378E-08	1.348E-08	8.805E-09	5.077E-09	3.440E-09	2.546E-09	1.993E-09	1.620E-09	1.355E-09	1.158E-09	1.006E-09
SE	1.729E-08	1.060E-08	8.107E-09	5.628E-09	4.031E-09	3.107E-09	2.511E-09	2.097E-09	1.749E-09	1.491E-09	1.292E-09
SSE	2.222E-08	2.398E-08	1.539E-08	8.707E-09	5.838E-09	4.291E-09	3.341E-09	2.707E-09	2.257E-09	1.924E-09	1.668E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.834E-08	5.546E-08	3.872E-08	2.958E-08	3.023E-08	1.856E-08	7.662E-09	4.043E-09	2.607E-09	1.886E-09
SSW	2.988E-08	3.830E-08	3.202E-08	3.014E-08	2.477E-08	1.631E-08	7.035E-09	3.651E-09	2.320E-09	1.653E-09
SW	3.826E-08	8.004E-08	5.080E-08	3.048E-08	2.131E-08	1.369E-08	6.052E-09	3.291E-09	2.170E-09	1.552E-09
WSW	4.931E-08	9.237E-08	5.497E-08	3.200E-08	2.204E-08	1.405E-08	7.079E-09	3.728E-09	2.396E-09	1.729E-09
W	1.353E-07	1.275E-07	6.479E-08	3.722E-08	2.496E-08	1.266E-08	6.458E-09	3.900E-09	2.509E-09	1.808E-09
WNW	1.728E-07	2.485E-07	1.377E-07	8.275E-08	5.536E-08	2.760E-08	1.157E-08	6.107E-09	3.983E-09	2.866E-09
NW	1.562E-07	2.928E-07	1.619E-07	9.042E-08	5.875E-08	2.821E-08	1.116E-08	5.610E-09	3.592E-09	2.561E-09
NNW	1.453E-07	1.893E-07	1.687E-07	1.311E-07	9.011E-08	4.407E-08	1.677E-08	8.407E-09	5.474E-09	4.001E-09
N	1.972E-07	1.147E-07	7.351E-08	5.099E-08	3.775E-08	2.193E-08	1.356E-08	9.444E-09	6.301E-09	4.519E-09
NNE	7.273E-08	6.934E-08	5.159E-08	3.752E-08	3.081E-08	3.649E-08	1.817E-08	9.069E-09	5.804E-09	4.175E-09
NE	1.594E-08	2.370E-08	2.007E-08	1.499E-08	1.242E-08	1.553E-08	7.838E-09	3.929E-09	2.553E-09	1.848E-09
ENE	1.532E-08	1.948E-08	1.586E-08	1.186E-08	9.809E-09	1.203E-08	6.264E-09	3.282E-09	2.255E-09	1.648E-09
E	1.826E-08	2.061E-08	1.579E-08	1.151E-08	9.415E-09	1.059E-08	5.300E-09	2.677E-09	1.735E-09	1.286E-09
ESE	2.060E-08	3.224E-08	2.576E-08	1.840E-08	1.433E-08	1.147E-08	5.178E-09	2.563E-09	1.626E-09	1.160E-09
SE	2.698E-08	4.440E-08	3.634E-08	2.629E-08	1.966E-08	1.098E-08	5.469E-09	3.115E-09	2.083E-09	1.494E-09
SSE	3.640E-08	5.022E-08	3.954E-08	2.828E-08	2.244E-08	1.977E-08	8.917E-09	4.324E-09	2.717E-09	1.928E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.355E-09	3.598E-08	6.375E-08	6.531E-08	5.843E-08	4.801E-08	3.895E-08	3.193E-08	2.660E-08	2.996E-08	3.192E-08
SSW	1.480E-10	1.190E-08	2.996E-08	3.871E-08	4.122E-08	3.565E-08	2.952E-08	3.129E-08	3.157E-08	2.744E-08	2.426E-08
SW	1.613E-11	2.360E-09	2.683E-08	6.465E-08	1.034E-07	6.972E-08	5.019E-08	3.809E-08	3.010E-08	2.455E-08	2.054E-08
WSW	1.012E-10	8.696E-09	3.893E-08	7.722E-08	1.217E-07	7.726E-08	5.395E-08	4.027E-08	3.153E-08	2.559E-08	2.134E-08
W	9.590E-10	5.245E-08	1.469E-07	1.677E-07	1.472E-07	9.187E-08	6.353E-08	4.710E-08	3.670E-08	2.965E-08	2.464E-08
WNW	5.524E-10	3.527E-08	1.555E-07	2.540E-07	3.153E-07	1.941E-07	1.327E-07	1.027E-07	8.294E-08	6.613E-08	5.432E-08
NW	2.644E-09	2.895E-08	1.190E-07	2.474E-07	3.977E-07	2.353E-07	1.568E-07	1.156E-07	8.968E-08	7.086E-08	5.777E-08
NNW	6.981E-08	1.045E-07	1.428E-07	1.673E-07	2.029E-07	1.891E-07	1.707E-07	1.518E-07	1.373E-07	1.083E-07	8.823E-08
N	1.913E-07	2.382E-07	2.170E-07	1.614E-07	1.146E-07	9.095E-08	7.421E-08	6.072E-08	5.079E-08	4.328E-08	3.747E-08
NNE	5.450E-09	5.033E-08	7.932E-08	7.879E-08	7.237E-08	6.190E-08	5.195E-08	4.380E-08	3.736E-08	3.229E-08	2.827E-08
NE	4.838E-11	5.645E-09	1.545E-08	2.138E-08	2.533E-08	2.342E-08	2.027E-08	1.735E-08	1.491E-08	1.294E-08	1.136E-08
ENE	8.511E-11	6.787E-09	1.571E-08	1.925E-08	2.065E-08	1.861E-08	1.602E-08	1.372E-08	1.183E-08	1.031E-08	9.078E-09
E	1.196E-10	9.146E-09	1.935E-08	2.195E-08	2.181E-08	1.892E-08	1.592E-08	1.344E-08	1.148E-08	9.935E-09	8.716E-09
ESE	4.922E-11	4.139E-09	1.890E-08	3.007E-08	3.506E-08	3.107E-08	2.606E-08	2.177E-08	1.836E-08	1.569E-08	1.359E-08
SE	6.721E-11	4.831E-09	2.415E-08	4.011E-08	4.828E-08	4.342E-08	3.677E-08	3.092E-08	2.621E-08	2.248E-08	1.952E-08
SSE	1.376E-09	1.347E-08	3.504E-08	4.881E-08	5.422E-08	4.770E-08	3.997E-08	3.341E-08	2.821E-08	2.413E-08	2.092E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.828E-08	1.932E-08	1.254E-08	7.170E-09	5.077E-09	3.855E-09	2.981E-09	2.397E-09	2.006E-09	1.708E-09	1.468E-09
SSW	2.245E-08	1.778E-08	1.150E-08	6.543E-09	4.633E-09	3.442E-09	2.654E-09	2.129E-09	1.759E-09	1.484E-09	1.274E-09
SW	1.889E-08	1.483E-08	9.753E-09	5.664E-09	4.065E-09	3.111E-09	2.488E-09	2.003E-09	1.658E-09	1.403E-09	1.208E-09
WSW	1.927E-08	1.424E-08	1.076E-08	7.011E-09	4.732E-09	3.486E-09	2.713E-09	2.193E-09	1.822E-09	1.546E-09	1.334E-09
W	2.093E-08	1.172E-08	8.816E-09	6.237E-09	4.902E-09	3.635E-09	2.820E-09	2.273E-09	1.884E-09	1.595E-09	1.373E-09
WNW	4.631E-08	2.641E-08	1.817E-08	1.120E-08	7.677E-09	5.714E-09	4.499E-09	3.652E-09	3.029E-09	2.559E-09	2.200E-09
NW	4.881E-08	2.688E-08	1.817E-08	1.088E-08	7.273E-09	5.326E-09	4.191E-09	3.388E-09	2.808E-09	2.378E-09	2.049E-09
NNW	7.537E-08	4.301E-08	2.791E-08	1.598E-08	1.078E-08	7.943E-09	6.247E-09	5.091E-09	4.300E-09	3.667E-09	3.163E-09
N	3.299E-08	2.063E-08	1.688E-08	1.342E-08	1.136E-08	9.406E-09	7.373E-09	5.977E-09	4.974E-09	4.229E-09	3.657E-09
NNE	3.121E-08	4.663E-08	3.018E-08	1.724E-08	1.161E-08	8.547E-09	6.649E-09	5.374E-09	4.465E-09	3.790E-09	3.270E-09
NE	1.257E-08	2.006E-08	1.300E-08	7.438E-09	5.012E-09	3.690E-09	2.905E-09	2.367E-09	1.981E-09	1.681E-09	1.450E-09
ENE	9.873E-09	1.538E-08	1.019E-08	5.989E-09	4.102E-09	3.055E-09	2.524E-09	2.119E-09	1.765E-09	1.501E-09	1.298E-09
E	9.460E-09	1.334E-08	8.741E-09	5.058E-09	3.431E-09	2.535E-09	1.978E-09	1.602E-09	1.368E-09	1.183E-09	1.021E-09
ESE	1.369E-08	1.333E-08	8.672E-09	4.960E-09	3.333E-09	2.446E-09	1.898E-09	1.531E-09	1.269E-09	1.076E-09	9.268E-10
SE	1.714E-08	1.046E-08	7.963E-09	5.475E-09	3.884E-09	2.966E-09	2.375E-09	1.965E-09	1.624E-09	1.371E-09	1.178E-09
SSE	2.206E-08	2.363E-08	1.508E-08	8.444E-09	5.601E-09	4.073E-09	3.137E-09	2.513E-09	2.073E-09	1.747E-09	1.499E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.827E-08	5.533E-08	3.856E-08	2.940E-08	2.999E-08	1.830E-08	7.433E-09	3.831E-09	2.415E-09	1.707E-09
SSW	2.983E-08	3.819E-08	3.186E-08	2.992E-08	2.453E-08	1.603E-08	6.796E-09	3.444E-09	2.138E-09	1.488E-09
SW	3.820E-08	7.980E-08	5.056E-08	3.027E-08	2.112E-08	1.348E-08	5.862E-09	3.116E-09	2.010E-09	1.406E-09
WSW	4.923E-08	9.208E-08	5.470E-08	3.176E-08	2.183E-08	1.381E-08	6.830E-09	3.509E-09	2.200E-09	1.549E-09
W	1.352E-07	1.272E-07	6.452E-08	3.699E-08	2.475E-08	1.247E-08	6.217E-09	3.647E-09	2.281E-09	1.599E-09
WNW	1.725E-07	2.478E-07	1.371E-07	8.217E-08	5.485E-08	2.717E-08	1.118E-08	5.751E-09	3.656E-09	2.565E-09
NW	1.560E-07	2.921E-07	1.612E-07	8.991E-08	5.833E-08	2.788E-08	1.090E-08	5.391E-09	3.396E-09	2.384E-09
NNW	1.452E-07	1.889E-07	1.680E-07	1.304E-07	8.942E-08	4.349E-08	1.632E-08	8.021E-09	5.120E-09	3.668E-09
N	1.970E-07	1.145E-07	7.328E-08	5.077E-08	3.753E-08	2.171E-08	1.328E-08	9.114E-09	5.994E-09	4.238E-09
NNE	7.264E-08	6.914E-08	5.135E-08	3.727E-08	3.055E-08	3.589E-08	1.762E-08	8.606E-09	5.392E-09	3.798E-09
NE	1.591E-08	2.360E-08	1.994E-08	1.486E-08	1.228E-08	1.526E-08	7.596E-09	3.729E-09	2.374E-09	1.684E-09
ENE	1.530E-08	1.943E-08	1.579E-08	1.179E-08	9.736E-09	1.185E-08	6.084E-09	3.122E-09	2.100E-09	1.504E-09
E	1.824E-08	2.056E-08	1.573E-08	1.145E-08	9.352E-09	1.043E-08	5.153E-09	2.551E-09	1.621E-09	1.178E-09
ESE	2.058E-08	3.218E-08	2.568E-08	1.832E-08	1.425E-08	1.134E-08	5.062E-09	2.463E-09	1.536E-09	1.078E-09
SE	2.695E-08	4.430E-08	3.620E-08	2.614E-08	1.952E-08	1.084E-08	5.321E-09	2.974E-09	1.952E-09	1.374E-09
SSE	3.637E-08	5.012E-08	3.941E-08	2.814E-08	2.230E-08	1.948E-08	8.656E-09	4.106E-09	2.524E-09	1.752E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.356E-09	3.568E-08	6.266E-08	6.423E-08	5.735E-08	4.690E-08	3.785E-08	3.087E-08	2.559E-08	2.884E-08	3.078E-08
SSW	1.481E-10	1.181E-08	2.958E-08	3.833E-08	4.069E-08	3.497E-08	2.876E-08	3.037E-08	3.059E-08	2.649E-08	2.336E-08
SW	1.613E-11	2.346E-09	2.677E-08	6.464E-08	1.024E-07	6.850E-08	4.901E-08	3.701E-08	2.913E-08	2.369E-08	1.976E-08
WSW	1.013E-10	8.626E-09	3.858E-08	7.684E-08	1.204E-07	7.594E-08	5.278E-08	3.926E-08	3.066E-08	2.482E-08	2.067E-08
W	9.592E-10	5.184E-08	1.454E-07	1.652E-07	1.442E-07	8.949E-08	6.162E-08	4.555E-08	3.540E-08	2.856E-08	2.369E-08
WNW	5.526E-10	3.503E-08	1.546E-07	2.517E-07	3.106E-07	1.900E-07	1.292E-07	9.970E-08	8.041E-08	6.387E-08	5.225E-08
NW	2.644E-09	2.871E-08	1.180E-07	2.456E-07	3.929E-07	2.307E-07	1.529E-07	1.123E-07	8.686E-08	6.835E-08	5.546E-08
NNW	6.982E-08	1.037E-07	1.404E-07	1.652E-07	2.004E-07	1.859E-07	1.676E-07	1.490E-07	1.347E-07	1.059E-07	8.592E-08
N	1.913E-07	2.362E-07	2.124E-07	1.575E-07	1.117E-07	8.844E-08	7.198E-08	5.873E-08	4.899E-08	4.165E-08	3.597E-08
NNE	5.451E-09	4.990E-08	7.790E-08	7.740E-08	7.106E-08	6.058E-08	5.066E-08	4.256E-08	3.619E-08	3.119E-08	2.724E-08
NE	4.840E-11	5.602E-09	1.526E-08	2.120E-08	2.505E-08	2.304E-08	1.985E-08	1.690E-08	1.447E-08	1.252E-08	1.095E-08
ENE	8.514E-11	6.733E-09	1.550E-08	1.903E-08	2.038E-08	1.829E-08	1.569E-08	1.339E-08	1.151E-08	9.998E-09	8.788E-09
E	1.196E-10	9.071E-09	1.905E-08	2.165E-08	2.147E-08	1.855E-08	1.554E-08	1.307E-08	1.112E-08	9.597E-09	8.398E-09
ESE	4.923E-11	4.112E-09	1.880E-08	2.998E-08	3.474E-08	3.056E-08	2.547E-08	2.115E-08	1.775E-08	1.510E-08	1.302E-08
SE	6.722E-11	4.801E-09	2.404E-08	4.002E-08	4.786E-08	4.275E-08	3.597E-08	3.008E-08	2.538E-08	2.168E-08	1.875E-08
SSE	1.376E-09	1.337E-08	3.471E-08	4.850E-08	5.363E-08	4.688E-08	3.904E-08	3.246E-08	2.727E-08	2.323E-08	2.006E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.722E-08	1.839E-08	1.162E-08	6.287E-09	4.186E-09	3.025E-09	2.257E-09	1.759E-09	1.434E-09	1.197E-09	1.011E-09
SSW	2.161E-08	1.700E-08	1.071E-08	5.765E-09	3.852E-09	2.776E-09	2.087E-09	1.638E-09	1.326E-09	1.100E-09	9.295E-10
SW	1.818E-08	1.421E-08	9.095E-09	4.988E-09	3.351E-09	2.428E-09	1.887E-09	1.483E-09	1.202E-09	9.980E-10	8.443E-10
WSW	1.868E-08	1.367E-08	1.007E-08	6.282E-09	4.096E-09	2.935E-09	2.232E-09	1.768E-09	1.444E-09	1.206E-09	1.026E-09
W	2.010E-08	1.121E-08	8.416E-09	5.704E-09	4.277E-09	3.090E-09	2.346E-09	1.857E-09	1.514E-09	1.264E-09	1.075E-09
WNW	4.436E-08	2.469E-08	1.654E-08	9.624E-09	6.157E-09	4.352E-09	3.324E-09	2.634E-09	2.139E-09	1.774E-09	1.499E-09
NW	4.664E-08	2.500E-08	1.643E-08	9.299E-09	5.921E-09	4.165E-09	3.180E-09	2.507E-09	2.032E-09	1.686E-09	1.426E-09
NNW	7.309E-08	4.064E-08	2.558E-08	1.375E-08	8.622E-09	5.979E-09	4.473E-09	3.517E-09	2.893E-09	2.413E-09	2.039E-09
N	3.162E-08	1.963E-08	1.609E-08	1.290E-08	1.075E-08	8.552E-09	6.546E-09	5.197E-09	4.245E-09	3.549E-09	3.022E-09
NNE	3.018E-08	4.553E-08	2.862E-08	1.551E-08	9.913E-09	6.990E-09	5.244E-09	4.106E-09	3.317E-09	2.744E-09	2.314E-09
NE	1.215E-08	1.956E-08	1.232E-08	6.695E-09	4.295E-09	3.037E-09	2.321E-09	1.848E-09	1.516E-09	1.263E-09	1.072E-09
ENE	9.582E-09	1.510E-08	9.722E-09	5.369E-09	3.417E-09	2.396E-09	1.880E-09	1.521E-09	1.235E-09	1.026E-09	8.690E-10
E	9.141E-09	1.304E-08	8.303E-09	4.520E-09	2.853E-09	1.988E-09	1.474E-09	1.142E-09	9.367E-10	7.831E-10	6.578E-10
ESE	1.310E-08	1.279E-08	8.088E-09	4.373E-09	2.759E-09	1.921E-09	1.425E-09	1.104E-09	8.831E-10	7.240E-10	6.052E-10
SE	1.640E-08	9.892E-09	7.499E-09	5.152E-09	3.652E-09	2.794E-09	2.244E-09	1.859E-09	1.518E-09	1.268E-09	1.079E-09
SSE	2.117E-08	2.273E-08	1.408E-08	7.489E-09	4.737E-09	3.312E-09	2.468E-09	1.921E-09	1.545E-09	1.272E-09	1.069E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.736E-08	5.423E-08	3.747E-08	2.834E-08	2.889E-08	1.734E-08	6.538E-09	3.028E-09	1.778E-09	1.198E-09
SSW	2.952E-08	3.762E-08	3.106E-08	2.897E-08	2.364E-08	1.523E-08	6.013E-09	2.787E-09	1.647E-09	1.104E-09
SW	3.817E-08	7.894E-08	4.941E-08	2.931E-08	2.034E-08	1.282E-08	5.173E-09	2.457E-09	1.491E-09	1.002E-09
WSW	4.893E-08	9.097E-08	5.355E-08	3.089E-08	2.116E-08	1.318E-08	6.153E-09	2.964E-09	1.777E-09	1.210E-09
W	1.334E-07	1.246E-07	6.262E-08	3.569E-08	2.380E-08	1.195E-08	5.672E-09	3.109E-09	1.866E-09	1.268E-09
WNW	1.712E-07	2.439E-07	1.336E-07	7.962E-08	5.277E-08	2.544E-08	9.620E-09	4.422E-09	2.643E-09	1.780E-09
NW	1.549E-07	2.881E-07	1.574E-07	8.707E-08	5.601E-08	2.600E-08	9.382E-09	4.239E-09	2.518E-09	1.692E-09
NNW	1.433E-07	1.861E-07	1.650E-07	1.278E-07	8.710E-08	4.116E-08	1.410E-08	6.082E-09	3.553E-09	2.417E-09
N	1.933E-07	1.115E-07	7.107E-08	4.898E-08	3.604E-08	2.072E-08	1.265E-08	8.336E-09	5.220E-09	3.560E-09
NNE	7.146E-08	6.781E-08	5.007E-08	3.611E-08	2.950E-08	3.460E-08	1.593E-08	7.071E-09	4.130E-09	2.755E-09
NE	1.575E-08	2.330E-08	1.952E-08	1.442E-08	1.186E-08	1.469E-08	6.878E-09	3.086E-09	1.857E-09	1.267E-09
ENE	1.512E-08	1.915E-08	1.546E-08	1.147E-08	9.441E-09	1.148E-08	5.469E-09	2.462E-09	1.515E-09	1.030E-09
E	1.799E-08	2.021E-08	1.535E-08	1.110E-08	9.029E-09	1.007E-08	4.620E-09	2.013E-09	1.159E-09	7.822E-10
ESE	2.050E-08	3.182E-08	2.510E-08	1.771E-08	1.367E-08	1.077E-08	4.481E-09	1.946E-09	1.111E-09	7.271E-10
SE	2.687E-08	4.385E-08	3.542E-08	2.531E-08	1.875E-08	1.028E-08	5.007E-09	2.803E-09	1.839E-09	1.272E-09
SSE	3.609E-08	4.949E-08	3.850E-08	2.721E-08	2.141E-08	1.854E-08	7.731E-09	3.354E-09	1.934E-09	1.278E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.975E-09	3.336E-09	2.986E-09	2.149E-09	1.085E-09	6.759E-10	4.605E-10	3.322E-10	2.493E-10	2.003E-10	1.817E-10
SSW	1.229E-09	1.222E-09	1.367E-09	1.133E-09	6.305E-10	4.072E-10	2.826E-10	2.057E-10	1.923E-10	1.454E-10	1.138E-10
SW	1.781E-10	3.848E-10	6.822E-10	6.752E-10	8.011E-10	4.368E-10	2.708E-10	1.838E-10	1.329E-10	1.005E-10	7.862E-11
WSW	8.118E-10	7.680E-10	8.120E-10	1.130E-09	6.478E-10	3.501E-10	2.161E-10	1.463E-10	1.056E-10	7.981E-11	6.246E-11
W	9.479E-10	3.219E-09	2.700E-09	1.660E-09	7.570E-10	4.092E-10	2.526E-10	1.712E-10	1.237E-10	9.356E-11	7.333E-11
WNW	1.639E-09	1.628E-09	4.375E-09	3.308E-09	1.952E-09	9.902E-10	5.908E-10	3.965E-10	2.995E-10	2.319E-10	1.897E-10
NW	2.958E-09	2.702E-09	2.736E-09	4.506E-09	2.809E-09	1.398E-09	8.269E-10	5.490E-10	3.972E-10	3.075E-10	2.514E-10
NNW	1.009E-08	7.906E-09	6.269E-09	4.070E-09	2.977E-09	1.593E-09	9.848E-10	7.842E-10	5.764E-10	4.541E-10	3.782E-10
N	2.514E-08	1.885E-08	1.366E-08	8.075E-09	3.391E-09	1.940E-09	1.262E-09	8.875E-10	6.574E-10	5.056E-10	4.002E-10
NNE	5.002E-09	4.029E-09	3.364E-09	2.289E-09	1.104E-09	6.747E-10	4.552E-10	3.266E-10	2.445E-10	1.888E-10	1.495E-10
NE	4.229E-10	4.861E-10	6.234E-10	5.513E-10	3.186E-10	2.085E-10	1.456E-10	1.063E-10	8.029E-11	6.225E-11	4.929E-11
ENE	6.764E-10	6.393E-10	6.753E-10	5.421E-10	2.958E-10	1.897E-10	1.312E-10	9.533E-11	7.182E-11	5.562E-11	4.404E-11
E	9.385E-10	8.446E-10	8.380E-10	6.477E-10	3.446E-10	2.190E-10	1.507E-10	1.093E-10	8.224E-11	6.366E-11	5.041E-11
ESE	4.876E-10	8.743E-10	1.450E-09	1.408E-09	8.535E-10	5.671E-10	3.989E-10	2.924E-10	2.212E-10	1.716E-10	1.359E-10
SE	7.645E-10	1.168E-09	1.800E-09	1.707E-09	1.024E-09	6.778E-10	4.759E-10	3.486E-10	2.636E-10	2.045E-10	1.619E-10
SSE	1.672E-09	1.828E-09	2.246E-09	1.949E-09	1.115E-09	7.266E-10	5.065E-10	3.696E-10	2.790E-10	2.163E-10	1.713E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.462E-10	1.017E-10	6.941E-11	4.033E-11	2.568E-11	1.818E-11	1.301E-11	9.752E-12	7.662E-12	6.113E-12	4.991E-12
SSW	9.218E-11	6.706E-11	4.616E-11	2.694E-11	1.691E-11	1.200E-11	8.602E-12	6.461E-12	5.073E-12	4.052E-12	3.307E-12
SW	6.352E-11	5.132E-11	3.613E-11	2.144E-11	1.359E-11	9.564E-12	6.645E-12	4.989E-12	3.879E-12	3.099E-12	2.529E-12
WSW	5.023E-11	4.442E-11	3.194E-11	1.975E-11	1.195E-11	8.015E-12	5.743E-12	4.312E-12	3.353E-12	2.678E-12	2.186E-12
W	5.908E-11	2.676E-11	3.676E-11	2.299E-11	1.418E-11	9.508E-12	6.813E-12	5.116E-12	3.978E-12	3.177E-12	2.594E-12
WNW	1.634E-10	9.726E-11	6.898E-11	4.127E-11	2.700E-11	1.776E-11	1.249E-11	9.381E-12	7.330E-12	5.855E-12	4.779E-12
NW	2.159E-10	1.280E-10	9.060E-11	5.651E-11	3.444E-11	2.306E-11	1.655E-11	1.243E-11	9.685E-12	7.737E-12	6.315E-12
NNW	3.299E-10	2.053E-10	1.488E-10	9.100E-11	5.869E-11	3.943E-11	2.660E-11	1.949E-11	1.525E-11	1.218E-11	9.946E-12
N	3.241E-10	1.556E-10	9.637E-11	5.261E-11	9.844E-11	6.032E-11	4.317E-11	3.241E-11	2.520E-11	2.013E-11	1.643E-11
NNE	1.207E-10	1.984E-10	1.244E-10	6.553E-11	4.020E-11	2.690E-11	1.920E-11	1.435E-11	1.112E-11	8.858E-12	7.214E-12
NE	3.973E-11	7.886E-11	4.922E-11	2.582E-11	1.583E-11	1.061E-11	7.588E-12	5.668E-12	4.409E-12	3.592E-12	2.932E-12
ENE	3.552E-11	5.905E-11	4.542E-11	2.887E-11	1.862E-11	1.233E-11	8.641E-12	5.457E-12	4.245E-12	3.393E-12	2.771E-12
E	4.066E-11	5.891E-11	4.456E-11	2.801E-11	1.804E-11	1.197E-11	8.411E-12	6.166E-12	4.696E-12	3.431E-12	2.795E-12
ESE	1.095E-10	9.859E-11	6.800E-11	3.967E-11	2.505E-11	1.666E-11	1.178E-11	8.703E-12	6.685E-12	5.291E-12	4.289E-12
SE	1.305E-10	6.183E-11	3.772E-11	1.987E-11	1.212E-11	8.335E-12	6.219E-12	1.049E-11	8.096E-12	6.444E-12	5.259E-12
SSE	1.380E-10	1.644E-10	1.009E-10	5.188E-11	3.156E-11	2.114E-11	1.511E-11	1.132E-11	8.789E-12	7.011E-12	5.716E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.692E-09	1.140E-09	4.666E-10	2.543E-10	1.740E-10	9.724E-11	4.028E-11	1.811E-11	9.887E-12	6.156E-12
SSW	1.231E-09	6.429E-10	2.851E-10	1.783E-10	1.152E-10	6.335E-11	2.675E-11	1.195E-11	6.544E-12	4.079E-12
SW	6.130E-10	6.112E-10	2.803E-10	1.351E-10	7.950E-11	4.728E-11	2.121E-11	9.471E-12	5.039E-12	3.119E-12
WSW	9.437E-10	6.227E-10	2.239E-10	1.074E-10	6.307E-11	4.016E-11	1.899E-11	8.157E-12	4.356E-12	2.696E-12
W	2.353E-09	8.032E-10	2.618E-10	1.258E-10	7.405E-11	3.839E-11	2.213E-11	9.676E-12	5.167E-12	3.198E-12
WNW	3.290E-09	1.826E-09	6.196E-10	3.015E-10	1.924E-10	9.938E-11	4.109E-11	1.812E-11	9.488E-12	5.894E-12
NW	3.515E-09	2.559E-09	8.681E-10	4.064E-10	2.549E-10	1.309E-10	5.428E-11	2.349E-11	1.256E-11	7.788E-12
NNW	5.655E-09	2.605E-09	1.067E-09	5.892E-10	3.828E-10	2.079E-10	8.950E-11	3.943E-11	1.991E-11	1.226E-11
N	1.233E-08	3.787E-09	1.293E-09	6.653E-10	4.032E-10	1.667E-10	8.270E-11	6.362E-11	3.274E-11	2.027E-11
NNE	3.034E-09	1.177E-09	4.623E-10	2.467E-10	1.505E-10	1.483E-10	6.736E-11	2.737E-11	1.451E-11	8.919E-12
NE	5.608E-10	3.214E-10	1.466E-10	8.085E-11	4.959E-11	5.699E-11	2.658E-11	1.079E-11	5.737E-12	3.590E-12
ENE	6.081E-10	3.034E-10	1.324E-10	7.237E-11	4.432E-11	4.776E-11	2.799E-11	1.253E-11	5.905E-12	3.415E-12
E	7.549E-10	3.561E-10	1.523E-10	8.289E-11	5.072E-11	4.848E-11	2.725E-11	1.216E-11	6.247E-12	3.570E-12
ESE	1.303E-09	8.494E-10	4.012E-10	2.227E-10	1.367E-10	8.742E-11	3.947E-11	1.694E-11	8.812E-12	5.333E-12
SE	1.618E-09	1.022E-09	4.788E-10	2.654E-10	1.629E-10	6.637E-11	2.039E-11	8.499E-12	8.357E-12	6.494E-12
SSE	2.021E-09	1.128E-09	5.105E-10	2.810E-10	1.723E-10	1.303E-10	5.375E-11	2.151E-11	1.144E-11	7.058E-12

