Nebraska Public Power District

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

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

In accordance with Specification 5.5.3.F of the Cooper Nuclear Station Technical Specifications, the Nebraska Public Power District submits the Cooper Nuclear Station Annual Operating Report - Radioactive Effluents for the period January 1, 1996, through December 31, 1996.

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

Should you have any questions or comments regarding this report, please contact my office.

P D Graham

P. D. Graham
Vice President - Nuclear

/dnm
Enclosure

cc: Regional Administrator
USNRC - Region IV

Senior Project Manager
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector
USNRC

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NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION
ANNUAL OPERATING REPORT
RADIOACTIVE EFFLUENTS
DOCKET NUMBER 50-298

January 1, 1996 through December 31, 1996

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

ANNUAL OPERATING REPORT

RADIOACTIVE EFFLUENTS

January 1, 1996 through December 31, 1996

USNRC Docket 50-298

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INTRODUCTION

This report summarizes meteorological data and doses from radioactive effluents for the Cooper Nuclear Station for the period January through December, 1996. 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
January 1, 1996, to December 31, 1996

Cooper Nuclear Station effluent and waste disposal data are presented in the format prescribed by Regulatory Guide 1.21. Meteorological data required by Table 4A&B of Regulatory Guide 1.21 is included in the Meteorological Section of the Semiannual 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, 1996, through August 15, 1996

The concentration of radioactive material in water offsite due to radioactive liquid effluents shall not exceed the concentration specified in 10 CFR Part 20.106 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall not exceed 2 x 10-4μCi/ml total activity. (Pre CNS Technical Specification Amendment 174 Implementation)

b. August 16, 1996, through December 31, 1996

The concentration of radioactive material in water offsite due to radioactive liquid effluents shall not exceed the concentration specifi 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 10-4μCi/ml total activity. (CNS Technical Specification Amendment 174 Implementation)

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

1. During any calendar quarter: Less than or equal to 1.5 mrem t 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 ($\bar{E}$) of the radionuclide mixtures of fission and activation gases released is not applicable. This information is not utilized for dose release calculations.

D. Measurements and Approximations of Total Radioactivity

The methods used to measure or approximate the total radioactivity in effluen 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.

. 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 aliquo of a filter composite from each release point was analyzed for Sr-8 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

The following information relates to batch releases of radioactive materials in liquid and gaseous effluents:

a. Liquid

1. Number of batch releases: 98 Batches

2. Total time period for batch releases: 2.65 E+04 minutes

3. Maximum time period for batch release: 5.38 E+02 minutes

4. Average time period for batch releases: 2.57 E+02 minutes

5. Minimum time period for a batch release: 8.00 E+00 minutes

6. Average stream flow during periods of release of effluent into a flowing stream: 8.95 E+07 liters/minute

b. Gaseous

1. Number of batch releases: None

2. Total time period for batch releases: N/A

3. Maximum time period for a batch release: N/A

4. Average time period for batch releases: N/A

5. Minimum time period for a batch release: N/A

F. Abnormal Release

a. Liquid

1. Number of releases: 0

2. Total activity released: None

b. Gaseous

1. Number of releases: 0

2. Total activity released: None

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	1.14 E+00	1.33 E+03	4.73 E+02	1.33 E+02	2.0 E+01
2.	Average release rate for period	µCi/s	1.45 E-01	1.65 E+02	5.95 E+01	1.67 E+01	
B.	Iodines						
1.	Total iodine 131	Ci	1.60 E-04	7.41 E-03	6.46E-03	5.10 E-03	3.0 E+01
2.	Average release rate for period	µCi/s	2.04 E-05	9.42 E-04	8.13 E-04	6.42 F-04	
C.	Particulates						
1.	Particulates with half-lives >8 days	Ci	2.22 E-05	4.63 E-03	1.97 E-02	1.04 E-02	5.0 E+01
2.	Average release rate for period	µCi/s	2.82 E-06	5.89 E-04	2.48 E-03	2.31 E-03	
3.	Gross alpha radioactivity	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	
D.	Tritium						
1.	Total release	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	3.0 E+01
2.	Average release rate for period	µCi/s	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	

TABLE 1B
EFFLUENT AND 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.					
krypton-83m	Ci	9.60 E-03	1.10 E+01	4.00 E+00	1.10 E+00
krypton-85m	Ci	1.70 E-02	2.00 E+01	7.20 E+00	2.00 E+00
krypton-85	Ci	5.30 E-02	6.30 E+01	2.20 E+01	6.20 E+00
krypton-87	Ci	5.70 E-02	6.70 E+01	2.40 E+01	6.60 E+00
krypton-88	Ci	5.70 E-02	6.70 E+01	2.40 E+01	6.60 E+00
krypton-89	Ci	2.70 E-01	3.10 E+02	1.10 E+02	3.10 E+01
xenon-133m	Ci	8.00 E-04	9.40 E-01	3.30 E-01	9.30 E-02
xenon-133	Ci	4.00 E-02	4.70 E+01	1.70 E+01	4.70 E+00
xenon-135m	Ci	1.90 E-02	2.30 E+01	8.00 E+00	2.20 E+00
xenon-135	Ci	7.00 E-02	8.30 E+01	2.90 E+01	8.10 E+00
xenon-137	Ci	3.20 E-01	3.70 E+02	1.30 E+02	3.70 E+01
xenon-138	Ci	2.30 E-01	2.70 E+02	9.70 E+01	2.70 E+01
Total for period	Ci	1.14 E+00	1.33 E+03	4.73 E+02	1.33 E+02
2. Iodines					
iodine-131	Ci	9.71 E-05	2.94 E-03	1.30 E-03	8.69 E-04
iodine-133	Ci	0.00 E+00	1.99 E-03	8.30 E-04	1.06 E-04
iodine-135	Ci	0.00 E+00	2.10 E-03	4.79 E-04	3.24 E-04
Total for period	Ci	9.71 E-05	7.03 E-03	2.61 E-03	1.30 E-03

* No batch discharges were made

TABLE 1B
EFFLUENT AND 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.					
cesium-138	Ci	2.22 E-05	2.36 E-04	1.93 E-03	2.59 E-03
rubidium-89	Ci	0.00 E+00	0.00 E+00	7.52 E-04	1.44 E-03
strontium 89	Ci	0.00 E+00	1.73 E-04	1.62 E-04	1.52 E-04
strontium 91	Ci	0.00 E+00	3.62 E-04	9.99 E-04	9.94 E-04
yttrium 91m	Ci	0.00 E+00	1.75 E-04	5.42 E-04	5.56 E-04
barium 139	Ci	0.00 E+00	2.25 E-03	8.56 E-03	9.28 E-03
barium 140	Ci	0.00 E+00	2.25 E-04	5.24 E-04	4.90 E-04
lanthanum 140	Ci	0.00 E+00	1.95 E-04	4.07 E-04	3.47 E-04
Total for period:	Ci	2.22 E-05	3.62 E-03	1.39 E-02	1.58 E-02

*No batch discharges were made.

TABLE 1C
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-BUILDING VENT RELEASES

NUCLIDES RELEASED	Unit	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
1. Fission gases.					
krypton-85m	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
krypton-87	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
krypton-88	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
xenon-133	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
xenon-135m	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
xenon-135	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
xenon-138	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Total for period:	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
2. Iodines.					
Iodine-131	Ci	6.30 E-05	4.47 E-03	5.16 E-03	4.23 E-03
Iodine-135	Ci	0.00 E+00	3.17 E-04	7.11 E-04	3.95 E-04
Total for period:	Ci	6.30 E-05	4.79 E-03	5.87 E-03	4.63 E-03
3. Particulates.					
barium 139	Ci	0.00 E+00	1.01 E-03	4.88 E-03	2.64 E-03
cesium-138	Ci	0.00 E+00	0.00 E+00	4.53 E-04	0.00 E+00
rubidium-89	Ci	0.00 E+00	0.00 E+00	4.36 E-04	0.00 E+00
Total for period:	Ci	0.00 E+00	1.01 E-03	5.77 E-03	2.64 E-03

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, alpha)	Ci	1.49 E-01	3.48 E-01	2.92 E-01	3.40 E-01	2.0 E+01
2. Average diluted concentration during period	µCi/ml	1.68 E-08	3.11 E-08	1.75 E-08	3.01 E-08	
B. Tritium.						
1. Total release	Ci	9.45 E-01	1.11 E+00	1.50 E+00	1.80 E+00	2.0 E+01
2. Average diluted concentration during period	µCi/ml	1.06 E-07	9.91 E-08	8.98 E-08	1.59 E-07	
C. Dissolved and entrained gases.						
1. Total release	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	5.0 E+01
2. Average diluted concentration during period	µCi/ml	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	
D. Gross alpha radioactivity.						
1. Total release	Ci	0.00 E+00	1.17 E-04	2.54 E-04	5.52 E-05	5.0 E+01
E. Volume of waste released (prior to dilution).	liters	1.33 E+06	1.41 E+06	1.58 E+06	1.53 E+06	1.0 E+01
F. Volume of dilution water used during period.	liters	8.88 E+09	1.12 E+10	1.67 E+10	1.13 E+10	1.0 E+01

TABLE 2B
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
LIQUID EFFLUENTS

NUCLIDES RELEASED	Unit	CONTINUOUS MODE* 1st Qtr.	2nd Qtr.	BATCH MODE 3rd Qtr.	4th Qtr.
sodium-24	Ci	0.00 E+00	0.00 E+00	7.57 E-04	1.78 E-04
manganese-54	Ci	3.44 E-02	2.83 E-02	1.89 E-02	5.16 E-02
iron-55	Ci	1.07 E-02	8.07 E-03	5.52 E-03	1.15 E-02
cobalt-58	Ci	2.65 E-03	1.06 E-02	3.38 E-03	4.10 E-03
cobalt-60	Ci	8.98 E-02	1.43 E-01	6.28 E-02	2.07 E-01
strontium-89	Ci	4.17 E-03	1.36 E-01	1.36 E-01	4.34 E-02
strontium-90	Ci	1.68 E-04	5.28 E-04	1.48 E-03	8.59 E-04
strontium-91	Ci	0.00 E+00	0.00 E+00	7.15 E-04	0.00 E+00
cesium-134	Ci	1.37 E-04	3.44 E-04	0.00 E+00	3.62 E-05
cesium-137	Ci	6.07 E-03	7.52 E-03	1.02 E-02	1.61 E-02
technetium 99m	Ci	0.00 E+00	2.25 E-04	3.71 E-04	4.17 E-04
silver-110m	Ci	1.12 E-03	6.78 E-04	1.17 E-04	0.00 E+00
barium 140	Ci	0.00 E+00	3.29 E-03	4.23 E-02	1.02 E-03
lanthanum 140	Ci	0.00 E+00	2.98 E-03	5.55 E-03	1.05 E-03
zinc-65	Ci	5.23 E-05	8.93 E-05	0.00 E+00	6.33 E-04
cerium 141	Ci	0.00 E+00	1.48 E-04	2.23 E-04	4.37 E-04
iodine-131	Ci	0.00 E+00	6.07 E-03	2.65 E-03	1.27 E-03
iodine-133	Ci	0.00 E+00	0.00 E+00	9.68 E-04	3.24 E-04
Total for period above:	Ci	1.49 E-01	3.48 E-01	2.92 E-01	3.40 E-01
xenon-133	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
xenon-135	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00

*No continuous mode discharges made

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
PERIOD January 1, 1996, TO December 31, 1996

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.	m^3	1.05 E+02	N/A
		Ci	5.84 E+02	15%
b.	Dry compressible waste, contaminated equip, etc.	m^3	1.52 E+01	N/A
		Ci	2.15 E+01	25%
c.	Irradiated components, control rods, etc.	m^3	1.73 E+00	N/A
		Ci	3.21 E+04	15%
d.	Other.	m^3	0.00 E+00	N/A
		Ci	0.00 E+00	

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

a.

americium-241	7.20 E-06
barium-140	1.09 E+00
carbon-14	2.12 E-01
cerium-141	1.28 E-01
cesium-134	3.54 E-03
cesium-137	4.07 E-01
chromium-51	1.74 E+01
cobalt-58	1.68 E+00
cobalt-60	3.74 E+01
curium-242	1.35 E-05
curium-243/244	2.33 E-05
iodine-129	3.54 E-02
iodine-131	4.99 E-01
iodine-133	6.82 E-07
iron-55	2.46 E+01
lanthanum-140	3.49 E-01
manganese-54	8.12 E+00
molybdenum-99	5.71 E-02
neptunium-239	5.92 E-02
nickel-59	4.29 E-02
nickel-63	2.43 E+00
plutonium-238	7.93 E-06
plutonium-239/240	2.67 E-06
plutonium-241	1.70 E-03
plutonium-242	8.77 E-07
silver-110m	2.10 E-01
strontium-89	1.11 E-01
strontium-90	6.17 E-03
technetium-99	1.39 E-02
tellurium-132	5.71 E-03
tritium	5.88 E-03
xenon-133	1.00 E-02
zinc-65	5.01 E+00

(continued)

b.	americium-241	2.46 E-05
	antimony-125	7.15 E-03
	carbon-14	4.67 E-03
	cerium-144	2.49 E-01
	cesium-134	2.49 E-03
	cesium-137	1.17 E-01
	chlorine-36	2.76 E-05
	chromium-51	2.85 E-01
	cobalt-57	4.06 E-04
	cobalt-58	2.79 E-01
	cobalt-60	5.65 E+01
	curium-242	6.96 E-07
	curium-243/244	1.63 E-05
	iodine-129	6.54 E-06
	iron-55	2.52 E+01
	lanthanum-140	5.18 E-05
	manganese-54	1.53 E+01
	nickel-63	5.42 E-01
	plutonium-238	1.01 E-05
	plutonium-239/240	7.66 E-06
	plutonium-241	1.46 E-03
	polonium-210	2.32 E-08
	silver-110m	1.14 E-01
	strontium-89	7.94 E-03
	strontium-90	8.41 E-04
	technetium-99	3.77 E-06
	thallium-204	1.18 E-02
	tritum	9.90 E-03
	zinc-65	1.32 E+00
c.	americium-241	3.15 E-10
	americium-243	2.56 E-11
	carbon-14	3.65 E-03
	curium-242	6.17 E-08
	curium-243/244	7.79 E-09
	chromium-51	3.18 E-02
	cobalt-58	1.41 E-04
	cobalt-60	5.27 E+01
	iron-55	4.36 E+01
	manganese-54	1.09 E+00
	niobium-94	5.08 E-05
	nickel-59	1.53 E-02
	nickel-63	2.52 E+00
	neptunium-237	2.99 E-10
	plutonium-238	2.66 E-06
	plutonium-239/240	3.06 E-09
	plutonium-241	3.80 E-07
	plutonium-242	2.50 E-12
	technetium-99	1.90 E-05
	tritium	8.95 E-05
	uranium-235	2.31 E-11

3. SOLID WASTE DISPOSITION

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
62	Exclusive Use Vehicle	Barnwell, SC

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 WASTES
CUMULATIVE DOSE DATA

		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
A. Maximum gamma air dose						
Site boundary		(0.67 miles North)		(0.67 miles North)		(0.67 mi N)
1. Total	mrad	7.65E-6	2.45E-2	1.13E-2	2.94E-3	3.52E-2
2. Percent of Technical Specification Limit	%	0.00	0.49	0.23	0.06	0.35
Most Exposed Resident		(0.90 mi.Northwest)		(0.90 miles NW)		(0.90 mi NW)
1. Total	mrad	2.31E-5	3.52E-2	1.66E-2	2.54E-3	4.85E-2
2. Percent of Technical Specification Limit	%	0.00	0.70	0.33	0.05	0.49
B. Maximum beta air dose						
Site boundary		(0.67 miles North)		(0.67 miles North)		(0.67 mi N)
1. Total	mrad	7.53E-6	2.37E-2	1.06E-2	2.89E-3	3.41E-2
2. Percent of Technical Specification Limit	%	0.00	0.24	0.11	0.03	0.17
Most Exposed Resident		(0.90 mi.Northwest)		(0.90 miles NW)		(0.90 mi NW)
1. Total	mrad	2.14E-5	3.21E-2	1.47E-2	2.34E-3	4.39E-2
2. Percent of Technical Specification Limit	%	0.00	0.32	0.15	0.02	0.22
C. Maximum organ dose due to I-131, I-133, and particulates (>8 day half lives)						
Site boundary		(0.67 miles North)		(0.67 miles North)		(0.67 mi N)
1. Total	mrem	2.75E-2	9.81E-1	2.00E+0	1.09E+0	4.43E+0
2. Percent of Technical Specification Limit	%	0.37	13.08	26.7	14.5	29.5
3. Organ		Thyroid	Thyroid	Thyroid	Thyroid	Thyroid
4. Exposed Individual		Infant	Infant	Infant	Infant	Infant
Most Exposed Resident		(0.90 mi.Northwest)		(0.90 miles NW)		(0.90 mi NW)
1. Total	mrem	1.45E-2	3.83E-1	1.01E+0	4.65E-1	1.99E+0
2. Percent of Technical Specification Limit	%	0.19	5.11	13.5	6.2	13.3
3. Organ		Thyroid	Thyroid	Thyroid	Thyroid	Thyroid
4. Exposed Individual		Infant	Infant	Infant	Infant	Infant

D. Maximum organ dose rate due to I-131, I-133, tritium, and particulates (>8 day half-lives) was 4.43 E+00 mrem/year which was 29.5% 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 limits to the skin (3000 mrem/yr) are not exceeded.

LIQUID RADIOACTIVE WASTES

CUMULATIVE DOSE DATA

			1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
A.	Maximum whole body dose						
1.	Total	mrem	1.04E-3	2.80E-3	3.36E-3	3.90E-3	1.11E-2
2.	Percent of Technical Specification Limit	%	0.07	0.19	0.22	0.26	0.37
B.	Maximum organ dose						
1.	Total	mrem	3.63E-3	3.22E-2	3.15E-2	1.70E-2	8.32E-2
2.	Percent of Technical Specification Limit	%	0.07	0.64	0.63	0.34	0.83

C. All radioactive liquid effluents were diluted, at time of discharge to:

1. January 1, 1996, to August 15, 1996

   Concentrations below the concentrations specified in 10 CFR 20 Part 20.106 for radionuclides other than dissolved or entrained noble gases. For dissolved and entrained noble gases the concentrations were diluted below 2 x 10^{-4} μci/ml total activity.

2. August 16, 1996, to December 31, 1996

   Concentrations below the concentrations specified in 10 CFR 20 Part 20.1302 for radionuclides other than dissolved or entrained noble gases. For dissolved and entrained noble gases the concentrations were diluted below 2 x 10^{-4} μci/ml total activity.

A. Unplanned Releases:

None

B. District Initiated Changes to the Process Control Program:

There were two District initiated changes to the Process Control Program (PCP) during 1996. The first change, implemented on March 6, 1996, consisted of correcting several references to the CNS Annual Report. The second change, implemented on September 5, 1996, deleted references that are either no longer used or never used in document development and to change the semi-annual reporting requirements to annual per CNS Technical Specification Amendment No. 172.

C. District Initiated Changes to the Offsite Dose Assessment Manual:

There were three District initiated changes to the Offsite Dose Assessment Manual (ODAM) during 1996. The first change, implemented on March 6, 1996, consisted of revising the references to the CNS Annual Report and revising the Sample Description-Type and Location for Stations 12, 28, 35, 42, 44, 61, 91, 96, 99, and 101. The second change, implemented on June 21, 1996, consisted of revising Sample Description - Type and Location for Stations 101 and 102. The third change, implemented on October 15, 1996, consisted of 1) changing term "MPC" to "effluent concentration," 2) change references to 10CFR20.1302 from 10CFR20.106, and 3) deleting method to calculate gaseous effluent monitor setpoints based on concentration.

D. Technical Specification Violation:

None

APPENDIX B

METEOROLOGY

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METEOROLOGICAL DATA SUMMARIES

Meteorological data collected onsite for the period January 1, 1996, through December 31, 1996, 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.

		Lowest Data Recovery	Average Data Recovery
January 1 - March 31, 1996	(Q1)	93.8%	97.8%
April 1 - June 30, 1996	(Q2)	32.5%	84.3%
First Semiannual Period - January 1 - June 30, 1996	(SEM1)	63.1%	91.1%
July 1 - September 30, 1996	(Q3)	54.0%	88.4%
October 1 - December 31, 1996	(Q4)	58.0%	87.6%
Second Semiannual Period - July 1 - December 31, 1996	(SEM2)	56.0%	88.0%
Annual Period - January 1 - December 31, 1996	(ANN)	64.2%	89.5%

* The 10 meter wind direction values for the months of July, August and September were taken from the 10 meter back-up tower.

WIND AT 100-METER LEVEL AND 10-METER LEVEL

	Predominant Wind Direction at 100m Level		Predominant Wind Direction at 10m Level	
Q1	Northwest	16.3%	Northwest	17.8%
Q2	Southeast	11.0%	NorthNorthwest	13.1%
SEM1	NorthNorthwest	11.5%	Northwest	15.2%
Q3	Southeast	13.9%	Southeast	14.2%
Q4	South	13.9%	NorthNorthwest	13.5%
SEM2	South	12.9%	SouthSoutheast	11.8%
ANN	South	11.3%	NorthNorthwest	11.8%

	Mean Wind Speed at 100m Level	Mean Wind Speed at 10m Level
Q1	15.7 MPH	9.4 MPH
Q2	14.3 MPH	8.7 MPH
SEM1	15.0 MPH	9.1 MPH
Q3	10.6 MPH	5.8 MPH
Q4	14.2 MPH	8.4 MPH
SEM2	12.4 MPH	7.1 MPH
ANN	13.7 MPH	8.1 MPH

	Maximum Hourly Average Wind Speed/(Date at 100m Level)	Maximum Hourly Average Wind Speed/(Date at 10m Level)
Q1	40.3 MPH/(96/02/10)	31.9 MPH/(96/03/25)
Q2	43.0 MPH/(96/04/19)	32.1 MPH/(96/04/19)
SEM1	43.0 MPH/(96/04/19)	32.1 MPH/(96/04/19)
Q3	32.9 MPH/(96/09/19)	21.6 MPH/(96/07/22)
Q4	43.3 MPH/(96/10/29)	31.8 MPH/(96/10/29)
SEM2	43.3 MPH/(96/10/29)	31.8 MPH/(96/10/29)
ANN	43.3 MPH/(96/10/29)	32.1 MPH/(96/04/19)

TEMPERATURE AT 10-METER LEVEL

	Mean Hourly Average Temperature	Average Daily Maximum	Average Daily Minimum
Q1	-1.8 Degrees Celsius	3.5 Degrees Celsius	-6.8 Degrees Celsius
Q2	16.5 Degrees Celsius	21.0 Degrees Celsius	12.5 Degrees Celsius
SEM1	6.3 Degrees Celsius	12.0 Degrees Celsius	2.5 Degrees Celsius
Q3	21.3 Degrees Celsius	25.5 Degrees Celsius	17.7 Degrees Celsius
Q4	3.7 Degrees Celsius	8.1 Degrees Celsius	0.0 Degrees Celsius
SEM2	11.9 Degrees Celsius	16.8 Degrees Celsius	8.8 Degrees Celsius
ANN	9.1 Degrees Celsius	14.4 Degrees Celsius	5.7 Degrees Celsius

	Maximum Temperature (Date)	Minimum Temperature (Date)
Q1	21.6 Degrees Celsius (96/03/13)	-28.1 Degrees Celsius (96/02/02)
Q2	35.0 Degrees Celsius (96/06/29)	-6.0 Degrees Celsius (96/04/06)
SEM1	35.0 Degrees Celsius (96/06/29)	-28.1 Degrees Celsius (96/02/02)
Q3	35.8 Degrees Celsius (96/07/18)	5.8 Degrees Celsius (96/09/27)
Q4	28.2 Degrees Celsius (96/10/13)	-18.1 Degrees Celsius (96/12/24)
SEM2	35.8 Degrees Celsius (96/07/18)	-18.1 Degrees Celsius (96/12/24)
ANN	35.8 Degrees Celsius (96/07/18)	-28.1 Degrees Celsius (96/02/02)

PRECIPITATION

	Total Precipitation	Maximum Daily Precipitation Total/(Date)	Maximum Hourly Precipitation Total/(Date)
Q1	1.60 Inches	0.70 Inches (96/01/17)	0.40 Inches (96/03/24)
Q2	21.60 Inches	3.00 Inches (96/05/08)	2.20 Inches (96/05/14)
SEM1	23.20 Inches	3.00 Inches (96/05/08)	2.20 Inches (96/05/14)
Q3	12.00 Inches	2.10 Inches (96/08/16)	0.90 Inches (96/08/16)
Q4	5.60 Inches	1.90 Inches (96/11/16)	0.40 Inches (96/10/29)
SEM2	17.60 Inches	2.10 Inches (96/08/16)	0.90 Inches (96/08/16)
ANN	40.80 Inches	3.00 Inches (96/05/08)	2.20 Inches (96/05/14)

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	10%	53%	37%
Q2	19%	50%	31%
SEM1	13%	52%	35%
Q3	19%	36%	45%
Q4	14%	57%	29%
SEM2	17%	46%	37%
ANN	16%	49%	35%

TABLE 1. Meteorological Data Recovery

Data Recovery (% of total Observations)

	January-March 1996	April-June 1996	January-June 1996	July-Sept. 1996	October-Dec. 1996	July-Dec. 1996	January-Dec. 1996
100m wind speed	99.8	99.1	99.5	100.0	99.2	99.6	99.5
100m wind direction	99.8	99.2	99.5	100.0	86.4	93.2	96.3
100m ambient temperature	99.8	98.2	99.0	100.0	95.4	97.7	98.4
60m wind speed	99.8	99.1	99.5	92.7	98.9	95.8	97.6
60m wind direction	99.8	99.2	99.5	54.0	58.0	56.0	77.6
60m ambient temperature	99.3	91.6	95.4	98.6	91.5	95.1	95.3
10m wind speed	99.8	99.1	99.5	100.0	98.5	99.3	99.4
10m wind direction	99.8	41.1	70.5	85.4	72.2	78.8	74.7
10m ambient temperature	93.8	75.4	84.6	79.3	90.9	85.1	84.8
10m dew point	98.4	96.9	97.6	100.0	95.8	97.9	97.8
100m-10m delta T	93.8	75.4	84.6	79.3	90.9	85.1	84.8
100m-60m delta T	99.3	91.4	95.4	98.6	91.5	95.1	95.2
60m-10m delta T	93.8	75.4	84.6	79.3	88.4	83.8	84.2
Precipitation	99.8	100.0	99.9	100.0	100.0	100.0	100.0
100m JFD	93.8	75.4	84.6	79.3	80.1	79.7	82.1
10m JFD	93.8	32.5	63.1	67.4	63.9	65.6	64.4

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, 1996. 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

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NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/96 TO 3/31/96

JANUARY

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	31.	-7.5	31.	-11.6	31.	73.0	31.	2.5	31.	-8.5
2	31.	-7.8	31.	-11.9	31.	73.2	31.	2.4	31.	-8.8
3	29.	-8.6	31.	-11.9	29.	72.7	29.	2.3	29.	-9.6
4	29.	-8.8	31.	-11.9	29.	73.4	29.	2.3	29.	-9.7
5	29.	-8.8	31.	-11.8	29.	73.6	29.	2.3	29.	-9.7
6	29.	-8.9	31.	-11.9	29.	73.6	29.	2.3	29.	-9.8
7	29.	-9.1	31.	-11.9	29.	74.7	29.	2.3	29.	-10.0
8	29.	-9.2	31.	-12.0	29.	74.8	29.	2.3	29.	-10.1
9	29.	-9.1	31.	-11.7	29.	75.2	29.	2.3	29.	-9.9
10	29.	-8.1	31.	-11.1	29.	73.0	29.	2.4	29.	-9.0
11	29.	-7.0	31.	-10.5	29.	71.0	29.	2.5	29.	-8.2
12	29.	-6.2	31.	-10.0	29.	69.1	29.	2.6	29.	-7.5
13	30.	-5.1	31.	-9.6	30.	68.0	30.	2.7	30.	-6.5
14	29.	-4.1	31.	-9.2	29.	65.9	29.	2.8	29.	-5.7
15	29.	-3.7	31.	-8.9	29.	65.4	29.	2.9	29.	-5.4
16	29.	-3.4	31.	-8.7	29.	64.7	29.	2.9	29.	-5.2
17	29.	-3.6	31.	-8.8	29.	65.0	29.	2.9	29.	-5.3
18	29.	-4.2	31.	-9.2	29.	66.3	29.	2.8	29.	-5.8
19	29.	-4.8	31.	-9.5	29.	67.6	29.	2.7	29.	-6.3
20	30.	-5.7	31.	-9.8	30.	69.3	30.	2.7	30.	-7.0
21	29.	-6.5	31.	-10.4	29.	71.1	29.	2.6	29.	-7.6
22	29.	-6.9	31.	-11.0	29.	72.6	29.	2.6	29.	-8.0
23	29.	-7.3	31.	-11.5	29.	72.8	29.	2.5	29.	-8.3
24	31.	-7.8	31.	-11.9	31.	73.0	31.	2.4	31.	-8.8
HOURLY MEAN		-6.8		-10.7		70.8		2.5		-7.9
AVG DAILY MAX		-2.4		-6.7		82.7		3.3		-4.1
AVG DAILY MIN		-11.6		-15.6		60.6		1.9		-12.3
ABSOLUTE MAX		17.6		13.7		96.4		6.4		10.7
ABSOLUTE MIN		-25.5		-29.9		35.5		0.4		-25.8
TOTAL OBS	704		744		704		704		704	

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NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/96 TO 3/31/96

FEBRUARY

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	28.	-2.5	28.	-8.0	27.	61.1	27.	3.0	27.	-3.8
2	28.	-2.8	27.	-7.4	26.	61.7	26.	3.1	26.	-3.3
3	27.	-3.2	27.	-7.5	25.	61.0	25.	3.0	25.	-3.6
4	27.	-3.6	27.	-7.7	25.	61.9	25.	2.9	25.	-3.9
5	27.	-4.1	27.	-7.7	25.	63.3	25.	2.9	25.	-4.3
6	27.	-4.4	27.	-7.7	25.	65.0	25.	2.9	25.	-4.5
7	27.	-4.7	27.	-7.6	25.	66.6	25.	3.0	25.	-4.6
8	28.	-4.3	27.	-7.4	26.	68.6	26.	3.1	26.	-4.2
9	28.	-3.5	28.	-7.9	27.	66.0	27.	3.1	27.	-4.4
10	28.	-2.1	28.	-7.5	27.	61.6	27.	3.1	27.	-3.4
11	27.	-1.0	27.	-7.3	26.	57.8	26.	3.1	26.	-2.7
12	27.	0.5	27.	-6.9	26.	54.1	26.	3.2	26.	-1.6
13	27.	2.0	27.	-6.5	26.	50.8	26.	3.3	26.	-0.6
14	28.	3.3	28.	-6.1	27.	48.5	27.	3.4	27.	0.3
15	28.	3.9	28.	-6.1	27.	46.4	27.	3.4	27.	0.6
16	28.	4.3	28.	-6.1	27.	45.1	27.	3.4	27.	0.9
17	28.	4.1	28.	-6.2	27.	45.2	27.	3.4	27.	0.8
18	27.	3.1	27.	-6.7	26.	46.7	26.	3.3	26.	0.1
19	28.	2.0	28.	-6.7	27.	50.1	27.	3.2	27.	-0.6
20	28.	1.0	28.	-6.8	27.	52.9	27.	3.2	27.	-1.3
21	28.	0.2	28.	-6.9	27.	55.3	27.	3.2	27.	-1.8
22	28.	-0.5	28.	-7.1	27.	57.2	27.	3.1	27.	-2.3
23	28.	-1.2	28.	-7.3	27.	58.9	27.	3.1	27.	-2.8
24	28.	-1.7	28.	-7.5	27.	60.3	27.	3.1	27.	-3.2
HOURLY MEAN		-0.6		-7.1		56.8		3.1		-2.2
AVG DAILY MAX		5.0		-4.3		73.3		4.0		0.9
AVG DAILY MIN		-5.8		-11.4		45.3		2.4		-7.0
ABSOLUTE MAX		20.8		6.4		86.7		7.2		11.9
ABSOLUTE MIN		-28.1		-29.8		19.0		0.4		-25.8
TOTAL OBS	663		661		632		632		632	

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NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/96 TO 3/31/96

MARCH

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	28.	0.1	31.	-7.5	28.	58.2	28.	3.1	28.	-2.4
2	28.	-0.5	31.	-7.7	28.	60.0	28.	3.1	28.	-2.8
3	28.	-1.0	31.	-7.9	28.	60.9	28.	3.0	28.	-3.3
4	28.	-1.5	31.	-8.2	28.	61.5	28.	3.0	28.	-3.6
5	28.	-1.7	31.	-8.3	28.	61.9	28.	3.0	28.	-3.8
6	29.	-1.6	31.	-8.4	29.	62.5	29.	3.0	29.	-3.7
7	28.	-2.2	31.	-8.3	28.	64.6	28.	3.0	28.	-4.1
8	28.	-1.9	31.	-8.0	28.	64.3	28.	3.1	28.	-3.8
9	28.	-0.8	31.	-7.7	28.	60.6	28.	3.1	28.	-3.0
10	29.	1.0	31.	-7.4	29.	54.3	29.	3.1	29.	-1.9
11	28.	2.8	31.	-7.0	28.	49.7	28.	3.2	28.	-0.7
12	29.	4.0	31.	-6.7	29.	46.4	29.	3.2	29.	0.1
13	29.	5.3	31.	-6.5	29.	43.8	29.	3.3	29.	0.9
14	29.	6.0	31.	-6.5	29.	42.2	29.	3.3	29.	1.3
15	28.	6.5	31.	-6.4	28.	40.0	28.	3.2	28.	1.6
16	29.	6.9	31.	-6.2	29.	39.3	29.	3.2	29.	1.8
17	29.	6.9	31.	-6.1	29.	39.7	29.	3.3	29.	1.9
18	29.	6.5	31.	-6.2	29.	40.5	29.	3.2	29.	1.6
19	28.	4.8	31.	-6.6	28.	42.9	28.	3.1	28.	0.5
20	28.	3.6	31.	-6.5	28.	46.8	28.	3.1	28.	-0.2
21	28.	2.7	31.	-6.6	28.	49.6	28.	3.1	28.	-0.7
22	28.	2.0	31.	-6.6	28.	52.3	28.	3.1	28.	-1.1
23	29.	1.4	31.	-6.7	29.	55.2	29.	3.2	29.	-1.5
24	28.	0.8	31.	-6.9	28.	57.7	28.	3.2	28.	-1.8
HOURLY MEAN		2.1		-7.1		52.2		3.1		-1.2
AVG DAILY MAX		8.0		-3.1		69.0		4.1		3.1
AVG DAILY MIN		-3.1		-11.5		37.7		2.4		-5.1
ABSOLUTE MAX		21.6		12.0		90.2		10.4		15.0
ABSOLUTE MIN		-18.9		-25.2		19.0		0.7		-19.5
TOTAL OBS	681		744		681		681		681	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1996

JAN-MAR HOUR AVERAGES FOR THE PERIOD 1/ 1/96 TO 3/31/96

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	87.	-3.4	90.	-9.1	86.	64.5	86.	2.8	86.	-5.0
2	87.	-3.8	89.	-9.1	85.	65.3	85.	2.8	85.	-5.1
3	84.	-4.3	89.	-9.2	82.	65.1	82.	2.8	82.	-5.6
4	84.	-4.7	89.	-9.3	82.	65.8	82.	2.7	82.	-5.9
5	84.	-4.9	89.	-9.4	82.	66.4	82.	2.7	82.	-6.0
6	85.	-5.0	89.	-9.4	83.	67.1	83.	2.7	83.	-6.1
7	84.	-5.4	89.	-9.4	82.	68.8	82.	2.7	82.	-6.4
8	85.	-5.2	89.	-9.2	83.	69.3	83.	2.8	83.	-6.1
9	85.	-4.5	90.	-9.2	84.	67.4	84.	2.8	84.	-5.8
10	86.	-3.1	90.	-8.7	85.	63.0	85.	2.9	85.	-4.8
11	84.	-1.8	89.	-8.3	83.	59.7	83.	2.9	83.	-3.9
12	85.	-0.6	89.	-7.9	84.	56.6	84.	3.0	84.	-3.0
13	86.	0.6	89.	-7.6	85.	54.5	85.	3.1	85.	-2.2
14	86.	1.7	90.	-7.3	85.	52.3	85.	3.2	85.	-1.4
15	85.	2.2	90.	-7.2	84.	50.8	84.	3.2	84.	-1.1
16	86.	2.6	90.	-7.0	85.	49.8	85.	3.2	85.	-0.9
17	86.	2.5	90.	-7.1	85.	50.1	85.	3.2	85.	-0.9
18	85.	1.8	89.	-7.4	84.	51.3	84.	3.1	84.	-1.4
19	85.	0.6	90.	-7.6	84.	53.8	84.	3.0	84.	-2.2
20	86.	-0.5	90.	-7.8	85.	56.7	85.	3.0	85.	-2.9
21	85.	-1.2	90.	-8.0	84.	58.8	84.	2.9	84.	-3.4
22	85.	-1.9	90.	-8.2	84.	60.9	84.	2.9	84.	-3.9
23	86.	-2.4	90.	-8.5	85.	62.4	85.	2.9	85.	-4.2
24	87.	-3.1	90.	-8.8	86.	64.0	86.	2.9	86.	-4.7
HOURLY MEAN		-1.8		-8.4		60.1		2.9		-3.9
AVG DAILY MAX		3.5		-4.7		75.0		3.8		0.0
AVG DAILY MIN		-6.8		-12.9		47.9		2.2		-8.2
ABSOLUTE MAX		21.6		13.7		96.4		10.4		15.0
ABSOLUTE MIN		-28.1		-29.9		19.0		0.4		-25.8
TOTAL OBS	2048		2149		2017		2017		2017	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/96 TO 6/30/96

APRIL

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	25.	8.1	29.	0.2	24.	56.4	24.	4.7	24.	4.2
2	26.	7.5	29.	0.1	25.	58.8	25.	4.7	25.	3.9
3	28.	7.5	29.	-0.1	27.	60.5	27.	4.9	27.	4.0
4	28.	7.0	29.	-0.2	27.	61.8	27.	4.8	27.	3.7
5	28.	6.7	29.	-0.4	27.	62.1	27.	4.7	27.	3.4
6	28.	6.3	29.	-0.5	27.	62.9	27.	4.7	27.	3.2
7	28.	6.3	29.	-0.3	27.	63.9	27.	4.7	27.	3.3
8	27.	7.1	29.	0.0	27.	61.3	27.	4.8	27.	4.0
9	27.	8.7	28.	-0.2	27.	55.0	27.	4.8	27.	4.8
10	24.	9.5	27.	-0.2	24.	50.8	24.	4.6	24.	5.0
11	22.	10.3	27.	-0.2	22.	46.6	22.	4.4	22.	5.4
12	22.	11.6	27.	-0.2	22.	42.6	22.	4.4	22.	6.0
13	22.	13.0	28.	0.0	22.	40.3	22.	4.5	22.	6.8
14	22.	13.8	28.	-0.2	22.	38.0	22.	4.4	22.	7.2
15	22.	14.5	28.	-0.3	22.	36.5	22.	4.4	22.	7.5
16	23.	15.3	29.	0.0	23.	35.4	23.	4.5	23.	8.0
17	24.	15.8	29.	0.1	24.	34.9	24.	4.5	24.	8.3
18	26.	15.2	29.	0.1	25.	36.1	25.	4.5	25.	7.9
19	26.	14.2	29.	0.2	25.	38.9	25.	4.6	25.	7.4
20	26.	12.9	29.	0.4	25.	42.8	25.	4.7	25.	6.8
21	26.	11.7	29.	0.6	25.	46.9	25.	4.8	25.	6.4
22	25.	10.4	29.	0.6	24.	50.3	24.	4.7	24.	5.6
23	25.	9.7	29.	0.7	24.	52.8	24.	4.8	24.	5.3
24	25.	9.0	29.	0.5	24.	54.2	24.	4.7	24.	4.9
HOURLY MEAN		10.3		0.0		50.1		4.6		5.5
AVG DAILY MAX		16.0		3.3		67.2		5.9		8.6
AVG DAILY MIN		5.3		-2.8		34.9		4.0		2.6
ABSOLUTE MAX		27.7		10.5		90.2		9.4		15.4
ABSOLUTE MIN		-6.0		-10.5		19.0		2.1		-7.1
TOTAL OBS	605		686		591		591		591	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/96 TO 6/30/96

MAY

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	22.	15.6	31.	10.6	22.	70.0	22.	9.7	22.	12.6
2	22.	15.3	31.	10.7	22.	72.1	22.	9.7	22.	12.5
3	22.	15.1	31.	10.7	22.	73.3	22.	9.8	22.	12.5
4	23.	14.8	31.	10.7	23.	74.3	23.	9.8	23.	12.3
5	20.	14.6	31.	10.7	20.	74.0	20.	9.7	20.	12.1
6	19.	14.1	31.	10.5	19.	74.4	19.	9.4	19.	11.7
7	17.	13.5	31.	10.5	17.	72.7	17.	8.8	17.	10.9
8	20.	14.1	31.	10.5	20.	72.4	20.	9.0	20.	11.4
9	21.	15.2	31.	10.6	21.	69.7	21.	9.3	21.	12.1
10	23.	16.1	31.	10.6	23.	67.3	23.	9.3	23.	12.6
11	22.	16.9	31.	10.6	22.	63.5	22.	9.3	22.	12.9
12	23.	18.1	31.	10.7	23.	61.2	23.	9.6	23.	13.7
13	23.	19.0	31.	10.8	23.	58.5	23.	9.7	23.	14.1
14	24.	19.2	31.	11.0	24.	57.4	24.	9.7	24.	14.1
15	25.	20.6	31.	11.2	25.	56.2	25.	10.3	25.	15.2
16	25.	20.7	31.	11.1	25.	55.5	25.	10.2	25.	15.2
17	24.	21.1	31.	11.2	24.	54.6	24.	10.3	24.	15.4
18	24.	20.9	31.	11.4	24.	56.2	24.	10.5	24.	15.4
19	24.	20.3	31.	11.3	24.	57.9	24.	10.4	24.	15.2
20	24.	19.2	31.	11.5	24.	61.8	24.	10.5	24.	14.8
21	24.	18.3	31.	11.3	24.	64.3	24.	10.4	24.	14.4
22	23.	17.6	31.	11.3	23.	65.9	23.	10.2	23.	13.9
23	21.	16.5	31.	11.2	21.	67.8	21.	9.9	21.	13.2
24	22.	16.3	31.	11.1	22.	69.9	22.	10.0	22.	13.2
HOURLY MEAN		17.4		10.9		65.0		9.8		13.5
AVG DAILY MAX		20.4		13.3		78.0		11.2		15.4
AVG DAILY MIN		14.1		8.5		54.8		8.7		11.5
ABSOLUTE MAX		32.8		20.6		90.3		17.5		23.4
ABSOLUTE MIN		6.1		-1.7		28.6		4.0		4.4
TOTAL OBS	537		744		537		537		537	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/96 TO 6/30/96

JUNE

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	23.	20.6	29.	16.5	22.	75.2	22.	13.9	22.	18.0
2	22.	20.1	29.	16.4	21.	76.2	21.	13.6	21.	17.6
3	22.	19.8	29.	16.1	21.	76.1	21.	13.4	21.	17.4
4	21.	19.3	29.	15.8	20.	75.6	20.	12.9	20.	16.8
5	20.	18.9	28.	15.5	19.	76.0	19.	12.7	19.	16.5
6	22.	19.1	28.	15.5	21.	77.4	21.	13.1	21.	16.9
7	22.	19.8	28.	15.8	21.	75.3	21.	13.3	21.	17.2
8	20.	21.5	28.	16.0	20.	70.8	20.	13.6	20.	18.0
9	20.	23.3	28.	16.2	20.	66.6	20.	14.2	20.	19.2
10	19.	23.7	28.	16.1	19.	61.0	19.	13.3	19.	18.7
11	19.	25.0	28.	16.2	19.	56.0	19.	13.1	19.	19.1
12	19.	26.0	28.	16.0	19.	52.3	19.	12.9	19.	19.3
13	18.	26.3	28.	15.8	18.	49.5	18.	12.5	18.	19.2
14	17.	26.8	28.	15.5	17.	47.1	17.	12.3	17.	19.1
15	18.	26.8	29.	15.5	18.	47.4	18.	12.2	18.	19.1
16	19.	26.5	29.	15.5	19.	47.9	19.	12.1	19.	18.9
17	20.	26.3	29.	15.5	20.	49.1	20.	12.3	20.	19.0
18	23.	26.6	29.	15.6	23.	51.0	23.	13.0	23.	19.5
19	24.	25.7	29.	16.1	24.	55.4	24.	13.4	24.	19.5
20	23.	24.3	29.	16.4	22.	59.1	22.	13.4	22.	19.1
21	23.	23.0	29.	16.6	22.	64.6	22.	13.7	22.	18.8
22	23.	22.2	29.	16.7	22.	68.5	22.	13.8	22.	18.6
23	23.	21.5	29.	16.7	22.	71.2	22.	13.9	22.	18.4
24	24.	21.2	29.	16.6	23.	72.9	23.	13.9	23.	18.2
HOURLY MEAN		23.0		16.0		63.8		13.2		18.4
AVG DAILY MAX		27.3		18.0		79.0		14.9		20.0
AVG DAILY MIN		18.9		13.9		48.1		11.6		16.5
ABSOLUTE MAX		35.0		22.4		84.9		19.4		25.0
ABSOLUTE MIN		9.9		4.0		25.7		6.0		8.4
TOTAL OBS	504		686		492		492		492	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1996

APR-JUN HOUR AVERAGES FOR THE PERIOD 4/ 1/96 TO 6/30/96

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG C)	DEW POINT NUMBER OBS	DEW POINT (DEG C)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG C)
1	70.	14.6	89.	9.1	68.	66.9	68.	9.3	68.	11.4
2	70.	13.9	89.	9.1	68.	68.4	68.	9.1	68.	10.9
3	72.	13.6	89.	9.0	70.	69.2	70.	9.0	70.	10.7
4	72.	13.1	89.	8.8	70.	69.8	70.	8.8	70.	10.3
5	68.	12.6	88.	8.6	66.	69.7	66.	8.5	66.	9.8
6	69.	12.6	88.	8.5	67.	70.7	67.	8.7	67.	9.9
7	67.	12.6	88.	8.6	65.	69.9	65.	8.6	65.	9.8
8	67.	13.5	88.	8.8	67.	67.5	67.	8.7	67.	10.4
9	68.	15.0	87.	8.9	68.	63.0	68.	8.9	68.	11.3
10	66.	15.8	86.	9.0	66.	59.5	66.	8.7	66.	11.6
11	63.	17.1	86.	9.0	63.	55.3	63.	8.7	63.	12.1
12	64.	18.2	86.	9.0	64.	52.2	64.	8.8	64.	12.7
13	63.	19.0	87.	8.9	63.	49.6	63.	8.7	63.	13.0
14	63.	19.4	87.	8.8	63.	47.9	63.	8.5	63.	13.1
15	65.	20.2	88.	8.9	65.	47.1	65.	8.8	65.	13.7
16	67.	20.5	89.	8.9	67.	46.4	67.	8.8	67.	13.8
17	68.	20.8	89.	9.0	68.	46.1	68.	8.9	68.	14.0
18	73.	20.7	89.	9.1	72.	47.5	72.	9.2	72.	14.1
19	74.	19.9	89.	9.3	73.	50.6	73.	9.4	73.	14.0
20	73.	18.6	89.	9.5	71.	54.3	71.	9.4	71.	13.3
21	73.	17.5	89.	9.6	71.	58.3	71.	9.4	71.	12.9
22	71.	16.5	89.	9.6	69.	61.3	69.	9.4	69.	12.5
23	69.	15.7	89.	9.6	67.	63.5	67.	9.4	67.	12.1
24	71.	15.4	89.	9.4	69.	65.4	69.	9.5	69.	12.0
HOURLY MEAN		16.5		9.0		59.2		9.0		12.1
AVG DAILY MAX		21.0		11.6		74.5		10.5		14.5
AVG DAILY MIN		12.5		6.6		45.7		8.0		9.9
ABSOLUTE MAX		35.0		22.4		90.3		19.4		25.0
ABSOLUTE MIN		-6.0		-10.5		19.0		2.1		-7.1
TOTAL OBS	1646		2116		1620		1620		1620	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-JUN 1996

JAN-JUN HOUR AVERAGES FOR THE PERIOD 1/ 1/96 TO 6/30/96

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	157.	4.6	179.	0.0	154.	65.5	154.	5.7	154.	2.2
2	157.	4.1	178.	0.0	153.	66.7	153.	5.6	153.	2.0
3	156.	3.9	178.	-0.1	152.	67.0	152.	5.6	152.	1.9
4	156.	3.5	178.	-0.2	152.	67.7	152.	5.5	152.	1.6
5	152.	2.9	177.	-0.5	148.	67.9	148.	5.3	148.	1.0
6	154.	2.9	177.	-0.5	150.	68.7	150.	5.4	150.	1.1
7	151.	2.6	177.	-0.4	147.	69.3	147.	5.3	147.	0.8
8	152.	3.0	177.	-0.3	150.	68.5	150.	5.4	150.	1.3
9	153.	4.2	177.	-0.3	152.	65.4	152.	5.6	152.	1.8
10	152.	5.1	176.	-0.1	151.	61.5	151.	5.4	151.	2.4
11	147.	6.3	175.	0.2	146.	57.8	146.	5.4	146.	3.0
12	149.	7.5	175.	0.4	148.	54.7	148.	5.5	148.	3.8
13	149.	8.4	176.	0.6	148.	52.4	148.	5.5	148.	4.3
14	149.	9.2	177.	0.6	148.	50.4	148.	5.5	148.	4.8
15	150.	10.0	178.	0.8	149.	49.2	149.	5.6	149.	5.3
16	153.	10.4	179.	0.9	152.	48.3	152.	5.6	152.	5.6
17	154.	10.6	179.	0.9	153.	48.3	153.	5.7	153.	5.7
18	158.	10.5	178.	0.8	156.	49.6	156.	5.9	156.	5.7
19	159.	9.6	179.	0.8	157.	52.3	157.	6.0	157.	5.3
20	159.	8.3	179.	0.8	156.	55.6	156.	5.9	156.	4.5
21	158.	7.4	179.	0.7	155.	58.6	155.	5.9	155.	4.1
22	156.	6.5	179.	0.6	153.	61.1	153.	5.9	153.	3.5
23	155.	5.7	179.	0.5	152.	62.9	152.	5.8	152.	3.0
24	158.	5.2	179.	0.3	155.	64.7	155.	5.8	155.	2.7
HOURLY MEAN		6.3		0.3		59.7		5.6		3.2
AVG DAILY MAX		12.0		3.4		74.8		[illegible]		7.0
AVG DAILY MIN		2.5		-3.1		46.8		5.0		0.6
ABSOLUTE MAX		35.0		22.4		96.4		19.4		25.0
ABSOLUTE MIN		-28.1		-29.9		19.0		0.4		-25.8
TOTAL OBS	3696		4265		3637		3637		3637	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/96 TO 9/30/96

JULY

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	28.	21.5	31.	16.5	28.	73.0	28.	13.9	28.	18.3
2	28.	21.0	31.	16.3	28.	74.0	28.	13.7	28.	18.0
3	27.	20.6	31.	16.1	27.	74.9	27.	13.6	27.	17.8
4	28.	20.2	31.	16.0	28.	76.1	28.	13.5	28.	17.5
5	27.	20.0	31.	16.0	27.	76.8	27.	13.4	27.	17.4
6	27.	19.8	31.	16.0	27.	78.0	27.	13.5	27.	17.4
7	28.	20.4	31.	16.3	28.	76.8	28.	13.7	28.	17.8
8	28.	21.7	31.	16.5	28.	72.0	28.	13.8	28.	18.4
9	27.	22.9	31.	16.6	27.	67.5	27.	13.9	27.	18.9
10	27.	24.1	31.	16.4	27.	62.0	27.	13.7	27.	19.3
11	27.	24.7	31.	16.2	27.	58.8	27.	13.4	27.	19.3
12	25.	25.1	31.	16.2	25.	56.0	25.	13.0	25.	19.2
13	23.	25.4	31.	16.2	23.	54.5	23.	12.9	23.	19.1
14	23.	25.7	31.	16.1	23.	53.1	23.	12.8	23.	19.2
15	23.	26.1	31.	16.1	23.	51.8	23.	12.7	23.	19.3
16	27.	26.6	31.	16.1	27.	51.7	27.	13.0	27.	19.7
17	28.	26.7	31.	16.2	28.	52.6	28.	13.3	28.	19.9
18	29.	26.6	31.	16.3	29.	53.4	29.	13.5	29.	20.0
19	30.	25.9	31.	16.5	30.	56.7	30.	13.8	30.	20.0
20	30.	24.4	31.	16.9	30.	63.3	30.	14.2	30.	19.7
21	30.	23.3	31.	17.0	30.	67.8	30.	14.3	30.	19.3
22	30.	22.6	31.	16.9	30.	70.5	30.	14.3	30.	19.1
23	30.	22.2	31.	16.7	30.	71.3	30.	14.1	30.	18.8
24	28.	21.7	31.	16.6	28.	72.3	28.	13.9	28.	18.4
HOURLY MEAN		23.3		16.4		65.5		13.6		18.8
AVG DAILY MAX		27.7		18.6		79.8		15.8		20.8
AVG DAILY MIN		19.5		13.9		48.6		11.8		16.7
ABSOLUTE MAX		35.8		26.0		85.3		24.0		27.4
ABSOLUTE MIN		13.0		5.0		29.9		6.4		11.7
TOTAL OBS	658		744		658		658		658	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/96 TO 9/30/96

AUGUST

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	25.	21.1	31.	17.1	25.	77.1	25.	14.3	25.	18.5
2	25.	20.6	31.	17.0	25.	78.4	25.	14.1	25.	18.2
3	23.	20.3	31.	16.8	23.	78.8	23.	14.0	23.	18.0
4	23.	20.1	31.	16.7	23.	79.5	23.	13.9	23.	17.8
5	19.	19.6	31.	16.6	19.	80.7	19.	13.7	19.	17.5
6	19.	19.4	31.	16.5	19.	81.0	19.	13.6	19.	17.4
7	18.	19.5	31.	16.6	18.	81.3	18.	13.8	18.	17.5
8	18.	20.4	31.	17.0	18.	79.3	18.	14.1	18.	18.1
9	18.	21.8	31.	17.4	18.	76.1	18.	14.7	18.	19.0
10	19.	23.3	31.	17.8	19.	71.1	19.	14.9	19.	19.8
11	19.	24.5	31.	17.9	19.	66.1	19.	14.8	19.	20.1
12	20.	25.2	31.	18.0	20.	62.7	20.	14.6	20.	20.3
13	22.	25.7	31.	18.0	22.	61.4	22.	14.8	22.	20.5
14	23.	26.3	31.	17.9	23.	59.9	23.	14.8	23.	20.8
15	24.	26.6	31.	18.0	24.	59.6	24.	14.9	24.	20.9
16	24.	26.6	31.	18.0	24.	59.3	24.	14.9	24.	21.0
17	24.	26.7	31.	18.0	24.	59.1	24.	15.0	24.	21.0
18	26.	26.5	31.	18.2	26.	60.9	26.	15.3	26.	21.2
19	28.	25.6	31.	18.5	28.	65.0	28.	15.5	28.	21.0
20	28.	24.1	31.	18.5	28.	70.9	28.	15.6	28.	20.5
21	27.	23.3	31.	18.3	27.	73.3	27.	15.4	27.	20.1
22	26.	22.8	31.	18.0	26.	73.8	26.	15.1	26.	19.7
23	26.	22.3	31.	17.8	26.	75.3	26.	14.9	26.	19.3
24	24.	21.8	31.	17.6	24.	76.2	24.	14.6	24.	19.0
HOURLY MEAN		23.2		17.6		70.8		14.7		19.6
AVG DAILY MAX		26.9		19.3		81.5		16.2		21.4
AVG DAILY MIN		20.1		15.9		58.5		13.6		17.8
ABSOLUTE MAX		32.0		23.6		90.9		20.7		26.0
ABSOLUTE MIN		15.9		12.3		40.8		10.7		14.5
TOTAL OBS	548		744		548		548		548	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/96 TO 9/30/96

SEPTEMBR

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	27.	15.9	30.	11.0	27.	71.7	27.	10.0	27.	13.1
2	27.	15.5	30.	10.8	27.	72.6	27.	9.9	27.	12.8
3	27.	15.1	30.	10.6	27.	73.4	27.	9.8	27.	12.6
4	27.	14.7	30.	10.4	27.	74.6	27.	9.7	27.	12.4
5	27.	14.2	30.	10.1	27.	75.7	27.	9.6	27.	12.0
6	26.	13.9	30.	10.0	26.	76.7	26.	9.5	26.	11.8
7	24.	13.6	30.	10.1	24.	77.8	24.	9.5	24.	11.6
8	23.	14.5	30.	10.4	23.	75.5	23.	9.8	23.	12.3
9	20.	15.8	30.	10.8	20.	69.7	20.	9.7	20.	12.8
10	16.	16.8	30.	11.1	16.	62.2	16.	9.2	16.	12.9
11	15.	17.7	30.	11.1	15.	58.9	15.	9.2	15.	13.3
12	14.	18.0	30.	11.0	14.	53.8	14.	8.4	14.	12.8
13	15.	19.1	30.	10.9	15.	52.3	15.	8.7	15.	13.5
14	16.	20.1	30.	10.8	16.	50.8	16.	9.0	16.	14.1
15	16.	20.6	30.	10.9	16.	49.1	16.	8.9	16.	14.4
16	20.	20.9	30.	10.9	20.	48.3	20.	8.9	20.	14.5
17	20.	20.5	30.	11.2	20.	50.0	20.	8.9	20.	14.4
18	26.	21.1	30.	11.5	26.	53.6	26.	10.1	26.	15.4
19	24.	19.3	30.	11.8	24.	59.5	24.	10.1	24.	14.7
20	26.	18.3	30.	11.8	26.	64.9	26.	10.4	26.	14.5
21	27.	17.5	30.	11.7	27.	68.1	27.	10.4	27.	14.2
22	27.	17.0	30.	11.6	27.	69.6	27.	10.4	27.	13.9
23	27.	16.6	30.	11.3	27.	70.0	27.	10.2	27.	13.6
24	27.	16.2	30.	11.1	27.	70.4	27.	10.0	27.	13.3
HOURLY MEAN		17.0		11.0		66.0		9.7		13.3
AVG DAILY MAX		21.8		13.1		78.1		11.0		15.8
AVG DAILY MIN		13.5		8.9		50.2		8.9		11.3
ABSOLUTE MAX		29.2		19.4		86.7		16.5		22.1
ABSOLUTE MIN		5.8		-0.2		26.9		4.5		3.9
TOTAL OBS	544		720		544		544		544	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 1996

JUL-SEP HOUR AVERAGES FOR THE PERIOD 7/ 1/96 TO 9/30/96

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	80.	19.5	92.	14.9	80.	73.9	80.	12.7	80.	16.6
2	80.	19.0	92.	14.7	80.	74.9	80.	12.5	80.	16.3
3	77.	18.6	92.	14.6	77.	75.6	77.	12.4	77.	16.0
4	78.	18.3	92.	14.4	78.	76.6	78.	12.3	78.	15.8
5	73.	17.7	92.	14.3	73.	77.4	73.	12.1	73.	15.4
6	72.	17.6	92.	14.2	72.	78.3	72.	12.1	72.	15.4
7	70.	17.8	92.	14.4	70.	78.3	70.	12.3	70.	15.6
8	69.	19.0	92.	14.7	69.	75.1	69.	12.5	69.	16.3
9	65.	20.4	92.	15.0	65.	70.6	65.	12.8	65.	17.1
10	62.	22.0	92.	15.1	62.	64.9	62.	12.9	62.	17.8
11	61.	22.9	92.	15.1	61.	61.1	61.	12.8	61.	18.1
12	59.	23.5	92.	15.1	59.	57.8	59.	12.5	59.	18.0
13	60.	23.9	92.	15.0	60.	56.5	60.	12.5	60.	18.3
14	62.	24.5	92.	15.0	62.	55.0	62.	12.5	62.	18.5
15	63.	24.9	92.	15.0	63.	54.1	63.	12.6	63.	18.7
16	71.	25.0	92.	15.0	71.	53.3	71.	12.5	71.	18.7
17	72.	25.0	92.	15.2	72.	54.1	72.	12.7	72.	18.8
18	81.	24.8	92.	15.4	81.	55.9	81.	13.0	81.	18.9
19	82.	23.9	92.	15.6	82.	60.3	82.	13.3	82.	18.8
20	84.	22.4	92.	15.8	84.	66.3	84.	13.5	84.	18.3
21	84.	21.4	92.	15.7	84.	69.7	84.	13.4	84.	17.9
22	83.	20.9	92.	15.6	83.	71.3	83.	13.3	83.	17.6
23	83.	20.4	92.	15.3	83.	72.1	83.	13.1	83.	17.3
24	79.	19.8	92.	15.1	79.	72.8	79.	12.8	79.	16.8
HOURLY MEAN		21.3		15.0		67.3		12.7		17.3
AVG DAILY MAX		25.5		17.1		79.8		14.4		19.4
AVG DAILY MIN		17.7		12.9		52.5		11.4		15.3
ABSOLUTE MAX		35.8		26.0		90.9		24.0		27.4
ABSOLUTE MIN		5.8		-0.2		26.9		4.5		3.9
TOTAL OBS	1750		2208		1750		1750		1750	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/96 TO 12/31/96

OCTOBER

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	29.	11.6	30.	4.5	28.	64.4	28.	7.0	28.	8.3
2	29.	11.1	30.	4.5	28.	66.4	28.	7.0	28.	8.0
3	29.	10.4	30.	4.3	28.	68.8	28.	6.9	28.	7.6
4	29.	9.8	29.	4.0	28.	69.8	28.	6.7	28.	7.1
5	27.	9.4	29.	3.8	26.	70.0	26.	6.5	26.	6.7
6	27.	9.1	29.	3.7	26.	70.9	26.	6.5	26.	6.5
7	27.	8.9	29.	3.7	26.	71.7	26.	6.5	26.	6.4
8	26.	9.3	29.	3.9	25.	70.1	25.	6.5	25.	6.5
9	26.	10.6	29.	4.0	25.	64.4	25.	6.5	25.	7.2
10	26.	12.3	29.	4.6	26.	59.2	26.	6.8	26.	8.6
11	26.	13.8	29.	4.5	26.	53.5	26.	6.8	26.	9.2
12	29.	15.2	30.	4.5	29.	49.9	29.	6.9	29.	10.0
13	29.	16.3	29.	4.2	28.	45.8	28.	6.8	28.	10.4
14	29.	17.2	29.	4.0	28.	42.9	28.	6.7	28.	10.8
15	29.	17.8	28.	4.5	27.	41.2	27.	6.8	27.	11.4
16	30.	18.0	30.	3.9	29.	40.6	29.	6.6	29.	11.0
17	30.	17.8	30.	4.1	29.	41.7	29.	6.7	29.	11.0
18	29.	16.7	30.	4.2	28.	45.2	28.	6.8	28.	10.6
19	29.	15.2	30.	4.3	28.	50.0	28.	6.9	28.	10.0
20	29.	14.1	30.	4.3	28.	53.3	28.	6.9	28.	9.5
21	29.	13.4	30.	4.2	28.	55.6	28.	6.8	28.	9.1
22	29.	12.7	30.	4.0	28.	57.5	28.	6.8	28.	8.7
23	29.	12.1	30.	4.0	28.	59.8	28.	6.7	28.	8.3
24	29.	11.5	30.	4.0	28.	62.4	28.	6.8	28.	8.1
HOURLY MEAN		13.2		4.2		57.1		6.7		8.8
AVG DAILY MAX		18.3		7.7		73.6		8.3		12.0
AVG DAILY MIN		8.2		1.2		40.2		5.5		5.7
ABSOLUTE MAX		28.2		15.2		91.9		12.8		19.9
ABSOLUTE MIN		0.0		-11.0		19.0		2.1		-2.4
TOTAL OBS	680		708		658		658		658	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/96 TO 12/31/96

NOVEMBER

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	29.	0.9	29.	-4.7	29.	67.7	29.	3.7	29.	-1.0
2	29.	0.5	29.	-5.0	29.	67.5	29.	3.6	29.	-1.4
3	29.	0.4	29.	-5.0	29.	68.0	29.	3.6	29.	-1.5
4	29.	0.2	29.	-4.9	29.	69.4	29.	3.7	29.	-1.5
5	29.	0.1	28.	-4.6	28.	71.2	28.	3.8	28.	-1.5
6	28.	-0.2	27.	-4.7	27.	72.3	27.	3.8	27.	-1.8
7	28.	-0.3	27.	-4.6	27.	73.0	27.	3.8	27.	-1.8
8	28.	-0.4	27.	-4.7	27.	73.3	27.	3.8	27.	-1.9
9	28.	0.0	27.	-4.5	27.	71.8	27.	3.8	27.	-1.6
10	26.	0.6	25.	-4.5	25.	69.7	25.	3.8	25.	-1.3
11	25.	1.1	26.	-4.6	25.	65.2	25.	3.7	25.	-1.0
12	25.	1.9	26.	-4.6	25.	62.3	25.	3.6	25.	-0.6
13	25.	2.6	26.	-4.5	25.	60.0	25.	3.6	25.	-0.1
14	25.	3.1	26.	-4.4	25.	58.9	25.	3.7	25.	0.2
15	26.	3.4	26.	-4.2	25.	58.9	25.	3.7	25.	0.5
16	27.	3.8	27.	-4.9	26.	57.2	26.	3.7	26.	0.6
17	27.	3.7	28.	-4.3	26.	57.4	26.	3.6	26.	0.5
18	27.	3.2	28.	-4.3	26.	59.3	26.	3.7	26.	0.3
19	27.	2.7	29.	-4.2	27.	61.0	27.	3.7	27.	0.1
20	27.	2.4	29.	-4.2	27.	62.5	27.	3.7	27.	-0.1
21	27.	2.0	29.	-4.3	27.	64.1	27.	3.7	27.	-0.3
22	27.	1.9	29.	-4.3	27.	65.0	27.	3.8	27.	-0.4
23	28.	1.5	29.	-4.3	28.	66.6	28.	3.8	28.	-0.6
24	28.	1.2	29.	-4.6	28.	66.6	28.	3.7	28.	-0.9
HOURLY MEAN		1.5		-4.5		65.5		3.7		-0.7
AVG DAILY MAX		5.1		-1.1		77.3		4.8		2.3
AVG DAILY MIN		-1.0		-7.7		52.9		3.1		-2.7
ABSOLUTE MAX		15.7		11.5		91.3		10.3		12.4
ABSOLUTE MIN		-11.7		-25.5		19.0		0.6		-12.6
TOTAL OBS	654		664		644		644		644	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 1996

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/96 TO 12/31/96

DECEMBER

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	29.	-5.1	31.	-8.1	29.	75.5	29.	2.8	29.	-6.2
2	29.	-5.4	31.	-8.2	29.	76.4	29.	2.7	29.	-6.4
3	29.	-5.4	31.	-8.2	29.	77.2	29.	2.8	29.	-6.5
4	29.	-5.6	31.	-8.2	29.	78.0	29.	2.8	29.	-6.6
5	29.	-5.8	31.	-8.3	29.	79.1	29.	2.8	29.	-6.7
6	28.	-6.1	31.	-8.2	28.	78.9	28.	2.7	28.	-7.0
7	28.	-5.8	31.	-8.2	28.	79.0	28.	2.7	28.	-6.7
8	28.	-5.9	31.	-8.2	28.	79.0	28.	2.7	28.	-6.8
9	28.	-5.7	31.	-8.0	28.	78.9	28.	2.8	28.	-6.6
10	27.	-5.0	31.	-7.9	27.	74.0	27.	2.7	27.	-6.2
11	27.	-4.0	31.	-7.5	27.	70.7	27.	2.8	27.	-5.4
12	27.	-2.9	31.	-7.1	27.	67.0	27.	2.9	27.	-4.6
13	28.	-1.5	31.	-6.7	28.	64.7	28.	3.1	28.	-3.5
14	28.	-0.6	31.	-6.3	28.	62.8	28.	3.1	28.	-2.8
15	28.	0.0	31.	-6.0	28.	61.9	28.	3.2	28.	-2.3
16	28.	0.1	31.	-5.9	28.	61.3	28.	3.2	28.	-2.2
17	28.	-0.1	31.	-6.0	28.	62.1	28.	3.2	28.	-2.4
18	27.	-1.3	31.	-6.1	27.	65.9	27.	3.2	27.	-3.2
19	28.	-2.1	31.	-6.3	28.	69.0	28.	3.1	28.	-3.8
20	28.	-2.6	31.	-6.7	28.	70.0	28.	3.1	28.	-4.2
21	29.	-3.2	31.	-7.1	29.	71.6	29.	3.0	29.	-4.6
22	28.	-4.1	31.	-7.5	28.	72.3	28.	2.9	28.	-5.5
23	28.	-4.7	31.	-7.7	28.	74.0	28.	2.8	28.	-5.9
24	28.	-5.0	31.	-7.8	28.	74.9	28.	2.8	28.	-6.2
HOURLY MEAN		-3.7		-7.3		71.9		2.9		-5.1
AVG DAILY MAX		0.9		-4.4		84.2		3.6		-1.4
AVG DAILY MIN		-7.1		-10.5		59.7		2.5		-8.0
ABSOLUTE MAX		12.0		5.1		99.3		6.5		8.5
ABSOLUTE MIN		-18.1		-21.8		36.1		0.9		-18.6
TOTAL OBS	674		744		674		674		674	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 1996

OCT-DEC HOUR AVERAGES FOR THE PERIOD 10/ 1/96 TO 12/31/96

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	87.	2.4	90.	-2.8	86.	69.3	86.	4.5	86.	0.2
2	87.	2.1	90.	-2.9	86.	70.2	86.	4.4	86.	0.0
3	87.	1.8	90.	-3.0	86.	71.4	86.	4.4	86.	-0.2
4	87.	1.5	89.	-3.1	86.	72.4	86.	4.3	86.	-0.4
5	85.	1.1	88.	-3.1	83.	73.6	83.	4.3	83.	-0.8
6	83.	0.8	87.	-3.2	81.	74.1	81.	4.2	81.	-1.0
7	83.	0.8	87.	-3.1	81.	74.6	81.	4.3	81.	-0.9
8	82.	0.8	87.	-3.1	80.	74.3	80.	4.3	80.	-1.0
9	82.	1.4	87.	-2.9	80.	72.0	80.	4.3	80.	-0.6
10	79.	2.5	85.	-2.6	78.	67.7	78.	4.4	78.	0.3
11	78.	3.6	86.	-2.6	78.	63.2	78.	4.4	78.	0.9
12	81.	5.1	87.	-2.4	81.	59.4	81.	4.6	81.	1.9
13	82.	6.1	86.	-2.3	81.	56.7	81.	4.5	81.	2.4
14	82.	6.8	86.	-2.2	81.	54.7	81.	4.5	81.	2.8
15	83.	7.3	85.	-2.0	80.	54.0	80.	4.6	80.	3.2
16	85.	7.6	88.	-2.2	83.	52.8	83.	4.5	83.	3.3
17	85.	7.4	89.	-2.1	83.	53.5	83.	4.6	83.	3.2
18	83.	6.4	89.	-2.1	81.	56.6	81.	4.6	81.	2.7
19	84.	5.4	90.	-2.1	83.	60.0	83.	4.6	83.	2.1
20	84.	4.8	90.	-2.2	83.	61.9	83.	4.6	83.	1.8
21	85.	4.1	90.	-2.4	84.	63.8	84.	4.5	84.	1.3
22	84.	3.6	90.	-2.6	83.	64.9	83.	4.5	83.	1.0
23	85.	3.1	90.	-2.7	84.	66.8	84.	4.4	84.	0.6
24	85.	2.7	90.	-2.8	84.	68.0	84.	4.4	84.	0.4
HOURLY MEAN		3.7		-2.6		64.9		4.4		1.0
AVG DAILY MAX		8.1		0.8		78.4		5.6		4.3
AVG DAILY MIN		0.0		-5.6		50.9		3.7		-1.7
ABSOLUTE MAX		28.2		15.2		99.3		12.8		19.9
ABSOLUTE MIN		-18.1		-25.5		19.0		0.6		-18.6
TOTAL OBS	2008		2116		1976		1976		1976	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-DEC 1996

JUL-DEC HOUR AVERAGES FOR THE PERIOD 7/ 1/96 TO 12/31/96

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	167.	10.6	182.	6.2	166.	71.5	166.	8.4	166.	8.1
2	167.	10.2	182.	6.0	166.	72.4	166.	8.3	166.	7.9
3	164.	9.7	182.	5.9	163.	73.4	163.	8.2	163.	7.5
4	165.	9.4	181.	5.8	164.	74.4	164.	8.1	164.	7.3
5	158.	8.8	180.	5.8	156.	75.4	156.	7.9	156.	6.8
6	155.	8.6	179.	5.8	153.	76.1	153.	7.9	153.	6.7
7	153.	8.6	179.	5.9	151.	76.3	151.	8.0	151.	6.7
8	151.	9.1	179.	6.0	149.	74.6	149.	8.1	149.	7.0
9	147.	9.8	179.	6.3	145.	71.3	145.	8.1	145.	7.3
10	141.	11.1	177.	6.6	140.	66.4	140.	8.2	140.	8.1
11	139.	12.1	178.	6.6	139.	62.3	139.	8.1	139.	8.4
12	140.	12.8	179.	6.6	140.	58.7	140.	7.9	140.	8.7
13	142.	13.6	178.	6.6	141.	56.6	141.	7.9	141.	9.1
14	144.	14.4	178.	6.7	143.	54.9	143.	8.0	143.	9.6
15	146.	14.9	177.	6.9	143.	54.0	143.	8.1	143.	10.0
16	156.	15.5	180.	6.6	154.	53.0	154.	8.2	154.	10.4
17	157.	15.5	181.	6.7	155.	53.8	155.	8.3	155.	10.4
18	164.	15.5	181.	6.8	162.	56.2	162.	8.8	162.	10.8
19	166.	14.5	182.	6.9	165.	60.2	165.	8.9	165.	10.4
20	168.	13.6	182.	6.9	167.	64.2	167.	9.1	167.	10.1
21	169.	12.7	182.	6.7	168.	66.8	168.	9.0	168.	9.6
22	167.	12.2	182.	6.6	166.	68.1	166.	8.9	166.	9.3
23	168.	11.6	182.	6.4	167.	69.4	167.	8.7	167.	8.9
24	164.	10.9	182.	6.3	163.	70.3	163.	8.5	163.	8.3
HOURLY MEAN		11.9		6.4		66.0		8.3		8.7
AVG DAILY MAX		16.8		8.9		79.1		9.9		11.8
AVG DAILY MIN		8.8		3.6		51.7		7.5		6.8
ABSOLUTE MAX		35.8		26.0		99.3		24.0		27.4
ABSOLUTE MIN		-18.1		-25.5		19.0		0.6		-18.6
TOTAL OBS	3758		4324		3726		3726		3726	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-DEC 1996

JAN-DEC HOUR AVERAGES FOR THE PERIOD 1/ 1/96 TO 12/31/96

10.0 METERS LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG C)	DEW POINT NUMBER OBS	DEW POINT (DEG C)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG C)
1	324.	7.7	361.	3.1	320.	68.6	320.	7.1	320.	5.3
2	324.	7.2	360.	3.0	319.	69.7	319.	7.0	319.	5.0
3	320.	6.9	360.	2.9	315.	70.3	315.	6.9	315.	4.8
4	321.	6.5	359.	2.8	316.	71.2	316.	6.9	316.	4.5
5	310.	5.9	357.	2.7	304.	71.7	304.	6.7	304.	4.0
6	309.	5.7	356.	2.6	303.	72.4	303.	6.7	303.	3.9
7	304.	5.6	354.	2.7	298.	72.8	298.	6.7	298.	3.8
8	303.	6.1	356.	2.9	299.	71.6	299.	6.8	299.	4.1
9	300.	6.9	356.	3.0	297.	68.3	297.	6.8	297.	4.5
10	293.	8.0	353.	3.3	291.	63.9	291.	6.8	291.	5.1
11	286.	9.1	353.	3.4	285.	60.0	285.	6.7	285.	5.7
12	289.	10.1	354.	3.5	288.	56.7	288.	6.7	288.	6.2
13	291.	10.9	354.	3.6	289.	54.5	289.	6.7	289.	6.7
14	293.	11.8	355.	3.7	291.	52.6	291.	6.7	291.	7.1
15	296.	12.4	355.	3.8	292.	51.6	292.	6.8	292.	7.6
16	309.	13.0	359.	3.8	306.	50.7	306.	6.9	306.	8.0
17	311.	13.0	360.	3.8	308.	51.0	308.	7.0	308.	8.1
18	322.	13.1	359.	3.9	318.	53.0	318.	7.4	318.	8.3
19	325.	12.1	361.	3.9	322.	56.3	322.	7.5	322.	7.9
20	327.	11.0	361.	3.9	323.	60.0	323.	7.5	323.	7.4
21	327.	10.2	361.	3.8	323.	62.8	323.	7.5	323.	6.9
22	323.	9.4	361.	3.6	319.	64.7	319.	7.4	319.	6.5
23	323.	8.8	361.	3.5	319.	66.3	319.	7.3	319.	6.1
24	322.	8.1	361.	3.3	318.	67.6	318.	7.2	318.	5.6
HOURLY MEAN		9.1		3.4		62.9		7.0		6.0
AVG DAILY MAX		14.4		6.2		77.0		8.5		9.4
AVG DAILY MIN		5.7		0.3		49.3		6.3		3.7
ABSOLUTE MAX		35.8		26.0		99.3		24.0		27.4
ABSOLUTE MIN		-28.1		-29.9		19.0		0.4		-25.8
TOTAL OBS	7452		8589		7363		7363		7363	

Wind Direction Frequencies

10-Meter Level*

* The 10 meter wind direction values for the months of July, August and September were taken from the 10 meter back-up tower.

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1996

PROGRAM: WINPER
VERSION: 2P

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	9.7	3.2	0.0	0.0	3.2	12.9	0.0	0.0	16.1	6.5	3.2	9.7	3.2	9.7	22.6	0.0	0.0	100.
2	12.9	9.7	0.0	0.0	6.5	6.5	3.2	6.5	3.2	9.7	0.0	6.5	0.0	12.9	22.6	0.0	0.0	100.
3	12.9	6.5	0.0	3.2	6.5	3.2	9.7	9.7	3.2	0.0	3.2	0.0	3.2	19.4	19.4	0.0	0.0	100.
4	12.9	3.2	6.5	3.2	0.0	6.5	12.9	3.2	3.2	0.0	0.0	3.2	6.5	19.4	16.1	3.2	0.0	100.
5	9.7	3.2	0.0	3.2	6.5	3.2	12.9	3.2	6.5	3.2	0.0	9.7	9.7	12.9	12.9	3.2	0.0	100.
6	6.5	9.7	0.0	0.0	6.5	3.2	9.7	6.5	6.5	0.0	3.2	3.2	3.2	19.4	19.4	3.2	0.0	100.
7	6.5	3.2	0.0	3.2	3.2	6.5	0.0	12.9	6.5	3.2	3.2	9.7	0.0	12.9	12.9	16.1	0.0	100.
8	6.5	3.2	3.2	3.2	6.5	0.0	3.2	9.7	6.5	3.2	3.2	3.2	6.5	12.9	6.5	22.6	0.0	100.
9	6.5	0.0	6.5	0.0	6.5	6.5	3.2	9.7	6.5	3.2	0.0	3.2	12.9	6.5	16.1	12.9	0.0	100.
10	9.7	0.0	0.0	3.2	6.5	6.5	0.0	9.7	3.2	9.7	0.0	6.5	6.5	12.9	16.1	9.7	0.0	100.
11	9.7	0.0	0.0	0.0	3.2	6.5	6.5	6.5	6.5	6.5	0.0	3.2	9.7	16.1	16.1	9.7	0.0	100.
12	9.7	0.0	3.2	0.0	3.2	9.7	3.2	3.2	9.7	3.2	6.5	0.0	12.9	9.7	22.6	3.2	0.0	100.
13	9.7	0.0	0.0	0.0	3.2	6.5	3.2	9.7	9.7	6.5	0.0	12.9	3.2	16.1	16.1	3.2	0.0	100.
14	9.7	0.0	0.0	0.0	3.2	3.2	9.7	12.9	6.5	3.2	3.2	6.5	6.5	9.7	25.8	0.0	0.0	100.
15	9.7	0.0	0.0	0.0	3.2	9.7	3.2	19.4	6.5	3.2	3.2	0.0	9.7	6.5	25.8	0.0	0.0	100.
16	6.5	3.2	0.0	0.0	3.2	3.2	9.7	16.1	3.2	9.7	3.2	6.5	3.2	6.5	22.6	3.2	0.0	100.
17	9.7	3.2	0.0	0.0	3.2	12.9	3.2	9.7	16.1	3.2	0.0	3.2	3.2	9.7	19.4	3.2	0.0	100.
18	3.2	3.2	0.0	3.2	3.2	6.5	12.9	9.7	9.7	3.2	0.0	6.5	3.2	9.7	16.1	9.7	0.0	100.
19	3.2	6.5	3.2	3.2	3.2	6.5	6.5	9.7	12.9	6.5	0.0	3.2	6.5	3.2	22.6	3.2	0.0	100.
20	9.7	6.5	0.0	0.0	0.0	6.5	16.1	6.5	16.1	3.2	0.0	6.5	0.0	3.2	19.4	6.5	0.0	100.
21	9.7	6.5	0.0	0.0	3.2	3.2	16.1	9.7	9.7	0.0	0.0	6.5	0.0	9.7	25.8	0.0	0.0	100.
22	6.5	6.5	0.0	0.0	3.2	3.2	19.4	6.5	12.9	3.2	0.0	0.0	3.2	9.7	22.6	3.2	0.0	100.
23	9.7	3.2	0.0	0.0	0.0	9.7	19.4	3.2	9.7	0.0	6.5	0.0	3.2	12.9	19.4	3.2	0.0	100.
24	9.7	3.2	0.0	0.0	3.2	9.7	6.5	12.9	9.7	9.7	0.0	0.0	6.5	9.7	19.4	0.0	0.0	100.
ALL	8.7	3.5	0.9	1.1	3.8	6.3	7.9	8.6	8.3	4.2	1.6	4.6	5.1	11.3	19.1	5.0	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1996

PROGRAM: WINPER
VERSION: 2P

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	0.0	3.4	3.4	0.0	0.0	3.4	6.9	3.4	13.8	13.8	10.3	3.4	3.4	0.0	27.6	6.9	0.0	100.
2	0.0	0.0	3.4	3.4	0.0	3.4	6.9	6.9	13.8	10.3	6.9	3.4	6.9	3.4	20.7	10.3	0.0	100.
3	0.0	0.0	3.4	3.4	0.0	3.4	3.4	6.9	13.8	6.9	6.9	6.9	3.4	3.4	27.6	10.3	0.0	100.
4	0.0	0.0	0.0	3.4	3.4	0.0	3.4	10.3	13.8	0.0	10.3	10.3	3.4	13.8	17.2	10.3	0.0	100.
5	3.4	0.0	0.0	3.4	3.4	3.4	6.9	17.2	3.4	6.9	3.4	6.9	6.9	6.9	20.7	6.9	0.0	100.
6	3.4	0.0	0.0	3.4	3.4	0.0	3.4	24.1	3.4	0.0	3.4	6.9	3.4	6.9	27.6	10.3	0.0	100.
7	10.3	0.0	0.0	3.4	0.0	3.4	6.9	10.3	10.3	10.3	0.0	3.4	3.4	13.8	20.7	3.4	0.0	100.
8	0.0	0.0	3.4	0.0	3.4	0.0	3.4	10.3	10.3	6.9	3.4	6.9	0.0	13.8	20.7	17.2	0.0	100.
9	0.0	0.0	0.0	3.4	0.0	3.4	6.9	13.8	3.4	3.4	3.4	0.0	0.0	20.7	17.2	24.1	0.0	100.
10	0.0	0.0	0.0	3.4	0.0	3.4	3.4	13.8	10.3	10.3	0.0	0.0	6.9	6.9	27.6	13.8	0.0	100.
11	3.6	0.0	0.0	3.6	0.0	3.6	3.6	3.6	14.3	10.7	0.0	3.6	3.6	7.1	21.4	21.4	0.0	100.
12	10.7	0.0	0.0	0.0	3.6	3.6	0.0	7.1	7.1	14.3	3.6	3.6	0.0	7.1	28.6	10.7	0.0	100.
13	7.1	3.6	0.0	3.6	0.0	3.6	0.0	7.1	7.1	17.9	0.0	3.6	7.1	14.3	14.3	10.7	0.0	100.
14	6.9	0.0	6.9	0.0	0.0	3.4	0.0	0.0	6.9	24.1	3.4	3.4	0.0	10.3	27.6	6.9	0.0	100.
15	3.4	0.0	3.4	3.4	0.0	3.4	0.0	0.0	6.9	27.6	0.0	3.4	3.4	6.9	24.1	13.8	0.0	100.
16	3.4	0.0	6.9	0.0	0.0	3.4	0.0	3.4	10.3	17.2	0.0	3.4	6.9	6.9	24.1	13.8	0.0	100.
17	10.3	0.0	3.4	0.0	0.0	0.0	3.4	6.9	10.3	20.7	3.4	0.0	0.0	10.3	20.7	10.3	0.0	100.
18	7.1	10.7	3.6	0.0	0.0	0.0	7.1	3.6	10.7	17.9	0.0	3.6	3.6	7.1	17.9	7.1	0.0	100.
19	6.9	0.0	17.2	0.0	0.0	0.0	0.0	3.4	20.7	10.3	6.9	0.0	6.9	0.0	20.7	6.9	0.0	100.
20	6.9	10.3	0.0	3.4	3.4	0.0	0.0	6.9	13.8	13.8	0.0	6.9	0.0	6.9	13.8	13.8	0.0	100.
21	10.3	6.9	3.4	3.4	0.0	3.4	0.0	6.9	24.1	3.4	0.0	10.3	0.0	3.4	13.8	10.3	0.0	100.
22	6.9	0.0	6.9	3.4	0.0	3.4	3.4	3.4	13.8	13.8	10.3	0.0	0.0	6.9	13.8	13.8	0.0	100.
23	0.0	3.4	6.9	3.4	3.4	0.0	3.4	0.0	17.2	17.2	3.4	3.4	0.0	6.9	13.8	17.2	0.0	100.
24	0.0	0.0	6.9	0.0	0.0	3.4	6.9	3.4	13.8	17.2	6.9	3.4	0.0	3.4	24.1	10.3	0.0	100.
ALL	4.2	1.6	3.3	2.2	1.0	2.3	3.3	7.2	11.4	12.3	3.6	4.0	2.9	7.8	21.1	11.7	0.0	100.

NUMBER OF OBS = 692

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1996

PROGRAM: WINPER
VERSION: 2P

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	16.1	0.0	3.2	0.0	0.0	12.9	6.5	12.9	6.5	3.2	0.0	6.5	0.0	3.2	19.4	9.7	0.0	100.
2	9.7	3.2	9.7	0.0	9.7	6.5	3.2	12.9	3.2	3.2	0.0	0.0	3.2	9.7	16.1	9.7	0.0	100.
3	9.7	3.2	3.2	3.2	9.7	6.5	3.2	9.7	3.2	0.0	3.2	6.5	3.2	6.5	9.7	19.4	0.0	100.
4	6.5	3.2	0.0	0.0	6.5	9.7	3.2	9.7	6.5	3.2	6.5	3.2	3.2	3.2	16.1	19.4	0.0	100.
5	6.5	3.2	0.0	3.2	3.2	3.2	16.1	6.5	6.5	3.2	0.0	9.7	6.5	3.2	12.9	16.1	0.0	100.
6	9.7	0.0	0.0	3.2	12.9	12.9	3.2	6.5	6.5	3.2	0.0	3.2	6.5	12.9	9.7	9.7	0.0	100.
7	6.5	0.0	0.0	6.5	6.5	9.7	6.5	9.7	6.5	3.2	0.0	0.0	6.5	6.5	12.9	19.4	0.0	100.
8	6.5	0.0	0.0	6.5	0.0	12.9	9.7	12.9	6.5	0.0	3.2	0.0	6.5	3.2	12.9	19.4	0.0	100.
9	9.7	6.5	0.0	0.0	6.5	3.2	16.1	9.7	6.5	0.0	3.2	6.5	3.2	3.2	6.5	19.4	0.0	100.
10	9.7	6.5	0.0	3.2	3.2	0.0	19.4	3.2	9.7	6.5	0.0	0.0	3.2	6.5	9.7	19.4	0.0	100.
11	9.7	6.5	0.0	0.0	0.0	3.2	19.4	0.0	12.9	3.2	6.5	0.0	0.0	9.7	3.2	25.8	0.0	100.
12	12.9	3.2	0.0	3.2	0.0	3.2	12.9	6.5	16.1	0.0	6.5	0.0	0.0	9.7	9.7	16.1	0.0	100.
13	9.7	6.5	3.2	0.0	3.2	3.2	9.7	6.5	12.9	6.5	3.2	0.0	0.0	6.5	12.9	16.1	0.0	100.
14	16.1	3.2	0.0	0.0	3.2	3.2	9.7	3.2	16.1	3.2	0.0	3.2	0.0	6.5	19.4	12.9	0.0	100.
15	12.9	6.5	0.0	0.0	0.0	6.5	6.5	6.5	12.9	6.5	0.0	0.0	0.0	9.7	19.4	12.9	0.0	100.
16	9.7	3.2	3.2	0.0	3.2	6.5	6.5	12.9	12.9	0.0	0.0	0.0	0.0	6.5	16.1	19.4	0.0	100.
17	12.9	3.2	3.2	0.0	0.0	6.5	9.7	12.9	3.2	6.5	0.0	0.0	0.0	3.2	22.6	16.1	0.0	100.
18	9.7	9.7	0.0	0.0	0.0	9.7	12.9	9.7	6.5	0.0	0.0	0.0	0.0	3.2	12.9	25.8	0.0	100.
19	12.9	9.7	0.0	0.0	0.0	6.5	12.9	9.7	6.5	0.0	0.0	0.0	3.2	0.0	12.9	25.8	0.0	100.
20	12.9	6.5	0.0	0.0	0.0	16.1	3.2	9.7	3.2	3.2	0.0	3.2	0.0	0.0	16.1	25.8	0.0	100.
21	22.6	3.2	0.0	0.0	3.2	9.7	9.7	6.5	3.2	3.2	0.0	0.0	0.0	6.5	12.9	19.4	0.0	100.
22	16.1	6.5	0.0	0.0	3.2	6.5	12.9	3.2	6.5	0.0	0.0	0.0	3.2	3.2	16.1	22.6	0.0	100.
23	19.4	6.5	3.2	3.2	0.0	6.5	12.9	9.7	3.2	0.0	0.0	3.2	0.0	9.7	6.5	16.1	0.0	100.
24	16.1	0.0	3.2	0.0	0.0	9.7	9.7	12.9	6.5	0.0	0.0	3.2	6.5	3.2	12.9	16.1	0.0	100.
ALL	11.8	4.2	1.3	1.3	3.1	7.3	9.8	8.5	7.7	2.4	1.3	2.0	2.3	5.6	13.3	18.0	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1996

PROGRAM: WINPER
VERSION: 2P

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	8.8	2.2	2.2	0.0	1.1	9.9	4.4	5.5	12.1	7.7	4.4	6.6	2.2	4.4	23.1	5.5	0.0	100.
2	7.7	4.4	4.4	1.1	5.5	5.5	4.4	8.8	6.6	7.7	2.2	3.3	3.3	8.8	19.8	6.6	0.0	100.
3	7.7	3.3	2.2	3.3	5.5	4.4	5.5	8.8	6.6	2.2	4.4	4.4	3.3	9.9	18.7	9.9	0.0	100.
4	6.6	2.2	2.2	2.2	3.3	5.5	6.6	7.7	7.7	1.1	5.5	5.5	4.4	12.1	16.5	11.0	0.0	100.
5	6.6	2.2	0.0	3.3	4.4	3.3	12.1	8.8	5.5	4.4	1.1	8.8	7.7	7.7	15.4	8.8	0.0	100.
6	6.6	3.3	0.0	2.2	7.7	5.5	5.5	12.1	5.5	1.1	2.2	4.4	4.4	13.2	18.7	7.7	0.0	100.
7	7.7	1.1	0.0	4.4	3.3	6.6	4.4	11.0	7.7	5.5	1.1	4.4	3.3	11.0	15.4	13.2	0.0	100.
8	4.4	1.1	2.2	3.3	3.3	4.4	5.5	11.0	7.7	3.3	3.3	3.3	4.4	9.9	13.2	19.8	0.0	100.
9	5.5	2.2	2.2	1.1	4.4	4.4	8.8	11.0	5.5	2.2	2.2	3.3	5.5	9.9	13.2	18.7	0.0	100.
10	6.6	2.2	0.0	3.3	3.3	3.3	7.7	8.8	7.7	8.8	0.0	2.2	5.5	8.8	17.6	14.3	0.0	100.
11	7.8	2.2	0.0	1.1	1.1	4.4	10.0	3.3	11.1	6.7	2.2	2.2	4.4	11.1	13.3	18.9	0.0	100.
12	11.1	1.1	1.1	1.1	2.2	5.6	5.6	5.6	11.1	5.6	5.6	1.1	4.4	8.9	20.0	10.0	0.0	100.
13	8.9	3.3	1.1	1.1	2.2	4.4	4.4	7.8	10.0	10.0	1.1	5.6	3.3	12.2	14.4	10.0	0.0	100.
14	11.0	1.1	2.2	0.0	2.2	3.3	6.6	5.5	9.9	9.9	2.2	4.4	2.2	8.8	24.2	6.6	0.0	100.
15	8.8	2.2	1.1	1.1	1.1	6.6	3.3	8.8	8.8	12.1	1.1	1.1	4.4	7.7	23.1	8.8	0.0	100.
16	6.6	2.2	3.3	0.0	2.2	4.4	5.5	11.0	8.8	8.8	1.1	3.3	3.3	6.6	20.9	12.1	0.0	100.
17	11.0	2.2	2.2	0.0	1.1	6.6	5.5	9.9	9.9	9.9	1.1	1.1	1.1	7.7	20.9	9.9	0.0	100.
18	6.7	7.8	1.1	1.1	1.1	5.6	11.1	7.8	8.9	6.7	0.0	3.3	2.2	6.7	15.6	14.4	0.0	100.
19	7.7	5.5	6.6	1.1	1.1	4.4	6.6	7.7	13.2	5.5	2.2	1.1	5.5	1.1	18.7	12.1	0.0	100.
20	9.9	7.7	0.0	1.1	1.1	7.7	6.6	7.7	11.0	6.6	0.0	5.5	0.0	3.3	16.5	15.4	0.0	100.
21	14.3	5.5	1.1	1.1	2.2	5.5	8.8	7.7	12.1	2.2	0.0	5.5	0.0	6.6	17.6	9.9	0.0	100.
22	9.9	4.4	2.2	1.1	2.2	4.4	12.1	4.4	11.0	5.5	3.3	0.0	2.2	6.6	17.6	13.2	0.0	100.
23	9.9	4.4	3.3	2.2	1.1	5.5	12.1	4.4	9.9	5.5	3.3	2.2	1.1	9.9	13.2	12.1	0.0	100.
24	8.8	1.1	3.3	0.0	1.1	7.7	7.7	9.9	9.9	8.8	2.2	2.2	4.4	5.5	18.7	8.8	0.0	100.
ALL	8.3	3.1	1.8	1.5	2.7	5.4	7.1	8.1	9.1	6.1	2.2	3.5	3.4	8.3	17.8	11.6	0.0	100.

NUMBER OF OBS = 2180

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	0.0	4.8	4.8	9.5	0.0	0.0	9.5	4.8	14.3	14.3	0.0	0.0	9.5	4.8	9.5	14.3	0.0	100.
2	0.0	9.5	0.0	14.3	0.0	0.0	9.5	4.8	14.3	9.5	0.0	0.0	4.8	0.0	4.8	28.6	0.0	100.
3	4.8	4.8	4.8	9.5	0.0	9.5	9.5	4.8	9.5	9.5	0.0	0.0	4.8	4.8	9.5	14.3	0.0	100.
4	4.8	4.8	9.5	0.0	4.8	4.8	4.8	4.8	14.3	4.8	0.0	4.8	0.0	4.8	14.3	19.0	0.0	100.
5	14.3	14.3	9.5	0.0	4.8	0.0	4.8	9.5	9.5	9.5	0.0	0.0	0.0	4.8	4.8	14.3	0.0	100.
6	9.5	4.8	9.5	0.0	4.8	4.8	4.8	4.8	19.0	4.8	0.0	0.0	0.0	4.8	4.8	23.8	0.0	100.
7	9.5	9.5	9.5	0.0	4.8	0.0	0.0	14.3	9.5	4.8	0.0	4.8	0.0	4.8	9.5	19.0	0.0	100.
8	5.0	5.0	10.0	5.0	10.0	5.0	0.0	5.0	10.0	10.0	0.0	0.0	5.0	5.0	10.0	15.0	0.0	100.
9	5.0	0.0	0.0	10.0	10.0	5.0	10.0	0.0	15.0	10.0	0.0	5.0	0.0	5.0	10.0	15.0	0.0	100.
10	5.0	5.0	0.0	10.0	5.0	10.0	10.0	0.0	20.0	5.0	0.0	5.0	5.0	0.0	15.0	5.0	0.0	100.
11	5.0	5.0	0.0	5.0	15.0	5.0	5.0	5.0	20.0	5.0	0.0	0.0	5.0	5.0	10.0	10.0	0.0	100.
12	0.0	0.0	10.0	5.0	0.0	10.0	0.0	15.0	20.0	5.0	0.0	0.0	5.0	10.0	10.0	10.0	0.0	100.
13	0.0	0.0	5.0	5.0	5.0	0.0	15.0	10.0	15.0	5.0	5.0	0.0	5.0	5.0	15.0	10.0	0.0	100.
14	10.0	5.0	0.0	15.0	0.0	5.0	10.0	0.0	15.0	10.0	0.0	0.0	5.0	10.0	10.0	5.0	0.0	100.
15	9.5	4.8	0.0	9.5	4.8	4.8	4.8	9.5	9.5	14.3	0.0	0.0	0.0	14.3	9.5	4.8	0.0	100.
16	4.8	4.8	0.0	9.5	4.8	4.8	0.0	4.8	19.0	19.0	0.0	0.0	4.8	14.3	4.8	4.8	0.0	100.
17	9.5	0.0	4.8	4.8	4.8	4.8	0.0	9.5	14.3	19.0	0.0	0.0	0.0	9.5	14.3	4.8	0.0	100.
18	9.5	0.0	0.0	14.3	0.0	4.8	4.8	9.5	14.3	14.3	0.0	0.0	0.0	14.3	4.8	9.5	0.0	100.
19	9.5	4.8	4.8	0.0	14.3	4.8	4.8	9.5	14.3	9.5	0.0	0.0	4.8	0.0	9.5	9.5	0.0	100.
20	10.0	5.0	5.0	5.0	15.0	5.0	0.0	15.0	5.0	10.0	0.0	5.0	0.0	0.0	5.0	15.0	0.0	100.
21	10.0	0.0	5.0	5.0	5.0	5.0	5.0	15.0	15.0	10.0	0.0	0.0	5.0	0.0	10.0	10.0	0.0	100.
22	15.0	5.0	0.0	10.0	0.0	10.0	0.0	5.0	20.0	5.0	0.0	0.0	5.0	10.0	5.0	10.0	0.0	100.
23	10.0	10.0	0.0	10.0	0.0	0.0	10.0	5.0	10.0	10.0	5.0	5.0	5.0	0.0	5.0	15.0	0.0	100.
24	5.0	5.0	10.0	5.0	0.0	0.0	10.0	10.0	15.0	5.0	5.0	0.0	5.0	5.0	5.0	15.0	0.0	100.
ALL	6.9	4.7	4.3	6.7	4.7	4.3	5.5	7.3	14.2	9.3	0.6	1.2	3.3	5.7	8.7	12.6	0.0	100.

NUMBER OF OBS = 492

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1996

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

MAY

10 Meter Wind Direction values were invalid for the month of May; therefore, the hourly wind roses are not available.

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	5.9	5.9	0.0	0.0	5.9	5.9	11.8	0.0	11.8	5.9	5.9	0.0	0.0	0.0	11.8	29.4	0.0	100.
2	11.8	5.9	5.9	0.0	0.0	5.9	11.8	0.0	5.9	11.8	5.9	0.0	0.0	0.0	11.8	23.5	0.0	100.
3	11.8	0.0	5.9	11.8	0.0	0.0	5.9	5.9	5.9	11.8	5.9	0.0	0.0	0.0	11.8	17.6	0.0	100.
4	17.6	0.0	0.0	0.0	5.9	11.8	0.0	5.9	11.8	0.0	0.0	5.9	0.0	5.9	17.6	17.6	0.0	100.
5	5.9	11.8	5.9	5.9	0.0	5.9	5.9	5.9	17.6	0.0	0.0	0.0	0.0	5.9	23.5	5.9	0.0	100.
6	11.8	0.0	5.9	0.0	0.0	5.9	0.0	11.8	23.5	0.0	11.8	0.0	0.0	11.8	5.9	5.9	5.9	100.
7	0.0	5.9	0.0	0.0	0.0	5.9	23.5	11.8	17.6	0.0	5.9	0.0	0.0	5.9	5.9	17.6	0.0	100.
8	0.0	11.8	11.8	0.0	5.9	11.8	5.9	11.8	11.8	5.9	5.9	0.0	0.0	0.0	11.8	5.9	0.0	100.
9	5.9	11.8	0.0	0.0	5.9	0.0	0.0	23.5	17.6	0.0	5.9	0.0	5.9	0.0	5.9	17.6	0.0	100.
10	5.9	5.9	0.0	5.9	5.9	11.8	5.9	5.9	5.9	11.8	0.0	0.0	0.0	5.9	5.9	23.5	0.0	100.
11	11.8	17.6	0.0	11.8	0.0	11.8	11.8	5.9	5.9	5.9	0.0	5.9	0.0	0.0	5.9	5.9	0.0	100.
12	11.8	17.6	0.0	0.0	5.9	11.8	5.9	5.9	17.6	0.0	5.9	0.0	0.0	0.0	5.9	11.8	0.0	100.
13	5.9	11.8	5.9	0.0	5.9	5.9	5.9	0.0	23.5	5.9	0.0	0.0	0.0	0.0	5.9	23.5	0.0	100.
14	11.8	5.9	17.6	0.0	0.0	5.9	11.8	0.0	23.5	5.9	0.0	0.0	0.0	0.0	5.9	11.8	0.0	100.
15	23.5	11.8	5.9	0.0	0.0	0.0	23.5	0.0	11.8	11.8	0.0	0.0	0.0	0.0	11.8	0.0	0.0	100.
16	5.9	17.6	0.0	0.0	5.9	0.0	17.6	5.9	11.8	5.9	5.9	0.0	0.0	0.0	5.9	17.6	0.0	100.
17	0.0	17.6	5.9	5.9	5.9	0.0	11.8	11.8	0.0	11.8	0.0	0.0	0.0	5.9	0.0	23.5	0.0	100.
18	0.0	12.5	6.3	12.5	0.0	0.0	31.3	0.0	0.0	6.3	6.3	0.0	6.3	6.3	0.0	12.5	0.0	100.
19	6.3	6.3	6.3	18.8	0.0	6.3	25.0	6.3	6.3	0.0	6.3	0.0	0.0	6.3	0.0	6.3	0.0	100.
20	5.9	5.9	0.0	23.5	5.9	11.8	17.6	5.9	0.0	11.8	0.0	0.0	0.0	0.0	5.9	5.9	0.0	100.
21	5.9	0.0	0.0	5.9	17.6	11.8	17.6	0.0	0.0	11.8	0.0	0.0	5.9	0.0	17.8	11.8	0.0	100.
22	17.6	11.8	0.0	5.9	0.0	11.8	11.8	11.8	0.0	5.9	0.0	0.0	0.0	0.0	41.8	11.8	0.0	100.
23	17.6	0.0	0.0	5.9	0.0	5.9	11.8	0.0	11.8	0.0	11.8	0.0	5.9	0.0	17.6	11.8	0.0	100.
24	23.5	5.9	0.0	0.0	5.9	0.0	17.6	5.9	0.0	0.0	5.9	5.9	0.0	0.0	17.6	11.8	0.0	100.
ALL	9.4	8.4	3.4	4.7	3.4	6.2	12.1	5.9	10.1	5.4	3.7	0.7	1.2	2.2	9.1	13.8	0.2	100.

NUMBER OF OBS = 406

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	2.6	5.3	2.6	5.3	2.6	2.6	10.5	2.6	13.2	10.5	2.6	0.0	5.3	2.6	10.5	21.1	0.0	100.
2	5.3	7.9	2.6	7.9	0.0	2.6	10.5	2.6	10.5	10.5	2.6	0.0	2.6	0.0	7.9	26.3	0.0	100.
3	7.9	2.6	5.3	10.5	0.0	5.3	7.9	5.3	7.9	10.5	2.6	0.0	5.3	2.6	10.5	15.8	0.0	100.
4	10.5	2.6	5.3	0.0	5.3	7.9	2.6	5.3	13.2	2.6	0.0	5.3	0.0	5.3	15.8	18.4	0.0	100.
5	10.5	13.2	7.9	2.6	2.6	2.6	5.3	7.9	13.2	5.3	0.0	0.0	0.0	5.3	13.2	10.5	0.0	100.
6	10.5	2.6	7.9	0.0	2.6	5.3	2.6	7.9	21.1	2.6	5.3	0.0	0.0	7.9	5.3	15.8	2.6	100.
7	5.3	7.9	5.3	0.0	2.6	2.6	10.5	13.2	13.2	2.6	2.6	2.6	0.0	5.3	7.9	18.4	0.0	100.
8	2.7	8.1	10.8	2.7	8.1	8.1	2.7	8.1	10.8	8.1	2.7	0.0	2.7	2.7	10.8	10.8	0.0	100.
9	5.4	5.4	0.0	5.4	8.1	2.7	5.4	10.8	16.2	5.4	2.7	2.7	2.7	2.7	8.1	16.2	0.0	100.
10	5.4	5.4	0.0	8.1	5.4	10.8	8.1	2.7	13.5	8.1	0.0	2.7	2.7	2.7	10.8	13.5	0.0	100.
11	8.1	10.8	0.0	8.1	8.1	8.1	8.1	5.4	13.5	5.4	0.0	2.7	2.7	2.7	8.1	8.1	0.0	100.
12	5.4	8.1	5.4	2.7	2.7	10.8	2.7	10.8	18.9	2.7	2.7	0.0	2.7	5.4	8.1	10.8	0.0	100.
13	2.7	5.4	5.4	2.7	5.4	2.7	10.8	5.4	18.9	5.4	2.7	0.0	2.7	2.7	10.8	16.2	0.0	100.
14	10.8	5.4	8.1	8.1	0.0	5.4	10.8	0.0	18.9	8.1	0.0	0.0	2.7	5.4	8.1	8.1	0.0	100.
15	15.8	7.9	2.6	5.3	2.6	2.6	13.2	5.3	10.5	13.2	0.0	0.0	0.0	7.9	10.5	2.6	0.0	100.
16	5.3	10.5	0.0	5.3	5.3	2.6	7.9	5.3	15.8	13.2	2.6	0.0	2.6	7.9	5.3	10.5	0.0	100.
17	5.3	7.9	5.3	5.3	5.3	2.6	5.3	10.5	7.9	15.8	0.0	0.0	0.0	7.9	7.9	13.2	0.0	100.
18	5.4	5.4	2.7	13.5	0.0	2.7	16.2	5.4	8.1	10.8	2.7	0.0	2.7	10.8	2.7	10.8	0.0	100.
19	8.1	5.4	5.4	8.1	8.1	5.4	13.5	8.1	10.8	5.4	2.7	0.0	2.7	2.7	5.4	8.1	0.0	100.
20	8.1	5.4	2.7	13.5	10.8	8.1	8.1	10.8	2.7	10.8	0.0	2.7	0.0	0.0	5.4	10.8	0.0	100.
21	8.1	0.0	2.7	5.4	10.8	8.1	10.8	8.1	8.1	10.8	0.0	0.0	5.4	0.0	10.8	10.8	0.0	100.
22	16.2	8.1	0.0	8.1	0.0	10.8	5.4	8.1	10.8	5.4	0.0	0.0	2.7	5.4	8.1	10.8	0.0	100.
23	13.5	5.4	0.0	8.1	0.0	2.7	10.8	2.7	10.8	5.4	8.1	2.7	5.4	0.0	10.8	13.5	0.0	100.
24	13.5	5.4	5.4	2.7	2.7	0.0	13.5	8.1	8.1	2.7	5.4	2.7	2.7	2.7	10.8	13.5	0.0	100.
ALL	8.0	6.3	3.9	5.8	4.1	5.1	8.5	6.7	12.4	7.6	2.0	1.0	2.3	4.1	8.9	13.1	0.1	100.

NUMBER OF OBS = 898

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	7.0	3.1	2.3	1.6	1.6	7.8	6.2	4.7	12.4	8.5	3.9	4.7	3.1	3.9	19.4	10.1	0.0	100.
2	7.8	5.4	3.9	3.1	3.9	4.7	6.2	7.0	7.8	8.5	2.3	2.3	3.1	6.2	16.3	12.4	0.0	100.
3	7.8	3.1	3.1	5.4	3.9	4.7	6.2	7.8	7.0	4.7	3.9	3.1	3.9	7.8	16.3	11.6	0.0	100.
4	7.8	2.3	3.1	1.6	3.9	6.2	5.4	7.0	9.3	1.6	3.9	5.4	3.1	10.1	16.3	13.2	0.0	100.
5	7.8	5.4	2.3	3.1	3.9	3.1	10.1	8.5	7.8	4.7	0.8	6.2	5.4	7.0	14.7	9.3	0.0	100.
6	7.8	3.1	2.3	1.6	6.2	5.4	4.7	10.9	10.1	1.6	3.1	3.1	3.1	11.6	14.7	10.1	0.8	100.
7	7.0	3.1	1.6	3.1	3.1	5.4	6.2	11.6	9.3	4.7	1.6	3.9	2.3	9.3	13.2	14.7	0.0	100.
8	3.9	3.1	4.7	3.1	4.7	5.5	4.7	10.2	8.6	4.7	3.1	2.3	3.9	7.8	12.5	17.2	0.0	100.
9	5.5	3.1	1.6	2.3	5.5	3.9	7.8	10.9	8.6	3.1	2.3	3.1	4.7	7.8	11.7	18.0	0.0	100.
10	6.3	3.1	0.0	4.7	3.9	5.5	7.8	7.0	9.4	8.6	0.0	2.3	4.7	7.0	15.6	14.1	0.0	100.
11	7.9	4.7	0.0	3.1	3.1	5.5	9.4	5.9	11.8	6.3	1.6	2.4	3.9	8.7	11.8	15.7	0.0	100.
12	9.4	3.1	2.4	1.6	2.4	7.1	4.7	7.1	13.4	4.7	4.7	0.8	3.9	7.9	16.5	10.2	0.0	100.
13	7.1	3.9	2.4	1.6	3.1	3.9	6.3	7.1	12.6	8.7	1.6	3.9	3.1	9.4	13.4	11.8	0.0	100.
14	10.9	2.3	3.9	2.3	1.6	3.9	7.8	3.9	12.5	9.4	1.6	3.1	2.3	7.8	19.5	7.0	0.0	100.
15	10.9	3.9	1.6	2.3	1.6	5.4	6.2	7.8	9.3	12.4	0.8	0.8	3.1	7.8	19.4	7.0	0.0	100.
16	6.2	4.7	2.3	1.6	3.1	3.9	6.2	9.3	10.9	10.1	1.6	2.3	3.1	7.0	16.3	11.6	0.0	100.
17	9.3	3.9	3.1	1.6	2.3	5.4	5.4	10.1	9.3	11.6	0.8	0.8	0.8	7.8	17.1	10.9	0.0	100.
18	6.3	7.1	1.6	4.7	0.8	4.7	12.6	7.1	8.7	7.9	0.8	2.4	2.4	7.9	11.8	13.4	0.0	100.
19	7.8	5.5	6.3	3.1	3.1	4.7	8.6	7.8	12.5	5.5	2.3	0.8	4.7	1.6	14.8	10.9	0.0	100.
20	9.4	7.0	0.8	4.7	3.9	7.8	7.0	8.6	8.6	7.8	0.0	4.7	0.0	2.3	13.3	14.1	0.0	100.
21	12.5	3.9	1.6	2.3	4.7	6.3	9.4	7.8	10.9	4.7	0.0	3.9	1.6	4.7	15.6	10.2	0.0	100.
22	11.7	5.5	1.6	3.1	1.6	6.3	10.2	5.5	10.9	5.5	2.3	0.0	2.3	6.3	14.8	12.5	0.0	100.
23	10.9	4.7	2.3	3.9	0.8	4.7	11.7	3.9	16.2	5.5	4.7	2.3	2.3	7.0	12.5	12.5	0.0	100.
24	10.2	2.3	3.9	0.8	1.6	5.5	9.4	9.4	9.4	7.0	3.1	2.3	3.9	4.7	16.4	10.2	0.0	100.
ALL	8.3	4.1	2.4	2.8	3.1	5.3	7.5	7.7	10.0	6.6	2.1	2.8	3.1	7.1	15.2	12.0	0.0	100.

NUMBER OF OBS = 3078

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 1996

PROGRAM: WINPER
VERSION: 2P

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	0.0	3.2	0.0	3.2	3.2	3.2	16.1	25.8	6.5	6.5	0.0	3.2	3.2	19.4	3.2	0.0	100.
2	6.5	3.2	0.0	3.2	3.2	0.0	12.9	16.1	16.1	9.7	6.5	6.5	3.2	9.7	0.0	3.2	0.0	100.
3	9.7	3.2	3.2	0.0	6.5	6.5	0.0	3.2	19.4	6.5	6.5	6.5	3.2	9.7	12.9	0.0	3.2	100.
4	3.2	6.5	3.2	3.2	9.7	0.0	3.2	9.7	16.1	16.1	3.2	0.0	6.5	0.0	9.7	9.7	0.0	100.
5	6.5	0.0	3.2	0.0	3.2	6.5	6.5	9.7	16.1	3.2	6.5	3.2	6.5	6.5	16.1	6.5	0.0	100.
6	9.7	0.0	3.2	3.2	6.5	0.0	12.9	3.2	19.4	6.5	9.7	6.5	0.0	0.0	12.9	6.5	0.0	100.
7	6.5	6.5	0.0	0.0	3.2	12.9	3.2	12.9	25.8	3.2	3.2	0.0	6.5	3.2	3.2	9.7	0.0	100.
8	16.1	0.0	3.2	3.2	3.2	12.9	9.7	16.1	12.9	6.5	0.0	0.0	3.2	6.5	0.0	6.5	0.0	100.
9	12.9	3.2	3.2	0.0	0.0	12.9	9.7	6.5	22.6	6.5	6.5	3.2	0.0	3.2	3.2	6.5	0.0	100.
10	12.9	3.2	3.2	3.2	0.0	6.5	16.1	6.5	12.9	9.7	6.5	3.2	0.0	6.5	0.0	9.7	0.0	100.
11	19.4	6.5	0.0	0.0	6.5	6.5	6.5	19.4	0.0	9.7	9.7	0.0	3.2	0.0	3.2	9.7	0.0	100.
12	12.9	0.0	3.2	3.2	3.2	6.5	22.6	6.5	0.0	12.9	3.2	3.2	0.0	3.2	0.0	19.4	0.0	100.
13	9.7	6.5	0.0	3.2	6.5	0.0	19.4	6.5	3.2	9.7	6.5	0.0	0.0	3.2	3.2	22.6	0.0	100.
14	12.9	6.5	3.2	0.0	9.7	12.9	6.5	9.7	6.5	3.2	0.0	9.7	0.0	3.2	0.0	16.1	0.0	100.
15	9.7	3.2	6.5	3.2	6.5	3.2	16.1	9.7	3.2	6.5	0.0	0.0	9.7	3.2	3.2	16.1	0.0	100.
16	12.9	3.2	0.0	9.7	3.2	6.5	12.9	9.7	6.5	3.2	0.0	0.0	6.5	6.5	3.2	16.1	0.0	100.
17	0.0	16.1	9.7	3.2	0.0	3.2	9.7	12.9	6.5	3.2	0.0	3.2	6.5	3.2	6.5	16.1	0.0	100.
18	3.2	6.5	6.5	3.2	9.7	3.2	12.9	12.9	0.0	6.5	0.0	3.2	0.0	0.0	6.5	25.8	0.0	100.
19	3.2	6.5	9.7	6.5	3.2	3.2	16.1	9.7	3.2	0.0	6.5	0.0	0.0	3.2	9.7	19.4	0.0	100.
20	6.5	3.2	3.2	3.2	3.2	6.5	6.5	12.9	6.5	0.0	3.2	0.0	3.2	3.2	19.4	16.1	3.2	100.
21	9.7	3.2	3.2	0.0	3.2	0.0	9.7	6.5	6.5	3.2	3.2	3.2	3.2	3.2	9.7	32.3	0.0	100.
22	3.2	6.5	3.2	0.0	0.0	6.5	3.2	12.9	6.5	0.0	3.2	12.9	3.2	3.2	16.1	19.4	0.0	100.
23	6.5	6.5	0.0	0.0	0.0	6.5	6.5	12.9	9.7	16.1	3.2	3.2	0.0	0.0	6.5	22.6	0.0	100.
24	16.1	3.2	6.5	0.0	0.0	6.5	0.0	19.4	19.4	6.5	0.0	3.2	3.2	3.2	9.7	3.2	0.0	100.
ALL	8.9	4.3	3.4	2.2	3.9	5.5	9.4	10.9	11.0	6.5	3.9	3.0	3.0	3.6	7.3	13.2	0.3	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 1996

PROGRAM: WINPER
VERSION: 2P

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	3.7	7.4	7.4	0.0	3.7	3.7	18.5	14.8	18.5	3.7	0.0	7.4	0.0	7.4	0.0	3.7	0.0	100.
2	0.0	14.8	7.4	0.0	0.0	3.7	29.6	7.4	14.8	7.4	0.0	0.0	0.0	0.0	3.7	7.4	3.7	100.
3	3.7	18.5	3.7	0.0	3.7	3.7	14.8	14.8	11.1	14.8	3.7	0.0	0.0	0.0	0.0	3.7	3.7	100.
4	7.1	7.1	7.1	0.0	7.1	7.1	17.9	3.6	14.3	3.6	10.7	3.6	0.0	0.0	0.0	10.7	0.0	100.
5	10.7	7.1	3.6	10.7	3.6	3.6	10.7	7.1	14.3	0.0	7.1	0.0	7.1	7.1	3.6	3.6	0.0	100.
6	3.6	7.1	7.1	0.0	10.7	10.7	3.6	21.4	7.1	3.6	0.0	7.1	0.0	3.6	3.6	7.1	3.6	100.
7	3.6	3.6	10.7	0.0	7.1	14.3	10.7	14.3	21.4	3.6	7.1	0.0	0.0	0.0	0.0	3.6	0.0	100.
8	0.0	7.1	0.0	10.7	7.1	7.1	25.0	10.7	14.3	10.7	0.0	0.0	3.6	0.0	0.0	3.6	0.0	100.
9	3.6	3.6	3.6	0.0	10.7	7.1	17.9	17.9	14.3	7.1	7.1	0.0	0.0	0.0	3.6	3.6	0.0	100.
10	7.1	3.6	10.7	0.0	7.1	10.7	14.3	7.1	17.9	7.1	0.0	0.0	0.0	0.0	10.7	3.6	0.0	100.
11	0.0	3.6	0.0	3.6	14.3	14.3	17.9	7.1	7.1	7.1	3.6	0.0	3.6	0.0	7.1	10.7	0.0	100.
12	7.1	3.6	3.6	7.1	3.6	10.7	28.6	3.6	17.9	7.1	0.0	0.0	3.6	0.0	0.0	3.6	0.0	100.
13	11.1	3.7	3.7	3.7	0.0	18.5	25.9	7.4	11.1	0.0	3.7	3.7	0.0	0.0	0.0	7.4	0.0	100.
14	3.7	7.4	0.0	7.4	3.7	11.1	22.2	7.4	18.5	3.7	3.7	0.0	0.0	0.0	0.0	11.1	0.0	100.
15	3.7	7.4	11.1	0.0	3.7	3.7	29.6	14.8	7.4	11.1	3.7	0.0	0.0	0.0	0.0	3.7	0.0	100.
16	3.7	11.1	0.0	7.4	0.0	14.8	18.5	14.8	14.8	3.7	3.7	0.0	3.7	0.0	0.0	3.7	0.0	100.
17	0.0	11.1	3.7	14.8	0.0	0.0	33.3	18.5	3.7	3.7	3.7	0.0	0.0	0.0	3.7	3.7	0.0	100.
18	7.4	11.1	0.0	7.4	3.7	3.7	37.0	14.8	7.4	0.0	0.0	0.0	3.7	0.0	0.0	3.7	0.0	100.
19	3.7	0.0	11.1	0.0	14.8	7.4	22.2	11.1	7.4	0.0	3.7	7.4	3.7	0.0	0.0	7.4	0.0	100.
20	7.4	0.0	3.7	14.8	3.7	11.1	14.8	7.4	7.4	7.4	0.0	0.0	0.0	3.7	7.4	7.4	3.7	100.
21	7.4	3.7	11.1	11.1	0.0	7.4	18.5	7.4	3.7	3.7	0.0	0.0	0.0	0.0	7.4	18.5	0.0	100.
22	3.7	0.0	3.7	11.1	3.7	7.4	14.8	18.5	3.7	3.7	3.7	0.0	0.0	0.0	11.1	14.8	0.0	100.
23	7.4	3.7	3.7	7.4	3.7	11.1	11.1	7.4	18.5	3.7	0.0	3.7	0.0	0.0	3.7	11.1	3.7	100.
24	11.1	3.7	7.4	0.0	3.7	14.8	11.1	14.8	7.4	3.7	3.7	0.0	3.7	3.7	7.4	3.7	0.0	100.
ALL	5.0	6.2	5.2	4.9	5.0	8.7	19.5	11.4	11.9	5.0	2.9	1.4	1.4	1.1	3.0	6.7	0.8	100.

NUMBER OF OBS = 657

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 1996

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

SEPTEMBR

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	4.8	4.8	4.8	0.0	4.8	9.5	14.3	4.8	19.0	9.5	0.0	4.8	0.0	0.0	0.0	9.5	9.5	100.
2	9.5	0.0	0.0	4.8	9.5	4.8	9.5	33.3	0.0	4.8	4.8	0.0	4.8	4.8	0.0	9.5	0.0	100.
3	9.5	0.0	0.0	14.3	9.5	4.8	14.3	9.5	4.8	9.5	4.8	0.0	4.8	0.0	4.8	9.5	0.0	100.
4	9.5	0.0	14.3	0.0	0.0	9.5	0.0	4.8	19.0	4.8	9.5	4.8	4.8	0.0	4.8	14.3	0.0	100.
5	5.0	10.0	0.0	0.0	10.0	5.0	5.0	15.0	10.0	5.0	5.0	0.0	0.0	10.0	15.0	5.0	0.0	100.
6	10.0	5.0	0.0	0.0	5.0	5.0	10.0	25.0	10.0	0.0	5.0	0.0	5.0	5.0	0.0	15.0	0.0	100.
7	15.0	5.0	5.0	5.0	0.0	10.0	10.0	20.0	10.0	0.0	5.0	0.0	0.0	0.0	5.0	10.0	0.0	100.
8	5.0	0.0	10.0	10.0	5.0	10.0	20.0	15.0	5.0	0.0	10.0	0.0	0.0	0.0	5.0	5.0	0.0	100.
9	5.0	10.0	0.0	10.0	5.0	10.0	20.0	10.0	20.0	5.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	100.
10	5.0	0.0	15.0	10.0	0.0	15.0	20.0	5.0	20.0	0.0	5.0	0.0	0.0	0.0	5.0	0.0	0.0	100.
11	0.0	5.0	0.0	25.0	0.0	10.0	20.0	10.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0	100.
12	0.0	5.0	5.0	10.0	0.0	10.0	30.0	10.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0	100.
13	10.0	5.0	0.0	10.0	0.0	10.0	20.0	15.0	15.0	5.0	0.0	0.0	0.0	0.0	5.0	5.0	0.0	100.
14	10.0	5.0	0.0	10.0	0.0	10.0	25.0	5.0	20.0	0.0	5.0	0.0	0.0	0.0	0.0	10.0	0.0	100.
15	15.0	5.0	5.0	5.0	5.0	15.0	10.0	20.0	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
16	10.0	5.0	0.0	10.0	5.0	5.0	15.0	30.0	10.0	0.0	5.0	0.0	0.0	0.0	0.0	5.0	0.0	100.
17	10.0	5.0	15.0	0.0	0.0	5.0	25.0	25.0	5.0	0.0	5.0	0.0	0.0	0.0	0.0	5.0	0.0	100.
18	10.0	5.0	15.0	0.0	15.0	0.0	20.0	25.0	0.0	0.0	5.0	0.0	0.0	0.0	5.0	0.0	0.0	100.
19	15.0	10.0	5.0	5.0	15.0	5.0	10.0	25.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	100.
20	10.0	10.0	5.0	5.0	5.0	5.0	5.0	15.0	5.0	10.0	0.0	5.0	5.0	0.0	0.0	15.0	0.0	100.
21	5.0	5.0	5.0	0.0	5.0	10.0	0.0	25.0	0.0	10.0	0.0	0.0	0.0	5.0	0.0	30.0	0.0	100.
22	15.0	10.0	0.0	0.0	5.0	10.0	15.0	0.0	20.0	0.0	5.0	0.0	0.0	0.0	0.0	15.0	5.0	100.
23	5.0	0.0	10.0	5.0	5.0	5.0	10.0	15.0	10.0	5.0	0.0	5.0	0.0	5.0	0.0	15.0	5.0	100.
24	5.0	10.0	0.0	0.0	5.0	5.0	20.0	10.0	15.0	0.0	0.0	5.0	0.0	0.0	10.0	10.0	5.0	100.
ALL	8.3	5.0	4.8	5.8	4.8	7.9	14.5	15.5	10.7	3.3	3.3	1.2	1.0	1.2	2.5	9.1	1.2	100.

NUMBER OF OBS = 484

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 1996

PROGRAM: WINPER
VERSION: 2P

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	3.8	3.8	5.1	0.0	3.8	5.1	11.4	12.7	21.5	6.3	2.5	3.8	1.3	3.8	7.6	5.1	2.5	100.
2	5.1	6.3	2.5	2.5	3.8	2.5	17.7	17.7	11.4	7.6	3.8	2.5	2.5	5.1	1.3	6.3	1.3	100.
3	7.6	7.6	2.5	3.8	6.3	5.1	8.9	8.9	12.7	10.1	5.1	2.5	2.5	3.8	6.3	3.8	2.5	100.
4	6.3	5.0	7.5	1.2	6.3	5.0	7.5	6.3	16.2	8.7	7.5	2.5	3.7	0.0	5.0	11.2	0.0	100.
5	7.6	5.1	2.5	3.8	5.1	5.1	7.6	10.1	13.9	2.5	6.3	1.3	5.1	7.6	11.4	5.1	0.0	100.
6	7.6	3.8	3.8	1.3	7.6	5.1	8.9	15.2	12.7	3.8	5.1	5.1	1.3	2.5	6.3	8.9	1.3	100.
7	7.6	5.1	5.1	1.3	3.8	12.7	7.6	15.2	20.3	2.5	5.1	0.0	2.5	1.3	2.5	7.6	0.0	100.
8	7.6	2.5	3.8	7.6	5.1	10.1	17.7	13.9	11.4	6.3	2.5	0.0	2.5	2.5	1.3	5.1	0.0	100.
9	7.6	5.1	2.5	2.5	5.1	10.1	15.2	11.4	19.0	6.3	5.1	2.5	0.0	1.3	2.5	3.8	0.0	100.
10	8.9	2.5	8.9	3.8	2.5	10.1	16.5	6.3	16.5	6.3	3.8	1.3	0.0	2.5	5.1	5.1	0.0	100.
11	7.6	5.1	0.0	7.6	7.6	10.1	13.9	12.7	6.3	6.3	5.1	0.0	2.5	0.0	3.8	11.4	0.0	100.
12	7.6	2.5	3.8	6.3	2.5	8.9	26.6	6.3	8.9	8.9	1.3	1.3	1.3	1.3	0.0	12.7	0.0	100.
13	10.3	5.1	1.3	5.1	2.6	9.0	21.8	9.0	9.0	5.1	3.8	1.3	0.0	1.3	2.6	12.8	0.0	100.
14	9.0	6.4	1.3	5.1	5.1	11.5	16.7	7.7	14.1	2.6	2.6	3.8	0.0	1.3	0.0	12.8	0.0	100.
15	9.0	5.1	7.7	2.6	5.1	6.4	19.2	14.1	7.7	7.7	1.3	0.0	3.8	1.3	1.3	7.7	0.0	100.
16	9.0	6.4	0.0	9.0	2.6	9.0	15.4	16.7	10.3	2.6	2.6	0.0	3.8	2.6	1.3	9.0	0.0	100.
17	2.6	11.5	9.0	6.4	0.0	2.6	21.8	17.9	5.1	2.6	2.6	1.3	2.6	1.3	3.8	9.0	0.0	100.
18	6.4	7.7	6.4	3.8	9.0	2.6	23.1	16.7	2.6	2.6	1.3	1.3	1.3	0.0	3.8	11.5	0.0	100.
19	6.4	5.1	9.0	3.8	10.3	5.1	16.7	14.1	3.8	0.0	5.1	2.6	1.3	1.3	3.8	10.3	1.3	100.
20	7.7	3.8	3.8	7.7	3.8	7.7	9.0	11.5	6.4	5.1	1.3	1.3	2.6	2.6	10.3	12.8	2.6	100.
21	7.7	3.8	6.4	3.8	2.6	5.1	10.3	11.5	3.8	5.1	1.3	1.3	1.3	2.6	6.4	26.9	0.0	100.
22	6.4	5.1	2.6	3.8	2.6	7.7	10.3	11.5	9.0	1.3	3.8	5.1	1.3	1.3	10.3	16.7	1.3	100.
23	6.4	3.8	3.8	3.8	2.6	7.7	9.0	11.5	12.8	9.0	1.3	3.8	0.0	1.3	3.8	16.7	2.6	100.
24	11.5	5.1	5.1	0.0	2.6	9.0	9.0	15.4	14.1	3.8	1.3	2.6	2.6	2.6	9.0	5.1	1.3	100.
ALL	7.4	5.1	4.4	4.0	4.5	7.2	14.2	12.3	11.2	5.1	3.4	2.0	1.9	2.1	4.6	9.9	0.7	100.

NUMBER OF OBS = 1885

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0	16.7	33.3	0.0	16.7	0.0	100.
2	0.0	0.0	0.0	0.0	0.0	0.0	16.7	16.7	0.0	0.0	16.7	0.0	16.7	33.3	0.0	0.0	0.0	100.
3	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0	16.7	0.0	0.0	50.0	0.0	0.0	100.
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.3	0.0	100.
5	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	16.7	0.0	0.0	16.7	0.0	0.0	16.7	16.7	0.0	100.
6	16.7	0.0	0.0	0.0	0.0	0.0	16.7	33.3	0.0	0.0	0.0	0.0	16.7	0.0	16.7	0.0	0.0	100.
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	16.7	0.0	0.0	0.0	0.0	16.7	16.7	16.7	0.0	100.
8	16.7	0.0	0.0	0.0	0.0	0.0	0.0	16.7	33.3	0.0	0.0	0.0	16.7	0.0	16.7	0.0	0.0	100.
9	16.7	0.0	0.0	0.0	0.0	0.0	0.0	33.3	16.7	0.0	0.0	0.0	0.0	16.7	16.7	0.0	0.0	100.
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	0.0	20.0	40.0	0.0	100.
11	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	100.
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	40.0	0.0	100.
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	40.0	20.0	0.0	100.
14	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	16.7	16.7	0.0	0.0	0.0	0.0	16.7	33.3	0.0	100.
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	16.7	16.7	0.0	0.0	0.0	0.0	16.7	33.3	0.0	100.
16	14.3	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	28.6	0.0	0.0	0.0	0.0	14.3	14.3	0.0	100.
17	0.0	14.3	0.0	0.0	0.0	0.0	0.0	28.6	0.0	14.3	14.3	0.0	0.0	0.0	14.3	14.3	0.0	100.
18	14.3	0.0	0.0	0.0	0.0	0.0	14.3	14.3	0.0	14.3	14.3	0.0	0.0	14.3	14.3	0.0	0.0	100.
19	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.3	14.3	0.0	0.0	0.0	28.6	0.0	0.0	28.6	0.0	100.
20	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	14.3	0.0	14.3	0.0	14.3	14.3	14.3	14.3	0.0	100.
21	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.3	0.0	14.3	0.0	0.0	0.0	28.6	14.3	14.3	0.0	100.
22	0.0	0.0	0.0	0.0	0.0	0.0	14.3	14.3	0.0	0.0	0.0	14.3	14.3	14.3	14.3	14.3	0.0	100.
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	0.0	42.9	28.6	0.0	0.0	0.0	100.
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	14.3	14.3	14.3	28.6	0.0	0.0	0.0	100.
ALL	3.4	1.3	0.7	0.0	0.0	0.0	7.4	17.4	8.7	6.7	3.4	2.7	8.1	10.1	15.4	14.8	0.0	100.

NUMBER OF OBS = 149

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	0.0	0.0	6.7	10.0	0.0	13.3	10.0	6.7	3.3	0.0	3.3	3.3	6.7	3.3	23.3	3.3	100.
2	10.0	0.0	0.0	6.7	6.7	3.3	13.3	10.0	13.3	0.0	0.0	3.3	0.0	6.7	3.3	23.3	0.0	100.
3	10.0	6.7	0.0	6.7	6.7	0.0	10.0	13.3	13.3	3.3	0.0	3.3	0.0	6.7	3.3	16.7	0.0	100.
4	6.7	3.3	3.3	6.7	10.0	3.3	6.7	16.7	6.7	3.3	0.0	3.3	3.3	6.7	10.0	10.0	0.0	100.
5	6.7	3.3	0.0	0.0	16.7	3.3	3.3	13.3	20.0	0.0	0.0	0.0	3.3	10.0	10.0	10.0	0.0	100.
6	6.7	0.0	3.3	10.0	10.0	0.0	10.0	16.7	10.0	3.3	3.3	0.0	0.0	6.7	10.0	10.0	0.0	100.
7	10.0	0.0	6.7	3.3	13.3	0.0	3.3	23.3	6.7	0.0	3.3	0.0	3.3	6.7	6.7	13.3	0.0	100.
8	13.3	0.0	3.3	0.0	13.3	0.0	0.0	20.0	13.3	0.0	3.3	0.0	3.3	10.0	6.7	13.3	0.0	100.
9	10.3	3.4	0.0	3.4	3.4	10.3	0.0	13.8	20.7	0.0	0.0	0.0	3.4	6.9	6.9	17.2	0.0	100.
10	11.1	0.0	0.0	3.7	3.7	11.1	3.7	14.8	11.1	7.4	0.0	3.7	0.0	3.7	3.7	22.2	0.0	100.
11	7.4	0.0	0.0	3.7	3.7	14.8	0.0	18.5	7.4	7.4	0.0	3.7	3.7	0.0	7.4	22.2	0.0	100.
12	7.4	3.7	3.7	3.7	7.4	7.4	3.7	14.8	3.7	11.1	0.0	3.7	3.7	3.7	3.7	18.5	0.0	100.
13	18.5	0.0	0.0	3.7	3.7	7.4	7.4	11.1	14.8	3.7	0.0	0.0	3.7	3.7	7.4	14.8	0.0	100.
14	11.1	0.0	0.0	3.7	3.7	7.4	3.7	7.4	18.5	3.7	3.7	0.0	3.7	3.7	7.4	22.2	0.0	100.
15	14.3	0.0	0.0	3.6	3.6	7.1	7.1	3.6	17.9	3.6	3.6	0.0	7.1	0.0	10.7	17.9	0.0	100.
16	13.8	0.0	3.4	0.0	3.4	6.9	6.9	10.3	10.3	6.9	0.0	0.0	3.4	6.9	6.9	20.7	0.0	100.
17	10.0	0.0	3.3	0.0	6.7	3.3	6.7	16.7	10.0	3.3	0.0	3.3	0.0	3.3	6.7	26.7	0.0	100.
18	13.3	0.0	6.7	0.0	6.7	3.3	10.0	6.7	13.3	3.3	0.0	3.3	3.3	0.0	10.0	16.7	3.3	100.
19	16.7	6.7	3.3	3.3	3.3	0.0	13.3	10.0	13.3	6.7	0.0	0.0	0.0	0.0	6.7	13.3	3.3	100.
20	16.7	0.0	3.3	6.7	0.0	6.7	10.0	16.7	10.0	0.0	0.0	0.0	0.0	0.0	10.0	16.7	3.3	100.
21	13.3	3.3	3.3	3.3	6.7	3.3	10.0	10.0	20.0	0.0	0.0	0.0	0.0	3.3	6.7	13.3	3.3	100.
22	10.0	0.0	3.3	6.7	6.7	3.3	10.0	13.3	10.0	3.3	3.3	0.0	0.0	3.3	10.0	13.3	3.3	100.
23	16.7	3.3	0.0	6.7	3.3	6.7	10.0	10.0	6.7	3.3	3.3	0.0	0.0	6.7	10.0	10.0	3.3	100.
24	10.0	0.0	3.3	6.7	3.3	3.3	13.3	10.0	6.7	3.3	0.0	0.0	3.3	3.3	6.7	23.3	3.3	100.
ALL	11.3	1.4	2.1	4.1	6.6	4.6	7.4	13.0	11.8	3.3	1.0	1.3	2.1	4.6	7.3	17.0	1.1	100.