ERP ELEVATED STACK RELEASES - JUL-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	6.5E-08	6.5E-08	6.4E-08	2.8E-09
A	Site Boundary	SSW	.82	3.3E-08	3.3E-08	3.3E-08	1.3E-09
A	Site Boundary	SW	.97	6.1E-08	6.1E-08	6.1E-08	6.9E-10
A	Site Boundary	WSW	.93	6.6E-08	6.6E-08	6.6E-08	9.0E-10
A	Site Boundary	W	.91	1.7E-07	1.7E-07	1.6E-07	2.0E-09
A	Site Boundary	WNW	.94	2.3E-07	2.3E-07	2.3E-07	3.7E-09
A	Site Boundary	NW	.81	1.5E-07	1.5E-07	1.5E-07	2.6E-09
A	Site Boundary	NNW	.69	1.3E-07	1.3E-07	1.3E-07	6.6E-09
A	Site Boundary	N	.67	2.2E-07	2.2E-07	2.2E-07	1.5E-08
A	Site Boundary	NNE	.60	6.4E-08	6.4E-08	6.3E-08	3.7E-09
A	Site Boundary	NE	.62	1.0E-08	1.0E-08	1.0E-08	5.5E-10
A	Site Boundary	ENE	.59	9.8E-09	9.8E-09	9.7E-09	6.4E-10
A	Site Boundary	E	.53	1.0E-08	1.0E-08	1.0E-08	8.4E-10
A	Site Boundary	ESE	.54	5.5E-09	5.5E-09	5.5E-09	9.5E-10
A	Site Boundary	SE	.65	1.4E-08	1.4E-08	1.4E-08	1.5E-09
A	Site Boundary	SSE	.81	3.9E-08	3.9E-08	3.9E-08	2.2E-09
A	Nearest Res	SW	1.30	9.5E-08	9.5E-08	9.4E-08	1.1E-09
A	Nearest Res	WSW	1.30	1.1E-07	1.1E-07	1.1E-07	8.7E-10
A	Nearest Res	W	1.00	1.7E-07	1.7E-07	1.7E-07	1.7E-09
A	Nearest Res	WNW	1.70	2.6E-07	2.6E-07	2.5E-07	1.5E-09
A	Nearest Res	NW	.90	2.0E-07	2.0E-07	1.9E-07	5.0E-09
A	Nearest Res	NNW	1.90	1.9E-07	1.9E-07	1.9E-07	1.8E-09
A	Nearest Res	N	3.00	6.1E-08	6.1E-08	5.9E-08	8.9E-10
A	Nearest Res	ENE	1.70	2.0E-08	2.0E-08	2.0E-08	2.4E-10
A	Nearest Res	E	1.90	2.0E-08	2.0E-08	1.9E-08	2.4E-10
A	Nearest Res	ESE	2.30	2.8E-08	2.8E-08	2.7E-08	4.6E-10
A	Nearest Res	SE	3.20	2.9E-08	2.9E-08	2.8E-08	3.1E-10
A	Nearest Cow	NNW	3.50	1.4E-07	1.4E-07	1.3E-07	5.8E-10
A	Nearest Garde	SW	2.20	6.1E-08	6.1E-08	5.9E-08	3.6E-10
A	Nearest Garde	WSW	1.90	8.4E-08	8.4E-08	8.3E-08	3.9E-10
A	Nearest Garde	WNW	2.40	1.4E-07	1.4E-07	1.4E-07	6.5E-10
A	Nearest Garde	ESE	3.00	2.2E-08	2.2E-08	2.1E-08	2.9E-10
A	Nearest Garde	SE	3.50	2.6E-08	2.6E-08	2.5E-08	2.6E-10
A	MAXIMUM CHI/Q	S	1.00	6.5E-08	6.5E-08	6.4E-08	2.1E-09
A	MAXIMUM CHI/Q	SSW	1.50	4.1E-08	4.1E-08	4.1E-08	6.3E-10
A	MAXIMUM CHI/Q	SW	1.50	1.0E-07	1.0E-07	1.0E-07	8.0E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.2E-07	1.2E-07	1.2E-07	6.5E-10
A	MAXIMUM CHI/Q	W	1.00	1.7E-07	1.7E-07	1.7E-07	1.7E-09
A	MAXIMUM CHI/Q	WNW	1.50	3.2E-07	3.2E-07	3.1E-07	2.0E-09
A	MAXIMUM CHI/Q	NW	1.50	4.0E-07	4.0E-07	3.9E-07	2.8E-09
A	MAXIMUM CHI/Q	NNW	1.50	2.0E-07	2.0E-07	2.0E-07	3.0E-09
A	MAXIMUM CHI/Q	N	.50	2.3E-07	2.3E-07	2.3E-07	1.9E-08
A	MAXIMUM CHI/Q	NNE	.75	7.9E-08	7.9E-08	7.8E-08	3.4E-09
A	MAXIMUM CHI/Q	NE	1.50	2.5E-08	2.5E-08	2.5E-08	3.2E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.1E-08	2.1E-08	2.0E-08	3.0E-10
A	MAXIMUM CHI/Q	E	1.00	2.2E-08	2.2E-08	2.2E-08	6.5E-10
A	MAXIMUM CHI/Q	ESE	1.50	3.5E-08	3.5E-08	3.5E-08	8.5E-10
A	MAXIMUM CHI/Q	SE	1.50	4.8E-08	4.8E-08	4.8E-08	1.0E-09
A	MAXIMUM CHI/Q	SSE	1.50	5.4E-08	5.4E-08	5.4E-08	1.1E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-December 2005

ERP ELEVATED STACK RELEASES - JAN-DEC 2005
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.399E-09	3.269E-08	6.636E-08	7.646E-08	7.399E-08	6.159E-08	4.995E-08	4.081E-08	3.386E-08	3.723E-08	3.876E-08
SSW	1.192E-09	1.342E-08	3.283E-08	4.481E-08	4.931E-08	4.283E-08	3.543E-08	3.704E-08	3.645E-08	3.123E-08	2.719E-08
SW	1.560E-11	1.880E-09	2.541E-08	6.326E-08	1.016E-07	6.830E-08	4.896E-08	3.699E-08	2.912E-08	2.366E-08	1.972E-08
WSW	5.120E-11	4.625E-09	3.183E-08	7.527E-08	1.249E-07	7.898E-08	5.480E-08	4.063E-08	3.160E-08	2.548E-08	2.112E-08
W	4.850E-10	3.904E-08	1.368E-07	1.639E-07	1.445E-07	8.965E-08	6.155E-08	4.531E-08	3.506E-08	2.816E-08	2.327E-08
WNW	1.204E-09	3.992E-08	1.744E-07	2.796E-07	3.244E-07	1.964E-07	1.325E-07	1.004E-07	7.962E-08	6.301E-08	5.143E-08
NW	5.590E-09	3.684E-08	1.282E-07	2.645E-07	4.238E-07	2.495E-07	1.656E-07	1.212E-07	9.345E-08	7.362E-08	5.986E-08
NNW	6.457E-08	1.023E-07	1.343E-07	1.575E-07	1.939E-07	1.807E-07	1.610E-07	1.402E-07	1.236E-07	9.725E-08	7.904E-08
N	1.520E-07	1.841E-07	1.729E-07	1.362E-07	1.039E-07	8.446E-08	6.942E-08	5.689E-08	4.756E-08	4.046E-08	3.497E-08
NNE	6.808E-09	5.293E-08	8.002E-08	7.890E-08	7.240E-08	6.185E-08	5.183E-08	4.363E-08	3.716E-08	3.208E-08	2.805E-08
NE	8.798E-11	6.692E-09	1.671E-08	2.226E-08	2.573E-08	2.370E-08	2.055E-08	1.764E-08	1.523E-08	1.327E-08	1.169E-08
ENE	4.304E-11	3.607E-09	1.092E-08	1.574E-08	1.856E-08	1.705E-08	1.475E-08	1.263E-08	1.088E-08	9.463E-09	8.323E-09
E	3.505E-10	6.634E-09	1.584E-08	2.062E-08	2.256E-08	2.000E-08	1.691E-08	1.425E-08	1.213E-08	1.046E-08	9.136E-09
ESE	1.504E-10	9.921E-09	2.711E-08	3.628E-08	3.895E-08	3.372E-08	2.798E-08	2.322E-08	1.950E-08	1.662E-08	1.436E-08
SE	1.724E-10	1.038E-08	3.258E-08	4.689E-08	5.253E-08	4.621E-08	3.870E-08	3.234E-08	2.731E-08	2.336E-08	2.025E-08
SSE	3.779E-09	2.531E-08	4.967E-08	6.166E-08	6.446E-08	5.569E-08	4.625E-08	3.844E-08	3.233E-08	2.757E-08	2.385E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.408E-08	2.236E-08	1.448E-08	8.275E-09	5.838E-09	4.438E-09	3.456E-09	2.800E-09	2.359E-09	2.024E-09	1.755E-09
SSW	2.465E-08	1.791E-08	1.156E-08	6.573E-09	4.639E-09	3.462E-09	2.689E-09	2.174E-09	1.811E-09	1.541E-09	1.335E-09
SW	1.791E-08	1.300E-08	8.505E-09	4.920E-09	3.492E-09	2.662E-09	2.128E-09	1.725E-09	1.440E-09	1.228E-09	1.065E-09
WSW	1.876E-08	1.277E-08	9.310E-09	5.905E-09	3.999E-09	2.962E-09	2.321E-09	1.890E-09	1.584E-09	1.355E-09	1.180E-09
W	1.967E-08	1.081E-08	7.872E-09	5.331E-09	4.090E-09	3.051E-09	2.388E-09	1.943E-09	1.627E-09	1.391E-09	1.211E-09
WNW	4.347E-08	2.397E-08	1.615E-08	9.715E-09	6.632E-09	4.937E-09	3.893E-09	3.175E-09	2.652E-09	2.260E-09	1.960E-09
NW	5.036E-08	2.725E-08	1.819E-08	1.072E-08	7.181E-09	5.274E-09	4.147E-09	3.364E-09	2.802E-09	2.386E-09	2.067E-09
NNW	6.716E-08	3.762E-08	2.439E-08	1.399E-08	9.476E-09	7.018E-09	5.544E-09	4.543E-09	3.855E-09	3.311E-09	2.878E-09
N	3.072E-08	1.901E-08	1.525E-08	1.169E-08	9.630E-09	7.891E-09	6.208E-09	5.055E-09	4.227E-09	3.612E-09	3.140E-09
NNE	3.067E-08	4.166E-08	2.698E-08	1.547E-08	1.048E-08	7.766E-09	6.087E-09	4.959E-09	4.155E-09	3.556E-09	3.095E-09
NE	1.307E-08	2.423E-08	1.590E-08	9.275E-09	6.356E-09	4.751E-09	3.804E-09	3.146E-09	2.673E-09	2.296E-09	2.005E-09
ENE	8.961E-09	1.492E-08	1.001E-08	6.000E-09	4.176E-09	3.155E-09	2.671E-09	2.289E-09	1.929E-09	1.660E-09	1.452E-09
E	9.675E-09	1.299E-08	8.550E-09	4.991E-09	3.415E-09	2.547E-09	2.006E-09	1.640E-09	1.419E-09	1.242E-09	1.082E-09
ESE	1.438E-08	1.484E-08	9.764E-09	5.694E-09	3.890E-09	2.898E-09	2.280E-09	1.862E-09	1.563E-09	1.340E-09	1.168E-09
SE	1.776E-08	1.083E-08	8.280E-09	5.828E-09	4.233E-09	3.317E-09	2.728E-09	2.318E-09	1.941E-09	1.661E-09	1.445E-09
SSE	2.495E-08	2.801E-08	1.802E-08	1.024E-08	6.890E-09	5.077E-09	3.962E-09	3.216E-09	2.686E-09	2.293E-09	1.991E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.337E-08	6.903E-08	4.940E-08	3.713E-08	3.657E-08	2.146E-08	8.570E-09	4.419E-09	2.819E-09	2.024E-09
SSW	3.384E-08	4.543E-08	3.805E-08	3.463E-08	2.745E-08	1.659E-08	6.821E-09	3.467E-09	2.183E-09	1.545E-09
SW	3.700E-08	7.828E-08	4.933E-08	2.929E-08	2.022E-08	1.209E-08	5.082E-09	2.670E-09	1.732E-09	1.230E-09
WSW	4.509E-08	9.345E-08	5.558E-08	3.185E-08	2.154E-08	1.256E-08	5.815E-09	2.982E-09	1.897E-09	1.358E-09
W	1.271E-07	1.244E-07	6.255E-08	3.536E-08	2.339E-08	1.147E-08	5.344E-09	3.063E-09	1.949E-09	1.394E-09
WNW	1.913E-07	2.575E-07	1.367E-07	7.924E-08	5.191E-08	2.483E-08	9.776E-09	4.972E-09	3.181E-09	2.265E-09
NW	1.685E-07	3.109E-07	1.702E-07	9.384E-08	6.042E-08	2.836E-08	1.081E-08	5.332E-09	3.374E-09	2.391E-09
NNW	1.375E-07	1.799E-07	1.579E-07	1.183E-07	8.003E-08	3.830E-08	1.429E-08	7.084E-09	4.567E-09	3.312E-09
N	1.591E-07	1.024E-07	6.842E-08	4.752E-08	3.502E-08	1.994E-08	1.157E-08	7.681E-09	5.069E-09	3.619E-09
NNE	7.351E-08	6.916E-08	5.122E-08	3.707E-08	3.021E-08	3.269E-08	1.581E-08	7.819E-09	4.975E-09	3.563E-09
NE	1.695E-08	2.406E-08	2.023E-08	1.517E-08	1.267E-08	1.804E-08	9.449E-09	4.800E-09	3.154E-09	2.300E-09
ENE	1.144E-08	1.727E-08	1.452E-08	1.084E-08	8.897E-09	1.142E-08	6.081E-09	3.234E-09	2.261E-09	1.663E-09
E	1.592E-08	2.099E-08	1.667E-08	1.210E-08	9.728E-09	1.028E-08	5.081E-09	2.562E-09	1.660E-09	1.235E-09
ESE	2.737E-08	3.603E-08	2.761E-08	1.947E-08	1.504E-08	1.248E-08	5.797E-09	2.915E-09	1.868E-09	1.343E-09
SE	3.401E-08	4.847E-08	3.816E-08	2.724E-08	2.025E-08	1.124E-08	5.664E-09	3.326E-09	2.291E-09	1.664E-09
SSE	4.959E-08	5.994E-08	4.565E-08	3.226E-08	2.536E-08	2.289E-08	1.048E-08	5.115E-09	3.227E-09	2.298E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2005
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.398E-09	3.267E-08	6.630E-08	7.636E-08	7.383E-08	6.141E-08	4.976E-08	4.062E-08	3.367E-08	3.699E-08	3.847E-08
SSW	1.191E-09	1.341E-08	3.280E-08	4.474E-08	4.918E-08	4.267E-08	3.526E-08	3.682E-08	3.618E-08	3.097E-08	2.694E-08
SW	1.559E-11	1.878E-09	2.537E-08	6.314E-08	1.013E-07	6.803E-08	4.871E-08	3.677E-08	2.891E-08	2.347E-08	1.954E-08
WSW	5.117E-11	4.621E-09	3.179E-08	7.513E-08	1.245E-07	7.863E-08	5.450E-08	4.035E-08	3.135E-08	2.525E-08	2.091E-08
W	4.849E-10	3.900E-08	1.366E-07	1.636E-07	1.441E-07	8.930E-08	6.124E-08	4.503E-08	3.481E-08	2.792E-08	2.305E-08
WNW	1.203E-09	3.989E-08	1.742E-07	2.791E-07	3.234E-07	1.955E-07	1.318E-07	9.979E-08	7.901E-08	6.245E-08	5.092E-08
NW	5.588E-09	3.682E-08	1.281E-07	2.641E-07	4.226E-07	2.486E-07	1.648E-07	1.206E-07	9.284E-08	7.307E-08	5.936E-08
NNW	6.455E-08	1.022E-07	1.342E-07	1.573E-07	1.935E-07	1.801E-07	1.604E-07	1.395E-07	1.229E-07	9.657E-08	7.841E-08
N	1.520E-07	1.840E-07	1.728E-07	1.361E-07	1.037E-07	8.424E-08	6.918E-08	5.665E-08	4.732E-08	4.023E-08	3.474E-08
NNE	6.807E-09	5.290E-08	7.994E-08	7.878E-08	7.220E-08	6.160E-08	5.156E-08	4.335E-08	3.689E-08	3.180E-08	2.778E-08
NE	8.795E-11	6.687E-09	1.669E-08	2.221E-08	2.565E-08	2.358E-08	2.042E-08	1.751E-08	1.509E-08	1.313E-08	1.156E-08
ENE	4.302E-11	3.604E-09	1.091E-08	1.572E-08	1.852E-08	1.700E-08	1.469E-08	1.257E-08	1.082E-08	9.399E-09	8.260E-09
E	3.504E-10	6.630E-09	1.582E-08	2.059E-08	2.250E-08	1.993E-08	1.683E-08	1.417E-08	1.205E-08	1.038E-08	9.059E-09
ESE	1.503E-10	9.916E-09	2.709E-08	3.624E-08	3.887E-08	3.363E-08	2.788E-08	2.312E-08	1.940E-08	1.652E-08	1.426E-08
SE	1.724E-10	1.038E-08	3.256E-08	4.683E-08	5.243E-08	4.608E-08	3.857E-08	3.220E-08	2.717E-08	2.322E-08	2.011E-08
SSE	3.778E-09	2.530E-08	4.964E-08	6.158E-08	6.433E-08	5.554E-08	4.609E-08	3.827E-08	3.216E-08	2.741E-08	2.369E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.379E-08	2.204E-08	1.419E-08	8.026E-09	5.596E-09	4.204E-09	3.237E-09	2.593E-09	2.159E-09	1.832E-09	1.571E-09
SSW	2.438E-08	1.760E-08	1.129E-08	6.345E-09	4.423E-09	3.261E-09	2.503E-09	2.000E-09	1.647E-09	1.385E-09	1.186E-09
SW	1.772E-08	1.279E-08	8.322E-09	4.762E-09	3.343E-09	2.520E-09	1.993E-09	1.598E-09	1.319E-09	1.113E-09	9.558E-10
WSW	1.854E-08	1.255E-08	9.091E-09	5.696E-09	3.811E-09	2.789E-09	2.160E-09	1.738E-09	1.439E-09	1.217E-09	1.047E-09
W	1.946E-08	1.063E-08	7.687E-09	5.128E-09	3.870E-09	2.845E-09	2.195E-09	1.761E-09	1.454E-09	1.226E-09	1.052E-09
WNW	4.298E-08	2.356E-08	1.578E-08	9.370E-09	6.318E-09	4.645E-09	3.617E-09	2.914E-09	2.404E-09	2.024E-09	1.734E-09
NW	4.989E-08	2.687E-08	1.785E-08	1.043E-08	6.921E-09	5.038E-09	3.927E-09	3.157E-09	2.607E-09	2.200E-09	1.890E-09
NNW	6.656E-08	3.709E-08	2.393E-08	1.360E-08	9.123E-09	6.693E-09	5.236E-09	4.250E-09	3.571E-09	3.037E-09	2.615E-09
N	3.050E-08	1.880E-08	1.503E-08	1.144E-08	9.344E-09	7.593E-09	5.927E-09	4.790E-09	3.975E-09	3.372E-09	2.910E-09
NNE	3.034E-08	4.098E-08	2.639E-08	1.497E-08	1.004E-08	7.358E-09	5.707E-09	4.601E-09	3.815E-09	3.232E-09	2.784E-09
NE	1.290E-08	2.381E-08	1.553E-08	8.957E-09	6.069E-09	4.486E-09	3.551E-09	2.905E-09	2.440E-09	2.073E-09	1.791E-09
ENE	8.884E-09	1.466E-08	9.777E-09	5.783E-09	3.973E-09	2.964E-09	2.474E-09	2.090E-09	1.739E-09	1.477E-09	1.275E-09
E	9.585E-09	1.280E-08	8.380E-09	4.844E-09	3.281E-09	2.423E-09	1.890E-09	1.530E-09	1.311E-09	1.137E-09	9.807E-10
ESE	1.427E-08	1.465E-08	9.602E-09	5.549E-09	3.759E-09	2.775E-09	2.164E-09	1.752E-09	1.458E-09	1.239E-09	1.070E-09
SE	1.762E-08	1.070E-08	8.143E-09	5.680E-09	4.088E-09	3.173E-09	2.585E-09	2.175E-09	1.805E-09	1.530E-09	1.319E-09
SSE	2.476E-08	2.759E-08	1.766E-08	9.927E-09	6.607E-09	4.817E-09	3.718E-09	2.985E-09	2.467E-09	2.083E-09	1.789E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.330E-08	6.887E-08	4.921E-08	3.692E-08	3.630E-08	2.116E-08	8.317E-09	4.188E-09	2.612E-09	1.832E-09
SSW	3.380E-08	4.530E-08	3.786E-08	3.438E-08	2.718E-08	1.631E-08	6.590E-09	3.268E-09	2.009E-09	1.389E-09
SW	3.694E-08	7.803E-08	4.908E-08	2.908E-08	2.003E-08	1.190E-08	4.922E-09	2.529E-09	1.605E-09	1.116E-09
WSW	4.501E-08	9.313E-08	5.528E-08	3.160E-08	2.132E-08	1.234E-08	5.613E-09	2.810E-09	1.745E-09	1.220E-09
W	1.269E-07	1.241E-07	6.224E-08	3.511E-08	2.316E-08	1.128E-08	5.138E-09	2.859E-09	1.768E-09	1.229E-09
WNW	1.910E-07	2.567E-07	1.360E-07	7.864E-08	5.140E-08	2.442E-08	9.437E-09	4.680E-09	2.921E-09	2.029E-09
NW	1.682E-07	3.101E-07	1.695E-07	9.324E-08	5.992E-08	2.798E-08	1.052E-08	5.096E-09	3.167E-09	2.206E-09
NNW	1.374E-07	1.795E-07	1.573E-07	1.176E-07	7.940E-08	3.779E-08	1.390E-08	6.758E-09	4.273E-09	3.039E-09
N	1.590E-07	1.022E-07	6.818E-08	4.729E-08	3.480E-08	1.973E-08	1.131E-08	7.393E-09	4.804E-09	3.380E-09
NNE	7.342E-08	6.895E-08	5.095E-08	3.680E-08	2.992E-08	3.213E-08	1.532E-08	7.412E-09	4.617E-09	3.239E-09
NE	1.692E-08	2.397E-08	2.010E-08	1.504E-08	1.252E-08	1.770E-08	9.134E-09	4.534E-09	2.913E-09	2.078E-09
ENE	1.142E-08	1.722E-08	1.446E-08	1.078E-08	8.828E-09	1.121E-08	5.866E-09	3.037E-09	2.066E-09	1.480E-09
E	1.590E-08	2.093E-08	1.659E-08	1.202E-08	9.646E-09	1.012E-08	4.935E-09	2.439E-09	1.550E-09	1.131E-09
ESE	2.734E-08	3.595E-08	2.751E-08	1.936E-08	1.493E-08	1.232E-08	5.654E-09	2.793E-09	1.757E-09	1.241E-09
SE	3.397E-08	4.836E-08	3.803E-08	2.710E-08	2.011E-08	1.110E-08	5.520E-09	3.182E-09	2.151E-09	1.534E-09
SSE	4.954E-08	5.981E-08	4.548E-08	3.210E-08	2.519E-08	2.255E-08	1.017E-08	4.855E-09	2.997E-09	2.088E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2005
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.398E-09	3.240E-08	6.534E-08	7.542E-08	7.269E-08	6.009E-08	4.838E-08	3.924E-08	3.234E-08	3.548E-08	3.689E-08
SSW	1.192E-09	1.331E-08	3.244E-08	4.441E-08	4.861E-08	4.188E-08	3.436E-08	3.571E-08	3.497E-08	2.979E-08	2.581E-08
SW	1.560E-11	1.867E-09	2.534E-08	6.316E-08	1.004E-07	6.683E-08	4.754E-08	3.569E-08	2.794E-08	2.259E-08	1.875E-08
WSW	5.119E-11	4.586E-09	3.162E-08	7.496E-08	1.232E-07	7.729E-08	5.328E-08	3.928E-08	3.041E-08	2.442E-08	2.018E-08
W	4.850E-10	3.870E-08	1.355E-07	1.616E-07	1.412E-07	8.693E-08	5.930E-08	4.343E-08	3.346E-08	2.677E-08	2.205E-08
WNW	1.203E-09	3.962E-08	1.732E-07	2.765E-07	3.181E-07	1.907E-07	1.277E-07	9.628E-08	7.599E-08	5.980E-08	4.852E-08
NW	5.589E-09	3.651E-08	1.270E-07	2.622E-07	4.177E-07	2.438E-07	1.607E-07	1.171E-07	8.984E-08	7.040E-08	5.691E-08
NNW	6.456E-08	1.014E-07	1.320E-07	1.554E-07	1.911E-07	1.772E-07	1.574E-07	1.368E-07	1.204E-07	9.430E-08	7.622E-08
N	1.520E-07	1.825E-07	1.694E-07	1.331E-07	1.013E-07	8.208E-08	6.718E-08	5.481E-08	4.562E-08	3.867E-08	3.330E-08
NNE	6.808E-09	5.246E-08	7.851E-08	7.741E-08	7.090E-08	6.029E-08	5.026E-08	4.210E-08	3.570E-08	3.068E-08	2.673E-08
NE	8.797E-11	6.634E-09	1.648E-08	2.201E-08	2.535E-08	2.320E-08	2.000E-08	1.707E-08	1.465E-08	1.271E-08	1.115E-08
ENE	4.304E-11	3.577E-09	1.080E-08	1.561E-08	1.833E-08	1.673E-08	1.439E-08	1.226E-08	1.051E-08	9.108E-09	7.982E-09
E	3.505E-10	6.577E-09	1.563E-08	2.040E-08	2.223E-08	1.958E-08	1.644E-08	1.378E-08	1.166E-08	1.001E-08	8.702E-09
ESE	1.504E-10	9.838E-09	2.680E-08	3.595E-08	3.840E-08	3.301E-08	2.719E-08	2.241E-08	1.871E-08	1.585E-08	1.362E-08
SE	1.724E-10	1.030E-08	3.227E-08	4.656E-08	5.187E-08	4.529E-08	3.767E-08	3.128E-08	2.625E-08	2.234E-08	1.927E-08
SSE	3.779E-09	2.510E-08	4.902E-08	6.102E-08	6.352E-08	5.451E-08	4.495E-08	3.712E-08	3.103E-08	2.632E-08	2.265E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.231E-08	2.080E-08	1.304E-08	7.000E-09	4.612E-09	3.309E-09	2.461E-09	1.913E-09	1.553E-09	1.292E-09	1.088E-09
SSW	2.332E-08	1.667E-08	1.041E-08	5.555E-09	3.673E-09	2.627E-09	1.966E-09	1.537E-09	1.241E-09	1.026E-09	8.645E-10
SW	1.700E-08	1.218E-08	7.711E-09	4.174E-09	2.751E-09	1.969E-09	1.513E-09	1.184E-09	9.570E-10	7.922E-10	6.684E-10
WSW	1.789E-08	1.195E-08	8.449E-09	5.069E-09	3.277E-09	2.333E-09	1.764E-09	1.391E-09	1.131E-09	9.421E-10	7.991E-10
W	1.858E-08	1.008E-08	7.256E-09	4.646E-09	3.353E-09	2.403E-09	1.814E-09	1.429E-09	1.161E-09	9.655E-10	8.181E-10
WNW	4.077E-08	2.179E-08	1.421E-08	7.997E-09	5.060E-09	3.545E-09	2.679E-09	2.107E-09	1.702E-09	1.406E-09	1.184E-09
NW	4.760E-08	2.495E-08	1.611E-08	8.911E-09	5.634E-09	3.940E-09	2.980E-09	2.338E-09	1.888E-09	1.562E-09	1.317E-09
NNW	6.441E-08	3.495E-08	2.188E-08	1.168E-08	7.298E-09	5.046E-09	3.760E-09	2.945E-09	2.410E-09	2.005E-09	1.691E-09
N	2.915E-08	1.781E-08	1.423E-08	1.088E-08	8.762E-09	6.858E-09	5.230E-09	4.141E-09	3.374E-09	2.815E-09	2.393E-09
NNE	2.928E-08	3.986E-08	2.493E-08	1.343E-08	8.554E-09	6.015E-09	4.503E-09	3.520E-09	2.839E-09	2.346E-09	1.976E-09
NE	1.249E-08	2.333E-08	1.478E-08	8.101E-09	5.223E-09	3.707E-09	2.846E-09	2.276E-09	1.876E-09	1.566E-09	1.331E-09
ENE	8.602E-09	1.442E-08	9.353E-09	5.212E-09	3.335E-09	2.346E-09	1.865E-09	1.520E-09	1.231E-09	1.022E-09	8.634E-10
E	9.220E-09	1.245E-08	7.922E-09	4.317E-09	2.729E-09	1.904E-09	1.414E-09	1.097E-09	9.032E-10	7.572E-10	6.363E-10
ESE	1.362E-08	1.406E-08	8.964E-09	4.902E-09	3.117E-09	2.184E-09	1.627E-09	1.265E-09	1.015E-09	8.346E-10	6.993E-10
SE	1.682E-08	1.009E-08	7.643E-09	5.330E-09	3.837E-09	2.988E-09	2.446E-09	2.064E-09	1.692E-09	1.419E-09	1.211E-09
SSE	2.368E-08	2.652E-08	1.648E-08	8.804E-09	5.589E-09	3.919E-09	2.927E-09	2.283E-09	1.839E-09	1.517E-09	1.276E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT
SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.250E-08	6.770E-08	4.785E-08	3.551E-08	3.478E-08	1.991E-08	7.281E-09	3.317E-09	1.932E-09	1.293E-09
SSW	3.351E-08	4.469E-08	3.691E-08	3.321E-08	2.607E-08	1.537E-08	5.798E-09	2.642E-09	1.547E-09	1.030E-09
SW	3.693E-08	7.719E-08	4.794E-08	2.812E-08	1.924E-08	1.126E-08	4.327E-09	1.995E-09	1.192E-09	7.952E-10
WSW	4.487E-08	9.209E-08	5.409E-08	3.066E-08	2.059E-08	1.171E-08	5.024E-09	2.357E-09	1.399E-09	9.453E-10
W	1.256E-07	1.216E-07	6.032E-08	3.376E-08	2.216E-08	1.071E-08	4.651E-09	2.421E-09	1.437E-09	9.688E-10
WNW	1.894E-07	2.522E-07	1.319E-07	7.562E-08	4.899E-08	2.264E-08	8.073E-09	3.603E-09	2.116E-09	1.411E-09
NW	1.670E-07	3.058E-07	1.654E-07	9.021E-08	5.746E-08	2.605E-08	9.054E-09	4.007E-09	2.350E-09	1.568E-09
NNW	1.356E-07	1.770E-07	1.545E-07	1.152E-07	7.720E-08	3.569E-08	1.200E-08	5.132E-09	2.974E-09	2.009E-09
N	1.562E-07	9.982E-08	6.621E-08	4.560E-08	3.335E-08	1.874E-08	1.068E-08	6.714E-09	4.160E-09	2.824E-09
NNE	7.223E-08	6.763E-08	4.967E-08	3.562E-08	2.885E-08	3.087E-08	1.382E-08	6.087E-09	3.541E-09	2.355E-09
NE	1.675E-08	2.365E-08	1.968E-08	1.460E-08	1.211E-08	1.712E-08	8.307E-09	3.767E-09	2.286E-09	1.571E-09
ENE	1.133E-08	1.702E-08	1.416E-08	1.048E-08	8.545E-09	1.088E-08	5.298E-09	2.417E-09	1.508E-09	1.025E-09
E	1.574E-08	2.064E-08	1.621E-08	1.164E-08	9.281E-09	9.719E-09	4.412E-09	1.928E-09	1.114E-09	7.557E-10
ESE	2.710E-08	3.546E-08	2.683E-08	1.868E-08	1.428E-08	1.170E-08	5.011E-09	2.210E-09	1.273E-09	8.380E-10
SE	3.374E-08	4.777E-08	3.714E-08	2.620E-08	1.927E-08	1.050E-08	5.180E-09	2.997E-09	2.031E-09	1.422E-09
SSE	4.904E-08	5.896E-08	4.437E-08	3.098E-08	2.412E-08	2.143E-08	9.081E-09	3.968E-09	2.298E-09	1.523E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.671E-09	3.360E-09	3.410E-09	2.673E-09	1.436E-09	9.157E-10	6.315E-10	4.583E-10	3.450E-10	2.782E-10	2.540E-10
SSW	1.458E-09	1.487E-09	1.711E-09	1.438E-09	8.073E-10	5.230E-10	3.634E-10	2.648E-10	2.480E-10	1.876E-10	1.468E-10
SW	1.781E-10	3.771E-10	6.642E-10	6.562E-10	7.741E-10	4.225E-10	2.621E-10	1.781E-10	1.287E-10	9.736E-11	7.619E-11
WSW	4.299E-10	5.057E-10	6.606E-10	1.071E-09	6.483E-10	3.516E-10	2.172E-10	1.472E-10	1.063E-10	8.030E-11	6.283E-11
W	5.041E-10	2.923E-09	2.629E-09	1.699E-09	8.177E-10	4.382E-10	2.689E-10	1.812E-10	1.303E-10	9.810E-11	7.658E-11
WNW	2.134E-09	2.091E-09	5.700E-09	4.079E-09	2.463E-09	1.242E-09	7.368E-10	4.881E-10	3.590E-10	2.722E-10	2.173E-10
NW	3.718E-09	3.296E-09	3.204E-09	4.973E-09	3.081E-09	1.534E-09	9.068E-10	6.012E-10	4.336E-10	3.341E-10	2.717E-10
NNW	9.742E-09	7.643E-09	6.078E-09	3.957E-09	2.900E-09	1.553E-09	9.628E-10	7.621E-10	5.573E-10	4.364E-10	3.608E-10
N	2.044E-08	1.550E-08	1.151E-08	6.993E-09	3.026E-09	1.758E-09	1.154E-09	8.155E-10	6.056E-10	4.663E-10	3.691E-10
NNE	5.454E-09	4.380E-09	3.640E-09	2.466E-09	1.185E-09	7.233E-10	4.875E-10	3.497E-10	2.616E-10	2.021E-10	1.600E-10
NE	8.231E-10	7.910E-10	8.519E-10	6.915E-10	3.800E-10	2.443E-10	1.692E-10	1.230E-10	9.271E-11	7.181E-11	5.686E-11
ENE	3.574E-10	4.163E-10	5.396E-10	4.794E-10	2.778E-10	1.819E-10	1.271E-10	9.281E-11	7.010E-11	5.435E-11	4.304E-11
E	7.604E-10	7.600E-10	8.555E-10	7.111E-10	3.966E-10	2.563E-10	1.779E-10	1.295E-10	9.769E-11	7.569E-11	5.993E-11
ESE	1.464E-09	1.528E-09	1.797E-09	1.527E-09	8.629E-10	5.602E-10	3.897E-10	2.841E-10	2.144E-10	1.661E-10	1.316E-10
SE	1.888E-09	1.997E-09	2.379E-09	2.035E-09	1.154E-09	7.504E-10	5.223E-10	3.809E-10	2.874E-10	2.228E-10	1.764E-10
SSE	3.149E-09	2.994E-09	3.185E-09	2.567E-09	1.404E-09	9.014E-10	6.236E-10	4.533E-10	3.416E-10	2.645E-10	2.095E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.043E-10	1.257E-10	8.268E-11	4.641E-11	2.924E-11	2.250E-11	1.611E-11	1.208E-11	9.520E-12	7.598E-12	6.202E-12
SSW	1.188E-10	7.580E-11	5.036E-11	2.848E-11	1.911E-11	1.357E-11	9.722E-12	7.302E-12	5.733E-12	4.580E-12	3.738E-12
SW	6.165E-11	4.662E-11	3.232E-11	1.893E-11	1.197E-11	8.518E-12	6.049E-12	4.542E-12	3.531E-12	2.821E-12	2.302E-12
WSW	5.078E-11	4.208E-11	2.986E-11	1.857E-11	1.124E-11	7.536E-12	5.441E-12	4.085E-12	3.176E-12	2.537E-12	2.071E-12
W	6.154E-11	2.761E-11	3.332E-11	2.035E-11	1.307E-11	8.828E-12	6.326E-12	4.750E-12	3.693E-12	2.950E-12	2.408E-12
WNW	1.826E-10	9.956E-11	6.742E-11	3.883E-11	2.639E-11	1.791E-11	1.274E-11	9.572E-12	7.522E-12	6.009E-12	4.905E-12
NW	2.318E-10	1.346E-10	9.434E-11	5.947E-11	3.624E-11	2.427E-11	1.733E-11	1.301E-11	1.017E-11	8.126E-12	6.633E-12
NNW	3.125E-10	1.902E-10	1.365E-10	8.283E-11	5.337E-11	3.590E-11	2.457E-11	1.812E-11	1.414E-11	1.130E-11	9.220E-12
N	2.987E-10	1.432E-10	8.851E-11	4.810E-11	8.232E-11	5.205E-11	3.727E-11	2.799E-11	2.176E-11	1.739E-11	1.419E-11
NNE	1.292E-10	1.872E-10	1.171E-10	6.157E-11	3.774E-11	2.526E-11	1.803E-11	1.348E-11	1.044E-11	8.318E-12	6.774E-12
NE	4.585E-11	9.302E-11	5.799E-11	3.035E-11	1.858E-11	1.244E-11	8.855E-12	6.587E-12	5.123E-12	4.153E-12	3.390E-12
ENE	3.469E-11	5.230E-11	3.967E-11	2.496E-11	1.604E-11	1.062E-11	7.441E-12	4.863E-12	3.779E-12	3.019E-12	2.464E-12
E	4.832E-11	5.610E-11	4.094E-11	2.504E-11	1.602E-11	1.065E-11	7.502E-12	5.519E-12	4.219E-12	3.306E-12	2.693E-12
ESE	1.061E-10	9.577E-11	6.631E-11	3.887E-11	2.465E-11	1.644E-11	1.166E-11	8.640E-12	6.648E-12	5.274E-12	4.283E-12
SE	1.422E-10	6.748E-11	4.123E-11	2.181E-11	1.338E-11	9.253E-12	6.940E-12	1.205E-11	9.297E-12	7.400E-12	6.036E-12
SSE	1.689E-10	1.949E-10	1.194E-10	6.123E-11	3.722E-11	2.493E-11	1.783E-11	1.337E-11	1.038E-11	8.280E-12	6.752E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.072E-09	1.480E-09	6.380E-10	3.519E-10	2.428E-10	1.240E-10	4.684E-11	2.174E-11	1.226E-11	7.651E-12
SSW	1.540E-09	8.211E-10	3.665E-10	2.298E-10	1.485E-10	7.405E-11	2.918E-11	1.351E-11	7.396E-12	4.610E-12
SW	5.969E-10	5.916E-10	2.713E-10	1.309E-10	7.708E-11	4.360E-11	1.881E-11	8.452E-12	4.587E-12	2.839E-12
WSW	8.087E-10	6.104E-10	2.250E-10	1.081E-10	6.354E-11	3.858E-11	1.782E-11	7.686E-12	4.126E-12	2.554E-12
W	2.281E-09	8.448E-10	2.790E-10	1.326E-10	7.739E-11	3.769E-11	2.000E-11	8.957E-12	4.798E-12	2.970E-12
WNW	4.178E-09	2.280E-09	7.721E-10	3.628E-10	2.207E-10	1.037E-10	3.965E-11	1.810E-11	9.698E-12	6.048E-12
NW	4.011E-09	2.814E-09	9.519E-10	4.436E-10	2.754E-10	1.383E-10	5.690E-11	2.468E-11	1.316E-11	8.180E-12
NNW	5.483E-09	2.536E-09	1.040E-09	5.697E-10	3.653E-10	1.935E-10	8.167E-11	3.603E-11	1.845E-11	1.137E-11
N	1.039E-08	3.344E-09	1.180E-09	6.125E-10	3.718E-10	1.535E-10	7.229E-11	5.421E-11	2.827E-11	1.750E-11
NNE	3.283E-09	1.265E-09	4.952E-10	2.641E-10	1.611E-10	1.432E-10	6.333E-11	2.569E-11	1.362E-11	8.376E-12
NE	7.671E-10	3.889E-10	1.707E-10	9.341E-11	5.721E-11	6.697E-11	3.126E-11	1.264E-11	6.677E-12	4.158E-12
ENE	4.854E-10	2.800E-10	1.280E-10	7.059E-11	4.330E-11	4.277E-11	2.426E-11	1.079E-11	5.187E-12	3.039E-12
E	7.701E-10	4.041E-10	1.795E-10	9.841E-11	6.030E-11	4.763E-11	2.456E-11	1.082E-11	5.590E-12	3.350E-12
ESE	1.617E-09	8.759E-10	3.930E-10	2.159E-10	1.324E-10	8.496E-11	3.865E-11	1.672E-11	8.743E-12	5.314E-12
SE	2.141E-09	1.170E-09	5.266E-10	2.895E-10	1.775E-10	7.242E-11	2.238E-11	9.429E-12	9.539E-12	7.457E-12
SSE	2.868E-09	1.439E-09	6.296E-10	3.442E-10	2.108E-10	1.556E-10	6.350E-11	2.537E-11	1.350E-11	8.335E-12

ERP ELEVATED STACK RELEASES - JAN-DEC 2005
CORRECTED USING STANDARD OPEN TERRAIN FACTORS
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	6.9E-08	6.9E-08	6.8E-08	3.3E-09	
A	Site Boundary	SSW	.82	3.7E-08	3.7E-08	3.7E-08	1.7E-09	
A	Site Boundary	SW	.97	6.0E-08	6.0E-08	6.0E-08	6.7E-10	
A	Site Boundary	WSW	.93	6.2E-08	6.2E-08	6.2E-08	8.9E-10	
A	Site Boundary	W	.91	1.6E-07	1.6E-07	1.6E-07	1.9E-09	
A	Site Boundary	WNW	.94	2.6E-07	2.6E-07	2.6E-07	4.6E-09	
A	Site Boundary	NW	.81	1.6E-07	1.6E-07	1.6E-07	3.0E-09	
A	Site Boundary	NNW	.69	1.2E-07	1.2E-07	1.2E-07	6.4E-09	
A	Site Boundary	N	.67	1.7E-07	1.7E-07	1.7E-07	1.2E-08	
A	Site Boundary	NNE	.60	6.5E-08	6.5E-08	6.4E-08	4.0E-09	
A	Site Boundary	NE	.62	1.1E-08	1.1E-08	1.1E-08	8.1E-10	
A	Site Boundary	ENE	.59	5.7E-09	5.7E-09	5.6E-09	4.5E-10	
A	Site Boundary	E	.53	7.4E-09	7.4E-09	7.3E-09	7.6E-10	
A	Site Boundary	ESE	.54	1.2E-08	1.2E-08	1.2E-08	1.6E-09	
A	Site Boundary	SE	.65	2.2E-08	2.2E-08	2.2E-08	2.2E-09	
A	Site Boundary	SSE	.81	5.3E-08	5.3E-08	5.3E-08	3.1E-09	
A	Nearest Res	SW	1.30	9.3E-08	9.3E-08	9.3E-08	1.0E-09	
A	Nearest Res	WSW	1.30	1.1E-07	1.1E-07	1.1E-07	8.6E-10	
A	Nearest Res	W	1.00	1.6E-07	1.6E-07	1.6E-07	1.7E-09	
A	Nearest Res	WNW	1.70	2.6E-07	2.6E-07	2.5E-07	1.8E-09	
A	Nearest Res	NW	.90	2.1E-07	2.1E-07	2.1E-07	5.6E-09	
A	Nearest Res	NNW	1.90	1.8E-07	1.8E-07	1.8E-07	1.7E-09	
A	Nearest Res	N	3.00	5.7E-08	5.7E-08	5.5E-08	8.2E-10	
A	Nearest Res	ENE	1.70	1.8E-08	1.8E-08	1.8E-08	2.3E-10	
A	Nearest Res	E	1.90	2.1E-08	2.1E-08	2.0E-08	2.8E-10	
A	Nearest Res	ESE	2.30	3.0E-08	3.0E-08	2.9E-08	4.5E-10	
A	Nearest Res	SE	3.20	3.0E-08	3.0E-08	2.9E-08	3.4E-10	
A	Nearest Cow	NNW	3.50	1.2E-07	1.2E-07	1.2E-07	5.6E-10	
A	Nearest Garde	SW	2.20	5.9E-08	5.9E-08	5.8E-08	3.4E-10	
A	Nearest Garde	WSW	1.90	8.6E-08	8.5E-08	8.4E-08	3.9E-10	
A	Nearest Garde	WNW	2.40	1.4E-07	1.4E-07	1.4E-07	8.1E-10	
A	Nearest Garde	ESE	3.00	2.3E-08	2.3E-08	2.2E-08	2.8E-10	
A	Nearest Garde	SE	3.50	2.7E-08	2.7E-08	2.6E-08	2.9E-10	
A	MAXIMUM CHI/Q	S	1.00	7.6E-08	7.6E-08	7.5E-08	2.7E-09	
A	MAXIMUM CHI/Q	SSW	1.50	4.9E-08	4.9E-08	4.9E-08	8.1E-10	
A	MAXIMUM CHI/Q	SW	1.50	1.0E-07	1.0E-07	1.0E-07	7.7E-10	
A	MAXIMUM CHI/Q	WSW	1.50	1.2E-07	1.2E-07	1.2E-07	6.5E-10	
A	MAXIMUM CHI/Q	W	1.00	1.6E-07	1.6E-07	1.6E-07	1.7E-09	
A	MAXIMUM CHI/Q	WNW	1.50	3.2E-07	3.2E-07	3.2E-07	2.5E-09	
A	MAXIMUM CHI/Q	NW	1.50	4.2E-07	4.2E-07	4.2E-07	3.1E-09	
A	MAXIMUM CHI/Q	NNW	1.50	1.9E-07	1.9E-07	1.9E-07	2.9E-09	
A	MAXIMUM CHI/Q	N	.50	1.8E-07	1.8E-07	1.8E-07	1.6E-08	
A	MAXIMUM CHI/Q	NNE	.75	8.0E-08	8.0E-08	7.9E-08	3.6E-09	
A	MAXIMUM CHI/Q	NE	1.50	2.6E-08	2.6E-08	2.5E-08	3.8E-10	
A	MAXIMUM CHI/Q	ENE	1.50	1.9E-08	1.9E-08	1.8E-08	2.8E-10	
A	MAXIMUM CHI/Q	E	1.50	2.3E-08	2.3E-08	2.2E-08	4.0E-10	
A	MAXIMUM CHI/Q	ESE	1.50	3.9E-08	3.9E-08	3.8E-08	8.6E-10	
A	MAXIMUM CHI/Q	SE	1.50	5.3E-08	5.2E-08	5.2E-08	1.2E-09	
A	MAXIMUM CHI/Q	SSE	1.50	6.4E-08	6.4E-08	6.4E-08	1.4E-09	

ATMOSPHERIC DIFFUSION MODEL

Onsite meteorological data from January 1 through December 31, 2005 were used to determine long-term (routine) diffusion estimates for evaluating normal atmospheric releases from Cooper Nuclear Station. Atmospheric dispersion parameters (X/Q values) were determined for the site boundary distances from each release point, the standard population distances, and special locations for nearest residence, cow, and garden using the methodology presented in U.S. NRC Regulatory Guide 1.111 (Rev.1) and the computer code XOQDOQ (NUREG/CR2919). Two release modes were analyzed. Releases from the 99-meter free-standing stack were considered 100 percent elevated, while releases from the reactor building, turbine-generator building, radwaste building and augmented radwaste building vents were considered as a 100 percent ground level release (one combined source term was assumed to apply for these vents).