NUMBER OF OBS = 701

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	12.9	6.5	3.2	3.2	0.0	3.2	0.0	3.2	12.9	0.0	6.5	0.0	0.0	12.9	16.1	12.9	6.5	100.
2	16.1	6.5	0.0	3.2	0.0	6.5	6.5	6.5	9.7	3.2	0.0	0.0	0.0	12.9	19.4	6.5	3.2	100.
3	12.9	3.2	6.5	0.0	3.2	0.0	12.9	9.7	9.7	3.2	0.0	0.0	6.5	6.5	16.1	9.7	0.0	100.
4	12.9	6.5	0.0	6.5	0.0	0.0	9.7	9.7	9.7	6.5	0.0	0.0	9.7	3.2	16.1	9.7	0.0	100.
5	12.9	0.0	3.2	3.2	0.0	3.2	12.9	9.7	9.7	3.2	0.0	0.0	6.5	6.5	22.6	6.5	0.0	100.
6	19.4	0.0	3.2	6.5	0.0	0.0	12.9	3.2	6.5	6.5	3.2	0.0	3.2	6.5	25.8	3.2	0.0	100.
7	9.7	3.2	0.0	3.2	6.5	3.2	12.9	3.2	6.5	0.0	0.0	3.2	3.2	16.1	19.4	9.7	0.0	100.
8	12.9	3.2	0.0	3.2	6.5	0.0	16.1	12.9	0.0	0.0	0.0	0.0	3.2	6.5	25.8	6.5	3.2	100.
9	9.7	3.2	6.5	0.0	9.7	0.0	9.7	12.9	3.2	0.0	6.5	0.0	3.2	12.9	19.4	3.2	0.0	100.
10	16.1	0.0	0.0	0.0	9.7	3.2	3.2	19.4	3.2	3.2	0.0	0.0	6.5	12.9	19.4	3.2	0.0	100.
11	12.9	3.2	0.0	0.0	3.2	9.7	3.2	3.2	16.1	3.2	3.2	3.2	6.5	9.7	19.4	3.2	0.0	100.
12	6.5	3.2	0.0	0.0	3.2	6.5	12.9	3.2	12.9	3.2	3.2	6.5	3.2	6.5	12.9	9.7	6.5	100.
13	12.9	3.2	0.0	0.0	3.2	6.5	6.5	9.7	3.2	9.7	6.5	9.7	0.0	12.9	9.7	3.2	3.2	100.
14	12.9	3.2	6.5	0.0	3.2	3.2	16.1	6.5	0.0	6.5	3.2	3.2	3.2	22.6	9.7	0.0	0.0	100.
15	12.9	3.2	3.2	3.2	3.2	3.2	6.5	9.7	9.7	3.2	3.2	3.2	0.0	19.4	16.1	0.0	0.0	100.
16	16.1	0.0	0.0	3.2	3.2	0.0	3.2	16.1	3.2	6.5	3.2	0.0	3.2	19.4	9.7	12.9	0.0	100.
17	6.5	3.2	0.0	3.2	0.0	0.0	16.1	12.9	0.0	6.5	0.0	0.0	3.2	16.1	12.9	19.4	0.0	100.
18	12.9	6.5	0.0	3.2	0.0	3.2	16.1	3.2	0.0	3.2	0.0	0.0	12.9	3.2	16.1	19.4	0.0	100.
19	25.8	3.2	0.0	0.0	0.0	0.0	6.5	9.7	6.5	0.0	3.2	0.0	6.5	3.2	16.1	16.1	3.2	100.
20	19.4	9.7	0.0	0.0	0.0	0.0	0.0	9.7	6.5	3.2	3.2	6.5	3.2	6.5	9.7	19.4	3.2	100.
21	12.9	9.7	3.2	0.0	0.0	0.0	0.0	9.7	12.9	0.0	0.0	6.5	6.5	6.5	12.9	16.1	3.2	100.
22	22.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	22.6	3.2	0.0	3.2	9.7	6.5	9.7	19.4	0.0	100.
23	16.1	6.5	3.2	0.0	0.0	0.0	6.5	6.5	12.9	0.0	0.0	3.2	9.7	6.5	19.4	9.7	0.0	100.
24	12.9	3.2	0.0	3.2	3.2	0.0	0.0	6.5	12.9	3.2	0.0	3.2	0.0	19.4	12.9	19.4	0.0	100.
ALL	14.1	3.9	1.6	1.9	2.4	2.2	7.9	8.2	7.9	3.2	1.9	2.2	4.6	10.6	16.1	9.9	1.3	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	9.0	3.0	1.5	4.5	4.5	1.5	6.0	9.0	9.0	1.5	3.0	1.5	3.0	11.9	9.0	17.9	4.5	100.
2	11.9	3.0	0.0	4.5	3.0	4.5	10.4	9.0	10.4	1.5	1.5	1.5	1.5	11.9	10.4	13.4	1.5	100.
3	10.4	4.5	3.0	3.0	4.5	0.0	13.4	10.4	10.4	3.0	0.0	3.0	3.0	6.0	13.4	11.9	0.0	100.
4	9.0	4.5	1.5	6.0	4.5	1.5	7.5	14.9	7.5	4.5	0.0	1.5	6.0	4.5	14.9	11.9	0.0	100.
5	9.0	1.5	1.5	1.5	7.5	3.0	10.4	10.4	14.9	1.5	0.0	1.5	4.5	7.5	16.4	9.0	0.0	100.
6	13.4	0.0	3.0	7.5	4.5	0.0	11.9	11.9	7.5	4.5	3.0	0.0	3.0	6.0	17.9	6.0	0.0	100.
7	9.0	1.5	3.0	3.0	9.0	1.5	7.5	14.9	7.5	0.0	1.5	1.5	3.0	11.9	13.4	11.9	0.0	100.
8	13.4	1.5	1.5	1.5	9.0	0.0	7.5	16.4	9.0	0.0	1.5	0.0	4.5	7.5	16.4	9.0	1.5	100.
9	10.6	3.0	3.0	1.5	6.1	4.5	4.5	15.2	12.1	0.0	3.0	0.0	3.0	10.6	13.6	9.1	0.0	100.
10	12.7	0.0	0.0	1.6	6.3	6.3	3.2	17.5	7.9	4.8	0.0	1.6	3.2	7.9	12.7	14.3	0.0	100.
11	9.5	3.2	0.0	1.6	3.2	11.1	1.6	9.5	12.7	6.3	1.6	3.2	4.8	4.8	14.3	12.7	0.0	100.
12	6.3	3.2	1.6	1.6	4.8	6.3	7.9	7.9	9.5	7.9	1.6	4.8	3.2	4.8	9.5	15.9	3.2	100.
13	14.3	1.6	0.0	1.6	3.2	6.3	6.3	9.5	9.5	7.9	3.2	4.8	1.6	7.9	11.1	9.5	1.6	100.
14	10.9	1.6	4.7	1.6	3.1	4.7	9.4	6.3	9.4	6.3	3.1	1.6	3.1	12.5	9.4	12.5	0.0	100.
15	12.3	1.5	1.5	3.1	3.1	4.6	6.2	7.7	13.8	4.6	3.1	1.5	3.1	9.2	13.8	10.8	0.0	100.
16	14.9	0.0	1.5	1.5	3.0	3.0	4.5	14.9	6.0	9.0	1.5	0.0	3.0	11.9	9.0	16.4	0.0	100.
17	7.4	2.9	1.5	1.5	2.9	1.5	10.3	16.2	4.4	5.9	1.5	1.5	1.5	8.8	16.3	22.1	0.0	100.
18	13.2	2.9	2.9	1.5	2.9	2.9	13.2	5.9	5.9	4.4	1.5	1.5	7.4	2.9	13.2	16.2	1.5	100.
19	19.1	4.4	1.5	1.5	1.5	0.0	10.3	10.3	10.3	2.9	1.5	0.0	5.9	1.5	10.3	16.2	2.9	100.
20	16.2	4.4	1.5	2.9	0.0	2.9	5.9	11.8	8.8	1.5	2.9	2.9	2.9	4.4	10.3	17.6	2.9	100.
21	11.8	5.9	2.9	1.5	2.9	1.5	5.9	10.3	14.7	1.5	0.0	2.9	2.9	7.4	10.3	14.7	2.9	100.
22	14.7	1.5	1.5	2.9	2.9	1.5	5.9	7.4	14.7	2.9	1.5	2.9	5.9	5.9	10.3	16.2	1.5	100.
23	14.7	4.4	1.5	2.9	1.5	2.9	7.4	10.3	8.8	1.5	1.5	1.5	8.8	8.8	13.2	8.8	1.5	100.
24	10.3	1.5	1.5	4.4	2.9	1.5	5.9	10.3	8.8	2.9	1.5	2.9	2.9	13.2	8.8	19.1	1.5	100.
ALL	11.9	2.6	1.8	2.7	4.0	3.0	7.7	11.2	9.7	3.6	1.6	1.8	3.8	7.9	12.2	13.5	1.1	100.

NUMBER OF OBS = 1594

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	6.2	3.4	3.4	2.1	4.1	3.4	8.9	11.0	15.8	4.1	2.7	2.7	2.1	7.5	8.2	11.0	3.4	100.
2	8.2	4.8	1.4	3.4	3.4	3.4	14.4	13.7	11.0	4.8	2.7	2.1	2.1	8.2	5.5	9.6	1.4	100.
3	8.9	6.2	2.7	3.4	5.5	2.7	11.0	9.6	11.6	6.8	2.7	2.7	2.7	4.8	9.6	7.5	1.4	100
4	7.5	4.8	4.8	3.4	5.4	3.4	7.5	10.2	12.2	6.8	4.1	2.0	4.8	2.0	9.5	11.6	0.0	100.
5	8.2	3.4	2.1	2.7	6.2	4.1	8.9	10.3	14.4	2.1	3.4	1.4	4.8	7.5	13.7	6.8	0.0	100.
6	10.3	2.1	3.4	4.1	6.2	2.7	10.3	13.7	10.3	4.1	4.1	2.7	2.1	4.1	11.6	7.5	0.7	100.
7	8.2	3.4	4.1	2.1	6.2	7.5	7.5	15.1	14.4	1.4	3.4	0.7	2.7	6.2	7.5	9.6	0.0	100.
8	10.3	2.1	2.7	4.8	6.8	5.5	13.0	15.1	10.3	3.4	2.1	0.0	3.4	4.8	8.2	6.8	0.7	100.
9	9.0	4.1	2.8	2.1	5.5	7.6	10.3	13.1	15.9	3.4	4.1	1.4	1.4	5.5	7.6	6.2	0.0	100.
10	10.6	1.4	4.9	2.8	4.2	8.5	10.6	11.3	12.7	5.6	2.1	1.4	1.4	4.9	8.5	9.2	0.0	100.
11	8.5	4.2	0.0	4.9	5.6	10.6	8.5	11.3	9.2	6.3	3.5	1.4	3.5	2.1	8.5	12.0	0.0	100.
12	7.0	2.8	2.8	4.2	3.5	7.7	18.3	7.0	9.2	8.5	1.4	2.8	2.1	2.8	4.2	14.1	1.4	100.
13	12.1	3.5	0.7	3.5	2.8	7.8	14.9	9.2	9.2	6.4	3.5	2.8	0.7	4.3	6.4	11.3	0.7	100.
14	9.9	4.2	2.8	3.5	4.2	8.5	13.4	7.0	12.0	4.2	2.8	2.8	1.4	6.3	4.2	12.7	0.0	100.
15	10.5	3.5	4.9	2.8	4.2	5.6	13.3	11.2	10.5	6.3	2.1	0.7	3.5	4.9	7.0	9.1	0.0	100.
16	11.7	3.4	0.7	5.5	2.8	6.2	10.3	15.9	8.3	5.5	2.1	0.0	3.4	6.9	4.8	12.4	0.0	100.
17	4.8	7.5	5.5	4.1	1.4	2.1	16.4	17.1	4.8	4.1	2.1	1.4	2.1	4.8	6.8	15.1	0.0	100.
18	9.6	5.5	4.8	2.7	6.2	2.7	18.5	11.6	4.1	3.4	1.4	1.4	4.1	1.4	8.2	13.7	0.7	100.
19	12.3	4.8	5.5	2.7	6.2	2.7	13.7	12.3	6.8	1.4	3.4	1.4	3.4	1.4	6.8	13.0	2.1	100.
20	11.6	4.1	2.7	5.5	2.1	5.5	7.5	11.6	7.5	3.4	2.1	2.1	2.7	3.4	10.3	15.1	2.7	100.
21	9.6	4.8	4.8	2.7	2.7	3.4	8.2	11.0	8.9	3.4	0.7	2.1	2.1	4.8	8.2	21.2	1.4	100.
22	10.3	3.4	2.1	3.4	2.7	4.8	8.2	9.6	11.6	2.1	2.7	4.1	3.4	3.4	10.3	16.4	1.4	100.
23	10.3	4.1	2.7	3.4	2.1	5.5	8.2	11.0	11.0	5.5	1.4	2.7	4.1	4.8	8.2	13.0	2.1	100.
24	11.0	3.4	3.4	2.1	2.7	5.5	7.5	13.0	11.6	3.4	1.4	2.7	2.7	7.5	8.9	11.6	1.4	100.
ALL	9.4	4.0	3.2	3.4	4.3	5.3	11.2	11.8	10.5	4.4	2.6	1.9	2.8	4.8	8.0	11.5	0.9	100.

NUMBER OF OBS = 3479

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	6.5	3.3	2.9	1.8	2.9	5.5	7.6	8.0	14.2	6.2	3.3	3.6	2.5	5.8	13.5	10.5	1.8	100.
2	7.6	5.1	2.5	3.3	3.6	4.0	10.5	10.5	9.5	6.5	2.5	2.2	2.5	7.3	10.5	10.9	0.7	100.
3	8.4	4.7	2.9	4.4	4.7	3.6	8.7	8.7	9.5	5.8	3.3	2.9	3.3	6.2	12.7	9.5	0.7	100.
4	7.6	3.6	4.8	2.5	4.7	4.7	6.5	8.7	10.9	4.3	4.0	3.6	4.0	5.8	12.7	12.3	0.0	100.
5	8.0	4.4	2.2	2.9	5.1	3.6	9.5	9.5	11.3	3.3	2.2	3.6	5.1	7.3	14.2	8.0	0.0	100.
6	9.1	2.5	2.9	2.9	6.2	4.0	7.6	12.4	10.2	2.9	3.6	2.9	2.5	7.6	13.1	8.7	0.7	100.
7	7.6	3.3	2.9	2.5	4.7	6.5	6.9	13.5	12.0	2.9	2.5	2.2	2.5	7.6	10.2	12.0	0.0	100.
8	7.3	2.6	3.6	4.0	5.8	5.5	9.1	12.8	9.5	4.0	2.6	1.1	3.6	6.2	10.2	11.7	0.4	100.
9	7.3	3.7	2.2	2.2	5.5	5.9	9.2	12.1	12.5	3.3	3.3	2.2	2.9	6.6	9.5	11.7	0.0	100.
10	8.5	2.2	2.6	3.7	4.1	7.0	9.3	9.3	11.1	7.0	1.1	1.9	3.0	5.9	11.9	11.5	0.0	100.
11	8.2	4.5	0.0	4.1	4.5	8.2	8.9	7.8	10.4	6.3	2.6	1.9	3.7	5.2	10.0	13.8	0.0	100.
12	8.2	3.0	2.6	3.0	3.0	7.4	11.9	7.1	11.2	6.7	3.0	1.9	3.0	5.2	10.0	12.3	0.7	100.
13	9.7	3.7	1.5	2.6	3.0	6.0	10.8	8.2	10.8	7.5	2.6	3.4	1.9	6.7	9.7	11.6	0.4	100.
14	10.4	3.3	3.3	3.0	3.0	6.3	10.7	5.6	12.2	6.7	2.2	3.0	1.9	7.0	11.5	10.0	0.0	100.
15	10.7	3.7	3.3	2.6	2.9	5.5	9.9	9.6	9.9	9.2	1.5	0.7	3.3	6.3	12.9	8.1	0.0	100.
16	9.1	4.0	1.5	3.6	2.9	5.1	8.4	12.8	9.5	7.7	1.8	1.1	3.3	6.9	10.2	12.0	0.0	100.
17	6.9	5.8	4.4	2.9	1.8	3.6	11.3	13.8	6.9	7.6	1.5	1.1	1.5	6.2	11.6	13.1	0.0	100.
18	8.1	6.2	3.3	3.7	3.7	3.7	15.8	9.5	6.2	5.5	1.1	1.8	3.3	4.4	9.9	13.6	0.4	100.
19	10.2	5.1	5.8	2.9	4.7	3.6	11.3	10.2	9.5	3.3	2.9	1.1	4.0	1.5	10.6	12.0	1.1	100.
20	10.6	5.5	1.8	5.1	2.9	6.6	7.3	10.2	8.0	5.5	1.1	3.3	1.5	2.9	11.7	14.6	1.5	100.
21	10.9	4.4	3.3	2.6	3.6	4.7	8.8	9.5	9.9	4.0	0.4	2.9	1.8	4.7	11.7	16.1	0.7	100.
22	10.9	4.4	1.8	3.3	2.2	5.5	9.1	7.7	11.3	3.6	2.6	2.2	2.9	4.7	12.4	14.6	0.7	100.
23	10.6	4.4	2.6	3.6	1.5	5.1	9.9	7.7	10.6	5.5	2.9	2.6	3.3	5.8	10.2	12.8	1.1	100.
24	10.5	2.9	3.6	1.5	2.2	5.5	8.4	11.3	10.5	5.1	2.2	2.5	3.3	6.2	12.4	11.3	0.7	100.
ALL	8.9	4.0	2.8	3.1	3.7	5.3	9.5	9.9	10.3	5.4	2.4	2.3	2.9	5.8	11.4	11.8	0.5	100.

NUMBER OF OBS = 6558

Wind Direction Frequencies

100-Meter Level

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1996

PROGRAM: WINPER
VERSION: 2P

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	6.5	0.0	0.0	0.0	3.2	12.9	0.0	12.9	3.2	0.0	0.0	3.2	19.4	12.9	6.5	0.0	100.
2	22.6	3.2	0.0	0.0	0.0	3.2	9.7	6.5	6.5	6.5	0.0	0.0	0.0	22.6	12.9	6.5	0.0	100.
3	25.8	3.2	0.0	0.0	0.0	6.5	9.7	3.2	9.7	3.2	0.0	0.0	0.0	19.4	12.9	6.5	0.0	100.
4	19.4	3.2	0.0	0.0	0.0	6.5	12.9	0.0	6.5	6.5	0.0	0.0	3.2	9.7	19.4	12.9	0.0	100.
5	16.1	3.2	0.0	0.0	3.2	6.5	9.7	0.0	6.5	6.5	0.0	0.0	3.2	16.1	9.7	19.4	0.0	100.
6	16.1	3.2	0.0	3.2	0.0	9.7	0.0	6.5	6.5	6.5	0.0	0.0	3.2	16.1	12.9	16.1	0.0	100.
7	12.9	6.5	3.2	0.0	3.2	3.2	3.2	6.5	3.2	6.5	3.2	0.0	9.7	6.5	12.9	19.4	0.0	100.
8	12.9	3.2	3.2	0.0	3.2	3.2	6.5	9.7	0.0	6.5	0.0	6.5	0.0	12.9	9.7	22.6	0.0	100.
9	16.1	3.2	3.2	0.0	0.0	9.7	0.0	6.5	6.5	6.5	0.0	3.2	6.5	6.5	12.9	19.4	0.0	100.
10	19.4	3.2	0.0	3.2	0.0	6.5	3.2	6.5	3.2	6.5	3.2	6.5	0.0	6.5	16.1	16.1	0.0	100.
11	19.4	0.0	0.0	0.0	0.0	6.5	6.5	3.2	6.5	6.5	6.5	0.0	3.2	6.5	16.1	19.4	0.0	100.
12	19.4	0.0	3.2	0.0	0.0	6.5	6.5	3.2	6.5	6.5	6.5	0.0	3.2	9.7	16.1	12.9	0.0	100.
13	19.4	0.0	0.0	0.0	0.0	3.2	9.7	6.5	6.5	6.5	9.7	6.5	0.0	3.2	19.4	9.7	0.0	100.
14	19.4	3.2	0.0	0.0	0.0	3.2	9.7	6.5	9.7	6.5	6.5	3.2	3.2	6.5	16.1	6.5	0.0	100.
15	19.4	0.0	0.0	0.0	0.0	6.5	6.5	6.5	9.7	12.9	6.5	0.0	3.2	0.0	22.6	6.5	0.0	100.
16	16.1	3.2	0.0	0.0	0.0	0.0	9.7	19.4	3.2	9.7	3.2	3.2	0.0	6.5	12.9	12.9	0.0	100.
17	19.4	3.2	0.0	0.0	0.0	6.5	9.7	6.5	9.7	9.7	3.2	3.2	3.2	0.0	16.1	9.7	0.0	100.
18	16.1	3.2	0.0	0.0	0.0	9.7	3.2	9.7	12.9	9.7	3.2	3.2	0.0	0.0	16.1	12.9	0.0	100.
19	16.1	3.2	0.0	0.0	0.0	6.5	3.2	12.9	6.5	16.1	3.2	3.2	0.0	3.2	16.1	9.7	0.0	100.
20	19.4	3.2	0.0	0.0	0.0	6.5	6.5	9.7	9.7	9.7	3.2	0.0	6.5	3.2	12.9	9.7	0.0	100.
21	22.6	0.0	0.0	0.0	0.0	3.2	6.5	9.7	6.5	9.7	6.5	0.0	3.2	9.7	12.9	9.7	0.0	100.
22	16.1	6.5	0.0	0.0	0.0	6.5	3.2	9.7	6.5	9.7	3.2	3.2	6.5	6.5	12.9	9.7	0.0	100.
23	12.9	9.7	0.0	0.0	0.0	3.2	9.7	0.0	9.7	12.9	0.0	3.2	9.7	6.5	16.1	6.5	0.0	100.
24	16.1	6.5	0.0	0.0	0.0	3.2	9.7	0.0	12.9	3.2	6.5	3.2	6.5	9.7	16.1	6.5	0.0	100.
ALL	18.0	3.4	0.5	0.3	0.4	5.4	7.0	6.2	7.4	7.8	3.1	2.0	3.2	8.6	14.8	12.0	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1996

PROGRAM: WINPER
VERSION: 2P

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	0.0	0.0	3.4	3.4	0.0	3.4	6.9	0.0	6.9	10.3	13.8	10.3	6.9	3.4	20.7	10.3	0.0	100.
2	0.0	0.0	0.0	3.4	3.4	0.0	6.9	3.4	6.9	3.4	20.7	6.9	6.9	3.4	24.1	10.3	0.0	100.
3	0.0	0.0	0.0	3.4	3.4	0.0	6.9	0.0	3.4	13.8	13.8	10.3	0.0	6.9	24.1	13.8	0.0	100.
4	0.0	0.0	0.0	3.4	3.4	0.0	0.0	6.9	6.9	6.9	10.3	13.8	0.0	13.8	20.7	13.8	0.0	100.
5	3.4	0.0	0.0	0.0	3.4	3.4	3.4	3.4	6.9	6.9	6.9	10.3	3.4	10.3	27.6	10.3	0.0	100.
6	6.9	0.0	0.0	0.0	6.9	0.0	0.0	6.9	6.9	6.9	3.4	6.9	6.9	13.8	31.0	3.4	0.0	100.
7	6.9	0.0	0.0	0.0	3.4	0.0	3.4	3.4	6.9	6.9	10.3	3.4	10.3	10.3	24.1	10.3	0.0	100.
8	6.9	0.0	0.0	0.0	6.9	0.0	0.0	6.9	3.4	10.3	10.3	0.0	6.9	10.3	27.6	10.3	0.0	100.
9	6.9	0.0	0.0	0.0	3.4	3.4	0.0	6.9	6.9	6.9	6.9	3.4	6.9	6.9	24.1	17.2	0.0	100.
10	3.4	0.0	0.0	0.0	3.4	3.4	0.0	3.4	13.8	6.9	3.4	3.4	10.3	6.9	24.1	17.2	0.0	100.
11	3.6	3.6	0.0	0.0	3.6	3.6	0.0	3.6	17.9	7.1	0.0	3.6	3.6	7.1	28.6	14.3	0.0	100.
12	7.1	0.0	0.0	0.0	3.6	3.6	0.0	3.6	10.7	14.3	3.6	3.6	0.0	10.7	28.6	10.7	0.0	100.
13	7.1	3.6	0.0	3.6	0.0	3.6	0.0	3.6	10.7	10.7	7.1	0.0	3.6	17.9	17.9	10.7	0.0	100.
14	3.4	0.0	3.4	3.4	0.0	3.4	0.0	0.0	6.9	20.7	6.9	0.0	3.4	13.8	24.1	10.3	0.0	100.
15	3.4	0.0	3.4	3.4	0.0	3.4	0.0	0.0	3.4	24.1	6.9	0.0	3.4	13.8	20.7	13.8	0.0	100.
16	6.9	0.0	6.9	0.0	0.0	3.4	0.0	3.4	0.0	24.1	3.4	6.9	3.4	6.9	24.1	10.3	0.0	100.
17	10.3	0.0	3.4	0.0	0.0	0.0	3.4	3.4	10.3	17.2	6.9	3.4	0.0	10.3	20.7	10.3	0.0	100.
18	7.1	7.1	7.1	0.0	0.0	0.0	3.6	7.1	10.7	14.3	7.1	0.0	0.0	10.7	17.9	7.1	0.0	100.
19	10.3	0.0	6.9	6.9	3.4	0.0	0.0	10.3	6.9	17.2	6.9	0.0	3.4	6.9	17.2	3.4	0.0	100.
20	6.9	3.4	10.3	3.4	3.4	3.4	0.0	6.9	10.3	13.8	3.4	0.0	6.9	3.4	13.8	10.3	0.0	100.
21	6.9	0.0	3.4	10.3	3.4	3.4	0.0	3.4	6.9	20.7	0.0	6.9	0.0	3.4	17.2	13.8	0.0	100.
22	0.0	0.0	0.0	6.9	3.4	6.9	3.4	0.0	17.2	13.8	0.0	10.3	3.4	0.0	17.2	17.2	0.0	100.
23	0.0	0.0	3.4	3.4	3.4	3.4	6.9	0.0	10.3	17.2	3.4	10.3	3.4	0.0	13.8	20.7	0.0	100.
24	0.0	0.0	0.0	6.9	0.0	3.4	6.9	0.0	10.3	17.2	10.3	10.3	0.0	0.0	20.7	13.8	0.0	100.
ALL	4.5	0.7	2.2	2.6	2.6	2.3	2.2	3.6	8.4	13.0	6.9	5.2	3.9	7.9	22.1	11.8	0.0	100.

NUMBER OF OBS = 692

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1996

PROGRAM: WINPER
VERSION: 2P

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	16.1	3.2	0.0	0.0	0.0	12.9	3.2	12.9	9.7	6.5	0.0	0.0	0.0	6.5	6.5	22.6	0.0	100.
2	12.9	0.0	0.0	3.2	0.0	12.9	9.7	6.5	9.7	6.5	0.0	0.0	0.0	9.7	6.5	22.6	0.0	100.
3	12.9	0.0	0.0	3.2	0.0	12.9	9.7	6.5	9.7	0.0	6.5	0.0	3.2	6.5	12.9	16.1	0.0	100.
4	12.9	0.0	0.0	0.0	3.2	16.1	6.5	6.5	9.7	0.0	3.2	3.2	3.2	3.2	16.1	16.1	0.0	100.
5	6.5	3.2	0.0	0.0	6.5	6.5	12.9	6.5	9.7	0.0	0.0	6.5	3.2	6.5	19.4	12.9	0.0	100.
6	9.7	3.2	0.0	0.0	6.5	12.9	6.5	6.5	6.5	3.2	0.0	6.5	3.2	3.2	19.4	12.9	0.0	100.
7	9.7	3.2	0.0	0.0	0.0	22.6	3.2	3.2	9.7	3.2	0.0	3.2	3.2	9.7	12.9	16.1	0.0	100.
8	9.7	0.0	0.0	0.0	0.0	12.9	12.9	3.2	9.7	3.2	0.0	3.2	3.2	9.7	12.9	19.4	0.0	100.
9	9.7	6.5	0.0	0.0	3.2	3.2	16.1	3.2	9.7	3.2	3.2	0.0	3.2	9.7	6.5	22.6	0.0	100.
10	12.9	6.5	0.0	0.0	0.0	6.5	9.7	9.7	9.7	3.2	3.2	0.0	3.2	6.5	9.7	19.4	0.0	100.
11	12.9	3.2	0.0	0.0	0.0	6.5	6.5	9.7	12.9	0.0	3.2	6.5	0.0	6.5	9.7	22.6	0.0	100.
12	12.9	6.5	0.0	0.0	3.2	0.0	12.9	6.5	16.1	0.0	6.5	0.0	0.0	9.7	6.5	19.4	0.0	100.
13	12.9	9.7	0.0	0.0	3.2	0.0	9.7	9.7	12.9	6.5	3.2	0.0	0.0	6.5	12.9	12.9	0.0	100.
14	12.9	3.2	0.0	0.0	0.0	3.2	12.9	3.2	16.1	6.5	0.0	3.2	0.0	6.5	19.4	12.9	0.0	100.
15	9.7	6.5	0.0	0.0	0.0	6.5	6.5	9.7	16.1	3.2	0.0	0.0	0.0	9.7	19.4	12.9	0.0	100.
16	12.9	0.0	3.2	0.0	3.2	6.5	6.5	12.9	6.5	6.5	0.0	0.0	0.0	6.5	19.4	16.1	0.0	100.
17	12.9	3.2	3.2	0.0	0.0	9.7	3.2	12.9	6.5	6.5	0.0	0.0	0.0	3.2	22.6	16.1	0.0	100.
18	9.7	9.7	0.0	0.0	0.0	9.7	12.9	6.5	9.7	0.0	0.0	0.0	0.0	3.2	12.9	25.8	0.0	100.
19	9.7	12.9	0.0	0.0	0.0	9.7	12.9	6.5	9.7	0.0	0.0	0.0	0.0	3.2	9.7	25.8	0.0	100.
20	12.9	9.7	3.2	0.0	0.0	12.9	6.5	12.9	6.5	0.0	0.0	0.0	0.0	3.2	6.5	25.8	0.0	100.
21	16.1	6.5	0.0	3.2	0.0	9.7	12.9	9.7	6.5	0.0	0.0	0.0	0.0	3.2	9.7	22.6	0.0	100.
22	9.7	6.5	3.2	3.2	0.0	9.7	9.7	12.9	6.5	0.0	0.0	0.0	0.0	3.2	12.9	22.6	0.0	100.
23	12.9	9.7	3.2	3.2	3.2	6.5	6.5	16.1	6.5	0.0	0.0	0.0	0.0	6.5	6.5	19.4	0.0	100.
24	22.6	0.0	0.0	6.5	3.2	6.5	3.2	16.1	9.7	0.0	0.0	0.0	0.0	6.5	6.5	19.4	0.0	100.
ALL	12.2	4.7	0.7	0.9	1.5	9.0	8.9	8.7	9.8	2.4	1.2	1.3	1.1	6.2	12.4	19.0	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1996

PROGRAM: WINPER
VERSION: 2P

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	12.1	3.3	1.1	1.1	0.0	6.6	7.7	4.4	9.9	6.6	4.4	3.3	3.3	9.9	13.2	13.2	0.0	100.
2	12.1	1.1	0.0	2.2	1.1	5.5	8.8	5.5	7.7	5.5	6.6	2.2	2.2	12.1	14.3	13.2	0.0	100.
3	13.2	1.1	0.0	2.2	1.1	6.6	8.8	3.3	7.7	5.5	6.6	3.3	1.1	11.0	16.5	12.1	0.0	100.
4	11.0	1.1	0.0	1.1	2.2	7.7	6.6	4.4	7.7	4.4	4.4	5.5	2.2	8.8	18.7	14.3	0.0	100.
5	8.8	2.2	0.0	0.0	4.4	5.5	8.8	3.3	7.7	4.4	2.2	5.5	3.3	11.0	18.7	14.3	0.0	100.
6	11.0	2.2	0.0	1.1	4.4	7.7	2.2	6.6	6.6	5.5	1.1	4.4	4.4	11.0	20.9	11.0	0.0	100.
7	9.9	3.3	1.1	0.0	2.2	8.8	3.3	4.4	6.6	5.5	4.4	2.2	7.7	8.8	16.5	15.4	0.0	100.
8	9.9	1.1	1.1	0.0	3.3	5.5	6.6	6.6	4.4	6.6	3.3	3.3	3.3	11.0	16.5	17.6	0.0	100.
9	11.0	3.3	1.1	0.0	2.2	5.5	5.5	5.5	7.7	5.5	3.3	2.2	5.5	7.7	14.3	19.8	0.0	100.
10	12.1	3.3	0.0	1.1	1.1	5.5	4.4	6.6	8.8	5.5	3.3	3.3	4.4	6.6	16.5	17.6	0.0	100.
11	12.2	2.2	0.0	0.0	1.1	5.6	4.4	5.6	12.2	4.4	3.3	3.3	2.2	6.7	17.8	18.9	0.0	100.
12	13.3	2.2	1.1	0.0	2.2	3.3	6.7	4.4	11.1	6.7	5.6	1.1	1.1	10.0	16.7	14.4	0.0	100.
13	13.3	4.4	0.0	1.1	1.1	2.2	6.7	6.7	10.0	7.8	6.7	2.2	1.1	8.9	16.7	11.1	0.0	100.
14	12.1	2.2	1.1	1.1	0.0	3.3	7.7	3.3	11.0	11.0	4.4	2.2	2.2	8.8	19.8	9.9	0.0	100.
15	11.0	2.2	1.1	1.1	0.0	5.5	4.4	5.5	9.9	13.2	4.4	0.0	2.2	7.7	20.9	11.0	0.0	100.
16	12.1	1.1	3.3	0.0	1.1	3.3	5.5	12.1	3.3	13.2	2.2	3.3	1.1	6.6	18.7	13.2	0.0	100.
17	14.3	2.2	2.2	0.0	0.0	5.5	5.5	7.7	8.8	11.0	3.3	2.2	1.1	4.4	19.8	12.1	0.0	100.
18	11.1	6.7	2.2	0.0	0.0	6.7	6.7	7.8	11.1	7.8	3.3	1.1	0.0	4.4	15.6	15.6	0.0	100.
19	12.1	5.5	2.2	2.2	1.1	5.5	5.5	9.9	7.7	11.0	3.3	1.1	1.1	4.4	14.3	13.2	0.0	100.
20	13.2	5.5	4.4	1.1	1.1	7.7	4.4	9.9	8.8	7.7	2.2	0.0	4.4	3.3	11.0	15.4	0.0	100.
21	15.4	2.2	1.1	4.4	1.1	5.5	6.6	7.7	6.6	9.9	2.2	2.2	1.1	5.5	13.2	15.4	0.0	100.
22	8.8	4.4	1.1	3.3	1.1	7.7	5.5	7.7	9.9	7.7	1.1	4.4	3.3	3.3	14.3	16.5	0.0	100.
23	8.8	6.6	2.2	2.2	2.2	4.4	7.7	5.5	8.8	9.9	1.1	4.4	4.4	4.4	12.1	15.4	0.0	100.
24	13.2	2.2	0.0	4.4	1.1	4.4	6.6	5.5	11.0	6.6	5.5	4.4	2.2	5.5	14.3	13.2	0.0	100.
ALL	11.7	3.0	1.1	1.2	1.5	5.6	6.1	6.2	8.5	7.6	3.7	2.8	2.7	7.6	16.3	14.3	0.0	100.

NUMBER OF OBS = 2180

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	6.7	13.3	0.0	0.0	13.3	0.0	10.0	3.3	13.3	10.0	3.3	0.0	0.0	10.0	6.7	10.0	0.0	100.
2	6.7	13.3	0.0	0.0	10.0	3.3	10.0	3.3	13.3	10.0	0.0	0.0	0.0	10.0	10.0	10.0	0.0	100.
3	3.7	10.0	3.3	6.7	0.0	6.7	6.7	13.3	10.0	6.7	0.0	0.0	3.3	10.0	6.7	10.0	0.0	100.
4	10.0	6.7	6.7	6.7	3.3	10.0	3.3	10.0	10.0	6.7	0.0	0.0	3.3	10.0	6.7	6.7	0.0	100.
5	13.3	6.7	10.0	6.7	3.3	6.7	3.3	3.3	13.3	10.0	0.0	0.0	0.0	6.7	6.7	10.0	0.0	100.
6	13.3	6.7	3.3	6.7	3.3	10.0	0.0	6.7	13.3	10.0	0.0	0.0	3.3	6.7	3.3	13.3	0.0	100.
7	6.7	6.7	3.3	6.7	6.7	6.7	3.3	0.0	13.3	13.3	0.0	0.0	3.3	6.7	6.7	16.7	0.0	100.
8	10.3	0.0	6.9	6.9	3.4	10.3	3.4	0.0	10.3	6.9	3.4	0.0	10.3	3.4	10.3	13.8	0.0	100.
9	7.1	0.0	0.0	10.7	7.1	10.7	3.6	3.6	10.7	7.1	3.6	0.0	7.1	7.1	10.7	10.7	0.0	100.
10	7.4	3.7	0.0	11.1	0.0	7.4	14.8	0.0	18.5	3.7	0.0	7.4	3.7	3.7	11.1	7.4	0.0	100.
11	7.4	3.7	3.7	3.7	3.7	11.1	3.7	11.1	11.1	7.4	0.0	3.7	3.7	7.4	11.1	7.4	0.0	100.
12	7.4	0.0	11.1	0.0	7.4	3.7	0.0	14.8	18.5	3.7	3.7	0.0	3.7	11.1	7.4	7.4	0.0	100.
13	0.0	0.0	7.1	3.6	3.6	7.1	0.0	14.3	10.7	10.7	0.0	0.0	7.1	7.1	14.3	14.3	0.0	100.
14	7.1	0.0	7.1	3.6	7.1	0.0	14.3	0.0	14.3	7.1	3.6	0.0	0.0	14.3	10.7	10.7	0.0	100.
15	3.4	3.4	0.0	13.8	3.4	0.0	10.3	3.4	13.8	10.3	3.4	0.0	0.0	17.2	6.9	10.3	0.0	100.
16	3.3	3.3	0.0	10.0	6.7	0.0	6.7	6.7	13.3	13.3	0.0	3.3	3.3	13.3	6.7	10.0	0.0	100.
17	10.0	0.0	3.3	10.0	3.3	6.7	3.3	0.0	16.7	13.3	0.0	3.3	3.3	10.0	10.0	6.7	0.0	100.
18	13.3	3.3	0.0	6.7	6.7	6.7	3.3	3.3	16.7	10.0	0.0	0.0	3.3	13.3	6.7	6.7	0.0	100.
19	10.0	10.0	0.0	6.7	6.7	6.7	6.7	6.7	10.0	10.0	0.0	0.0	6.7	3.3	10.0	6.7	0.0	100.
20	6.7	10.0	3.3	6.7	3.3	10.0	6.7	3.3	13.3	10.0	0.0	0.0	6.7	3.3	6.7	10.0	0.0	100.
21	0.0	13.3	3.3	3.3	10.0	10.0	6.7	6.7	6.7	10.0	3.3	3.3	3.3	3.3	10.0	6.7	0.0	100.
22	6.7	10.0	0.0	6.7	3.3	13.3	3.3	6.7	13.3	6.7	0.0	6.7	0.0	13.3	3.3	6.7	0.0	100.
23	10.0	6.7	0.0	3.3	6.7	6.7	13.3	0.0	13.3	6.7	6.7	0.0	0.0	10.0	6.7	10.0	0.0	100.
24	6.7	10.0	0.0	0.0	10.0	6.7	10.0	3.3	13.3	6.7	3.3	0.0	0.0	13.3	6.7	10.0	0.0	100.
ALL	7.5	6.0	3.0	5.8	5.5	6.7	6.1	5.1	12.9	8.8	1.4	1.1	3.1	9.0	8.1	9.7	0.0	100.

NUMBER OF OBS = 703

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	16.1	0.0	12.9	9.7	6.5	12.9	12.9	9.7	6.5	0.0	6.5	0.0	0.0	3.2	0.0	3.2	0.0	100.
2	12.9	3.2	6.5	9.7	12.9	9.7	12.9	3.2	9.7	6.5	0.0	3.2	0.0	3.2	3.2	3.2	0.0	100.
3	6.5	12.9	3.2	9.7	12.9	6.5	12.9	3.2	9.7	6.5	0.0	0.0	0.0	6.5	3.2	6.5	0.0	100.
4	6.5	6.5	6.5	19.4	9.7	6.5	6.5	6.5	12.9	0.0	3.2	3.2	0.0	3.2	3.2	6.5	0.0	100.
5	6.5	6.5	9.7	12.9	3.2	3.2	16.1	6.5	9.7	6.5	0.0	0.0	0.0	6.5	3.2	9.7	0.0	100.
6	9.7	6.5	9.7	9.7	9.7	6.5	16.1	3.2	9.7	3.2	0.0	0.0	3.2	3.2	0.0	9.7	0.0	100.
7	9.7	6.5	9.7	9.7	3.2	6.5	16.1	9.7	6.5	3.2	0.0	0.0	0.0	3.2	3.2	12.9	0.0	100.
8	16.1	3.2	12.9	9.7	3.2	9.7	12.9	6.5	9.7	3.2	3.2	0.0	0.0	0.0	6.5	3.2	0.0	100.
9	12.9	3.2	9.7	16.1	6.5	3.2	12.9	0.0	19.4	3.2	0.0	0.0	0.0	0.0	3.2	9.7	0.0	100.
10	12.9	3.2	12.9	9.7	9.7	3.2	9.7	9.7	6.5	9.7	3.2	0.0	0.0	0.0	3.2	6.5	0.0	100.
11	16.1	9.7	9.7	3.2	12.9	6.5	3.2	12.9	9.7	6.5	0.0	3.2	0.0	0.0	3.2	3.2	0.0	100.
12	12.9	3.2	12.9	6.5	9.7	9.7	9.7	3.2	16.1	3.2	0.0	0.0	3.2	0.0	3.2	6.5	0.0	100.
13	9.7	3.2	16.1	6.5	6.5	9.7	9.7	9.7	9.7	6.5	0.0	0.0	0.0	0.0	3.2	9.7	0.0	100.
14	6.5	0.0	16.1	9.7	9.7	9.7	6.5	9.7	6.5	6.5	3.2	0.0	0.0	3.2	3.2	9.7	0.0	100.
15	3.2	0.0	9.7	19.4	9.7	3.2	9.7	6.5	9.7	6.5	0.0	3.2	0.0	0.0	6.5	12.9	0.0	100.
16	3.2	3.2	9.7	16.1	6.5	0.0	12.9	16.1	3.2	6.5	3.2	0.0	6.5	0.0	3.2	9.7	0.0	100.
17	6.5	0.0	12.9	6.5	12.9	0.0	16.1	9.7	9.7	3.2	3.2	0.0	3.2	0.0	3.2	12.9	0.0	100.
18	6.5	3.2	12.9	16.1	9.7	0.0	19.4	6.5	6.5	3.2	3.2	0.0	0.0	3.2	6.5	3.2	0.0	100.
19	0.0	6.5	9.7	9.7	12.9	6.5	19.4	9.7	3.2	6.5	0.0	0.0	3.2	0.0	0.0	12.9	0.0	100.
20	3.2	3.2	9.7	19.4	3.2	19.4	3.2	12.9	6.5	9.7	0.0	0.0	0.0	0.0	0.0	9.7	0.0	100.
21	12.9	3.2	6.5	12.9	3.2	19.4	12.9	12.9	3.2	9.7	0.0	0.0	0.0	0.0	0.0	3.2	0.0	100.
22	6.5	6.5	9.7	9.7	9.7	9.7	12.9	16.1	3.2	9.7	0.0	0.0	3.2	0.0	0.0	3.2	0.0	100.
23	12.9	6.5	9.7	9.7	12.9	6.5	12.9	16.1	3.2	3.2	0.0	0.0	0.0	3.2	3.2	0.0	0.0	100.
24	9.7	6.5	3.2	16.1	9.7	9.7	16.1	9.7	6.5	0.0	6.5	3.2	0.0	0.0	0.0	3.2	0.0	100.
ALL	9.1	4.4	10.1	11.6	8.6	7.4	12.2	8.7	8.2	5.1	1.5	0.7	0.9	1.6	2.7	7.1	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	0.0	0.0	6.7	0.0	0.0	16.7	20.0	10.0	6.7	6.7	0.0	3.3	3.3	3.3	6.7	16.7	0.0	100.
2	6.7	3.3	0.0	6.7	3.3	3.3	16.7	10.0	10.0	3.3	10.0	0.0	3.3	6.7	10.0	6.7	0.0	100.
3	10.0	3.3	3.3	6.7	3.3	3.3	6.7	10.0	16.7	3.3	3.3	3.3	6.7	0.0	13.3	6.7	0.0	100.
4	20.0	0.0	0.0	0.0	3.3	6.7	10.0	10.0	6.7	3.3	6.7	3.3	3.3	6.7	10.0	10.0	0.0	100.
5	10.0	3.3	3.3	0.0	3.3	10.0	10.0	6.7	10.0	6.7	3.3	0.0	0.0	6.7	20.0	6.7	0.0	100.
6	6.7	6.7	3.3	0.0	3.3	0.0	20.0	10.0	3.3	6.7	3.3	0.0	3.3	10.0	6.7	16.7	0.0	100.
7	6.7	6.7	0.0	0.0	3.3	0.0	16.7	16.7	10.0	6.7	3.3	0.0	3.3	3.3	10.0	13.3	0.0	100.
8	10.0	13.3	3.3	0.0	3.3	0.0	13.3	10.0	16.7	6.7	0.0	3.3	3.3	6.7	6.7	3.3	0.0	100.
9	16.7	3.3	3.3	3.3	3.3	0.0	0.0	26.7	13.3	3.3	3.3	0.0	6.7	0.0	10.0	6.7	0.0	100.
10	16.7	6.7	3.3	0.0	3.3	3.3	6.7	10.0	16.7	10.0	0.0	6.7	0.0	6.7	3.3	6.7	0.0	100.
11	16.7	10.0	3.3	0.0	6.7	3.3	3.3	20.0	10.0	6.7	3.3	0.0	6.7	0.0	6.7	3.3	0.0	100.
12	16.7	0.0	13.3	0.0	3.3	6.7	6.7	10.0	16.7	3.3	3.3	0.0	0.0	6.7	6.7	6.7	0.0	100.
13	20.0	6.7	0.0	6.7	3.3	3.3	6.7	6.7	20.0	3.3	3.3	3.3	0.0	3.3	3.3	10.0	0.0	100.
14	13.3	3.3	3.3	6.7	0.0	6.7	13.3	3.3	16.7	10.0	3.3	0.0	0.0	3.3	3.3	13.3	0.0	100.
15	13.3	10.0	3.3	3.3	0.0	0.0	23.3	0.0	13.3	10.0	3.3	0.0	0.0	3.3	6.7	10.0	0.0	100.
16	13.3	10.0	6.7	0.0	0.0	3.3	20.0	3.3	16.7	3.3	6.7	0.0	3.3	0.0	3.3	10.0	0.0	100.
17	6.7	3.3	13.3	3.3	0.0	6.7	16.7	6.7	6.7	6.7	0.0	0.0	3.3	6.7	3.3	16.7	0.0	100.
18	3.3	6.7	6.7	13.3	0.0	0.0	23.3	3.3	6.7	6.7	3.3	0.0	3.3	0.0	10.0	13.3	0.0	100.
19	3.3	3.3	3.3	16.7	3.3	3.3	16.7	10.0	10.0	0.0	3.3	3.3	0.0	3.3	10.0	10.0	0.0	100.
20	6.7	3.3	3.3	0.0	20.0	6.7	20.0	10.0	6.7	3.3	3.3	0.0	0.0	0.0	10.0	6.7	0.0	100.
21	13.3	3.3	3.3	0.0	10.0	10.0	23.3	13.3	10.0	0.0	0.0	0.0	0.0	3.3	3.3	6.7	0.0	100.
22	10.0	0.0	0.0	0.0	10.0	10.0	20.0	16.7	13.3	3.3	0.0	0.0	0.0	3.3	6.7	6.7	0.0	100.
23	13.3	0.0	0.0	0.0	6.7	10.0	23.3	13.3	6.7	6.7	3.3	0.0	0.0	3.3	6.7	6.7	0.0	100.
24	0.0	10.0	0.0	3.3	0.0	10.0	13.3	20.0	10.0	3.3	0.0	3.3	3.3	0.0	10.0	13.3	0.0	100.
ALL	10.6	4.9	3.6	2.9	3.9	5.1	14.6	10.7	11.4	5.1	2.9	1.2	2.2	3.6	7.8	9.4	0.0	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	7.7	4.4	6.6	3.3	6.6	9.9	14.3	7.7	8.8	5.5	3.3	1.1	1.1	5.5	4.4	9.9	0.0	100.
2	8.8	6.6	2.2	5.5	8.8	5.5	13.2	5.5	11.0	6.6	3.3	1.1	1.1	6.6	7.7	6.6	0.0	100.
3	7.7	8.8	3.3	7.7	5.5	5.5	8.8	8.8	12.1	5.5	1.1	1.1	3.3	5.5	7.7	7.7	0.0	100.
4	12.1	4.4	4.4	8.8	5.5	7.7	6.6	8.8	9.9	3.3	3.3	2.2	2.2	6.6	6.6	7.7	0.0	100.
5	9.9	5.5	7.7	6.6	3.3	6.6	9.9	5.5	11.0	7.7	1.1	0.0	0.0	6.6	9.9	8.8	0.0	100.
6	9.9	6.6	5.5	5.5	5.5	5.5	12.1	6.6	8.8	6.6	1.1	0.0	3.3	6.6	3.3	13.2	0.0	100.
7	7.7	6.6	4.4	5.5	4.4	4.4	12.1	8.8	9.9	7.7	1.1	0.0	2.2	4.4	6.6	14.3	0.0	100.
8	12.2	5.6	7.8	5.6	3.3	6.7	10.0	5.6	12.2	5.6	2.2	1.1	4.4	3.3	7.8	6.7	0.0	100.
9	12.4	2.2	4.5	10.1	5.6	4.5	5.6	10.1	14.6	4.5	2.2	0.0	4.5	2.2	7.9	9.0	0.0	100.
10	12.5	4.5	5.7	6.8	4.5	4.5	10.2	6.8	13.6	8.0	1.1	4.5	1.1	3.4	5.7	6.8	0.0	100.
11	13.6	8.0	5.7	2.3	8.0	6.8	3.4	14.8	10.2	6.8	1.1	2.3	3.4	2.3	6.8	4.5	0.0	100.
12	12.5	1.1	12.5	2.3	6.8	6.8	5.7	9.1	17.0	3.4	2.3	0.0	2.3	5.7	5.7	6.8	0.0	100.
13	10.1	3.4	7.9	5.6	4.5	6.7	5.6	10.1	13.5	6.7	1.1	1.1	2.2	3.4	6.7	11.2	0.0	100.
14	9.0	1.1	9.0	6.7	5.6	5.6	11.2	4.5	12.4	7.9	3.4	0.0	0.0	6.7	5.6	11.2	0.0	100.
15	6.7	4.4	4.4	12.2	4.4	1.1	14.4	3.3	12.2	8.9	2.2	1.1	0.0	6.7	6.7	11.1	0.0	100.
16	6.6	5.5	5.5	8.8	4.4	1.1	13.2	8.8	11.0	7.7	3.3	1.1	4.4	4.4	4.4	9.9	0.0	100.
17	7.7	1.1	9.9	6.6	5.5	4.4	12.1	5.5	11.0	7.7	1.1	1.1	3.3	5.5	5.5	12.1	0.0	100.
18	7.7	4.4	6.6	12.1	5.5	2.2	15.4	4.4	9.9	6.6	2.2	0.0	2.2	5.5	7.7	7.7	0.0	100.
19	4.4	6.6	4.4	11.0	7.7	5.5	14.3	8.8	7.7	5.5	1.1	1.1	3.3	2.2	6.6	9.9	0.0	100.
20	5.5	5.5	5.5	8.8	8.8	12.1	9.9	8.8	8.8	7.7	1.1	0.0	2.2	1.1	5.5	8.8	0.0	100.
21	8.8	6.6	4.4	5.5	7.7	13.2	14.3	11.0	6.6	6.6	1.1	1.1	1.1	2.2	4.4	5.5	0.0	100.
22	7.7	5.5	3.3	5.5	7.7	11.0	12.1	13.2	9.9	6.6	0.0	2.2	1.1	5.5	3.3	5.5	0.0	100.
23	12.1	4.4	3.3	4.4	8.8	7.7	16.5	9.9	7.7	5.5	3.3	0.0	0.0	5.5	5.5	5.5	0.0	100.
24	5.5	8.8	1.1	6.6	6.6	8.8	13.2	11.0	9.9	3.3	3.3	2.2	1.1	4.4	5.5	8.8	0.0	100.
ALL	9.1	5.1	5.6	6.8	6.0	6.4	11.0	8.2	10.8	6.3	1.9	1.0	2.1	4.7	6.1	8.7	0.0	100.

NUMBER OF OBS = 2167

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-JUN 1996

PROGRAM: WINPER
VERSION: 2P

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	9.9	3.8	3.8	2.2	3.3	8.2	11.0	6.0	9.3	6.0	3.8	2.2	2.2	7.7	8.8	11.5	0.0	100.
2	10.4	3.8	1.1	3.8	4.9	5.5	11.0	5.5	9.3	6.0	4.9	1.6	1.6	9.3	11.0	9.9	0.0	100.
3	10.4	4.9	1.6	4.9	3.3	6.0	8.8	6.0	9.9	5.5	3.8	2.2	2.2	8.2	12.1	9.9	0.0	100.
4	11.5	2.7	2.2	4.9	3.8	7.7	6.6	6.6	8.8	3.8	3.8	3.8	2.2	7.7	12.6	11.0	0.0	100.
5	9.3	3.8	3.8	3.3	3.8	6.0	9.3	4.4	9.3	6.0	1.6	2.7	1.6	8.8	14.3	11.5	0.0	100.
6	10.4	4.4	2.7	3.3	4.9	6.6	7.1	6.6	7.7	6.0	1.1	2.2	3.8	8.8	12.1	12.1	0.0	100.
7	8.8	4.9	2.7	2.7	3.3	6.6	7.7	6.6	8.2	6.6	2.7	1.1	4.9	6.6	11.5	14.8	0.0	100.
8	11.0	3.3	4.4	2.8	3.3	6.1	8.3	6.1	8.3	6.1	2.8	2.2	3.9	7.2	12.2	12.2	0.0	100.
9	11.7	2.8	2.8	5.0	3.9	5.0	5.6	7.8	11.1	5.0	2.8	1.1	5.0	5.0	11.1	14.4	0.0	100.
10	12.3	3.9	2.8	3.9	2.8	5.0	7.3	6.7	11.2	6.7	2.2	3.9	2.8	5.0	11.2	12.3	0.0	100.
11	12.9	5.1	2.8	1.1	4.5	6.2	3.9	10.1	11.2	5.6	2.2	2.8	2.8	4.5	12.4	11.8	0.0	100.
12	12.9	1.7	6.7	1.1	4.5	5.1	6.2	6.7	14.0	5.1	3.9	0.6	1.7	7.9	11.2	10.7	0.0	100.
13	11.7	3.9	3.9	3.4	2.8	4.5	6.1	8.4	11.7	7.3	3.9	1.7	1.7	6.1	11.7	11.2	0.0	100.
14	10.6	1.7	5.0	3.9	2.8	4.4	9.4	3.9	11.7	9.4	3.9	1.1	1.1	7.8	12.8	10.6	0.0	100.
15	8.8	3.3	2.8	6.6	2.2	3.3	9.4	4.4	11.0	11.0	3.3	0.6	1.1	7.2	13.8	11.0	0.0	100.
16	9.3	3.3	4.4	4.4	2.7	2.2	9.3	10.4	7.1	10.4	2.7	2.2	2.7	5.5	11.5	11.5	0.0	100.
17	11.0	1.6	6.0	3.3	2.7	4.9	8.8	6.6	9.9	9.3	2.2	1.6	2.2	4.9	12.6	12.1	0.0	100.
18	9.4	5.5	4.4	6.1	2.8	4.4	11.0	6.1	10.5	7.2	2.8	0.6	1.1	5.0	11.6	11.6	0.0	100.
19	8.2	6.0	3.3	6.6	4.4	5.5	9.9	9.3	7.7	8.2	2.2	1.1	2.2	3.3	10.4	11.5	0.0	100.
20	9.3	5.5	4.9	4.9	4.9	9.9	7.1	9.3	8.8	7.7	1.6	0.0	3.3	2.2	8.2	12.1	0.0	100.
21	12.1	4.4	2.7	4.9	4.4	9.3	10.4	9.3	6.6	8.2	1.6	1.6	1.1	3.8	8.8	10.4	0.0	100.
22	8.2	4.9	2.2	4.4	4.4	9.3	8.8	10.4	9.9	7.1	0.5	3.3	2.2	4.4	8.8	11.0	0.0	100.
23	10.4	5.5	2.7	3.3	5.5	6.0	12.1	7.7	8.2	7.7	2.2	2.2	2.2	4.9	8.8	10.4	0.0	100.
24	9.3	5.5	0.5	5.5	3.8	6.6	9.9	8.2	10.4	4.9	4.4	3.3	1.6	4.9	9.9	11.0	0.0	100.
ALL	10.4	4.0	3.4	4.0	3.7	6.0	8.6	7.2	9.7	7.0	2.8	1.9	2.4	6.1	11.2	11.5	0.0	100.

NUMBER OF OBS = 4347

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 1996

PROGRAM: WINPER
VERSION: 2P

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	6.5	0.0	6.5	0.0	9.7	6.5	3.2	22.6	3.2	6.5	3.2	9.7	0.0	3.2	9.7	0.0	100.
2	3.2	6.5	3.2	6.5	3.2	3.2	12.9	3.2	12.9	9.7	6.5	6.5	12.9	0.0	3.2	6.5	0.0	100.
3	0.0	3.2	3.2	3.2	9.7	6.5	12.9	3.2	3.2	16.1	3.2	12.9	3.2	9.7	0.0	9.7	0.0	100.
4	0.0	0.0	3.2	3.2	12.9	12.9	3.2	0.0	6.5	12.9	9.7	3.2	6.5	3.2	0.0	19.4	0.0	100.
5	9.7	0.0	3.2	0.0	16.1	6.5	3.2	3.2	6.5	19.4	3.2	3.2	6.5	3.2	0.0	16.1	0.0	100.
6	12.9	3.2	0.0	3.2	6.5	9.7	3.2	9.7	12.9	3.2	3.2	3.2	3.2	3.2	3.2	6.5	0.0	100.
7	12.9	3.2	3.2	0.0	3.2	22.6	9.7	3.2	3.2	12.9	3.2	0.0	6.5	6.5	3.2	6.5	0.0	100.
8	16.1	0.0	3.2	0.0	9.7	12.9	9.7	6.5	12.9	9.7	0.0	3.2	0.0	9.7	0.0	6.5	0.0	100.
9	12.9	3.2	0.0	3.2	0.0	3.2	16.1	9.7	16.1	9.7	9.7	0.0	3.2	3.2	3.2	6.5	0.0	100.
10	9.7	6.5	0.0	6.5	0.0	0.0	16.1	9.7	12.9	3.2	12.9	6.5	0.0	6.5	0.0	9.7	0.0	100.
11	19.4	6.5	0.0	0.0	3.2	3.2	12.9	6.5	16.1	6.5	9.7	3.2	3.2	0.0	0.0	9.7	0.0	100.
12	12.9	3.2	3.2	0.0	3.2	9.7	12.9	16.1	0.0	9.7	6.5	3.2	0.0	3.2	0.0	16.1	0.0	100.
13	9.7	9.7	3.2	0.0	0.0	9.7	19.4	0.0	9.7	9.7	3.2	3.2	0.0	3.2	0.0	19.4	0.0	100.
14	12.9	6.5	0.0	3.2	3.2	6.5	19.4	3.2	6.5	9.7	0.0	9.7	0.0	3.2	0.0	16.1	0.0	100.
15	9.7	3.2	0.0	6.5	3.2	9.7	6.5	12.9	9.7	6.5	0.0	0.0	9.7	0.0	3.2	19.4	0.0	100.
16	12.9	3.2	0.0	0.0	12.9	3.2	9.7	9.7	9.7	6.5	0.0	0.0	6.5	6.5	6.5	12.9	0.0	100.
17	12.9	9.7	3.2	6.5	3.2	6.5	9.7	3.2	16.1	3.2	0.0	3.2	3.2	6.5	3.2	9.7	0.0	100.
18	6.5	6.5	6.5	0.0	6.5	9.7	12.9	3.2	9.7	6.5	0.0	0.0	3.2	0.0	6.5	22.6	0.0	100.
19	6.5	9.7	6.5	3.2	9.7	3.2	16.1	3.2	9.7	3.2	3.2	0.0	0.0	3.2	6.5	16.1	0.0	100.
20	3.2	6.5	9.7	6.5	9.7	0.0	12.9	9.7	12.9	3.2	0.0	0.0	3.2	0.0	3.2	19.4	0.0	100.
21	12.9	6.5	12.9	0.0	6.5	6.5	9.7	9.7	12.9	6.5	0.0	0.0	3.2	0.0	6.5	6.5	0.0	100.
22	9.7	9.7	3.2	9.7	3.2	12.9	3.2	12.9	9.7	6.5	0.0	3.2	3.2	0.0	6.5	6.5	0.0	100.
23	9.7	6.5	6.5	9.7	6.5	3.2	12.9	6.5	9.7	6.5	3.2	6.5	0.0	3.2	0.0	9.7	0.0	100.
24	12.9	3.2	3.2	12.9	3.2	6.5	12.9	6.5	9.7	6.5	3.2	3.2	6.5	3.2	3.2	3.2	0.0	100.
ALL	9.9	5.1	3.2	3.8	5.6	7.4	11.0	6.5	10.5	7.9	3.5	3.2	4.2	3.8	3.1	11.3	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 1996

PROGRAM: WINPER
VERSION: 2P

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	3.2	6.5	6.5	9.7	9.7	12.9	9.7	16.1	9.7	3.2	3.2	0.0	3.2	0.0	3.2	0.0	100.
2	6.5	6.5	3.2	0.0	12.9	9.7	6.5	19.4	16.1	3.2	12.9	0.0	0.0	0.0	3.2	0.0	0.0	100.
3	9.7	6.5	3.2	0.0	9.7	12.9	6.5	12.9	19.4	6.5	9.7	0.0	3.2	0.0	0.0	0.0	0.0	100.
4	6.5	9.7	0.0	3.2	0.0	19.4	6.5	16.1	12.9	6.5	6.5	3.2	3.2	3.2	3.2	0.0	0.0	100.
5	3.2	6.5	3.2	6.5	6.5	12.9	19.4	6.5	9.7	3.2	3.2	9.7	0.0	9.7	0.0	0.0	0.0	100.
6	9.7	0.0	3.2	6.5	6.5	12.9	16.1	9.7	6.5	9.7	3.2	6.5	3.2	3.2	0.0	3.2	0.0	100.
7	9.7	0.0	3.2	3.2	9.7	12.9	19.4	0.0	19.4	3.2	6.5	12.9	0.0	0.0	0.0	0.0	0.0	100.
8	6.5	0.0	6.5	3.2	9.7	9.7	19.4	3.2	22.6	0.0	6.5	6.5	6.5	0.0	0.0	0.0	0.0	100.
9	3.2	3.2	0.0	6.5	9.7	9.7	22.6	9.7	16.1	6.5	3.2	6.5	0.0	0.0	3.2	0.0	0.0	100.
10	3.2	3.2	6.5	9.7	6.5	12.9	19.4	0.0	19.4	6.5	0.0	3.2	0.0	0.0	0.0	9.7	0.0	100.
11	6.5	3.2	3.2	3.2	16.1	9.7	19.4	6.5	9.7	9.7	3.2	3.2	3.2	0.0	0.0	3.2	0.0	100.
12	9.7	0.0	6.5	6.5	6.5	9.7	22.6	3.2	16.1	12.9	0.0	6.5	0.0	0.0	0.0	0.0	0.0	100.
13	9.7	3.2	3.2	6.5	3.2	12.9	19.4	6.5	19.4	6.5	3.2	0.0	0.0	0.0	0.0	3.2	0.0	100.
14	6.5	9.7	6.5	0.0	6.5	6.5	22.6	6.5	19.4	6.5	6.5	0.0	0.0	0.0	0.0	3.2	0.0	100.
15	0.0	12.9	9.7	0.0	0.0	9.7	22.6	12.9	12.9	12.9	3.2	0.0	0.0	0.0	0.0	3.2	0.0	100.
16	3.2	6.5	6.5	9.7	0.0	3.2	19.4	12.9	19.4	9.7	3.2	3.2	0.0	0.0	0.0	3.2	0.0	100.
17	3.2	6.5	6.5	6.5	3.2	3.2	19.4	25.8	6.5	3.2	6.5	3.2	0.0	0.0	0.0	6.5	0.0	100.
18	6.5	6.5	6.5	6.5	0.0	9.7	19.4	22.6	9.7	6.5	3.2	0.0	0.0	0.0	0.0	3.2	0.0	100.
19	6.5	3.2	3.2	6.5	6.5	16.1	9.7	32.3	6.5	3.2	0.0	3.2	0.0	0.0	0.0	3.2	0.0	100.
20	9.7	3.2	0.0	9.7	6.5	16.1	12.9	29.0	6.5	3.2	0.0	0.0	0.0	0.0	3.2	0.0	0.0	100.
21	3.2	6.5	3.2	16.1	6.5	6.5	12.9	22.6	12.9	0.0	6.5	0.0	0.0	3.2	0.0	0.0	0.0	100.
22	3.2	6.5	3.2	9.7	9.7	6.5	19.4	12.9	16.1	6.5	0.0	0.0	0.0	0.0	0.0	6.5	0.0	100.
23	3.2	3.2	3.2	9.7	0.0	19.4	19.4	12.9	16.1	6.5	0.0	3.2	0.0	0.0	0.0	3.2	0.0	100.
24	3.2	3.2	3.2	3.2	9.7	12.9	16.1	12.9	16.1	12.9	0.0	0.0	0.0	3.2	0.0	3.2	0.0	100.
ALL	5.6	4.7	4.2	5.8	6.5	11.0	16.8	12.8	14.4	6.5	3.8	3.1	0.9	1.1	0.5	2.4	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 1996

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

SEPTEMBR

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	6.7	3.3	0.0	6.7	10.0	20.0	6.7	16.7	3.3	3.3	3.3	6.7	6.7	0.0	3.3	0.0	100.
2	3.3	10.0	0.0	0.0	6.7	13.3	13.3	10.0	10.0	6.7	3.3	3.3	10.0	3.3	0.0	6.7	0.0	100.
3	0.0	13.3	0.0	0.0	3.3	10.0	13.3	6.7	16.7	6.7	6.7	0.0	6.7	6.7	3.3	6.7	0.0	100.
4	6.7	6.7	0.0	0.0	6.7	10.0	6.7	6.7	16.7	6.7	3.3	3.3	3.3	10.0	6.7	6.7	0.0	100.
5	0.0	10.0	3.3	0.0	0.0	10.0	16.7	6.7	20.0	3.3	0.0	3.3	10.0	0.0	6.7	10.0	0.0	100.
6	3.3	6.7	0.0	0.0	10.0	13.3	6.7	13.3	13.3	6.7	0.0	3.3	6.7	3.3	6.7	6.7	0.0	100.
7	0.0	3.3	3.3	3.3	6.7	13.3	6.7	10.0	16.7	3.3	6.7	3.3	3.3	3.3	10.0	6.7	0.0	100.
8	6.7	6.7	0.0	6.7	3.3	16.7	10.0	3.3	16.7	0.0	6.7	3.3	6.7	0.0	6.7	6.7	0.0	100.
9	0.0	6.7	10.0	0.0	3.3	16.7	16.7	3.3	10.0	6.7	0.0	6.7	3.3	3.3	3.3	10.0	0.0	100.
10	6.7	6.7	3.3	10.0	3.3	10.0	13.3	6.7	13.3	3.3	6.7	0.0	6.7	3.3	3.3	3.3	0.0	100.
11	6.7	0.0	3.3	13.3	6.7	6.7	16.7	3.3	16.7	0.0	3.3	0.0	3.3	3.3	0.0	16.7	0.0	100.
12	13.3	3.3	0.0	6.7	3.3	10.0	16.7	6.7	13.3	3.3	0.0	3.3	3.3	3.3	3.3	10.0	0.0	100.
13	6.7	6.7	0.0	6.7	3.3	10.0	13.3	10.0	13.3	3.3	0.0	0.0	10.0	0.0	6.7	10.0	0.0	100.
14	13.3	3.3	0.0	10.0	0.0	13.3	13.3	3.3	20.0	0.0	3.3	0.0	10.0	0.0	3.3	6.7	0.0	100.
15	6.7	0.0	6.7	3.3	3.3	10.0	13.3	13.3	13.3	0.0	3.3	0.0	6.7	3.3	0.0	16.7	0.0	100.
16	13.3	3.3	3.3	3.3	0.0	10.0	13.3	16.7	13.3	0.0	3.3	3.3	6.7	0.0	0.0	10.0	0.0	100.
17	10.0	0.0	10.0	3.3	3.3	3.3	20.0	20.0	3.3	0.0	3.3	0.0	10.0	0.0	3.3	10.0	0.0	100.
18	10.0	3.3	13.3	0.0	3.3	13.3	10.0	23.3	0.0	0.0	3.3	6.7	3.3	3.3	3.3	3.3	0.0	100.
19	13.3	3.3	3.3	10.0	6.7	10.0	10.0	26.7	0.0	0.0	6.7	0.0	3.3	3.3	3.3	0.0	0.0	100.
20	10.0	6.7	0.0	13.3	3.3	13.3	13.3	20.0	3.3	0.0	3.3	0.0	6.7	0.0	6.7	0.0	0.0	100.
21	10.0	3.3	0.0	13.3	0.0	16.7	20.0	16.7	0.0	3.3	3.3	0.0	6.7	3.3	3.3	0.0	0.0	100.
22	6.7	3.3	6.7	6.7	0.0	10.0	20.0	20.0	6.7	3.3	3.3	3.3	6.7	3.3	0.0	0.0	0.0	100.
23	10.0	3.3	3.3	6.7	6.7	10.0	13.3	16.7	6.7	3.3	10.0	0.0	10.0	0.0	0.0	0.0	0.0	100.
24	3.3	6.7	3.3	6.7	3.3	10.0	16.7	13.3	13.3	0.0	6.7	3.3	3.3	3.3	3.3	3.3	0.0	100.
ALL	6.8	5.1	3.2	5.1	3.9	11.2	13.9	11.8	11.4	2.6	3.7	2.1	6.4	2.8	3.5	6.4	0.0	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 1996

PROGRAM: WINPER
VERSION: 2P

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	5.4	5.4	3.3	4.3	5.4	9.8	13.0	6.5	18.5	5.4	4.3	3.3	5.4	3.3	1.1	5.4	0.0	100.
2	4.3	7.6	2.2	2.2	7.6	8.7	10.9	10.9	13.0	6.5	7.6	3.3	7.6	1.1	2.2	4.3	0.0	100.
3	3.3	7.6	2.2	1.1	7.6	9.8	10.9	7.6	13.0	9.8	6.5	4.3	4.3	5.4	1.1	5.4	0.0	100.
4	4.3	5.4	1.1	2.2	6.5	14.1	5.4	7.6	12.0	8.7	6.5	3.3	4.3	5.4	6.5	6.5	0.0	100.
5	4.3	5.4	3.3	2.2	7.6	9.8	13.0	5.4	12.0	6.5	2.2	6.5	5.4	6.5	3.3	6.5	0.0	100.
6	8.7	3.3	1.1	3.3	7.6	12.0	8.7	10.9	10.9	8.7	1.1	3.3	6.5	5.4	3.3	5.4	0.0	100.
7	7.6	2.2	3.3	2.2	6.5	16.3	12.0	4.3	13.0	6.5	5.4	5.4	3.3	3.3	4.3	4.3	0.0	100.
8	9.8	2.2	3.3	3.3	7.6	13.0	13.0	4.3	17.4	3.3	4.3	4.3	4.3	3.3	2.2	4.3	0.0	100.
9	5.4	4.3	3.3	3.3	4.3	9.8	18.5	7.6	14.1	7.6	4.3	4.3	2.2	2.2	3.3	5.4	0.0	100.
10	6.5	5.4	3.3	8.7	3.3	7.6	16.3	5.4	15.2	4.3	6.5	3.3	2.2	3.3	1.1	7.6	0.0	100.
11	10.9	3.3	2.2	5.4	8.7	6.5	16.3	5.4	14.1	5.4	5.4	2.2	3.3	1.1	0.0	9.8	0.0	100.
12	12.0	2.2	3.3	4.3	4.3	9.8	17.4	8.7	9.8	8.7	2.2	4.3	1.1	2.2	1.1	8.7	0.0	100.
13	8.7	6.5	2.2	4.3	2.2	10.9	17.4	5.4	14.1	6.5	2.2	1.1	4.3	1.1	2.2	10.9	0.0	100.
14	10.9	6.5	2.2	4.3	3.3	8.7	18.5	4.3	15.2	5.4	3.3	3.3	3.3	1.1	1.1	8.7	0.0	100.
15	5.4	5.4	5.4	3.3	2.2	9.8	14.1	13.0	12.0	6.5	2.2	0.0	5.4	1.1	1.1	13.0	0.0	100.
16	9.8	4.3	3.3	4.3	4.3	5.4	14.1	13.0	14.1	5.4	2.2	2.2	4.3	2.2	2.2	8.7	0.0	100.
17	8.7	5.4	6.5	5.4	3.3	4.3	16.3	16.3	8.7	2.2	3.3	2.2	4.3	2.2	2.2	8.7	0.0	100.
18	7.6	5.4	8.7	2.2	3.3	10.9	14.1	16.3	6.5	4.3	2.2	2.2	2.2	1.1	3.3	9.8	0.0	100.
19	8.7	5.4	4.3	6.5	7.6	9.8	12.0	20.7	5.4	2.2	3.3	1.1	1.1	2.2	3.3	6.5	0.0	100.
20	7.6	5.4	3.3	9.8	6.5	9.8	13.0	19.6	7.6	2.2	1.1	0.0	3.3	0.0	4.3	6.5	0.0	100.
21	8.7	5.4	5.4	9.8	4.3	9.8	14.1	16.3	8.7	3.3	3.3	0.0	3.3	2.2	3.3	2.2	0.0	100.
22	6.5	6.5	4.3	8.7	4.3	9.8	14.1	15.2	10.9	5.4	1.1	2.2	3.3	1.1	2.2	4.3	0.0	100.
23	7.6	4.3	4.3	8.7	4.3	10.9	15.2	12.0	10.9	5.4	4.3	3.3	3.3	1.1	0.0	4.3	0.0	100.
24	6.5	4.3	3.3	7.6	5.4	9.8	15.2	10.9	13.0	6.5	3.3	2.2	3.3	3.3	2.2	3.3	0.0	100.
ALL	7.5	5.0	3.5	4.9	5.3	9.9	13.9	10.3	12.1	5.7	3.7	2.8	3.8	2.5	2.4	6.7	0.0	100.