Winds were obtained from measurements at the 10-meter level (for ground-level releases) and the 100-meter level (for elevated releases), and the stability class was based on the vertical temperature gradient between 60 meters and 10 meters (for ground releases) and 100 meters and 10 meters (for elevated releases). In accordance with Regulatory Guide 1.111, calm periods were distributed directionally in proportion to the directional distribution within a stability class of the lowest wind speed group. For the calculations, calm periods were assigned a speed of one-half the threshold wind speed of the wind vane or anemometer, whichever is higher.

The Gaussian straight-line trajectory model, which assumes that the air flow transports and diffuses effluents along a straight line through the entire region of interest in the airflow direction at the release point, was modified to account for various modes of effluent releases. In the case of an elevated release, plume rise due to momentum effects was incorporated into the calculation. For ground-level releases, building wake effects were considered.

The mathematical equation used in the Gaussian straight-line trajectory model is:

$$(X/Q)_i = 2.032 \sum_{jk} \frac{f_{ijk}}{x u_{jk} \Sigma_{zk}} \exp\left[\frac{-\frac{1}{2} h_e^2}{\sigma_{zk}^2}\right] \qquad \text{(Eq. 1)}$$

and

$$\Sigma_{zk} = \left(\sigma_{zk}^2 + 0.5 D_z^2/\pi\right)^{1/2} \le \sqrt{3}\sigma_{zk} \qquad \text{(Eq. 2)}$$

where I = index identifying direction sector;

j = index identifying wind speed class;

k = index identifying atmospheric stability class;

$\frac{X}{Q}$ = average effluent concentration normalized by source strength at the specific downwind distance;

f = joint frequency distribution of wind direction, wind speed class, and atmospheric stability class;

x = distance from the release point to a receptor;

u = wind speed;

Σ_z = vertical plume spread with volumetric building wake correction for a release within the building wake cavity;

σ_z = vertical plume spread without volumetric building wake correction;

D_z = maximum adjacent building height either upwind or downwind of the release point (44.5 meters for ground-level releases);
and

h_e = effective plume height;

The term Σ_{zk} given in Equations 1 and 2 is used for ground-level release (h = 0) within the building wake cavity. For an elevated release, no volumetric building wake correction needs to be considered, i.e., $\Sigma_{zk} = \sigma_{zk}$. For all building wake determinations, the reactor building was considered to be the dominating structure in the modification of air flows within the building complex.

Since the model does not directly consider the effects of spatial and temporal variation in airflow due to terrain, appropriate adjustments were made to the calculated X/Q values, using the default values of Regulatory Guide 1.111, Rev. 0.

APPENDIX C

DOSE CALCULATIONS

CONTENTS

	Page
LIQUID EFFLUENT DOSE CALCULATIONS	C1
GASEOUS EFFLUENT DOSE CALCULATIONS	C8
DOSE CALCULATION MODELS	C51

LIQUID EFFLUENT DOSE CALCULATIONS

Doses to the maximum individual and 0 to 50 - mile population resulting from the release of radioactive material in liquid effluents from Cooper Nuclear Station were calculated using the LADTAP II computer program. The LADTAP II program implements the radiological dose models of Regulatory Guide 1.109 for determining the radiation exposure to man from three principal exposure pathways in the aquatic environment -- potable water, aquatic foods, and recreational water use. Doses to both the maximum individual and 0 to 50 mile population are calculated as a function of age group and pathway for significant body organs, and are presented in Tables 1 - 6.

Assumptions and data sources used for input to the LADTAP II code are described in a separate section of this appendix (see page C51).

TABLE 1. **Doses to Maximum Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 2005 Cooper Nuclear Station**

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
2nd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 1st & 2nd Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing: April - November;
Drinking water and shoreline: January - December

TABLE 2. Doses to Maximum Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, July-December 2005, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
4th Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 3rd & 4th Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures:
Fishing: April - November; Drinking water and shoreline: January - December

TABLE 3. Summary of Doses to Maximum Individual at the Site Boundary, Resulting from Exposure to Radioactivity Discharged in Liquid Effluents, January-December 2005, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
2nd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
3rd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
4th Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals for 2005	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

TABLE 4. Doses to Population Within a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 2005, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
2nd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Swimming	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Boating	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 1st & 2nd Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing and Boating: April - November; Drinking water and shoreline: January - December; Swimming: June - September
Exposure from drinking water is calculated for the city of St. Joseph, Missouri, nearest public water intake from the Missouri River, 84 miles downstream

TABLE 5. Doses to Population Within a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, July-December 2005, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Swimming	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Boating	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
4th Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 3rd & 4th Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing and Boating: April - November; Drinking water and shoreline: January - December; Swimming: June - September
Exposure from drinking water is calculated for the city of St. Joseph, Missouri, nearest public water intake from the Missouri River, 84 miles downstream

TABLE 6. Summary of Doses to Population Within a 50-Mile Radius, Resulting from Exposure to Radioactivity Discharged in Liquid Effluents, January-December 2005, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
2nd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
3rd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
4th Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals for 2005	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

GASEOUS EFFLUENT DOSE CALCULATIONS

Doses to the maximum individual and 0 to 50 mile population resulting from the release of radioactive material in gaseous effluents from the Cooper Nuclear Station were calculated using the GASPAR computer code. Four sites were selected for individual dose calculations: the site boundary, the nearest residence, the nearest garden and the nearest cow. GASPAR implements the radiological dose models of Regulatory Guide 1.109 for determining the radiation exposure to man from four principal atmospheric exposure pathways: plume, ground, inhalation, and ingestion. Doses to the maximum individual and the population are calculated as a function of age group and pathway for significant body organs.

Tables 1 through 7 present maximum individual doses. Population doses are given in Tables 8 through 14.

Assumptions and data used for input to the GASPAR code are described in a separate section of this appendix (see page C51).

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2005

SPECIAL LOCATION NO. 1 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 7.99E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.24E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.31E-06	8.31E-06	8.31E-06	8.31E-06	8.31E-06	8.31E-06	8.39E-06	1.67E-05
GROUND	8.95E-03	8.95E-03	8.95E-03	8.95E-03	8.95E-03	8.95E-03	8.95E-03	1.05E-02
VEGET								
ADULT	2.09E-04	1.47E-03	6.05E-04	2.27E-04	9.42E-05	3.18E-03	4.98E-06	0.00E+00
TEEN	3.24E-04	1.56E-03	8.48E-04	3.46E-04	1.39E-04	4.29E-03	8.77E-06	0.00E+00
CHILD	6.51E-04	1.02E-03	1.78E-03	5.25E-04	2.06E-04	8.22E-03	1.28E-05	0.00E+00
MEAT								
ADULT	6.35E-05	4.03E-04	2.76E-05	7.95E-05	3.50E-05	8.57E-05	3.13E-06	0.00E+00
TEEN	5.03E-05	2.17E-04	1.99E-05	6.14E-05	2.57E-05	6.21E-05	2.80E-06	0.00E+00
CHILD	7.80E-05	1.10E-04	3.15E-05	7.19E-05	2.92E-05	9.37E-05	3.17E-06	0.00E+00
COW MILK								
ADULT	1.03E-04	3.62E-04	9.33E-05	2.10E-04	1.45E-04	2.38E-03	3.65E-07	0.00E+00
TEEN	1.77E-04	4.19E-04	1.45E-04	3.53E-04	2.35E-04	3.76E-03	7.14E-07	0.00E+00
CHILD	3.54E-04	2.71E-04	2.96E-04	5.36E-04	3.53E-04	7.43E-03	1.06E-06	0.00E+00
INFANT	4.73E-04	8.88E-04	4.06E-04	9.47E-04	4.85E-04	1.80E-02	2.16E-06	0.00E+00
GOATMILK								
ADULT	1.80E-05	4.76E-05	6.68E-05	3.34E-05	3.10E-05	2.85E-03	7.77E-08	0.00E+00
TEEN	3.05E-05	5.58E-05	1.05E-04	5.69E-05	5.25E-05	4.51E-03	1.55E-07	0.00E+00
CHILD	6.00E-05	3.70E-05	2.24E-04	8.95E-05	8.26E-05	8.91E-03	2.34E-07	0.00E+00
INFANT	8.74E-05	1.11E-04	3.00E-04	1.75E-04	1.28E-04	2.17E-02	4.55E-07	0.00E+00
INHAL								
ADULT	3.87E-06	4.71E-05	8.02E-06	6.76E-06	3.77E-06	2.97E-04	8.25E-04	0.00E+00
TEEN	5.15E-06	5.48E-05	9.58E-06	8.87E-06	4.96E-06	3.69E-04	1.21E-03	0.00E+00
CHILD	5.81E-06	1.02E-04	1.14E-05	7.75E-06	4.34E-06	4.17E-04	9.77E-04	0.00E+00
INFANT	3.04E-06	7.81E-05	5.41E-06	5.01E-06	2.45E-06	3.81E-04	6.32E-04	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2005 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .60 MILES NNE

ANNUAL BETA AIR DOSE = 2.17E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.37E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.26E-05	2.26E-05	2.26E-05	2.26E-05	2.26E-05	2.26E-05	2.28E-05	4.54E-05
GROUND	8.24E-03	8.24E-03	8.24E-03	8.24E-03	8.24E-03	8.24E-03	8.24E-03	9.70E-03
VEGET								
ADULT	1.93E-04	1.36E-03	5.58E-04	2.12E-04	8.86E-05	2.98E-03	4.59E-06	0.00E+00
TEEN	3.00E-04	1.44E-03	7.85E-04	3.22E-04	1.30E-04	4.02E-03	8.09E-06	0.00E+00
CHILD	6.03E-04	9.42E-04	1.65E-03	4.89E-04	1.93E-04	7.70E-03	1.18E-05	0.00E+00
MEAT								
ADULT	5.90E-05	3.72E-04	2.58E-05	7.43E-05	3.30E-05	8.03E-05	2.87E-06	0.00E+00
TEEN	4.67E-05	2.00E-04	1.86E-05	5.74E-05	2.43E-05	5.82E-05	2.57E-06	0.00E+00
CHILD	7.24E-05	1.01E-04	2.94E-05	6.72E-05	2.75E-05	8.78E-05	2.91E-06	0.00E+00
COW MILK								
ADULT	9.66E-05	3.43E-04	8.76E-05	1.98E-04	1.37E-04	2.23E-03	3.50E-07	0.00E+00
TEEN	1.67E-04	3.96E-04	1.36E-04	3.33E-04	2.22E-04	3.52E-03	6.88E-07	0.00E+00
CHILD	3.34E-04	2.57E-04	2.78E-04	5.05E-04	3.33E-04	6.96E-03	1.02E-06	0.00E+00
INFANT	4.45E-04	8.38E-04	3.82E-04	8.93E-04	4.58E-04	1.69E-02	2.07E-06	0.00E+00
GOATMILK								
ADULT	1.72E-05	4.51E-05	6.22E-05	3.19E-05	2.93E-05	2.67E-03	1.18E-07	0.00E+00
TEEN	2.89E-05	5.29E-05	9.79E-05	5.43E-05	4.96E-05	4.23E-03	2.40E-07	0.00E+00
CHILD	5.65E-05	3.50E-05	2.10E-04	8.55E-05	7.81E-05	8.36E-03	3.63E-07	0.00E+00
INFANT	8.23E-05	1.05E-04	2.83E-04	1.67E-04	1.21E-04	2.03E-02	6.87E-07	0.00E+00
INHAL								
ADULT	2.28E-06	2.78E-05	4.73E-06	3.99E-06	2.22E-06	1.74E-04	4.86E-04	0.00E+00
TEEN	3.04E-06	3.23E-05	5.64E-06	5.23E-06	2.92E-06	2.16E-04	7.10E-04	0.00E+00
CHILD	3.42E-06	6.01E-05	6.72E-06	4.57E-06	2.56E-06	2.44E-04	5.76E-04	0.00E+00
INFANT	1.79E-06	4.63E-05	3.19E-06	2.96E-06	1.44E-06	2.23E-04	3.72E-04	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2005 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 8.43E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.31E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.77E-05	8.77E-05	8.77E-05	8.77E-05	8.77E-05	8.77E-05	8.86E-05	1.76E-04
GROUND	3.69E-03	3.69E-03	3.69E-03	3.69E-03	3.69E-03	3.69E-03	3.69E-03	4.34E-03
VEGET								
ADULT	8.79E-05	6.13E-04	2.52E-04	9.76E-05	4.18E-05	1.40E-03	2.06E-06	0.00E+00
TEEN	1.37E-04	6.51E-04	3.56E-04	1.49E-04	6.16E-05	1.88E-03	3.63E-06	0.00E+00
CHILD	2.74E-04	4.25E-04	7.51E-04	2.26E-04	9.14E-05	3.61E-03	5.31E-06	0.00E+00
MEAT								
ADULT	2.70E-05	1.68E-04	1.20E-05	3.46E-05	1.57E-05	3.77E-05	1.27E-06	0.00E+00
TEEN	2.14E-05	9.03E-05	8.65E-06	2.68E-05	1.16E-05	2.73E-05	1.14E-06	0.00E+00
CHILD	3.31E-05	4.57E-05	1.37E-05	3.13E-05	1.31E-05	4.12E-05	1.29E-06	0.00E+00
COW MILK								
ADULT	4.59E-05	1.65E-04	4.12E-05	9.46E-05	6.54E-05	1.05E-03	1.75E-07	0.00E+00
TEEN	7.91E-05	1.91E-04	6.43E-05	1.59E-04	1.06E-04	1.66E-03	3.45E-07	0.00E+00
CHILD	1.58E-04	1.24E-04	1.31E-04	2.41E-04	1.59E-04	3.27E-03	5.14E-07	0.00E+00
INFANT	2.11E-04	4.00E-04	1.82E-04	4.26E-04	2.18E-04	7.95E-03	1.03E-06	0.00E+00
GOATMILK								
ADULT	8.45E-06	2.17E-05	2.86E-05	1.56E-05	1.41E-05	1.26E-03	1.12E-07	0.00E+00
TEEN	1.40E-05	2.55E-05	4.54E-05	2.67E-05	2.38E-05	1.99E-03	2.29E-07	0.00E+00
CHILD	2.69E-05	1.69E-05	9.79E-05	4.21E-05	3.75E-05	3.93E-03	3.49E-07	0.00E+00
INFANT	3.91E-05	5.01E-05	1.35E-04	8.22E-05	5.82E-05	9.54E-03	6.45E-07	0.00E+00
INHAL								
ADULT	1.04E-06	1.25E-05	2.12E-06	1.83E-06	1.04E-06	8.10E-05	2.17E-04	0.00E+00
TEEN	1.39E-06	1.47E-05	2.54E-06	2.40E-06	1.37E-06	1.01E-04	3.17E-04	0.00E+00
CHILD	1.57E-06	2.82E-05	3.04E-06	2.10E-06	1.20E-06	1.14E-04	2.57E-04	0.00E+00
INFANT	8.26E-07	2.18E-05	1.46E-06	1.37E-06	6.81E-07	1.04E-04	1.66E-04	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2005 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 4.44E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 6.87E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.62E-05	4.62E-05	4.62E-05	4.62E-05	4.62E-05	4.62E-05	4.66E-05	9.27E-05
GROUND	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.24E-04
VEGET								
ADULT	2.64E-06	1.80E-05	7.39E-06	3.04E-06	1.38E-06	4.51E-05	5.97E-08	0.00E+00
TEEN	4.10E-06	1.91E-05	1.06E-05	4.64E-06	2.03E-06	6.08E-05	1.05E-07	0.00E+00
CHILD	8.21E-06	1.25E-05	2.27E-05	7.03E-06	3.01E-06	1.17E-04	1.54E-07	0.00E+00
MEAT								
ADULT	8.26E-07	4.93E-06	3.80E-07	1.11E-06	5.30E-07	1.21E-06	3.56E-08	0.00E+00
TEEN	6.54E-07	2.65E-06	2.75E-07	8.55E-07	3.90E-07	8.79E-07	3.19E-08	0.00E+00
CHILD	1.01E-06	1.34E-06	4.34E-07	9.98E-07	4.42E-07	1.33E-06	3.61E-08	0.00E+00
COW MILK								
ADULT	1.53E-06	5.68E-06	1.35E-06	3.19E-06	2.20E-06	3.39E-05	6.47E-09	0.00E+00
TEEN	2.64E-06	6.56E-06	2.11E-06	5.35E-06	3.57E-06	5.36E-05	1.29E-08	0.00E+00
CHILD	5.27E-06	4.25E-06	4.32E-06	8.12E-06	5.35E-06	1.06E-04	1.94E-08	0.00E+00
INFANT	6.99E-06	1.36E-05	6.09E-06	1.43E-05	7.34E-06	2.58E-04	3.79E-08	0.00E+00
GOATMILK								
ADULT	3.03E-07	7.48E-07	8.87E-07	5.58E-07	4.80E-07	4.06E-05	7.91E-09	0.00E+00
TEEN	4.83E-07	8.77E-07	1.43E-06	9.54E-07	8.12E-07	6.43E-05	1.63E-08	0.00E+00
CHILD	9.05E-07	5.82E-07	3.14E-06	1.52E-06	1.28E-06	1.27E-04	2.50E-08	0.00E+00
INFANT	1.31E-06	1.70E-06	4.56E-06	2.95E-06	1.98E-06	3.09E-04	4.56E-08	0.00E+00
INHAL								
ADULT	7.92E-08	8.46E-07	1.45E-07	1.42E-07	8.89E-08	6.47E-06	1.40E-05	0.00E+00
TEEN	1.06E-07	9.53E-07	1.77E-07	1.88E-07	1.18E-07	8.09E-06	2.04E-05	0.00E+00
CHILD	1.20E-07	1.65E-06	2.14E-07	1.67E-07	1.05E-07	9.29E-06	1.66E-05	0.00E+00
INFANT	6.59E-08	1.29E-06	1.11E-07	1.15E-07	6.10E-08	8.51E-06	1.07E-05	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2005 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES WSW

ANNUAL BETA AIR DOSE = 4.88E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.56E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.08E-05	5.08E-05	5.08E-05	5.08E-05	5.08E-05	5.08E-05	5.13E-05	1.02E-04
GROUND	2.04E-04	2.04E-04	2.04E-04	2.04E-04	2.04E-04	2.04E-04	2.04E-04	2.40E-04
VEGET								
ADULT	4.96E-06	3.42E-05	1.41E-05	5.60E-06	2.46E-06	8.17E-05	1.14E-07	0.00E+00
TEEN	7.70E-06	3.63E-05	2.00E-05	8.53E-06	3.62E-06	1.10E-04	2.02E-07	0.00E+00
CHILD	1.54E-05	2.37E-05	4.25E-05	1.29E-05	5.38E-06	2.11E-04	2.95E-07	0.00E+00
MEAT								
ADULT	1.54E-06	9.37E-06	6.93E-07	2.01E-06	9.35E-07	2.20E-06	6.97E-08	0.00E+00
TEEN	1.22E-06	5.04E-06	5.00E-07	1.55E-06	6.87E-07	1.59E-06	6.24E-08	0.00E+00
CHILD	1.88E-06	2.55E-06	7.91E-07	1.81E-06	7.80E-07	2.40E-06	7.06E-08	0.00E+00
COW MILK								
ADULT	2.72E-06	9.91E-06	2.41E-06	5.62E-06	3.89E-06	6.12E-05	1.09E-08	0.00E+00
TEEN	4.68E-06	1.14E-05	3.77E-06	9.45E-06	6.29E-06	9.68E-05	2.16E-08	0.00E+00
CHILD	9.36E-06	7.41E-06	7.72E-06	1.43E-05	9.44E-06	1.92E-04	3.23E-08	0.00E+00
INFANT	1.24E-05	2.39E-05	1.08E-05	2.53E-05	1.30E-05	4.66E-04	6.40E-08	0.00E+00
GOATMILK								
ADULT	5.18E-07	1.30E-06	1.64E-06	9.56E-07	8.42E-07	7.34E-05	1.01E-08	0.00E+00
TEEN	8.41E-07	1.53E-06	2.62E-06	1.63E-06	1.43E-06	1.16E-04	2.08E-08	0.00E+00
CHILD	1.60E-06	1.02E-06	5.69E-06	2.59E-06	2.25E-06	2.30E-04	3.18E-08	0.00E+00
INFANT	2.32E-06	2.99E-06	8.04E-06	5.04E-06	3.48E-06	5.59E-04	5.82E-08	0.00E+00
INHAL								
ADULT	9.25E-08	1.04E-06	1.72E-07	1.65E-07	1.02E-07	7.52E-06	1.69E-05	0.00E+00
TEEN	1.23E-07	1.28E-06	2.09E-07	2.18E-07	1.36E-07	9.40E-06	2.46E-05	0.00E+00
CHILD	1.40E-07	2.86E-06	2.53E-07	1.94E-07	1.20E-07	1.08E-05	2.00E-05	0.00E+00
INFANT	7.63E-08	2.29E-06	1.29E-07	1.33E-07	6.98E-08	9.88E-06	1.30E-05	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2005