NUMBER OF OBS = 2208

NPPD-COOPER NUCLEAR STaTION 100-M WIND DIRECTION OCT-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	3.7	7.4	7.4	0.0	3.7	0.0	3.7	11.1	29.6	11.1	3.7	0.0	0.0	7.4	3.7	7.4	0.0	100.
2	0.0	7.4	7.4	0.0	0.0	7.4	0.0	11.1	22.2	14.8	0.0	3.7	0.0	7.4	3.7	14.8	0.0	100.
3	3.7	7.4	3.7	0.0	3.7	3.7	7.4	3.7	29.6	7.4	0.0	0.0	3.7	7.4	7.4	11.1	0.0	100.
4	0.0	3.8	7.7	0.0	0.0	0.0	11.5	11.5	30.8	3.8	0.0	0.0	0.0	7.7	7.7	15.4	0.0	100.
5	11.5	0.0	0.0	3.8	3.8	0.0	11.5	15.4	23.1	0.0	3.8	3.8	0.0	7.7	11.5	3.8	0.0	100.
6	7.7	3.8	0.0	3.8	0.0	0.0	11.5	19.2	23.1	3.8	0.0	3.8	0.0	11.5	3.8	7.7	0.0	100.
7	0.0	0.0	0.0	3.8	0.0	0.0	11.5	19.2	23.1	0.0	7.7	0.0	0.0	11.5	7.7	15.4	0.0	100.
8	7.7	3.8	0.0	0.0	3.8	0.0	19.2	11.5	19.2	7.7	3.8	0.0	0.0	11.5	3.8	7.7	0.0	100.
9	11.5	3.8	0.0	0.0	0.0	3.8	11.5	11.5	19.2	15.4	3.8	0.0	0.0	7.7	7.7	3.8	0.0	100.
10	3.8	3.8	0.0	0.0	0.0	3.8	7.7	7.7	30.8	7.7	7.7	0.0	0.0	11.5	0.0	15.4	0.0	100.
11	7.7	0.0	3.8	0.0	0.0	0.0	11.5	11.5	26.9	11.5	3.8	0.0	0.0	11.5	0.0	11.5	0.0	100.
12	7.7	3.8	0.0	0.0	0.0	0.0	15.4	7.7	23.1	11.5	3.8	3.8	3.8	7.7	0.0	11.5	0.0	100.
13	3.8	3.8	0.0	0.0	0.0	0.0	3.8	19.2	26.9	7.7	7.7	0.0	7.7	3.8	0.0	15.4	0.0	100.
14	11.5	0.0	0.0	0.0	0.0	7.7	3.8	11.5	30.8	0.0	3.8	7.7	7.7	0.0	7.7	7.7	0.0	100.
15	11.5	0.0	0.0	3.8	0.0	3.8	3.8	15.4	23.1	3.8	0.0	3.8	11.5	0.0	11.5	7.7	0.0	100.
16	7.7	0.0	3.8	0.0	0.0	0.0	11.5	15.4	23.1	0.0	0.0	15.4	3.8	0.0	7.7	11.5	0.0	100.
17	0.0	7.7	0.0	0.0	0.0	0.0	7.7	11.5	34.6	0.0	3.8	11.5	3.8	0.0	11.5	7.7	0.0	100.
18	0.0	7.7	0.0	0.0	0.0	3.8	3.8	23.1	19.2	7.7	7.7	3.8	7.7	0.0	7.7	7.7	0.0	100.
19	0.0	7.7	0.0	0.0	0.0	7.7	3.8	26.9	19.2	7.7	0.0	0.0	7.7	3.8	7.7	7.7	0.0	100.
20	0.0	7.7	0.0	0.0	3.8	3.8	3.8	34.6	15.4	3.8	0.0	0.0	0.0	0.0	19.2	7.7	0.0	100.
21	3.8	3.8	0.0	0.0	3.8	0.0	7.7	26.9	26.9	0.0	0.0	0.0	0.0	7.7	11.5	7.7	0.0	100.
22	11.5	3.8	0.0	0.0	3.8	3.8	3.8	23.1	26.9	3.8	0.0	0.0	0.0	3.8	11.5	3.8	0.0	100.
23	11.5	3.8	3.8	0.0	7.7	0.0	3.8	15.4	34.6	3.8	0.0	0.0	0.0	3.8	11.5	0.0	0.0	100.
24	11.5	3.8	3.8	3.8	3.8	0.0	3.8	11.5	38.5	3.8	0.0	0.0	0.0	7.7	7.7	0.0	0.0	100.
ALL	5.7	4.0	1.8	0.8	1.6	2.1	7.7	15.6	25.8	5.7	2.6	2.4	2.4	5.9	7.2	8.8	0.0	100.

NUMBER OF OBS = 627

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	18.2	0.0	0.0	4.5	9.1	4.5	13.6	9.1	4.5	4.5	0.0	0.0	0.0	4.5	4.5	22.7	0.0	100.
2	18.2	0.0	0.0	4.5	9.1	9.1	9.1	9.1	4.5	4.5	0.0	0.0	0.0	4.5	4.5	22.7	0.0	100.
3	18.2	4.5	0.0	4.5	4.5	9.1	13.6	9.1	4.5	4.5	0.0	0.0	0.0	9.1	0.0	18.2	0.0	100.
4	13.6	4.5	0.0	0.0	9.1	13.6	9.1	9.1	4.5	4.5	0.0	0.0	0.0	9.1	4.5	18.2	0.0	100.
5	9.1	0.0	4.5	0.0	4.5	18.2	9.1	9.1	4.5	9.1	0.0	0.0	0.0	4.5	13.6	13.6	0.0	100.
6	9.1	0.0	4.5	0.0	9.1	9.1	9.1	13.6	9.1	4.5	0.0	0.0	4.5	4.5	9.1	13.6	0.0	100.
7	9.1	0.0	0.0	4.5	9.1	13.6	0.0	18.2	9.1	4.5	0.0	0.0	0.0	9.1	4.5	18.2	0.0	100.
8	13.6	0.0	0.0	9.1	4.5	13.6	0.0	22.7	0.0	9.1	0.0	0.0	0.0	4.5	9.1	13.6	0.0	100.
9	9.1	4.5	4.5	4.5	4.5	18.2	0.0	22.7	4.5	4.5	0.0	0.0	0.0	4.5	4.5	13.6	0.0	100.
10	9.1	9.1	0.0	0.0	9.1	13.6	9.1	18.2	0.0	9.1	0.0	0.0	0.0	4.5	0.0	18.2	0.0	100.
11	18.2	4.0	0.0	4.5	0.0	18.2	4.5	18.2	4.5	9.1	0.0	0.0	4.5	0.0	0.0	18.2	0.0	100.
12	13.6	4.5	4.5	4.5	9.1	9.1	4.5	9.1	9.1	9.1	0.0	0.0	4.5	0.0	0.0	18.2	0.0	100.
13	22.7	0.0	0.0	4.5	4.5	4.5	13.6	13.6	4.5	9.1	0.0	0.0	4.5	0.0	0.0	18.2	0.0	100.
14	22.7	0.0	0.0	4.5	0.0	13.6	4.5	9.1	13.6	4.5	4.5	0.0	4.5	0.0	0.0	18.2	0.0	100.
15	22.7	0.0	0.0	4.5	4.5	13.6	0.0	9.1	9.1	9.1	4.5	0.0	4.5	0.0	0.0	18.2	0.0	100.
16	21.7	0.0	0.0	4.3	4.3	8.7	4.3	13.0	4.3	8.7	4.3	0.0	4.3	0.0	4.3	17.4	0.0	100.
17	21.7	0.0	0.0	4.3	0.0	13.0	4.3	8.7	17.4	4.3	0.0	0.0	4.3	0.0	4.3	17.4	0.0	100.
18	8.7	4.3	0.0	4.3	8.7	4.3	8.7	4.3	17.4	4.3	0.0	4.3	0.0	0.0	8.7	21.7	0.0	100.
19	13.0	8.7	8.7	4.3	4.3	4.3	13.0	0.0	8.7	13.0	0.0	0.0	4.3	0.0	8.7	8.7	0.0	100.
20	17.4	4.3	0.0	8.7	0.0	13.0	8.7	4.3	4.3	4.3	4.3	4.3	0.0	0.0	8.7	17.4	0.0	100.
21	8.7	4.3	0.0	4.3	8.7	8.7	4.3	8.7	4.3	8.7	0.0	0.0	4.3	0.0	8.7	26.1	0.0	100.
22	13.0	4.3	0.0	4.3	8.7	8.7	4.3	8.7	4.3	4.3	4.3	0.0	4.3	4.3	4.3	21.7	0.0	100.
23	17.4	0.0	0.0	4.3	4.3	13.0	4.3	8.7	4.3	4.3	0.0	8.7	0.0	4.3	8.7	17.4	0.0	100.
24	13.0	0.0	0.0	4.3	8.7	4.3	8.7	8.7	4.3	4.3	0.0	4.3	4.3	4.3	4.3	26.1	0.0	100.
ALL	15.1	2.2	1.1	4.1	5.8	10.8	6.7	11.0	6.5	6.5	0.9	0.9	2.2	3.0	4.8	18.2	0.0	100.

NUMBER OF OBS = 537

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	12.9	6.5	3.2	0.0	0.0	9.7	0.0	3.2	9.7	9.7	0.0	0.0	0.0	12.9	22.6	9.7	0.0	100.
2	9.7	9.7	3.2	0.0	0.0	9.7	0.0	3.2	6.5	12.9	0.0	0.0	6.5	9.7	19.4	9.7	0.0	100.
3	12.9	3.2	3.2	3.2	0.0	3.2	6.5	3.2	6.5	12.9	3.2	3.2	0.0	9.7	19.4	9.7	0.0	100.
4	16.1	3.2	0.0	3.2	3.2	6.5	3.2	3.2	12.9	6.5	3.2	3.2	0.0	9.7	19.4	6.5	0.0	100.
5	16.1	0.0	3.2	0.0	3.2	3.2	6.5	6.5	9.7	6.5	3.2	3.2	0.0	9.7	22.6	6.5	0.0	100.
6	19.4	0.0	0.0	3.2	3.2	3.2	6.5	6.5	6.5	9.7	0.0	0.0	6.5	9.7	19.4	6.5	0.0	100.
7	9.7	3.2	0.0	3.2	0.0	6.5	6.5	9.7	3.2	9.7	0.0	0.0	3.2	6.5	29.0	9.7	0.0	100.
8	16.1	0.0	3.2	0.0	3.2	6.5	3.2	9.7	16.1	0.0	0.0	0.0	0.0	9.7	25.8	6.5	0.0	100.
9	9.7	3.2	3.2	0.0	3.2	6.5	3.2	9.7	12.9	3.2	3.2	0.0	0.0	12.9	22.6	6.5	0.0	100.
10	9.7	3.2	0.0	0.0	3.2	9.7	0.0	12.9	12.9	3.2	0.0	0.0	3.2	12.9	22.6	6.5	0.0	100.
11	12.9	0.0	3.2	0.0	0.0	9.7	6.5	6.5	16.1	0.0	3.2	3.2	6.5	3.2	25.8	3.2	0.0	100.
12	12.9	0.0	3.2	0.0	0.0	6.5	9.7	6.5	9.7	6.5	6.5	6.5	0.0	6.5	16.1	9.7	0.0	100.
13	12.9	3.2	0.0	0.0	0.0	6.5	9.7	9.7	3.2	6.5	9.7	9.7	0.0	3.2	22.6	3.2	0.0	100.
14	12.9	3.2	0.0	0.0	3.2	9.7	3.2	12.9	3.2	3.2	6.5	3.2	6.5	16.1	12.9	3.2	0.0	100.
15	12.9	3.2	3.2	0.0	6.5	0.0	6.5	3.2	16.1	6.5	0.0	3.2	3.2	12.9	19.4	3.2	0.0	100.
16	16.1	6.5	0.0	0.0	3.2	3.2	3.2	9.7	9.7	0.0	6.5	3.2	3.2	9.7	19.4	6.5	0.0	100.
17	9.7	3.2	6.5	0.0	3.2	3.2	3.2	16.1	6.5	0.0	6.5	0.0	3.2	12.9	16.1	9.7	0.0	100.
18	3.2	9.7	3.2	0.0	3.2	0.0	6.5	22.6	0.0	6.5	0.0	0.0	3.2	9.7	16.1	16.1	0.0	100.
19	9.7	12.9	0.0	3.2	3.2	3.2	3.2	16.1	0.0	6.5	0.0	0.0	3.2	9.7	16.1	12.9	0.0	100.
20	12.9	0.0	16.1	0.0	3.2	0.0	0.0	12.9	6.5	3.2	0.0	6.5	0.0	9.7	12.9	16.1	0.0	100.
21	9.7	6.5	9.7	6.5	0.0	0.0	0.0	6.5	12.9	3.2	0.0	0.0	9.7	6.5	12.9	16.1	0.0	100.
22	9.7	12.9	3.2	9.7	0.0	0.0	0.0	3.2	16.1	3.2	3.2	0.0	6.5	3.2	12.9	16.1	0.0	100.
23	9.7	6.5	3.2	6.5	0.0	3.2	3.2	0.0	16.1	6.5	0.0	0.0	6.5	6.5	19.4	12.9	0.0	100.
24	9.7	6.5	6.5	0.0	6.5	3.2	3.2	3.2	9.7	6.5	3.2	0.0	3.2	16.1	9.7	12.9	0.0	100.
ALL	12.0	4.4	3.2	1.6	2.2	4.7	3.9	8.2	9.3	5.5	2.4	1.9	3.1	9.5	19.0	9.1	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	11.2	5.0	3.7	1.2	3.7	5.0	5.0	7.5	15.0	8.7	1.2	0.0	0.0	8.7	11.2	12.5	0.0	100.
2	8.7	6.3	3.7	1.2	2.5	8.7	2.5	7.5	11.2	11.2	0.0	1.2	2.5	7.5	10.0	15.0	0.0	100.
3	11.2	5.0	2.5	2.5	2.5	5.0	8.7	5.0	13.7	8.7	1.2	1.2	1.2	8.7	10.0	12.5	0.0	100.
4	10.1	3.8	2.5	1.3	3.8	6.3	7.6	7.6	16.5	5.1	1.3	1.3	0.0	8.9	11.4	12.7	0.0	100.
5	12.7	0.0	2.5	1.3	3.8	6.3	8.9	10.1	12.7	5.1	2.5	2.5	0.0	7.6	16.5	7.6	0.0	100.
6	12.7	1.3	1.3	2.5	3.8	3.8	8.9	12.7	12.7	6.3	0.0	1.3	3.8	8.9	11.4	8.9	0.0	100.
7	6.3	1.3	0.0	3.8	2.5	6.3	6.3	15.2	11.4	5.1	2.5	0.0	1.3	8.9	15.2	13.9	0.0	100.
8	12.7	1.3	1.3	2.5	3.8	6.3	7.6	13.9	12.7	5.1	1.3	0.0	0.0	8.9	13.9	8.9	0.0	100.
9	10.1	3.8	2.5	1.3	2.5	8.9	5.1	13.9	12.7	7.6	2.5	0.0	0.0	8.9	12.7	7.6	0.0	100.
10	7.6	5.1	0.0	0.0	3.8	8.9	5.1	12.7	15.2	6.3	2.5	0.0	1.3	10.1	8.9	12.7	0.0	100.
11	12.7	0.0	2.5	1.3	0.0	8.9	7.6	11.4	16.5	6.3	2.5	1.3	3.8	5.1	10.1	10.1	0.0	100.
12	11.4	2.5	2.5	1.3	2.5	5.1	10.1	7.6	13.9	8.9	3.8	3.8	2.5	5.1	6.3	12.7	0.0	100.
13	12.7	2.5	0.0	1.3	1.3	3.8	8.9	13.9	11.4	7.6	6.3	3.8	3.8	2.5	8.9	11.4	0.0	100.
14	15.2	1.3	0.0	1.3	1.3	10.1	3.8	11.4	15.2	2.5	5.1	3.8	6.3	6.3	7.6	8.9	0.0	100.
15	15.2	1.3	1.3	2.5	3.8	5.1	3.8	8.9	16.5	6.3	1.3	2.5	6.3	5.1	11.4	8.9	0.0	100.
16	15.0	2.5	1.2	1.2	2.5	3.7	6.3	12.5	12.5	2.5	3.7	6.3	3.7	3.7	11.2	11.2	0.0	100.
17	10.0	3.7	2.5	1.2	1.2	5.0	5.0	12.5	18.8	1.2	3.7	3.7	3.7	5.0	11.2	11.2	0.0	100.
18	3.7	7.5	1.2	1.2	3.7	2.5	6.3	17.5	11.2	6.3	2.5	2.5	3.7	3.7	11.2	15.0	0.0	100.
19	7.5	10.0	2.5	2.5	2.5	5.0	6.3	15.0	8.7	8.7	0.0	0.0	5.0	5.0	11.2	10.0	0.0	100.
20	10.0	3.7	6.3	2.5	2.5	5.0	3.7	17.5	8.7	3.7	1.2	3.7	0.0	3.7	13.7	13.7	0.0	100.
21	7.5	5.0	3.7	3.7	3.7	2.5	3.7	13.7	15.0	3.7	0.0	0.0	5.0	5.0	11.2	16.2	0.0	100.
22	11.2	7.5	1.2	5.0	3.7	3.7	2.5	11.2	16.2	3.7	2.5	0.0	3.7	3.7	10.0	13.7	0.0	100.
23	12.5	3.7	2.5	3.7	3.7	5.0	3.7	7.5	18.8	5.0	0.0	2.5	2.5	5.0	13.7	10.0	0.0	100.
24	11.2	3.7	3.7	2.5	6.3	2.5	5.0	7.5	17.5	5.0	1.2	1.2	2.5	10.0	7.5	12.5	0.0	100.
ALL	10.8	3.7	2.1	2.0	3.0	5.6	5.9	11.4	13.9	5.9	2.0	1.8	2.6	6.5	11.1	11.6	0.0	100.

NUMBER OF OBS = 1908

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	8.1	5.2	3.5	2.9	4.7	7.6	9.3	7.0	16.9	7.0	2.9	1.7	2.9	5.8	5.8	8.7	0.0	100.
2	6.4	7.0	2.9	1.7	5.2	8.7	7.0	9.3	12.2	8.7	4.1	2.3	5.2	4.1	5.8	9.3	0.0	100.
3	7.0	6.4	2.3	1.7	5.2	7.6	9.9	6.4	13.4	9.3	4.1	2.9	2.9	7.0	5.2	8.7	0.0	100.
4	7.0	4.7	1.8	1.8	5.3	10.5	6.4	7.6	14.0	7.0	4.1	2.3	2.3	7.0	8.8	9.4	0.0	100.
5	8.2	2.9	2.9	1.8	5.8	8.2	11.1	7.6	12.3	5.8	2.3	4.7	2.9	7.0	9.4	7.0	0.0	100.
6	10.5	2.3	1.2	2.9	5.8	8.2	8.8	11.7	11.7	7.6	0.6	2.3	5.3	7.0	7.0	7.0	0.0	100.
7	7.0	1.8	1.8	2.9	4.7	11.7	9.4	9.4	12.3	5.8	4.1	2.9	2.3	5.8	9.4	8.8	0.0	100.
8	11.1	1.8	2.3	2.9	5.8	9.9	10.5	8.8	15.2	4.1	2.9	2.3	2.3	5.8	7.6	6.4	0.0	100.
9	7.6	4.1	2.9	2.3	3.5	9.4	12.3	10.5	13.5	7.6	3.5	2.3	1.2	5.3	7.6	6.4	0.0	100.
10	7.0	5.3	1.8	4.7	3.5	8.2	11.1	8.8	15.2	5.3	4.7	1.8	1.8	6.4	4.7	9.9	0.0	100.
11	11.7	1.8	2.3	3.5	4.7	7.6	12.3	8.2	15.2	5.8	4.1	1.8	3.5	2.9	4.7	9.9	0.0	100.
12	11.7	2.3	2.9	2.9	3.5	7.6	14.0	8.2	11.7	8.8	2.9	4.1	1.8	3.5	3.5	10.5	0.0	100.
13	10.5	4.7	1.2	2.9	1.8	7.6	13.5	9.4	12.9	7.0	4.1	2.3	4.1	1.8	5.3	11.1	0.0	100.
14	12.9	4.1	1.2	2.9	2.3	9.4	11.7	7.6	15.2	4.1	4.1	3.5	4.7	3.5	4.1	8.8	0.0	100.
15	9.9	3.5	3.5	2.9	2.9	7.6	9.4	11.1	14.0	6.4	1.8	1.2	5.8	2.9	5.8	11.1	0.0	100.
16	12.2	3.5	2.3	2.9	3.5	4.7	10.5	12.8	13.4	4.1	2.9	4.1	4.1	2.9	6.4	9.9	0.0	100.
17	9.3	4.7	4.7	3.5	2.3	4.7	11.0	14.5	13.4	1.7	3.5	2.9	4.1	3.5	6.4	9.9	0.0	100.
18	5.8	6.4	5.2	1.7	3.5	7.0	10.5	16.9	8.7	5.2	2.3	2.3	2.9	2.3	7.0	12.2	0.0	100.
19	8.1	7.6	3.5	4.7	5.2	7.6	9.3	18.0	7.0	5.2	1.7	0.6	2.9	3.5	7.0	8.1	0.0	100.
20	8.7	4.7	4.7	6.4	4.7	7.6	8.7	18.6	8.1	2.9	1.2	1.7	1.7	1.7	8.7	9.9	0.0	100.
21	8.1	5.2	4.7	7.0	4.1	6.4	9.3	15.1	11.6	3.5	1.7	0.0	4.1	3.5	7.0	8.7	0.0	100.
22	8.7	7.0	2.9	7.0	4.1	7.0	8.7	13.4	13.4	4.7	1.7	1.2	3.5	2.3	5.8	8.7	0.0	100.
23	9.9	4.1	3.5	6.4	4.1	8.1	9.9	9.9	14.5	5.2	2.3	2.9	2.9	2.9	6.4	7.0	0.0	100.
24	8.7	4.1	3.5	5.2	5.8	6.4	10.5	9.3	15.1	5.8	2.3	1.7	2.9	6.4	4.7	7.6	0.0	100.
ALL	9.0	4.4	2.9	3.6	4.3	7.9	10.2	10.8	12.9	5.8	2.9	2.3	3.3	4.4	6.4	9.0	0.0	100.

NUMBER OF OBS = 4116

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-DEC 1996

PROGRAM: WINPER
VERSION: 2P

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	9.0	4.5	3.7	2.5	4.0	7.9	10.2	6.5	13.0	6.5	3.4	2.0	2.5	6.8	7.3	10.2	0.0	100.
2	8.5	5.4	2.6	2.8	5.1	7.1	9.0	7.3	10.7	7.3	4.5	2.0	3.4	6.8	8.5	9.6	0.0	100.
3	8.8	5.6	2.0	3.4	4.2	6.8	9.3	6.2	11.6	7.3	4.0	2.5	2.5	7.6	8.8	9.3	0.0	100.
4	9.3	3.7	2.0	3.4	4.5	9.1	6.5	7.1	11.3	5.4	4.0	3.1	2.3	7.4	10.8	10.2	0.0	100.
5	8.8	3.4	3.4	2.5	4.8	7.1	10.2	5.9	10.8	5.9	2.0	3.7	2.3	7.9	11.9	9.3	0.0	100.
6	10.5	3.4	2.0	3.1	5.4	7.4	7.9	9.1	9.6	6.8	0.8	2.3	4.5	7.9	9.6	9.6	0.0	100.
7	7.9	3.4	2.3	2.8	4.0	9.1	8.5	7.9	10.2	6.2	3.4	2.0	3.7	6.2	10.5	11.9	0.0	100.
8	11.1	2.6	3.4	2.8	4.5	8.0	9.4	7.4	11.6	5.1	2.8	2.3	3.1	6.5	9.9	9.4	0.0	100.
9	9.7	3.4	2.8	3.7	3.7	7.1	8.8	9.1	12.3	6.3	3.1	1.7	3.1	5.1	9.4	10.5	0.0	100.
10	9.7	4.6	2.3	4.3	3.1	6.6	9.1	7.7	13.1	6.0	3.4	2.9	2.3	5.7	8.0	11.1	0.0	100.
11	12.3	3.4	2.6	2.3	4.6	6.9	8.0	9.2	13.2	5.7	3.2	2.3	3.2	3.7	8.6	10.9	0.0	100.
12	12.3	2.0	4.9	2.0	4.0	6.3	10.0	7.4	12.9	6.9	3.4	2.3	1.7	5.7	7.4	10.6	0.0	100.
13	11.1	4.3	2.6	3.1	2.3	6.0	9.7	8.9	12.3	7.1	4.0	2.0	2.9	4.0	8.6	11.1	0.0	100.
14	11.7	2.8	3.1	3.4	2.6	6.8	10.5	5.7	13.4	6.8	4.0	2.3	2.8	5.7	8.5	9.7	0.0	100.
15	9.4	3.4	3.1	4.8	2.6	5.4	9.4	7.7	12.5	8.8	2.6	0.9	3.4	5.1	9.9	11.1	0.0	100.
16	10.7	3.4	3.4	3.7	3.1	3.4	9.9	11.6	10.2	7.3	2.8	3.1	3.4	4.2	9.0	10.7	0.0	100.
17	10.2	3.1	5.4	3.4	2.5	4.8	9.9	10.5	11.6	5.6	2.8	2.3	3.1	4.2	9.6	11.0	0.0	100.
18	7.6	5.9	4.8	4.0	3.1	5.7	19.8	11.3	9.6	6.2	2.5	1.4	2.0	3.7	9.3	11.9	0.0	100.
19	8.2	6.8	3.4	5.6	4.8	6.5	9.6	13.6	7.3	6.8	2.0	0.8	2.5	3.4	8.8	9.9	0.0	100.
20	9.0	5.1	4.8	5.6	4.8	8.8	7.9	13.8	8.5	5.4	1.4	0.8	2.5	2.0	8.5	11.0	0.0	100.
21	10.2	4.8	3.7	5.9	4.2	7.9	9.9	12.1	9.0	5.9	1.7	0.8	2.5	3.7	7.9	9.6	0.0	100.
22	8.5	5.9	2.5	5.6	4.2	8.2	8.8	11.9	11.6	5.9	1.1	2.3	2.8	3.4	7.3	9.9	0.0	100.
23	10.2	4.8	3.1	4.8	4.8	7.1	11.0	8.8	11.3	6.5	2.3	2.5	2.5	4.0	7.6	8.8	0.0	100.
24	9.0	4.8	2.0	5.4	4.8	6.5	10.2	8.8	12.7	5.4	3.4	2.5	2.3	5.6	7.3	9.3	0.0	100.
ALL	9.7	4.2	3.1	3.8	4.0	6.9	9.4	9.0	11.3	6.4	2.9	2.1	2.8	5.3	8.9	10.3	0.0	100.

NUMBER OF OBS = 8463

Precipitation

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

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
96	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996

RAIN VERSION # 2P

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
96	1	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

MONTH OF JANUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 4
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - 0.70 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES
MAXIMUM DAILY PRECIPITATION - 0.70 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 17 HOUR 16 - 0.40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 17 HOUR 16 - 0.60 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 17 HOUR 15 - 0.70 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 17 HOUR 15 - 0.70 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 17 HOUR 15 - 0.70 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 513
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

MONTH OF JANUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	4	12	18	24	30
0.02	4	12	18	24	30
0.03	4	12	18	24	30
0.04	4	12	18	24	30
0.05	4	12	18	24	30
0.07	4	12	18	24	30
0.10	4	12	18	24	30
0.15	1	7	13	19	25
0.20	1	7	13	19	25
0.25	1	6	12	18	24
0.30	1	6	12	18	24
0.35	1	6	12	18	24
0.40	1	6	12	18	24
0.45	0	6	12	18	24
0.50	0	6	12	18	24
0.60	0	5	11	17	23
0.70	0	0	6	12	18
0.80	0	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 JAN-MAR 1996 RAIN VERSION # 2P

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
96	2	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	9.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.99	9.99	
			9.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

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 12MONT	TOTAL
96	2	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	2	29		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

MONTH OF FEBRUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 696
NUMBER OF MISSING HOURS - 4
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 29 HOUR 24 - 0.00 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 29 HOUR 19 - 0.00 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 29 HOUR 13 - 0.00 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 29 HOUR 7 - 0.00 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 29 HOUR 1 - 0.00 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 301
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

MONTH OF FEBRUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	0	0	0	0	0
0.02	0	0	0	0	0
0.03	0	0	0	0	0
0.04	0	0	0	0	0
0.05	0	0	0	0	0
0.07	0	0	0	0	0
0.10	0	0	0	0	0
0.15	0	0	0	0	0
0.20	0	0	0	0	0
0.25	0	0	0	0	0
0.30	0	0	0	0	0
0.35	0	0	0	0	0
0.40	0	0	0	0	0
0.45	0	0	0	0	0
0.50	0	0	0	0	0
0.60	0	0	0	0	0
0.70	0	0	0	0	0
0.80	0	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 JAN-MAR 1996 RAIN VERSION # 2P

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
96	3	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996

RAIN VERSION # 2P

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
96	3	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
96	3	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	3	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
96	3	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

MONTH OF MARCH

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 4
TOTAL DAYS WITH PRECIPITATION - 2
TOTAL AMOUNT OF PRECIPITATION - 0.90 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES
MAXIMUM DAILY PRECIPITATION - 0.60 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 24 HOUR 15 - 0.40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 24 HOUR 15 - 0.60 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 24 HOUR 15 - 0.60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 24 HOUR 15 - 0.60 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 24 HOUR 15 - 0.60 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 256
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

MONTH OF MARCH

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	4	19	32	44	56
0.02	4	19	32	44	56
0.03	4	19	32	44	56
0.04	4	19	32	44	56
0.05	4	19	32	44	56
0.07	4	19	32	44	56
0.10	4	19	32	44	56
0.15	3	13	25	37	49
0.20	3	13	25	37	49
0.25	1	6	17	29	41
0.30	1	6	17	29	41
0.35	1	6	12	18	24
0.40	1	6	12	18	24
0.45	0	5	11	17	23
0.50	0	5	11	17	23
0.60	0	5	11	17	23
0.70	0	0	0	0	0
0.80	0	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 JAN-MAR 1996 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2184
NUMBER OF MISSING HOURS - 4
TOTAL HOURS OF PRECIPITATION - 8
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - 1.60 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES
MAXIMUM DAILY PRECIPITATION - 0.70 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 24 HOUR 15 - 0.40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 24 HOUR 15 - 0.60 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 1 DAY 17 HOUR 15 - 0.70 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 1 DAY 17 HOUR 15 - 0.70 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 1 DAY 17 HOUR 15 - 0.70 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1070
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1996 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	8	31	50	68	86
0.02	8	31	50	68	86
0.03	8	31	50	68	86
0.04	8	31	50	68	86
0.05	8	31	50	68	86
0.07	8	31	50	68	86
0.10	8	31	50	68	86
0.15	4	20	38	56	74
0.20	4	20	38	56	74
0.25	2	12	29	47	65
0.30	2	12	29	47	65
0.35	2	12	24	36	48
0.40	2	12	24	36	48
0.45	0	11	23	35	47
0.50	0	11	23	35	47
0.60	0	10	22	34	46
0.70	0	0	6	12	18
0.80	0	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 APR-JUN 1996

RAIN VERSION # 2P

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
96	4	1	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	2	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	3	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	4	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	5	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	6	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	7	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	8	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	9	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	10	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	11	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	12	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	13	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	14	0.00 0.00	0.00 0.00	0.10 0.00	0.00 0.00	0.10 0.00	0.00 0.00	0.10 0.00	0.10 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.40
96	4	15	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	16	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996

RAIN VERSION # 2P

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
96	4	18	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	19	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	20	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	21	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	22	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	23	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	24	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	25	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	26	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	27	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	4	28	0.00 0.00	0.00 0.10	0.00 0.10	0.00 0.00	0.00 0.20	0.00 0.30	0.00 0.00	0.00 0.10	0.00 0.10	0.00 0.00	0.00 0.00	0.10 0.10	1.10
96	4	29	0.10 0.00	0.10 0.00	0.20 0.00	0.00 0.00	0.10 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.50
96	4	30	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996 RAIN VERSION # 2P

MONTH OF APRIL

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 16
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - 2.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
MAXIMUM DAILY PRECIPITATION - 1.10 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 28 HOUR 18 - 0.30 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 28 HOUR 17 - 0.70 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 28 HOUR 17 - 1.20 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 28 HOUR 12 - 1.60 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 28 HOUR 12 - 1.60 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 18
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996 RAIN VERSION # 2P

MONTH OF APRIL

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	16	34	46	58	70
0.02	16	34	46	58	70
0.03	16	34	46	58	70
0.04	16	34	46	58	70
0.05	16	34	46	58	70
0.07	16	34	46	58	70
0.10	16	34	46	58	70
0.15	3	27	39	51	63
0.20	3	27	39	51	63
0.25	1	22	34	46	58
0.30	1	22	34	46	58
0.35	0	15	28	40	52
0.40	0	15	28	40	52
0.45	0	11	20	26	32
0.50	0	11	20	26	32
0.60	0	6	18	24	30
0.70	0	5	15	21	27
0.80	0	0	14	20	26
0.90	0	0	10	16	22
1.00	0	0	9	15	21
1.10	0	0	5	12	18
1.20	0	0	2	10	16
1.30	0	0	0	9	15
1.40	0	0	0	6	12
1.50	0	0	0	5	11
1.60	0	0	0	1	7
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 APR-JUN 1996

RAIN VERSION # 2P

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
96	5	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	5	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	4	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	5	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.10	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
96	5	8	0.00	0.00	0.60	0.20	1.90	0.20	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	3.00
96	5	9	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.60	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	1.90
96	5	10	0.00	0.00	0.00	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
96	5	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
			0.00	0.00	0.00	0.10	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.40
96	5	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20
96	5	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	5	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996

RAIN VERSION # 2P

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
96	5	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	20	0.00	0.00	0.00	0.00	0.10	0.80	0.10	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
96	5	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.90	1.00
96	5	23	1.20	0.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20
96	5	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	25	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.10	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
96	5	26	0.00	0.00	0.00	0.00	0.00	0.20	0.30	0.10	0.10	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.20	0.30	0.00	0.00	0.10	1.90
96	5	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	5	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996 RAIN VERSION # 2P

MONTH OF MAY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 44
TOTAL DAYS WITH PRECIPITATION - 16
TOTAL AMOUNT OF PRECIPITATION - 16.30 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 2.20 INCHES
MAXIMUM DAILY PRECIPITATION - 3.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 14 HOUR 11 - 2.20 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 23 - 3.20 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 23 - 3.20 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 23 - 3.20 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 7 HOUR 7 - 3.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996 RAIN VERSION # 2P

MONTH OF MAY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	44	145	244	326	386
0.02	44	145	244	326	386
0.03	44	145	244	326	386
0.04	44	145	244	326	386
0.05	44	145	244	326	386
0.07	44	145	244	326	386
0.10	44	145	244	326	386
0.15	22	86	156	220	266
0.20	22	86	156	220	266
0.25	13	76	150	215	262
0.30	13	76	150	215	262
0.35	11	65	135	199	248
0.40	11	65	135	199	248
0.45	11	63	123	175	215
0.50	11	63	123	175	215
0.60	9	56	112	158	197
0.70	8	47	97	144	190
0.80	7	43	94	135	176
0.90	5	36	73	110	153
1.00	4	34	70	108	150
1.10	4	25	56	90	126
1.20	4	24	48	81	115
1.30	3	24	48	80	113
1.40	3	24	48	78	109
1.50	3	24	48	77	107
1.60	3	24	48	76	106
1.70	2	23	47	76	106
1.80	2	23	47	74	105
1.90	2	18	39	66	102
2.00	1	18	36	54	77

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

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996 RAIN VERSION # 2P

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
96	6	1	0.00	0.00	0.00	0.10	0.10	0.00	0.10	0.10	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
96	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	6	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
96	6	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.10	0.20	0.00	0.00	0.00	0.00	0.00	0.30
96	6	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	6	16	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.30
96	6	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996

RAIN VERSION # 2P

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
96	6	18	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	19	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	20	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	21	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	22	0.00 0.00	0.10 0.00	0.00 0.00	1.10 0.00	0.20 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	1.40
96	6	23	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	24	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	25	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	26	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	27	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	28	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	6	29	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.40	0.00 0.00	0.00 0.10	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.50
96	6	30	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996 RAIN VERSION # 2P

MONTH OF JUNE

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 16
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - 3.30 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.10 INCHES
MAXIMUM DAILY PRECIPITATION - 1.40 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 4 - 1.10 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 2 - 1.40 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 2 - 1.40 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 2 - 1.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 2 - 1.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996 RAIN VERSION # 2P

MONTH OF JUNE

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	16	62	105	143	179
0.02	16	62	105	143	179
0.03	16	62	105	143	179
0.04	16	62	105	143	179
0.05	16	62	105	143	179
0.07	16	62	105	143	179
0.10	16	62	105	143	179
0.15	6	38	68	98	128
0.20	6	38	68	98	128
0.25	2	21	45	73	103
0.30	2	21	45	73	103
0.35	2	14	28	40	52
0.40	2	14	28	40	52
0.45	1	10	22	34	46
0.50	1	10	22	34	46
0.60	1	6	12	18	24
0.70	1	6	12	18	24
0.80	1	6	12	18	24
0.90	1	6	12	18	24
1.00	1	6	12	18	24
1.10	1	6	12	18	24
1.20	0	6	12	18	24
1.30	0	5	11	17	23
1.40	0	3	9	15	21
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 APR-JUN 1996 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2184
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 76
TOTAL DAYS WITH PRECIPITATION - 26
TOTAL AMOUNT OF PRECIPITATION - 21.60 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 2.20 INCHES
MAXIMUM DAILY PRECIPITATION - 3.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 14 HOUR 11 - 2.20 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 7 HOUR 7 - 3.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 18
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1996 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	76	243	403	544	658
0.02	76	243	403	544	658
0.03	76	243	403	544	658
0.04	76	243	403	544	658
0.05	76	243	403	544	658
0.07	76	243	403	544	658
0.10	76	243	403	544	658
0.15	31	152	270	384	480
0.20	31	152	270	384	480
0.25	16	119	234	347	446
0.30	16	119	234	347	446
0.35	13	94	195	291	375
0.40	13	94	195	291	375
0.45	12	84	165	237	302
0.50	12	84	165	237	302
0.60	10	68	142	202	259
0.70	9	58	124	185	249
0.80	8	50	120	175	234
0.90	6	42	95	144	204
1.00	5	40	91	141	199
1.10	5	31	73	120	170
1.20	4	30	62	109	156
1.30	3	29	59	106	151
1.40	3	27	57	99	142
1.50	3	24	48	82	118
1.60	3	24	48	77	113
1.70	2	23	47	76	106
1.80	2	23	47	74	105
1.90	2	18	39	66	102
2.00	1	18	36	54	77

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-JUN 1996 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4368
NUMBER OF MISSING HOURS - 4
TOTAL HOURS OF PRECIPITATION - 84
TOTAL DAYS WITH PRECIPITATION - 29
TOTAL AMOUNT OF PRECIPITATION - 23.20 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 2.20 INCHES
MAXIMUM DAILY PRECIPITATION - 3.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 14 HOUR 11 - 2.20 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 7 HOUR 7 - 3.40 INCHES

B96

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1088
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-JUN 1996 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	84	274	453	612	744
0.02	84	274	453	612	744
0.03	84	274	453	612	744
0.04	84	274	453	612	744
0.05	84	274	453	612	744
0.07	84	274	453	612	744
0.10	84	274	453	612	744
0.15	35	172	308	440	554
0.20	35	172	308	440	554
0.25	18	131	263	394	511
0.30	18	131	263	394	511
0.35	15	106	219	327	423
0.40	15	106	219	327	423
0.45	12	95	188	272	349
0.50	12	95	188	272	349
0.60	10	78	164	236	305
0.70	9	58	130	197	267
0.80	8	50	120	175	234
0.90	6	42	95	144	204
1.00	5	40	91	141	199
1.10	5	31	73	120	170
1.20	4	30	62	109	156
1.30	3	29	59	106	151
1.40	3	27	57	99	142
1.50	3	24	48	82	118
1.60	3	24	48	77	113
1.70	2	23	47	76	106
1.80	2	23	47	74	105
1.90	2	18	39	66	102
2.00	1	18	36	54	77

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

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
96	7	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.60
96	7	4	0.50	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
96	7	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	8	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
96	7	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
96	7	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

MPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

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
96	7	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.10	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90
96	7	20	0.00	0.00	0.10	0.00	0.00	0.00	0.10	0.00	0.10	0.20	0.40	0.00	
			0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
96	7	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	28	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
96	7	29	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
96	7	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	7	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

MONTH OF JULY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 19
TOTAL DAYS WITH PRECIPITATION - 8
TOTAL AMOUNT OF PRECIPITATION - 4.90 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.80 INCHES
MAXIMUM DAILY PRECIPITATION - 1.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 17 - 0.80 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 3 HOUR 24 - 1.20 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 3 HOUR 17 - 1.30 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 17 - 1.30 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 16 - 1.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

E100

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

MONTH OF JULY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	19	64	105	141	177
0.02	19	64	105	141	177
0.03	19	64	105	141	177
0.04	19	64	105	141	177
0.05	19	64	105	141	177
0.07	19	64	105	141	177
0.10	19	64	105	141	177
0.15	8	48	90	128	164
0.20	8	48	90	128	164
0.25	7	42	85	125	161
0.30	7	42	85	125	161
0.35	6	32	62	91	115
0.40	6	32	62	91	115
0.45	4	25	50	73	91
0.50	4	25	50	73	91
0.60	2	23	48	72	90
0.70	2	23	47	71	89
0.80	1	15	33	51	63
0.90	0	10	31	49	61
1.00	0	5	14	33	47
1.10	0	4	11	21	33
1.20	0	3	10	18	30
1.30	0	0	2	9	21
1.40	0	0	0	0	7
1.50	0	0	0	0	6
1.60	0	0	0	0	6
1.70	0	0	0	0	6
1.80	0	0	0	0	6
1.90	0	0	0	0	3
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 JUL-SEP 1996 RAIN VERSION # 2P

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
96	8	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	4	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
96	8	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	8	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	8	11	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
96	8	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20
96	8	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	16	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.90	0.40	0.10	0.20	
			0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10
96	8	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

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
96	8	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.10	0.30	0.20	0.10	0.10	0.10	0.00	0.00	0.90
96	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
			0.00	0.10	0.00	0.10	0.00	0.10	0.10	0.10	0.00	0.10	0.10	0.10	0.90
96	8	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	8	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

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 - 9
TOTAL AMOUNT OF PRECIPITATION - 4.80 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.90 INCHES
MAXIMUM DAILY PRECIPITATION - 2.10 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 9 - 0.90 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 9 - 1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 4 - 2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 4 - 2.10 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 4 - 2.10 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

MONTH OF AUGUST

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	30	83	137	188	236
0.02	30	83	137	188	236
0.03	30	83	137	188	236
0.04	30	83	137	188	236
0.05	30	83	137	188	236
0.07	30	83	137	188	236
0.10	30	83	137	188	236
0.15	8	54	90	128	164
0.20	8	54	90	128	164
0.25	3	30	48	67	91
0.30	3	30	48	67	91
0.35	2	23	42	60	78
0.40	2	23	42	60	78
0.45	1	17	39	57	75
0.50	1	17	39	57	75
0.60	1	13	35	53	71
0.70	1	11	29	47	65
0.80	1	10	25	43	61
0.90	1	8	20	38	56
1.00	0	7	13	19	25
1.10	0	6	12	18	24
1.20	0	5	11	17	23
1.30	0	5	11	17	23
1.40	0	5	11	17	23
1.50	0	3	11	17	23
1.60	0	3	10	16	22
1.70	0	2	9	15	21
1.80	0	2	9	15	21
1.90	0	1	8	14	20
2.00	0	0	4	10	16

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

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

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
96	9	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.10	0.00	0.00	0.30
96	9	8	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
96	9	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	9	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

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
96	9	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	19	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	
			0.00	0.10	0.20	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.60
96	9	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	23	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	9	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.20	0.40
96	9	26	0.20	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
96	9	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	9	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

MONTH OF SEPTEMBR

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 19
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - 2.30 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.20 INCHES
MAXIMUM DAILY PRECIPITATION - 0.60 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 26 HOUR 2 - 0.20 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 24 - 0.70 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 18 - 0.80 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 10 - 0.90 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 10 - 0.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

MONTH OF SEPTEMBR

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	19	71	103	133	163
0.02	19	71	103	133	163
0.03	19	71	103	133	163
0.04	19	71	103	133	163
0.05	19	71	103	133	163
0.07	19	71	103	133	163
0.10	19	71	103	133	163
0.15	4	31	55	75	93
0.20	4	31	55	75	93
0.25	0	18	42	60	78
0.30	0	18	42	60	78
0.35	0	6	32	51	69
0.40	0	6	32	51	69
0.45	0	5	21	41	59
0.50	0	5	21	41	59
0.60	0	4	10	27	45
0.70	0	3	10	16	22
0.80	0	0	3	10	16
0.90	0	0	0	1	7
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 JUL-SEP 1996 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 68
TOTAL DAYS WITH PRECIPITATION - 24
TOTAL AMOUNT OF PRECIPITATION - 12.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.90 INCHES
MAXIMUM DAILY PRECIPITATION - 2.10 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 9 - 0.90 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 9 - 1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 4 - 2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 4 - 2.10 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 4 - 2.10 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1996 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	68	218	345	462	576
0.02	68	218	345	462	576
0.03	68	218	345	462	576
0.04	68	218	345	462	576
0.05	68	218	345	462	576
0.07	68	218	345	462	576
0.10	68	218	345	462	576
0.15	20	133	235	331	421
0.20	20	133	235	331	421
0.25	10	90	175	252	330
0.30	10	90	175	252	330
0.35	8	61	136	202	262
0.40	8	61	136	202	262
0.45	5	47	110	171	225
0.50	5	47	110	171	225
0.60	3	40	93	152	206
0.70	3	37	86	134	176
0.80	2	25	61	104	140
0.90	1	18	51	88	124
1.00	0	12	27	52	72
1.10	0	10	23	39	57
1.20	0	8	21	35	53
1.30	0	5	13	26	44
1.40	0	5	11	17	30
1.50	0	3	11	17	29
1.60	0	3	10	16	28
1.70	0	2	9	15	27
1.80	0	2	9	15	27
1.90	0	1	8	14	23
2.00	0	0	4	10	16

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

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
96	10	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
96	10	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	10	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

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
96	10	18	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	19	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	20	0.00 0.00	0.00 0.00	0.10 0.00	0.10 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.20
96	10	21	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	22	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.10	0.10 0.10	0.10 0.00	0.00 0.10	0.00 0.30	0.10 0.10	0.00 0.40	0.00 0.00	0.10 0.00	1.50
96	10	23	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	24	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	25	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	26	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	27	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	28	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	29	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.40 0.00	0.10 0.00	0.00 0.00	0.10 0.00	0.00 0.00	0.00 0.00	0.10 0.00	0.00 0.00	0.70
96	10	30	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
96	10	31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

MONTH OF OCTOBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 18
TOTAL DAYS WITH PRECIPITATION - 4
TOTAL AMOUNT OF PRECIPITATION - 2.60 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES
MAXIMUM DAILY PRECIPITATION - 1.50 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 29 HOUR 5 - 0.40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 17 - 1.00 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 12 - 1.20 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 5 - 1.50 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 5 - 1.50 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

MONTH OF OCTOBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	18	49	73	97	121
0.02	18	49	73	97	121
0.03	18	49	73	97	121
0.04	18	49	73	97	121
0.05	18	49	73	97	121
0.07	18	49	73	97	121
0.10	18	49	73	97	121
0.15	3	40	65	89	113
0.20	3	40	65	89	113
0.25	3	19	38	50	62
0.30	3	19	38	50	62
0.35	2	14	34	46	58
0.40	2	14	34	46	58
0.45	0	12	27	40	52
0.50	0	12	27	40	52
0.60	0	9	21	36	48
0.70	0	5	18	31	43
0.80	0	4	12	18	24
0.90	0	3	9	17	23
1.00	0	1	7	15	21
1.10	0	0	6	13	19
1.20	0	0	2	8	14
1.30	0	0	0	5	11
1.40	0	0	0	2	8
1.50	0	0	0	1	7
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 OCT-DEC 1996 RAIN VERSION # 2P

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
96	11	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	11	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	11	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.10
96	11	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	11	16	0.00	0.00	0.10	0.00	0.10	0.00	0.10	0.10	0.20	0.20	0.00	0.00	
			0.30	0.20	0.00	0.10	0.20	0.00	0.10	0.10	0.00	0.10	0.00	0.00	1.90
96	11	17	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996

RAIN VERSION # 2P

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
96	11	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	11	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
96	11	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	11	29	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.10	0.00	
			0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
96	11	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

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 - 9
TOTAL AMOUNT OF PRECIPITATION - 3.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
MAXIMUM DAILY PRECIPITATION - 1.90 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 13 - 0.30 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 9 - 0.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 9 - 1.40 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 5 - 1.80 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 5 - 1.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 281
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 2
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - 0.20 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.20 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

MONTH OF NOVEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	24	87	137	178	213
0.02	24	87	137	178	213
0.03	24	87	137	178	213
0.04	24	87	137	178	213
0.05	24	87	137	178	213
0.07	24	87	137	178	213
0.10	24	87	137	178	213
0.15	5	25	44	62	81
0.20	5	25	44	62	81
0.25	1	18	30	44	57
0.30	1	18	30	44	57
0.35	0	15	23	30	37
0.40	0	15	23	30	37
0.45	0	14	20	27	35
0.50	0	14	20	27	35
0.60	0	10	20	26	32
0.70	0	6	16	25	32
0.80	0	4	16	22	29
0.90	0	1	12	21	28
1.00	0	0	12	18	24
1.10	0	0	12	18	24
1.20	0	0	8	17	24
1.30	0	0	6	14	20
1.40	0	0	4	11	20
1.50	0	0	0	10	17
1.60	0	0	0	9	16
1.70	0	0	0	6	14
1.80	0	0	0	2	11
1.90	0	0	0	0	6
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 OCT-DEC 1996 RAIN VERSION # 2P

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
96	12	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

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
96	12	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	12	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

MONTH OF DECEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 24 - 0.00 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 19 - 0.00 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 13 - 0.00 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 7 - 0.00 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 1 - 0.00 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 428
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

MONTH OF DECEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	0	0	0	0	0
0.02	0	0	0	0	0
0.03	0	0	0	0	0
0.04	0	0	0	0	0
0.05	0	0	0	0	0
0.07	0	0	0	0	0
0.10	0	0	0	0	0
0.15	0	0	0	0	0
0.20	0	0	0	0	0
0.25	0	0	0	0	0
0.30	0	0	0	0	0
0.35	0	0	0	0	0
0.40	0	0	0	0	0
0.45	0	0	0	0	0
0.50	0	0	0	0	0
0.60	0	0	0	0	0
0.70	0	0	0	0	0
0.80	0	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 OCT-DEC 1996 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 42
TOTAL DAYS WITH PRECIPITATION - 13
TOTAL AMOUNT OF PRECIPITATION - 5.60 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES
MAXIMUM DAILY PRECIPITATION - 1.90 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PER TATION STARTS MONTH 10 DAY 29 HOUR 5 - 0.40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERC ATION STARTS MONTH 10 DAY 22 HOUR 17 - 1.00 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIP TION STARTS MONTH 11 DAY 16 HOUR 9 - 1.40 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIP ATION STARTS MONTH 11 DAY 16 HOUR 5 - 1.80 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPI ATION STARTS MONTH 11 DAY 16 HOUR 5 - 1.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 710
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 2
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - 0.20 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.20 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1996 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	42	136	210	275	334
0.02	42	136	210	275	334
0.03	42	136	210	275	334
0.04	42	136	210	275	334
0.05	42	136	210	275	334
0.07	42	136	210	275	334
0.10	42	136	210	275	334
0.15	8	65	109	151	194
0.20	8	65	109	151	194
0.25	4	37	68	94	119
0.30	4	37	68	94	119
0.35	2	29	57	76	95
0.40	2	29	57	76	95
0.45	0	26	47	67	87
0.50	0	26	47	67	87
0.60	0	19	41	62	80
0.70	0	11	30	56	75
0.80	0	8	26	40	53
0.90	0	4	21	38	51
1.00	0	1	19	33	45
1.10	0	0	18	31	43
1.20	0	0	10	25	38
1.30	0	0	6	19	31
1.40	0	0	4	13	28
1.50	0	0	0	11	24
1.60	0	0	0	9	16
1.70	0	0	0	6	14
1.80	0	0	0	2	11
1.90	0	0	0	0	6
2.00	0	0	0	0	0

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-DEC 1996 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4416
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 110
TOTAL DAYS WITH PRECIPITATION - 37
TOTAL AMOUNT OF PRECIPITATION - 17.60 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.90 INCHES
MAXIMUM DAILY PRECIPITATION - 2.10 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 9 - 0.90 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 9 - 1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 4 - 2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 4 - 2.10 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 16 HOUR 4 - 2.10 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 710
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 2
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - 0.20 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.20 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-DEC 1996 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	110	354	555	737	910
0.02	110	354	555	737	910
0.03	110	354	555	737	910
0.04	110	354	555	737	910
0.05	110	354	555	737	910
0.07	110	354	555	737	910
0.10	110	354	555	737	910
0.15	28	198	344	482	615
0.20	28	198	344	482	615
0.25	14	127	243	346	449
0.30	14	127	243	346	449
0.35	10	90	193	278	357
0.40	10	90	193	278	357
0.45	5	73	157	238	312
0.50	5	73	157	238	312
0.60	3	59	134	214	286
0.70	3	48	120	190	251
0.80	2	33	89	144	193
0.90	1	22	72	126	175
1.00	0	13	46	85	117
1.10	0	10	41	70	100
1.20	0	8	31	60	91
1.30	0	5	19	45	75
1.40	0	5	15	30	58
1.50	0	3	11	28	53
1.60	0	3	10	25	44
1.70	0	2	9	21	41
1.80	0	2	9	17	38
1.90	0	1	8	14	29
2.00	0	0	4	10	16

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-DEC 1996 RAIN VERSION # 2P

ANNUAL INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 8784
NUMBER OF MISSING HOURS - 4
TOTAL HOURS OF PRECIPITATION - 194
TOTAL DAYS WITH PRECIPITATION - 66
TOTAL AMOUNT OF PRECIPITATION - 40.80 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 2.20 INCHES
MAXIMUM DAILY PRECIPITATION - 3.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 14 HOUR 11 - 2.20 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 23 - 3.20 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 7 HOUR 7 - 3.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1798
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 2
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - 0.20 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.20 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-DEC 1996 RAIN VERSION # 2P

ANNUAL INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	194	628	1008	1349	1654
0.02	194	628	1008	1349	1654
0.03	194	628	1008	1349	1654
0.04	194	628	1008	1349	1654
0.05	194	628	1008	1349	1654
0.07	194	628	1008	1349	1654
0.10	194	628	1008	1349	1654
0.15	63	370	652	922	1169
0.20	63	370	652	922	1169
0.25	32	258	506	740	960
0.30	32	258	506	740	960
0.35	25	196	412	605	780
0.40	25	196	412	605	780
0.45	17	168	345	510	661
0.50	17	168	345	510	661
0.60	13	137	298	450	591
0.70	12	106	250	387	518
0.80	10	83	209	319	427
0.90	7	64	167	270	379
1.00	5	53	137	226	316
1.10	5	41	114	190	270
1.20	4	38	93	169	247
1.30	3	34	78	151	226
1.40	3	32	72	129	200
1.50	3	27	59	110	171
1.60	3	27	58	102	157
1.70	2	25	56	97	147
1.80	2	25	56	91	143
1.90	2	19	47	80	131
2.00	1	18	40	64	93

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. *

* The 10 meter wind direction values for the months of July, August and September were taken from the 10 meter back-up tower.