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 1.46E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.35E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.57E-04	1.57E-04	1.57E-04	1.57E-04	1.57E-04	1.57E-04	1.59E-04	3.12E-04
GROUND	2.37E-03	2.37E-03	2.37E-03	2.37E-03	2.37E-03	2.37E-03	2.37E-03	2.79E-03
VEGET								
ADULT	4.34E-04	8.41E-04	1.94E-02	3.88E-05	2.07E-05	3.18E-03	1.27E-07	0.00E+00
TEEN	6.00E-04	9.83E-04	2.66E-02	5.91E-05	3.14E-05	4.28E-03	2.39E-07	0.00E+00
CHILD	1.23E-03	7.34E-04	5.46E-02	9.24E-05	4.94E-05	8.20E-03	3.63E-07	0.00E+00
MEAT								
ADULT	1.43E-05	8.71E-05	2.31E-04	4.82E-06	5.34E-07	8.53E-05	1.03E-08	0.00E+00
TEEN	1.09E-05	4.74E-05	1.60E-04	3.75E-06	4.33E-07	6.18E-05	9.73E-09	0.00E+00
CHILD	1.70E-05	2.44E-05	2.54E-04	4.49E-06	5.42E-07	9.32E-05	1.14E-08	0.00E+00
COW MILK								
ADULT	2.43E-05	4.28E-05	8.75E-04	9.32E-06	1.31E-05	2.39E-03	8.64E-08	0.00E+00
TEEN	3.75E-05	5.50E-05	1.33E-03	1.64E-05	2.33E-05	3.79E-03	1.78E-07	0.00E+00
CHILD	7.56E-05	4.14E-05	2.75E-03	2.83E-05	3.87E-05	7.50E-03	2.74E-07	0.00E+00
INFANT	9.85E-05	3.98E-05	3.08E-03	6.68E-05	6.73E-05	1.82E-02	4.96E-07	0.00E+00
GOATMILK								
ADULT	4.35E-05	5.17E-05	1.83E-03	1.14E-05	1.61E-05	2.87E-03	2.58E-07	0.00E+00
TEEN	6.56E-05	7.04E-05	2.78E-03	2.01E-05	2.87E-05	4.54E-03	5.34E-07	0.00E+00
CHILD	1.33E-04	5.67E-05	5.76E-03	3.50E-05	4.77E-05	9.00E-03	8.21E-07	0.00E+00
INFANT	1.61E-04	5.69E-05	6.42E-03	8.20E-05	8.27E-05	2.19E-02	1.49E-06	0.00E+00
INHAL								
ADULT	3.00E-06	9.75E-06	1.22E-04	1.09E-06	1.15E-06	1.42E-04	1.51E-04	0.00E+00
TEEN	3.57E-06	1.56E-05	1.41E-04	1.47E-06	1.58E-06	1.81E-04	2.32E-04	0.00E+00
CHILD	4.09E-06	6.66E-05	1.63E-04	1.37E-06	1.47E-06	2.15E-04	1.95E-04	0.00E+00
INFANT	1.85E-06	5.69E-05	6.63E-05	1.12E-06	9.60E-07	1.97E-04	1.35E-04	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2005 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 1.68E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.70E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.81E-04	1.81E-04	1.81E-04	1.81E-04	1.81E-04	1.81E-04	1.83E-04	3.58E-04
GROUND	3.52E-03	3.52E-03	3.52E-03	3.52E-03	3.52E-03	3.52E-03	3.52E-03	4.14E-03
VEGET								
ADULT	6.44E-04	1.25E-03	2.88E-02	5.84E-05	3.18E-05	4.90E-03	2.08E-07	0.00E+00
TEEN	8.91E-04	1.46E-03	3.95E-02	8.88E-05	4.81E-05	6.59E-03	3.90E-07	0.00E+00
CHILD	1.83E-03	1.09E-03	8.10E-02	1.39E-04	7.58E-05	1.26E-02	5.93E-07	0.00E+00
MEAT								
ADULT	2.13E-05	1.29E-04	3.43E-04	7.18E-06	8.23E-07	1.31E-04	1.68E-08	0.00E+00
TEEN	1.61E-05	7.04E-05	2.38E-04	5.58E-06	6.67E-07	9.52E-05	1.59E-08	0.00E+00
CHILD	2.52E-05	3.62E-05	3.77E-04	6.69E-06	8.35E-07	1.44E-04	1.87E-08	0.00E+00
COW MILK								
ADULT	3.64E-05	6.37E-05	1.30E-03	1.44E-05	2.02E-05	3.68E-03	1.41E-07	0.00E+00
TEEN	5.61E-05	8.20E-05	1.97E-03	2.53E-05	3.59E-05	5.83E-03	2.92E-07	0.00E+00
CHILD	1.13E-04	6.16E-05	4.09E-03	4.36E-05	5.97E-05	1.16E-02	4.49E-07	0.00E+00
INFANT	1.48E-04	5.93E-05	4.57E-03	1.03E-04	1.04E-04	2.81E-02	8.12E-07	0.00E+00
GOATMILK								
ADULT	6.51E-05	7.70E-05	2.72E-03	1.77E-05	2.49E-05	4.42E-03	4.23E-07	0.00E+00
TEEN	9.80E-05	1.05E-04	4.12E-03	3.14E-05	4.43E-05	7.00E-03	8.74E-07	0.00E+00
CHILD	1.98E-04	8.45E-05	8.55E-03	5.46E-05	7.37E-05	1.39E-02	1.34E-06	0.00E+00
INFANT	2.41E-04	8.48E-05	9.54E-03	1.28E-04	1.28E-04	3.37E-02	2.43E-06	0.00E+00
INHAL								
ADULT	3.38E-06	1.10E-05	1.37E-04	1.24E-06	1.32E-06	1.64E-04	1.70E-04	0.00E+00
TEEN	4.02E-06	1.75E-05	1.58E-04	1.68E-06	1.82E-06	2.09E-04	2.61E-04	0.00E+00
CHILD	4.61E-06	7.48E-05	1.83E-04	1.57E-06	1.69E-06	2.48E-04	2.19E-04	0.00E+00
INFANT	2.09E-06	6.40E-05	7.45E-05	1.28E-06	1.11E-06	2.27E-04	1.51E-04	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2005 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 1.83E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.93E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.97E-04	1.97E-04	1.97E-04	1.97E-04	1.97E-04	1.97E-04	1.99E-04	3.89E-04
GROUND	1.03E-03	1.03E-03	1.03E-03	1.03E-03	1.03E-03	1.03E-03	1.03E-03	1.21E-03
VEGET								
ADULT	1.89E-04	3.70E-04	8.42E-03	1.82E-05	1.09E-05	1.73E-03	9.24E-08	0.00E+00
TEEN	2.62E-04	4.33E-04	1.16E-02	2.78E-05	1.66E-05	2.33E-03	1.73E-07	0.00E+00
CHILD	5.38E-04	3.23E-04	2.37E-02	4.37E-05	2.62E-05	4.46E-03	2.63E-07	0.00E+00
MEAT								
ADULT	6.26E-06	3.79E-05	1.01E-04	2.15E-06	2.90E-07	4.64E-05	7.47E-09	0.00E+00
TEEN	4.73E-06	2.06E-05	6.97E-05	1.67E-06	2.35E-07	3.36E-05	7.07E-09	0.00E+00
CHILD	7.39E-06	1.06E-05	1.10E-04	2.01E-06	2.95E-07	5.07E-05	8.30E-09	0.00E+00
COW MILK								
ADULT	1.12E-05	1.90E-05	3.81E-04	5.07E-06	7.13E-06	1.30E-03	6.28E-08	0.00E+00
TEEN	1.72E-05	2.45E-05	5.78E-04	8.96E-06	1.27E-05	2.06E-03	1.30E-07	0.00E+00
CHILD	3.44E-05	1.84E-05	1.20E-03	1.55E-05	2.11E-05	4.07E-03	1.99E-07	0.00E+00
INFANT	4.57E-05	1.77E-05	1.35E-03	3.64E-05	3.67E-05	9.90E-03	3.61E-07	0.00E+00
GOATMILK								
ADULT	1.99E-05	2.30E-05	7.98E-04	6.57E-06	8.87E-06	1.56E-03	1.88E-07	0.00E+00
TEEN	2.99E-05	3.14E-05	1.21E-03	1.16E-05	1.58E-05	2.47E-03	3.88E-07	0.00E+00
CHILD	5.98E-05	2.52E-05	2.51E-03	2.02E-05	2.63E-05	4.89E-03	5.97E-07	0.00E+00
INFANT	7.39E-05	2.53E-05	2.81E-03	4.69E-05	4.55E-05	1.19E-02	1.08E-06	0.00E+00
INHAL								
ADULT	9.53E-07	3.31E-06	3.73E-05	3.94E-07	4.14E-07	5.03E-05	4.68E-05	0.00E+00
TEEN	1.14E-06	5.37E-06	4.31E-05	5.33E-07	5.70E-07	6.38E-05	7.19E-05	0.00E+00
CHILD	1.30E-06	2.27E-05	5.01E-05	5.02E-07	5.32E-07	7.53E-05	6.03E-05	0.00E+00
INFANT	6.03E-07	1.94E-05	2.04E-05	4.18E-07	3.48E-07	6.91E-05	4.18E-05	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2005 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 8.05E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.29E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.66E-05	8.66E-05	8.66E-05	8.66E-05	8.66E-05	8.66E-05	8.74E-05	1.71E-04
GROUND	4.78E-05	4.78E-05	4.78E-05	4.78E-05	4.78E-05	4.78E-05	4.78E-05	5.62E-05
VEGET								
ADULT	8.91E-06	1.77E-05	3.91E-04	9.95E-07	7.15E-07	1.17E-04	8.30E-09	0.00E+00
TEEN	1.23E-05	2.07E-05	5.38E-04	1.52E-06	1.09E-06	1.58E-04	1.55E-08	0.00E+00
CHILD	2.53E-05	1.55E-05	1.11E-03	2.41E-06	1.73E-06	3.03E-04	2.36E-08	0.00E+00
MEAT								
ADULT	2.94E-07	1.77E-06	4.67E-06	1.05E-07	1.97E-08	3.16E-06	6.71E-10	0.00E+00
TEEN	2.22E-07	9.62E-07	3.24E-06	8.23E-08	1.60E-08	2.29E-06	6.35E-10	0.00E+00
CHILD	3.46E-07	4.96E-07	5.14E-06	9.93E-08	2.01E-08	3.45E-06	7.47E-10	0.00E+00
COW MILK								
ADULT	5.84E-07	9.25E-07	1.78E-05	3.45E-07	4.86E-07	8.82E-05	5.65E-09	0.00E+00
TEEN	8.97E-07	1.20E-06	2.70E-05	6.11E-07	8.67E-07	1.40E-04	1.17E-08	0.00E+00
CHILD	1.77E-06	9.02E-07	5.62E-05	1.06E-06	1.44E-06	2.76E-04	1.79E-08	0.00E+00
INFANT	2.44E-06	8.71E-07	6.39E-05	2.48E-06	2.50E-06	6.71E-04	3.25E-08	0.00E+00
GOATMILK								
ADULT	1.03E-06	1.13E-06	3.72E-05	4.80E-07	6.13E-07	1.06E-04	1.69E-08	0.00E+00
TEEN	1.53E-06	1.54E-06	5.64E-05	8.51E-07	1.09E-06	1.67E-04	3.50E-08	0.00E+00
CHILD	3.01E-06	1.24E-06	1.17E-04	1.48E-06	1.82E-06	3.31E-04	5.37E-08	0.00E+00
INFANT	3.84E-06	1.24E-06	1.33E-04	3.39E-06	3.14E-06	8.06E-04	9.72E-08	0.00E+00
INHAL								
ADULT	1.05E-07	4.40E-07	3.54E-06	6.48E-08	6.77E-08	7.84E-06	4.55E-06	0.00E+00
TEEN	1.27E-07	6.44E-07	4.10E-06	8.82E-08	9.33E-08	9.88E-06	7.00E-06	0.00E+00
CHILD	1.46E-07	2.02E-06	4.77E-06	8.46E-08	8.72E-08	1.15E-05	5.88E-06	0.00E+00
INFANT	7.37E-08	1.69E-06	1.96E-06	7.39E-08	5.72E-08	1.06E-05	4.12E-06	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2005 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 3.50 MILES SE

ANNUAL BETA AIR DOSE = 1.90E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.05E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.05E-05	2.05E-05	2.05E-05	2.05E-05	2.05E-05	2.05E-05	2.07E-05	4.05E-05
GROUND	2.58E-05	2.58E-05	2.58E-05	2.58E-05	2.58E-05	2.58E-05	2.58E-05	3.04E-05
VEGET								
ADULT	4.78E-06	9.40E-06	2.11E-04	4.95E-07	3.26E-07	5.27E-05	3.34E-09	0.00E+00
TEEN	6.61E-06	1.10E-05	2.90E-04	7.54E-07	4.95E-07	7.09E-05	6.26E-09	0.00E+00
CHILD	1.36E-05	8.22E-06	5.96E-04	1.19E-06	7.85E-07	1.36E-04	9.52E-09	0.00E+00
MEAT								
ADULT	1.58E-07	9.52E-07	2.52E-06	5.53E-08	8.84E-09	1.42E-06	2.71E-10	0.00E+00
TEEN	1.19E-07	5.18E-07	1.75E-06	4.31E-08	7.18E-09	1.03E-06	2.56E-10	0.00E+00
CHILD	1.86E-07	2.67E-07	2.77E-06	5.19E-08	9.03E-09	1.55E-06	3.01E-10	0.00E+00
COW MILK								
ADULT	2.97E-07	4.87E-07	9.58E-06	1.55E-07	2.18E-07	3.96E-05	2.27E-09	0.00E+00
TEEN	4.56E-07	6.28E-07	1.45E-05	2.74E-07	3.88E-07	6.26E-05	4.70E-09	0.00E+00
CHILD	9.06E-07	4.74E-07	3.02E-05	4.73E-07	6.45E-07	1.24E-04	7.22E-09	0.00E+00
INFANT	1.23E-06	4.57E-07	3.41E-05	1.11E-06	1.12E-06	3.01E-04	1.31E-08	0.00E+00
GOATMILK								
ADULT	5.27E-07	5.92E-07	2.00E-05	2.09E-07	2.73E-07	4.75E-05	6.81E-09	0.00E+00
TEEN	7.86E-07	8.07E-07	3.04E-05	3.70E-07	4.86E-07	7.51E-05	1.41E-08	0.00E+00
CHILD	1.56E-06	6.49E-07	6.32E-05	6.44E-07	8.09E-07	1.49E-04	2.16E-08	0.00E+00
INFANT	1.96E-06	6.52E-07	7.10E-05	1.48E-06	1.40E-06	3.61E-04	3.92E-08	0.00E+00
INHAL								
ADULT	5.97E-08	2.03E-07	2.27E-06	2.73E-08	2.88E-08	3.51E-06	2.81E-06	0.00E+00
TEEN	7.16E-08	2.54E-07	2.62E-06	3.70E-08	3.96E-08	4.44E-06	4.31E-06	0.00E+00
CHILD	8.21E-08	5.78E-07	3.05E-06	3.50E-08	3.70E-08	5.21E-06	3.61E-06	0.00E+00
INFANT	3.87E-08	4.68E-07	1.24E-06	2.96E-08	2.42E-08	4.78E-06	2.48E-06	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2005

SPECIAL LOCATION NO. 1 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 1.41E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.23E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.50E-04	1.51E-04	2.98E-04
GROUND	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.79E-02
VEGET								
ADULT	8.11E-04	3.05E-03	2.41E-02	3.68E-04	1.59E-04	8.04E-03	7.02E-06	0.00E+00
TEEN	1.17E-03	3.35E-03	3.30E-02	5.60E-04	2.36E-04	1.08E-02	1.24E-05	0.00E+00
CHILD	2.38E-03	2.29E-03	6.79E-02	8.53E-04	3.53E-04	2.08E-02	1.81E-05	0.00E+00
MEAT								
ADULT	1.07E-04	6.65E-04	3.17E-04	1.20E-04	5.16E-05	2.16E-04	4.30E-06	0.00E+00
TEEN	8.39E-05	3.58E-04	2.20E-04	9.24E-05	3.80E-05	1.57E-04	3.85E-06	0.00E+00
CHILD	1.30E-04	1.82E-04	3.49E-04	1.08E-04	4.32E-05	2.37E-04	4.36E-06	0.00E+00
COW MILK								
ADULT	1.78E-04	5.85E-04	1.18E-03	3.17E-04	2.27E-04	6.03E-03	6.34E-07	0.00E+00
TEEN	3.01E-04	6.82E-04	1.80E-03	5.34E-04	3.69E-04	9.55E-03	1.26E-06	0.00E+00
CHILD	6.05E-04	4.49E-04	3.72E-03	8.14E-04	5.58E-04	1.89E-02	1.87E-06	0.00E+00
INFANT	8.02E-04	1.35E-03	4.27E-03	1.46E-03	7.82E-04	4.59E-02	3.73E-06	0.00E+00
GOATMILK								
ADULT	7.82E-05	1.32E-04	2.29E-03	6.21E-05	6.30E-05	7.24E-03	5.09E-07	0.00E+00
TEEN	1.22E-04	1.66E-04	3.47E-03	1.07E-04	1.08E-04	1.15E-02	1.05E-06	0.00E+00
CHILD	2.45E-04	1.22E-04	7.22E-03	1.72E-04	1.73E-04	2.27E-02	1.60E-06	0.00E+00
INFANT	3.17E-04	2.30E-04	8.12E-03	3.50E-04	2.78E-04	5.51E-02	2.94E-06	0.00E+00
INHAL								
ADULT	7.48E-06	5.24E-05	1.81E-04	7.14E-06	4.76E-06	4.50E-04	8.97E-04	0.00E+00
TEEN	9.34E-06	6.64E-05	2.09E-04	9.41E-06	6.35E-06	5.64E-04	1.33E-03	0.00E+00
CHILD	1.06E-05	1.76E-04	2.43E-04	8.35E-06	5.69E-06	6.52E-04	1.08E-03	0.00E+00
INFANT	5.14E-06	1.44E-04	9.92E-05	5.73E-06	3.40E-06	5.97E-04	7.13E-04	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2005 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .60 MILES NNE

ANNUAL BETA AIR DOSE = 7.87E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.25E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.37E-05	8.37E-05	8.37E-05	8.37E-05	8.37E-05	8.37E-05	8.45E-05	1.66E-04
GROUND	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.06E-02	1.25E-02
VEGET								
ADULT	5.68E-04	2.13E-03	1.70E-02	2.52E-04	1.07E-04	5.28E-03	4.85E-06	0.00E+00
TEEN	8.20E-04	2.33E-03	2.34E-02	3.85E-04	1.59E-04	7.11E-03	8.54E-06	0.00E+00
CHILD	1.67E-03	1.60E-03	4.79E-02	5.85E-04	2.37E-04	1.36E-02	1.25E-05	0.00E+00
MEAT								
ADULT	7.38E-05	4.63E-04	2.23E-04	8.19E-05	3.50E-05	1.42E-04	3.00E-06	0.00E+00
TEEN	5.81E-05	2.49E-04	1.55E-04	6.33E-05	2.58E-05	1.03E-04	2.69E-06	0.00E+00
CHILD	9.01E-05	1.27E-04	2.46E-04	7.42E-05	2.93E-05	1.55E-04	3.04E-06	0.00E+00
COW MILK								
ADULT	1.21E-04	3.96E-04	8.33E-04	2.15E-04	1.53E-04	3.96E-03	4.03E-07	0.00E+00
TEEN	2.05E-04	4.62E-04	1.26E-03	3.61E-04	2.49E-04	6.26E-03	7.95E-07	0.00E+00
CHILD	4.12E-04	3.04E-04	2.62E-03	5.50E-04	3.76E-04	1.24E-02	1.18E-06	0.00E+00
INFANT	5.46E-04	9.13E-04	2.99E-03	9.83E-04	5.26E-04	3.01E-02	2.38E-06	0.00E+00
GOATMILK								
ADULT	5.35E-05	9.03E-05	1.62E-03	4.06E-05	4.16E-05	4.75E-03	2.36E-07	0.00E+00
TEEN	8.39E-05	1.14E-04	2.45E-03	6.97E-05	7.13E-05	7.52E-03	4.83E-07	0.00E+00
CHILD	1.69E-04	8.40E-05	5.09E-03	1.12E-04	1.14E-04	1.49E-02	7.37E-07	0.00E+00
INFANT	2.17E-04	1.57E-04	5.71E-03	2.28E-04	1.83E-04	3.61E-02	1.36E-06	0.00E+00
INHAL								
ADULT	5.18E-06	3.62E-05	1.25E-04	4.93E-06	3.28E-06	3.09E-04	6.21E-04	0.00E+00
TEEN	6.46E-06	4.59E-05	1.45E-04	6.50E-06	4.37E-06	3.88E-04	9.19E-04	0.00E+00
CHILD	7.35E-06	1.22E-04	1.68E-04	5.76E-06	3.92E-06	4.48E-04	7.51E-04	0.00E+00
INFANT	3.55E-06	9.94E-05	6.87E-05	3.95E-06	2.34E-06	4.11E-04	4.94E-04	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2005 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 2.59E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.09E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.75E-04	2.75E-04	2.75E-04	2.75E-04	2.75E-04	2.75E-04	2.77E-04	5.47E-04
GROUND	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	5.22E-03	6.15E-03
VEGET								
ADULT	2.77E-04	1.05E-03	8.06E-03	1.31E-04	5.88E-05	3.11E-03	2.47E-06	0.00E+00
TEEN	4.00E-04	1.15E-03	1.11E-02	1.99E-04	8.69E-05	4.19E-03	4.35E-06	0.00E+00
CHILD	8.14E-04	7.91E-04	2.27E-02	3.04E-04	1.30E-04	8.04E-03	6.37E-06	0.00E+00
MEAT								
ADULT	3.73E-05	2.30E-04	1.07E-04	4.27E-05	1.89E-05	8.37E-05	1.48E-06	0.00E+00
TEEN	2.94E-05	1.24E-04	7.44E-05	3.30E-05	1.39E-05	6.07E-05	1.33E-06	0.00E+00
CHILD	4.55E-05	6.29E-05	1.18E-04	3.86E-05	1.58E-05	9.16E-05	1.50E-06	0.00E+00
COW MILK								
ADULT	6.44E-05	2.13E-04	4.00E-04	1.16E-04	8.35E-05	2.34E-03	2.59E-07	0.00E+00
TEEN	1.09E-04	2.49E-04	6.08E-04	1.96E-04	1.36E-04	3.70E-03	5.16E-07	0.00E+00
CHILD	2.18E-04	1.64E-04	1.26E-03	2.98E-04	2.06E-04	7.32E-03	7.73E-07	0.00E+00
INFANT	2.90E-04	4.91E-04	1.45E-03	5.35E-04	2.90E-04	1.78E-02	1.52E-06	0.00E+00
GOATMILK								
ADULT	2.81E-05	4.68E-05	7.69E-04	2.41E-05	2.42E-05	2.80E-03	2.98E-07	0.00E+00
TEEN	4.36E-05	5.89E-05	1.17E-03	4.15E-05	4.16E-05	4.44E-03	6.14E-07	0.00E+00
CHILD	8.63E-05	4.31E-05	2.43E-03	6.72E-05	6.67E-05	8.78E-03	9.41E-07	0.00E+00
INFANT	1.13E-04	8.26E-05	2.74E-03	1.37E-04	1.08E-04	2.13E-02	1.72E-06	0.00E+00
INHAL								
ADULT	2.05E-06	1.45E-05	4.78E-05	2.02E-06	1.38E-06	1.28E-04	2.41E-04	0.00E+00
TEEN	2.57E-06	1.87E-05	5.53E-05	2.67E-06	1.84E-06	1.61E-04	3.56E-04	0.00E+00
CHILD	2.92E-06	5.08E-05	6.44E-05	2.38E-06	1.65E-06	1.86E-04	2.91E-04	0.00E+00
INFANT	1.43E-06	4.16E-05	2.63E-05	1.66E-06	9.92E-07	1.71E-04	1.92E-04	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2004 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.29E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.05E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.37E-04	1.37E-04	1.37E-04	1.37E-04	1.37E-04	1.37E-04	1.39E-04	2.73E-04
GROUND	2.04E-04	2.04E-04	2.04E-04	2.04E-04	2.04E-04	2.04E-04	2.04E-04	2.40E-04
VEGET								
ADULT	1.06E-05	4.16E-05	2.92E-04	5.59E-06	2.73E-06	1.59E-04	1.02E-07	0.00E+00
TEEN	1.54E-05	4.56E-05	4.02E-04	8.52E-06	4.04E-06	2.14E-04	1.81E-07	0.00E+00
CHILD	3.13E-05	3.12E-05	8.29E-04	1.30E-05	6.08E-06	4.10E-04	2.66E-07	0.00E+00
MEAT								
ADULT	1.53E-06	9.19E-06	3.96E-06	1.85E-06	8.58E-07	4.27E-06	5.79E-08	0.00E+00
TEEN	1.21E-06	4.95E-06	2.76E-06	1.43E-06	6.33E-07	3.09E-06	5.19E-08	0.00E+00
CHILD	1.87E-06	2.51E-06	4.38E-06	1.67E-06	7.20E-07	4.67E-06	5.87E-08	0.00E+00
COW MILK								
ADULT	2.87E-06	9.70E-06	1.49E-05	5.33E-06	3.87E-06	1.19E-04	1.45E-08	0.00E+00
TEEN	4.86E-06	1.13E-05	2.27E-05	8.98E-06	6.32E-06	1.89E-04	2.92E-08	0.00E+00
CHILD	9.68E-06	7.41E-06	4.72E-05	1.37E-05	9.58E-06	3.73E-04	4.42E-08	0.00E+00
INFANT	1.29E-05	2.22E-05	5.56E-05	2.47E-05	1.36E-05	9.07E-04	8.45E-08	0.00E+00
GOATMILK								
ADULT	1.23E-06	2.00E-06	2.81E-05	1.24E-06	1.22E-06	1.43E-04	2.49E-08	0.00E+00
TEEN	1.88E-06	2.50E-06	4.28E-05	2.15E-06	2.10E-06	2.26E-04	5.14E-08	0.00E+00
CHILD	3.61E-06	1.82E-06	8.93E-05	3.51E-06	3.38E-06	4.48E-04	7.89E-08	0.00E+00
INFANT	4.86E-06	3.60E-06	1.03E-04	7.20E-06	5.48E-06	1.09E-03	1.43E-07	0.00E+00
INHAL								
ADULT	1.83E-07	1.31E-06	3.44E-06	2.13E-07	1.60E-07	1.45E-05	1.89E-05	0.00E+00
TEEN	2.32E-07	1.62E-06	3.99E-06	2.84E-07	2.16E-07	1.82E-05	2.79E-05	0.00E+00
CHILD	2.65E-07	3.72E-06	4.66E-06	2.59E-07	1.96E-07	2.11E-05	2.28E-05	0.00E+00
INFANT	1.40E-07	3.03E-06	1.94E-06	1.94E-07	1.21E-07	1.93E-05	1.51E-05	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2005 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES WSW

ANNUAL BETA AIR DOSE = 4.86E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.12E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.79E-05	4.79E-05	4.79E-05	4.79E-05	4.79E-05	4.79E-05	4.84E-05	9.79E-05
GROUND	2.19E-04	2.19E-04	2.19E-04	2.19E-04	2.19E-04	2.19E-04	2.19E-04	2.57E-04
VEGET								
ADULT	1.15E-05	4.42E-05	3.27E-04	5.68E-06	2.64E-06	1.46E-04	1.06E-07	0.00E+00
TEEN	1.66E-05	4.85E-05	4.50E-04	8.65E-06	3.91E-06	1.96E-04	1.87E-07	0.00E+00
CHILD	3.39E-05	3.32E-05	9.25E-04	1.32E-05	5.88E-06	3.76E-04	2.74E-07	0.00E+00
MEAT								
ADULT	1.59E-06	9.71E-06	4.37E-06	1.86E-06	8.42E-07	3.92E-06	6.19E-08	0.00E+00
TEEN	1.25E-06	5.23E-06	3.05E-06	1.44E-06	6.21E-07	2.84E-06	5.55E-08	0.00E+00
CHILD	1.94E-06	2.65E-06	4.83E-06	1.68E-06	7.06E-07	4.29E-06	6.27E-08	0.00E+00
COW MILK								
ADULT	2.85E-06	9.52E-06	1.64E-05	5.21E-06	3.75E-06	1.09E-04	1.27E-08	0.00E+00
TEEN	4.82E-06	1.11E-05	2.50E-05	8.77E-06	6.13E-06	1.73E-04	2.55E-08	0.00E+00
CHILD	9.63E-06	7.29E-06	5.18E-05	1.34E-05	9.28E-06	3.43E-04	3.84E-08	0.00E+00
INFANT	1.28E-05	2.19E-05	6.03E-05	2.40E-05	1.31E-05	8.32E-04	7.45E-08	0.00E+00
GOATMILK								
ADULT	1.23E-06	2.03E-06	3.13E-05	1.14E-06	1.13E-06	1.31E-04	1.83E-08	0.00E+00
TEEN	1.90E-06	2.55E-06	4.76E-05	1.96E-06	1.94E-06	2.08E-04	3.77E-08	0.00E+00
CHILD	3.71E-06	1.86E-06	9.91E-05	3.19E-06	3.12E-06	4.11E-04	5.79E-08	0.00E+00
INFANT	4.92E-06	3.62E-06	1.13E-04	6.53E-06	5.04E-06	9.99E-04	1.05E-07	0.00E+00
INHAL								
ADULT	1.56E-07	1.17E-06	3.30E-06	1.69E-07	1.28E-07	1.25E-05	1.77E-05	0.00E+00
TEEN	1.96E-07	1.35E-06	3.82E-06	2.24E-07	1.72E-07	1.57E-05	2.62E-05	0.00E+00
CHILD	2.22E-07	2.37E-06	4.45E-06	2.01E-07	1.55E-07	1.81E-05	2.14E-05	0.00E+00
INFANT	1.12E-07	1.85E-06	1.84E-06	1.44E-07	9.43E-08	1.66E-05	1.41E-05	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2005

SPECIAL LOCATION NO. 1 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 5.02E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 9.66E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.47E-05	6.47E-05	6.47E-05	6.47E-05	6.47E-05	6.47E-05	6.52E-05	1.19E-04
GROUND	3.37E-03	3.37E-03	3.37E-03	3.37E-03	3.37E-03	3.37E-03	3.37E-03	3.97E-03
VEGET								
ADULT	8.45E-05	5.54E-04	7.74E-04	7.47E-05	4.91E-05	7.71E-03	1.86E-08	0.00E+00
TEEN	1.29E-04	5.93E-04	1.12E-03	1.13E-04	7.45E-05	1.04E-02	3.27E-08	0.00E+00
CHILD	2.59E-04	3.92E-04	2.41E-03	1.77E-04	1.17E-04	1.99E-02	4.77E-08	0.00E+00
MEAT								
ADULT	1.38E-05	1.14E-04	9.11E-06	7.09E-06	1.22E-06	2.08E-04	1.14E-08	0.00E+00
TEEN	1.09E-05	6.14E-05	6.64E-06	5.52E-06	9.93E-07	1.50E-04	1.02E-08	0.00E+00
CHILD	1.69E-05	3.10E-05	1.11E-05	6.61E-06	1.24E-06	2.27E-04	1.15E-08	0.00E+00
COW MILK								
ADULT	1.38E-05	3.26E-05	4.67E-05	1.95E-05	3.06E-05	5.77E-03	1.33E-09	0.00E+00
TEEN	2.32E-05	3.95E-05	7.71E-05	3.45E-05	5.45E-05	9.13E-03	2.59E-09	0.00E+00
CHILD	4.42E-05	2.73E-05	1.74E-04	5.95E-05	9.06E-05	1.81E-02	3.83E-09	0.00E+00
INFANT	7.97E-05	2.47E-05	2.76E-04	1.43E-04	1.58E-04	4.39E-02	7.88E-09	0.00E+00
GOATMILK								
ADULT	1.41E-05	1.31E-05	8.69E-05	2.15E-05	3.66E-05	6.92E-03	1.72E-10	0.00E+00
TEEN	2.34E-05	1.72E-05	1.42E-04	3.82E-05	6.52E-05	1.10E-02	3.36E-10	0.00E+00
CHILD	4.43E-05	1.32E-05	3.16E-04	6.65E-05	1.08E-04	2.17E-02	4.97E-10	0.00E+00
INFANT	8.08E-05	1.29E-05	4.77E-04	1.62E-04	1.89E-04	5.26E-02	1.02E-09	0.00E+00
INHAL								
ADULT	1.18E-06	1.14E-05	5.17E-06	2.18E-06	2.29E-06	3.40E-04	1.80E-04	0.00E+00
TEEN	1.54E-06	2.28E-05	6.32E-06	2.93E-06	3.14E-06	4.24E-04	2.65E-04	0.00E+00
CHILD	1.71E-06	1.29E-04	7.74E-06	2.72E-06	2.92E-06	4.85E-04	2.16E-04	0.00E+00
INFANT	1.06E-06	1.12E-04	4.01E-06	2.19E-06	1.90E-06	4.44E-04	1.44E-04	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .60 MILES NNE

ANNUAL BETA AIR DOSE = 1.35E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.60E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.74E-05	1.74E-05	1.74E-05	1.74E-05	1.74E-05	1.74E-05	1.76E-05	3.20E-05
GROUND	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.48E-03	1.75E-03
VEGET								
ADULT	3.62E-05	2.42E-04	3.30E-04	3.17E-05	1.96E-05	3.01E-03	4.12E-09	0.00E+00
TEEN	5.52E-05	2.59E-04	4.73E-04	4.82E-05	2.97E-05	4.05E-03	7.25E-09	0.00E+00
CHILD	1.11E-04	1.71E-04	1.02E-03	7.51E-05	4.66E-05	7.77E-03	1.06E-08	0.00E+00
MEAT								
ADULT	6.04E-06	5.01E-05	3.88E-06	3.08E-06	4.84E-07	8.10E-05	2.53E-09	0.00E+00
TEEN	4.78E-06	2.70E-05	2.81E-06	2.40E-06	3.93E-07	5.87E-05	2.26E-09	0.00E+00
CHILD	7.42E-06	1.36E-05	4.67E-06	2.87E-06	4.90E-07	8.86E-05	2.56E-09	0.00E+00
COW MILK								
ADULT	5.56E-06	1.40E-05	1.95E-05	7.69E-06	1.19E-05	2.25E-03	2.94E-10	0.00E+00
TEEN	9.33E-06	1.69E-05	3.20E-05	1.36E-05	2.13E-05	3.56E-03	5.75E-10	0.00E+00
CHILD	1.78E-05	1.17E-05	7.18E-05	2.34E-05	3.54E-05	7.04E-03	8.50E-10	0.00E+00
INFANT	3.20E-05	1.05E-05	1.12E-04	5.64E-05	6.15E-05	1.71E-02	1.75E-09	0.00E+00
GOATMILK								
ADULT	5.56E-06	5.35E-06	3.65E-05	8.41E-06	1.43E-05	2.70E-03	3.81E-11	0.00E+00
TEEN	9.23E-06	6.99E-06	5.92E-05	1.49E-05	2.54E-05	4.27E-03	7.45E-11	0.00E+00
CHILD	1.75E-05	5.36E-06	1.32E-04	2.60E-05	4.23E-05	8.45E-03	1.10E-10	0.00E+00
INFANT	3.18E-05	5.21E-06	1.96E-04	6.34E-05	7.36E-05	2.05E-02	2.26E-10	0.00E+00
INHAL								
ADULT	8.32E-07	8.00E-06	3.68E-06	1.54E-06	1.63E-06	2.43E-04	1.28E-04	0.00E+00
TEEN	1.09E-06	1.60E-05	4.49E-06	2.07E-06	2.23E-06	3.04E-04	1.89E-04	0.00E+00
CHILD	1.21E-06	9.03E-05	5.49E-06	1.92E-06	2.07E-06	3.47E-04	1.54E-04	0.00E+00
INFANT	7.47E-07	7.85E-05	2.84E-06	1.54E-06	1.35E-06	3.18E-04	1.02E-04	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 3.21E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 6.17E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.13E-05	4.13E-05	4.13E-05	4.13E-05	4.13E-05	4.13E-05	4.17E-05	7.60E-05
GROUND	6.47E-04	6.47E-04	6.47E-04	6.47E-04	6.47E-04	6.47E-04	6.47E-04	7.61E-04
VEGET								
ADULT	1.63E-05	1.07E-04	1.50E-04	1.45E-05	9.66E-06	1.52E-03	4.04E-09	0.00E+00
TEEN	2.48E-05	1.14E-04	2.16E-04	2.20E-05	1.47E-05	2.05E-03	7.11E-09	0.00E+00
CHILD	5.00E-05	7.54E-05	4.68E-04	3.44E-05	2.31E-05	3.94E-03	1.04E-08	0.00E+00
MEAT								
ADULT	2.65E-06	2.19E-05	1.76E-06	1.36E-06	2.41E-07	4.11E-05	2.48E-09	0.00E+00
TEEN	2.09E-06	1.18E-05	1.29E-06	1.06E-06	1.96E-07	2.97E-05	2.22E-09	0.00E+00
CHILD	3.25E-06	5.95E-06	2.15E-06	1.27E-06	2.45E-07	4.49E-05	2.51E-09	0.00E+00
COW MILK								
ADULT	2.71E-06	6.30E-06	9.09E-06	3.84E-06	6.05E-06	1.14E-03	2.88E-10	0.00E+00
TEEN	4.54E-06	7.62E-06	1.50E-05	6.80E-06	1.08E-05	1.80E-03	5.64E-10	0.00E+00
CHILD	8.66E-06	5.27E-06	3.39E-05	1.17E-05	1.79E-05	3.57E-03	8.33E-10	0.00E+00
INFANT	1.56E-05	4.78E-06	5.41E-05	2.83E-05	3.11E-05	8.67E-03	1.71E-09	0.00E+00
GOATMILK								
ADULT	2.77E-06	2.57E-06	1.69E-05	4.25E-06	7.23E-06	1.37E-03	3.74E-11	0.00E+00
TEEN	4.61E-06	3.37E-06	2.75E-05	7.55E-06	1.29E-05	2.17E-03	7.31E-11	0.00E+00
CHILD	8.72E-06	2.60E-06	6.15E-05	1.32E-05	2.14E-05	4.28E-03	1.08E-10	0.00E+00
INFANT	1.59E-05	2.53E-06	9.33E-05	3.21E-05	3.73E-05	1.04E-02	2.22E-10	0.00E+00
INHAL								
ADULT	2.08E-07	1.96E-06	8.67E-07	3.87E-07	4.13E-07	5.97E-05	2.93E-05	0.00E+00
TEEN	2.73E-07	4.00E-06	1.06E-06	5.21E-07	5.66E-07	7.45E-05	4.32E-05	0.00E+00
CHILD	3.05E-07	2.26E-05	1.31E-06	4.86E-07	5.27E-07	8.52E-05	3.52E-05	0.00E+00
INFANT	1.91E-07	1.96E-05	6.90E-07	3.96E-07	3.43E-07	7.80E-05	2.36E-05	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 2.65E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 5.10E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.41E-05	3.41E-05	3.41E-05	3.41E-05	3.41E-05	3.41E-05	3.44E-05	6.28E-05
GROUND	3.70E-05	3.70E-05	3.70E-05	3.70E-05	3.70E-05	3.70E-05	3.70E-05	4.36E-05
VEGET								
ADULT	1.01E-06	6.25E-06	9.52E-06	9.26E-07	7.21E-07	1.19E-04	5.73E-10	0.00E+00
TEEN	1.54E-06	6.72E-06	1.39E-05	1.41E-06	1.09E-06	1.61E-04	1.01E-09	0.00E+00
CHILD	3.09E-06	4.47E-06	3.03E-05	2.22E-06	1.73E-06	3.08E-04	1.47E-09	0.00E+00
MEAT								
ADULT	1.54E-07	1.26E-06	1.12E-07	8.15E-08	1.83E-08	3.22E-06	3.52E-10	0.00E+00
TEEN	1.21E-07	6.77E-07	8.27E-08	6.35E-08	1.49E-08	2.33E-06	3.15E-10	0.00E+00
CHILD	1.88E-07	3.42E-07	1.40E-07	7.65E-08	1.87E-08	3.52E-06	3.56E-10	0.00E+00
COW MILK								
ADULT	1.98E-07	3.87E-07	6.12E-07	2.94E-07	4.73E-07	8.94E-05	4.10E-11	0.00E+00
TEEN	3.32E-07	4.72E-07	1.03E-06	5.21E-07	8.44E-07	1.41E-04	8.01E-11	0.00E+00
CHILD	6.30E-07	3.30E-07	2.34E-06	9.01E-07	1.40E-06	2.80E-04	1.18E-10	0.00E+00
INFANT	1.15E-06	3.02E-07	3.88E-06	2.18E-06	2.44E-06	6.79E-04	2.43E-10	0.00E+00
GOATMILK								
ADULT	2.12E-07	1.83E-07	1.11E-06	3.32E-07	5.66E-07	1.07E-04	5.31E-12	0.00E+00
TEEN	3.52E-07	2.41E-07	1.84E-06	5.90E-07	1.01E-06	1.70E-04	1.04E-11	0.00E+00
CHILD	6.65E-07	1.87E-07	4.15E-06	1.03E-06	1.68E-06	3.36E-04	1.53E-11	0.00E+00
INFANT	1.22E-06	1.83E-07	6.55E-06	2.51E-06	2.92E-06	8.15E-04	3.15E-11	0.00E+00
INHAL								
ADULT	4.22E-08	3.40E-07	1.34E-07	7.97E-08	9.04E-08	1.16E-05	3.68E-06	0.00E+00
TEEN	5.59E-08	6.53E-07	1.69E-07	1.08E-07	1.24E-07	1.45E-05	5.45E-06	0.00E+00
CHILD	6.35E-08	3.23E-06	2.13E-07	1.03E-07	1.16E-07	1.66E-05	4.45E-06	0.00E+00
INFANT	4.22E-08	2.80E-06	1.23E-07	8.92E-08	7.59E-08	1.52E-05	3.01E-06	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES WSW

ANNUAL BETA AIR DOSE = 1.67E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.22E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.17E-05	3.96E-05
GROUND	4.25E-05	4.25E-05	4.25E-05	4.25E-05	4.25E-05	4.25E-05	4.25E-05	4.99E-05
VEGET								
ADULT	1.12E-06	7.08E-06	1.04E-05	1.00E-06	7.28E-07	1.18E-04	4.60E-10	0.00E+00
TEEN	1.70E-06	7.59E-06	1.50E-05	1.52E-06	1.10E-06	1.59E-04	8.10E-10	0.00E+00
CHILD	3.41E-06	5.04E-06	3.27E-05	2.40E-06	1.74E-06	3.05E-04	1.18E-09	0.00E+00
MEAT								
ADULT	1.75E-07	1.44E-06	1.22E-07	9.14E-08	1.84E-08	3.18E-06	2.82E-10	0.00E+00
TEEN	1.38E-07	7.74E-07	8.95E-08	7.13E-08	1.49E-08	2.30E-06	2.53E-10	0.00E+00
CHILD	2.15E-07	3.91E-07	1.50E-07	8.56E-08	1.87E-08	3.48E-06	2.86E-10	0.00E+00
COW MILK								
ADULT	2.02E-07	4.28E-07	6.48E-07	2.94E-07	4.68E-07	8.83E-05	3.29E-11	0.00E+00
TEEN	3.39E-07	5.20E-07	1.08E-06	5.19E-07	8.34E-07	1.40E-04	6.43E-11	0.00E+00
CHILD	6.44E-07	3.62E-07	2.45E-06	8.98E-07	1.39E-06	2.76E-04	9.50E-11	0.00E+00
INFANT	1.17E-06	3.30E-07	3.99E-06	2.17E-06	2.41E-06	6.71E-04	1.95E-10	0.00E+00
GOATMILK								
ADULT	2.12E-07	1.89E-07	1.19E-06	3.29E-07	5.59E-07	1.06E-04	4.26E-12	0.00E+00
TEEN	3.52E-07	2.48E-07	1.96E-06	5.84E-07	9.98E-07	1.68E-04	8.33E-12	0.00E+00
CHILD	6.65E-07	1.92E-07	4.39E-06	1.02E-06	1.66E-06	3.31E-04	1.23E-11	0.00E+00
INFANT	1.22E-06	1.87E-07	6.81E-06	2.48E-06	2.88E-06	8.06E-04	2.53E-11	0.00E+00
INHAL								
ADULT	2.86E-08	2.31E-07	9.46E-08	5.38E-08	6.02E-08	7.83E-06	2.66E-06	0.00E+00
TEEN	3.79E-08	4.14E-07	1.19E-07	7.31E-08	8.27E-08	9.77E-06	3.93E-06	0.00E+00
CHILD	4.29E-08	1.91E-06	1.49E-07	6.95E-08	7.72E-08	1.12E-05	3.20E-06	0.00E+00
INFANT	2.83E-08	1.65E-06	8.49E-08	5.96E-08	5.05E-08	1.02E-05	2.15E-06	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2005

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 7.81E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.50E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.01E-05	1.85E-05
GROUND	1.82E-04	1.82E-04	1.82E-04	1.82E-04	1.82E-04	1.82E-04	1.82E-04	2.14E-04
VEGET								
ADULT	1.19E-05	3.95E-05	2.72E-04	7.72E-06	1.02E-05	1.90E-03	2.18E-11	0.00E+00
TEEN	1.74E-05	4.43E-05	3.86E-04	1.17E-05	1.55E-05	2.56E-03	3.97E-11	0.00E+00
CHILD	3.52E-05	3.14E-05	8.24E-04	1.92E-05	2.48E-05	4.90E-03	5.95E-11	0.00E+00
MEAT								
ADULT	8.80E-07	6.37E-06	3.20E-06	4.94E-07	2.70E-07	5.10E-05	8.27E-13	0.00E+00
TEEN	6.90E-07	3.44E-06	2.30E-06	3.89E-07	2.20E-07	3.69E-05	7.83E-13	0.00E+00
CHILD	1.07E-06	1.75E-06	3.78E-06	4.80E-07	2.79E-07	5.57E-05	9.16E-13	0.00E+00
COW MILK								
ADULT	2.93E-06	3.25E-06	1.52E-05	4.53E-06	7.64E-06	1.43E-03	7.73E-13	0.00E+00
TEEN	4.87E-06	4.16E-06	2.46E-05	8.05E-06	1.36E-05	2.26E-03	1.60E-12	0.00E+00
CHILD	9.21E-06	3.12E-06	5.46E-05	1.40E-05	2.27E-05	4.49E-03	2.45E-12	0.00E+00
INFANT	1.68E-05	2.98E-06	8.16E-05	3.42E-05	3.94E-05	1.09E-02	5.92E-12	0.00E+00
GOATMILK								
ADULT	3.58E-06	2.96E-06	2.91E-05	5.35E-06	9.17E-06	1.72E-03	9.28E-14	0.00E+00
TEEN	5.92E-06	3.99E-06	4.66E-05	9.51E-06	1.64E-05	2.72E-03	1.92E-13	0.00E+00
CHILD	1.13E-05	3.19E-06	1.02E-04	1.66E-05	2.72E-05	5.38E-03	2.94E-13	0.00E+00
INFANT	2.03E-05	3.17E-06	1.46E-04	4.05E-05	4.73E-05	1.31E-02	7.11E-13	0.00E+00
INHAL								
ADULT	5.17E-07	1.70E-06	3.61E-06	9.85E-07	1.61E-06	2.25E-04	1.86E-05	0.00E+00
TEEN	6.75E-07	2.77E-06	4.39E-06	1.35E-06	2.22E-06	2.85E-04	2.80E-05	0.00E+00
CHILD	7.53E-07	1.17E-05	5.36E-06	1.32E-06	2.09E-06	3.35E-04	2.31E-05	0.00E+00
INFANT	5.07E-07	9.97E-06	2.76E-06	1.21E-06	1.38E-06	3.07E-04	1.59E-05	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 1.19E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.29E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.55E-05	2.82E-05
GROUND	2.33E-04	2.33E-04	2.33E-04	2.33E-04	2.33E-04	2.33E-04	2.33E-04	2.74E-04
VEGET								
ADULT	1.55E-05	5.11E-05	3.51E-04	1.01E-05	1.35E-05	2.51E-03	5.10E-11	0.00E+00
TEEN	2.26E-05	5.73E-05	4.99E-04	1.53E-05	2.04E-05	3.38E-03	9.26E-11	0.00E+00
CHILD	4.56E-05	4.07E-05	1.07E-03	2.52E-05	3.28E-05	6.47E-03	1.39E-10	0.00E+00
MEAT								
ADULT	1.13E-06	8.16E-06	4.13E-06	6.39E-07	3.56E-07	6.73E-05	1.93E-12	0.00E+00
TEEN	8.87E-07	4.41E-06	2.97E-06	5.03E-07	2.91E-07	4.87E-05	1.83E-12	0.00E+00
CHILD	1.37E-06	2.24E-06	4.89E-06	6.21E-07	3.69E-07	7.36E-05	2.14E-12	0.00E+00
COW MILK								
ADULT	3.86E-06	4.24E-06	1.97E-05	6.00E-06	1.01E-05	1.89E-03	1.80E-12	0.00E+00
TEEN	6.42E-06	5.44E-06	3.20E-05	1.06E-05	1.80E-05	2.99E-03	3.73E-12	0.00E+00
CHILD	1.21E-05	4.08E-06	7.10E-05	1.85E-05	3.00E-05	5.93E-03	5.71E-12	0.00E+00
INFANT	2.22E-05	3.90E-06	1.07E-04	4.52E-05	5.22E-05	1.44E-02	1.38E-11	0.00E+00
GOATMILK								
ADULT	4.71E-06	3.89E-06	3.77E-05	7.08E-06	1.21E-05	2.27E-03	2.17E-13	0.00E+00
TEEN	7.80E-06	5.25E-06	6.04E-05	1.26E-05	2.16E-05	3.59E-03	4.48E-13	0.00E+00
CHILD	1.48E-05	4.20E-06	1.33E-04	2.19E-05	3.60E-05	7.12E-03	6.85E-13	0.00E+00
INFANT	2.68E-05	4.18E-06	1.90E-04	5.36E-05	6.26E-05	1.73E-02	1.66E-12	0.00E+00
INHAL								
ADULT	3.84E-07	1.29E-06	2.70E-06	7.30E-07	1.19E-06	1.66E-04	1.40E-05	0.00E+00
TEEN	5.01E-07	2.12E-06	3.29E-06	1.00E-06	1.64E-06	2.10E-04	2.10E-05	0.00E+00
CHILD	5.60E-07	9.03E-06	4.01E-06	9.81E-07	1.54E-06	2.47E-04	1.73E-05	0.00E+00
INFANT	3.77E-07	7.71E-06	2.06E-06	9.00E-07	1.02E-06	2.27E-04	1.20E-05	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 2.41E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.64E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.10E-05	3.10E-05	3.10E-05	3.10E-05	3.10E-05	3.10E-05	3.13E-05	5.71E-05
GROUND	6.59E-05	6.59E-05	6.59E-05	6.59E-05	6.59E-05	6.59E-05	6.59E-05	7.75E-05
VEGET								
ADULT	4.55E-06	1.49E-05	1.02E-04	3.08E-06	4.20E-06	7.80E-04	3.64E-11	0.00E+00
TEEN	6.65E-06	1.67E-05	1.45E-04	4.65E-06	6.34E-06	1.05E-03	6.61E-11	0.00E+00
CHILD	1.34E-05	1.19E-05	3.11E-04	7.68E-06	1.02E-05	2.01E-03	9.92E-11	0.00E+00
MEAT								
ADULT	3.23E-07	2.31E-06	1.19E-06	1.86E-07	1.11E-07	2.09E-05	1.38E-12	0.00E+00
TEEN	2.53E-07	1.25E-06	8.62E-07	1.47E-07	9.02E-08	1.51E-05	1.31E-12	0.00E+00
CHILD	3.92E-07	6.35E-07	1.42E-06	1.82E-07	1.14E-07	2.29E-05	1.53E-12	0.00E+00
COW MILK								
ADULT	1.19E-06	1.27E-06	5.79E-06	1.87E-06	3.16E-06	5.89E-04	1.29E-12	0.00E+00
TEEN	1.98E-06	1.64E-06	9.44E-06	3.32E-06	5.64E-06	9.32E-04	2.67E-12	0.00E+00
CHILD	3.74E-06	1.24E-06	2.10E-05	5.78E-06	9.37E-06	1.85E-03	4.08E-12	0.00E+00
INFANT	6.85E-06	1.19E-06	3.20E-05	1.41E-05	1.63E-05	4.49E-03	9.87E-12	0.00E+00
GOATMILK								
ADULT	1.45E-06	1.20E-06	1.10E-05	2.21E-06	3.79E-06	7.06E-04	1.55E-13	0.00E+00
TEEN	2.41E-06	1.62E-06	1.77E-05	3.93E-06	6.76E-06	1.12E-03	3.20E-13	0.00E+00
CHILD	4.58E-06	1.30E-06	3.91E-05	6.85E-06	1.12E-05	2.22E-03	4.90E-13	0.00E+00
INFANT	8.29E-06	1.29E-06	5.67E-05	1.68E-05	1.96E-05	5.39E-03	1.18E-12	0.00E+00
INHAL								
ADULT	9.99E-08	3.77E-07	6.47E-07	1.93E-07	3.09E-07	4.19E-05	3.36E-06	0.00E+00
TEEN	1.31E-07	6.81E-07	7.90E-07	2.65E-07	4.26E-07	5.31E-05	5.06E-06	0.00E+00
CHILD	1.47E-07	3.13E-06	9.67E-07	2.60E-07	4.00E-07	6.25E-05	4.18E-06	0.00E+00
INFANT	9.97E-08	2.68E-06	5.05E-07	2.39E-07	2.64E-07	5.73E-05	2.94E-06	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.57E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.17E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.45E-06	1.45E-06	1.45E-06	1.45E-06	1.45E-06	1.45E-06	1.47E-06	3.06E-06
GROUND	3.60E-06	3.60E-06	3.60E-06	3.60E-06	3.60E-06	3.60E-06	3.60E-06	4.23E-06
VEGET								
ADULT	2.59E-07	8.37E-07	5.70E-06	1.80E-07	2.50E-07	4.65E-05	3.27E-12	0.00E+00
TEEN	3.79E-07	9.43E-07	8.16E-06	2.72E-07	3.77E-07	6.25E-05	5.94E-12	0.00E+00
CHILD	7.66E-07	6.73E-07	1.75E-05	4.50E-07	6.06E-07	1.20E-04	8.91E-12	0.00E+00
MEAT								
ADULT	1.79E-08	1.27E-07	6.70E-08	1.05E-08	6.58E-09	1.25E-06	1.24E-13	0.00E+00
TEEN	1.40E-08	6.85E-08	4.85E-08	8.27E-09	5.37E-09	9.02E-07	1.17E-13	0.00E+00
CHILD	2.16E-08	3.49E-08	8.03E-08	1.03E-08	6.81E-09	1.36E-06	1.37E-13	0.00E+00
COW MILK								
ADULT	7.03E-08	7.33E-08	3.30E-07	1.11E-07	1.89E-07	3.51E-05	1.16E-13	0.00E+00
TEEN	1.17E-07	9.47E-08	5.39E-07	1.98E-07	3.36E-07	5.56E-05	2.39E-13	0.00E+00
CHILD	2.21E-07	7.18E-08	1.21E-06	3.45E-07	5.59E-07	1.10E-04	3.66E-13	0.00E+00
INFANT	4.06E-07	6.91E-08	1.86E-06	8.41E-07	9.73E-07	2.68E-04	8.86E-13	0.00E+00
GOATMILK								
ADULT	8.60E-08	7.07E-08	6.23E-07	1.32E-07	2.26E-07	4.21E-05	1.39E-14	0.00E+00
TEEN	1.43E-07	9.57E-08	1.01E-06	2.35E-07	4.04E-07	6.67E-05	2.87E-14	0.00E+00
CHILD	2.71E-07	7.68E-08	2.23E-06	4.09E-07	6.71E-07	1.32E-04	4.40E-14	0.00E+00
INFANT	4.92E-07	7.65E-08	3.27E-06	1.00E-06	1.17E-06	3.21E-04	1.06E-13	0.00E+00
INHAL								
ADULT	1.93E-08	8.46E-08	1.18E-07	3.81E-08	6.19E-08	8.40E-06	5.97E-07	0.00E+00
TEEN	2.53E-08	1.36E-07	1.45E-07	5.24E-08	8.54E-08	1.06E-05	8.99E-07	0.00E+00
CHILD	2.84E-08	4.82E-07	1.78E-07	5.13E-08	8.02E-08	1.25E-05	7.43E-07	0.00E+00
INFANT	1.94E-08	4.05E-07	9.46E-08	4.73E-08	5.29E-08	1.15E-05	5.22E-07	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 2.20 MILES SW