JFDs of 10-Meter Wind vs. Delta T

January-March 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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	3	2	1	0	2	1	0	2	0	0	0	0	0	0	2	0	13
7.51-12.50	16	0	0	0	0	1	3	5	0	3	0	0	0	1	1	6	36
12.51-18.50	5	1	0	0	0	0	5	2	16	0	0	0	0	2	5	13	49
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	15
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	24	3	1	0	2	2	8	9	16	3	0	0	0	3	19	24	114

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	1	0	0	0	0	0	0	0	1
3.51- 7.50	5	0	1	1	0	3	3	1	1	4	2	1	0	0	0	0	22
7.51-12.50	4	5	0	0	0	2	3	5	4	1	0	0	0	2	2	3	31
12.51-18.50	7	0	0	0	0	0	2	1	5	1	0	0	0	5	8	5	34
18.51-24.00	0	0	0	0	0	0	0	0	2	0	0	0	0	0	5	1	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3
TOTAL	16	5	1	1	0	5	8	7	13	6	2	1	0	7	17	10	99

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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	1	0	0	0	0	0	0	0	0	2
3.51- 7.50	3	1	1	3	0	3	6	2	1	2	4	1	3	5	0	1	36
7.51-12.50	11	2	1	2	6	5	4	6	2	9	0	0	1	9	9	7	74
12.51-18.50	0	0	0	0	0	2	0	1	1	4	0	0	0	2	6	5	21
18.51-24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	1	6	2	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	6
TOTAL	14	3	2	5	6	10	12	10	4	15	4	1	4	17	25	17	149

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	0	1	1	3	0	1	0	3	2	8	1	2	0	2	1	2	27
3.51- 7.50	14	9	12	14	18	33	21	6	8	7	6	12	6	28	28	18	240
7.51-12.50	55	29	2	2	8	20	24	24	14	13	2	4	11	24	91	53	376
12.51-18.50	11	1	9	0	0	8	6	6	13	7	0	6	11	24	58	47	192
18.51-24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	8	19	14	42
>24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	15	10	26
TOTAL	80	40	15	19	26	62	53	39	37	35	9	18	28	86	212	144	903

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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	5	6	0	1	0	1	4	7	11	2	3	3	1	10	7	8	69
3.51- 7.50	24	8	10	5	12	14	24	36	19	14	4	8	16	20	28	11	253
7.51-12.50	2	0	0	0	0	3	9	28	30	16	9	10	2	17	18	7	151
12.51-18.50	0	0	0	0	0	0	3	7	8	5	0	7	3	8	3	0	44
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	1	13
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	31	14	10	6	12	18	40	78	68	37	16	28	22	56	67	27	530

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																	0
1.01- 3.50	7	1	3	1	0	1	2	12	17	6	2	7	3	2	4	10	78
3.51- 7.50	3	0	0	0	0	2	11	9	14	12	5	4	10	1	3	3	77
7.51-12.50	0	0	0	0	0	0	1	0	3	6	5	11	2	1	0	0	29
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	1	3	1	0	3	14	21	34	24	12	22	15	4	7	13	184

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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	1	5	2	0	0	0	12	9	6	8	2	2	1	2	1	2	53
3.51- 7.50	0	0	0	0	0	1	0	0	5	2	0	2	0	0	0	0	10
7.51-12.50	0	0	0	0	0	0	0	0	0	2	2	1	1	0	0	0	6
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	1	5	2	0	0	1	12	9	11	12	4	5	2	2	1	2	69

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																	0
1.01- 3.50	13	13	6	5	0	3	19	32	37	24	8	14	5	16	13	22	230
3.51- 7.50	52	20	25	23	32	57	65	56	48	41	21	28	35	54	61	33	651
7.51-12.50	88	36	3	4	14	31	44	68	53	50	18	26	17	54	121	76	703
12.51-18.50	23	2	0	0	0	10	16	17	43	17	0	7	14	41	80	70	340
18.51-24.00	0	0	0	0	0	0	2	0	2	0	0	0	0	10	51	23	88
>24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	22	13	36
TOTAL	176	71	34	32	46	101	147	173	183	132	47	75	71	175	348	237	2048

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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: 2048

TOTAL NUMBER OF MISSING OBSERVATIONS: 136

PERCENT DATA RECOVERY FOR THIS PERIOD: 93.8 %

MEAN WIND SPEED FOR THIS PERIOD: 9.3 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
5.57	4.83	7.28	44.09	25.88	8.98	3.37

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	24	3	1	0	2	2	8	9	16	3	0	0	0	3	19	24	0
B	16	5	1	1	0	5	8	7	13	6	2	1	0	7	17	10	0
C	14	3	2	5	6	10	12	10	4	15	4	1	4	17	25	17	0
D	80	40	15	19	26	62	53	39	37	35	9	18	28	86	212	144	0
E	31	14	10	6	12	18	40	78	68	37	16	28	22	56	67	27	0
F	10	1	3	1	0	3	14	21	34	24	12	22	15	4	7	13	0
G	1	5	2	0	0	1	12	9	11	12	4	5	2	2	1	2	0
TOTAL	176	71	34	32	46	101	147	173	183	132	47	75	71	175	348	237	0

JFDs of 10-Meter Wind vs. Delta T

April-June 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3.51- 7.50	1	3	1	0	1	2	1	5	1	0	0	0	0	0	0	0	15
7.51-12.50	5	2	1	9	2	1	3	6	5	1	0	0	0	3	2	4	44
12.51-18.50	0	0	0	0	0	0	0	0	8	7	0	0	0	2	4	2	23
18.51-24.00	2	0	0	0	0	0	0	0	2	0	1	0	1	6	2	0	14
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
TOTAL	8	7	4	9	3	3	4	11	16	8	1	0	1	13	8	6	102

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	1	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	5
3.51- 7.50	3	4	2	2	3	4	1	2	0	0	0	0	0	0	1	1	23
7.51-12.50	1	0	0	0	2	0	2	1	1	0	0	0	1	0	3	5	16
12.51-18.50	0	0	0	0	0	0	0	0	1	2	0	0	0	1	3	2	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	5	6	2	2	5	4	3	4	2	3	0	1	2	2	8	8	57

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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	0	0	0	0	0	0	0	1	0	1	2
3.51- 7.50	2	5	1	2	0	1	4	1	3	1	0	0	0	1	1	5	27
7.51-12.50	2	0	1	1	1	1	1	1	8	2	0	0	0	1	2	3	24
12.51-18.50	0	0	0	0	0	0	0	0	1	2	0	0	1	2	4	2	12
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	4	5	2	3	1	2	5	2	12	5	0	0	3	5	10	11	70

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	1	3	2	1	4	1	1	2	1	1	1	0	2	0	1	22
3.51- 7.50	4	9	3	11	5	9	9	3	1	0	3	2	2	0	2	16	79
7.51-12.50	4	6	0	5	12	3	7	6	7	2	1	0	0	6	8	12	79
12.51-18.50	0	0	0	0	0	0	0	0	2	4	0	0	1	1	9	15	32
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	1	6	9	17
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	1	7
TOTAL	9	16	6	18	18	16	17	10	12	8	5	3	3	11	30	54	236

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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	9	7	3	1	1	3	1	3	4	1	5	0	1	1	4	8	52
3.51- 7.50	5	0	3	7	1	2	3	3	2	3	1	0	0	0	3	2	35
7.51-12.50	0	0	0	0	1	2	4	15	16	7	0	2	1	0	2	0	50
12.51-18.50	0	0	0	0	0	0	0	1	5	8	0	0	0	0	0	0	14
18.51-24.00	0	0	0	0	0	0	0	0	0	2	0	0	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	14	7	6	8	3	7	8	22	27	21	6	2	2	1	9	10	153

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	12	3	0	0	0	0	2	2	11	3	2	1	1	1	7	13	58
3.51- 7.50	0	0	3	1	0	1	3	1	0	1	0	1	0	0	0	2	13
7.51-12.50	0	0	0	0	0	0	1	0	0	1	0	0	3	0	0	0	5
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	12	3	3	1	0	1	6	3	11	5	2	2	4	1	7	15	77

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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	1	0	0	0	0	1	0	0	2	1	1	1	0	2	0	3	12
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	1	1	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	1	0	0	0	0	1	0	0	2	1	1	1	1	3	0	4	15

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																	1
1.01- 3.50	24	15	8	3	2	8	4	7	19	7	9	3	2	7	11	26	155
3.51- 7.50	15	21	13	23	10	19	21	15	7	5	4	3	2	1	7	27	193
7.51-12.50	12	8	2	15	18	7	18	29	37	13	1	2	6	11	17	24	220
12.51-18.50	0	0	0	0	0	0	0	1	17	23	0	0	2	6	20	21	90
18.51-24.00	2	0	0	0	0	0	0	0	2	3	1	1	4	7	11	9	40
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	1	11
TOTAL	53	44	23	41	30	34	43	52	82	51	15	9	16	36	72	108	710

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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: 710

TOTAL NUMBER OF MISSING OBSERVATIONS: 1474

PERCENT DATA RECOVERY FOR THIS PERIOD: 32.5 %

MEAN WIND SPEED FOR THIS PERIOD: 8.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
14.37	8.03	9.86	33.24	21.55	10.85	2.11

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	8	7	4	9	3	3	4	11	16	8	1	0	1	13	8	6	0
B	5	6	2	2	5	4	3	4	2	3	0	1	2	2	8	8	0
C	4	5	2	3	1	2	5	2	12	5	0	0	3	5	10	11	0
D	9	16	6	18	18	16	17	10	12	8	5	3	3	11	30	54	0
E	14	7	6	8	3	7	8	22	27	21	6	2	2	1	9	10	0
F	12	3	3	1	0	1	6	3	11	5	2	2	4	1	7	15	1
G	1	0	0	0	0	1	0	0	2	1	1	1	1	3	0	4	0
TOTAL	53	44	23	41	30	34	43	52	82	51	15	9	16	36	72	108	1

JFDs of 10-Meter Wind vs. Delta T

January-June 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3.51- 7.50	4	5	2	0	3	3	1	7	1	0	0	0	0	0	2	0	28
7.51-12.50	21	2	1	9	2	2	6	11	5	4	0	0	0	4	3	10	80
12.51-18.50	5	1	0	0	0	0	5	2	24	7	0	0	0	4	9	15	72
18.51-24.00	2	0	0	0	0	0	0	0	2	0	1	0	1	6	12	5	29
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
TOTAL	32	10	5	9	5	5	12	20	32	11	1	0	1	16	27	30	216

B144

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	1	2	0	0	0	0	0	1	1	1	0	0	0	0	0	0	6
3.51- 7.50	8	4	3	3	3	7	4	3	1	4	2	1	0	0	1	1	45
7.51-12.50	5	5	0	0	2	2	5	6	5	1	0	0	1	2	5	8	47
12.51-18.50	7	0	0	0	0	0	2	1	6	3	0	0	0	6	11	7	43
18.51-24.00	0	0	0	0	0	0	0	0	2	0	0	1	1	0	6	1	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	4
TOTAL	21	11	3	3	5	9	11	11	15	9	2	2	2	9	25	18	156

PROGRAM: JFD VERSION: 5F
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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	1	0	0	0	0	0	1	0	1	4
3.51- 7.50	5	6	2	5	0	4	10	3	4	3	4	1	3	6	1	6	63
7.51-12.50	13	2	2	3	7	6	5	7	10	11	0	0	1	10	11	10	98
12.51-18.50	0	0	0	0	0	2	0	1	2	6	0	0	1	4	10	7	33
18.51-24.00	0	0	0	0	0	0	1	0	0	0	0	0	2	1	8	2	14
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	7
TOTAL	18	8	4	8	7	12	17	12	16	20	4	1	7	22	35	28	219

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	2	4	5	1	5	1	4	4	9	2	3	0	4	1	3	49
3.51- 7.50	18	18	15	25	23	42	30	9	9	7	9	14	8	28	30	34	319
7.51-12.50	59	35	2	7	20	23	31	30	21	15	3	4	11	30	99	65	455
12.51-18.50	11	1	0	0	0	8	6	6	15	11	0	0	12	25	67	62	224
18.51-24.00	0	0	0	0	0	0	1	0	0	1	0	0	0	9	25	23	59
>24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	1	20	11	33
TOTAL	89	56	21	37	44	78	70	49	49	43	14	21	31	97	242	198	1139

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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	14	13	3	2	1	4	5	10	15	3	8	3	2	11	11	16	121
3.51- 7.50	29	8	13	12	13	16	27	39	21	17	5	8	16	20	31	13	288
7.51-12.50	2	0	0	0	1	5	13	43	46	23	9	12	3	17	20	7	201
12.51-18.50	0	0	0	0	0	0	3	8	13	13	6	7	3	8	3	0	58
18.51-24.00	0	0	0	0	0	0	0	0	0	2	0	0	0	1	11	1	15
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	45	21	16	14	15	25	48	100	95	58	22	30	24	57	76	37	683

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	19	4	3	1	0	1	4	14	28	9	4	8	4	3	11	23	136
3.51- 7.50	3	0	3	1	0	3	14	10	14	13	5	5	10	1	3	5	90
7.51-12.50	0	0	0	0	0	0	2	0	3	7	5	11	5	1	0	0	34
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	22	4	6	2	0	4	20	24	45	29	14	24	19	5	14	28	261

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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	2	5	2	0	0	1	12	9	8	9	3	3	1	4	1	5	65
3.51- 7.50	0	0	0	0	0	1	0	0	5	2	0	2	0	0	0	1	11
7.51-12.50	0	0	0	0	0	0	0	0	0	2	2	1	2	1	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	2	5	2	0	0	2	12	9	13	13	5	6	3	5	1	6	84

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																	1
1.01- 3.50	37	28	14	8	2	11	23	39	56	31	17	17	7	23	24	48	385
3.51- 7.50	67	41	38	46	42	76	86	71	55	46	25	31	37	55	68	60	844
7.51-12.50	100	44	5	19	32	38	62	97	90	63	19	28	23	65	138	100	923
12.51-18.50	23	2	0	0	0	10	16	18	60	40	0	7	16	47	100	91	430
18.51-24.00	2	0	0	0	0	0	2	0	4	3	1	1	4	17	62	32	128
>24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	4	28	14	47
TOTAL	229	115	57	73	76	135	190	225	265	183	62	84	87	211	420	345	2758

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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: 4368

TOTAL NUMBER OF VALID OBSERVATIONS: 2758

TOTAL NUMBER OF MISSING OBSERVATIONS: 1610

PERCENT DATA RECOVERY FOR THIS PERIOD: 63.1 %

MEAN WIND SPEED FOR THIS PERIOD: 9.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
7.83	5.66	7.94	41.30	24.76	9.46	3.05

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	32	10	5	9	5	5	12	20	32	11	1	0	1	16	27	30	0
B	21	11	3	3	5	9	11	11	15	9	2	2	2	9	25	18	0
C	18	8	4	8	7	12	17	12	16	20	4	1	7	22	35	28	0
D	89	56	21	37	44	78	70	49	49	43	14	21	31	97	242	198	0
E	45	21	16	14	15	25	48	100	95	58	22	30	24	57	76	37	0
F	22	4	6	2	0	4	20	24	45	29	14	24	19	5	14	28	1
G	2	5	2	0	0	2	12	9	13	13	5	6	3	5	1	6	0
TOTAL	229	115	57	73	76	135	190	225	265	183	62	84	87	211	420	345	1

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

January-June 1996

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

January-June 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	1	1	A	A	C	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	C	D
96	1	2	D	D	D	C	C	C	C	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D
96	1	3	D	D	D	E	E	E	E	D	D	D	D	D	C	D	D	D	D	D	D	D	C	C	C	C
96	1	4	C	C	C	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D
96	1	5	D	D	D	D	D	D	D	D	D	D	D	C	B	C	C	D	D	E	E	E	E	E	D	D
96	1	6	D	D	D	D	D	D	E	E	D	D	D	D	C	D	D	D	D	E	E	E	E	E	F	F
96	1	7	F	F	E	E	E	F	G	F	F	D	D	D	D	D	E	D	D	E	E	F	F	F	F	F
96	1	8	E	F	F	F	F	F	E	E	F	D	D	D	D	D	D	D	E	E	E	E	E	E	E	F
96	1	9	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	E	E	F	G	G	G	G	G
96	1	10	G	F	F	F	E	D	D	C	C	D	D	D	C	D	D	D	D	D	D	D	D	B	C	E
96	1	11	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G	G
96	1	12	F	E	E	E	E	E	E	F	E	E	D	D	D	D	D	D	E	F	F	G	G	F	G	F
96	1	13	F	G	G	G	G	G	G	G	F	E	E	D	D	D	D	E	F	F	G	G	G	G	G	G
96	1	14	F	F	F	F	G	G	G	G	G	F	D	B	A	A	C	B	D	D	D	D	D	D	D	D
96	1	15	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	C	D	D	D	D	C
96	1	16	B	B	-	-	-	-	-	-	-	-	-	-	C	C	D	D	D	E	E	E	E	E	E	F
96	1	17	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C
96	1	18	C	C	D	D	D	D	D	D	D	D	B	B	A	B	C	D	D	D	D	D	D	D	D	D
96	1	19	D	D	D	D	D	D	D	D	D	D	D	B	C	C	C	D	D	D	D	D	D	D	D	D
96	1	20	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	E	E	E	E	E	E
96	1	21	E	E	E	E	E	E	E	E	E	D	D	D	D	D	E	E	E	E	E	E	E	E	E	E
96	1	22	E	E	E	F	F	F	F	C	A	A	A	B	B	C	C	D	D	D	D	D	D	D	D	D
96	1	23	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	1	24	E	E	E	E	E	D	E	E	E	D	D	D	D	C	D	D	D	E	E	D	D	D	D	D
96	1	25	D	D	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	1	26	D	D	D	D	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	D	D	D	D	D
96	1	27	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	D
96	1	28	D	D	E	E	E	E	E	E	E	D	D	D	D	D	D	E	E	F	F	G	-	-	-	D
96	1	29	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D
96	1	30	D	D	D	D	D	D	D	D	D	D	C	B	C	C	C	D	D	D	D	D	E	E	E	E
96	1	31	E	E	E	F	E	F	F	F	E	D	C	D	D	D	D	D	D	E	E	E	E	E	E	E
96	2	1	E	E	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	F	F	E	D	D	D
96	2	2	D	D	D	D	D	D	D	D	D	D	D	C	B	B	D	D	D	D	D	D	E	E	E	E
96	2	3	F	F	G	G	G	F	F	F	E	D	D	D	C	D	D	D	D	E	E	E	F	G	G	G
96	2	4	G	G	F	F	G	G	G	F	F	D	D	D	B	C	D	D	D	E	E	E	E	E	E	D
96	2	5	D	E	D	D	E	E	E	F	F	E	D	D	C	C	D	C	D	D	D	D	E	E	E	E
96	2	6	E	E	E	E	F	E	E	E	E	D	D	D	D	D	E	E	E	-	E	E	E	E	E	E
96	2	7	E	E	E	E	E	E	E	E	E	E	-	-	-	D	D	E	F	F	G	F	F	G	F	F
96	2	8	F	F	F	F	E	F	F	E	E	E	D	D	D	D	D	D	D	E	F	G	G	G	G	G
96	2	9	G	F	F	F	F	G	G	G	F	F	E	D	D	D	D	D	D	E	F	F	F	F	E	E
96	2	10	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
96	2	11	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
96	2	12	E	E	E	E	E	E	E	D	D	D	D	C	D	C	D	D	D	E	E	F	F	G	F	F
96	2	13	F	F	E	E	E	E	F	E	E	D	D	D	D	D	D	D	E	E	F	F	E	E	E	E
96	2	14	E	E	E	E	E	E	G	G	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	2	15	D	D	D	D	E	E	E	E	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D
96	2	16	D	D	D	D	D	D	E	E	D	D	D	C	C	A	C	B	D	D	E	E	E	E	E	E
96	2	17	E	E	E	E	E	E	E	E	D	D	D	C	B	A	A	B	D	D	E	E	E	D	E	D
96	2	18	D	D	D	D	D	D	D	D	D	C	B	A	B	B	C	B	C	E	E	F	F	F	F	E
96	2	19	F	F	F	F	E	F	F	F	E	D	D	D	D	C	C	D	E	F	F	F	F	F	F	F
96	2	20	E	E	E	E	E	E	E	E	E	D	A	A	A	A	B	B	C	E	E	E	E	E	E	E
96	2	21	E	E	E	D	D	D	D	D	D	D	C	D	C	C	D	C	D	D	D	D	D	D	E	D
96	2	22	D	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	2	23	-	-	-	-	-	-	-	D	D	D	D	D	C	C	C	D	D	E	E	F	F	F	F	F
96	2	24	F	F	F	F	F	F	G	G	E	D	D	D	D	C	C	C	D	E	F	F	F	E	E	F
96	2	25	F	E	E	E	E	F	E	E	E	E	D	C	D	C	D	E	E	F	E	F	E	E	D	D
96	2	26	D	D	D	D	D	D	D	D	D	D	C	C	B	D	D	D	D	D	D	D	D	D	D	D
96	2	27	D	D	D	D	D	D	D	D	D	C	C	B	C	C	C	C	D	D	D	D	D	D	D	D
96	2	28	D	D	D	D	D	D	D	D	D	B	B	A	A	B	A	B	C	D	D	D	D	D	D	D
96	2	29	D	D	D	D	D	E	E	D	D	D	C	B	D	C	B	C	D	D	E	E	E	E	E	E
96	3	1	E	E	E	E	E	E	E	E	D	D	D	D	C	B	B	D	D	D	E	F	E	D	D	D
96	3	2	D	E	E	E	E	D	E	D	D	C	B	A	A	A	A	B	C	D	D	E	E	E	E	E
96	3	3	E	D	D	D	D	D	D	D	D	D	C	B	B	A	A	C	D	E	E	E	E	E	E	E
96	3	4	D	D	D	D	D	D	D	D	D	D	C	A	C	B	C	D	E	E	E	E	E	E	E	E
96	3	5	E	D	D	D	D	D	D	D	D	C	B	B	B	B	C	C	D	D	D	D	D	D	D	D
96	3	6	D	C	C	C	B	D	D	D	D	B	A	B	A	A	A	B	D	D	D	D	D	D	D	D
96	3	7	D	D	D	D	D	D	D	D	C	A	A	A	A	A	A	A	C	D	D	D	D	D	D	D
96	3	8	D	D	D	D	D	D	D	D	C	B	B	A	B	A	B	B	C	D	E	E	E	E	E	E
96	3	9	E	E	E	E	E	E	F	D	D	C	C	B	C	B	A	B	C	D	F	F	E	E	E	E
96	3	10	E	E	E	E	E	E	E	D	D	B	A	A	A	A	A	A	D	D	E	E	E	E	E	E
96	3	11	E	E	E	E	E	E	E	D	D	B	A	A	A	A	A	A	C	D	E	E	E	E	E	E
96	3	12	E	E	E	E	E	F	F	E	D	B	A	A	A	A	A	A	B	D	F	F	F	F	F	F
96	3	13	G	G	F	F	G	G	-	-	-	D	B	B	A	C	A	B	C	D	-	-	-	-	-	-
96	3	14	-	-	-	-	-	E	D	D	D	D	B	A	A	A	B	D	D	D	D	E	E	E	E	E
96	3	15	E	E	F	G	F	F	F	E	D	C	A	A	A	A	A	A	B	D	E	F	F	F	E	E
96	3	16	E	E	E	E	E	E	E	E	D	D	B	B	A	D	D	D	D	D	D	D	E	E	E	E
96	3	17	E	E	D	E	D	E	E	E	D	D	C	A	A	B	A	A	D	D	E	F	F	G	F	F
96	3	18	F	G	G	G	G	F	E	D	D	A	A	A	A	A	A	A	B	D	D	D	E	D	D	D
96	3	19	D	D	D	D	D	D	D	D	D	C	A	A	A	A	A	B	D	D	D	D	B	D	D	D
96	3	20	D	D	D	D	D	D	D	D	B	A	-	-	-	-	-	A	B	D	E	E	F	E	E	E
96	3	21	E	E	E	E	E	F	E	D	C	A	B	A	A	A	A	B	C	D	D	E	F	F	F	-
96	3	22	-	-	-	-	-	-	-	-	-	D	C	B	A	C	B	B	C	D	D	E	E	E	E	E
96	3	23	E	D	D	E	D	D	D	D	D	D	D	D	C	D	D	C	C	D	D	D	D	E	E	F
96	3	24	E	E	E	E	E	D	E	D	D	D	B	B	D	D	-	-	-	-	-	-	-	-	-	-
96	3	25	-	-	-	-	-	-	-	-	-	-	-	A	A	B	B	B	D	D	D	D	D	D	E	E
96	3	26	E	E	E	E	E	F	E	D	D	D	B	C	B	C	A	A	A	C	D	E	E	E	E	E
96	3	27	E	E	E	E	E	E	E	D	D	C	B	A	A	A	A	B	D	D	D	D	D	D	D	D
96	3	28	D	D	D	D	D	D	D	D	D	D	C	B	A	B	B	A	B	D	D	E	E	E	E	E
96	3	29	E	E	E	E	D	D	C	B	B	B	A	A	A	A	A	B	B	D	D	D	E	E	E	E
96	3	30	E	D	D	D	D	D	D	D	C	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	3	31	D	D	D	D	D	D	D	D	D	D	C	C	A	A	A	A	B	D	D	E	E	E	E	E
96	4	1	E	F	F	E	E	E	E	D	D	B	A	A	A	A	A	A	C	D	E	E	E	E	E	E
96	4	2	E	E	E	E	E	E	E	D	D	C	A	A	A	A	A	A	C	D	E	E	E	E	E	E
96	4	3	E	E	E	E	E	E	E	E	C	B	A	A	A	A	B	D	D	D	D	D	D	D	D	D
96	4	4	D	D	D	D	D	D	D	D	D	D	C	A	-	-	-	-	-	C	D	D	D	D	D	D
96	4	5	D	D	D	D	D	D	D	D	D	C	C	B	A	A	A	B	C	D	D	E	E	E	D	E
96	4	6	E	E	F	F	G	G	F	D	D	D	B	A	A	A	A	A	C	D	D	D	D	D	D	D
96	4	7	D	D	D	D	D	D	D	D	D	B	B	A	A	A	A	A	C	D	D	E	E	E	E	E
96	4	8	E	E	E	D	E	E	E	D	D	C	C	C	D	D	D	D	D	D	D	D	C	D	D	D
96	4	9	D	D	D	D	B	A	A	A	B	B	A	A	C	C	A	A	D	D	D	E	F	F	F	F
96	4	10	F	G	G	F	F	F	E	D	C	A	-	-	-	-	-	-	A	D	E	E	E	E	E	E
96	4	11	E	E	E	E	E	E	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	12	-	-	D	D	D	C	A	A	B	C	C	B	A	C	A	A	C	D	D	D	D	D	D	D
96	4	13	D	D	D	D	D	D	D	D	B	A	A	A	A	A	A	A	A	C	D	D	D	D	D	E
96	4	14	E	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	15	-	-	-	C	B	B	D	C	C	C	C	B	A	A	B	C	D	D	E	E	F	F	F	G
96	4	16	G	F	F	E	E	E	E	D	C	B	B	B	C	B	A	A	C	D	D	E	E	E	E	E
96	4	17	E	E	E	F	F	F	F	D	D	B	A	A	A	A	A	-	-	-	-	-	-	-	-	-
96	4	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	E	E	E	E	E	E
96	4	24	E	E	E	E	E	E	E	-	-	-	-	-	-	-	-	A	B	D	E	F	F	E	E	E
96	4	25	D	D	D	E	D	D	D	D	D	D	C	A	A	A	A	B	C	D	D	D	D	D	D	D
96	4	26	D	D	D	D	D	D	D	D	B	A	A	A	A	A	A	B	D	D	D	E	E	E	F	E
96	4	27	F	F	F	F	F	F	F	E	D	D	D	D	C	D	D	C	C	D	D	-	-	-	-	-
96	4	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E	E	E	F	E
96	6	7	E	D	C	B	B	B	A	-	-	-	-	-	-	-	A	B	C	D	D	B	D	D	C	B
96	6	8	C	D	D	D	D	D	D	C	B	B	A	A	A	A	A	A	A	A	B	E	F	F	E	F
96	6	9	F	F	F	F	F	E	D	-	-	-	-	-	-	-	-	A	A	C	D	D	E	F	F	F
96	6	10	F	F	E	D	E	D	E	D	B	B	B	D	C	B	C	D	C	D	D	D	E	F	F	F
96	6	11	F	F	F	E	F	F	E	D	D	B	B	B	C	C	C	D	D	D	E	F	E	E	F	F
96	6	12	F	F	F	F	F	F	E	D	D	C	B	A	A	-	-	-	-	-	E	E	E	F	F	E
96	6	13	D	D	E	E	D	E	E	B	D	F	F	F	F	F	G	G	G	G	G	-	-	-	-	G
96	6	14	G	G	F	G	E	E	D	D	E	D	D	D	D	D	D	D	D	E	E	E	E	F	F	F
96	6	15	F	E	E	E	E	E	D	D	C	C	D	C	C	C	C	D	E	D	D	E	E	E	E	D
96	6	16	D	-	-	-	-	-	-	-	A	A	A	A	A	A	B	D	B	A	D	-	-	-	-	-
96	6	17	-	-	-	-	-	A	C	C	D	D	D	D	D	D	D	D	D	D	D	E	F	F	E	D
96	6	18	D	D	C	C	A	D	D	C	C	C	B	B	C	B	B	A	B	C	C	E	E	E	E	D
96	6	19	D	D	D	B	B	A	B	B	C	C	D	E	-	-	-	-	-	-	-	-	-	-	-	-
96	6	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	23	-	-	-	-	-	-	-	-	A	A	A	A	A	B	C	D	D	-	-	-	-	-	-	-
96	6	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	6	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

JFDs of 10-Meter Wind vs. Delta T

July-September 1996*

* The 10 meter wind direction values for the months of July, August and September were taken from the 10 meter back-up tower.

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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	2	1	2	0	0	1	1	2	1	2	0	0	1	0	1	14
3.51- 7.50	14	5	3	8	6	9	26	14	3	5	1	1	0	2	1	5	103
7.51-12.50	4	0	0	0	0	9	14	21	11	10	3	0	0	1	0	4	77
12.51-18.50	0	0	0	0	0	2	3	2	3	0	0	0	0	0	0	0	10
18.51-24.00	0	0	0	0	0	0	2	0	0	0	0	0	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	18	7	4	10	6	20	46	38	19	16	6	1	0	4	1	10	206

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	2	4	3	1	0	1	3	1	1	0	1	0	0	1	0	2	20
3.51- 7.50	17	5	3	4	8	9	14	8	9	4	5	2	1	0	4	9	102
7.51-12.50	2	0	0	1	4	4	6	2	9	5	3	1	1	1	0	14	53
12.51-18.50	0	0	0	0	0	1	2	0	2	0	0	0	0	0	0	0	5
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	21	9	6	6	12	15	25	11	21	9	9	3	2	2	4	25	180

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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	2	4	2	0	0	1	1	3	2	0	2	0	0	0	0	1	18
3.51- 7.50	13	8	0	7	4	5	9	7	5	3	3	1	1	0	1	4	71
7.51-12.50	1	0	0	2	1	2	2	6	5	1	2	3	1	3	2	13	44
12.51-18.50	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	4
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	16	12	2	9	5	8	13	17	12	4	7	4	2	4	4	19	138

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	12	13	6	2	2	5	9	10	9	1	2	3	6	5	18	109
3.51- 7.50	25	22	12	11	14	26	22	30	21	14	10	4	5	2	6	15	229
7.51-12.50	0	1	0	0	3	4	21	12	9	3	1	3	3	2	4	9	75
12.51-18.50	0	0	0	0	0	0	5	2	3	1	1	1	1	0	0	2	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	31	25	25	17	19	32	53	53	43	27	13	10	12	10	15	44	429

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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																	5
1.01- 3.50	18	14	9	4	0	3	0	23	32	23	13	9	3	10	18	31	210
3.51- 7.50	7	6	1	5	11	8	19	17	16	2	4	1	0	2	9	9	117
7.51-12.50	1	0	0	0	0	0	2	7	4	3	2	0	0	0	1	0	20
12.51-18.50	0	0	0	0	0	0	1	1	4	0	0	0	0	1	0	0	7
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	26	20	10	9	11	11	22	48	56	28	19	10	3	13	28	40	359

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	3	2	1	0	0	0	3	8	18	7	6	7	6	8	16	23	108
3.51- 7.50	0	1	0	1	0	0	0	2	5	0	1	2	5	0	1	2	20
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	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	3	3	1	1	0	0	3	10	23	7	7	9	12	8	18	25	136

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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																	1
1.01- 3.50	2	0	0	0	0	0	3	11	3	2	2	0	1	0	7	8	39
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	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	2	0	0	0	0	0	3	11	3	2	2	0	1	0	7	8	40

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																	12
1.01- 3.50	33	38	29	13	2	7	16	56	68	42	27	18	13	26	46	84	518
3.51- 7.50	76	37	19	36	43	57	90	78	59	28	24	11	12	6	22	44	642
7.51-12.50	8	1	0	3	8	19	45	48	38	22	11	7	6	7	8	40	271
12.51-18.50	0	0	0	0	0	3	12	6	12	1	1	1	1	2	1	2	42
18.51-24.00	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	117	76	48	52	53	86	165	188	177	93	63	37	32	41	77	171	1488

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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: 1488

TOTAL NUMBER OF MISSING OBSERVATIONS: 720

PERCENT DATA RECOVERY FOR THIS PERIOD: 67.4 %

MEAN WIND SPEED FOR THIS PERIOD: 5.4 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
13.84	12.10	9.27	28.83	24.13	9.14	2.69

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	18	7	4	10	6	20	46	38	19	16	6	1	0	4	1	10	0
B	21	9	6	6	12	15	25	11	21	9	9	3	2	2	4	25	0
C	16	12	2	9	5	8	13	17	12	4	7	4	2	4	4	19	0
D	31	25	25	17	19	32	53	53	43	27	13	10	12	10	15	44	0
E	26	20	10	9	11	11	22	48	56	28	19	10	3	13	28	40	5
F	3	3	1	1	0	0	3	10	23	7	7	9	12	8	18	25	6
G	2	0	0	0	0	0	3	11	3	2	2	0	1	0	7	8	1
TOTAL	117	76	48	52	53	86	165	188	177	93	63	37	32	41	77	171	12

JFDs of 10-Meter Wind vs. Delta T

October-December 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3.51- 7.50	3	0	0	0	1	2	0	0	0	0	0	0	0	0	0	2	8
7.51-12.50	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	9
12.51-18.50	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	7	10
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	1	1	0	1	2	1	0	2	0	0	0	1	0	0	12	31

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	4	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	7
3.51- 7.50	4	1	1	0	2	2	1	0	0	0	0	0	1	1	0	2	15
7.51-12.50	8	0	0	0	0	3	0	0	0	0	0	0	0	0	4	3	18
12.51-18.50	0	0	0	0	0	0	0	1	3	0	0	0	0	0	1	13	18
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	1	2	0	3	5	2	1	3	0	0	0	1	1	5	18	58

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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																	2
1.01- 3.50	2	2	0	0	0	1	1	0	0	0	1	0	0	0	0	0	7
3.51- 7.50	14	2	0	0	1	1	2	2	2	1	1	0	0	0	1	5	32
7.51-12.50	11	1	0	0	1	2	5	1	1	0	0	0	0	4	5	4	35
12.51-18.50	0	0	0	0	0	2	2	1	1	1	0	0	1	4	9	4	25
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	3	4	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	27	5	0	0	2	6	10	4	5	2	2	0	1	11	19	13	109

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																	2
1.01- 3.50	17	3	4	2	0	2	1	4	1	3	1	0	2	2	3	3	48
3.51- 7.50	61	15	9	28	21	18	32	12	8	7	6	10	5	14	14	44	304
7.51-12.50	31	3	1	6	26	9	23	26	8	5	3	4	17	22	58	65	307
12.51-18.50	0	0	0	0	0	6	10	12	6	3	0	1	4	25	57	12	136
18.51-24.00	0	0	0	0	0	0	0	3	1	4	0	0	0	5	10	6	29
>24.00	0	0	0	0	0	0	0	0	3	0	1	0	1	5	0	0	10
TOTAL	109	21	14	36	47	35	66	57	27	22	11	15	29	73	142	130	836

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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																	10
1.01- 3.50	11	8	5	4	3	0	3	8	6	6	4	1	3	3	4	9	78
3.51- 7.50	8	0	1	0	0	1	9	11	8	3	2	4	8	5	13	8	81
7.51-12.50	0	0	0	0	0	0	1	10	24	1	0	1	7	19	5	1	69
12.51-18.50	0	0	0	0	0	0	0	5	7	1	0	0	0	1	1	0	15
18.51-24.00	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	8	6	4	3	1	13	34	45	13	7	6	18	28	23	18	256

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																	9
1.01- 3.50	2	1	0	0	0	0	2	7	20	3	2	1	1	3	0	5	47
3.51- 7.50	0	0	0	0	0	0	0	6	15	5	2	2	2	0	0	1	33
7.51-12.50	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	1	6
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	2	1	0	0	0	0	2	13	35	9	4	5	5	3	0	7	95

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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	0	2	1	0	1	0	3	8	3	2	0	0	0	0	1	1	22
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	2	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	0	2	1	0	1	0	3	8	3	2	1	2	1	0	1	1	26

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																	23
1.01- 3.50	38	17	12	6	5	3	11	27	30	14	8	2	6	8	8	18	213
3.51- 7.50	90	18	11	28	25	24	44	31	33	16	12	16	16	20	28	62	474
7.51-12.50	55	4	1	6	27	14	30	37	33	7	3	9	27	45	72	77	447
12.51-18.50	0	0	0	0	0	8	12	19	19	5	0	1	6	30	68	36	204
18.51-24.00	0	0	0	0	0	0	0	3	2	6	1	0	0	8	14	6	40
>24.00	0	0	0	0	0	0	0	0	3	0	1	0	1	5	0	0	10
TOTAL	183	39	24	40	57	49	97	117	120	48	25	28	56	116	190	199	1411

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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: 1411

TOTAL NUMBER OF MISSING OBSERVATIONS: 797

PERCENT DATA RECOVERY FOR THIS PERIOD: 63.9 %

MEAN WIND SPEED FOR THIS PERIOD: 8.3 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.20	4.11	7.73	59.25	18.14	6.73	1.84

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	10	1	1	0	1	2	1	0	2	0	0	0	1	0	0	12	0
B	16	1	2	0	3	5	2	1	3	0	0	0	1	1	5	18	0
C	27	5	0	0	2	6	10	4	5	2	2	0	1	11	19	13	2
D	109	21	14	36	47	35	66	57	27	22	11	15	29	73	142	130	2
E	19	8	6	4	3	1	13	34	45	13	7	6	18	28	23	18	10
F	2	1	0	0	0	0	2	13	35	9	4	5	5	3	0	7	9
G	0	2	1	0	1	0	3	8	3	2	1	2	1	0	1	1	0
TOTAL	183	39	24	40	57	49	97	117	120	48	25	28	56	116	190	199	23

JFDs of 10-Meter Wind vs. Delta T

July-December 1996 *

* The 10 meter wind direction values for the months of July, August and September were taken from the 10 meter back-up tower.

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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	2	3	2	2	0	0	1	1	2	1	2	0	0	1	0	1	18
3.51- 7.50	17	5	3	8	7	11	26	14	3	5	1	1	0	2	1	7	111
7.51-12.50	9	0	0	0	0	9	15	21	11	10	3	0	0	1	0	7	86
12.51-18.50	0	0	0	0	0	2	3	2	5	0	0	0	1	0	0	7	20
18.51-24.00	0	0	0	0	0	0	2	0	0	0	0	0	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	28	8	5	10	7	22	47	38	21	16	6	1	1	4	1	22	237

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	6	4	4	1	1	1	4	1	1	0	1	0	0	1	0	2	27
3.51- 7.50	21	6	4	4	10	11	15	8	9	4	5	2	2	1	4	11	117
7.51-12.50	10	0	0	1	4	7	6	2	9	5	3	1	1	1	4	17	71
12.51-18.50	0	0	0	0	0	1	2	1	5	0	0	0	0	0	1	13	23
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	37	10	8	6	15	20	27	12	24	9	9	3	3	3	9	43	238

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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																	2
1.01- 3.50	4	6	2	0	0	2	2	3	2	0	3	0	0	0	0	1	25
3.51- 7.50	27	10	0	7	5	6	11	9	7	4	4	1	1	0	2	9	103
7.51-12.50	12	1	0	2	2	4	7	7	6	1	2	3	1	7	7	17	79
12.51-18.50	0	0	0	0	0	2	3	2	1	1	0	0	1	5	10	4	29
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	3	4	1	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	43	17	2	9	7	14	23	21	17	6	9	4	3	15	23	32	247

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																	2
1.01- 3.50	23	15	17	8	2	4	6	13	11	12	2	2	5	8	8	21	157
3.51- 7.50	86	27	21	39	35	44	54	42	29	21	16	14	10	16	20	59	533
7.51-12.50	31	4	1	6	29	13	44	38	17	8	4	7	20	24	62	74	382
12.51-18.50	0	0	0	0	0	6	15	14	9	4	1	2	5	25	57	14	152
18.51-24.00	0	0	0	0	0	0	0	3	1	4	0	0	0	5	10	6	29
>24.00	0	0	0	0	0	0	0	0	3	0	1	0	1	5	0	0	10
TOTAL	140	46	39	53	66	67	119	110	70	49	24	25	41	83	157	174	1265

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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																	15
1.01- 3.50	29	22	14	8	3	3	3	31	38	29	17	10	6	13	22	40	288
3.51- 7.50	15	6	2	5	11	9	28	28	24	5	6	5	8	7	22	17	198
7.51-12.50	1	0	0	0	0	0	3	17	28	4	2	1	7	19	6	1	89
12.51-18.50	0	0	0	0	0	0	1	6	11	1	0	0	0	2	1	0	22
18.51-24.00	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	45	28	16	13	14	12	35	82	101	41	26	16	21	41	51	58	615

B170

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																	15
1.01- 3.50	5	3	1	0	0	0	5	15	38	10	8	8	7	11	16	28	155
3.51- 7.50	0	1	0	1	0	0	0	8	20	5	3	4	7	0	1	3	53
7.51-12.50	0	0	0	0	0	0	0	0	0	1	0	2	3	0	1	1	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	5	4	1	1	0	0	5	23	58	16	11	14	17	11	18	32	231

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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																	1
1.01- 3.50	2	2	1	0	1	0	6	19	6	4	2	0	1	0	8	9	61
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	2	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	2	2	1	0	1	0	6	19	6	4	3	2	2	0	8	9	66

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																	35
1.01- 3.50	71	55	41	19	7	10	27	83	98	56	35	20	19	34	54	102	731
3.51- 7.50	166	55	30	64	68	81	134	109	92	44	36	27	28	26	50	106	1116
7.51-12.50	63	5	1	9	35	33	75	85	71	29	14	16	33	52	80	117	718
12.51-18.50	0	0	0	0	0	11	24	25	31	6	1	2	7	32	69	38	246
18.51-24.00	0	0	0	0	0	0	2	3	2	6	1	0	0	8	14	7	43
>24.00	0	0	0	0	0	0	0	0	3	0	1	0	1	5	0	0	10
TOTAL	300	115	72	92	110	135	262	305	297	141	88	65	88	157	267	370	2899

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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: 2899

TOTAL NUMBER OF MISSING OBSERVATIONS: 1517

PERCENT DATA RECOVERY FOR THIS PERIOD: 65.6 %

MEAN WIND SPEED FOR THIS PERIOD: 6.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
8.18	8.28	8.52	43.64	21.21	7.97	2.28

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	28	8	5	10	7	22	47	38	21	16	6	1	1	4	1	22	0
B	37	10	8	6	15	20	27	12	24	9	9	3	3	3	9	43	0
C	43	17	2	9	7	14	23	21	17	6	9	4	3	15	23	32	2
D	140	46	39	53	66	67	119	110	70	49	24	25	41	83	157	174	2
E	45	28	16	13	14	12	35	82	101	41	26	16	21	41	51	58	15
F	5	4	1	1	0	0	5	23	58	16	11	14	17	11	18	32	15
G	2	2	1	0	1	0	6	19	6	4	3	2	2	0	8	9	1
TOTAL	300	115	72	92	110	135	262	305	297	141	88	65	88	157	267	370	35

JFDs of 10-Meter Wind vs. Delta T

January-December 1996*

* The 10 meter wind direction values for the months of July, August and September were taken from the 10 meter back-up tower.

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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	2	5	4	2	0	0	1	1	2	1	2		0	1	0	1	22
3.51- 7.50	21	10	5	8	10	14	27	21	4	5	1	1	0	2	3	7	139
7.51-12.50	30	2	1	9	2	11	21	32	16	14	3	0	0	5	3	17	166
12.51-18.50	5	1	0	0	0	2	8	4	29	7	0	0	1	4	9	22	92
18.51-24.00	2	0	0	0	0	0	2	0	2	0	1	0	1	6	12	5	31
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
TOTAL	60	18	10	19	12	27	59	58	53	27	7	1	2	20	28	52	453

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	7	6	4	1	1	1	4	2	2	1	1	0	0	1	0	2	33
3.51- 7.50	29	10	7	7	13	18	19	11	10	8	7	3	2	1	5	12	162
7.51-12.50	15	5	0	1	6	9	11	8	14	6	3	1	2	3	9	25	118
12.51-18.50	7	0	0	0	0	1	4	2	11	3	0	0	0	6	12	20	66
18.51-24.00	0	0	0	0	0	0	0	0	2	0	0	1	1	0	6	1	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	4
TOTAL	58	21	11	9	20	29	38	23	39	18	11	5	5	12	34	61	394

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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																	2
1.01- 3.50	4	6	2	0	0	2	3	4	2	0	3	0	0	1	0	2	29
3.51- 7.50	32	16	2	12	5	10	21	12	11	7	8	2	4	6	3	15	166
7.51-12.50	25	3	2	5	9	10	12	14	16	12	2	3	2	17	18	27	177
12.51-18.50	0	0	0	0	0	4	3	3	3	7	0	0	2	9	20	11	62
18.51-24.00	0	0	0	0	0	0	1	0	1	0	0	0	2	4	12	3	23
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	7
TOTAL	61	25	6	17	14	26	40	33	33	26	13	5	10	37	58	60	466

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																	2
1.01- 3.50	24	17	21	13	3	9	7	17	15	21	4	5	5	12	9	24	206
3.51- 7.50	104	45	36	64	58	86	84	51	38	28	25	28	18	44	50	93	852
7.51-12.50	90	39	3	13	49	36	75	68	38	23	7	11	31	54	161	139	837
12.51-18.50	11	1	0	0	0	14	21	20	24	15	1	2	17	50	124	76	376
18.51-24.00	0	0	0	0	0	0	1	3	1	5	0	0	0	14	35	29	88
>24.00	0	0	0	0	0	0	1	0	3	0	1	0	1	6	20	11	43
TOTAL	229	102	60	90	110	145	189	159	119	92	38	46	72	180	399	372	2404

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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																	15
1.01- 3.50	43	35	17	10	4	7	8	41	53	32	25	13	8	24	33	57	410
3.51- 7.50	44	14	15	17	24	25	55	67	45	22	11	13	24	27	53	30	486
7.51-12.50	3	0	0	0	1	5	16	60	74	27	11	13	10	36	26	8	290
12.51-18.50	0	0	0	0	0	0	4	14	24	14	0	7	3	10	4	0	80
18.51-24.00	0	0	0	0	0	0	0	0	0	4	1	0	0	1	11	1	18
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	90	49	32	27	29	37	83	182	196	99	48	46	45	98	127	96	1299

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																	14
1.01- 3.50	24	7	4	1	0	1	9	29	66	19	12	16	11	14	27	51	291
3.51- 7.50	3	1	3	2	0	3	14	18	34	18	8	9	17	1	4	8	143
7.51-12.50	0	0	0	0	0	0	2	0	3	8	5	13	8	1	1	1	42
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	27	8	7	3	0	4	25	47	103	45	25	38	36	16	32	60	492

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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																	1
1.01- 3.50	4	7	3	0	1	1	18	28	14	13	5	3	2	4	9	14	126
3.51- 7.50	0	0	0	0	0	1	0	0	5	2	1	2	0	0	0	1	12
7.51-12.50	0	0	0	0	0	0	0	0	0	2	2	3	3	1	0	0	11
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	7	3	0	1	2	18	28	19	17	8	8	5	5	9	15	150

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																	36
1.01- 3.50	108	83	55	27	9	21	50	122	154	87	52	37	26	57	78	151	1117
3.51- 7.50	233	96	68	110	110	157	220	180	147	90	61	58	65	81	118	166	1960
7.51-12.50	163	49	6	28	67	71	137	182	161	92	33	44	56	117	218	217	1641
12.51-18.50	23	2	0	0	0	21	40	43	91	46	1	9	23	79	169	129	676
18.51-24.00	2	0	0	0	0	0	4	3	6	9	2	1	4	25	76	39	171
>24.00	0	0	0	0	0	0	1	0	3	0	1	0	1	9	28	14	57
TOTAL	529	230	129	165	186	270	452	530	562	324	150	149	175	368	687	716	5658

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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: 8784

TOTAL NUMBER OF VALID OBSERVATIONS: 5658

TOTAL NUMBER OF MISSING OBSERVATIONS: 3126

PERCENT DATA RECOVERY FOR THIS PERIOD: 64.4 %

MEAN WIND SPEED FOR THIS PERIOD: 7.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
8.01	6.96	8.24	42.49	22.96	8.70	2.65

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	60	18	10	19	12	27	59	58	53	27	7	1	2	20	28	52	0
B	58	21	11	9	20	29	38	23	39	18	11	5	5	12	34	61	0
C	61	25	6	17	14	26	40	33	33	26	13	5	10	37	58	60	2
D	229	102	60	90	110	145	189	159	119	92	38	46	72	180	399	372	2
E	90	49	32	27	29	37	83	182	196	99	48	46	45	98	127	96	15
F	27	8	7	3	0	4	25	47	103	45	25	38	36	16	32	60	16
G	4	7	3	0	1	2	18	28	19	17	8	8	5	5	9	15	1
TOTAL	529	230	129	165	186	270	452	530	562	324	150	149	175	368	687	716	36

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

July-December 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	7	1	F	F	F	F	F	F	E	D	A	A	A	-	-	-	-	A	A	A	A	E	E	E	E	E
96	7	2	E	E	D	D	C	E	E	C	B	B	A	A	B	B	A	C	D	D	E	E	E	E	E	E
96	7	3	E	E	E	E	E	D	D	B	-	-	-	-	-	-	-	B	B	B	D	D	E	E	D	-
96	7	4	-	-	-	-	-	-	-	-	-	-	A	A	A	A	A	A	A	B	C	D	D	D	C	B
96	7	5	B	B	A	B	A	A	B	B	A	A	-	-	-	-	-	-	-	A	B	D	D	D	D	D
96	7	6	D	D	D	D	D	D	B	A	A	A	B	C	C	D	A	A	A	D	E	E	E	E	E	E
96	7	7	E	E	D	D	A	A	A	A	A	B	A	A	-	-	-	A	A	B	D	F	G	F	F	F
96	7	8	F	E	-	D	D	D	D	C	C	C	B	B	C	B	B	B	C	D	D	E	F	F	F	E
96	7	9	F	F	F	F	E	E	D	D	C	B	A	A	A	A	A	A	C	D	D	E	F	G	G	G
96	7	10	G	G	F	F	F	F	E	D	B	A	A	A	A	A	C	D	D	D	C	E	F	F	F	F
96	7	11	E	E	E	E	E	E	D	B	B	A	B	B	A	B	A	A	A	C	D	D	D	E	D	D
96	7	12	D	D	D	D	D	D	C	B	C	C	B	A	A	B	A	B	D	D	E	F	G	G	F	G
96	7	13	G	G	G	G	G	G	F	B	C	A	A	A	A	C	D	E	A	A	A	D	E	E	E	D
96	7	14	D	D	C	C	E	E	D	D	A	B	A	A	A	B	B	B	C	D	E	F	G	G	G	G
96	7	15	E	E	E	E	F	F	E	D	C	B	A	A	A	C	B	D	D	D	E	E	E	F	F	F
96	7	16	F	F	E	F	F	E	E	D	A	A	B	B	-	-	-	A	B	A	D	D	D	D	D	D
96	7	17	D	D	D	D	D	D	D	C	B	B	A	-	-	-	-	-	A	C	D	E	E	E	E	E
96	7	18	E	E	E	E	E	E	D	D	B	A	A	A	A	B	A	B	D	D	E	G	G	F	E	E
96	7	19	E	E	G	F	F	F	D	B	D	B	-	-	-	-	-	-	-	-	A	D	D	C	C	-
96	7	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	7	21	-	-	-	-	-	-	-	-	-	-	B	B	D	C	A	A	C	D	D	E	D	D	D	D
96	7	22	D	D	D	B	D	B	C	B	A	B	C	D	C	D	D	C	C	D	D	F	E	E	F	F
96	7	23	E	F	E	E	E	E	D	D	C	C	B	C	C	D	D	D	D	D	E	F	F	F	F	E
96	7	24	E	F	E	E	E	E	D	D	D	C	C	B	B	C	C	D	D	D	D	F	F	G	G	G
96	7	25	F	F	E	E	E	E	E	D	C	C	B	B	B	B	B	B	C	D	D	F	F	G	G	F
96	7	26	E	E	E	E	E	E	E	D	D	C	C	C	B	A	B	A	B	B	B	D	D	D	D	D
96	7	27	C	C	C	D	A	A	D	A	A	B	A	A	A	A	A	A	A	B	D	D	D	E	D	D
96	7	28	D	C	A	E	C	D	D	C	B	B	A	B	D	D	D	C	D	D	E	G	G	G	G	F
96	7	29	F	E	E	D	-	-	B	B	B	A	A	A	B	B	D	D	D	D	D	E	F	F	E	F
96	7	30	E	F	E	E	D	B	C	B	B	B	A	C	C	A	C	C	D	D	E	E	E	E	E	E
96	7	31	E	E	E	E	E	E	D	D	D	C	B	C	D	D	D	D	D	D	E	F	F	E	E	E
96	8	1	E	E	E	E	E	D	D	C	C	B	B	C	C	A	B	D	D	D	D	D	D	D	E	E
96	8	2	E	D	C	B	A	B	D	B	A	A	A	A	A	A	A	A	C	D	D	D	E	E	D	D
96	8	3	E	E	E	E	D	C	-	-	-	-	-	-	-	-	-	-	B	C	D	D	D	D	D	D
96	8	4	D	D	D	D	-	-	-	-	-	B	B	A	A	A	A	A	B	D	D	E	E	E	E	E
96	8	5	E	E	D	D	A	A	B	B	A	B	D	A	B	B	A	D	D	D	D	E	E	E	E	E
96	8	6	E	E	D	D	D	D	D	C	B	B	A	A	A	A	A	A	A	C	D	D	E	E	E	E
96	8	7	E	D	D	D	D	D	D	D	D	D	D	B	C	C	C	C	D	D	E	E	E	E	E	E
96	8	8	F	G	F	F	F	F	F	D	D	C	B	B	B	A	A	B	B	D	F	F	G	G	G	G
96	8	9	G	G	F	F	F	F	F	D	D	B	C	B	B	B	B	B	D	D	E	E	F	F	F	F
96	8	10	F	F	F	E	D	D	D	D	D	D	D	D	D	A	C	C	D	D	D	E	E	D	D	C
96	8	11	D	C	C	D	-	-	-	-	-	-	-	C	C	D	D	D	D	D	E	E	E	E	D	D
96	8	12	E	E	E	E	D	B	A	B	D	E	E	C	-	-	-	-	-	-	-	-	-	-	-	-
96	8	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	8	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	8	16	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	8	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	D	D	D	D	D	C	-	-	-
96	8	18	-	-	-	-	-	-	-	-	-	-	C	B	A	B	B	C	C	D	D	E	E	D	D	B
96	8	19	A	B	B	A	A	B	C	C	D	D	D	C	B	D	D	D	-	-	-	-	-	-	-	-
96	8	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	E	E	E	E	-
96	8	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	D	D	D	D	D	D
96	8	22	D	D	D	E	E	D	D	C	A	B	-	-	-	-	-	-	-		-	-	-	-	-	-
96	8	23	-	-	-	-	-	-	-	-	-	-	-	-	B	B	B	B	C	D	E	E	E	E	E	E
96	8	24	D	D	D	C	D	D	C	B	A	A	A	A	A	A	A	A	A	A	E	F	F	E	E	F
96	8	25	F	E	E	E	D	E	E	D	B	B	A	A	A	A	A	A	A	A	D	E	E	E	E	E
96	8	26	E	D	E	D	A	B	D	B	A	B	A	B	A	A	A	A	B	C	E	E	D	D	E	E
96	8	27	D	D	-	-	-	-	-	-	-	-	-	-	B	A	B	B	C	B	C	D	E	D	D	-
96	8	28	-	-	-	-	-	-	-	-	-	-	-	-	-	B	D	A	B	D	F	F	F	F	E	E
96	8	29	E	E	E	D	-	-	-	-	D	C	A	B	A	C	D	C	B	B	D	E	F	F	F	E
96	8	30	E	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	E	E	E	D	D	D
96	8	31	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-	-	-	D	E	E	E	E	D
96	9	1	E	E	E	E	D	A	A	A	A	A	A	A	A	A	A	A	A	C	D	D	E	E	D	D
96	9	2	D	D	D	D	D	D	D	B	A	-	-	-	-	-	-	-	-	C	E	F	F	E	E	E
96	9	3	E	E	E	E	E	D	D	C	B	B	C	-	-	-	-	-	-	C	E	E	E	E	E	E
96	9	4	E	E	E	E	E	E	E	C	-	-	-	-	-	-	-	-	-	B	D	E	E	E	E	D
96	9	5	E	D	D	E	E	E	D	C	-	-	-	-	-	-	-	-	-	C	E	E	E	E	E	E
96	9	6	E	D	D	E	E	D	D	D	B	-	-	-	-	-	-	-	-	D	E	E	F	F	E	E
96	9	7	E	E	E	E	E	E	D	B	B	A	C	A	A	A	A	D	D	C	-	-	-	-	-	-
96	9	8	-	-	-	-	-	-	-	-	-	-	-	-	B	B	B	B	C	D	D	D	D	D	E	E
96	9	9	E	E	E	E	F	F	E	C	A	D	D	-	-	-	-	-	-	-	-	G	G	F	F	E
96	9	10	F	F	F	F	E	F	E	E	B	-	-	-	-	-	-	-	-	-	-	F	E	E	E	F
96	9	11	F	E	F	F	E	E	E	E	C	-	-	-	-	B	B	C	D	D	E	E	E	E	E	D
96	9	12	D	D	D	D	E	E	E	D	C	A	B	B	A	A	C	C	D	D	D	D	E	E	E	E
96	9	13	D	D	D	D	E	E	E	D	B	A	A	B	A	A	A	A	D	D	F	F	F	F	F	F
96	9	14	F	F	F	E	E	E	E	D	B	A	-	-	-	-	-	C	C	D	E	E	E	E	E	E
96	9	15	E	E	E	D	C	-	-	-	-	-	-	A	B	C	C	C	D	D	D	D	D	D	D	D
96	9	16	D	D	D	D	D	D	D	D	C	-	-	-	-	-	-	D	D	D	E	F	F	E	E	E
96	9	17	E	E	E	E	D	D	D	B	-	-	-	-	-	-	-	-	-	D	D	E	E	E	E	E
96	9	18	D	D	D	D	D	B	B	A	A	B	B	D	C	C	C	C	D	D	D	D	D	D	D	D
96	9	19	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	C	D	D
96	9	20	D	D	D	D	D	E	E	E	D	B	B	A	A	B	A	B	D	E	F	F	F	E	E	E
96	9	21	F	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	9	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	9	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	9	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	-	-	-	-	-	-
96	9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	9	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	9	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	9	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	9	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	9	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	-	-	F	F
96	10	9	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	-
96	10	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	26	-	-	-	-	-	-	-	-	-	C	C	D	D	D	D	E	E	F	F	F	F	F	E	E
96	10	27	E	D	D	D	D	D	D	D	D	D	D	C	B	D	D	D	D	E	F	E	E	E	E	F
96	10	28	F	F	G	F	F	G	F	F	E	-	-	-	-	-	-	D	D	E	E	D	D	D	D	D
96	10	29	D	D	A	-	-	-	-	-	-	-	-	D	D	D	D	E	E	D	D	D	D	D	D	D
96	10	30	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D	E	E
96	10	31	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	1	D	E	F	F	F	E	E	E	D	-	-	-	-	-	B	D	D	D	D	D	E	E	E	E
96	11	2	D	D	D	E	D	E	E	E	D	D	C	B	B	C	D	D	D	E	F	G	F	F	F	F
96	11	3	F	F	F	F	F	F	F	E	D	D	D	C	A	B	B	D	D	E	E	E	E	E	E	E
96	11	4	E	E	E	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	C	C
96	11	6	C	D	E	D	D	E	E	D	C	D	D	D	C	C	D	D	D	E	E	F	G	G	G	G
96	11	7	G	G	G	G	F	E	F	F	F	D	D	D	D	D	D	D	E	F	G	G	G	G	F	E
96	11	8	D	D	D	D	E	E	E	D	D	-	-	-	-	-	-	D	D	D	E	E	E	E	E	E
96	11	9	F	E	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	E	D	D	E	E	D	D
96	11	10	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	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

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	11	13	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	14	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	C	D	D
96	11	15	C	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	D
96	11	16	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	17	A	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
96	11	18	E	E	D	D	D	D	D	E	D	D	D	D	C	C	C	D	D	E	E	E	E	E	D	D
96	11	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	20	D	D	D	D	D	D	D	C	C	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A
96	11	21	A	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	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
96	11	23	D	D	E	E	E	D	D	B	A	A	-	-	-	-	-	-	-	-	-	-	-	-	A	A
96	11	24	A	A	A	A	B	B	B	B	B	B	B	B	B	B	C	C	D	D	D	D	D	D	D	D
96	11	25	D	D	D	D	D	D	D	D	D	C	B	A	A	B	B	C	D	D	D	D	D	D	D	D
96	11	26	D	D	D	D	D	D	D	D	C	C	C	C	C	B	C	D	D	D	D	D	D	D	D	D
96	11	27	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F	F
96	11	28	F	F	F	F	F	F	F	F	E	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
96	11	29	E	E	E	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	30	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	12	1	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	D
96	12	2	D	D	D	D	D	D	D	C	D	D	C	C	D	D	D	E	D	D	C	B	B	C	C	C
96	12	3	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	G	F	F	F
96	12	4	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	D	D	D	D
96	12	5	C	C	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
96	12	6	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	G	F	G	F	G
96	12	7	F	E	E	E	F	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
96	12	8	E	E	E	E	E	E	E	E	D	D	D	D	C	B	C	D	D	E	E	E	F	E	E	E
96	12	9	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	E	F	F	F	F	F	F	F
96	12	10	F	G	G	G	G	G	G	F	F	E	E	D	D	D	D	E	E	E	E	E	D	D	D	D
96	12	11	D	D	D	D	C	B	C	C	C	C	C	C	C	C	C	B	B	-	-	-	-	-	-	-
96	12	12	-	-	-	-	-	-	D	D	-	-	D	D	D	D	D	D	D	E	-	-	-	-	-	-
96	12	13	E	E	D	D	C	-	-	-	-	-	-	-	C	D	D	D	D	E	E	D	D	-	-	-
96	12	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D
96	12	15	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	E	E	F	F	E	E	F
96	12	16	F	F	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	12	17	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D
96	12	18	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	D	D	D	D	D
96	12	19	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	E	E	E	E	E	F
96	12	20	F	F	F	F	F	F	E	E	E	D	C	B	A	B	C	D	D	E	E	E	E	E	E	E
96	12	21	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	F	F	E	E	D	C
96	12	22	C	D	C	B	B	C	C	C	C	C	C	B	C	C	C	D	D	D	D	D	D	D	D	D
96	12	23	C	C	C	B	B	B	B	A	B	B	B	B	B	C	C	D	D	D	D	D	D	D	D	D
96	12	24	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
96	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
96	12	26	D	D	D	D	D	D	D	D	D	C	A	A	A	B	B	C	D	D	D	D	E	E	E	E
96	12	27	E	E	D	D	D	D	D	D	C	-	-	-	-	-	-	C	D	E	E	E	E	F	G	D

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	12	28	A	A	B	C	B	B	B	B	C	D	D	D	D	E	D	-	-	-	D	D	D	D	D	D
96	12	29	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	E	D	E	E	E	E	E
96	12	30	E	E	E	E	E	D	-	-	-	-	-	-	-	-	-	-	-	-	-	D	C	C	D	D
96	12	31	D	D	D	D	D	D	C	B	B	B	B	B	C	C	D	D	D	D	D	-	-	-	-	-

JFDs of 100-Meter Wind vs. Delta T

January-March 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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 AT100.00 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	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	3	7
18.51-24.00	0	0	0	0	0	0	1	1	9	0	0	0	0	0	1	4	16
>24.00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL	1	0	0	0	0	0	5	1	10	0	0	0	0	0	1	7	25

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 AT100.00 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	3	0	0	0	2	0	0	7	0	1	0	0	0	0	0	0	13
12.51-18.50	1	0	0	0	1	0	1	2	1	0	0	0	0	2	2	3	13
18.51-24.00	1	1	0	0	0	0	1	1	5	0	0	0	0	0	3	5	17
>24.00	4	0	0	0	0	0	1	1	0	0	0	0	0	0	5	3	14
TOTAL	9	1	0	0	3	0	3	11	6	1	0	0	0	2	10	11	57

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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 AT100.00 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	3	0	0	1	2	0	0	2	2	4	1	0	1	2	0	5	23
12.51-18.50	6	0	0	0	0	1	10	5	2	1	0	0	0	4	6	8	43
18.51-24.00	4	0	0	0	0	0	1	3	1	0	0	0	0	4	7	11	31
>24.00	3	0	0	0	0	2	2	0	2	0	0	0	0	2	7	8	26
TOTAL	16	0	0	1	2	3	13	10	7	5	1	0	1	12	20	32	123

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 AT100.00 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	1	0	0	2	1	2	1	0	1	0	0	0	0	9
3.51- 7.50	7	3	4	4	4	13	9	4	6	9	5	5	5	7	6	6	97
7.51-12.50	38	10	9	8	6	35	19	13	7	28	7	5	4	13	34	34	270
12.51-18.50	71	22	2	6	2	17	26	19	15	14	6	1	2	17	83	59	362
18.51-24.00	46	15	0	0	0	5	8	10	18	4	0	0	1	11	56	43	217
>24.00	19	0	0	0	0	6	1	4	2	0	0	0	0	9	53	47	141
TOTAL	181	50	16	19	12	76	65	51	50	56	18	12	12	57	232	189	1096

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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 AT100.00 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	1	0	0	1	0	2	2	4	3	1	1	0	0	0	1	19
3.51- 7.50	7	1	2	0	0	0	0	2	3	13	7	4	3	0	2	4	48
7.51-12.50	10	3	3	3	1	8	7	6	13	21	14	0	4	13	14	30	150
12.51-18.50	10	7	2	3	1	16	14	17	30	21	13	3	7	17	16	11	188
18.51-24.00	3	0	0	0	0	2	5	15	27	2	4	3	3	13	9	3	89
>24.00	1	0	0	0	0	1	3	4	5	0	1	3	2	7	3	0	30
TOTAL	34	12	7	6	3	27	31	46	82	60	40	14	19	50	44	49	524

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 AT100.00 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	1	0	2	1	1	1	0	0	6
3.51- 7.50	0	1	0	0	0	0	0	1	2	3	4	3	3	2	1	5	25
7.51-12.50	1	0	1	0	0	0	1	7	11	13	3	4	3	10	3	7	64
12.51-18.50	0	0	0	2	0	0	0	3	8	16	0	4	6	7	3	5	54
18.51-24.00	0	0	0	0	0	0	0	1	1	0	1	12	4	7	1	0	27
>24.00	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	0	4
TOTAL	1	1	1	2	0	0	2	12	23	32	11	25	17	28	8	17	180

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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 AT100.00 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	1	0	0	0	2	1	1	1	0	0	7
7.51-12.50	0	0	0	0	0	0	0	0	0	2	0	7	6	4	0	1	20
12.51-18.50	0	0	0	0	0	0	0	0	1	1	2	0	2	3	0	0	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
TOTAL	1	0	0	0	0	0	1	0	1	3	5	12	11	8	0	1	43

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 AT100.00 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	1	1	1	1	0	4	3	7	4	3	3	1	1	0	1	34
3.51- 7.50	15	5	6	4	4	13	10	7	11	25	18	13	12	10	9	15	177
7.51-12.50	55	13	13	12	11	43	28	35	33	69	25	16	18	42	51	77	541
12.51-18.50	88	29	4	11	4	34	54	46	58	53	21	8	17	50	110	89	676
18.51-24.00	54	16	0	0	0	7	16	31	61	6	6	18	9	35	77	66	402
>24.00	28	0	0	0	0	9	8	9	9	0	2	5	3	19	68	58	218
TOTAL	243	64	24	28	20	106	120	131	179	157	75	63	60	157	315	306	2048

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 3/31/96

*** JAN-MAR 1996 ***

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: 2048

TOTAL NUMBER OF MISSING OBSERVATIONS: 136

PERCENT DATA RECOVERY FOR THIS PERIOD: 93.8 %

MEAN WIND SPEED FOR THIS PERIOD: 15.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.22	2.78	6.01	53.52	25.59	8.79	2.10

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	5	1	10	0	0	0	0	0	1	7	0
B	9	1	0	0	3	0	3	11	6	1	0	0	0	0	2	10	11	0
C	16	0	0	1	2	3	13	10	7	5	1	0	1	12	20	32	0
D	181	50	16	19	12	76	65	51	50	56	18	12	12	57	232	189	0
E	34	12	7	6	3	27	31	46	82	60	40	14	19	50	44	49	0
F	1	1	1	2	0	0	2	12	23	32	11	25	17	28	8	17	0
G	1	0	0	0	0	0	1	0	1	3	5	12	11	8	0	1	0
TOTAL	243	64	24	28	20	106	120	131	179	157	75	63	60	157	315	306	0

JFDs of 100-Meter Wind vs. Delta T

April-June 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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 AT100.00 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	1	1	0	1	0	0	1	0	0	1	0	0	0	5
3.51- 7.50	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	5
7.51-12.50	3	0	1	0	0	0	1	3	0	0	0	0	0	0	0	1	9
12.51-18.50	3	0	0	1	1	0	0	1	2	2	0	0	0	0	2	5	17
18.51-24.00	0	0	0	2	1	1	0	1	3	0	0	0	0	2	0	2	12
>24.00	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	3
TOTAL	6	0	2	5	5	2	2	5	7	3	0	0	1	3	2	8	51

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 AT100.00 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	1	1	1	1	0	0	0	0	0	6
3.51- 7.50	2	0	0	0	0	1	1	3	0	0	0	0	0	0	0	2	9
7.51-12.50	7	0	4	1	1	1	1	6	1	1	0	0	0	1	0	2	26
12.51-18.50	5	0	2	4	4	0	1	2	6	4	0	0	0	2	6	6	42
18.51-24.00	1	0	0	1	3	1	1	1	3	1	0	0	1	4	2	0	19
>24.00	0	0	0	0	0	0	0	0	3	0	0	0	0	5	0	0	8
TOTAL	15	2	6	6	8	3	4	13	14	7	1	0	1	12	8	10	110

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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 AT100.00 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	0	0	0	0	0	0	1
3.51- 7.50	5	3	1	3	0	1	3	4	2	1	1	0	0	1	0	2	27
7.51-12.50	5	2	2	6	2	2	3	5	6	1	0	0	2	1	1	4	42
12.51-18.50	9	3	3	1	2	3	4	2	6	4	2	0	0	0	4	1	44
18.51-24.00	1	0	0	0	4	0	3	2	3	1	0	2	1	5	6	5	33
>24.00	0	0	0	0	0	0	0	0	2	1	0	0	2	2	2	0	9
TOTAL	20	8	6	10	8	6	13	13	19	9	3	2	5	9	13	12	156

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 AT100.00 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	4	2	1	1	1	1	0	2	1	0	0	0	1	0	0	14
3.51- 7.50	14	6	4	5	5	8	9	4	4	4	3	2	4	2	3	8	85
7.51-12.50	29	17	15	33	18	20	17	18	19	9	4	2	3	3	6	30	243
12.51-18.50	26	14	17	20	18	20	45	27	29	16	3	3	3	7	26	39	313
18.51-24.00	9	0	3	5	3	1	13	9	14	7	2	1	1	9	15	19	111
>24.00	7	0	0	0	0	0	1	0	11	5	0	0	0	3	12	12	51
TOTAL	85	41	41	64	45	50	86	58	79	42	12	8	11	25	62	108	817

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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 AT100.00 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	2	1	0	1	1	1	1	0	1	1	0	1	0	12
3.51- 7.50	9	9	1	3	7	10	7	6	3	0	4	1	1	3	3	2	69
7.51-12.50	4	3	3	4	9	9	9	3	7	7	3	1	3	3	3	8	79
12.51-18.50	4	10	4	7	5	13	17	6	18	21	1	1	6	3	2	3	121
18.51-24.00	2	0	1	2	0	2	7	5	15	11	0	0	0	4	3	0	52
>24.00	0	0	0	0	0	2	2	1	11	4	0	0	1	3	0	0	24
TOTAL	19	24	9	18	22	36	43	22	55	44	8	4	12	16	12	13	357

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 AT100.00 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	0	0	1	0	1	1	2	0	0	0	1	1	2	0	14
3.51- 7.50	5	3	1	3	2	2	3	6	6	5	5	1	0	0	1	6	49
7.51-12.50	2	2	1	0	2	2	0	3	2	3	2	1	0	2	2	2	26
12.51-18.50	0	0	0	0	2	1	5	9	4	2	1	2	0	1	0	0	27
18.51-24.00	0	0	0	0	0	0	2	1	1	1	0	0	2	6	1	0	14
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8
TOTAL	8	9	2	3	7	5	11	20	15	11	8	4	4	17	6	8	138

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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 AT100.00 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	0	0	0	0	0	0	0	3
3.51- 7.50	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2
7.51-12.50	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	1	2	2	0	0	7
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	2	4	1	0	2	1	3	4	0	0	17

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 AT100.00 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	12	2	4	4	1	6	4	6	5	1	1	3	2	3	0	55
3.51- 7.50	35	21	8	15	16	23	23	24	15	10	13	4	5	7	7	20	246
7.51-12.50	50	24	26	44	32	34	31	40	36	21	9	4	8	10	12	47	428
12.51-18.50	47	27	26	33	32	37	72	47	65	49	9	7	11	15	40	54	571
18.51-24.00	13	0	4	10	11	5	26	19	39	21	2	3	6	31	27	26	243
>24.00	7	0	0	0	0	2	3	1	29	10	0	0	4	21	14	12	103
TOTAL	153	84	66	106	95	102	161	135	190	116	34	19	37	86	103	159	1646

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/96 - 6/30/96

*** APR-JUN 1996 ***

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: 1646

TOTAL NUMBER OF MISSING OBSERVATIONS: 538

PERCENT DATA RECOVERY FOR THIS PERIOD: 75.4 %

MEAN WIND SPEED FOR THIS PERIOD: 13.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

B196

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
3.10	6.68	9.48	49.64	21.69	8.38	1.03

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	2	5	5	2	2	5	7	3	0	0	1	3	2	8	0
B	15	2	6	6	8	3	4	13	14	7	1	0	1	12	8	10	0
C	20	8	6	10	8	6	13	13	19	9	3	2	5	9	13	12	0
D	85	41	41	64	45	50	86	58	79	42	12	8	11	25	62	108	0
E	19	24	9	18	22	36	43	22	55	44	8	4	12	16	12	13	0
F	8	9	2	3	7	5	11	20	15	11	8	4	4	17	6	8	0
G	0	0	0	0	0	0	2	4	1	0	2	1	3	4	0	0	0
TOTAL	153	84	66	106	95	102	161	135	190	116	34	19	37	86	103	159	0

JFDs of 100-Meter Wind vs. Delta T

January-June 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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 AT100.00 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	1	1	0	1	0	0	1	0	0	1	0	0	0	5
3.51- 7.50	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	5
7.51-12.50	3	0	1	0	0	0	2	3	0	0	0	0	0	0	0	1	10
12.51-18.50	3	0	0	1	1	0	3	1	3	2	0	0	0	0	2	8	24
18.51-24.00	0	0	0	2	1	1	1	2	12	0	0	0	0	2	1	6	28
>24.00	1	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	4
TOTAL	7	0	2	5	5	2	7	6	17	3	0	0	1	3	3	15	76

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 AT100.00 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	1	1	1	1	0	0	0	0	0	6
3.51- 7.50	2	0	0	0	0	1	1	3	0	0	0	0	0	0	0	2	9
7.51-12.50	10	0	4	1	3	1	1	13	1	2	0	0	0	1	0	2	39
12.51-18.50	6	0	2	4	5	0	2	4	7	4	0	0	0	4	8	9	55
18.51-24.00	2	1	0	1	3	1	2	2	8	1	0	0	1	4	5	5	36
>24.00	4	0	0	0	0	0	1	1	3	0	0	0	0	5	5	3	22
TOTAL	24	3	6	6	11	3	7	24	20	8	1	0	1	14	18	21	167

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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 AT100.00 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	0	0	0	0	0	0	1
3.51- 7.50	5	3	1	3	0	1	3	4	2	1	1	0	0	1	0	2	27
7.51-12.50	8	2	2	7	4	2	3	7	8	5	1	0	3	3	1	9	65
12.51-18.50	15	3	3	1	2	4	14	7	8	5	2	0	0	4	10	9	87
18.51-24.00	5	0	0	0	4	0	4	5	4	1	0	2	1	9	13	16	64
>24.00	3	0	0	0	0	2	2	0	4	1	0	0	2	4	9	8	35
TOTAL	36	8	6	11	10	9	26	23	26	14	4	2	6	21	33	44	279

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 AT100.00 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	4	3	2	1	1	3	1	4	2	0	1	0	1	0	0	23
3.51- 7.50	21	9	8	9	9	21	18	8	10	13	8	7	9	9	9	14	182
7.51-12.50	67	27	24	41	24	55	36	31	26	37	11	7	7	16	40	64	513
12.51-18.50	97	36	19	26	20	37	71	46	44	30	9	4	5	24	109	98	675
18.51-24.00	55	15	3	5	3	6	21	19	32	11	2	1	2	20	71	62	328
>24.00	26	0	0	0	0	6	2	4	13	5	0	0	0	12	65	59	192
TOTAL	266	91	57	83	57	126	151	109	129	98	30	20	23	82	294	297	1913

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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 AT100.00 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	3	0	2	2	0	3	3	5	4	1	2	1	0	1	1	31
3.51- 7.50	16	10	3	3	7	10	7	8	6	13	11	5	4	3	5	6	117
7.51-12.50	14	6	6	7	10	17	16	9	20	28	17	1	7	16	17	38	229
12.51-18.50	14	17	6	10	6	29	31	23	48	42	14	4	13	20	18	14	309
18.51-24.00	5	0	1	2	0	4	12	20	42	13	4	3	3	17	12	3	141
>24.00	1	0	0	0	0	3	5	5	16	4	1	3	3	10	3	0	54
TOTAL	53	36	16	24	25	63	74	68	137	104	48	18	31	66	56	62	881

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 AT100.00 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	0	0	1	0	1	1	3	0	2	1	2	2	2	0	20
3.51- 7.50	5	4	1	3	2	2	3	7	8	8	9	4	3	2	2	11	74
7.51-12.50	3	2	2	0	2	2	1	10	13	16	5	5	3	12	5	9	90
12.51-18.50	0	0	0	2	2	1	5	12	12	18	1	6	6	8	3	5	81
18.51-24.00	0	0	0	0	0	0	2	2	2	1	1	12	6	13	2	0	41
>24.00	0	0	0	0	0	0	1	0	0	0	1	1	1	8	0	0	12
TOTAL	9	10	3	5	7	5	13	32	38	43	19	29	21	45	14	25	318

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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 AT100.00 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	0	0	0	0	0	0	0	3
3.51- 7.50	1	0	0	0	0	0	1	1	0	0	2	1	1	2	0	0	9
7.51-12.50	0	0	0	0	0	0	0	2	1	2	0	7	6	4	0	1	23
12.51-18.50	0	0	0	0	0	0	0	0	1	1	4	1	4	5	0	0	16
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	3	2	1	0	0	7
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
TOTAL	1	0	0	0	0	0	3	4	2	3	7	13	14	12	0	1	60

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 AT100.00 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	13	3	5	5	1	10	7	13	9	4	4	4	3	3	1	89
3.51- 7.50	50	26	14	19	20	36	33	31	26	35	31	17	17	17	16	35	423
7.51-12.50	105	37	39	56	43	77	59	75	69	90	34	20	26	52	63	124	969
12.51-18.50	135	56	30	44	36	71	126	93	123	102	30	15	28	65	150	143	1247
18.51-24.00	67	16	4	10	11	12	42	50	100	27	8	21	15	66	104	92	645
>24.00	35	0	0	0	0	11	11	10	38	10	2	5	7	40	82	70	321
TOTAL	396	148	90	134	115	208	281	266	369	273	109	82	97	243	418	465	3694

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

*** JAN-JUN 1996 ***

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: 4368

TOTAL NUMBER OF VALID OBSERVATIONS: 3694

TOTAL NUMBER OF MISSING OBSERVATIONS: 674

PERCENT DATA RECOVERY FOR THIS PERIOD: 84.6 %

MEAN WIND SPEED FOR THIS PERIOD: 14.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.06	4.52	7.55	51.79	23.85	8.61	1.62

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	7	0	2	5	5	2	7	6	17	3	0	0	1	3	3	15	0
B	24	3	6	6	11	3	7	24	20	8	1	0	1	14	18	21	0
C	36	8	6	11	10	9	26	23	26	14	4	2	6	21	33	44	0
D	266	91	57	83	57	126	151	109	129	98	30	20	23	82	294	297	0
E	53	36	16	24	25	63	74	68	137	104	48	18	31	66	56	62	0
F	9	10	3	5	7	5	13	32	38	43	19	29	21	45	14	25	0
G	1	0	0	0	0	0	3	4	2	3	7	13	14	12	0	1	0
TOTAL	396	148	90	134	115	208	281	266	369	273	109	82	97	243	418	465	0

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

January-June 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	1	1	B	B	C	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	B	C	C
96	1	2	C	C	D	C	C	C	B	B	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	1	3	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	C	C	C	C
96	1	4	C	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	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
96	1	6	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D	D	D	E	E	E	E	E	E	E
96	1	7	E	E	E	E	E	E	F	F	E	E	E	D	D	E	E	D	D	E	E	F	F	F	F	E
96	1	8	E	F	F	F	F	F	E	E	F	E	E	D	D	D	D	D	D	E	E	E	E	E	E	F
96	1	9	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	E	F	F	G	G	G	F
96	1	10	G	F	F	F	E	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	E
96	1	11	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G	G
96	1	12	F	E	E	F	F	E	F	F	E	E	D	D	D	D	D	D	E	F	F	F	G	G	F	F
96	1	13	G	G	G	G	G	G	G	G	G	F	E	E	D	D	D	E	E	F	F	G	G	G	G	G
96	1	14	F	F	F	F	F	F	G	F	G	F	E	D	C	C	D	D	D	D	D	D	D	D	D	D
96	1	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D
96	1	16	C	B	-	-	-	-	-	-	-	-	-	-	C	D	D	D	D	E	E	E	E	E	E	F
96	1	17	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D
96	1	18	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D	D
96	1	19	D	D	D	D	D	D	D	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D
96	1	20	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
96	1	21	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
96	1	22	E	E	E	E	F	F	F	C	B	A	B	C	C	C	D	D	D	D	D	D	D	D	D	D
96	1	23	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	1	24	D	E	E	E	E	D	D	E	E	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D
96	1	25	D	D	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	1	26	D	D	D	D	D	D	D	D	D	D	D	D	C	-	-	-	-	-	-	D	D	D	D	D
96	1	27	D	E	E	E	E	E	E	E	E	E	D	D	E	E	E	D	D	D	E	E	E	E	E	D
96	1	28	D	E	E	E	E	D	D	E	E	D	D	D	D	D	D	D	E	E	E	F	-	-	-	D
96	1	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
96	1	30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
96	1	31	E	E	E	E	E	F	F	E	F	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E
96	2	1	E	D	D	D	D	D	D	D	E	E	F	E	E	E	E	E	E	D	E	E	E	D	D	D
96	2	2	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D
96	2	3	E	F	F	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	E	E	E	F	F	F
96	2	4	G	G	F	F	G	G	G	F	F	E	D	D	D	D	D	D	D	E	E	E	E	E	D	D
96	2	5	D	D	D	D	E	E	E	F	F	E	F	E	D	D	D	D	E	D	D	D	D	D	E	E
96	2	6	E	E	E	F	F	E	E	E	E	D	D	D	D	D	D	D	E	-	E	E	E	E	E	E
96	2	7	E	E	E	E	E	E	E	E	E	E	-	-	-	D	D	E	E	F	F	F	F	G	G	F
96	2	8	F	F	F	F	F	F	F	E	E	D	D	D	D	D	D	D	D	E	F	G	G	G	G	F
96	2	9	F	G	G	F	G	G	F	F	F	E	E	D	D	D	D	D	D	E	E	F	F	F	F	E	E
96	2	10	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	2	11	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
96	2	12	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	F	F	F	F
96	2	13	F	E	E	E	E	E	F	E	E	D	D	D	D	D	D	D	E	E	F	E	E	E	E	E
96	2	14	F	F	F	F	F	F	F	F	F	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D

B204

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	2	15	D	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	2	16	D	D	D	D	D	D	D	E	D	D	D	D	D	C	D	C	D	D	E	E	E	E	E	E
96	2	17	E	E	E	E	E	E	E	E	D	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D
96	2	18	D	D	D	D	D	D	D	D	D	D	C	B	B	C	D	C	D	D	E	E	F	F	F	E
96	2	19	F	F	F	F	E	F	F	F	F	E	E	D	D	D	D	D	E	E	F	F	F	F	F	F
96	2	20	E	E	E	E	E	E	E	E	E	D	C	B	B	C	D	D	D	E	E	E	E	E	E	E
96	2	21	E	D	D	D	D	D	D	C	C	B	B	B	C	D	D	D	D	D	D	D	D	D	D	D
96	2	22	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	2	23	-	-	-	-	-	-	-	D	D	D	D	D	C	D	D	D	D	D	E	F	F	F	F	F
96	2	24	F	F	F	F	F	F	G	G	E	E	D	D	D	D	D	D	D	E	E	F	E	E	E	E
96	2	25	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	F	E	E	D	D
96	2	26	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	2	27	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	D	D	D	D
96	2	28	D	D	D	D	D	D	D	D	D	C	C	B	B	C	B	C	D	D	D	D	D	D	D	D
96	2	29	D	D	D	D	D	D	E	D	D	D	D	C	D	D	C	D	D	D	E	E	E	E	E	E
96	3	1	E	E	D	E	E	E	E	E	D	D	D	D	C	C	C	D	D	D	E	E	E	D	D	D
96	3	2	D	E	E	E	E	D	E	D	D	D	C	B	B	B	B	C	D	D	D	D	E	E	D	D
96	3	3	D	D	D	D	D	D	D	D	D	D	D	D	D	C	B	B	D	D	D	E	E	E	E	E
96	3	4	D	D	E	D	D	D	D	D	D	D	D	C	D	C	D	D	E	E	E	E	E	E	E	D
96	3	5	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	3	6	D	D	D	D	D	D	D	D	D	C	B	C	A	B	B	C	D	D	D	D	D	D	D	D
96	3	7	D	D	D	D	D	D	D	D	D	C	B	A	A	A	B	B	D	D	D	D	D	D	D	D
96	3	8	D	D	D	D	D	D	D	D	D	C	C	B	C	B	C	C	D	D	D	E	E	E	E	E
96	3	9	E	E	E	E	E	E	E	E	D	D	D	D	D	D	C	C	D	D	E	E	E	E	E	E
96	3	10	E	E	E	E	E	E	E	D	D	C	A	A	B	A	A	B	D	D	E	E	E	E	E	E
96	3	11	E	E	E	E	E	E	E	D	D	D	A	A	B	A	B	B	D	D	E	E	E	E	E	E
96	3	12	E	E	E	E	E	E	F	E	D	D	B	B	A	A	A	B	D	D	E	F	F	F	F	F
96	3	13	F	F	F	F	F	F	-	-	-	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-
96	3	14	-	-	-	-	-	E	D	D	D	D	D	C	B	B	D	D	D	D	D	E	E	E	E	E
96	3	15	E	E	F	F	F	F	F	F	D	D	D	D	D	D	D	D	D	E	E	F	F	F	E	E
96	3	16	E	E	E	E	E	E	E	E	D	D	B	B	C	D	D	D	D	D	D	D	D	E	E	E
96	3	17	F	F	F	F	E	F	F	E	D	D	D	C	C	C	C	C	D	D	E	E	E	F	F	E
96	3	18	E	F	F	F	F	E	E	D	D	C	A	A	B	B	A	B	D	D	D	D	D	D	D	D
96	3	19	D	D	D	D	D	D	D	D	D	D	C	B	B	B	C	C	D	D	D	D	D	D	D	D
96	3	20	D	D	D	D	D	D	D	D	D	C	-	-	-	-	-	C	D	D	D	E	E	E	E	E
96	3	21	E	E	E	E	E	E	E	D	D	D	C	C	C	C	A	C	D	D	D	E	E	E	E	-
96	3	22	-	-	-	-	-	-	-	-	-	E	D	D	E	D	D	D	D	D	D	E	E	E	E	E
96	3	23	E	E	D	E	D	D	D	D	D	D	D	C	B	C	D	C	C	D	D	D	E	E	F	F
96	3	24	E	E	E	E	E	D	D	D	D	D	C	C	D	E	-	-	-	-	-	-	-	-	-	-
96	3	25	-	-	-	-	-	-	-	-	-	-	-	B	C	C	C	C	D	D	D	D	D	D	D	E
96	3	26	E	E	E	E	E	E	E	D	E	E	D	D	D	D	B	B	C	C	D	D	E	E	E	E
96	3	27	E	E	E	E	E	E	E	D	D	D	B	A	D	C	A	C	D	D	D	D	D	D	D	D
96	3	28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
96	3	29	E	E	E	E	E	D	D	C	C	C	A	A	A	B	A	B	C	D	D	D	E	E	E	E
96	3	30	E	D	E	E	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	3	31	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	E	E	E	E
96	4	1	E	E	E	E	E	E	E	E	D	D	A	A	B	C	A	B	D	D	E	E	E	E	E	E
96	4	2	E	E	E	E	E	E	E	E	D	D	B	A	B	B	A	C	D	D	E	E	E	E	E	E
96	4	3	E	E	E	E	E	E	E	E	D	C	C	C	B	B	C	D	D	D	D	D	D	D	D	D
96	4	4	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	D	D	D	D	D	D	D
96	4	5	D	D	D	D	D	D	D	D	D	D	D	D	B	A	A	D	D	D	D	E	E	E	D	D
96	4	6	E	E	E	F	F	F	F	E	D	E	D	A	D	D	D	D	D	D	D	D	D	D	D	D
96	4	7	D	D	D	E	E	D	D	D	D	D	C	B	B	C	B	C	D	D	D	D	E	E	E	E
96	4	8	E	E	D	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	4	9	D	D	D	D	D	D	D	D	D	D	B	A	D	D	C	D	E	E	D	E	F	F	F	F
96	4	10	F	F	F	F	F	F	E	D	D	C	-	-	-	-	-	-	C	D	D	E	E	E	E	E
96	4	11	E	E	E	E	E	E	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	12	-	-	D	D	D	C	B	A	A	B	C	C	C	C	B	B	C	D	D	D	D	D	D	D
96	4	13	D	D	D	D	D	D	D	D	D	D	D	B	D	D	A	B	D	D	D	D	D	D	D	E
96	4	14	E	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	15	-	-	-	D	D	C	D	D	C	D	C	C	C	C	C	D	D	D	E	E	F	F	F	F
96	4	16	G	F	E	E	E	E	E	D	D	D	D	C	D	D	B	D	D	D	D	E	E	E	E	E
96	4	17	E	F	F	F	F	F	F	D	D	C	B	B	B	A	A	D	D	D	E	E	E	-	-	-
96	4	18	-	-	E	E	E	E	E	E	D	E	B	B	B	C	D	D	D	D	E	E	F	G	G	G
96	4	19	F	G	G	F	F	F	E	E	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	20	-	D	D	D	D	D	D	D	C	B	B	A	B	B	B	D	D	D	D	E	F	E	E	E
96	4	21	E	E	F	E	E	E	E	D	D	D	D	A	C	D	D	D	D	D	E	E	E	D	D	D
96	4	22	D	D	D	D	D	D	D	D	D	D	C	A	B	A	A	C	D	D	D	D	E	E	E	D
96	4	23	D	D	D	E	D	E	E	E	E	-	-	-	-	-	-	-	-	D	D	E	E	E	E	E
96	4	24	E	E	E	E	D	E	E	-	-	-	-	-	-	-	-	B	C	D	E	F	F	E	E	E
96	4	25	D	D	D	E	D	D	D	D	D	D	C	B	A	B	B	C	D	D	D	D	D	D	D	D
96	4	26	D	D	D	D	D	D	D	D	C	B	B	B	B	B	B	C	D	D	D	E	E	E	F	E
96	4	27	F	F	F	F	F	F	F	E	D	D	D	C	D	D	D	D	D	D	D	D	D	B	D	D
96	4	28	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	4	29	-	-	-	-	-	-	-	-	-	-	-	-	C	C	D	D	D	D	D	E	E	F	F	F
96	4	30	F	F	F	F	F	F	E	E	D	D	D	D	D	D	C	D	C	D	D	E	F	F	F	E
96	5	1	F	E	E	E	E	E	D	D	D	B	B	B	B	C	C	C	D	D	D	E	F	F	G	F
96	5	2	F	E	E	E	D	D	D	D	D	D	C	A	B	C	C	C	D	D	D	E	E	F	F	F
96	5	3	F	F	F	F	E	E	D	D	D	D	D	A	B	C	D	D	D	D	D	D	D	D	D	D
96	5	4	D	-	-	C	D	C	C	C	C	C	B	C	B	C	C	D	D	D	D	D	D	D	D	D
96	5	5	D	D	D	D	-	-	-	C	C	B	C	D	B	B	A	B	B	D	D	E	E	E	E	E
96	5	6	E	E	D	D	D	D	D	D	D	D	D	D	B	B	C	B	-	-	-	-	-	-	-	-
96	5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	-	F
96	5	9	E	D	E	D	D	E	-	-	-	-	-	-	-	-	B	B	C	D	D	D	D	-	-	-
96	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	A	B	B	C	C	D	D	D
96	5	11	D	C	B	B	C	B	B	B	B	B	B	A	A	C	C	D	D	D	D	D	D	E	E	D
96	5	12	D	D	D	D	D	D	D	D	D	D	D	C	C	B	-	-	-	-	-	-	-	-	-	-
96	5	13	-	A	A	A	A	A	B	B	B	B	B	C	B	B	A	C	C	D	D	D	D	D	D	D

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	5	15	-	-	-	-	-	-	-	-	-	B	A	C	C	C	C	D	D	D	D	D	E	E	D	D
96	5	16	D	D	D	D	D	D	-	-	-	-	-	C	C	C	C	D	D	D	D	D	D	D	D	D
96	5	17	D	D	D	D	D	D	D	D	D	D	D	C	D	D	C	D	D	D	E	E	E	E	E	E
96	5	18	F	E	F	E	E	E	E	D	D	D	C	C	B	B	C	C	D	D	D	E	E	D	D	E
96	5	19	E	E	E	E	E	E	D	D	D	D	D	D	D	C	C	D	D	D	E	E	E	E	E	E
96	5	20	E	E	E	D	D	-	-	-	-	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E
96	5	21	E	E	F	F	-	-	-	E	D	D	D	C	D	D	D	D	D	D	E	F	F	G	F	F
96	5	22	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	-	-
96	5	23	-	-	-	-	-	-	-	-	A	B	C	C	B	B	D	D	D	D	D	D	D	D	D	D
96	5	24	C	C	C	C	B	B	B	A	A	A	B	C	D	D	D	D	D	D	D	D	D	B	A	-
96	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	5	27	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
96	5	28	D	D	D	D	A	A	B	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	5	29	D	D	D	D	-	-	-	A	C	D	D	D	D	D	D	D	D	D	D	E	E	E	F	E
96	5	30	E	E	E	D	E	E	E	D	D	D	D	C	D	D	C	D	D	D	D	E	E	E	E	E
96	5	31	E	E	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E
96	6	1	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	D	E	E	F	G	G	G
96	6	2	G	G	F	E	F	E	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	3	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
96	6	4	F	F	E	F	E	E	E	E	D	D	D	C	D	D	C	C	D	D	D	E	F	E	E	E
96	6	5	E	E	D	D	D	D	C	C	B	B	A	B	D	C	D	D	D	D	D	D	D	D	E	E
96	6	6	D	E	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E	E	E	F	E
96	6	7	E	D	D	D	C	D	C	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D
96	6	8	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	E	F	F	E	F
96	6	9	F	E	F	F	F	F	E	-	-	-	-	-	-	-	-	D	D	D	D	D	E	F	F	F
96	6	10	F	F	F	E	F	E	E	E	E	D	C	D	D	C	D	D	D	D	D	D	E	F	F	F
96	6	11	F	F	F	E	F	F	E	D	D	C	C	C	D	D	D	D	D	D	E	E	E	E	F	F
96	6	12	F	F	F	G	F	F	E	D	D	D	B	B	C	-	-	-	-	-	F	F	E	F	F	E
96	6	13	E	E	E	E	E	F	E	C	D	E	E	E	F	F	F	F	F	F	F	-	-	-	-	G
96	6	14	G	G	F	F	F	F	E	D	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	F
96	6	15	F	E	E	E	E	E	D	D	C	C	D	C	C	D	D	D	E	D	D	E	E	D	E	D
96	6	16	D	-	-	-	-	-	-	-	B	B	A	A	A	B	C	D	C	C	D	-	-	-	-	-
96	6	17	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	D
96	6	18	D	D	D	D	D	D	D	C	D	D	B	B	C	C	C	C	D	D	D	E	E	E	E	D
96	6	19	D	D	D	D	D	D	C	C	C	D	D	E	-	-	-	-	-	-	-	-	-	-	-	-
96	6	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	6	23	-	-	-	-	-	-	-	-	C	B	B	B	B	D	D	D	D	D	D	D	E	D	D	D
96	6	24	D	D	D	D	D	D	D	D	D	C	B	A	A	A	D	D	D	D	D	E	E	E	E	E
96	6	25	E	E	E	E	E	D	D	C	B	-	-	-	-	-	-	-	-	C	D	D	D	D	D	D
96	6	26	D	D	D	D	D	D	D	B	B	-	-	-	-	-	-	-	C	C	D	D	D	D	D	D
96	6	27	E	E	E	E	D	D	C	B	-	-	-	-	-	-	-	-	-	C	C	D	D	D	D	D
96	6	28	D	D	D	D	D	D	D	D	C	-	-	-	-	-	-	-	-	D	D	D	E	D	D	D

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 6/30/96

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
96	6	29	D	D	D	E	E	D	D	D	D	C	C	C	C	D	D	E	E	E	E	D	D	D	D	E
96	6	30	E	E	E	-	-	D	D	D	D	D	C	C	D	D	C	D	D	D	E	F	F	F	E	F

JFDs of 100-Meter Wind vs. Delta T

July-September 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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 AT100.00 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	1	1	0	3	0	1	0	0	1	0	0	0	0	0	7
7.51-12.50	0	0	0	0	0	1	8	1	2	0	0	0	0	0	0	0	12
12.51-18.50	0	0	0	0	0	1	2	3	5	0	0	0	0	0	0	0	11
18.51-24.00	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	1	0	6	10	5	9	0	1	0	0	0	0	0	33

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 AT100.00 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	1	0	0	0	1	0	0	0	0	1	0	0	0	0	4
3.51- 7.50	1	1	2	1	3	4	7	5	2	2	1	0	0	0	0	0	29
7.51-12.50	4	3	2	0	1	6	6	4	3	4	3	0	0	0	0	2	38
12.51-18.50	1	0	0	0	0	2	0	0	7	1	0	0	2	1	0	3	17
18.51-24.00	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	4
>24.00	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
TOTAL	7	4	5	1	4	12	17	10	14	7	4	1	2	1	0	5	94

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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 DIRFCTION IN HOURS AT100.00 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	2	0	0	0	1	0	0	0	0	0	0	0	4
3.51- 7.50	6	5	5	2	2	5	10	5	8	4	5	2	0	1	0	2	62
7.51-12.50	23	3	1	2	3	6	4	7	10	13	8	2	1	2	1	11	97
12.51-18.50	3	1	0	2	0	2	3	0	1	1	2	1	10	2	2	7	37
18.51-24.00	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	1	6
>24.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
TOTAL	32	9	7	6	7	13	18	16	21	18	15	5	11	5	3	21	207

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 AT100.00 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	7	3	1	2	1	1	2	3	1	0	2	1	1	1	34
3.51- 7.50	18	9	7	5	12	22	11	17	15	9	9	9	4	4	2	6	159
7.51-12.50	25	22	9	12	12	24	18	18	22	24	4	10	7	8	5	19	239
12.51-18.50	8	7	5	5	6	17	15	17	24	2	4	6	6	3	6	28	159
18.51-24.00	0	0	0	0	0	1	4	15	9	1	1	0	3	1	3	2	38
>24.00	0	0	0	0	0	1	1	1	1	0	0	0	0	1	0	1	6
TOTAL	54	43	28	25	31	67	50	67	73	39	19	25	22	18	17	57	635

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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 AT100.00 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	3	6	4	2	2	2	4	1	3	0	0	2	1	33
3.51- 7.50	4	10	5	3	9	12	10	8	4	12	5	1	2	4	1	5	95
7.51-12.50	15	15	5	10	14	14	32	29	16	16	8	6	5	7	3	25	220
12.51-18.50	6	0	1	4	4	14	39	21	25	11	4	6	8	3	1	2	149
18.51-24.00	0	0	0	0	0	0	1	8	11	2	0	0	6	5	1	0	34
>24.00	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	4
TOTAL	26	26	12	20	33	44	84	70	60	45	18	16	21	19	8	33	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 AT100.00 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	2	1	2	1	0	0	0	2	0	0	0	0	2	0	12
3.51- 7.50	5	4	2	6	7	8	6	1	7	2	3	1	4	2	4	2	64
7.51-12.50	9	1	1	7	5	2	9	14	13	11	6	3	6	2	1	7	97
12.51-18.50	0	0	0	3	0	0	1	2	11	1	7	4	6	1	0	1	37
18.51-24.00	0	0	0	0	0	0	1	0	0	0	1	0	5	3	1	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	14	7	5	17	14	11	17	17	31	16	17	8	21	8	8	10	221

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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 AT100.00 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	1	0	0	0	0	1	0	1	0	3
3.51- 7.50	0	1	0	0	0	1	0	0	1	3	0	1	0	2	1	1	11
7.51-12.50	2	0	0	1	0	0	0	0	0	0	2	3	0	0	0	0	8
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	1	0	1	0	1	0	1	1	3	5	4	1	2	3	1	26

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 AT100.00 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	8	12	7	11	7	4	4	5	9	2	4	3	1	6	2	90
3.51- 7.50	34	30	22	18	33	55	44	37	37	32	24	14	10	13	8	16	427
7.51-12.50	78	44	18	32	35	53	77	73	66	68	31	24	19	19	10	64	711
12.51-18.50	18	8	6	14	10	36	60	43	73	16	17	17	32	10	10	41	411
18.51-24.00	0	0	0	0	0	2	8	25	25	3	5	0	14	9	5	3	99
>24.00	0	0	0	0	0	1	3	4	3	0	0	0	0	1	0	1	13
TOTAL	135	90	58	71	89	154	196	186	209	128	79	59	78	53	39	127	1751

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 9/30/96

*** JUL-SEP 1996 ***

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: 1751

TOTAL NUMBER OF MISSING OBSERVATIONS: 457

PERCENT DATA RECOVERY FOR THIS PERIOD: 79.3 %

MEAN WIND SPEED FOR THIS PERIOD: 10.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.88	5.37	11.82	36.26	30.55	12.62	1.48

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	1	1	0	6	10	5	9	0	1	0	0	0	0	0	0
B	7	4	5	1	4	12	17	10	14	7	4	1	2	1	0	5	0
C	32	9	7	6	7	13	18	16	21	18	15	5	11	5	3	21	0
D	54	43	28	25	31	67	50	67	73	39	19	25	22	18	17	57	0
E	26	26	12	20	33	44	84	70	60	45	18	16	21	19	8	33	0
F	14	7	5	17	14	11	17	17	31	16	17	8	21	8	8	10	0
G	2	1	0	1	0	1	0	1	1	3	5	4	1	2	3	1	0
TOTAL	135	90	58	71	89	154	196	186	209	128	79	59	78	53	39	127	0

JFDs of 100-Meter Wind vs. Delta T

October-December 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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 AT100.00 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	3	1	3	1	0	0	0	0	0	9
12.51-18.50	0	0	0	0	0	0	0	7	1	0	0	1	0	0	1	2	12
18.51-24.00	0	0	0	0	0	0	1	4	5	0	0	0	0	2	0	0	12
>24.00	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
TOTAL	0	0	0	0	0	0	2	15	8	3	1	1	0	2	1	2	35

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 AT100.00 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	1	1	0	0	0	0	0	3
7.51-12.50	1	1	0	0	0	2	4	1	5	3	0	0	1	0	0	1	19
12.51-18.50	5	0	0	0	0	0	2	0	11	1	0	0	0	0	1	2	22
18.51-24.00	5	0	0	0	0	1	0	5	8	0	0	0	0	0	1	3	23
>24.00	0	0	0	0	0	0	0	7	4	0	0	0	0	0	0	0	11
TOTAL	11	1	0	0	0	4	6	13	28	5	1	0	1	0	2	6	78

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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 AT100.00 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	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	4	0	1	0	0	0	2	0	1	3	0	0	0	0	0	1	12
7.51-12.50	9	1	0	0	0	3	4	3	4	0	3	2	1	1	0	3	34
12.51-18.50	17	1	0	0	0	0	2	1	8	1	0	0	2	1	4	24	61
18.51-24.00	0	0	0	1	0	2	2	1	6	0	0	0	0	1	0	7	20
>24.00	0	0	0	0	0	0	0	3	0	0	0	0	0	0	2	0	5
TOTAL	32	2	1	1	0	5	10	8	19	4	3	2	3	3	6	35	134

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 AT100.00 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	3	2	1	2	1	2	0	0	4	2	1	2	4	1	32
3.51- 7.50	25	16	8	6	9	6	11	5	7	11	7	3	3	3	3	14	137
7.51-12.50	44	12	3	15	18	38	13	17	13	7	5	11	9	8	20	31	264
12.51-18.50	45	16	3	4	10	24	14	24	14	7	0	0	7	20	70	57	315
18.51-24.00	15	2	0	0	2	8	12	24	16	3	0	0	1	24	49	28	184
>24.00	1	0	0	0	0	0	3	14	13	1	2	2	3	10	11	9	69
TOTAL	135	48	17	27	40	78	54	86	63	29	18	18	24	67	157	140	1001

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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 AT100.00 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	3	0	1	0	1	2	0	1	0	0	1	0	0	0	10
3.51- 7.50	3	4	3	3	1	5	4	1	3	4	0	5	2	3	4	2	47
7.51-12.50	4	5	8	6	2	2	3	12	16	15	4	3	3	3	4	6	96
12.51-18.50	7	4	3	0	2	6	11	26	59	13	1	1	0	10	12	7	162
18.51-24.00	1	0	0	1	2	0	2	17	25	2	0	0	1	17	2	2	72
>24.00	0	0	0	0	1	0	1	5	5	0	0	0	1	7	1	0	21
TOTAL	16	13	17	10	9	13	22	63	108	35	5	9	8	40	23	17	408

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 AT100.00 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	2	1	0	0	0	0	0	0	1	0	0	0	0	0	5
3.51- 7.50	2	1	0	0	2	1	4	4	2	5	3	1	0	0	0	0	25
7.51-12.50	1	2	0	0	0	0	2	12	4	14	2	2	1	1	0	0	41
12.51-18.50	0	0	0	0	0	0	1	7	7	6	0	0	3	1	0	0	25
18.51-24.00	0	0	0	0	1	1	0	1	0	0	0	0	2	1	0	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	4	2	1	3	2	7	24	13	25	6	3	6	3	0	0	102

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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 AT100.00 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	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	5
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	2	1	0	0	3
>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	0	0	0	4	2	0	2	1	0	0	10

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 AT100.00 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	8	3	2	2	2	4	0	1	5	2	2	2	4	1	50
3.51- 7.50	34	21	12	9	12	13	21	10	13	25	11	9	5	6	7	17	225
7.51-12.50	59	21	11	21	20	45	27	48	43	45	17	18	15	13	24	41	468
12.51-18.50	74	21	6	4	12	30	30	65	100	28	1	2	12	32	88	92	597
18.51-24.00	21	2	0	2	5	12	17	52	60	5	0	0	6	46	52	40	320
>24.00	1	0	0	0	1	0	4	30	23	1	2	2	4	17	14	9	108
TOTAL	197	69	37	39	52	102	101	209	239	105	36	33	44	116	189	200	1[illegible]3

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/96 - 12/31/96

*** OCT-DEC 1996 ***

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: 1768

TOTAL NUMBER OF MISSING OBSERVATIONS: 440

PERCENT DATA RECOVERY FOR THIS PERIOD: 80.1 %

MEAN WIND SPEED FOR THIS PERIOD: 14.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.98	4.41	7.58	56.62	23.08	5.77	0.57

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	2	15	8	3	1	1	0	2	1	2	0
B	11	1	0	0	0	4	6	13	28	5	1	0	1	0	2	6	0
C	32	2	1	1	0	5	10	8	19	4	3	2	3	3	6	35	0
D	135	48	17	27	40	78	54	86	63	29	18	18	24	67	157	140	0
E	16	13	17	10	9	13	22	63	108	35	5	9	8	40	23	17	0
F	3	4	2	1	3	2	7	24	13	25	6	3	6	3	0	0	0
G	0	1	0	0	0	0	0	0	0	4	2	0	2	1	0	0	0
TOTAL	197	69	37	39	52	102	101	209	239	105	36	33	44	116	189	200	0

JFDs of 100-Meter Wind vs. Delta T

July-December 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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 AT100.00 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	1	1	0	3	0	1	0	0	1	0	0	0	0	0	7
7.51-12.50	0	0	0	0	0	1	9	4	3	3	1	0	0	0	0	0	21
12.51-18.50	0	0	0	0	0	1	2	10	6	0	0	1	0	0	1	2	23
18.51-24.00	0	0	0	0	0	1	1	4	7	0	0	0	0	2	0	0	15
>24.00	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
TOTAL	0	0	1	1	0	6	12	20	17	3	2	1	0	2	1	2	68

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 AT100.00 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	1	0	0	0	1	0	0	0	0	1	0	0	0	0	4
3.51- 7.50	1	1	2	1	3	5	7	5	2	3	2	0	0	0	0	0	32
7.51-12.50	5	4	2	0	1	8	10	5	8	7	3	0	1	0	0	3	57
12.51-18.50	6	0	0	0	0	2	2	0	18	2	0	0	2	1	1	5	39
18.51-24.00	5	0	0	0	0	1	1	6	10	0	0	0	0	0	1	3	27
>24.00	0	0	0	0	0	0	2	7	4	0	0	0	0	0	0	0	13
TOTAL	18	5	5	1	4	16	23	23	42	12	5	1	3	1	2	11	172

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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 AT100.00 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	1	0	2	0	0	0	1	0	0	0	0	0	0	0	6
3.51- 7.50	10	5	6	2	2	5	12	5	9	7	5	2	0	1	0	3	74
7.51-12.50	32	4	1	2	3	9	8	10	14	13	11	4	2	3	1	14	131
12.51-18.50	20	2	0	2	0	2	5	1	9	2	2	1	12	3	6	31	98
18.51-24.00	0	0	0	1	0	2	3	4	7	0	0	0	0	1	0	8	26
>24.00	0	0	0	0	0	0	0	4	0	0	0	0	0	0	2	0	6
TOTAL	64	11	8	7	7	18	28	24	40	22	18	7	14	8	9	56	341

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 AT100.00 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	7	10	5	2	4	2	3	2	3	5	2	3	3	5	2	66
3.51- 7.50	43	25	15	11	21	28	22	22	22	20	16	12	7	7	5	20	296
7.51-12.50	69	34	12	27	30	62	31	35	35	31	9	21	16	16	25	50	503
12.51-18.50	53	23	8	9	16	41	29	41	38	9	4	6	13	23	76	85	474
18.51-24.00	15	2	0	0	2	9	16	37	25	4	1	0	4	25	52	30	222
>24.00	1	0	0	0	0	1	4	15	14	1	2	2	3	11	11	10	75
TOTAL	189	91	45	52	71	145	104	153	136	68	37	43	46	85	174	197	1636

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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 AT100.00 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	4	3	7	4	3	4	2	5	1	3	1	0	2	1	43
3.51- 7.50	7	14	8	6	10	17	14	9	7	16	5	6	4	7	5	7	142
7.51-12.50	19	20	13	16	16	16	35	41	32	31	12	9	8	10	7	31	316
12.51-18.50	13	4	4	4	6	20	50	47	84	24	5	7	8	13	13	9	311
18.51-24.00	1	0	0	1	2	0	3	25	36	4	0	0	7	22	3	2	106
>24.00	0	0	0	0	1	0	1	7	7	0	0	0	1	7	1	0	25
TOTAL	42	39	29	30	42	57	106	133	168	80	23	25	29	59	31	50	943

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 AT100.00 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	4	2	2	1	0	0	0	2	1	0	0	0	2	0	17
3.51- 7.50	7	5	2	6	9	9	10	5	9	7	6	2	4	2	4	2	89
7.51-12.50	10	3	1	7	5	2	11	26	17	25	8	5	7	3	1	7	138
12.51-18.50	0	0	0	3	0	0	2	9	18	7	7	4	9	2	0	1	62
18.51-24.00	0	0	0	0	1	1	1	1	0	0	1	0	7	4	1	0	17
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17	11	7	18	17	13	24	41	44	41	23	11	27	11	8	10	323

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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 AT100.00 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	0	0	0	0	1	0	0	0	0	1	0	1	0	4
3.51- 7.50	0	1	0	0	0	1	0	0	1	4	0	1	0	2	1	1	12
7.51-12.50	2	0	0	1	0	0	0	0	0	3	4	3	0	0	0	0	13
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	3	0	2	1	0	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	2	0	1	0	1	0	1	1	7	7	4	3	3	3	1	36

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 AT100.00 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	13	12	20	10	13	9	6	8	5	10	7	6	5	3	10	3	140
3.51- 7.50	68	51	34	27	45	68	65	47	50	57	35	23	15	19	15	33	652
7.51-12.50	137	65	29	53	55	98	104	121	109	113	48	42	34	32	34	105	1179
12.51-18.50	92	29	12	18	22	66	90	108	173	44	18	19	44	42	98	133	1008
18.51-24.00	21	2	0	2	5	14	25	77	85	8	5	0	20	55	57	43	419
>24.00	1	0	0	0	1	1	7	34	26	1	2	2	4	18	14	10	121
TOTAL	332	159	95	110	141	256	297	395	448	233	115	92	122	169	228	327	3519

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

*** JUL-DEC 1996 ***

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: 3519

TOTAL NUMBER OF MISSING OBSERVATIONS: 897

PERCENT DATA RECOVERY FOR THIS PERIOD: 79.7 %

MEAN WIND SPEED FOR THIS PERIOD: 12.4 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

B226

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.93	4.89	9.69	46.49	26.80	9.18	1.02

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	1	1	0	6	12	20	17	3	2	1	0	2	1	2	0
B	18	5	5	1	4	16	23	23	42	12	5	1	3	1	2	11	0
C	64	11	8	7	7	18	28	24	40	22	18	7	14	8	9	56	0
D	189	91	45	52	71	145	104	153	136	68	37	43	46	85	174	197	0
E	42	39	29	30	42	57	106	133	168	80	23	25	29	59	31	50	0
F	17	11	7	18	17	13	24	41	44	41	23	11	27	11	8	10	0
G	2	2	0	1	0	1	0	1	1	7	7	4	3	3	3	1	0
TOTAL	332	159	95	110	141	256	297	395	448	233	115	92	122	169	228	327	0

JFDs of 100-Meter Wind vs. Delta T

January-December 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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 AT100.00 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	1	1	0	1	0	0	1	0	0	1	0	0	0	5
3.51- 7.50	0	0	2	2	2	4	0	1	0	0	1	0	0	0	0	0	12
7.51-12.50	3	0	1	0	0	1	11	7	3	3	1	0	0	0	0	1	31
12.51-18.50	3	0	0	1	1	1	5	11	9	2	0	1	0	0	3	10	47
18.51-24.00	0	0	0	2	1	2	2	6	19	0	0	0	0	4	1	6	43
>24.00	1	0	0	0	0	0	0	1	3	0	0	0	0	1	0	0	6
TOTAL	7	0	3	6	5	8	19	26	34	6	2	1	1	5	4	17	144

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 AT100.00 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	1	0	0	0	1	1	1	1	1	1	0	0	0	0	10
3.51- 7.50	3	1	2	1	3	6	8	8	2	3	2	0	0	0	0	2	41
7.51-12.50	15	4	6	1	4	9	11	18	9	9	3	0	1	1	0	5	96
12.51-18.50	12	0	2	4	5	2	4	4	25	6	0	0	2	5	9	14	94
18.51-24.00	7	1	0	1	3	2	3	8	18	1	0	0	1	4	6	8	63
>24.00	4	0	0	0	0	0	3	8	7	0	0	0	0	5	5	3	35
TOTAL	42	8	11	7	15	19	30	47	62	20	6	1	4	15	20	32	339

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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 AT100.00 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	1	0	2	0	0	0	1	1	0	0	0	0	0	0	7
3.51- 7.50	15	8	7	5	2	6	15	9	11	8	6	2	0	2	0	5	101
7.51-12.50	40	6	3	9	7	11	11	17	22	18	12	4	5	6	2	23	196
12.51-18.50	35	5	3	3	2	6	19	8	17	7	4	1	12	7	16	40	185
18.51-24.00	5	0	0	1	4	2	7	9	11	1	0	2	1	10	13	24	90
>24.00	3	0	0	0	0	2	2	4	4	1	0	0	2	4	11	8	41
TOTAL	100	19	14	18	17	27	54	47	66	36	22	9	20	29	42	100	620

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 AT100.00 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	11	13	7	3	5	5	4	6	5	5	3	3	4	5	2	89
3.51- 7.50	64	34	23	20	30	49	40	39	32	33	24	19	16	16	14	34	478
7.51-12.50	136	61	36	68	54	117	67	66	61	68	20	28	23	32	65	114	1016
12.51-18.50	150	59	27	35	36	78	100	87	82	39	13	10	18	47	185	183	1149
18.51-24.00	70	17	3	5	5	15	37	56	57	15	3	1	6	45	123	92	550
>24.00	27	0	0	0	0	7	6	19	27	6	2	2	3	23	76	69	267
TOTAL	455	182	102	135	128	271	255	262	265	166	67	63	69	167	468	494	3549

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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 AT100.00 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	4	4	5	9	4	6	7	7	9	2	5	2	0	3	2	74
3.51- 7.50	23	24	11	9	17	27	21	17	13	29	16	11	8	10	10	13	259
7.51-12.50	33	26	19	23	26	33	51	50	52	59	29	10	15	26	24	69	545
12.51-18.50	27	21	10	14	12	49	81	70	132	66	19	11	21	33	31	23	620
18.51-24.00	6	0	1	3	2	4	15	45	78	17	4	3	10	39	15	5	247
>24.00	1	0	0	0	1	3	6	12	23	4	1	3	4	17	4	0	79
TOTAL	95	75	45	54	67	120	180	201	305	184	71	43	60	125	87	112	1824

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 AT100.00 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	7	4	2	3	1	1	1	3	2	3	1	2	2	4	0	37
3.51- 7.50	12	9	3	9	11	11	13	12	17	15	15	6	7	4	6	13	163
7.51-12.50	13	5	3	7	7	4	12	36	30	41	13	10	10	15	6	16	228
12.51-18.50	0	0	0	5	2	1	7	21	30	25	8	10	15	10	3	6	143
18.51-24.00	0	0	0	0	1	1	3	3	2	1	2	12	13	11	3	0	58
>24.00	0	0	0	0	0	0	1	0	0	0	1	1	1	8	0	0	12
TOTAL	26	21	10	23	24	18	37	73	82	84	42	40	48	56	22	35	641

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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 AT100.00 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	0	0	0	2	2	0	0	0	0	1	0	1	0	7
3.51- 7.50	1	1	0	0	0	1	1	1	1	4	2	2	1	4	1	1	21
7.51-12.50	2	0	0	1	0	0	0	2	1	5	4	10	6	4	0	1	36
12.51-18.50	0	0	0	0	0	0	0	0	1	1	4	1	4	5	1	0	17
18.51-24.00	0	0	0	0	0	0	0	0	0	0	4	3	4	2	0	0	13
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
TOTAL	3	2	0	1	0	1	3	5	3	10	14	17	17	15	3	2	96

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 AT100.00 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	17	25	23	15	18	10	16	15	18	19	11	10	9	6	13	4	229
3.51- 7.50	118	77	48	46	65	104	98	78	76	92	66	40	32	36	31	68	1075
7.51-12.50	242	102	68	109	98	175	163	196	178	203	82	62	60	84	97	229	2148
12.51-18.50	227	85	42	62	58	137	216	201	296	146	48	34	72	107	248	276	2255
18.51-24.00	98	18	4	12	16	26	67	127	185	35	13	21	35	121	161	135	1064
>24.00	36	0	0	0	1	12	18	44	64	11	4	7	11	58	96	80	442
TOTAL	728	307	185	244	256	464	578	661	817	506	224	174	219	412	646	792	7213

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/96 - 12/31/96

*** JAN-DEC 1996 ***

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: 8784

TOTAL NUMBER OF VALID OBSERVATIONS: 7213

TOTAL NUMBER OF MISSING OBSERVATIONS: 1571

PERCENT DATA RECOVERY FOR THIS PERIOD: 82.1 %

MEAN WIND SPEED FOR THIS PERIOD: 13.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.00	4.70	8.60	49.20	25.29	8.89	1.33

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	7	0	3	6	5	8	19	26	34	6	2	1	1	5	4	17	0
B	42	8	11	7	15	19	30	47	62	20	6	1	4	15	20	32	0
C	100	19	14	18	17	27	54	47	66	36	22	9	20	29	42	100	0
D	455	182	102	135	128	271	255	262	265	166	67	63	69	167	468	494	0
E	95	75	45	54	67	120	180	201	305	184	71	43	60	125	87	112	0
F	26	21	10	23	24	18	37	73	82	84	42	40	48	56	22	35	0
G	3	2	0	1	0	1	3	5	3	10	14	17	17	15	3	2	0
TOTAL	728	307	185	244	256	464	578	661	817	506	224	174	219	412	646	792	0

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

July-December 1996

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	7	1	F	F	F	F	F	F	E	D	B	B	A	-	-	-	-	A	B	C	C	E	E	E	E	E
96	7	2	E	E	E	E	E	E	E	D	D	D	C	B	C	D	D	D	D	D	E	E	E	E	E	E
96	7	3	E	E	E	E	E	E	D	C	-	-	-	-	-	-	-	D	D	D	D	D	E	E	E	-
96	7	4	-	-	-	-	-	-	-	-	-	-	B	A	A	A	B	A	B	C	D	D	D	D	D	D
96	7	5	D	D	D	D	D	D	C	C	B	A	-	-	-	-	-	-	-	B	D	D	E	E	E	E
96	7	6	E	E	E	D	E	D	D	B	B	A	C	D	D	D	B	B	C	D	E	E	E	E	E	E
96	7	7	E	E	E	D	C	C	D	C	C	C	C	B	-	-	-	B	C	D	D	F	F	F	F	F
96	7	8	F	E	-	D	E	E	D	D	D	D	C	C	D	C	C	C	D	D	D	E	E	F	F	E
96	7	9	F	F	F	F	F	E	D	D	D	C	B	B	B	C	B	B	D	D	D	E	F	F	F	G
96	7	10	G	G	F	F	F	G	F	D	C	A	A	A	A	A	D	D	D	D	D	E	F	F	F	F
96	7	11	E	E	E	E	E	E	D	C	C	B	C	C	B	C	B	A	B	D	D	D	D	E	D	E
96	7	12	D	D	D	D	D	D	D	D	D	C	C	C	B	C	C	D	D	D	E	F	F	G	F	F
96	7	13	G	G	G	G	G	G	F	D	D	C	B	A	B	D	D	D	D	D	D	D	E	E	E	E
96	7	14	E	D	D	D	E	E	E	E	C	C	B	B	C	C	C	D	D	D	E	F	F	G	G	G
96	7	15	F	F	E	E	F	F	E	E	D	C	C	C	C	D	D	D	D	D	E	E	E	F	F	F
96	7	16	F	F	E	E	F	E	E	E	B	C	D	D	-	-	-	C	D	D	D	D	D	D	D	D
96	7	17	D	D	D	E	E	E	D	D	D	D	B	-	-	-	-	-	C	D	D	E	E	E	E	E
96	7	18	E	E	E	E	E	E	D	D	C	C	C	B	B	C	C	D	D	D	E	F	F	F	E	E
96	7	19	E	E	F	F	F	F	D	C	D	D	-	-	-	-	-	-	-	-	D	E	D	D	D	-
96	7	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	7	21	-	-	-	-	-	-	-	-	-	-	C	C	D	D	C	B	D	D	D	D	E	E	D	E
96	7	22	E	E	E	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	E	E	E	F	E
96	7	23	E	F	F	F	F	E	E	D	D	D	C	C	D	D	D	D	D	D	E	E	F	F	F	F
96	7	24	E	F	F	E	E	E	D	D	D	D	D	C	C	D	D	D	D	D	D	E	F	F	F	F
96	7	25	F	F	E	E	E	E	E	D	D	D	C	C	C	C	C	C	D	D	D	E	F	F	F	F
96	7	26	F	F	F	F	E	E	E	D	D	D	D	D	C	C	C	C	C	C	D	D	D	D	D	D
96	7	27	D	D	D	D	C	D	D	E	C	C	A	A	A	A	A	B	C	C	D	D	D	E	D	D
96	7	28	D	D	D	E	D	E	D	D	C	C	C	B	D	D	D	D	D	D	E	F	F	F	F	F
96	7	29	F	F	E	E	-	-	D	D	D	C	C	B	C	C	D	D	D	D	D	E	F	F	E	E
96	7	30	E	F	E	E	E	D	D	C	C	C	B	C	C	C	D	D	D	D	D	E	E	E	E	E
96	7	31	E	E	E	E	E	E	E	D	D	D	C	D	D	D	D	D	D	D	E	E	E	E	E	E
96	8	1	E	E	E	E	E	D	D	D	D	C	C	D	D	B	C	D	D	D	D	D	D	D	E	E
96	8	2	E	E	D	D	D	D	D	D	C	C	B	A	A	A	B	B	D	D	D	E	E	E	E	E
96	8	3	E	E	E	E	E	D	-	-	-	-	-	-	-	-	-	C	D	D	D	D	D	D	E	
96	8	4	D	D	D	D	-	-	-	-	-	C	D	A	B	B	B	C	C	D	D	D	E	E	D	E	E
96	8	5	E	E	D	D	C	D	D	C	A	D	D	C	C	C	B	D	D	D	D	D	E	E	E	E	E
96	8	6	E	E	D	D	D	D	D	D	D	C	C	A	A	B	B	B	C	D	D	D	E	E	E	E	E
96	8	7	E	D	D	E	D	E	D	D	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
96	8	8	F	F	F	F	F	F	F	D	D	D	C	C	C	C	B	D	D	D	E	F	F	G	G	G
96	8	9	G	G	F	G	G	G	F	D	D	D	D	C	C	C	C	C	D	D	E	E	F	F	F	F
96	8	10	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	D	D
96	8	11	D	D	D	D	-	-	-	-	-	G	-	D	D	D	D	D	D	D	D	E	E	E	E	E
96	8	12	E	F	F	F	E	E	D	D	D	E	E	D	C	C	C	D	D	D	E	F	F	F	F	F
96	8	13	F	F	F	F	F	F	E	E	D	D	D	C	C	D	D	D	D	D	E	E	E	F	F	F

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	8	15	E	E	E	E	D	D	D	D	D	D	C	B	B	C	B	C	D	D	E	E	E	E	E	E
96	8	16	E	E	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	8	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	-	-	-
96	8	18	-	-	-	-	-	-	-	-	-	-	C	C	B	C	C	C	D	D	D	E	E	E	E	D
96	8	19	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	-	-	-	-	-	-	-	-
96	8	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	E	E	E	E	-
96	8	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	E	E	E	E	E
96	8	22	E	E	E	E	E	D	D	D	C	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	8	23	-	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	D	D	E	E	E	E	E	E
96	8	24	D	D	D	D	D	D	D	D	C	C	B	A	B	A	B	B	B	B	E	F	F	F	F	F
96	8	25	F	F	E	E	E	E	E	D	D	D	C	B	B	C	B	C	B	C	D	E	E	E	E	E
96	8	26	E	E	E	E	E	E	E	D	D	C	B	C	B	B	B	B	D	D	D	E	D	D	E	E
96	8	27	D	D	-	-	-	-	-	-	-	-	-	-	C	C	D	D	D	D	D	E	E	E	D	-
96	8	28	-	-	-	-	-	-	-	-	-	-	-	-	-	C	D	C	D	D	E	F	F	E	E	F
96	8	29	F	F	F	F	-	-	-	-	E	D	B	C	B	D	D	D	D	D	D	E	F	F	E	E
96	8	30	E	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	E	E	E	E	E	D
96	8	31	E	E	E	E	E	E	E	D	-	-	-	-	-	-	-	-	-	-	D	E	E	E	E	E
96	9	1	E	E	E	E	E	E	D	D	D	C	B	B	B	A	A	B	C	D	D	E	E	E	D	D
96	9	2	D	D	D	D	D	E	D	D	C	-	-	-	-	-	-	-	-	D	E	E	F	E	E	E
96	9	3	E	E	E	E	E	E	D	D	D	C	D	-	-	-	-	-	-	D	E	E	E	E	E	E
96	9	4	E	E	E	E	E	E	E	D	-	-	-	-	-	-	-	-	-	D	E	E	F	E	E	E
96	9	5	E	E	E	E	E	E	E	D	-	-	-	-	-	-	-	-	-	D	E	E	E	E	E	E
96	9	6	E	E	E	E	E	E	E	D	D	-	-	-	-	-	-	-	-	D	E	E	F	F	E	E
96	9	7	E	F	F	E	F	E	E	D	D	D	D	B	B	B	B	D	E	C	-	-	-	-	-	-
96	9	8	-	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	D	D	D	E	E	E	E	E
96	9	9	E	F	F	F	F	F	F	E	D	D	D	-	-	-	-	-	-	-	-	F	F	F	F	F
96	9	10	F	F	F	F	E	F	E	E	D	-	-	-	-	-	-	-	-	-	-	F	F	E	E	E
96	9	11	F	E	F	F	F	E	F	E	D	-	-	-	-	C	D	D	D	D	E	E	E	E	D	D
96	9	12	D	D	D	D	E	E	E	D	D	C	C	C	B	C	D	D	D	D	D	D	E	E	E	E
96	9	13	E	D	D	D	E	E	E	D	C	C	C	C	B	B	B	A	D	D	E	F	F	F	F	F
96	9	14	F	F	E	E	E	E	E	D	D	C	-	-	-	-	-	D	D	D	E	E	E	E	E	E
96	9	15	E	E	E	E	D	-	-	-	-	-	-	C	C	C	D	D	D	D	D	D	D	D	D	D
96	9	16	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-	D	D	D	E	F	F	F	E	E
96	9	17	E	E	E	E	E	D	D	D	-	-	-	-	-	-	-	-	-	D	E	E	E	E	E	E
96	9	18	E	E	D	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	E	D	D	D	D
96	9	19	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E	D	D	D
96	9	20	D	D	D	E	E	E	E	E	D	C	C	B	B	D	B	C	D	E	F	F	F	E	F	E
96	9	21	F	F	F	F	F	E	E	D	D	D	C	B	B	C	B	C	D	E	-	-	-	-	-	-
96	9	22	-	-	-	-	-	-	-	-	-	D	C	B	C	B	A	B	D	D	E	D	D	E	D	E
96	9	23	E	E	E	D	D	D	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	E
96	9	24	E	E	E	E	E	E	E	D	D	C	C	C	C	D	D	D	E	E	F	F	F	F	E	E
96	9	25	E	E	E	E	E	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	9	26	-	-	-	-	-	-	-	-	-	C	D	C	D	D	D	D	D	D	E	F	F	F	F	F
96	9	27	E	E	E	E	E	E	E	E	D	C	C	C	C	C	D	D	D	E	E	E	E	E	E	E
96	9	28	E	E	F	F	F	F	E	D	D	C	C	C	C	C	C	C	D	E	F	G	G	G	F	F

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	9	29	F	F	F	F	F	F	F	E	D	D	C	B	D	D	D	D	D	E	F	F	F	F	E	E
96	9	30	E	E	E	E	E	E	E	D	D	C	-	-	-	-	-	B	D	D	E	E	E	E	E	E
96	10	1	E	E	E	E	E	E	E	D	D	B	B	A	B	A	A	B	D	D	E	E	E	E	E	E
96	10	2	E	F	F	D	D	D	D	D	D	D	B	B	B	B	B	C	D	D	E	E	E	E	E	E
96	10	3	E	E	E	E	E	E	E	D	D	C	B	B	C	B	B	B	D	D	E	E	E	E	E	E
96	10	4	E	E	E	E	E	D	D	D	C	C	C	B	B	A	A	B	D	E	E	E	E	E	E	F
96	10	5	F	F	F	F	F	F	E	E	D	C	B	B	B	B	B	B	D	E	E	E	E	E	E	E
96	10	6	E	E	D	D	-	-	-	-	-	-	-	C	C	C	D	D	D	D	E	E	E	D	D	D
96	10	7	D	D	D	D	D	D	C	-	-	B	D	D	C	B	D	D	D	E	E	F	F	F	G	F
96	10	8	F	F	F	F	F	F	F	F	E	E	D	C	D	D	C	D	E	E	F	F	F	F	F	F
96	10	9	F	E	E	E	E	E	E	D	D	D	C	C	C	D	C	D	D	E	E	E	E	E	E	E
96	10	10	E	E	E	D	D	E	E	D	D	C	C	C	C	C	C	D	D	E	F	F	F	F	F	F
96	10	11	E	E	E	E	E	E	D	D	D	C	B	A	B	B	B	C	D	E	E	E	E	E	E	E
96	10	12	E	E	E	E	E	E	E	D	D	C	B	A	B	B	B	C	D	E	E	E	E	E	F	E
96	10	13	E	E	E	E	E	E	E	D	D	C	C	B	B	C	B	C	D	E	F	F	F	E	E	E
96	10	14	E	E	E	E	E	E	E	E	D	C	B	A	A	B	B	C	D	E	E	E	E	E	E	E
96	10	15	E	E	E	E	E	F	F	E	D	D	D	C	C	D	D	D	D	E	E	E	F	F	F	F
96	10	16	E	E	D	D	D	D	D	D	C	C	B	A	A	A	A	B	D	D	E	D	E	D	D	D
96	10	17	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
96	10	18	E	E	E	E	E	E	E	E	D	D	D	B	C	C	C	C	D	E	F	F	F	F	E	E
96	10	19	E	E	E	E	E	E	E	E	D	D	B	B	B	B	C	D	D	E	E	E	E	D	D	D
96	10	20	D	E	E	D	D	D	E	E	D	C	B	A	B	C	B	C	D	E	E	D	D	D	D	D
96	10	21	D	D	D	D	D	D	D	D	D	D	C	C	D	C	D	D	D	D	D	D	D	D	D	D
96	10	22	D	D	D	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	23	-	-	-	C	D	D	D	D	D	D	D	D	D	D	D	D	E	-	-	-	-	-	-	-
96	10	24	-	-	-	-	-	-	-	-	-	-	-	D	C	C	D	D	E	E	E	E	E	E	E	E
96	10	25	E	E	E	E	D	D	D	D	D	D	C	C	D	D	C	C	D	E	E	E	E	F	E	D
96	10	26	D	D	B	A	A	A	A	A	B	D	D	D	D	D	D	D	E	E	F	F	F	F	E	E
96	10	27	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	10	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	11	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	E	E	E	E	E
96	11	9	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	D	D	D	D	D	D
96	11	10	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	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

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	11	13	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	14	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	15	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D
96	11	16	D	D	D	D	D	C	B	B	C	B	B	D	D	D	A	A	-	-	-	-	-	-	-	-
96	11	17	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
96	11	18	E	E	E	D	D	D	D	E	D	D	D	D	B	C	D	D	D	D	E	E	E	E	D	D
96	11	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	11	20	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	B	D	D	C	B	C	B	C
96	11	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
96	11	22	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D
96	11	23	D	D	E	E	E	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	B	B
96	11	24	B	C	C	C	C	D	C	D	C	C	C	C	C	C	C	D	D	D	D	D	D	D	D	D
96	11	25	D	D	D	D	D	D	D	D	D	D	C	B	B	C	C	D	D	D	D	D	D	D	D	D
96	11	26	D	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D
96	11	27	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	E
96	11	28	F	F	E	F	F	F	E	F	E	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
96	11	29	E	E	D	D	D	C	B	B	B	A	A	A	A	A	A	A	B	B	B	B	B	A	A	A
96	11	30	A	C	C	C	C	C	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	12	1	D	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	D
96	12	2	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	E	D	C	A	A	B	C	C	D
96	12	3	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
96	12	4	F	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	D	D	D	D
96	12	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
96	12	6	E	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	G	F	G
96	12	7	G	F	E	E	F	F	E	E	D	D	D	D	D	D	D	D	F	E	E	E	E	E	E	E
96	12	8	E	E	E	E	E	E	E	E	E	D	D	D	C	C	D	D	D	E	E	E	E	E	E	E
96	12	9	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F	E	F
96	12	10	G	G	G	G	G	G	F	F	F	E	E	D	D	D	D	E	E	E	F	E	D	D	D	D
96	12	11	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-
96	12	12	-	-	-	-	-	-	D	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
96	12	13	E	E	D	D	D	-	-	-	-	-	-	-	D	D	D	D	D	E	E	E	E	-	-	-
96	12	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D
96	12	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F	F
96	12	16	F	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	12	17	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
96	12	18	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D
96	12	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
96	12	20	E	E	F	F	F	F	E	E	E	D	D	C	C	C	C	D	D	E	E	D	D	E	E	E
96	12	21	E	E	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	F	E	E	E	D
96	12	22	D	D	C	C	C	C	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D
96	12	23	D	C	C	C	C	C	C	C	C	C	C	C	C	C	D	D	D	D	D	D	D	D	D	D
96	12	24	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D
96	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
96	12	26	D	D	D	D	D	D	D	D	D	C	C	B	B	B	C	D	D	D	D	D	E	E	E	E
96	12	27	E	E	E	D	D	D	D	D	D	-	-	-	-	-	-	D	D	E	E	E	E	F	F	E

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1996
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/96 - 12/31/96

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
96	12	28	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	-	-	-	D	D	D	D	D	D
96	12	29	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	E	E	E	E	E
96	12	30	E	E	F	E	E	D	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D
96	12	31	D	D	D	D	D	D	D	D	C	D	C	C	C	D	D	D	D	D	D	-	-	-	-	-

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 1996: January-March, April-June, January-June, July-September, October-December, July-December, and January-December. *

* The 10 meter wind direction values for the months of July, August and September were taken from the 10 meter back-up tower.