ANNUAL BETA AIR DOSE = 7.95E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.53E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.02E-05	1.03E-05	1.88E-05
GROUND	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	3.30E-06
VEGET								
ADULT	2.04E-07	6.55E-07	4.45E-06	1.43E-07	1.99E-07	3.71E-05	2.77E-12	0.00E+00
TEEN	2.98E-07	7.38E-07	6.38E-06	2.16E-07	3.01E-07	4.99E-05	5.03E-12	0.00E+00
CHILD	6.02E-07	5.27E-07	1.37E-05	3.57E-07	4.83E-07	9.56E-05	7.54E-12	0.00E+00
MEAT								
ADULT	1.39E-08	9.83E-08	5.24E-08	8.21E-09	5.25E-09	9.94E-07	1.05E-13	0.00E+00
TEEN	1.09E-08	5.32E-08	3.79E-08	6.48E-09	4.28E-09	7.20E-07	9.92E-14	0.00E+00
CHILD	1.69E-08	2.71E-08	6.28E-08	8.05E-09	5.43E-09	1.09E-06	1.16E-13	0.00E+00
COW MILK								
ADULT	5.60E-08	5.80E-08	2.59E-07	8.92E-08	1.51E-07	2.80E-05	9.80E-14	0.00E+00
TEEN	9.33E-08	7.51E-08	4.24E-07	1.58E-07	2.69E-07	4.44E-05	2.03E-13	0.00E+00
CHILD	1.76E-07	5.71E-08	9.49E-07	2.76E-07	4.48E-07	8.81E-05	3.10E-13	0.00E+00
INFANT	3.24E-07	5.50E-08	1.47E-06	6.73E-07	7.79E-07	2.14E-04	7.50E-13	0.00E+00
GOATMILK								
ADULT	6.85E-08	5.64E-08	4.88E-07	1.06E-07	1.81E-07	3.36E-05	1.18E-14	0.00E+00
TEEN	1.14E-07	7.63E-08	7.90E-07	1.88E-07	3.23E-07	5.33E-05	2.43E-14	0.00E+00
CHILD	2.16E-07	6.14E-08	1.75E-06	3.27E-07	5.37E-07	1.06E-04	3.72E-14	0.00E+00
INFANT	3.93E-07	6.11E-08	2.58E-06	8.01E-07	9.35E-07	2.57E-04	9.00E-14	0.00E+00
INHAL								
ADULT	1.07E-08	5.12E-08	5.72E-08	2.13E-08	3.24E-08	4.11E-06	3.00E-07	0.00E+00
TEEN	1.41E-08	1.06E-07	7.05E-08	2.93E-08	4.48E-08	5.22E-06	4.57E-07	0.00E+00
CHILD	1.61E-08	5.34E-07	8.70E-08	2.87E-08	4.21E-08	6.18E-06	3.81E-07	0.00E+00
INFANT	1.11E-08	4.61E-07	4.71E-08	2.65E-08	2.78E-08	5.67E-06	2.78E-07	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2005

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 3.66E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.04E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.71E-05	4.71E-05	4.71E-05	4.71E-05	4.71E-05	4.71E-05	4.75E-05	8.66E-05
GROUND	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	1.80E-03	2.12E-03
VEGET								
ADULT	5.30E-05	3.06E-04	6.70E-04	4.34E-05	3.36E-05	5.57E-03	5.38E-09	0.00E+00
TEEN	7.98E-05	3.30E-04	9.58E-04	6.59E-05	5.09E-05	7.50E-03	9.47E-09	0.00E+00
CHILD	1.61E-04	2.20E-04	2.06E-03	1.04E-04	8.06E-05	1.44E-02	1.38E-08	0.00E+00
MEAT								
ADULT	7.52E-06	6.12E-05	7.88E-06	3.89E-06	8.52E-07	1.50E-04	3.27E-09	0.00E+00
TEEN	5.94E-06	3.30E-05	5.70E-06	3.03E-06	6.92E-07	1.08E-04	2.93E-09	0.00E+00
CHILD	9.21E-06	1.67E-05	9.43E-06	3.65E-06	8.69E-07	1.64E-04	3.31E-09	0.00E+00
COW MILK								
ADULT	9.55E-06	1.90E-05	3.88E-05	1.38E-05	2.22E-05	4.18E-03	3.83E-10	0.00E+00
TEEN	1.60E-05	2.32E-05	6.34E-05	2.45E-05	3.96E-05	6.61E-03	7.48E-10	0.00E+00
CHILD	3.04E-05	1.63E-05	1.42E-04	4.24E-05	6.59E-05	1.31E-02	1.11E-09	0.00E+00
INFANT	5.49E-05	1.49E-05	2.18E-04	1.03E-04	1.15E-04	3.18E-02	2.27E-09	0.00E+00
GOATMILK								
ADULT	1.03E-05	9.33E-06	7.33E-05	1.56E-05	2.66E-05	5.01E-03	4.96E-11	0.00E+00
TEEN	1.71E-05	1.23E-05	1.18E-04	2.77E-05	4.75E-05	7.93E-03	9.69E-11	0.00E+00
CHILD	3.25E-05	9.63E-06	2.62E-04	4.83E-05	7.89E-05	1.57E-02	1.43E-10	0.00E+00
INFANT	5.90E-05	9.45E-06	3.83E-04	1.18E-04	1.37E-04	3.81E-02	2.95E-10	0.00E+00
INHAL								
ADULT	1.41E-06	1.03E-05	7.54E-06	2.64E-06	3.36E-06	4.86E-04	1.55E-04	0.00E+00
TEEN	1.85E-06	2.00E-05	9.19E-06	3.58E-06	4.62E-06	6.10E-04	2.29E-04	0.00E+00
CHILD	2.05E-06	1.09E-04	1.12E-05	3.39E-06	4.31E-06	7.06E-04	1.87E-04	0.00E+00
INFANT	1.31E-06	9.44E-05	5.81E-06	2.87E-06	2.82E-06	6.47E-04	1.25E-04	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 6.19E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.19E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.97E-05	7.97E-05	7.97E-05	7.97E-05	7.97E-05	7.97E-05	8.03E-05	1.47E-04
GROUND	2.85E-03	2.85E-03	2.85E-03	2.85E-03	2.85E-03	2.85E-03	2.85E-03	3.36E-03
VEGET								
ADULT	8.50E-05	4.87E-04	1.07E-03	7.01E-05	5.56E-05	9.26E-03	1.22E-08	0.00E+00
TEEN	1.28E-04	5.25E-04	1.54E-03	1.06E-04	8.42E-05	1.25E-02	2.15E-08	0.00E+00
CHILD	2.58E-04	3.51E-04	3.31E-03	1.68E-04	1.33E-04	2.39E-02	3.14E-08	0.00E+00
MEAT								
ADULT	1.19E-05	9.69E-05	1.26E-05	6.20E-06	1.41E-06	2.49E-04	7.44E-09	0.00E+00
TEEN	9.41E-06	5.22E-05	9.14E-06	4.84E-06	1.15E-06	1.80E-04	6.66E-09	0.00E+00
CHILD	1.46E-05	2.64E-05	1.52E-05	5.82E-06	1.44E-06	2.72E-04	7.53E-09	0.00E+00
COW MILK								
ADULT	1.57E-05	3.04E-05	6.26E-05	2.30E-05	3.70E-05	6.95E-03	8.69E-10	0.00E+00
TEEN	2.63E-05	3.72E-05	1.03E-04	4.06E-05	6.60E-05	1.10E-02	1.70E-09	0.00E+00
CHILD	5.00E-05	2.62E-05	2.30E-04	7.04E-05	1.10E-04	2.18E-02	2.51E-09	0.00E+00
INFANT	9.05E-05	2.40E-05	3.56E-04	1.70E-04	1.91E-04	5.29E-02	5.17E-09	0.00E+00
GOATMILK								
ADULT	1.71E-05	1.53E-05	1.18E-04	2.60E-05	4.43E-05	8.34E-03	1.13E-10	0.00E+00
TEEN	2.84E-05	2.03E-05	1.91E-04	4.61E-05	7.90E-05	1.32E-02	2.20E-10	0.00E+00
CHILD	5.38E-05	1.58E-05	4.23E-04	8.04E-05	1.31E-04	2.61E-02	3.25E-10	0.00E+00
INFANT	9.78E-05	1.55E-05	6.24E-04	1.96E-04	2.28E-04	6.35E-02	6.69E-10	0.00E+00
INHAL								
ADULT	1.42E-06	1.04E-05	7.56E-06	2.67E-06	3.39E-06	4.89E-04	1.56E-04	0.00E+00
TEEN	1.86E-06	2.02E-05	9.23E-06	3.62E-06	4.66E-06	6.14E-04	2.30E-04	0.00E+00
CHILD	2.07E-06	1.10E-04	1.13E-05	3.43E-06	4.35E-06	7.11E-04	1.87E-04	0.00E+00
INFANT	1.33E-06	9.58E-05	5.84E-06	2.91E-06	2.85E-06	6.52E-04	1.26E-04	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 5.63E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.08E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.25E-05	7.25E-05	7.25E-05	7.25E-05	7.25E-05	7.25E-05	7.30E-05	1.33E-04
GROUND	6.36E-04	6.36E-04	6.36E-04	6.36E-04	6.36E-04	6.36E-04	6.36E-04	7.49E-04
VEGET								
ADULT	1.94E-05	1.09E-04	2.44E-04	1.61E-05	1.33E-05	2.23E-03	4.07E-09	0.00E+00
TEEN	2.91E-05	1.18E-04	3.51E-04	2.45E-05	2.01E-05	3.00E-03	7.17E-09	0.00E+00
CHILD	5.87E-05	7.90E-05	7.56E-04	3.87E-05	3.18E-05	5.76E-03	1.05E-08	0.00E+00
MEAT								
ADULT	2.67E-06	2.16E-05	2.87E-06	1.40E-06	3.38E-07	6.00E-05	2.48E-09	0.00E+00
TEEN	2.11E-06	1.16E-05	2.09E-06	1.09E-06	2.75E-07	4.34E-05	2.22E-09	0.00E+00
CHILD	3.27E-06	5.89E-06	3.47E-06	1.32E-06	3.45E-07	6.56E-05	2.51E-09	0.00E+00
COW MILK								
ADULT	3.73E-06	6.92E-06	1.44E-05	5.50E-06	8.91E-06	1.67E-03	2.90E-10	0.00E+00
TEEN	6.24E-06	8.49E-06	2.37E-05	9.75E-06	1.59E-05	2.65E-03	5.66E-10	0.00E+00
CHILD	1.18E-05	5.99E-06	5.33E-05	1.69E-05	2.64E-05	5.24E-03	8.37E-10	0.00E+00
INFANT	2.15E-05	5.51E-06	8.35E-05	4.09E-05	4.59E-05	1.27E-02	1.72E-09	0.00E+00
GOATMILK								
ADULT	4.09E-06	3.60E-06	2.71E-05	6.26E-06	1.07E-05	2.01E-03	3.75E-11	0.00E+00
TEEN	6.79E-06	4.78E-06	4.40E-05	1.11E-05	1.90E-05	3.18E-03	7.34E-11	0.00E+00
CHILD	1.29E-05	3.74E-06	9.77E-05	1.94E-05	3.16E-05	6.29E-03	1.08E-10	0.00E+00
INFANT	2.34E-05	3.68E-06	1.45E-04	4.73E-05	5.51E-05	1.53E-02	2.23E-10	0.00E+00
INHAL								
ADULT	3.02E-07	2.20E-06	1.51E-06	5.70E-07	7.26E-07	1.02E-04	3.04E-05	0.00E+00
TEEN	3.96E-07	4.38E-06	1.85E-06	7.74E-07	9.98E-07	1.28E-04	4.50E-05	0.00E+00
CHILD	4.43E-07	2.40E-05	2.27E-06	7.35E-07	9.32E-07	1.49E-04	3.67E-05	0.00E+00
INFANT	2.86E-07	2.08E-05	1.19E-06	6.31E-07	6.11E-07	1.36E-04	2.47E-05	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 3.94E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.58E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.07E-05	5.07E-05	5.07E-05	5.07E-05	5.07E-05	5.07E-05	5.11E-05	9.33E-05
GROUND	3.54E-05	3.54E-05	3.54E-05	3.54E-05	3.54E-05	3.54E-05	3.54E-05	4.16E-05
VEGET								
ADULT	1.15E-06	6.23E-06	1.45E-05	9.86E-07	8.91E-07	1.53E-04	4.73E-10	0.00E+00
TEEN	1.73E-06	6.74E-06	2.09E-05	1.49E-06	1.35E-06	2.06E-04	8.32E-10	0.00E+00
CHILD	3.48E-06	4.54E-06	4.54E-05	2.38E-06	2.15E-06	3.96E-04	1.22E-09	0.00E+00
MEAT								
ADULT	1.50E-07	1.21E-06	1.70E-07	8.06E-08	2.29E-08	4.12E-06	2.88E-10	0.00E+00
TEEN	1.18E-07	6.49E-07	1.25E-07	6.30E-08	1.86E-08	2.98E-06	2.58E-10	0.00E+00
CHILD	1.84E-07	3.29E-07	2.08E-07	7.62E-08	2.35E-08	4.50E-06	2.91E-10	0.00E+00
COW MILK								
ADULT	2.47E-07	4.10E-07	8.89E-07	3.74E-07	6.13E-07	1.15E-04	3.36E-11	0.00E+00
TEEN	4.13E-07	5.06E-07	1.47E-06	6.63E-07	1.09E-06	1.82E-04	6.57E-11	0.00E+00
CHILD	7.82E-07	3.61E-07	3.34E-06	1.15E-06	1.82E-06	3.60E-04	9.71E-11	0.00E+00
INFANT	1.43E-06	3.34E-07	5.38E-06	2.79E-06	3.16E-06	8.76E-04	2.00E-10	0.00E+00
GOATMILK								
ADULT	2.76E-07	2.35E-07	1.64E-06	4.30E-07	7.34E-07	1.38E-04	4.35E-12	0.00E+00
TEEN	4.58E-07	3.12E-07	2.69E-06	7.63E-07	1.31E-06	2.19E-04	8.51E-12	0.00E+00
CHILD	8.67E-07	2.45E-07	6.02E-06	1.33E-06	2.18E-06	4.33E-04	1.26E-11	0.00E+00
INFANT	1.59E-06	2.42E-07	9.23E-06	3.25E-06	3.79E-06	1.05E-03	2.59E-11	0.00E+00
INHAL								
ADULT	6.28E-08	4.26E-07	2.59E-07	1.20E-07	1.53E-07	2.00E-05	4.70E-06	0.00E+00
TEEN	8.29E-08	7.35E-07	3.21E-07	1.64E-07	2.10E-07	2.52E-05	6.95E-06	0.00E+00
CHILD	9.39E-08	3.19E-06	3.98E-07	1.57E-07	1.97E-07	2.92E-05	5.68E-06	0.00E+00
INFANT	6.26E-08	2.74E-06	2.20E-07	1.38E-07	1.29E-07	2.68E-05	3.82E-06	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 3.00 MILES ESE

ANNUAL BETA AIR DOSE = 6.19E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.19E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	7.97E-06	8.03E-06	1.47E-05
GROUND	2.37E-05	2.37E-05	2.37E-05	2.37E-05	2.37E-05	2.37E-05	2.37E-05	2.79E-05
VEGET								
ADULT	7.46E-07	4.12E-06	9.40E-06	6.32E-07	5.48E-07	9.33E-05	2.36E-10	0.00E+00
TEEN	1.12E-06	4.46E-06	1.35E-05	9.58E-07	8.30E-07	1.26E-04	4.16E-10	0.00E+00
CHILD	2.26E-06	2.99E-06	2.93E-05	1.52E-06	1.32E-06	2.41E-04	6.08E-10	0.00E+00
MEAT								
ADULT	9.98E-08	8.06E-07	1.11E-07	5.30E-08	1.40E-08	2.51E-06	1.44E-10	0.00E+00
TEEN	7.88E-08	4.34E-07	8.06E-08	4.14E-08	1.14E-08	1.82E-06	1.29E-10	0.00E+00
CHILD	1.22E-07	2.20E-07	1.34E-07	5.00E-08	1.44E-08	2.74E-06	1.46E-10	0.00E+00
COW MILK								
ADULT	1.53E-07	2.67E-07	5.68E-07	2.29E-07	3.73E-07	7.01E-05	1.68E-11	0.00E+00
TEEN	2.56E-07	3.28E-07	9.38E-07	4.06E-07	6.66E-07	1.11E-04	3.29E-11	0.00E+00
CHILD	4.85E-07	2.33E-07	2.12E-06	7.04E-07	1.11E-06	2.20E-04	4.86E-11	0.00E+00
INFANT	8.83E-07	2.15E-07	3.37E-06	1.71E-06	1.92E-06	5.34E-04	9.99E-11	0.00E+00
GOATMILK								
ADULT	1.69E-07	1.46E-07	1.06E-06	2.62E-07	4.47E-07	8.41E-05	2.18E-12	0.00E+00
TEEN	2.81E-07	1.94E-07	1.72E-06	4.65E-07	7.98E-07	1.33E-04	4.26E-12	0.00E+00
CHILD	5.33E-07	1.53E-07	3.84E-06	8.11E-07	1.33E-06	2.64E-04	6.29E-12	0.00E+00
INFANT	9.74E-07	1.50E-07	5.81E-06	1.98E-06	2.31E-06	6.40E-04	1.29E-11	0.00E+00
INHAL								
ADULT	2.21E-08	1.59E-07	1.05E-07	4.21E-08	5.38E-08	7.46E-06	2.08E-06	0.00E+00
TEEN	2.91E-08	3.23E-07	1.29E-07	5.71E-08	7.41E-08	9.37E-06	3.07E-06	0.00E+00
CHILD	3.26E-08	1.77E-06	1.59E-07	5.45E-08	6.92E-08	1.09E-05	2.51E-06	0.00E+00
INFANT	2.13E-08	1.53E-06	8.45E-08	4.71E-08	4.54E-08	9.96E-06	1.70E-06	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2005

SPECIAL LOCATION NO. 1 A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 1.75E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.88E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.95E-04	3.78E-04
GROUND	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.21E-02	1.43E-02
VEGET								
ADULT	6.09E-04	2.38E-03	1.73E-02	2.92E-04	1.39E-04	1.04E-02	4.85E-06	0.00E+00
TEEN	8.82E-04	2.61E-03	2.38E-02	4.45E-04	2.07E-04	1.41E-02	8.56E-06	0.00E+00
CHILD	1.79E-03	1.78E-03	4.89E-02	6.80E-04	3.14E-04	2.70E-02	1.25E-05	0.00E+00
MEAT								
ADULT	8.03E-05	5.14E-04	2.27E-04	8.59E-05	3.63E-05	2.81E-04	2.98E-06	0.00E+00
TEEN	6.32E-05	2.77E-04	1.58E-04	6.64E-05	2.68E-05	2.04E-04	2.67E-06	0.00E+00
CHILD	9.81E-05	1.40E-04	2.51E-04	7.79E-05	3.05E-05	3.07E-04	3.02E-06	0.00E+00
COW MILK								
ADULT	1.31E-04	4.19E-04	8.55E-04	2.31E-04	1.76E-04	7.84E-03	4.32E-07	0.00E+00
TEEN	2.22E-04	4.90E-04	1.30E-03	3.89E-04	2.89E-04	1.24E-02	8.54E-07	0.00E+00
CHILD	4.44E-04	3.23E-04	2.71E-03	5.97E-04	4.42E-04	2.46E-02	1.27E-06	0.00E+00
INFANT	6.01E-04	9.40E-04	3.15E-03	1.09E-03	6.40E-04	5.97E-02	2.54E-06	0.00E+00
GOATMILK								
ADULT	6.31E-05	9.91E-05	1.66E-03	5.63E-05	6.68E-05	9.41E-03	3.29E-07	0.00E+00
TEEN	9.97E-05	1.26E-04	2.52E-03	9.75E-05	1.16E-04	1.49E-02	6.75E-07	0.00E+00
CHILD	1.98E-04	9.27E-05	5.24E-03	1.60E-04	1.89E-04	2.95E-02	1.03E-06	0.00E+00
INFANT	2.71E-04	1.67E-04	5.97E-03	3.44E-04	3.12E-04	7.16E-02	1.90E-06	0.00E+00
INHAL								
ADULT	7.50E-06	5.29E-05	1.60E-04	8.16E-06	6.69E-06	7.63E-04	8.86E-04	0.00E+00
TEEN	9.44E-06	7.27E-05	1.86E-04	1.08E-05	9.03E-06	9.57E-04	1.31E-03	0.00E+00
CHILD	1.07E-05	2.35E-04	2.17E-04	9.78E-06	8.23E-06	1.11E-03	1.07E-03	0.00E+00
INFANT	5.42E-06	1.96E-04	8.94E-05	7.14E-06	5.11E-06	1.01E-03	7.06E-04	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 2 A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 2.48E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.08E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.74E-04	2.74E-04	2.74E-04	2.74E-04	2.74E-04	2.74E-04	2.77E-04	5.36E-04
GROUND	1.97E-02	1.97E-02	1.97E-02	1.97E-02	1.97E-02	1.97E-02	1.97E-02	2.32E-02
VEGET								
ADULT	9.90E-04	3.88E-03	2.81E-02	4.78E-04	2.30E-04	1.73E-02	7.94E-06	0.00E+00
TEEN	1.44E-03	4.25E-03	3.86E-02	7.28E-04	3.42E-04	2.34E-02	1.40E-05	0.00E+00
CHILD	2.92E-03	2.90E-03	7.93E-02	1.11E-03	5.18E-04	4.48E-02	2.05E-05	0.00E+00
MEAT								
ADULT	1.31E-04	8.37E-04	3.68E-04	1.41E-04	5.98E-05	4.66E-04	4.86E-06	0.00E+00
TEEN	1.03E-04	4.51E-04	2.56E-04	1.09E-04	4.41E-05	3.38E-04	4.35E-06	0.00E+00
CHILD	1.60E-04	2.29E-04	4.07E-04	1.28E-04	5.03E-05	5.10E-04	4.92E-06	0.00E+00
COW MILK								
ADULT	2.15E-04	6.90E-04	1.39E-03	3.80E-04	2.90E-04	1.30E-02	7.26E-07	0.00E+00
TEEN	3.65E-04	8.06E-04	2.12E-03	6.42E-04	4.77E-04	2.06E-02	1.44E-06	0.00E+00
CHILD	7.29E-04	5.32E-04	4.40E-03	9.85E-04	7.30E-04	4.08E-02	2.15E-06	0.00E+00
INFANT	9.88E-04	1.55E-03	5.13E-03	1.80E-03	1.06E-03	9.90E-02	4.28E-06	0.00E+00
GOATMILK								
ADULT	1.04E-04	1.62E-04	2.69E-03	9.37E-05	1.11E-04	1.56E-02	6.06E-07	0.00E+00
TEEN	1.64E-04	2.06E-04	4.08E-03	1.62E-04	1.93E-04	2.47E-02	1.25E-06	0.00E+00
CHILD	3.24E-04	1.52E-04	8.50E-03	2.67E-04	3.13E-04	4.89E-02	1.91E-06	0.00E+00
INFANT	4.45E-04	2.74E-04	9.70E-03	5.73E-04	5.19E-04	1.19E-01	3.50E-06	0.00E+00
INHAL								
ADULT	9.36E-06	6.62E-05	2.01E-04	1.02E-05	8.29E-06	9.41E-04	1.11E-03	0.00E+00
TEEN	1.18E-05	9.11E-05	2.32E-04	1.35E-05	1.12E-05	1.18E-03	1.64E-03	0.00E+00
CHILD	1.33E-05	2.94E-04	2.71E-04	1.22E-05	1.02E-05	1.37E-03	1.34E-03	0.00E+00
INFANT	6.76E-06	2.45E-04	1.12E-04	8.88E-06	6.32E-06	1.25E-03	8.83E-04	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 3 A Nearest Resident
AT .90 MILES NW