Atmospheric Diffusion Estimates

Ground Level Releases

January-March 1996

VENTS GROUND LEVEL RELEASES - JAN-MAR 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.763E-05	9.235E-06	4.992E-06	2.510E-06	9.958E-07	5.346E-07	3.367E-07	2.339E-07	1.734E-07	1.348E-07	1.085E-07
SSW	2.103E-05	6.802E-06	3.501E-06	1.731E-06	7.094E-07	3.897E-07	2.498E-07	1.759E-07	1.320E-07	1.037E-07	8.423E-08
SW	1.202E-05	3.849E-06	2.029E-06	1.017E-06	4.157E-07	2.278E-07	1.457E-07	1.025E-07	7.677E-08	6.020E-08	4.884E-08
WSW	6.713E-06	2.365E-06	1.275E-06	6.344E-07	2.451E-07	1.291E-07	8.005E-08	5.488E-08	4.025E-08	3.098E-08	2.472E-08
W	6.512E-06	2.369E-06	1.278E-06	6.336E-07	2.438E-07	1.280E-07	7.918E-08	5.418E-08	3.967E-08	3.049E-08	2.429E-08
WNW	1.493E-05	5.264E-06	2.825E-06	1.404E-06	5.437E-07	2.868E-07	1.781E-07	1.223E-07	8.978E-08	6.917E-08	5.525E-08
NW	4.650E-05	1.459E-05	7.472E-06	3.704E-06	1.535E-06	8.498E-07	5.478E-07	3.877E-07	2.921E-07	2.301E-07	1.874E-07
NNW	5.409E-05	1.724E-05	9.155E-06	4.611E-06	1.896E-06	1.044E-06	6.698E-07	4.723E-07	3.547E-07	2.786E-07	2.264E-07
N	5.543E-05	1.751E-05	9.425E-06	4.786E-06	1.970E-06	1.085E-06	6.961E-07	4.908E-07	3.685E-07	2.895E-07	2.352E-07
NNE	4.240E-05	1.325E-05	6.910E-06	3.459E-06	1.429E-06	7.891E-07	5.076E-07	3.586E-07	2.697E-07	2.122E-07	1.727E-07
NE	1.467E-05	4.658E-06	2.474E-06	1.246E-06	5.104E-07	2.802E-07	1.795E-07	1.264E-07	9.482E-08	7.443E-08	6.043E-08
ENE	2.371E-05	7.531E-06	4.075E-06	2.074E-06	8.505E-07	4.669E-07	2.989E-07	2.104E-07	1.577E-07	1.237E-07	1.004E-07
E	1.609E-05	5.235E-06	2.855E-06	1.451E-06	5.880E-07	3.201E-07	2.037E-07	1.426E-07	1.065E-07	8.327E-08	6.736E-08
ESE	2.888E-05	1.006E-05	5.405E-06	2.696E-06	1.064E-06	5.691E-07	3.574E-07	2.476E-07	1.833E-07	1.422E-07	1.143E-07
SE	3.845E-05	1.351E-05	7.298E-06	3.644E-06	1.425E-06	7.567E-07	4.725E-07	3.258E-07	2.401E-07	1.856E-07	1.486E-07
SSE	3.575E-05	1.189E-05	6.419E-06	3.233E-06	1.298E-06	6.947E-07	4.385E-07	3.051E-07	2.266E-07	1.763E-07	1.420E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.977E-08	4.611E-08	2.988E-08	1.715E-08	1.163E-08	8.620E-09	6.759E-09	5.508E-09	4.616E-09	3.952E-09	3.441E-09
SSW	7.023E-08	3.715E-08	2.458E-08	1.452E-08	1.004E-08	7.556E-09	5.999E-09	4.941E-09	4.179E-09	3.607E-09	3.163E-09
SW	4.067E-08	2.141E-08	1.411E-08	8.292E-09	5.711E-09	4.286E-09	3.394E-09	2.789E-09	2.354E-09	2.028E-09	1.776E-09
WSW	2.029E-08	1.009E-08	6.390E-09	3.550E-09	2.355E-09	1.717E-09	1.327E-09	1.069E-09	8.867E-10	7.522E-10	6.496E-10
W	1.991E-08	9.838E-09	6.197E-09	3.416E-09	2.252E-09	1.633E-09	1.257E-09	1.008E-09	8.335E-10	7.050E-10	6.071E-10
WNW	4.539E-08	2.267E-08	1.440E-08	8.032E-09	5.340E-09	3.899E-09	3.019E-09	2.435E-09	2.022E-09	1.717E-09	1.484E-09
NW	1.567E-07	8.363E-08	5.568E-08	3.318E-08	2.309E-08	1.746E-08	1.391E-08	1.149E-08	9.746E-09	8.430E-09	7.407E-09
NNW	1.889E-07	9.993E-08	6.611E-08	3.902E-08	2.696E-08	2.027E-08	1.608E-08	1.323E-08	1.118E-08	9.643E-09	8.450E-09
N	1.962E-07	1.038E-07	6.861E-08	4.045E-08	2.791E-08	2.096E-08	1.661E-08	1.366E-08	1.153E-08	9.937E-09	8.702E-09
NNE	1.442E-07	7.664E-08	5.087E-08	3.018E-08	2.092E-08	1.578E-08	1.255E-08	1.035E-08	8.761E-09	7.568E-09	6.641E-09
NE	5.037E-08	2.660E-08	1.757E-08	1.036E-08	7.153E-09	5.377E-09	4.264E-09	3.508E-09	2.964E-09	2.556E-09	2.239E-09
ENE	8.362E-08	4.402E-08	2.901E-08	1.702E-08	1.170E-08	8.770E-09	6.936E-09	5.692E-09	4.799E-09	4.135E-09	3.613E-09
E	5.596E-08	2.916E-08	1.908E-08	1.109E-08	7.583E-09	5.657E-09	4.458E-09	3.647E-09	3.067E-09	2.634E-09	2.299E-09
ESE	9.440E-08	4.815E-08	3.105E-08	1.770E-08	1.195E-08	8.825E-09	6.900E-09	5.609E-09	4.691E-09	4.009E-09	3.485E-09
SE	1.224E-07	6.168E-08	3.942E-08	2.218E-08	1.482E-08	1.086E-08	8.434E-09	6.818E-09	5.675E-09	4.829E-09	4.181E-09
SSE	1.176E-07	6.047E-08	3.922E-08	2.252E-08	1.527E-08	1.132E-08	8.879E-09	7.236E-09	6.064E-09	5.192E-09	4.521E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.832E-06	1.127E-06	3.483E-07	1.760E-07	1.094E-07	4.860E-08	1.752E-08	8.677E-09	5.526E-09	3.960E-09
SSW	3.448E-06	7.944E-07	2.575E-07	1.338E-07	8.481E-08	3.892E-08	1.476E-08	7.596E-09	4.953E-09	3.612E-09
SW	1.983E-06	4.658E-07	1.503E-07	7.780E-08	4.918E-08	2.245E-08	8.439E-09	4.309E-09	2.796E-09	2.031E-09
WSW	1.232E-06	2.801E-07	8.306E-08	4.090E-08	2.494E-08	1.071E-08	3.650E-09	1.731E-09	1.073E-09	7.540E-10
W	1.234E-06	2.789E-07	8.220E-08	4.032E-08	2.450E-08	1.046E-08	3.517E-09	1.648E-09	1.013E-09	7.068E-10
WNW	2.736E-06	6.207E-07	1.848E-07	9.121E-08	5.572E-08	2.404E-08	8.250E-09	3.931E-09	2.444E-09	1.721E-09
NW	7.378E-06	1.713E-06	5.643E-07	2.958E-07	1.887E-07	8.744E-08	3.369E-08	1.754E-08	1.152E-08	8.441E-09
NNW	8.931E-06	2.121E-06	6.905E-07	3.593E-07	2.280E-07	1.047E-07	3.968E-08	2.038E-08	1.327E-08	9.657E-09
N	9.160E-06	2.203E-06	7.176E-07	3.733E-07	2.368E-07	1.087E-07	4.113E-08	2.107E-08	1.369E-08	9.952E-09
NNE	6.785E-06	1.596E-06	5.231E-07	2.732E-07	1.738E-07	8.019E-08	3.066E-08	1.586E-08	1.037E-08	7.578E-09
NE	2.413E-06	5.715E-07	1.851E-07	9.608E-08	6.085E-08	2.787E-08	1.054E-08	5.405E-09	3.517E-09	2.559E-09
ENE	3.954E-06	9.518E-07	3.083E-07	1.598E-07	1.011E-07	4.615E-08	1.732E-08	8.819E-09	5.707E-09	4.137E-09
E	2.760E-06	6.608E-07	2.103E-07	1.080E-07	6.785E-08	3.063E-08	1.131E-08	5.691E-09	3.658E-09	2.638E-09
ESE	5.235E-06	1.207E-06	3.699E-07	1.860E-07	1.152E-07	5.083E-08	1.811E-08	8.887E-09	5.628E-09	4.017E-09
SE	7.056E-06	1.621E-06	4.896E-07	2.438E-07	1.499E-07	6.528E-08	2.274E-08	1.094E-08	6.844E-09	4.839E-09
SSE	6.219E-06	1.457E-06	4.535E-07	2.299E-07	1.431E-07	6.372E-08	2.301E-08	1.140E-08	7.259E-09	5.202E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	DISTANCE IN MILES 0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.760E-05	9.213E-06	4.974E-06	2.498E-06	9.882E-07	5.291E-07	3.323E-07	2.301E-07	1.702E-07	1.319E-07	1.059E-07
SSW	2.098E-05	6.775E-06	3.480E-06	1.718E-06	7.009E-07	3.833E-07	2.445E-07	1.715E-07	1.281E-07	1.001E-07	8.095E-08
SW	1.199E-05	3.834E-06	2.017E-06	1.009E-06	4.109E-07	2.242E-07	1.428E-07	9.997E-08	7.458E-08	5.823E-08	4.703E-08
WSW	6.706E-06	2.360E-06	1.271E-06	6.317E-07	2.436E-07	1.280E-07	7.917E-08	5.415E-08	3.963E-08	3.043E-08	2.422E-08
W	6.509E-06	2.367E-06	1.276E-06	6.322E-07	2.430E-07	1.274E-07	7.875E-08	5.383E-08	3.937E-08	3.022E-08	2.405E-08
WNW	1.492E-05	5.257E-06	2.820E-06	1.400E-06	5.414E-07	2.852E-07	1.768E-07	1.212E-07	8.887E-08	6.837E-08	5.452E-08
NW	4.640E-05	1.452E-05	7.428E-06	3.675E-06	1.517E-06	8.357E-07	5.363E-07	3.778E-07	2.833E-07	2.222E-07	1.801E-07
NNW	5.398E-05	1.717E-05	9.104E-06	4.577E-06	1.875E-06	1.028E-06	6.568E-07	4.612E-07	3.449E-07	2.699E-07	2.184E-07
N	5.533E-05	1.745E-05	9.375E-06	4.753E-06	1.949E-06	1.069E-06	6.835E-07	4.800E-07	3.591E-07	2.810E-07	2.274E-07
NNE	4.231E-05	1.320E-05	6.872E-06	3.434E-06	1.413E-06	7.770E-07	4.978E-07	3.502E-07	2.623E-07	2.055E-07	1.665E-07
NE	1.464E-05	4.643E-06	2.462E-06	1.238E-06	5.055E-07	2.766E-07	1.766E-07	1.239E-07	9.261E-08	7.244E-08	5.861E-08
ENE	2.367E-05	7.507E-06	4.056E-06	2.061E-06	8.423E-07	4.608E-07	2.941E-07	2.062E-07	1.541E-07	1.205E-07	9.741E-08
E	1.607E-05	5.223E-06	2.845E-06	1.444E-06	5.837E-07	3.170E-07	2.012E-07	1.405E-07	1.046E-07	8.157E-08	6.582E-08
ESE	2.885E-05	1.003E-05	5.388E-06	2.684E-06	1.057E-06	5.638E-07	3.531E-07	2.440E-07	1.802E-07	1.394E-07	1.117E-07
SE	3.841E-05	1.349E-05	7.280E-06	3.632E-06	1.417E-06	7.514E-07	4.683E-07	3.222E-07	2.370E-07	1.828E-07	1.461E-07
SSE	3.570E-05	1.186E-05	6.393E-06	3.215E-06	1.279E-06	6.866E-07	4.320E-07	2.996E-07	2.218E-07	1.720E-07	1.381E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	DISTANCE IN MILES 5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.733E-08	4.421E-08	2.823E-08	1.574E-08	1.038E-08	7.484E-09	5.713E-09	4.535E-09	3.704E-09	3.093E-09	2.628E-09
SSW	6.719E-08	3.472E-08	2.244E-08	1.265E-08	8.362E-09	6.022E-09	4.580E-09	3.618E-09	2.939E-09	2.439E-09	2.059E-09
SW	3.900E-08	2.008E-08	1.295E-08	7.286E-09	4.811E-09	3.465E-09	2.636E-09	2.084E-09	1.694E-09	1.407E-09	1.189E-09
WSW	1.984E-08	9.751E-09	6.100E-09	3.310E-09	2.146E-09	1.529E-09	1.156E-09	9.100E-10	7.384E-10	6.130E-10	5.181E-10
W	1.969E-08	9.677E-09	6.062E-09	3.305E-09	2.155E-09	1.545E-09	1.176E-09	9.334E-10	7.631E-10	6.383E-10	5.437E-10
WNW	4.472E-08	2.217E-08	1.397E-08	7.676E-09	5.027E-09	3.616E-09	2.759E-09	2.192E-09	1.794E-09	1.502E-09	1.280E-09
NW	1.499E-07	7.818E-08	5.887E-08	2.897E-08	1.929E-08	1.398E-08	1.069E-08	8.488E-09	6.925E-09	5.772E-09	4.892E-09
NNW	1.814E-07	9.399E-08	6.090E-08	3.451E-08	2.291E-08	1.658E-08	1.267E-08	1.005E-08	8.199E-09	6.834E-09	5.793E-09
N	1.890E-07	9.808E-08	6.365E-08	3.617E-08	2.408E-08	1.747E-08	1.339E-08	1.065E-08	8.715E-09	7.284E-09	6.191E-09
NNE	1.385E-07	7.210E-08	4.688E-08	2.671E-08	1.781E-08	1.293E-08	9.916E-09	7.892E-09	6.457E-09	5.397E-09	4.587E-09
NE	4.868E-08	2.526E-08	1.640E-08	9.338E-09	6.237E-09	4.540E-09	3.490E-09	2.785E-09	2.286E-09	1.916E-09	1.633E-09
ENE	8.086E-08	4.185E-08	2.712E-08	1.539E-08	1.025E-08	7.446E-09	5.714E-09	4.554E-09	3.733E-09	3.126E-09	2.662E-09
E	5.453E-08	2.803E-08	1.810E-08	1.025E-08	6.828E-09	4.967E-09	3.820E-09	3.052E-09	2.508E-09	2.106E-09	1.798E-09
ESE	9.206E-08	4.632E-08	2.946E-08	1.634E-08	1.074E-08	7.725E-09	5.885E-09	4.664E-09	3.805E-09	3.174E-09	2.694E-09
SE	1.201E-07	5.992E-08	3.790E-08	2.089E-08	1.367E-08	9.823E-09	7.481E-09	5.931E-09	4.843E-09	4.045E-09	3.439E-09
SSE	1.140E-07	5.765E-08	3.677E-08	2.043E-08	1.341E-08	9.633E-09	7.324E-09	5.791E-09	4.713E-09	3.921E-09	3.319E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.815E-06	1.120E-06	3.439E-07	1.727E-07	1.067E-07	4.669E-08	1.613E-08	7.547E-09	4.555E-09	3.102E-09
SSW	3.429E-06	7.857E-07	2.523E-07	1.298E-07	8.154E-08	3.648E-08	1.292E-08	6.069E-09	3.634E-09	2.446E-09
SW	1.973E-06	4.609E-07	1.474E-07	7.561E-08	4.737E-08	2.112E-08	7.445E-09	3.492E-09	2.093E-09	1.412E-09
WSW	1.229E-06	2.784E-07	8.217E-08	4.027E-08	2.444E-08	1.037E-08	3.413E-09	1.544E-09	9.148E-10	6.150E-10
W	1.232E-06	2.781E-07	8.176E-08	4.001E-08	2.427E-08	1.030E-08	3.407E-09	1.560E-09	9.380E-10	6.402E-10
WNW	2.730E-06	6.183E-07	1.835E-07	9.030E-08	5.499E-08	2.354E-08	7.898E-09	3.649E-09	2.202E-09	1.506E-09
NW	7.337E-06	1.694E-06	5.527E-07	2.870E-07	1.814E-07	8.198E-08	2.953E-08	1.408E-08	8.522E-09	5.788E-09
NNW	8.884E-06	2.099E-06	6.775E-07	3.495E-07	2.199E-07	9.870E-08	3.522E-08	1.670E-08	1.009E-08	6.853E-09
N	9.114E-06	2.181E-06	7.049E-07	3.639E-07	2.291E-07	1.030E-07	3.690E-08	1.760E-08	1.070E-08	7.303E-09
NNE	6.750E-06	1.580E-06	5.132E-07	2.658E-07	1.677E-07	7.564E-08	2.723E-08	1.303E-08	7.924E-09	5.411E-09
NE	2.403E-06	5.665E-07	1.822E-07	9.386E-08	5.903E-08	2.652E-08	9.529E-09	4.573E-09	2.796E-09	1.921E-09
ENE	3.936E-06	9.435E-07	3.034E-07	1.562E-07	9.811E-08	4.397E-08	1.571E-08	7.501E-09	4.573E-09	3.134E-09
E	2.751E-06	6.564E-07	2.078E-07	1.061E-07	6.631E-08	2.951E-08	1.047E-08	5.005E-09	3.064E-09	2.111E-09
ESE	5.218E-06	1.199E-06	3.657E-07	1.829E-07	1.126E-07	4.899E-08	1.677E-08	7.792E-09	4.686E-09	3.183E-09
SE	7.039E-06	1.614E-06	4.853E-07	2.407E-07	1.474E-07	6.351E-08	2.146E-08	9.913E-09	5.959E-09	4.057E-09
SSE	6.195E-06	1.446E-06	4.469E-07	2.250E-07	1.392E-07	6.088E-08	2.094E-08	9.717E-09	5.818E-09	3.933E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.614E-05	8.428E-06	4.444E-06	2.194E-06	8.439E-07	4.414E-07	2.717E-07	1.849E-07	1.346E-07	1.028E-07	8.146E-08
SSW	1.989E-05	6.205E-06	3.115E-06	1.512E-06	6.004E-07	3.211E-07	2.011E-07	1.387E-07	1.021E-07	7.881E-08	6.296E-08
SW	1.137E-05	3.511E-06	1.805E-06	8.884E-07	3.519E-07	1.878E-07	1.173E-07	8.081E-08	5.941E-08	4.578E-08	3.653E-08
WSW	6.351E-06	2.159E-06	1.135E-06	5.547E-07	2.078E-07	1.066E-07	6.464E-08	4.343E-08	3.127E-08	2.366E-08	1.858E-08
W	6.162E-06	2.163E-06	1.138E-06	5.543E-07	2.069E-07	1.059E-07	6.404E-08	4.296E-08	3.089E-08	2.335E-08	1.832E-08
WNW	1.412E-05	4.806E-06	2.516E-06	1.228E-06	4.612E-07	2.371E-07	1.440E-07	9.688E-08	6.985E-08	5.292E-08	4.162E-08
NW	4.398E-05	1.330E-05	6.647E-06	3.235E-06	1.299E-06	7.003E-07	4.411E-07	3.057E-07	2.259E-07	1.749E-07	1.401E-07
NNW	5.116E-05	1.572E-05	8.145E-06	4.028E-06	1.605E-06	8.605E-07	5.396E-07	3.726E-07	2.746E-07	2.120E-07	1.694E-07
N	5.243E-05	1.597E-05	8.386E-06	4.182E-06	1.668E-06	8.944E-07	5.609E-07	3.874E-07	2.854E-07	2.204E-07	1.761E-07
NNE	4.010E-05	1.209E-05	6.148E-06	3.022E-06	1.210E-06	6.506E-07	4.089E-07	2.829E-07	2.088E-07	1.614E-07	1.292E-07
NE	1.387E-05	4.250E-06	2.201E-06	1.088E-06	4.323E-07	2.312E-07	1.447E-07	9.983E-08	7.349E-08	5.669E-08	4.529E-08
ENE	2.243E-05	6.871E-06	3.627E-06	1.812E-06	7.203E-07	3.852E-07	2.410E-07	1.661E-07	1.222E-07	9.425E-08	7.525E-08
E	1.522E-05	4.778E-06	2.542E-06	1.269E-06	4.983E-07	2.643E-07	1.644E-07	1.128E-07	8.269E-08	6.354E-08	5.059E-08
ESE	2.733E-05	9.177E-06	4.812E-06	2.357E-06	9.018E-07	4.700E-07	2.885E-07	1.959E-07	1.423E-07	1.085E-07	8.586E-08
SE	3.638E-05	1.234E-05	6.499E-06	3.187E-06	1.208E-06	6.253E-07	3.817E-07	2.579E-07	1.866E-07	1.418E-07	1.118E-07
SSE	3.382E-05	1.085E-05	5.714E-06	2.825E-06	1.093E-06	5.733E-07	3.537E-07	2.411E-07	1.757E-07	1.344E-07	1.065E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.639E-08	3.211E-08	1.974E-08	1.040E-08	6.564E-09	4.570E-09	3.386E-09	2.619E-09	2.090E-09	1.708E-09	1.423E-09
SSW	5.169E-08	2.568E-08	1.608E-08	8.670E-09	5.550E-09	3.903E-09	2.912E-09	2.264E-09	1.813E-09	1.486E-09	1.240E-09
SW	2.996E-08	1.482E-08	9.247E-09	4.963E-09	3.168E-09	2.223E-09	1.656E-09	1.286E-09	1.029E-09	8.426E-10	7.028E-10
WSW	1.503E-08	7.046E-09	4.236E-09	2.163E-09	1.339E-09	9.181E-10	6.719E-10	5.144E-10	4.069E-10	3.302E-10	2.732E-10
W	1.479E-08	6.904E-09	4.138E-09	2.105E-09	1.299E-09	8.896E-10	6.507E-10	4.981E-10	3.943E-10	3.201E-10	2.652E-10
WNW	3.369E-08	1.588E-08	9.590E-09	4.930E-09	3.065E-09	2.111E-09	1.551E-09	1.192E-09	9.463E-10	7.704E-10	6.398E-10
NW	1.153E-07	5.782E-08	3.643E-08	1.982E-08	1.277E-08	9.027E-09	6.763E-09	5.275E-09	4.238E-09	3.483E-09	2.914E-09
NNW	1.391E-07	6.921E-08	4.336E-08	2.340E-08	1.499E-08	1.055E-08	7.879E-09	6.130E-09	4.915E-09	4.032E-09	3.369E-09
N	1.447E-07	7.197E-08	4.510E-08	2.434E-08	1.559E-08	1.098E-08	8.199E-09	6.382E-09	5.120E-09	4.203E-09	3.514E-09
NNE	1.062E-07	5.308E-08	3.337E-08	1.810E-08	1.164E-08	8.218E-09	6.153E-09	4.798E-09	3.855E-09	3.169E-09	2.652E-09
NE	3.718E-08	1.847E-08	1.157E-08	6.246E-09	4.039E-09	2.826E-09	2.114E-09	1.648E-09	1.323E-09	1.088E-09	9.103E-10
ENE	6.174E-08	3.058E-08	1.911E-08	1.027E-08	6.569E-09	4.617E-09	3.446E-09	2.681E-09	2.150E-09	1.764E-09	1.475E-09
E	4.141E-08	2.032E-08	1.262E-08	6.738E-09	4.292E-09	3.009E-09	2.242E-09	1.742E-09	1.396E-09	1.145E-09	9.571E-10
ESE	6.986E-08	3.357E-08	2.054E-08	1.075E-08	6.758E-09	4.691E-09	3.466E-09	2.675E-09	2.131E-09	1.739E-09	1.446E-09
SE	9.075E-08	4.312E-08	2.618E-08	1.355E-08	8.449E-09	5.830E-09	4.289E-09	3.298E-09	2.619E-09	2.133E-09	1.771E-09
SSE	8.687E-08	4.205E-08	2.586E-08	1.361E-08	8.579E-09	5.966E-09	4.414E-09	3.409E-09	2.717E-09	2.218E-09	1.845E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.329E-06	9.650E-07	2.822E-07	1.369E-07	8.221E-08	3.423E-08	1.077E-08	4.628E-09	2.636E-09	1.715E-09
SSW	3.089E-06	6.789E-07	2.082E-07	1.037E-07	6.348E-08	2.720E-08	8.930E-09	3.946E-09	2.277E-09	1.492E-09
SW	1.777E-06	3.982E-07	1.215E-07	6.033E-08	3.683E-08	1.571E-08	5.117E-09	2.248E-09	1.294E-09	8.460E-10
WSW	1.104E-06	2.399E-07	6.735E-08	3.184E-08	1.877E-08	7.571E-09	2.257E-09	9.318E-10	5.185E-10	3.318E-10
W	1.106E-06	2.392E-07	6.676E-08	3.146E-08	1.850E-08	7.428E-09	2.198E-09	9.032E-10	5.022E-10	3.217E-10
WNW	2.452E-06	5.320E-07	1.500E-07	7.113E-08	4.203E-08	1.704E-08	5.136E-09	2.141E-09	1.201E-09	7.741E-10
NW	6.610E-06	1.463E-06	4.560E-07	2.293E-07	1.412E-07	6.109E-08	2.038E-08	9.120E-09	5.305E-09	3.496E-09
NNW	7.999E-06	1.813E-06	5.583E-07	2.787E-07	1.708E-07	7.326E-08	2.410E-08	1.067E-08	6.167E-09	4.048E-09
N	8.203E-06	1.883E-06	5.804E-07	2.898E-07	1.776E-07	7.618E-08	2.506E-08	1.110E-08	6.420E-09	4.219E-09
NNE	6.078E-06	1.364E-06	4.230E-07	2.119E-07	1.302E-07	5.613E-08	1.862E-08	8.305E-09	4.826E-09	3.181E-09
NE	2.162E-06	4.887E-07	1.498E-07	7.462E-08	4.567E-08	1.956E-08	6.435E-09	2.856E-09	1.657E-09	1.092E-09
ENE	3.541E-06	8.140E-07	2.495E-07	1.241E-07	7.587E-08	3.240E-08	1.059E-08	4.669E-09	2.697E-09	1.771E-09
E	2.473E-06	5.655E-07	1.704E-07	8.400E-08	5.103E-08	2.158E-08	6.958E-09	3.044E-09	1.753E-09	1.150E-09
ESE	4.691E-06	1.033E-06	2.998E-07	1.448E-07	8.666E-08	3.584E-08	1.115E-08	4.752E-09	2.694E-09	1.747E-09
SE	6.324E-06	1.389E-06	3.972E-07	1.900E-07	1.129E-07	4.618E-08	1.409E-08	5.912E-09	3.323E-09	2.143E-09
SSE	5.572E-06	1.247E-06	3.672E-07	1.786E-07	1.075E-07	4.481E-08	1.410E-08	6.042E-09	3.433E-09	2.227E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

************************ RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS ************************

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.989E-07	6.454E-08	3.314E-08	1.575E-08	5.659E-09	2.806E-09	1.652E-09	1.082E-09	7.614E-10	5.642E-10	4.348E-10
SSW	7.762E-08	2.625E-08	1.348E-08	6.407E-09	2.301E-09	1.141E-09	6.720E-10	4.400E-10	3.096E-10	2.295E-10	1.768E-10
SW	3.728E-08	1.261E-08	6.473E-09	3.077E-09	1.105E-09	5.482E-10	3.228E-10	2.113E-10	1.487E-10	1.102E-10	8.493E-11
WSW	3.465E-08	1.172E-08	6.017E-09	2.860E-09	1.027E-09	5.095E-10	3.000E-10	1.965E-10	1.382E-10	1.024E-10	7.895E-11
W	4.971E-08	1.681E-08	8.632E-09	4.104E-09	1.474E-09	7.310E-10	4.304E-10	2.818E-10	1.983E-10	1.470E-10	1.133E-10
WNW	1.092E-07	3.694E-08	1.896E-08	9.016E-09	3.239E-09	1.606E-09	9.457E-10	6.192E-10	4.357E-10	3.229E-10	2.488E-10
NW	1.610E-07	5.443E-08	2.795E-08	1.329E-08	4.773E-09	2.367E-09	1.394E-09	9.125E-10	6.421E-10	4.759E-10	3.667E-10
NNW	1.893E-07	6.400E-08	3.286E-08	1.562E-08	5.612E-09	2.783E-09	1.639E-09	1.073E-09	7.550E-10	5.595E-10	4.312E-10
N	1.999E-07	6.761E-08	3.471E-08	1.650E-08	5.928E-09	2.940E-09	1.731E-09	1.133E-09	7.976E-10	5.911E-10	4.555E-10
NNE	1.444E-07	4.882E-08	2.507E-08	1.192E-08	4.281E-09	2.123E-09	1.250E-09	8.185E-10	5.759E-10	4.268E-10	3.289E-10
NE	5.126E-08	1.733E-08	8.900E-09	4.231E-09	1.520E-09	7.537E-10	4.438E-10	2.906E-10	2.045E-10	1.515E-10	1.168E-10
ENE	8.187E-08	2.768E-08	1.421E-08	6.758E-09	2.427E-09	1.204E-09	7.088E-10	4.641E-10	3.266E-10	2.420E-10	1.865E-10
E	7.710E-08	2.607E-08	1.339E-08	6.365E-09	2.286E-09	1.134E-09	6.676E-10	4.371E-10	3.076E-10	2.279E-10	1.757E-10
ESE	1.896E-07	6.411E-08	3.292E-08	1.565E-08	5.621E-09	2.788E-09	1.642E-09	1.075E-09	7.563E-10	5.605E-10	4.319E-10
SE	3.765E-07	1.273E-07	6.538E-08	3.108E-08	1.116E-08	5.537E-09	3.260E-09	2.135E-09	1.502E-09	1.113E-09	8.578E-10
SSE	2.572E-07	8.696E-08	4.465E-08	2.123E-08	7.625E-09	3.781E-09	2.226E-09	1.458E-09	1.026E-09	7.602E-10	5.859E-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	3.454E-10	1.535E-10	9.296E-11	4.698E-11	2.844E-11	1.907E-11	1.366E-11	1.026E-11	7.972E-12	6.372E-12	5.201E-12
SSW	1.405E-10	6.241E-11	3.780E-11	1.911E-11	1.156E-11	7.754E-12	5.556E-12	4.172E-12	3.244E-12	2.591E-12	2.115E-12
SW	6.747E-11	2.997E-11	1.816E-11	9.177E-12	5.554E-12	3.724E-12	2.669E-12	2.004E-12	1.558E-12	1.245E-12	1.016E-12
WSW	6.272E-11	2.786E-11	1.688E-11	8.531E-12	5.163E-12	3.462E-12	2.481E-12	1.863E-12	1.448E-12	1.157E-12	9.443E-13
W	8.998E-11	3.997E-11	2.421E-11	1.224E-11	7.407E-12	4.966E-12	3.559E-12	2.672E-12	2.078E-12	1.660E-12	1.355E-12
WNW	1.977E-10	8.782E-11	5.320E-11	2.689E-11	1.627E-11	1.091E-11	7.819E-12	5.871E-12	4.565E-12	3.646E-12	2.976E-12
NW	2.913E-10	1.294E-10	7.840E-11	3.963E-11	2.398E-11	1.608E-11	1.152E-11	8.652E-12	6.727E-12	5.374E-12	4.386E-12
NNW	3.426E-10	1.522E-10	9.218E-11	4.659E-11	2.820E-11	1.891E-11	1.355E-11	1.017E-11	7.910E-12	6.319E-12	5.157E-12
N	3.619E-10	1.607E-10	9.737E-11	4.922E-11	2.979E-11	1.997E-11	1.431E-11	1.075E-11	8.356E-12	6.675E-12	5.448E-12
NNE	2.613E-10	1.161E-10	7.032E-11	3.554E-11	2.151E-11	1.442E-11	1.033E-11	7.760E-12	6.034E-12	4.820E-12	3.934E-12
NE	9.277E-11	4.121E-11	2.497E-11	1.262E-11	7.638E-12	5.121E-12	3.669E-12	2.755E-12	2.142E-12	1.711E-12	1.397E-12
ENE	1.482E-10	6.582E-11	3.987E-11	2.015E-11	1.220E-11	8.178E-12	5.860E-12	4.400E-12	3.421E-12	2.733E-12	2.231E-12
E	1.395E-10	6.199E-11	3.755E-11	1.898E-11	1.149E-11	7.703E-12	5.519E-12	4.144E-12	3.222E-12	2.574E-12	2.101E-12
ESE	3.431E-10	1.524E-10	9.234E-11	4.667E-11	2.825E-11	1.894E-11	1.357E-11	1.019E-11	7.924E-12	6.329E-12	5.166E-12
SE	6.815E-10	3.027E-10	1.834E-10	9.269E-11	5.610E-11	3.762E-11	2.695E-11	2.024E-11	1.574E-11	1.257E-11	1.026E-11
SSE	4.654E-10	2.068E-10	1.252E-10	6.330E-11	3.832E-11	2.569E-11	1.841E-11	1.382E-11	1.075E-11	8.585E-12	7.007E-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	3.239E-08	6.635E-09	1.732E-09	7.779E-10	4.401E-10	1.692E-10	4.896E-11	1.940E-11	1.036E-11	6.413E-12
SSW	1.317E-08	2.698E-09	7.044E-10	3.163E-10	1.790E-10	6.882E-11	1.991E-11	7.891E-12	4.214E-12	2.608E-12
SW	6.327E-09	1.296E-09	3.383E-10	1.519E-10	8.595E-11	3.305E-11	9.562E-12	3.790E-12	2.024E-12	1.253E-12
WSW	5.881E-09	1.205E-09	3.145E-10	1.412E-10	7.990E-11	3.073E-11	8.889E-12	3.523E-12	1.881E-12	1.164E-12
W	8.437E-09	1.728E-09	4.511E-10	2.026E-10	1.146E-10	4.408E-11	1.275E-11	5.054E-12	2.699E-12	1.671E-12
WNW	1.854E-08	3.797E-09	9.912E-10	4.452E-10	2.518E-10	9.685E-11	2.802E-11	1.110E-11	5.930E-12	3.670E-12
NW	2.732E-08	5.595E-09	1.461E-09	6.560E-10	3.711E-10	1.427E-10	4.129E-11	1.636E-11	8.739E-12	5.409E-12
NNW	3.212E-08	6.579E-09	1.718E-09	7.714E-10	4.364E-10	1.678E-10	4.855E-11	1.924E-11	1.028E-11	6.360E-12
N	3.393E-08	6.950E-09	1.814E-09	8.149E-10	4.610E-10	1.773E-10	5.128E-11	2.033E-11	1.085E-11	6.718E-12
NNE	2.450E-08	5.019E-09	1.310E-09	5.884E-10	3.329E-10	1.280E-10	3.703E-11	1.468E-11	7.838E-12	4.852E-12
NE	8.699E-09	1.782E-09	4.652E-10	2.089E-10	1.182E-10	4.545E-11	1.315E-11	5.211E-12	2.783E-12	1.722E-12
ENE	1.389E-08	2.846E-09	7.429E-10	3.337E-10	1.888E-10	7.259E-11	2.100E-11	8.323E-12	4.445E-12	2.751E-12
E	1.309E-08	2.680E-09	6.997E-10	3.143E-10	1.778E-10	6.837E-11	1.978E-11	7.839E-12	4.186E-12	2.591E-12
ESE	3.218E-08	6.591E-09	1.721E-09	7.727E-10	4.371E-10	1.681E-10	4.863E-11	1.928E-11	1.029E-11	6.371E-12
SE	6.390E-08	1.309E-08	3.417E-09	1.535E-09	8.682E-10	3.339E-10	9.659E-11	3.828E-11	2.044E-11	1.265E-11
SSE	4.364E-08	8.939E-09	2.334E-09	1.048E-09	5.929E-10	2.280E-10	6.596E-11	2.614E-11	1.396E-11	8.641E-12

VENTS GROUND LEVEL RELEASES - JAN-MAR 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	4.295E-06	4.278E-06	3.809E-06	2.818E-08
A	SITE BOUNDARY	SSW	0.82	1327.	2.773E-06	2.755E-06	2.453E-06	1.057E-08
A	SITE BOUNDARY	SW	0.98	1569.	1.077E-06	1.069E-06	9.424E-07	3.284E-09
A	SITE BOUNDARY	WSW	0.93	1489.	7.654E-07	7.624E-07	6.727E-07	3.495E-09
A	SITE BOUNDARY	W	0.91	1468.	7.921E-07	7.905E-07	6.971E-07	5.203E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.640E-06	1.635E-06	1.440E-06	1.064E-08
A	SITE BOUNDARY	NW	0.81	1307.	6.151E-06	6.112E-06	5.446E-06	2.282E-08
A	SITE BOUNDARY	NNW	0.69	1106.	1.046E-05	1.041E-05	9.352E-06	3.806E-08
A	SITE BOUNDARY	N	0.67	1086.	1.103E-05	1.098E-05	9.873E-06	4.145E-08
A	SITE BOUNDARY	NNE	0.60	965.	9.874E-06	9.829E-06	8.901E-06	3.627E-08
A	SITE BOUNDARY	NE	0.62	1005.	3.274E-06	3.261E-06	2.943E-06	1.210E-08
A	SITE BOUNDARY	ENE	0.59	945.	5.865E-06	5.843E-06	5.296E-06	2.129E-08
A	SITE BOUNDARY	E	0.53	845.	4.836E-06	4.824E-06	4.400E-06	2.408E-08
A	SITE BOUNDARY	ESE	0.54	865.	8.996E-06	8.974E-06	8.173E-06	5.699E-08
A	SITE BOUNDARY	SE	0.65	1046.	9.077E-06	9.057E-06	8.147E-06	8.315E-08
A	SITE BOUNDARY	SSE	0.81	1307.	5.321E-06	5.297E-06	4.713E-06	3.646E-08
A	NEAR. RESIDENCE	SSW	1.80	2897.	4.837E-07	4.766E-07	4.028E-07	1.472E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	5.664E-07	5.608E-07	4.851E-07	1.578E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.407E-07	3.388E-07	2.922E-07	1.467E-09
A	NEAR. RESIDENCE	W	1.00	1609.	6.336E-07	6.322E-07	5.543E-07	4.104E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	4.700E-07	4.679E-07	3.965E-07	2.763E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	4.765E-06	4.731E-06	4.191E-06	1.746E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.159E-06	1.142E-06	9.600E-07	3.149E-09
A	NEAR. RESIDENCE	N	3.00	4828.	4.908E-07	4.800E-07	3.874E-07	1.133E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.378E-07	4.286E-07	3.497E-07	1.045E-09
A	NEAR. RESIDENCE	ENE	1.70	2736.	6.531E-07	6.459E-07	5.471E-07	1.785E-09
A	NEAR. RESIDENCE	E	1.80	2897.	3.987E-07	3.952E-07	3.325E-07	1.462E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	3.885E-07	3.841E-07	3.150E-07	1.806E-09
A	NEAR. RESIDENCE	SE	2.20	3541.	6.174E-07	6.126E-07	5.055E-07	4.408E-09
A	NEAREST COW	NNW	3.50	5633.	3.546E-07	3.449E-07	2.745E-07	7.549E-10
A	NEAREST GARDEN	SSW	1.80	2897.	4.837E-07	4.766E-07	4.028E-07	1.472E-09
A	NEAREST GARDEN	SW	2.20	3541.	1.878E-07	1.845E-07	1.533E-07	4.364E-10
A	NEAREST GARDEN	WSW	1.30	2092.	3.407E-07	3.388E-07	2.922E-07	1.467E-09
A	NEAREST GARDEN	WNW	2.30	3702.	2.124E-07	2.109E-07	1.731E-07	1.151E-09
A	NEAREST GARDEN	NW	0.90	1448.	4.765E-06	4.731E-06	4.191E-06	1.746E-08
A	NEAREST GARDEN	N	3.00	4828.	4.908E-07	4.800E-07	3.874E-07	1.133E-09
A	NEAREST GARDEN	ENE	1.70	2736.	6.531E-07	6.459E-07	5.471E-07	1.785E-09
A	NEAREST GARDEN	E	1.80	2897.	3.987E-07	3.952E-07	3.325E-07	1.462E-09
A	NEAREST GARDEN	ESE	2.60	4184.	3.300E-07	3.259E-07	2.653E-07	1.498E-09

Atmospheric Diffusion Estimates

Ground Level Releases

April-June 1996

VENTS GROUND LEVEL RELEASES - APR-JUN 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.425E-05	7.707E-06	4.236E-06	2.169E-06	8.843E-07	4.837E-07	3.089E-07	2.169E-07	1.624E-07	1.272E-07	1.031E-07
SSW	1.140E-05	3.834E-06	2.078E-06	1.043E-06	4.098E-07	2.187E-07	1.371E-07	9.494E-08	7.023E-08	5.447E-08	4.376E-08
SW	5.690E-06	1.967E-06	1.068E-06	5.350E-07	2.099E-07	1.118E-07	7.002E-08	4.840E-08	3.575E-08	2.769E-08	2.222E-08
WSW	6.140E-06	2.181E-06	1.170E-06	5.803E-07	2.239E-07	1.178E-07	7.387E-08	5.010E-08	3.675E-08	2.829E-08	2.258E-08
W	3.725E-06	1.335E-06	7.072E-07	3.476E-07	1.324E-07	6.907E-08	4.252E-08	2.898E-08	2.115E-08	1.621E-08	1.289E-08
WNW	9.502E-06	3.214E-06	1.681E-06	8.305E-07	3.302E-07	1.777E-07	1.121E-07	7.798E-08	5.792E-08	4.508E-08	3.633E-08
NW	8.339E-06	2.767E-06	1.508E-06	7.613E-07	3.067E-07	1.609E-07	1.011E-07	7.003E-08	5.183E-08	4.022E-08	3.232E-08
NNW	8.952E-06	3.040E-06	1.665E-06	8.403E-07	3.328E-07	1.786E-07	1.124E-07	7.807E-08	5.789E-08	4.500E-08	3.621E-08
N	2.510E-05	7.843E-06	4.237E-06	2.156E-06	8.849E-07	4.861E-07	3.115E-07	2.194E-07	1.646E-07	1.292E-07	1.049E-07
NNE	1.069E-05	3.395E-06	1.815E-06	9.161E-07	3.739E-07	2.047E-07	1.309E-07	9.206E-08	6.898E-08	5.409E-08	4.388E-08
NE	9.050E-06	2.967E-06	1.592E-06	8.031E-07	3.283E-07	1.799E-07	1.151E-07	8.094E-08	6.065E-08	4.756E-08	3.858E-08
ENE	5.113E-06	1.558E-06	8.022E-07	4.014E-07	1.684E-07	9.385E-08	6.079E-08	4.317E-08	3.261E-08	2.575E-08	2.101E-08
E	3.175E-06	1.016E-06	5.568E-07	2.841E-07	1.150E-07	6.255E-08	3.979E-08	2.786E-08	2.080E-08	1.626E-08	1.315E-08
ESE	9.672E-06	2.954E-06	1.482E-06	7.286E-07	3.030E-07	1.681E-07	1.086E-07	7.698E-08	5.808E-08	4.582E-08	3.737E-08
SE	1.361E-05	4.399E-06	2.433E-06	1.244E-06	4.996E-07	2.704E-07	1.713E-07	1.196E-07	8.902E-08	6.942E-08	5.604E-08
SSE	3.548E-05	1.119E-05	5.987E-06	3.029E-06	1.237E-06	6.773E-07	4.330E-07	3.043E-07	2.279E-07	1.787E-07	1.449E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.580E-08	4.504E-08	2.962E-08	1.734E-08	1.190E-08	8.906E-09	7.035E-09	5.767E-09	4.858E-09	4.178E-09	3.651E-09
SSW	3.616E-08	1.852E-08	1.198E-08	6.861E-09	4.648E-09	3.444E-09	2.699E-09	2.198E-09	1.841E-09	1.576E-09	1.371E-09
SW	1.833E-08	9.316E-09	5.990E-09	3.400E-09	2.287E-09	1.684E-09	1.314E-09	1.066E-09	8.900E-10	7.594E-10	6.592E-10
WSW	1.853E-08	9.238E-09	5.857E-09	3.260E-09	2.164E-09	1.578E-09	1.221E-09	9.837E-10	8.163E-10	6.929E-10	5.986E-10
W	1.056E-08	5.224E-09	3.295E-09	1.819E-09	1.199E-09	8.691E-10	6.693E-10	5.371E-10	4.442E-10	3.759E-10	3.239E-10
WNW	3.009E-08	1.554E-08	1.011E-08	5.639E-09	3.975E-09	2.957E-09	2.326E-09	1.901E-09	1.597E-09	1.370E-09	1.196E-09
NW	2.670E-08	1.363E-08	8.796E-09	5.021E-09	3.395E-09	2.511E-09	1.965E-09	1.599E-09	1.344E-09	1.154E-09	1.006E-09
NNW	2.997E-08	1.541E-08	9.988E-09	5.733E-09	3.883E-09	2.876E-09	2.253E-09	1.835E-09	1.537E-09	1.315E-09	1.144E-09
N	8.741E-08	4.611E-08	3.043E-08	1.792E-08	1.236E-08	9.284E-09	7.357E-09	6.048E-09	5.107E-09	4.401E-09	3.853E-09
NNE	3.656E-08	1.928E-08	1.272E-08	7.486E-09	5.163E-09	3.878E-09	3.073E-09	2.526E-09	2.133E-09	1.838E-09	1.610E-09
NE	3.212E-08	1.689E-08	1.112E-08	6.519E-09	4.479E-09	3.355E-09	2.652E-09	2.176E-09	1.834E-09	1.578E-09	1.380E-09
ENE	1.759E-08	9.441E-09	6.305E-09	3.770E-09	2.626E-09	1.988E-09	1.585E-09	1.310E-09	1.111E-09	9.610E-10	8.453E-10
E	1.093E-08	5.703E-09	3.736E-09	2.176E-09	1.490E-09	1.112E-09	8.772E-10	7.182E-10	6.043E-10	5.191E-10	4.533E-10
ESE	3.127E-08	1.676E-08	1.119E-08	6.705E-09	4.689E-09	3.560E-09	2.846E-09	2.357E-09	2.004E-09	1.737E-09	1.529E-09
SE	4.648E-08	2.409E-08	1.570E-08	9.083E-09	6.189E-09	4.605E-09	3.621E-09	2.957E-09	2.482E-09	2.128E-09	1.855E-09
SSE	1.206E-07	6.344E-08	4.179E-08	2.453E-08	1.690E-08	1.268E-08	1.003E-08	8.243E-09	6.956E-09	5.992E-09	5.245E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.089E-06	9.917E-07	3.187E-07	1.646E-07	1.038E-07	4.725E-08	1.765E-08	8.957E-09	5.783E-09	4.184E-09
SSW	2.008E-06	4.655E-07	1.420E-07	7.128E-08	4.412E-08	1.954E-08	7.015E-09	3.467E-09	2.205E-09	1.579E-09
SW	1.031E-06	2.386E-07	7.252E-08	3.630E-08	2.240E-08	9.842E-09	3.481E-09	1.697E-09	1.070E-09	7.610E-10
WSW	1.133E-06	2.560E-07	7.582E-08	3.734E-08	2.277E-08	9.801E-09	3.350E-09	1.592E-09	9.878E-10	6.945E-10
W	6.869E-07	1.521E-07	4.418E-08	2.151E-08	1.301E-08	5.552E-09	1.871E-09	8.771E-10	5.395E-10	3.769E-10
WNW	1.644E-06	3.736E-07	1.159E-07	5.876E-08	3.661E-08	1.636E-08	5.960E-09	2.976E-09	1.907E-09	1.373E-09
NW	1.456E-06	3.409E-07	1.046E-07	5.261E-08	3.258E-08	1.439E-08	5.137E-09	2.529E-09	1.604E-09	1.146E-09
NNW	1.604E-06	3.770E-07	1.163E-07	5.874E-08	3.650E-08	1.623E-08	5.856E-09	2.896E-09	1.841E-09	1.317E-09
N	4.113E-06	9.902E-07	3.212E-07	1.667E-07	1.056E-07	4.832E-08	1.823E-08	9.333E-09	6.063E-09	4.407E-09
NNE	1.767E-06	4.192E-07	1.351E-07	6.990E-08	4.420E-08	2.020E-08	7.616E-09	3.899E-09	2.533E-09	1.841E-09
NE	1.547E-06	3.679E-07	1.187E-07	6.146E-08	3.885E-08	1.771E-08	6.635E-09	3.373E-09	2.182E-09	1.581E-09
ENE	7.921E-07	1.870E-07	6.255E-08	3.301E-08	2.115E-08	9.859E-09	3.825E-09	1.997E-09	1.313E-09	9.630E-10
E	5.377E-07	1.292E-07	4.109E-08	2.109E-08	1.325E-08	5.990E-09	2.217E-09	1.119E-09	7.202E-10	5.200E-10
ESE	1.474E-06	3.376E-07	1.118E-07	5.881E-08	3.761E-08	1.751E-08	6.806E-09	3.575E-09	2.362E-09	1.739E-09
SE	2.341E-06	5.631E-07	1.770E-07	9.028E-08	5.646E-08	2.534E-08	9.268E-09	4.634E-09	2.966E-09	2.132E-09
SSE	5.828E-06	1.387E-06	4.467E-07	2.310E-07	1.459E-07	6.653E-08	2.497E-08	1.274E-08	8.265E-09	6.001E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	DISTANCE IN MILES 0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.420E-05	7.671E-06	4.207E-06	2.149E-06	8.719E-07	4.746E-07	3.016E-07	2.108E-07	1.570E-07	1.224E-07	9.872E-08
SSW	1.138E-05	3.820E-06	2.067E-06	1.035E-06	4.052E-07	2.154E-07	1.346E-07	9.281E-08	6.839E-08	5.283E-08	4.228E-08
SW	5.683E-06	1.961E-06	1.064E-06	5.322E-07	2.082E-07	1.106E-07	6.910E-08	4.764E-08	3.510E-08	2.712E-08	2.170E-08
WSW	6.135E-06	2.178E-06	1.168E-06	5.784E-07	2.228E-07	1.171E-07	7.246E-08	4.959E-08	3.632E-08	2.791E-08	2.224E-08
W	3.722E-06	1.333E-06	7.054E-07	3.465E-07	1.317E-07	6.858E-08	4.215E-08	2.867E-08	2.089E-08	1.598E-08	1.268E-08
WNW	9.483E-06	3.201E-06	1.672E-06	8.245E-07	3.265E-07	1.749E-07	1.099E-07	7.612E-08	5.629E-08	4.362E-08	3.500E-08
NW	8.329E-06	2.761E-06	1.502E-06	7.577E-07	2.985E-07	1.593E-07	9.981E-08	6.898E-08	5.093E-08	3.941E-08	3.159E-08
NNW	8.940E-06	3.032E-06	1.658E-06	8.357E-07	3.301E-07	1.766E-07	1.109E-07	7.678E-08	5.678E-08	4.400E-08	3.532E-08
N	2.504E-05	7.807E-06	4.208E-06	2.137E-06	8.726E-07	4.770E-07	3.042E-07	2.132E-07	1.591E-07	1.243E-07	1.004E-07
NNE	1.067E-05	3.381E-06	1.804E-06	9.090E-07	3.694E-07	2.014E-07	1.282E-07	8.978E-08	6.698E-08	5.230E-08	4.224E-08
NE	9.026E-06	2.952E-06	1.580E-06	7.952E-07	3.234E-07	1.763E-07	1.122E-07	7.847E-08	5.8[illegible]E-08	4.561E-08	3.680E-08
ENE	5.098E-06	1.550E-06	7.957E-07	3.972E-07	1.656E-07	9.178E-08	5.910E-08	4.173E-08	3.134E-08	2.460E-08	1.996E-08
E	3.170E-06	1.013E-06	5.544E-07	2.824E-07	1.139E-07	6.180E-08	3.920E-08	2.736E-08	2.036E-08	1.587E-08	1.280E-08
ESE	9.644E-06	2.938E-06	1.469E-06	7.206E-07	2.978E-07	1.643E-07	1.055E-07	7.429E-08	5.571E-08	4.368E-08	3.540E-08
SE	1.359E-05	4.383E-06	2.419E-06	1.235E-06	4.939E-07	2.662E-07	1.680E-07	1.168E-07	8.659E-08	6.725E-08	5.407E-08
SSE	3.539E-05	1.114E-05	5.947E-06	3.002E-06	1.220E-06	6.648E-07	4.229E-07	2.957E-07	2.204E-07	1.719E-07	1.387E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	DISTANCE IN MILES 5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.177E-08	4.191E-08	2.692E-08	1.504E-08	9.867E-09	7.067E-09	5.349E-09	4.208E-09	3.405E-09	2.816E-09	2.369E-09
SSW	3.481E-08	1.749E-08	1.110E-08	6.121E-09	3.998E-09	2.859E-09	2.164E-09	1.704E-09	1.382E-09	1.145E-09	9.657E-10
SW	1.786E-08	8.960E-09	5.689E-09	3.150E-09	2.069E-09	1.489E-09	1.135E-09	9.007E-10	7.356E-10	6.143E-10	5.221E-10
WSW	1.822E-08	9.007E-09	5.663E-09	3.101E-09	2.026E-09	1.454E-09	1.108E-09	8.788E-10	7.183E-10	6.006E-10	5.112E-10
W	1.037E-08	5.085E-09	3.178E-09	1.723E-09	1.116E-09	7.951E-10	6.019E-10	4.751E-10	3.865E-10	3.219E-10	2.730E-10
WNW	2.886E-08	1.458E-08	9.276E-09	5.125E-09	3.342E-09	2.384E-09	1.800E-09	1.414E-09	1.143E-09	9.447E-10	7.949E-10
NW	2.603E-08	1.312E-08	8.355E-09	4.649E-09	3.067E-09	2.215E-09	1.694E-09	1.347E-09	1.103E-09	9.226E-10	7.856E-10
NNW	2.914E-08	1.478E-08	9.448E-09	5.278E-09	3.483E-09	2.516E-09	1.923E-09	1.529E-09	1.251E-09	1.046E-09	8.904E-10
N	8.327E-08	4.286E-08	2.761E-08	1.549E-08	1.021E-08	7.332E-09	5.565E-09	4.387E-09	3.558E-09	2.948E-09	2.486E-09
NNE	3.503E-08	1.807E-08	1.167E-08	6.579E-09	4.354E-09	3.143E-09	2.396E-09	1.898E-09	1.547E-09	1.288E-09	1.091E-09
NE	3.048E-08	1.560E-08	1.001E-08	5.568E-09	3.636E-09	2.591E-09	1.952E-09	1.528E-09	1.231E-09	1.013E-09	8.488E-10
ENE	1.661E-08	8.655E-09	5.615E-09	3.170E-09	2.089E-09	1.499E-09	1.135E-09	8.918E-10	7.208E-10	5.952E-10	5.001E-10
E	1.061E-08	5.454E-09	3.522E-09	1.995E-09	1.330E-09	9.683E-10	7.452E-10	5.959E-10	4.901E-10	4.119E-10	3.522E-10
ESE	2.944E-08	1.530E-08	9.907E-09	5.589E-09	3.688E-09	2.648E-09	2.006E-09	1.578E-09	1.276E-09	1.054E-09	8.856E-10
SE	4.466E-08	2.269E-08	1.450E-08	8.065E-09	5.292E-09	3.796E-09	2.880E-09	2.272E-09	1.845E-09	1.531E-09	1.293E-09
SSE	1.149E-07	5.896E-08	3.789E-08	2.120E-08	1.393E-08	9.984E-09	7.564E-09	5.954E-09	4.821E-09	3.989E-09	3.358E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.062E-06	9.790E-07	3.114E-07	1.592E-07	9.946E-08	4.410E-08	1.538E-08	7.126E-09	4.228E-09	2.825E-09
SSW	1.998E-06	4.608E-07	1.394E-07	6.944E-08	4.264E-08	1.850E-08	6.283E-09	2.885E-09	1.713E-09	1.149E-09
SW	1.027E-06	2.369E-07	7.160E-08	3.564E-08	2.188E-08	9.484E-09	3.234E-09	1.502E-09	9.048E-10	6.161E-10
WSW	1.130E-06	2.548E-07	7.520E-08	3.691E-08	2.243E-08	9.569E-09	3.193E-09	1.468E-09	8.830E-10	6.023E-10
W	6.852E-07	1.514E-07	4.381E-08	2.124E-08	1.280E-08	5.411E-09	1.776E-09	8.033E-10	4.776E-10	3.229E-10
WNW	1.635E-06	3.698E-07	1.137E-07	5.713E-08	3.528E-08	1.540E-08	5.255E-09	2.406E-09	1.421E-09	9.479E-10
NW	1.451E-06	3.387E-07	1.034E-07	5.170E-08	3.185E-08	1.387E-08	4.770E-09	2.234E-09	1.353E-09	9.252E-10
NNW	1.598E-06	3.743E-07	1.148E-07	5.763E-08	3.560E-08	1.560E-08	5.407E-09	2.537E-09	1.536E-09	1.049E-09
N	4.087E-06	9.777E-07	3.139E-07	1.613E-07	1.011E-07	4.506E-08	1.584E-08	7.392E-09	4.408E-09	2.957E-09
NNE	1.757E-06	4.147E-07	1.324E-07	6.790E-08	4.255E-08	1.899E-08	6.721E-09	3.167E-09	1.907E-09	1.292E-09
NE	1.536E-06	3.629E-07	1.158E-07	5.929E-08	3.707E-08	1.642E-08	5.695E-09	2.614E-09	1.536E-09	1.017E-09
ENE	7.861E-07	1.843E-07	6.087E-08	3.174E-08	2.009E-08	9.072E-09	3.233E-09	1.511E-09	8.960E-10	5.972E-10
E	5.355E-07	1.282E-07	4.049E-08	2.065E-08	1.290E-08	5.740E-09	2.039E-09	9.755E-10	5.983E-10	4.130E-10
ESE	1.463E-06	3.324E-07	1.087E-07	5.643E-08	3.564E-08	1.604E-08	5.704E-09	2.669E-09	1.585E-09	1.057E-09
SE	2.329E-06	5.573E-07	1.737E-07	8.784E-08	5.449E-08	2.393E-08	8.262E-09	3.829E-09	2.283E-09	1.536E-09
SSE	5.791E-06	1.369E-06	4.365E-07	2.235E-07	1.397E-07	6.204E-08	2.168E-08	1.007E-08	5.982E-09	4.002E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
	DISTANCE IN MILES										
S	2.294E-05	7.029E-06	3.768E-06	1.893E-06	7.480E-07	3.983E-07	2.485E-07	1.709E-07	1.255E-07	9.657E-08	7.698E-08
SSW	1.078E-05	3.497E-06	1.849E-06	9.108E-07	3.669E-07	1.803E-07	1.105E-07	7.493E-08	5.439E-08	4.145E-08	3.276E-08
SW	5.383E-06	1.795E-06	9.505E-07	4.676E-07	1.779E-07	9.232E-08	5.654E-08	3.827E-08	2.775E-08	2.113E-08	1.669E-08
WSW	5.810E-06	1.991E-06	1.042E-06	5.075E-07	1.899E-07	9.740E-08	5.905E-08	3.968E-08	2.858E-08	2.163E-08	1.700E-08
W	3.525E-06	1.218E-06	6.298E-07	3.049E-07	1.123E-07	5.708E-08	3.436E-08	2.295E-08	1.645E-08	1.240E-08	9.700E-09
WNW	8.987E-06	2.931E-06	1.496E-06	7.255E-07	2.795E-07	1.465E-07	9.029E-08	6.152E-08	4.483E-08	3.428E-08	2.717E-08
NW	7.890E-06	2.526E-06	1.342E-06	6.655E-07	2.549E-07	1.329E-07	8.158E-08	5.539E-08	4.024E-08	3.069E-08	2.428E-08
NNW	8.469E-06	2.774E-06	1.482E-06	7.344E-07	2.820E-07	1.474E-07	9.071E-08	6.172E-08	4.492E-08	3.432E-08	2.718E-08
N	2.374E-05	7.153E-06	3.768E-06	1.883E-06	7.485E-07	4.004E-07	2.506E-07	1.728E-07	1.272E-07	9.808E-08	7.832E-08
NNE	1.011E-05	3.097E-06	1.615E-06	8.001E-07	3.164E-07	1.688E-07	1.054E-07	7.260E-08	5.337E-08	4.113E-08	3.282E-08
NE	8.559E-06	2.706E-06	1.416E-06	7.010E-07	2.777E-07	1.481E-07	9.256E-08	6.372E-08	4.684E-08	3.607E-08	2.878E-08
ENE	4.835E-06	1.421E-06	7.132E-07	3.503E-07	1.423E-07	7.722E-08	4.885E-08	3.396E-08	2.516E-08	1.951E-08	1.565E-08
E	3.003E-06	9.272E-07	4.956E-07	2.482E-07	9.738E-08	5.162E-08	3.209E-08	2.201E-08	1.613E-08	1.239E-08	9.867E-09
ESE	9.147E-06	2.693E-06	1.317E-06	6.358E-07	2.561E-07	1.383E-07	8.723E-08	6.053E-08	4.479E-08	3.470E-08	2.782E-08
SE	1.288E-05	4.013E-06	2.164E-06	1.086E-06	4.229E-07	2.229E-07	1.380E-07	9.433E-08	6.891E-08	5.281E-08	4.194E-08
SSE	3.355E-05	1.020E-05	5.325E-06	2.645E-06	1.047E-06	5.579E-07	3.484E-07	2.397E-07	1.762E-07	1.356E-07	1.082E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CU)

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
	DISTANCE IN MILES										
S	6.308E-08	3.110E-08	1.936E-08	1.034E-08	6.575E-09	4.597E-09	3.414E-09	2.643E-09	2.110E-09	1.724E-09	1.434E-09
SSW	2.666E-08	1.284E-08	7.873E-09	4.126E-09	2.596E-09	1.802E-09	1.332E-09	1.027E-09	8.175E-10	6.665E-10	5.539E-10
SW	1.356E-08	6.495E-09	3.965E-09	2.068E-09	1.297E-09	8.989E-10	6.637E-10	5.119E-10	4.077E-10	3.327E-10	2.768E-10
WSW	1.375E-08	6.465E-09	3.897E-09	1.998E-09	1.240E-09	8.528E-10	6.260E-10	4.806E-10	3.813E-10	3.102E-10	2.574E-10
W	7.828E-09	3.654E-09	2.191E-09	1.113E-09	6.855E-10	4.685E-10	3.421E-10	2.614E-10	2.066E-10	1.675E-10	1.386E-10
WNW	2.216E-08	1.075E-08	6.625E-09	3.493E-09	2.204E-09	1.532E-09	1.133E-09	8.746E-10	6.963E-10	5.677E-10	4.716E-10
NW	1.976E-08	9.505E-09	5.822E-09	3.052E-09	1.924E-09	1.338E-09	9.907E-10	7.659E-10	6.111E-10	4.995E-10	4.161E-10
NNW	2.216E-08	1.073E-08	6.603E-09	3.479E-09	2.196E-09	1.529E-09	1.132E-09	8.758E-10	6.990E-10	5.714E-10	4.761E-10
N	6.426E-08	3.183E-08	1.988E-08	1.067E-08	6.817E-09	4.782E-09	3.561E-09	2.763E-09	2.210E-09	1.808E-09	1.507E-09
NNE	2.692E-08	1.334E-08	8.332E-09	4.480E-09	2.864E-09	2.012E-09	1.500E-09	1.165E-09	9.332E-10	7.648E-10	6.382E-10
NE	2.359E-08	1.164E-08	7.246E-09	3.870E-09	2.458E-09	1.717E-09	1.274E-09	9.850E-10	7.852E-10	6.407E-10	5.325E-10
ENE	1.290E-08	6.490E-09	4.095E-09	2.227E-09	1.432E-09	1.010E-09	7.543E-10	5.866E-10	4.699E-10	3.850E-10	3.212E-10
E	8.076E-09	3.969E-09	2.467E-09	1.319E-09	8.409E-10	5.901E-10	4.400E-10	3.421E-10	2.743E-10	2.252E-10	1.883E-10
ESE	2.291E-08	1.151E-08	7.257E-09	3.952E-09	2.549E-09	1.801E-09	1.348E-09	1.050E-09	8.423E-10	6.910E-10	5.770E-10
SE	3.425E-08	1.669E-08	1.031E-08	5.454E-09	3.458E-09	2.404E-09	1.781E-09	1.377E-09	1.098E-09	8.961E-10	7.455E-10
SSE	8.869E-08	4.379E-08	2.729E-08	1.461E-08	9.313E-09	6.524E-09	4.853E-09	3.762E-09	3.006E-09	2.458E-09	2.047E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES									
S	3.659E-06	8.471E-07	2.574E-07	1.274E-07	7.764E-08	3.299E-08	1.067E-08	4.651E-09	2.660E-09	1.731E-09
SSW	1.798E-06	3.982E-07	1.149E-07	5.533E-08	3.308E-08	1.371E-08	4.279E-09	1.826E-09	1.034E-09	6.695E-10
SW	9.234E-07	2.042E-07	5.876E-08	2.824E-08	1.685E-08	6.941E-09	2.147E-09	9.110E-10	5.156E-10	3.342E-10
WSW	1.015E-06	2.194E-07	6.153E-08	2.910E-08	1.717E-08	6.943E-09	2.083E-09	8.654E-10	4.843E-10	3.117E-10
W	6.158E-07	1.304E-07	3.585E-08	1.676E-08	9.805E-09	3.931E-09	1.163E-09	4.758E-10	2.636E-10	1.684E-10
WNW	1.472E-06	3.195E-07	9.376E-08	4.558E-08	2.742E-08	1.145E-08	3.616E-09	1.552E-09	8.806E-10	5.702E-10
NW	1.304E-06	2.919E-07	8.478E-08	4.093E-08	2.451E-08	1.015E-08	3.166E-09	1.355E-09	7.711E-10	5.016E-10
NNW	1.437E-06	3.227E-07	9.423E-08	4.568E-08	2.744E-08	1.144E-08	3.603E-09	1.548E-09	8.818E-10	5.739E-10
N	3.682E-06	8.458E-07	2.594E-07	1.291E-07	7.896E-08	3.372E-08	1.100E-08	4.836E-09	2.780E-09	1.816E-09
NNE	1.582E-06	3.583E-07	1.092E-07	5.420E-08	3.309E-08	1.413E-08	4.618E-09	2.034E-09	1.173E-09	7.678E-10
NE	1.385E-06	3.142E-07	9.585E-08	4.756E-08	2.902E-08	1.234E-08	3.993E-09	1.738E-09	9.914E-10	6.435E-10
ENE	7.091E-07	1.596E-07	5.046E-08	2.552E-08	1.578E-08	6.850E-09	2.289E-09	1.020E-09	5.901E-10	3.865E-10
E	4.816E-07	1.106E-07	3.327E-08	1.639E-08	9.953E-09	4.214E-09	1.362E-09	5.970E-10	3.443E-10	2.261E-10
ESE	1.320E-06	2.881E-07	9.017E-08	4.544E-08	2.804E-08	1.215E-08	4.063E-09	1.819E-09	1.056E-09	6.936E-10
SE	2.096E-06	4.815E-07	1.432E-07	7.004E-08	4.231E-08	1.776E-08	5.642E-09	2.434E-09	1.386E-09	9.000E-10
SSE	5.218E-06	1.185E-06	3.608E-07	1.789E-07	1.091E-07	4.643E-08	1.507E-08	6.599E-09	3.785E-09	2.468E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	6.080E-08	2.056E-08	1.056E-08	5.019E-09	1.803E-09	8.941E-10	5.264E-10	3.447E-10	2.426E-10	1.798E-10	1.385E-10
SSW	4.969E-08	1.680E-08	8.628E-09	4.102E-09	1.473E-09	7.306E-10	4.302E-10	2.817E-10	1.982E-10	1.469E-10	1.132E-10
SW	2.583E-08	8.733E-09	4.484E-09	2.132E-09	7.657E-10	3.797E-10	2.236E-10	1.464E-10	1.030E-10	7.635E-11	5.884E-11
WSW	4.585E-08	1.550E-08	7.961E-09	3.785E-09	1.359E-09	6.742E-10	3.970E-10	2.599E-10	1.829E-10	1.355E-10	1.045E-10
W	3.356E-08	1.135E-08	5.827E-09	2.770E-09	9.951E-10	4.935E-10	2.906E-10	1.903E-10	1.339E-10	9.922E-11	7.646E-11
WNW	3.839E-08	1.298E-08	6.666E-09	3.169E-09	1.138E-09	5.645E-10	3.324E-10	2.177E-10	1.532E-10	1.135E-10	8.747E-11
NW	4.824E-08	1.631E-08	8.375E-09	3.982E-09	1.430E-09	7.093E-10	4.176E-10	2.735E-10	1.924E-10	1.426E-10	1.099E-10
NNW	5.838E-08	1.974E-08	1.014E-08	4.819E-09	1.731E-09	8.584E-10	5.055E-10	3.310E-10	2.329E-10	1.726E-10	1.330E-10
N	9.319E-08	3.151E-08	1.618E-08	7.692E-09	2.763E-09	1.370E-09	8.069E-10	5.283E-10	3.718E-10	2.755E-10	2.123E-10
NNE	5.753E-08	1.946E-08	9.989E-09	4.749E-09	1.706E-09	8.460E-10	4.981E-10	3.262E-10	2.295E-10	1.701E-10	1.311E-10
NE	1.741E-08	5.886E-09	3.022E-09	1.437E-09	5.161E-10	2.560E-10	1.507E-10	9.868E-11	6.944E-11	5.146E-11	3.966E-11
ENE	1.041E-08	3.521E-09	1.808E-09	8.594E-10	3.087E-10	1.531E-10	9.014E-11	5.903E-11	4.153E-11	3.078E-11	2.372E-11
E	1.800E-08	6.085E-09	3.125E-09	1.485E-09	5.336E-10	2.646E-10	1.558E-10	1.020E-10	7.179E-11	5.320E-11	4.100E-11
ESE	4.090E-08	1.383E-08	7.101E-09	3.376E-09	1.213E-09	6.014E-10	3.541E-10	2.319E-10	1.632E-10	1.209E-10	9.318E-11
SE	8.115E-08	2.744E-08	1.409E-08	6.699E-09	2.406E-09	1.193E-09	7.026E-10	4.601E-10	3.237E-10	2.399E-10	1.849E-10
SSE	1.228E-07	4.154E-08	2.133E-08	1.014E-08	3.642E-09	1.806E-09	1.064E-09	6.964E-10	4.900E-10	3.632E-10	2.799E-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	1.100E-10	4.889E-11	2.961E-11	1.497E-11	9.060E-12	6.074E-12	4.353E-12	3.268E-12	2.541E-12	2.030E-12	1.657E-12
SSW	8.993E-11	3.995E-11	2.420E-11	1.223E-11	7.404E-12	4.964E-12	3.557E-12	2.671E-12	2.077E-12	1.659E-12	1.354E-12
SW	4.674E-11	2.076E-11	1.258E-11	6.358E-12	3.848E-12	2.580E-12	1.849E-12	1.388E-12	1.079E-12	8.622E-13	7.037E-13
WSW	8.298E-11	3.686E-11	2.233E-11	1.129E-11	6.831E-12	4.580E-12	3.282E-12	2.464E-12	1.916E-12	1.531E-12	1.249E-12
W	6.074E-11	2.698E-11	1.635E-11	8.262E-12	5.000E-12	3.353E-12	2.402E-12	1.804E-12	1.403E-12	1.120E-12	9.145E-13
WNW	6.949E-11	3.087E-11	1.870E-11	9.452E-12	5.721E-12	3.836E-12	2.748E-12	2.064E-12	1.605E-12	1.282E-12	1.046E-12
NW	8.731E-11	3.878E-11	2.349E-11	1.187E-11	7.187E-12	4.819E-12	3.453E-12	2.593E-12	2.016E-12	1.610E-12	1.314E-12
NNW	1.057E-10	4.694E-11	2.843E-11	1.437E-11	8.698E-12	5.832E-12	4.179E-12	3.138E-12	2.440E-12	1.949E-12	1.591E-12
N	1.687E-10	7.493E-11	4.539E-11	2.294E-11	1.389E-11	9.310E-12	6.671E-12	5.009E-12	3.895E-12	3.111E-12	2.539E-12
NNE	1.041E-10	4.626E-11	2.802E-11	1.416E-11	8.572E-12	5.747E-12	4.118E-12	3.092E-12	2.404E-12	1.921E-12	1.568E-12
NE	3.150E-11	1.400E-11	8.478E-12	4.285E-12	2.594E-12	1.739E-12	1.246E-12	9.356E-13	7.275E-13	5.811E-13	4.743E-13
ENE	1.884E-11	8.371E-12	5.071E-12	2.563E-12	1.551E-12	1.040E-12	7.453E-13	5.596E-13	4.351E-13	3.476E-13	2.837E-13
E	3.257E-11	1.447E-11	8.765E-12	4.430E-12	2.681E-12	1.798E-12	1.288E-12	9.673E-13	7.521E-13	6.008E-13	4.904E-13
ESE	7.402E-11	3.288E-11	1.992E-11	1.007E-11	6.094E-12	4.086E-12	2.928E-12	2.198E-12	1.709E-12	1.365E-12	1.114E-12
SE	1.469E-10	6.525E-11	3.952E-11	1.998E-11	1.209E-11	8.107E-12	5.809E-12	4.362E-12	3.392E-12	2.709E-12	2.211E-12
SSE	2.223E-10	9.877E-11	5.983E-11	3.024E-11	1.830E-11	1.227E-11	8.794E-12	6.603E-12	5.134E-12	4.101E-12	3.347E-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	1.032E-08	2.114E-09	5.518E-10	2.478E-10	1.402E-10	5.391E-11	1.560E-11	6.182E-12	3.301E-12	2.043E-12
SSW	8.433E-09	1.727E-09	4.509E-10	2.025E-10	1.146E-10	4.406E-11	1.275E-11	5.052E-12	2.698E-12	1.670E-12
SW	4.383E-09	8.977E-10	2.344E-10	1.053E-10	5.955E-11	2.290E-11	6.624E-12	2.626E-12	1.402E-12	8.678E-13
WSW	7.781E-09	1.594E-09	4.161E-10	1.869E-10	1.057E-10	4.065E-11	1.176E-11	4.661E-12	2.489E-12	1.541E-12
W	5.695E-09	1.167E-09	3.046E-10	1.368E-10	7.738E-11	2.976E-11	8.608E-12	3.412E-12	1.822E-12	1.128E-12
WNW	6.516E-09	1.335E-09	3.484E-10	1.565E-10	8.853E-11	3.404E-11	9.848E-12	3.903E-12	2.084E-12	1.290E-12
NW	8.186E-09	1.677E-09	4.378E-10	1.966E-10	1.112E-10	4.277E-11	1.237E-11	4.904E-12	2.619E-12	1.621E-12
NNW	9.907E-09	2.029E-09	5.298E-10	2.379E-10	1.346E-10	5.176E-11	1.497E-11	5.935E-12	3.169E-12	1.962E-12
N	1.582E-08	3.239E-09	8.457E-10	3.798E-10	2.149E-10	8.263E-11	2.390E-11	9.474E-12	5.059E-12	3.132E-12
NNE	9.764E-09	2.000E-09	5.221E-10	2.345E-10	1.327E-10	5.101E-11	1.476E-11	5.849E-12	3.123E-12	1.933E-12
NE	2.954E-09	6.051E-10	1.580E-10	7.095E-11	4.013E-11	1.543E-11	4.465E-12	1.770E-12	9.450E-13	5.849E-13
ENE	1.767E-09	3.619E-10	9.448E-11	4.243E-11	2.401E-11	9.231E-12	2.671E-12	1.058E-12	5.652E-13	3.499E-13
E	3.054E-09	6.256E-10	1.633E-10	7.335E-11	4.149E-11	1.596E-11	4.616E-12	1.830E-12	9.770E-13	6.047E-13
ESE	6.941E-09	1.422E-09	3.712E-10	1.667E-10	9.430E-11	3.626E-11	1.049E-11	4.158E-12	2.220E-12	1.374E-12
SE	1.377E-08	2.821E-09	7.364E-10	3.308E-10	1.871E-10	7.195E-11	2.082E-11	8.250E-12	4.406E-12	2.727E-12
SSE	2.085E-08	4.270E-09	1.115E-09	5.007E-10	2.832E-10	1.089E-10	3.151E-11	1.249E-11	6.669E-12	4.128E-12