ANNUAL BETA AIR DOSE = 3.06E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 5.04E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.38E-04	3.38E-04	3.38E-04	3.38E-04	3.38E-04	3.38E-04	3.42E-04	6.62E-04
GROUND	5.49E-03	5.49E-03	5.49E-03	5.49E-03	5.49E-03	5.49E-03	5.49E-03	6.45E-03
VEGET								
ADULT	2.75E-04	1.08E-03	7.66E-03	1.37E-04	6.84E-05	5.30E-03	2.26E-06	0.00E+00
TEEN	3.99E-04	1.19E-03	1.05E-02	2.09E-04	1.02E-04	7.15E-03	3.99E-06	0.00E+00
CHILD	8.11E-04	8.11E-04	2.17E-02	3.20E-04	1.54E-04	1.37E-02	5.84E-06	0.00E+00
MEAT								
ADULT	3.71E-05	2.34E-04	1.01E-04	4.06E-05	1.76E-05	1.43E-04	1.36E-06	0.00E+00
TEEN	2.92E-05	1.26E-04	7.05E-05	3.14E-05	1.30E-05	1.03E-04	1.22E-06	0.00E+00
CHILD	4.53E-05	6.41E-05	1.12E-04	3.68E-05	1.48E-05	1.56E-04	1.37E-06	0.00E+00
COW MILK								
ADULT	6.30E-05	2.03E-04	3.82E-04	1.12E-04	8.61E-05	3.98E-03	2.36E-07	0.00E+00
TEEN	1.07E-04	2.37E-04	5.83E-04	1.90E-04	1.42E-04	6.30E-03	4.70E-07	0.00E+00
CHILD	2.13E-04	1.56E-04	1.21E-03	2.91E-04	2.17E-04	1.25E-02	7.05E-07	0.00E+00
INFANT	2.89E-04	4.55E-04	1.42E-03	5.34E-04	3.15E-04	3.03E-02	1.38E-06	0.00E+00
GOATMILK								
ADULT	3.02E-05	4.68E-05	7.35E-04	2.89E-05	3.39E-05	4.78E-03	2.70E-07	0.00E+00
TEEN	4.74E-05	5.92E-05	1.12E-03	5.02E-05	5.90E-05	7.56E-03	5.55E-07	0.00E+00
CHILD	9.32E-05	4.36E-05	2.33E-03	8.27E-05	9.59E-05	1.50E-02	8.51E-07	0.00E+00
INFANT	1.29E-04	7.96E-05	2.68E-03	1.78E-04	1.59E-04	3.64E-02	1.55E-06	0.00E+00
INHAL								
ADULT	2.27E-06	1.63E-05	4.69E-05	2.54E-06	2.10E-06	2.33E-04	2.62E-04	0.00E+00
TEEN	2.87E-06	2.28E-05	5.44E-05	3.38E-06	2.83E-06	2.92E-04	3.88E-04	0.00E+00
CHILD	3.25E-06	7.54E-05	6.34E-05	3.06E-06	2.58E-06	3.39E-04	3.17E-04	0.00E+00
INFANT	1.67E-06	6.31E-05	2.63E-05	2.27E-06	1.61E-06	3.10E-04	2.10E-04	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 4 A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.75E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.88E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.93E-04	1.95E-04	3.78E-04
GROUND	2.66E-04	2.66E-04	2.66E-04	2.66E-04	2.66E-04	2.66E-04	2.66E-04	3.13E-04
VEGET								
ADULT	1.33E-05	5.33E-05	3.53E-04	7.22E-06	3.87E-06	3.18E-04	1.16E-07	0.00E+00
TEEN	1.93E-05	5.83E-05	4.86E-04	1.10E-05	5.75E-06	4.28E-04	2.06E-07	0.00E+00
CHILD	3.92E-05	3.98E-05	1.00E-03	1.69E-05	8.77E-06	8.20E-04	3.02E-07	0.00E+00
MEAT								
ADULT	1.88E-06	1.16E-05	4.73E-06	2.15E-06	9.81E-07	8.54E-06	6.66E-08	0.00E+00
TEEN	1.48E-06	6.24E-06	3.31E-06	1.66E-06	7.24E-07	6.19E-06	5.97E-08	0.00E+00
CHILD	2.29E-06	3.16E-06	5.26E-06	1.95E-06	8.26E-07	9.34E-06	6.75E-08	0.00E+00
COW MILK								
ADULT	3.45E-06	1.12E-05	1.80E-05	6.30E-06	4.88E-06	2.38E-04	1.58E-08	0.00E+00
TEEN	5.83E-06	1.31E-05	2.76E-05	1.06E-05	8.06E-06	3.77E-04	3.17E-08	0.00E+00
CHILD	1.16E-05	8.62E-06	5.76E-05	1.64E-05	1.24E-05	7.47E-04	4.79E-08	0.00E+00
INFANT	1.58E-05	2.52E-05	6.89E-05	3.01E-05	1.80E-05	1.82E-03	9.20E-08	0.00E+00
GOATMILK								
ADULT	1.64E-06	2.48E-06	3.41E-05	1.77E-06	2.03E-06	2.86E-04	2.59E-08	0.00E+00
TEEN	2.54E-06	3.12E-06	5.20E-05	3.07E-06	3.53E-06	4.53E-04	5.35E-08	0.00E+00
CHILD	4.90E-06	2.28E-06	1.09E-04	5.09E-06	5.75E-06	8.96E-04	8.21E-08	0.00E+00
INFANT	6.96E-06	4.28E-06	1.27E-04	1.09E-05	9.56E-06	2.18E-03	1.49E-07	0.00E+00
INHAL								
ADULT	2.91E-07	2.07E-06	4.94E-06	3.70E-07	3.27E-07	3.45E-05	2.91E-05	0.00E+00
TEEN	3.71E-07	2.80E-06	5.75E-06	4.96E-07	4.43E-07	4.34E-05	4.31E-05	0.00E+00
CHILD	4.24E-07	8.11E-06	6.72E-06	4.58E-07	4.07E-07	5.03E-05	3.52E-05	0.00E+00
INFANT	2.32E-07	6.74E-06	2.83E-06	3.58E-07	2.57E-07	4.61E-05	2.34E-05	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2005 (CONTINUED)

SPECIAL LOCATION NO. 5 A Nearest Garden
AT 1.90 MILES WSW

ANNUAL BETA AIR DOSE = 5.08E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.49E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.04E-05	5.04E-05	5.04E-05	5.04E-05	5.04E-05	5.04E-05	5.09E-05	1.03E-04
GROUND	2.57E-04	2.57E-04	2.57E-04	2.57E-04	2.57E-04	2.57E-04	2.57E-04	3.02E-04
VEGET								
ADULT	1.28E-05	5.10E-05	3.50E-04	6.68E-06	3.45E-06	2.75E-04	1.09E-07	0.00E+00
TEEN	1.86E-05	5.59E-05	4.82E-04	1.02E-05	5.12E-06	3.71E-04	1.92E-07	0.00E+00
CHILD	3.79E-05	3.82E-05	9.93E-04	1.56E-05	7.79E-06	7.10E-04	2.82E-07	0.00E+00
MEAT								
ADULT	1.77E-06	1.11E-05	4.65E-06	1.98E-06	8.81E-07	7.40E-06	6.39E-08	0.00E+00
TEEN	1.39E-06	5.96E-06	3.25E-06	1.53E-06	6.50E-07	5.36E-06	5.73E-08	0.00E+00
CHILD	2.16E-06	3.02E-06	5.16E-06	1.79E-06	7.41E-07	8.09E-06	6.47E-08	0.00E+00
COW MILK								
ADULT	3.12E-06	1.01E-05	1.77E-05	5.64E-06	4.35E-06	2.07E-04	1.30E-08	0.00E+00
TEEN	5.28E-06	1.18E-05	2.70E-05	9.52E-06	7.17E-06	3.27E-04	2.60E-08	0.00E+00
CHILD	1.05E-05	7.77E-06	5.62E-05	1.46E-05	1.10E-05	6.47E-04	3.91E-08	0.00E+00
INFANT	1.43E-05	2.27E-05	6.66E-05	2.69E-05	1.60E-05	1.57E-03	7.58E-08	0.00E+00
GOATMILK								
ADULT	1.49E-06	2.28E-06	3.37E-05	1.52E-06	1.76E-06	2.48E-04	1.83E-08	0.00E+00
TEEN	2.33E-06	2.88E-06	5.14E-05	2.63E-06	3.06E-06	3.92E-04	3.78E-08	0.00E+00
CHILD	4.53E-06	2.12E-06	1.07E-04	4.35E-06	4.98E-06	7.76E-04	5.79E-08	0.00E+00
INFANT	6.36E-06	3.91E-06	1.24E-04	9.34E-06	8.26E-06	1.89E-03	1.05E-07	0.00E+00
INHAL								
ADULT	1.78E-07	1.41E-06	3.27E-06	2.19E-07	2.00E-07	2.26E-05	1.95E-05	0.00E+00
TEEN	2.26E-07	2.05E-06	3.79E-06	2.92E-07	2.71E-07	2.85E-05	2.89E-05	0.00E+00
CHILD	2.56E-07	6.79E-06	4.44E-06	2.67E-07	2.49E-07	3.30E-05	2.36E-05	0.00E+00
INFANT	1.35E-07	5.67E-06	1.86E-06	2.03E-07	1.56E-07	3.03E-05	1.57E-05	0.00E+00

TABLE 8. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-MARCH 2005

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.49E-05	6.49E-05	6.49E-05	6.49E-05	6.49E-05	6.49E-05	6.57E-05	1.45E-04
	9.59%	7.82%	9.19%	9.23%	9.76%	5.25%	9.31%	18.33%
GROUND	5.48E-04	5.48E-04	5.48E-04	5.48E-04	5.48E-04	5.48E-04	5.48E-04	6.45E-04
	81.05%	66.06%	77.68%	78.00%	82.49%	44.40%	77.67%	81.67%
INHAL	5.07E-07	4.87E-06	9.51E-07	8.63E-07	5.75E-07	5.03E-05	9.11E-05	0.00E+00
	.07%	.59%	.13%	.12%	.09%	4.07%	12.91%	.00%
VEGET	2.33E-05	1.06E-04	6.19E-05	2.22E-05	8.44E-06	6.78E-06	2.85E-07	0.00E+00
	3.45%	12.73%	8.76%	3.16%	1.27%	.55%	.04%	.00%
COW MILK	3.13E-05	6.67E-05	2.62E-05	5.65E-05	3.77E-05	5.53E-04	1.22E-07	0.00E+00
	4.62%	8.04%	3.71%	8.04%	5.68%	44.80%	.02%	.00%
MEAT	8.22E-06	3.95E-05	3.66E-06	1.02E-05	4.75E-06	1.14E-05	3.53E-07	0.00E+00
	1.22%	4.77%	.52%	1.46%	.72%	.93%	.05%	.00%
TOTAL	6.76E-04	8.30E-04	7.06E-04	7.03E-04	6.65E-04	1.23E-03	7.06E-04	7.90E-04

TABLE 9. DOSES TO POPULATION WITHIN 50 MILES, APRIL-JUNE 2005

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.01E-04	1.01E-04	1.01E-04	1.01E-04	1.01E-04	1.01E-04	1.02E-04	2.33E-04
	38.22%	35.35%	4.91%	44.53%	44.82%	10.84%	41.68%	62.27%
GROUND	1.20E-04	1.20E-04	1.20E-04	1.20E-04	1.20E-04	1.20E-04	1.20E-04	1.41E-04
	45.42%	42.00%	5.83%	52.92%	53.26%	12.88%	48.86%	37.73%
INHAL	4.91E-07	2.45E-06	1.76E-05	2.63E-07	3.31E-07	4.72E-05	2.31E-05	0.00E+00
	.19%	.86%	.86%	.12%	.15%	5.08%	9.42%	.00%
VEGET	3.63E-05	5.01E-05	1.63E-03	2.45E-06	3.98E-07	8.23E-06	3.69E-08	0.00E+00
	13.76%	17.56%	79.32%	1.08%	.18%	.88%	.02%	.00%
COW MILK	5.01E-06	5.52E-06	1.66E-04	2.60E-06	3.49E-06	6.40E-04	4.99E-08	0.00E+00
	1.90%	1.94%	8.07%	1.15%	1.55%	68.86%	.02%	.00%
MEAT	1.34E-06	6.53E-06	2.09E-05	4.58E-07	8.42E-08	1.35E-05	2.93E-09	0.00E+00
	.51%	2.29%	1.02%	.20%	.04%	1.46%	.00%	.00%
TOTAL	2.64E-04	2.85E-04	2.05E-03	2.26E-04	2.25E-04	9.30E-04	2.45E-04	3.73E-04

TABLE 10. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-JUNE 2005

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.57E-04	1.57E-04	1.57E-04	1.57E-04	1.57E-04	1.57E-04	1.59E-04	3.57E-04
	16.20%	13.72%	5.64%	16.38%	17.09%	7.19%	16.32%	30.01%
GROUND	7.07E-04	7.07E-04	7.07E-04	7.07E-04	7.07E-04	7.07E-04	7.07E-04	8.32E-04
	72.81%	61.66%	25.34%	73.61%	76.81%	32.31%	72.37%	69.99%
INHAL	9.96E-07	7.11E-06	1.97E-05	1.09E-06	8.93E-07	9.85E-05	1.10E-04	0.00E+00
	.10%	.62%	.70%	.11%	.10%	4.50%	11.23%	.00%
VEGET	5.97E-05	1.56E-04	1.69E-03	2.48E-05	8.90E-06	1.49E-05	3.23E-07	0.00E+00
	6.14%	13.61%	60.57%	2.58%	.97%	.68%	.03%	.00%
COW MILK	3.65E-05	7.29E-05	1.92E-04	5.96E-05	4.15E-05	1.19E-03	1.72E-07	0.00E+00
	3.76%	6.35%	6.88%	6.20%	4.51%	54.18%	.02%	.00%
MEAT	9.62E-06	4.63E-05	2.45E-05	1.08E-05	4.89E-06	2.48E-05	3.57E-07	0.00E+00
	.99%	4.04%	.88%	1.12%	.53%	1.13%	.04%	.00%
TOTAL	9.72E-04	1.15E-03	2.79E-03	9.61E-04	9.21E-04	2.19E-03	9.77E-04	1.19E-03

TABLE 11. DOSES TO POPULATION WITHIN 50 MILES, JULY-SEPTEMBER 2005

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.32E-05	1.32E-05	1.32E-05	1.32E-05	1.32E-05	1.32E-05	1.33E-05	2.88E-05
	11.94%	10.25%	9.15%	12.02%	12.09%	1.59%	10.68%	21.13%
GROUND	9.15E-05	9.15E-05	9.15E-05	9.15E-05	9.15E-05	9.15E-05	9.15E-05	1.08E-04
	83.09%	71.34%	63.66%	83.65%	84.08%	11.04%	73.40%	78.87%
INHAL	1.97E-07	2.03E-06	7.33E-07	3.58E-07	4.46E-07	7.07E-05	1.98E-05	0.00E+00
	.18%	1.59%	.51%	.33%	.41%	8.52%	15.91%	.00%
VEGET	3.12E-06	1.53E-05	3.24E-05	1.94E-06	3.43E-07	7.96E-06	1.17E-09	0.00E+00
	2.83%	11.91%	22.56%	1.77%	.31%	.96%	.00%	.00%
COW MILK	1.49E-06	2.02E-06	5.45E-06	2.11E-06	3.31E-06	6.33E-04	3.31E-10	0.00E+00
	1.36%	1.57%	3.79%	1.93%	3.04%	76.28%	.00%	.00%
MEAT	6.57E-07	4.29E-06	4.82E-07	3.30E-07	7.61E-08	1.34E-05	1.53E-09	0.00E+00
	.60%	3.34%	.33%	.30%	.07%	1.62%	.00%	.00%
TOTAL	1.10E-04	1.28E-04	1.44E-04	1.09E-04	1.09E-04	8.29E-04	1.25E-04	1.36E-04

TABLE 12. DOSES TO POPULATION WITHIN 50 MILES, OCTOBER-DECEMBER 2005

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.70E-06	4.70E-06	4.70E-06	4.70E-06	4.70E-06	4.70E-06	4.78E-06	1.19E-05
	27.95%	24.41%	10.05%	28.41%	27.33%	1.15%	27.13%	49.39%
GROUND	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.04E-05	1.22E-05
	61.51%	53.71%	22.12%	62.52%	60.14%	2.54%	58.75%	50.61%
INHAL	9.55E-08	6.57E-07	5.25E-07	1.89E-07	3.09E-07	4.34E-05	2.49E-06	0.00E+00
	.57%	3.41%	1.12%	1.14%	1.80%	10.63%	14.12%	.00%
VEGET	8.79E-07	2.50E-06	2.69E-05	1.85E-07	3.80E-08	4.13E-06	1.69E-12	0.00E+00
	5.22%	12.96%	57.54%	1.11%	.22%	1.01%	.00%	.00%
COW MILK	6.99E-07	4.91E-07	3.91E-06	1.07E-06	1.77E-06	3.39E-04	1.33E-12	0.00E+00
	4.15%	2.55%	8.36%	6.46%	10.30%	82.95%	.00%	.00%
MEAT	1.01E-07	5.74E-07	3.79E-07	5.72E-08	3.70E-08	7.00E-06	7.88E-13	0.00E+00
	.60%	2.98%	.81%	.35%	.21%	1.71%	.00%	.00%
TOTAL	1.68E-05	1.93E-05	4.68E-05	1.66E-05	1.72E-05	4.08E-04	1.76E-05	2.41E-05

TABLE 13. DOSES TO POPULATION WITHIN 50 MILES, JULY-DECEMBER 2005

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.70E-05	1.70E-05	1.70E-05	1.70E-05	1.70E-05	1.70E-05	1.72E-05	3.89E-05
	13.99%	11.96%	9.18%	14.11%	14.10%	1.39%	12.69%	25.40%
GROUND	9.71E-05	9.71E-05	9.71E-05	9.71E-05	9.71E-05	9.71E-05	9.71E-05	1.14E-04
	80.06%	68.48%	52.54%	80.73%	80.68%	7.94%	71.65%	74.60%
INHAL	2.85E-07	2.60E-06	1.25E-06	5.36E-07	7.46E-07	1.12E-04	2.12E-05	0.00E+00
	.24%	1.83%	.68%	.45%	.62%	9.17%	15.66%	.00%
VEGET	4.00E-06	1.78E-05	5.93E-05	2.12E-06	3.80E-07	1.20E-05	1.14E-09	0.00E+00
	3.30%	12.53%	32.08%	1.77%	.32%	.98%	.00%	.00%
COW MILK	2.18E-06	2.50E-06	9.33E-06	3.16E-06	5.04E-06	9.64E-04	3.20E-10	0.00E+00
	1.80%	1.76%	5.05%	2.63%	4.19%	78.86%	.00%	.00%
MEAT	7.57E-07	4.86E-06	8.57E-07	3.86E-07	1.12E-07	2.02E-05	1.46E-09	0.00E+00
	.62%	3.43%	.46%	.32%	.09%	1.65%	.00%	.00%
TOTAL	1.21E-04	1.42E-04	1.85E-04	1.20E-04	1.20E-04	1.22E-03	1.35E-04	1.53E-04

TABLE 14. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-DECEMBER 2005

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.94E-04	1.94E-04	1.94E-04	1.94E-04	1.94E-04	1.94E-04	1.96E-04	4.39E-04
	17.05%	14.53%	6.40%	17.23%	17.86%	5.61%	16.69%	31.09%
GROUND	8.28E-04	8.28E-04	8.28E-04	8.28E-04	8.28E-04	8.28E-04	8.28E-04	9.74E-04
	72.91%	62.15%	27.38%	73.68%	76.39%	23.98%	70.43%	68.91%
INHAL	1.44E-06	1.07E-05	2.51E-05	1.75E-06	1.70E-06	2.12E-04	1.50E-04	0.00E+00
	.13%	.80%	.83%	.16%	.16%	6.15%	12.80%	.00%
VEGET	6.36E-05	1.74E-04	1.75E-03	2.68E-05	9.25E-06	2.69E-05	3.23E-07	0.00E+00
	5.60%	13.04%	57.89%	2.39%	.85%	.78%	.03%	.00%
COW MILK	3.86E-05	7.50E-05	2.01E-04	6.25E-05	4.64E-05	2.15E-03	1.71E-07	0.00E+00
	3.40%	5.63%	6.66%	5.56%	4.28%	62.18%	.01%	.00%
MEAT	1.04E-05	5.11E-05	2.54E-05	1.12E-05	4.99E-06	4.50E-05	3.58E-07	0.00E+00
	.91%	3.84%	.84%	.99%	.46%	1.30%	.03%	.00%
TOTAL	1.14E-03	1.33E-03	3.02E-03	1.12E-03	1.08E-03	3.45E-03	1.18E-03	1.41E-03

DOSE CALCULATION MODELS

To evaluate the radiological consequences of the routine release of liquid and gaseous effluents from the Cooper Nuclear Station, two computer codes were used: LADTAP II for liquid doses and GASPAR for gaseous doses. Both of these computer codes implement the dose calculational methodologies of U.S. NRC Regulatory Guide 1.109, Revision 1.

Source terms for each quarter are combined with station-specific demographic data and either hydrological dilution factors, for liquid dose calculations, or atmospheric diffusion estimates, for gaseous dose calculations.

For liquid dose calculations, the hydrological dilution factors used for input to LADTAP II, as well as other input parameters, are listed in Table 12. Other inputs not specifically listed in this table are taken from Regulatory Guide 1.109, Revision 1. Semiannual doses are obtained by summing the contributions from the appropriate quarters.

For gaseous dose calculations, atmospheric diffusion estimates are obtained from the reduction and processing of onsite meteorological data, as described in Appendix B. Source terms for the semiannual period are obtained by summing source terms for the appropriate quarters. Additional input to GASPAR includes the following station-supplied data:

- 0 to 50 mile population distribution
- 0 to 50 mile meat, milk, and vegetable distributions
- Absolute humidity at Cooper Nuclear Station (14.61 g/m^3)
- The fraction of the year that the vegetables are grown (0.5)
- The fraction of the daily feed intake derived from pasture for milk and meat animals (0.5)

Other values used for input to GASPAR are default values from Regulatory Guide 1.109, Rev. 1.

TABLE 15. Values of Parameters Used to Make Dose Estimates Resulting From Liquid Discharges at Cooper Nuclear Station January-December 2005

Parameter	Values Assigned	
	Individual	Population

NO LIQUID EFFLUENTS RELEASED IN 2005

REFERENCES

U.S. Nuclear Regulatory Commission, Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants", Revision 1, 1974.

U.S. Nuclear Regulatory Commission, Regulatory Guide 1.23 (Safety Guide 23), "Onsite Meteorological Programs", Revision 0, 1972.

U.S. Nuclear Regulatory Commission, Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors", Revision 1, 1977.

U.S. Nuclear Regulatory Commission, NUREG/CR-2919, "XOQDOQ: Computer Program for the Meteorological Evaluation of Routine Effluent Releases at Nuclear Power Stations", 1982.

U.S. Nuclear Regulatory Commission, Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors", Revision 0, 1976.

U.S. Nuclear Regulatory Commission, NUREG-0597, "User's Guide to GASPAR Code", December 1980.

U.S. Nuclear Regulatory Commission, NUREG/CR-1276, "User's Manual for LADTAP II: A Computer Code for Calculating Radiation Exposure to Man From Routine Release of Nuclear Reactor Liquid Effluents", 1980.

U.S. Nuclear Regulatory Commission, Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR 50, Appendix I", Revision 1, 1977.