VENTS GROUND LEVEL RELEASES - APR-JUN 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	3.660E-06	3.633E-06	3.242E-06	8.978E-09
A	SITE BOUNDARY	SSW	0.82	1327.	1.658E-06	1.648E-06	1.467E-06	6.770E-09
A	SITE BOUNDARY	SW	0.98	1569.	5.680E-07	5.651E-07	4.973E-07	2.275E-09
A	SITE BOUNDARY	WSW	0.93	1489.	7.004E-07	6.983E-07	6.157E-07	4.625E-09
A	SITE BOUNDARY	W	0.91	1468.	4.357E-07	4.343E-07	3.833E-07	3.512E-09
A	SITE BOUNDARY	WNW	0.94	1509.	9.688E-07	9.621E-07	8.508E-07	3.741E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.251E-06	1.247E-06	1.109E-06	6.840E-09
A	SITE BOUNDARY	NNW	0.69	1106.	1.896E-06	1.889E-06	1.696E-06	1.174E-08
A	SITE BOUNDARY	N	0.67	1086.	4.952E-06	4.922E-06	4.431E-06	1.932E-08
A	SITE BOUNDARY	NNE	0.60	965.	2.554E-06	2.542E-06	2.303E-06	1.445E-08
A	SITE BOUNDARY	NE	0.62	1005.	2.103E-06	2.090E-06	1.889E-06	4.110E-09
A	SITE BOUNDARY	ENE	0.59	945.	1.193E-06	1.186E-06	1.077E-06	2.708E-09
A	SITE BOUNDARY	E	0.53	845.	9.375E-07	9.347E-07	8.528E-07	5.619E-09
A	SITE BOUNDARY	ESE	0.54	865.	2.607E-06	2.591E-06	2.366E-06	1.229E-08
A	SITE BOUNDARY	SE	0.65	1046.	2.987E-06	2.973E-06	2.679E-06	1.792E-08
A	SITE BOUNDARY	SSE	0.81	1307.	4.966E-06	4.930E-06	4.395E-06	1.742E-08
A	NEAR. RESIDENCE	SSW	1.80	2897.	2.743E-07	2.707E-07	2.285E-07	9.425E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	2.901E-07	2.881E-07	2.487E-07	1.093E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.113E-07	3.100E-07	2.671E-07	1.941E-09
A	NEAR. RESIDENCE	W	1.00	1609.	3.476E-07	3.465E-07	3.040E-07	2.770E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.867E-07	2.832E-07	2.414E-07	9.713E-10
A	NEAR. RESIDENCE	NW	0.90	1448.	9.777E-07	9.736E-07	8.607E-07	5.232E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.991E-07	1.971E-07	1.652E-07	9.713E-10
A	NEAR. RESIDENCE	N	3.00	4828.	2.194E-07	2.132E-07	1.728E-07	5.283E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	1.127E-07	1.102E-07	8.997E-08	4.162E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.302E-07	1.277E-07	1.088E-07	2.270E-10
A	NEAR. RESIDENCE	E	1.80	2897.	7.792E-08	7.708E-08	6.495E-08	3.413E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	1.175E-07	1.142E-07	9.478E-08	3.897E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	2.220E-07	2.183E-07	1.813E-07	9.501E-10
A	NEAREST COW	NNW	3.50	5633.	5.788E-08	5.677E-08	4.492E-08	2.328E-10
A	NEAREST GARDEN	SSW	1.80	2897.	2.743E-07	2.707E-07	2.285E-07	9.425E-10
A	NEAREST GARDEN	SW	2.20	3541.	9.135E-08	9.029E-08	7.471E-08	3.024E-10
A	NEAREST GARDEN	WSW	1.30	2092.	3.113E-07	3.100E-07	2.671E-07	1.941E-09
A	NEAREST GARDEN	WNW	2.30	3702.	1.329E-07	1.305E-07	1.080E-07	4.045E-10
A	NEAREST GARDEN	NW	0.90	1448.	9.777E-07	9.736E-07	8.607E-07	5.232E-09
A	NEAREST GARDEN	N	3.00	4828.	2.194E-07	2.132E-07	1.728E-07	5.283E-10
A	NEAREST GARDEN	ENE	1.70	2736.	1.302E-07	1.277E-07	1.088E-07	2.270E-10
A	NEAREST GARDEN	E	1.80	2897.	7.792E-08	7.708E-08	6.495E-08	3.413E-10
A	NEAREST GARDEN	ESE	2.60	4184.	1.008E-07	9.773E-08	8.059E-08	3.231E-10

Atmospheric Diffusion Estimates

Ground Level Releases

January-June 1996

VENTS GROUND LEVEL RELEASES - JAN-JUN 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	DISTANCE IN MILES 0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.453E-05	8.074E-06	4.405E-06	2.232E-06	8.932E-07	4.824E-07	3.052E-07	2.128E-07	1.583E-07	1.233E-07	9.950E-08
SSW	1.506E-05	4.994E-06	2.632E-06	1.309E-06	5.250E-07	2.842E-07	1.801E-07	1.258E-07	9.373E-08	7.315E-08	5.910E-08
SW	8.353E-06	2.764E-06	1.477E-06	7.409E-07	2.973E-07	1.609E-07	1.020E-07	7.116E-08	5.300E-08	4.134E-08	3.338E-08
WSW	6.512E-06	2.306E-06	1.240E-06	6.157E-07	2.376E-07	1.250E-07	7.751E-08	5.313E-08	3.896E-08	2.998E-08	2.392E-08
W	5.226E-06	1.891E-06	1.013E-06	5.008E-07	1.920E-07	1.006E-07	6.210E-08	4.243E-08	3.103E-08	2.383E-08	1.897E-08
WNW	1.187E-05	4.154E-06	2.216E-06	1.099E-06	4.278E-07	2.266E-07	1.412E-07	9.719E-08	7.154E-08	5.524E-08	4.421E-08
NW	2.505E-05	8.021E-06	4.184E-06	2.084E-06	8.507E-07	4.660E-07	2.981E-07	2.097E-07	1.572E-07	1.233E-07	1.000E-07
NNW	2.958E-05	9.614E-06	5.161E-06	2.603E-06	1.059E-06	5.788E-07	3.694E-07	2.594E-07	1.941E-07	1.521E-07	1.232E-07
N	3.734E-05	1.187E-05	6.431E-06	3.271E-06	1.339E-06	7.345E-07	4.701E-07	3.307E-07	2.479E-07	1.944E-07	1.577E-07
NNE	2.429E-05	7.695E-06	4.062E-06	2.040E-06	8.358E-07	4.588E-07	2.938E-07	2.069E-07	1.552E-07	1.218E-07	9.887E-08
NE	1.081E-05	3.512E-06	1.887E-06	9.524E-07	3.877E-07	2.119E-07	1.352E-07	9.494E-08	7.105E-08	5.565E-08	4.510E-08
ENE	1.346E-05	4.287E-06	2.316E-06	1.177E-06	4.822E-07	2.645E-07	1.692E-07	1.190E-07	8.920E-08	6.995E-08	5.674E-08
E	9.475E-06	3.090E-06	1.690E-06	8.598E-07	3.474E-07	1.888E-07	1.200E-07	8.395E-08	6.263E-08	4.893E-08	3.956E-08
ESE	1.825E-05	6.255E-06	3.337E-06	1.661E-06	6.581E-07	3.531E-07	2.222E-07	1.543E-07	1.144E-07	8.889E-08	7.153E-08
SE	2.596E-05	8.983E-06	4.880E-06	2.449E-06	9.619E-07	5.126E-07	3.209E-07	2.217E-07	1.637E-07	1.267E-07	1.017E-07
SSE	3.290E-05	1.078E-05	5.822E-06	2.939E-06	1.179E-06	6.375E-07	4.037E-07	2.815E-07	2.095E-07	1.633E-07	1.318E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	DISTANCE IN MILES 5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.248E-08	4.268E-08	2.779E-08	1.605E-08	1.093E-08	8.127E-09	6.388E-09	5.215E-09	4.378E-09	3.753E-09	3.271E-09
SSW	4.906E-08	2.554E-08	1.671E-08	9.720E-09	6.654E-09	4.970E-09	3.922E-09	3.213E-09	2.705E-09	2.326E-09	2.032E-09
SW	2.769E-08	1.436E-08	9.367E-09	5.426E-09	3.701E-09	2.757E-09	2.170E-09	1.774E-09	1.491E-09	1.280E-09	1.117E-09
WSW	1.963E-08	9.768E-09	6.186E-09	3.437E-09	2.280E-09	1.662E-09	1.285E-09	1.035E-09	8.582E-10	7.281E-10	6.287E-10
W	1.554E-08	7.683E-09	4.841E-09	2.669E-09	1.759E-09	1.275E-09	9.819E-10	7.877E-10	6.512E-10	5.509E-10	4.744E-10
WNW	3.639E-08	1.832E-08	1.170E-08	6.583E-09	4.402E-09	3.229E-09	2.511E-09	2.031E-09	1.692E-09	1.441E-09	1.249E-09
NW	8.335E-08	4.396E-08	2.903E-08	1.710E-08	1.182E-08	8.887E-09	7.051E-09	5.803E-09	4.906E-09	4.232E-09	3.710E-09
NNW	1.026E-07	5.383E-08	3.541E-08	2.074E-08	1.426E-08	1.068E-08	8.442E-09	6.927E-09	5.840E-09	5.026E-09	4.396E-09
N	1.314E-07	6.919E-08	4.561E-08	2.679E-08	1.843E-08	1.382E-08	1.094E-08	8.979E-09	7.573E-09	6.520E-09	5.704E-09
NNE	8.241E-08	4.352E-08	2.876E-08	1.695E-08	1.171E-08	8.803E-09	6.982E-09	5.745E-09	4.855E-09	4.187E-09	3.669E-09
NE	3.753E-08	1.969E-08	1.294E-08	7.577E-09	5.205E-09	3.897E-09	3.081E-09	2.527E-09	2.130E-09	1.833E-09	1.603E-09
ENE	4.725E-08	2.485E-08	1.637E-08	9.596E-09	6.595E-09	4.940E-09	3.905E-09	3.204E-09	2.701E-09	2.325E-09	2.033E-09
E	3.284E-08	1.708E-08	1.116E-08	6.477E-09	4.423E-09	3.296E-09	2.595E-09	2.122E-09	1.783E-09	1.531E-09	1.335E-09
ESE	5.916E-08	3.032E-08	1.962E-08	1.125E-08	7.626E-09	5.654E-09	4.434E-09	3.614E-09	3.029E-09	2.594E-09	2.259E-09
SE	8.383E-08	4.248E-08	2.725E-08	1.542E-08	1.034E-08	7.603E-09	5.921E-09	4.796E-09	3.999E-09	3.408E-09	2.955E-09
SSE	1.093E-07	5.652E-08	3.681E-08	2.127E-08	1.448E-08	1.077E-08	8.471E-09	6.919E-09	5.810E-09	4.983E-09	4.345E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.254E-06	1.008E-06	3.155E-07	1.605E-07	1.003E-07	4.491E-08	1.639E-08	8.179E-09	5.231E-09	3.760E-09
SSW	2.569E-06	5.922E-07	1.861E-07	9.505E-08	5.954E-08	2.684E-08	9.910E-09	5.000E-09	3.222E-09	2.329E-09
SW	1.436E-06	3.353E-07	1.054E-07	5.374E-08	3.363E-08	1.510E-08	5.535E-09	2.774E-09	1.780E-09	1.282E-09
WSW	1.199E-06	2.716E-07	8.043E-08	3.959E-08	2.413E-08	1.037E-08	3.534E-09	1.676E-09	1.039E-09	7.298E-10
W	9.806E-07	2.200E-07	6.449E-08	3.155E-08	1.914E-08	8.166E-09	2.747E-09	1.287E-09	7.912E-10	5.523E-10
WNW	2.150E-06	4.875E-07	1.464E-07	7.266E-08	4.458E-08	1.939E-08	6.751E-09	3.255E-09	2.039E-09	1.444E-09
NW	4.103E-06	9.538E-07	3.075E-07	1.593E-07	1.007E-07	4.608E-08	1.740E-08	8.934E-09	5.818E-09	4.238E-09
NNW	5.014E-06	1.189E-06	3.812E-07	1.967E-07	1.241E-07	5.648E-08	2.112E-08	1.074E-08	6.946E-09	5.034E-09
N	6.234E-06	1.500E-06	4.848E-07	2.512E-07	1.589E-07	7.254E-08	2.726E-08	1.390E-08	9.002E-09	6.530E-09
NNE	3.971E-06	9.359E-07	3.030E-07	1.572E-07	9.956E-08	4.560E-08	1.724E-08	8.849E-09	5.759E-09	4.193E-09
NE	1.833E-06	4.350E-07	1.396E-07	7.201E-08	4.542E-08	2.065E-08	7.715E-09	3.919E-09	2.534E-09	1.836E-09
ENE	2.248E-06	5.399E-07	1.745E-07	9.039E-08	5.714E-08	2.606E-08	9.767E-09	4.967E-09	3.213E-09	2.328E-09
E	1.632E-06	3.908E-07	1.239E-07	6.350E-08	3.985E-08	1.795E-08	6.605E-09	3.316E-09	2.128E-09	1.533E-09
ESE	3.241E-06	7.455E-07	2.299E-07	1.161E-07	7.209E-08	3.197E-08	1.150E-08	5.692E-09	3.625E-09	2.599E-09
SE	4.711E-06	1.093E-06	3.323E-07	1.662E-07	1.025E-07	4.490E-08	1.579E-08	7.660E-09	4.814E-09	3.416E-09
SSE	5.643E-06	1.329E-06	4.172E-07	2.125E-07	1.328E-07	5.948E-08	2.170E-08	1.084E-08	6.940E-09	4.992E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.450E-05	8.052E-06	4.387E-06	2.219E-06	8.856E-07	4.769E-07	3.008E-07	2.090E-07	1.550E-07	1.204E-07	9.687E-08
SSW	1.503E-05	4.979E-06	2.620E-06	1.301E-06	5.202E-07	2.806E-07	1.773E-07	1.234E-07	9.162E-08	7.126E-08	5.737E-08
SW	8.341E-06	2.757E-06	1.471E-06	7.369E-07	2.949E-07	1.591E-07	1.005E-07	6.996E-08	5.194E-08	4.040E-08	3.252E-08
WSW	6.506E-06	2.302E-06	1.236E-06	6.135E-07	2.363E-07	1.241E-07	7.679E-08	5.[illegible]E-08	3.845E-08	2.953E-08	2.352E-08
W	5.223E-06	1.889E-06	1.011E-06	4.996E-07	1.913E-07	1.001E-07	6.171E-08	4.211E-08	3.076E-08	2.359E-08	1.875E-08
WNW	1.186E-05	4.146E-06	2.210E-06	1.095E-06	4.255E-07	2.249E-07	1.399E-07	9.610E-08	7.060E-08	5.441E-08	4.345E-08
NW	2.501E-05	7.699E-06	4.167E-06	2.073E-06	8.436E-07	4.607E-07	2.938E-07	2.060E-07	1.539E-07	1.204E-07	9.735E-08
NNW	2.954E-05	9.587E-06	5.140E-06	2.588E-06	1.050E-06	5.721E-07	3.641E-07	2.548E-07	1.901E-07	1.485E-07	1.200E-07
N	3.728E-05	1.183E-05	6.402E-06	3.251E-06	1.327E-06	7.254E-07	4.628E-07	3.245E-07	2.425E-07	1.896E-07	1.533E-07
NNE	2.426E-05	7.673E-06	4.046E-06	2.029E-06	8.287E-07	4.535E-07	2.896E-07	2.032E-07	1.520E-07	1.189E-07	9.625E-08
NE	1.079E-05	3.502E-06	1.879E-06	9.469E-07	3.843E-07	2.093E-07	1.332E-07	9.323E-08	6.955E-08	5.431E-08	4.388E-08
ENE	1.344E-05	4.275E-06	2.307E-06	1.171E-06	4.782E-07	2.615E-07	1.669E-07	1.170E-07	8.745E-08	6.838E-08	5.531E-08
E	9.465E-06	3.084E-06	1.685E-06	8.563E-07	3.453E-07	1.873E-07	1.188E-07	8.289E-08	6.170E-08	4.809E-08	3.880E-08
ESE	1.822E-05	6.241E-06	3.326E-06	1.654E-06	6.535E-07	3.497E-07	2.196E-07	1.520E-07	1.124E-07	8.713E-08	6.994E-08
SE	2.593E-05	8.967E-06	4.866E-06	2.440E-06	9.563E-07	5.085E-07	3.177E-07	2.190E-07	1.614E-07	1.247E-07	9.978E-08
SSE	3.286E-05	1.075E-05	5.798E-06	2.923E-06	1.169E-06	6.301E-07	3.978E-07	2.766E-07	2.052E-07	1.594E-07	1.283E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.006E-08	4.079E-08	2.616E-08	1.466E-08	9.692E-09	7.001E-09	5.348E-09	4.246E-09	3.468E-09	2.894E-09	2.457E-09
SSW	4.746E-08	2.428E-08	1.562E-08	8.782E-09	5.814E-09	4.202E-09	3.210E-09	2.548E-09	2.080E-09	1.734E-09	1.470E-09
SW	2.690E-08	1.374E-08	8.830E-09	4.965E-09	3.289E-09	2.381E-09	1.822E-09	1.449E-09	1.185E-09	9.903E-10	8.417E-10
WSW	1.927E-08	9.494E-09	5.955E-09	3.247E-09	2.114E-09	1.512E-09	1.148E-09	9.079E-10	7.397E-10	6.165E-10	5.232E-10
W	1.535E-08	7.538E-09	4.719E-09	2.569E-09	1.672E-09	1.197E-09	9.099E-10	7.209E-10	5.886E-10	4.918E-10	4.184E-10
WNW	3.570E-08	1.779E-08	1.125E-08	6.205E-09	4.068E-09	2.926E-09	2.232E-09	1.771E-09	1.448E-09	1.210E-09	1.029E-09
NW	8.086E-08	4.197E-08	2.727E-08	1.557E-08	1.043E-08	7.611E-09	5.863E-09	4.688E-09	3.852E-09	3.232E-09	2.757E-09
NNW	9.952E-08	5.144E-08	3.332E-08	1.893E-08	1.263E-08	9.187E-09	7.059E-09	5.632E-09	4.620E-09	3.870E-09	3.297E-09
N	1.273E-07	6.598E-08	4.281E-08	2.437E-08	1.627E-08	1.184E-08	9.102E-09	7.264E-09	5.959E-09	4.993E-09	4.254E-09
NNE	7.998E-08	4.160E-08	2.707E-08	1.548E-08	1.038E-08	7.587E-09	5.851E-09	4.684E-09	3.854E-09	3.238E-09	2.766E-09
NE	3.640E-08	1.880E-08	1.217E-08	6.911E-09	4.609E-09	3.352E-09	2.576E-09	2.055E-09	1.686E-09	1.413E-09	1.204E-09
ENE	4.593E-08	2.381E-08	1.546E-08	8.812E-09	5.891E-09	4.295E-09	3.308E-09	2.645E-09	2.175E-09	1.826E-09	1.559E-09
E	3.214E-08	1.653E-08	1.068E-08	6.067E-09	4.055E-09	2.960E-09	2.283E-09	1.830E-09	1.508E-09	1.269E-09	1.086E-09
ESE	5.769E-08	2.918E-08	1.863E-08	1.040E-08	6.868E-09	4.963E-09	3.794E-09	3.017E-09	2.468E-09	2.063E-09	1.754E-09
SE	8.210E-08	4.114E-08	2.611E-08	1.445E-08	9.482E-09	6.822E-09	5.202E-09	4.127E-09	3.371E-09	2.816E-09	2.393E-09
SSE	1.060E-07	5.398E-08	3.460E-08	1.938E-08	1.280E-08	9.239E-09	7.053E-09	5.597E-09	4.568E-09	3.810E-09	3.232E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.238E-06	1.000E-06	3.111E-07	1.573E-07	9.762E-08	4.301E-08	1.501E-08	7.057E-09	4.265E-09	2.902E-09
SSW	2.558E-06	5.873E-07	1.833E-07	9.294E-08	5.782E-08	2.558E-08	8.982E-09	4.235E-09	2.559E-09	1.739E-09
SW	1.431E-06	3.328E-07	1.039E-07	5.269E-08	3.277E-08	1.448E-08	5.079E-09	2.399E-09	1.455E-09	9.929E-10
WSW	1.196E-06	2.703E-07	7.971E-08	3.908E-08	2.373E-08	1.009E-08	3.345E-09	1.527E-09	9.124E-10	6.184E-10
W	9.789E-07	2.193E-07	6.410E-08	3.127E-08	1.892E-08	8.020E-09	2.648E-09	1.209E-09	7.245E-10	4.933E-10
WNW	2.145E-06	4.852E-07	1.450E-07	7.172E-08	4.383E-08	1.886E-08	6.377E-09	2.953E-09	1.780E-09	1.214E-09
NW	4.088E 06	9.465E-07	3.032E-07	1.560E-07	9.806E-08	4.408E-08	1.589E-08	7.664E-09	4.705E-09	3.240E-09
NNW	4.994E-06	1.180E-06	3.758E-07	1.927E-07	1.208E-07	5.407E-08	1.933E-08	9.253E-09	5.654E-09	3.880E-09
N	6.208E-06	1.487E-06	4.775E-07	2.458E-07	1.544E-07	6.931E-08	2.487E-08	1.193E-08	7.292E-09	5.005E-09
NNE	3.955E-06	9.287E-07	2.988E-07	1.540E-07	9.694E-08	4.367E-08	1.579E-08	7.638E-09	4.701E-09	3.245E-09
NE	1.825E-06	4.315E-07	1.375E-07	7.051E-08	4.420E-08	1.976E-08	7.057E-09	3.377E-09	2.063E-09	1.416E-09
ENE	2.239E-06	5.358E-07	1.722E-07	8.864E-08	5.571E-08	2.501E-08	8.990E-09	4.326E-09	2.655E-09	1.830E-09
E	1.628E-06	3.886E-07	1.227E-07	6.257E-08	3.909E-08	1.740E-08	6.199E-09	2.981E-09	1.837E-09	1.272E-09
ESE	3.230E-06	7.408E-07	2.272E-07	1.141E-07	7.049E-08	3.082E-08	1.066E-08	5.004E-09	3.030E-09	2.069E-09
SE	4.699E-06	1.087E-06	3.291E-07	1.639E-07	1.006E-07	4.356E-08	1.483E-08	6.883E-09	4.146E-09	2.824E-09
SSE	5.621E-06	1.319E-06	4.113E-07	2.082E-07	1.293E-07	5.693E-08	1.984E-08	9.314E-09	5.621E-09	3.821E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	DISTANCE IN MILES 0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.321E-05	7.368E-06	3.921E-06	1.950E-06	7.567E-07	3.982E-07	2.462E-07	1.681E-07	1.228E-07	9.404E-08	7.466E-08
SSW	1.424E-05	4.556E-06	2.343E-06	1.144E-06	4.447E-07	2.345E-07	1.453E-07	9.937E-08	7.267E-08	5.574E-08	4.431E-08
SW	7.902E-06	2.522E-06	1.315E-06	6.475E-07	2.519E-07	1.328E-07	8.226E-08	5.625E-08	4.112E-08	3.153E-08	2.505E-08
WSW	6.162E-06	2.105E-06	1.108E-06	5.384E-07	2.015E-07	1.033E-07	6.262E-08	4.207E-08	3.029E-08	2.292E-08	1.800E-08
W	4.946E-06	1.726E-06	9.024E-07	4.381E-07	1.629E-07	8.315E-08	5.022E-08	3.363E-08	2.415E-08	1.824E-08	1.430E-08
WNW	1.123E-05	3.791E-06	1.973E-06	9.611E-07	3.628E-07	1.872E-07	1.141E-07	7.695E-08	5.561E-08	4.222E-08	3.326E-08
NW	2.370E-05	7.319E-06	3.724E-06	1.821E-06	7.208E-07	3.847E-07	2.405E-07	1.657E-07	1.219E-07	9.399E-08	7.505E-08
NNW	2.799E-05	8.772E-06	4.594E-06	2.275E-06	8.974E-07	4.777E-07	2.980E-07	2.050E-07	1.506E-07	1.159E-07	9.246E-08
N	3.533E-05	1.083E-05	5.723E-06	2.858E-06	1.134E-06	6.060E-07	3.791E-07	2.613E-07	1.922E-07	1.482E-07	1.183E-07
NNE	2.298E-05	7.021E-06	3.616E-06	1.783E-06	7.081E-07	3.786E-07	2.370E-07	1.635E-07	1.204E-07	9.285E-08	7.418E-08
NE	1.022E-05	3.204E-06	1.680E-06	8.323E-07	3.284E-07	1.748E-07	1.091E-07	7.503E-08	5.510E-08	4.242E-08	3.383E-08
ENE	1.273E-05	3.912E-06	2.062E-06	1.029E-06	4.085E-07	2.183E-07	1.365E-07	9.409E-08	6.921E-08	5.335E-08	4.259E-08
E	8.964E-06	2.820E-06	1.505E-06	7.518E-07	2.946E-07	1.560E-07	9.692E-08	6.644E-08	4.866E-08	3.737E-08	2.974E-08
ESE	1.726E-05	5.708E-06	2.971E-06	1.452E-06	5.578E-07	2.916E-07	1.794E-07	1.220E-07	8.882E-08	6.785E-08	5.374E-08
SE	2.456E-05	8.199E-06	4.345E-06	2.141E-06	8.156E-07	4.235E-07	2.592E-07	1.755E-07	1.272E-07	9.684E-08	7.646E-08
SSE	3.113E-05	9.838E-06	5.182E-06	2.569E-06	9.988E-07	5.262E-07	3.256E-07	2.225E-07	1.625E-07	1.245E-07	9.888E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	DISTANCE IN MILES 5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.096E-08	2.970E-08	1.835E-08	9.723E-09	6.161E-09	4.302E-09	3.194E-09	2.475E-09	1.978E-09	1.618E-09	1.349E-09
SSW	3.623E-08	1.774E-08	1.101E-08	5.868E-09	3.734E-09	2.616E-09	1.948E-09	1.512E-09	1.211E-09	9.922E-10	8.284E-10
SW	2.047E-08	9.995E-09	6.187E-09	3.288E-09	2.088E-09	1.460E-09	1.086E-09	8.426E-10	6.742E-10	5.524E-10	4.612E-10
WSW	1.456E-08	6.831E-09	4.111E-09	2.103E-09	1.303E-09	8.947E-10	6.558E-10	5.028E-10	3.984E-10	3.237E-10	2.683E-10
W	1.154E-08	5.387E-09	3.229E-09	1.642E-09	1.013E-09	6.931E-10	5.067E-10	3.877E-10	3.068E-10	2.490E-10	2.062E-10
WNW	2.697E-08	1.281E-08	7.774E-09	4.024E-09	2.512E-09	1.736E-09	1.279E-09	9.845E-10	7.830E-10	6.383E-10	5.305E-10
NW	6.159E-08	3.958E-08	1.915E-08	1.035E-08	6.650E-09	4.694E-09	3.516E-09	2.744E-09	2.207E-09	1.816E-09	1.522E-09
NNW	7.580E-08	3.746E-08	2.338E-08	1.256E-08	8.032E-09	5.648E-09	4.218E-09	3.283E-09	2.635E-09	2.164E-09	1.810E-09
N	9.707E-08	4.812E-08	3.009E-08	1.620E-08	1.038E-08	7.303E-09	5.458E-09	4.251E-09	3.412E-09	2.804E-09	2.346E-09
NNE	6.091E-08	3.028E-08	1.898E-08	1.027E-08	6.599E-09	4.659E-09	3.491E-09	2.725E-09	2.192E-09	1.804E-09	1.513E-09
NE	2.773E-08	1.369E-08	8.542E-09	4.587E-09	2.933E-09	2.062E-09	1.540E-09	1.198E-09	9.616E-10	7.897E-10	6.606E-10
ENE	3.494E-08	1.730E-08	1.081E-08	5.820E-09	3.725E-09	2.621E-09	1.959E-09	1.526E-09	1.225E-09	1.007E-09	8.431E-10
E	2.433E-08	1.193E-08	7.484E-09	3.951E-09	2.518E-09	1.766E-09	1.317E-09	1.024E-09	8.216E-10	6.747E-10	5.645E-10
ESE	4.378E-08	2.114E-08	1.299E-08	6.836E-09	4.318E-09	3.009E-09	2.231E-09	1.727E-09	1.379E-09	1.128E-09	9.406E-10
SE	6.212E-08	2.967E-08	1.808E-08	9.406E-09	5.887E-09	4.074E-09	3.004E-09	2.314E-09	1.841E-09	1.501E-09	1.247E-09
SSE	8.075E-08	3.932E-08	2.429E-08	1.287E-08	8.155E-09	5.695E-09	4.220E-09	3.276E-09	2.618E-09	2.142E-09	1.786E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	3.811E-06	8.626E-07	2.555E-07	1.248E-07	7.533E-08	3.160E-08	1.006E-08	4.355E-09	2.491E-09	1.625E-09
SSW	2.302E-06	5.067E-07	1.507E-07	7.385E-08	4.470E-08	1.886E-08	6.062E-09	2.647E-09	1.522E-09	9.962E-10
SW	1.287E-06	2.869E-07	8.534E-08	4.179E-08	2.527E-08	1.063E-08	3.399E-09	1.478E-09	8.480E-10	5.547E-10
WSW	1.075E-06	2.327E-07	6.525E-08	3.084E-08	1.818E-08	7.339E-09	2.193E-09	9.080E-10	5.067E-10	3.253E-10
W	8.791E-07	1.886E-07	5.237E-08	2.461E-08	1.444E-08	5.796E-09	1.715E-09	7.037E-10	3.909E-10	2.502E-10
WNW	1.927E-06	4.177E-07	1.187E-07	5.661E-08	3.359E-08	1.372E-08	4.185E-09	1.760E-09	9.918E-10	6.412E-10
NW	3.677E-06	8.159E-07	2.490E-07	1.238E-07	7.568E-08	3.239E-08	1.066E-08	4.744E-09	2.760E-09	1.823E-09
NNW	4.492E-06	1.017E-06	3.087E-07	1.529E-07	9.324E-08	3.972E-08	1.295E-08	5.712E-09	3.303E-09	2.172E-09
N	5.584E-06	1.283E-06	3.925E-07	1.952E-07	1.193E-07	5.098E-08	1.670E-08	7.384E-09	4.276E-09	2.815E-09
NNE	3.558E-06	8.006E-07	2.454E-07	1.222E-07	7.480E-08	3.207E-08	1.057E-08	4.709E-09	2.741E-09	1.811E-09
NE	1.642E-06	3.721E-07	1.130E-07	5.597E-08	3.412E-08	1.452E-08	4.731E-09	2.085E-09	1.206E-09	7.928E-10
ENE	2.014E-06	4.618E-07	1.414E-07	7.028E-08	4.294E-08	1.834E-08	5.999E-09	2.651E-09	1.535E-09	1.011E-09
E	1.462E-06	3.346E-07	1.005E-07	4.944E-08	3.000E-08	1.267E-08	4.082E-09	1.787E-09	1.031E-09	6.774E-10
ESE	2.904E-06	6.383E-07	1.864E-07	9.032E-08	5.423E-08	2.255E-08	7.084E-09	3.047E-09	1.739E-09	1.133E-09
SE	4.222E-06	9.359E-07	2.695E-07	1.294E-07	7.718E-08	3.173E-08	9.770E-09	4.129E-09	2.331E-09	1.508E-09
SSE	5.055E-06	1.138E-06	3.378E-07	1.652E-07	9.976E-08	4.185E-08	1.331E-08	5.764E-09	3.297E-09	2.151E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.291E-07	4.365E-08	2.241E-08	1.065E-08	3.827E-09	1.898E-09	1.118E-09	7.317E-10	5.149E-10	3.816E-10	2.941E-10
SSW	6.498E-08	2.195E-08	1.127E-08	5.357E-09	1.924E-09	9.542E-10	5.619E-10	3.679E-10	2.589E-10	1.919E-10	1.478E-10
SW	3.214E-08	1.087E-08	5.580E-09	2.653E-09	9.529E-10	4.726E-10	2.783E-10	1.822E-10	1.282E-10	9.501E-11	7.322E-11
WSW	4.100E-08	1.386E-08	7.118E-09	3.384E-09	1.216E-09	6.028E-10	3.549E-10	2.324E-10	1.635E-10	1.212E-10	9.340E-11
W	4.265E-08	1.442E-08	7.405E-09	3.520E-09	1.265E-09	6.271E-10	3.693E-10	2.418E-10	1.701E-10	1.261E-10	9.716E-11
WNW	7.583E-08	2.564E-08	1.317E-08	6.260E-09	2.248E-09	1.115E-09	6.566E-10	4.299E-10	3.025E-10	2.242E-10	1.728E-10
NW	1.071E-07	3.623E-08	1.860E-08	8.844E-09	3.177E-09	1.575E-09	9.277E-10	6.074E-10	4.274E-10	3.168E-10	2.441E-10
NNW	1.269E-07	4.292E-08	2.204E-08	1.048E-08	3.763E-09	1.866E-09	1.099E-09	7.196E-10	5.063E-10	3.752E-10	2.892E-10
N	1.497E-07	5.061E-08	2.599E-08	1.235E-08	4.438E-09	2.201E-09	1.296E-09	8.485E-10	5.971E-10	4.425E-10	3.410E-10
NNE	1.032E-07	3.490E-08	1.792E-08	8.518E-09	3.060E-09	1.517E-09	8.935E-10	5.850E-10	4.117E-10	3.051E-10	2.351E-10
NE	3.505E-08	1.185E-08	6.085E-09	2.893E-09	1.039E-09	5.153E-10	3.034E-10	1.987E-10	1.398E-10	1.036E-10	7.984E-11
ENE	4.743E-08	1.604E-08	8.234E-09	3.915E-09	1.406E-09	6.973E-10	4.106E-10	2.689E-10	1.892E-10	1.402E-10	1.080E-10
E	4.895E-08	1.655E-08	8.499E-09	4.040E-09	1.451E-09	7.197E-10	4.238E-10	2.775E-10	1.953E-10	1.447E-10	1.115E-10
ESE	1.187E-07	4.023E-08	2.061E-08	9.797E-09	3.519E-09	1.745E-09	1.028E-09	6.728E-10	4.734E-10	3.509E-10	2.704E-10
SE	2.360E-07	7.981E-08	4.098E-08	1.948E-08	6.998E-09	3.470E-09	2.043E-09	1.338E-09	9.415E-10	6.977E-10	5.377E-10
SSE	1.944E-07	6.572E-08	3.375E-08	1.604E-08	5.763E-09	2.858E-09	1.683E-09	1.102E-09	7.753E-10	5.746E-10	4.428E-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	2.336E-10	1.038E-10	6.286E-11	3.177E-11	1.923E-11	1.289E-11	9.239E-12	6.938E-12	5.394E-12	4.309E-12	3.517E-12
SSW	1.175E-10	5.218E-11	3.161E-11	1.598E-11	9.669E-12	6.483E-12	4.645E-12	3.488E-12	2.712E-12	2.167E-12	1.768E-12
SW	5.817E-11	2.584E-11	1.565E-11	7.912E-12	4.789E-12	3.211E-12	2.301E-12	1.729E-12	1.343E-12	1.073E-12	8.757E-13
WSW	7.420E-11	3.296E-11	1.997E-11	1.009E-11	6.108E-12	4.095E-12	2.935E-12	2.204E-12	1.713E-12	1.369E-12	1.117E-12
W	7.719E-11	3.429E-11	2.077E-11	1.050E-11	6.355E-12	4.261E-12	3.053E-12	2.292E-12	1.782E-12	1.424E-12	1.162E-12
WNW	1.373E-10	6.097E-11	3.693E-11	1.867E-11	1.130E-11	7.576E-12	5.428E-12	4.076E-12	3.169E-12	2.532E-12	2.066E-12
NW	1.939E-10	8.615E-11	5.218E-11	2.638E-11	1.596E-11	1.070E-11	7.670E-12	5.759E-12	4.478E-12	3.577E-12	2.920E-12
NNW	2.297E-10	1.021E-10	6.182E-11	3.125E-11	1.891E-11	1.268E-11	9.086E-12	6.823E-12	5.305E-12	4.237E-12	3.459E-12
N	2.709E-10	1.203E-10	7.290E-11	3.685E-11	2.230E-11	1.495E-11	1.071E-11	8.045E-12	6.255E-12	4.997E-12	4.078E-12
NNE	1.868E-10	8.297E-11	5.026E-11	2.540E-11	1.538E-11	1.031E-11	7.387E-12	5.547E-12	4.313E-12	3.445E-12	2.812E-12
NE	6.343E-11	2.818E-11	1.707E-11	8.627E-12	5.222E-12	3.501E-12	2.509E-12	1.884E-12	1.465E-12	1.170E-12	9.550E-13
ENE	8.583E-11	3.813E-11	2.310E-11	1.167E-11	7.066E-12	4.738E-12	3.395E-12	2.549E-12	1.982E-12	1.583E-12	1.292E-12
E	8.859E-11	3.935E-11	2.384E-11	1.205E-11	7.293E-12	4.890E-12	3.504E-12	2.631E-12	2.046E-12	1.634E-12	1.334E-12
ESE	2.148E-10	9.542E-11	5.780E-11	2.922E-11	1.768E-11	1.186E-11	8.496E-12	6.379E-12	4.960E-12	3.962E-12	3.234E-12
SE	4.271E-10	1.898E-10	1.149E-10	5.810E-11	3.516E-11	2.358E-11	1.689E-11	1.269E-11	9.863E-12	7.879E-12	6.431E-12
SSE	3.518E-10	1.563E-10	9.466E-11	4.785E-11	2.896E-11	1.942E-11	1.391E-11	1.045E-11	8.123E-12	6.489E-12	5.296E-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	2.190E-08	4.487E-09	1.171E-09	5.261E-10	2.976E-10	1.144E-10	3.311E-11	1.312E-11	7.007E-12	4.337E-12
SSW	1.101E-08	2.256E-09	5.889E-10	2.645E-10	1.496E-10	5.754E-11	1.665E-11	6.598E-12	3.523E-12	2.181E-12
SW	5.454E-09	1.117E-09	2.917E-10	1.310E-10	7.410E-11	2.850E-11	8.244E-12	3.267E-12	1.745E-12	1.080E-12
WSW	6.957E-09	1.425E-09	3.720E-10	1.671E-10	9.452E-11	3.635E-11	1.052E-11	4.168E-12	2.226E-12	1.378E-12
W	7.238E-09	1.483E-09	3.870E-10	1.738E-10	9.834E-11	3.782E-11	1.094E-11	4.336E-12	2.315E-12	1.433E-12
WNW	1.287E-08	2.636E-09	6.882E-10	3.091E-10	1.749E-10	6.724E-11	1.945E-11	7.710E-12	4.117E-12	2.548E-12
NW	1.818E-08	3.724E-09	9.723E-10	4.367E-10	2.470E-10	9.500E-11	2.748E-11	1.089E-11	5.817E-12	3.600E-12
NNW	2.154E-08	4.412E-09	1.152E-09	5.173E-10	2.927E-10	1.125E-10	3.256E-11	1.290E-11	6.891E-12	4.265E-12
N	2.540E-08	5.203E-09	1.358E-09	6.100E-10	3.451E-10	1.327E-10	3.839E-11	1.522E-11	8.126E-12	5.029E-12
NNE	1.751E-08	3.587E-09	9.365E-10	4.206E-10	2.379E-10	9.150E-11	2.647E-11	1.049E-11	5.603E-12	3.468E-12
NE	5.948E-09	1.218E-09	3.180E-10	1.428E-10	8.080E-11	3.107E-11	8.990E-12	3.563E-12	1.903E-12	1.178E-12
ENE	8.048E-09	1.649E-09	4.304E-10	1.933E-10	1.093E-10	4.205E-11	1.216E-11	4.821E-12	2.575E-12	1.594E-12
E	8.307E-09	1.701E-09	4.442E-10	1.995E-10	1.129E-10	4.340E-11	1.256E-11	4.976E-12	2.657E-12	1.645E-12
ESE	2.014E-08	4.126E-09	1.077E-09	4.837E-10	2.736E-10	1.052E-10	3.044E-11	1.207E-11	6.443E-12	3.988E-12
SE	4.005E-08	8.204E-09	2.142E-09	9.619E-10	5.442E-10	2.093E-10	6.054E-11	2.399E-11	1.281E-11	7.931E-12
SSE	3.298E-08	6.756E-09	1.764E-09	7.921E-10	4.481E-10	1.723E-10	4.985E-11	1.976E-11	1.055E-11	6.531E-12

VENTS GROUND LEVEL RELEASES - JAN-JUN 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	3.797E-06	3.780E-06	3.367E-06	1.906E-08
A	SITE BOUNDARY	SSW	0.82	1327.	2.092E-06	2.081E-06	1.851E-06	8.842E-09
A	SITE BOUNDARY	SW	0.98	1569.	7.855E-07	7.814E-07	6.877E-07	2.831E-09
A	SITE BOUNDARY	WSW	0.93	1489.	7.431E-07	7.406E-07	6.532E-07	4.135E-09
A	SITE BOUNDARY	W	0.91	1468.	6.267E-07	6.252E-07	5.515E-07	4.463E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.283E-06	1.279E-06	1.127E-06	7.389E-09
A	SITE BOUNDARY	NW	0.81	1307.	3.452E-06	3.436E-06	3.058E-06	1.519E-08
A	SITE BOUNDARY	NNW	0.69	1106.	5.889E-06	5.867E-06	5.268E-06	2.552E-08
A	SITE BOUNDARY	N	0.67	1086.	7.516E-06	7.485E-06	6.729E-06	3.103E-08
A	SITE BOUNDARY	NNE	0.60	965.	5.762E-06	5.743E-06	5.196E-06	2.593E-08
A	SITE BOUNDARY	NE	0.62	1005.	2.489E-06	2.480E-06	2.238E-06	8.275E-09
A	SITE BOUNDARY	ENE	0.59	945.	3.338E-06	3.327E-06	3.014E-06	1.233E-08
A	SITE BOUNDARY	E	0.53	845.	2.855E-06	2.849E-06	2.598E-06	1.528E-08
A	SITE BOUNDARY	ESE	0.54	865.	5.587E-06	5.573E-06	5.075E-06	3.567E-08
A	SITE BOUNDARY	SE	0.65	1046.	6.052E-06	6.037E-06	5.432E-06	5.211E-08
A	SITE BOUNDARY	SSE	0.81	1307.	4.829E-06	4.807E-06	4.278E-06	2.756E-08
A	NEAR. RESIDENCE	SSW	1.80	2897.	3.547E-07	3.507E-07	2.956E-07	1.231E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	4.077E-07	4.048E-07	3.495E-07	1.361E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.304E-07	3.288E-07	2.834E-07	1.736E-09
A	NEAR. RESIDENCE	W	1.00	1609.	5.008E-07	4.996E-07	4.381E-07	3.520E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.702E-07	3.689E-07	3.122E-07	1.918E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.680E-06	2.667E-06	2.359E-06	1.162E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	6.433E-07	6.363E-07	5.336E-07	2.112E-09
A	NEAR. RESIDENCE	N	3.00	4828.	3.307E-07	3.245E-07	2.613E-07	8.485E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	2.530E-07	2.491E-07	2.024E-07	7.466E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	3.701E-07	3.666E-07	3.102E-07	1.034E-09
A	NEAR. RESIDENCE	E	1.80	2897.	2.353E-07	2.336E-07	1.963E-07	9.284E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.415E-07	2.387E-07	1.958E-07	1.131E-09
A	NEAR. RESIDENCE	SE	2.20	3541.	4.187E-07	4.150E-07	3.427E-07	2.763E-09
A	NEAREST COW	NNW	3.50	5633.	1.941E-07	1.901E-07	1.506E-07	5.062E-10
A	NEAREST GARDEN	SSW	1.80	2897.	3.547E-07	3.507E-07	2.956E-07	1.231E-09
A	NEAREST GARDEN	SW	2.20	3541.	1.321E-07	1.305E-07	1.080E-07	3.763E-10
A	NEAREST GARDEN	WSW	1.30	2092.	3.304E-07	3.288E-07	2.834E-07	1.736E-09
A	NEAREST GARDEN	WNW	2.30	3702.	1.681E-07	1.667E-07	1.370E-07	7.990E-10
A	NEAREST GARDEN	NW	0.90	1448.	2.680E-06	2.667E-06	2.359E-06	1.162E-08
A	NEAREST GARDEN	N	3.00	4828.	3.307E-07	3.245E-07	2.613E-07	8.485E-10
A	NEAREST GARDEN	ENE	1.70	2736.	3.701E-07	3.666E-07	3.102E-07	1.034E-09
A	NEAREST GARDEN	E	1.80	2897.	2.353E-07	2.336E-07	1.963E-07	9.284E-10
A	NEAREST GARDEN	ESE	2.60	4184.	2.053E-07	2.027E-07	1.650E-07	9.377E-10

Atmospheric Diffusion Estimates

Ground Level Releases

July-September 1996

VENTS GROUND LEVEL RELEASES - JUL-SEP 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.643E-05	9.031E-06	4.799E-06	2.375E-06	9.264E-07	4.921E-07	3.076E-07	2.124E-07	1.568E-07	1.214E-07	9.739E-08
SSW	2.059E-05	7.197E-06	3.859E-06	1.912E-06	7.367E-07	3.877E-07	2.406E-07	1.651E-07	1.212E-07	9.338E-08	7.460E-08
SW	1.424E-05	5.075E-06	2.721E-06	1.347E-06	5.183E-07	2.722E-07	1.685E-07	1.154E-07	8.455E-08	6.503E-08	5.186E-08
WSW	9.456E-06	3.290E-06	1.739E-06	8.550E-07	3.271E-07	1.713E-07	1.059E-07	7.239E-08	5.301E-08	4.075E-08	3.248E-08
W	7.112E-06	2.502E-06	1.317E-06	6.443E-07	2.445E-07	1.273E-07	7.835E-08	5.340E-08	3.898E-08	2.989E-08	2.377E-08
WNW	1.109E-05	3.866E-06	2.025E-06	9.894E-07	3.754E-07	1.954E-07	1.202E-07	8.192E-08	5.980E-08	4.585E-08	3.646E-08
NW	2.285E-05	7.471E-06	3.860E-06	1.894E-06	7.411E-07	3.847E-07	2.474E-07	1.712E-07	1.266E-07	9.823E-08	7.894E-08
NNW	5.053E-05	1.664E-05	8.786E-06	4.378E-06	1.762E-06	9.558E-07	6.070E-07	4.245E-07	3.167E-07	2.474E-07	2.001E-07
N	5.188E-05	1.738E-05	9.498E-06	4.803E-06	1.919E-06	1.035E-06	6.543E-07	4.558E-07	3.389E-07	2.639E-07	2.128E-07
NNE	2.808E-05	9.613E-06	5.232E-06	2.633E-06	1.048E-06	5.635E-07	3.554E-07	2.471E-07	1.834E-07	1.427E-07	1.149E-07
NE	1.948E-05	6.447E-06	3.481E-06	1.751E-06	6.997E-07	3.778E-07	2.391E-07	1.668E-07	1.241E-07	9.677E-08	7.811E-08
ENE	1.343E-05	4.448E-06	2.473E-06	1.265E-06	5.075E-07	2.745E-07	1.738E-07	1.212E-07	9.023E-08	7.034E-08	5.676E-08
E	1.216E-05	3.856E-06	2.112E-06	1.080E-06	4.390E-07	2.394E-07	1.525E-07	1.069E-07	7.986E-08	6.246E-08	5.055E-08
ESE	1.560E-05	5.212E-06	2.886E-06	1.471E-06	5.881E-07	3.173E-07	2.006E-07	1.397E-07	1.038E-07	8.083E-08	6.516E-08
SE	3.738E-05	1.204E-05	6.513E-06	3.306E-06	1.352E-06	7.412E-07	4.742E-07	3.334E-07	2.499E-07	1.959E-07	1.589E-07
SSE	6.314E-05	2.003E-05	1.081E-05	5.452E-06	2.194E-06	1.190E-06	7.552E-07	5.278E-07	3.935E-07	3.073E-07	2.483E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.040E-08	4.105E-08	2.650E-08	1.516E-08	1.028E-08	7.621E-09	5.978E-09	4.873E-09	4.085E-09	3.499E-09	3.047E-09
SSW	6.133E-08	3.080E-08	1.965E-08	1.105E-08	7.409E-09	5.446E-09	4.241E-09	3.436E-09	2.865E-09	2.442E-09	2.118E-09
SW	4.257E-08	2.123E-08	1.347E-08	7.499E-09	4.977E-09	3.629E-09	2.807E-09	2.261E-09	1.876E-09	1.592E-09	1.375E-09
WSW	2.665E-08	1.329E-08	8.436E-09	4.715E-09	3.150E-09	2.309E-09	1.794E-09	1.452E-09	1.209E-09	1.030E-09	8.922E-10
W	1.949E-08	9.703E-09	6.151E-09	3.429E-09	2.284E-09	1.670E-09	1.296E-09	1.046E-09	8.703E-10	7.402E-10	6.408E-10
WNW	2.988E-08	1.486E-08	9.411E-09	5.245E-09	3.497E-09	2.560E-09	1.987E-09	1.606E-09	1.337E-09	1.138E-09	9.854E-10
NW	6.529E-08	3.362E-08	2.185E-08	1.262E-08	8.620E-09	6.430E-09	5.069E-09	4.151E-09	3.494E-09	3.004E-09	2.625E-09
NNW	1.662E-07	8.667E-08	5.678E-08	3.311E-08	2.271E-08	1.699E-08	1.342E-08	1.101E-08	9.275E-09	7.979E-09	6.977E-09
N	1.764E-07	9.115E-08	5.930E-08	3.421E-08	2.326E-08	1.728E-08	1.357E-08	1.107E-08	9.289E-09	7.959E-09	6.934E-09
NNE	9.513E-08	4.892E-08	3.172E-08	1.820E-08	1.233E-08	9.131E-09	7.154E-09	5.825E-09	4.878E-09	4.173E-09	3.631E-09
NE	6.480E-08	3.364E-08	2.197E-08	1.275E-08	8.715E-09	6.502E-09	5.124E-09	4.194E-09	3.527E-09	3.029E-09	2.645E-09
ENE	4.705E-08	2.433E-08	1.583E-08	9.130E-09	6.204E-09	4.606E-09	3.614E-09	2.947E-09	2.471E-09	2.116E-09	1.842E-09
E	4.201E-08	2.193E-08	1.437E-08	8.367E-09	5.724E-09	4.272E-09	3.367E-09	2.756E-09	2.318E-09	1.991E-09	1.738E-09
ESE	5.397E-08	2.782E-08	1.806E-08	1.038E-08	7.035E-09	5.213E-09	4.085E-09	3.326E-09	2.786E-09	2.383E-09	2.074E-09
SE	1.324E-07	6.964E-08	4.587E-08	2.691E-08	1.850E-08	1.386E-08	1.096E-08	8.993E-09	7.582E-09	6.525E-09	5.707E-09
SSE	2.062E-07	1.074E-07	7.023E-08	4.083E-08	2.792E-08	2.083E-08	1.642E-08	1.344E-08	1.130E-08	9.710E-09	8.478E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.662E-06	1.055E-06	3.187E-07	1.592E-07	9.821E-08	4.333E-08	1.551E-08	7.672E-09	4.888E-09	3.505E-09
SSW	3.735E-06	8.427E-07	2.496E-07	1.231E-07	7.525E-08	3.263E-08	1.134E-08	5.487E-09	3.448E-09	2.447E-09
SW	2.634E-06	5.931E-07	1.749E-07	8.593E-08	5.232E-08	2.252E-08	7.705E-09	3.659E-09	2.270E-09	1.596E-09
WSW	1.691E-06	3.752E-07	1.099E-07	5.388E-08	3.277E-08	1.410E-08	4.846E-09	2.327E-09	1.457E-09	1.032E-09
W	1.261E-06	2.813E-07	8.144E-08	3.964E-08	2.400E-08	1.030E-08	3.525E-09	1.684E-09	1.051E-09	7.419E-10
WNW	1.974E-06	4.318E-07	1.249E-07	6.081E-08	3.681E-08	1.578E-08	5.394E-09	2.580E-09	1.612E-09	1.140E-09
NW	3.789E-06	8.433E-07	2.562E-07	1.285E-07	7.960E-08	3.543E-08	1.289E-08	6.469E-09	4.163E-09	3.009E-09
NNW	8.572E-06	1.985E-06	6.270E-07	3.211E-07	2.016E-07	9.106E-08	3.375E-08	1.709E-08	1.104E-08	7.992E-09
N	9.162E-06	2.167E-06	6.764E-07	3.437E-07	2.145E-07	9.594E-08	3.492E-08	1.739E-08	1.111E-08	7.973E-09
NNE	5.050E-06	1.185E-06	3.676E-07	1.861E-07	1.158E-07	5.154E-08	1.860E-08	9.193E-09	5.844E-09	4.181E-09
NE	3.371E-06	7.902E-07	2.472E-07	1.259E-07	7.871E-08	3.538E-08	1.300E-08	6.541E-09	4.206E-09	3.034E-09
ENE	2.375E-06	5.722E-07	1.796E-07	9.151E-08	5.719E-08	2.560E-08	9.319E-09	4.635E-09	2.956E-09	2.120E-09
E	2.041E-06	4.928E-07	1.574E-07	8.095E-08	5.092E-08	2.303E-08	8.527E-09	4.297E-09	2.764E-09	1.994E-09
ESE	2.774E-06	6.638E-07	2.073E-07	1.053E-07	6.566E-08	2.929E-08	1.060E-08	5.248E-09	3.337E-09	2.388E-09
SE	6.315E-06	1.515E-06	4.891E-07	2.532E-07	1.601E-07	7.302E-08	2.739E-08	1.394E-08	9.017E-09	6.535E-09
SSE	1.048E-05	2.472E-06	7.802E-07	3.990E-07	2.502E-07	1.128E-07	4.162E-08	2.096E-08	1.348E-08	9.726E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.640E-05	9.010E-06	4.782E-06	2.364E-06	9.199E-07	4.874E-07	3.039E-07	2.093E-07	1.541E-07	1.191E-07	9.528E-08
SSW	2.057E-05	7.179E-06	3.844E-06	1.902E-06	7.312E-07	3.839E-07	2.376E-07	1.626E-07	1.191E-07	9.153E-08	7.293E-08
SW	1.423E-05	5.062E-06	2.710E-06	1.340E-06	5.143E-07	2.694E-07	1.663E-07	1.136E-07	8.303E-08	6.370E-08	5.066E-08
WSW	9.447E-06	3.283E-06	1.734E-06	8.515E-07	3.251E-07	1.699E-07	1.048E-07	7.150E-08	5.224E-08	4.008E-08	3.188E-08
W	7.107E-06	2.498E-06	1.314E-06	6.426E-07	2.436E-07	1.267E-07	7.783E-08	5.298E-08	3.862E-08	2.957E-08	2.349E-08
WNW	1.109E-05	3.860E-06	2.020E-06	9.863E-07	3.736E-07	1.942E-07	1.193E-07	8.114E-08	5.914E-08	4.527E-08	3.594E-08
NW	2.283E-05	7.458E-06	3.850E-06	1.887E-06	7.371E-07	3.919E-07	2.451E-07	1.693E-07	1.250E-07	9.678E-08	7.762E-08
NNW	5.047E-05	1.660E-05	8.755E-06	4.357E-06	1.749E-06	9.466E-07	5.997E-07	4.183E-07	3.113E-07	2.426E-07	1.957E-07
N	5.182E-05	1.734E-05	9.462E-06	4.779E-06	1.904E-06	1.024E-06	6.459E-07	4.488E-07	3.328E-07	2.585E-07	2.080E-07
NNE	2.804E-05	9.587E-06	5.211E-06	2.619E-06	1.039E-06	5.575E-07	3.507E-07	2.432E-07	1.800E-07	1.397E-07	1.122E-07
NE	1.945E-05	6.431E-06	3.468E-06	1.742E-06	6.943E-07	3.739E-07	2.360E-07	1.642E-07	1.219E-07	9.475E-08	7.628E-08
ENE	1.342E-05	4.436E-06	2.463E-06	1.258E-06	5.034E-07	2.715E-07	1.715E-07	1.193E-07	8.851E-08	6.880E-08	5.536E-08
E	1.214E-05	3.847E-06	2.104E-06	1.075E-06	4.357E-07	2.370E-07	1.506E-07	1.053E-07	7.844E-08	6.119E-08	4.939E-08
ESE	1.558E-05	5.197E-06	2.874E-06	1.462E-06	5.830E-07	3.137E-07	1.977E-07	1.373E-07	1.017E-07	7.899E-08	6.349E-08
SE	3.733E-05	1.200E-05	6.487E-06	3.288E-06	1.341E-06	7.330E-07	4.676E-07	3.279E-07	2.450E-07	1.916E-07	1.550E-07
SSE	6.106E-05	1.998E-05	1.076E-05	5.422E-06	2.176E-06	1.177E-06	7.449E-07	5.191E-07	3.860E-07	3.005E-07	2.422E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	7.847E-08	3.957E-08	2.523E-08	1.408E-08	9.315E-09	6.741E-09	5.160E-09	4.105E-09	3.360E-09	2.809E-09	2.388E-09
SSW	5.981E-08	2.966E-08	1.868E-08	1.025E-08	6.701E-09	4.804E-09	3.649E-09	2.884E-09	2.346E-09	1.951E-09	1.651E-09
SW	4.148E-08	2.042E-08	1.278E-08	6.934E-09	4.483E-09	3.185E-09	2.400E-09	1.883E-09	1.523E-09	1.259E-09	1.060E-09
WSW	2.610E-08	1.288E-08	8.092E-09	4.430E-09	2.900E-09	2.084E-09	1.587E-09	1.259E-09	1.028E-09	8.585E-10	7.296E-10
W	1.923E-08	9.512E-09	5.991E-09	3.297E-09	2.168E-09	1.566E-09	1.199E-09	9.564E-10	7.856E-10	6.599E-10	5.642E-10
WNW	2.941E-08	1.450E-08	9.115E-09	5.000E-09	3.281E-09	2.364E-09	1.807E-09	1.438E-09	1.178E-09	9.874E-10	8.422E-10
NW	6.407E-08	3.267E-08	2.103E-08	1.191E-08	7.973E-09	5.831E-09	4.507E-09	3.619E-09	2.987E-09	2.518E-09	2.158E-09
NNW	1.621E-07	8.350E-08	5.402E-08	3.072E-08	2.054E-08	1.499E-08	1.155E-08	9.233E-09	7.588E-09	6.367E-09	5.431E-09
N	1.719E-07	8.766E-08	5.629E-08	3.164E-08	2.096E-08	1.518E-08	1.162E-08	9.239E-09	7.556E-09	6.312E-09	5.362E-09
NNE	9.260E-08	4.697E-08	3.004E-08	1.678E-08	1.106E-08	7.974E-09	6.081E-09	4.821E-09	3.931E-09	3.274E-09	2.774E-09
NE	6.311E-08	3.233E-08	2.083E-08	1.177E-08	7.836E-09	5.694E-09	4.370E-09	3.484E-09	2.854E-09	2.388E-09	2.032E-09
ENE	4.577E-08	2.334E-08	1.498E-08	8.402E-09	5.554E-09	4.012E-09	3.064E-09	2.432E-09	1.985E-09	1.654E-09	1.403E-09
E	4.095E-08	2.110E-08	1.365E-08	7.746E-09	5.165E-09	3.758E-09	2.889E-09	2.306E-09	1.892E-09	1.585E-09	1.350E-09
ESE	5.244E-08	2.664E-08	1.704E-08	9.518E-09	6.269E-09	4.514E-09	3.438E-09	2.722E-09	2.216E-09	1.844E-09	1.560E-09
SE	1.287E-07	6.677E-08	4.337E-08	2.474E-08	1.654E-08	1.205E-08	9.269E-09	7.399E-09	6.069E-09	5.081E-09	4.324E-09
SSE	2.005E-07	1.030E-07	6.642E-08	3.755E-08	2.497E-08	1.813E-08	1.390E-08	1.107E-08	9.060E-09	7.573E-09	6.436E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.647E-06	1.049E-06	3.150E-07	1.565E-07	9.610E-08	4.184E-08	1.444E-08	6.795E-09	4.122E-09	2.816E-09
SSW	3.722E-06	8.371E-07	2.466E-07	1.210E-07	7.358E-08	3.148E-08	1.054E-08	4.848E-09	2.898E-09	1.957E-09
SW	2.624E-06	5.890E-07	1.727E-07	8.440E-08	5.112E-08	2.171E-08	7.145E-09	3.217E-09	1.893E-09	1.263E-09
WSW	1.686E-06	3.731E-07	1.088E-07	5.311E-08	3.217E-08	1.369E-08	4.564E-09	2.103E-09	1.265E-09	8.610E-10
W	1.279E-06	2.803E-07	8.091E-08	3.928E-08	2.372E-08	1.011E-08	3.394E-09	1.580E-09	9.607E-10	6.617E-10
WNW	1.970E-06	4.300E-07	1.240E-07	6.014E-08	3.629E-08	1.542E-08	5.150E-09	2.386E-09	1.444E-09	9.902E-10
NW	3.779E-06	8.393E-07	2.539E-07	1.269E-07	7.828E-08	3.447E-08	1.219E-08	5.873E-09	3.632E-09	2.524E-09
NNW	8.544E-06	1.972E-06	6.197E-07	3.157E-07	1.972E-07	8.788E-08	3.137E-08	1.509E-08	9.267E-09	6.382E-09
N	9.130E-06	2.152E-06	6.686E-07	3.376E-07	2.096E-07	9.244E-08	3.237E-08	1.530E-08	9.277E-09	6.329E-09
NNE	5.032E-06	1.176E-06	3.628E-07	1.827E-07	1.131E-07	4.959E-08	1.719E-08	8.040E-09	4.842E-09	3.284E-09
NE	3.359E-06	7.846E-07	2.441E-07	1.236E-07	7.688E-08	3.406E-08	1.204E-08	5.736E-09	3.497E-09	2.394E-09
ENE	2.366E-06	5.680E-07	1.773E-07	8.979E-08	5.579E-08	2.461E-08	8.598E-09	4.044E-09	2.442E-09	1.659E-09
E	2.034E-06	4.894E-07	1.555E-07	7.953E-08	4.976E-08	2.220E-08	7.910E-09	3.786E-09	2.315E-09	1.589E-09
ESE	2.763E-06	6.587E-07	2.045E-07	1.032E-07	6.399E-08	2.811E-08	9.747E-09	4.552E-09	2.734E-09	1.849E-09
SE	6.291E-06	1.503E-06	4.825E-07	2.484E-07	1.561E-07	7.014E-08	2.524E-08	1.214E-08	7.427E-09	5.093E-09
SSE	1.044E-05	2.453E-06	7.698E-07	3.915E-07	2.440E-07	1.084E-07	3.838E-08	1.826E-08	1.111E-08	7.593E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.501E-05	8.242E-06	4.272E-06	2.076E-06	7.852E-07	4.064E-07	2.483E-07	1.680E-07	1.217E-07	9.267E-08	7.318E-08
SSW	1.948E-05	6.568E-06	3.435E-06	1.671E-06	6.243E-07	3.202E-07	1.942E-07	1.306E-07	9.410E-08	7.128E-08	5.604E-08
SW	1.348E-05	4.631E-06	2.422E-06	1.178E-06	4.392E-07	2.247E-07	1.360E-07	9.125E-08	6.564E-08	4.963E-08	3.895E-08
WSW	8.947E-06	3.002E-06	1.549E-06	7.476E-07	2.773E-07	1.415E-07	8.549E-08	5.730E-08	4.119E-08	3.113E-08	2.443E-08
W	6.729E-06	2.284E-06	1.173E-06	5.636E-07	2.075E-07	1.053E-07	6.335E-08	4.232E-08	3.034E-08	2.288E-08	1.791E-08
WNW	1.050E-05	3.529E-06	1.804E-06	8.653E-07	3.184E-07	1.615E-07	9.715E-08	6.489E-08	4.651E-08	3.507E-08	2.746E-08
NW	2.162E-05	6.819E-06	3.437E-06	1.656E-06	6.284E-07	3.262E-07	1.998E-07	1.355E-07	9.845E-08	7.509E-08	5.940E-08
NNW	4.781E-05	1.519E-05	7.822E-06	3.827E-06	1.493E-06	7.893E-07	4.900E-07	3.358E-07	2.459E-07	1.889E-07	1.503E-07
N	4.908E-05	1.586E-05	8.455E-06	4.198E-06	1.626E-06	8.546E-07	5.281E-07	3.604E-07	2.631E-07	2.014E-07	1.599E-07
NNE	2.656E-05	8.772E-06	4.657E-06	2.302E-06	8.877E-07	4.652E-07	2.868E-07	1.954E-07	1.424E-07	1.089E-07	8.630E-08
NE	1.843E-05	5.883E-06	3.099E-06	1.530E-06	5.929E-07	3.120E-07	1.930E-07	1.319E-07	9.634E-08	7.384E-08	5.866E-08
ENE	1.271E-05	4.059E-06	2.202E-06	1.105E-06	4.300E-07	2.266E-07	1.403E-07	9.586E-08	7.002E-08	5.366E-08	4.261E-08
E	1.150E-05	3.519E-06	1.880E-06	9.444E-07	3.720E-07	1.977E-07	1.231E-07	8.453E-08	6.200E-08	4.767E-08	3.797E-08
ESE	1.476E-05	4.756E-06	2.569E-06	1.285E-06	4.982E-07	2.619E-07	1.618E-07	1.104E-07	8.054E-08	6.165E-08	4.891E-08
SE	3.537E-05	1.098E-05	5.798E-06	2.889E-06	1.146E-06	6.118E-07	3.826E-07	2.636E-07	1.939E-07	1.495E-07	1.193E-07
SSE	5.784E-05	1.828E-05	9.620E-06	4.765E-06	1.859E-06	9.823E-07	6.094E-07	4.173E-07	3.054E-07	2.344E-07	1.864E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	5.952E-08	2.864E-08	1.756E-08	9.230E-09	5.837E-09	4.072E-09	3.023E-09	2.343E-09	1.873E-09	1.534E-09	1.281E-09
SSW	4.540E-08	2.148E-08	1.301E-08	6.725E-09	4.205E-09	2.908E-09	2.143E-09	1.650E-09	1.312E-09	1.070E-09	8.888E-10
SW	3.150E-08	1.480E-08	8.916E-09	4.561E-09	2.822E-09	1.935E-09	1.416E-09	1.084E-09	8.573E-10	6.953E-10	5.753E-10
WSW	1.975E-08	9.287E-09	5.601E-09	2.880E-09	1.797E-09	1.241E-09	9.140E-10	7.038E-10	5.598E-10	4.565E-10	3.796E-10
W	1.447E-08	6.802E-09	4.102E-09	2.109E-09	1.314E-09	9.075E-10	6.685E-10	5.150E-10	4.100E-10	3.346E-10	2.785E-10
WNW	2.217E-08	1.040E-08	6.266E-09	3.218E-09	2.005E-09	1.385E-09	1.020E-09	7.857E-10	6.253E-10	5.102E-10	4.246E-10
NW	4.841E-08	2.351E-08	1.452E-08	7.720E-09	4.923E-09	3.460E-09	2.585E-09	2.015E-09	1.620E-09	1.333E-09	1.118E-09
NNW	1.230E-07	6.046E-08	3.761E-08	2.016E-08	1.289E-08	9.072E-09	6.781E-09	5.285E-09	4.247E-09	3.493E-09	2.927E-09
N	1.305E-07	6.355E-08	3.925E-08	2.080E-08	1.319E-08	9.214E-09	6.846E-09	5.308E-09	4.245E-09	3.477E-09	2.902E-09
NNE	7.037E-08	3.409E-08	2.098E-08	1.106E-08	6.982E-09	4.862E-09	3.602E-09	2.786E-09	2.224E-09	1.818E-09	1.515E-09
NE	4.794E-08	2.345E-08	1.454E-08	7.749E-09	4.938E-09	3.464E-09	2.583E-09	2.008E-09	1.610E-09	1.321E-09	1.105E-09
ENE	3.480E-08	1.695E-08	1.047E-08	5.545E-09	3.511E-09	2.450E-09	1.818E-09	1.408E-09	1.125E-09	9.203E-10	7.672E-10
E	3.109E-08	1.529E-08	9.514E-09	5.090E-09	3.246E-09	2.279E-09	1.699E-09	1.322E-09	1.060E-09	8.704E-10	7.280E-10
ESE	3.991E-08	1.937E-08	1.194E-08	6.297E-09	3.976E-09	2.768E-09	2.051E-09	1.586E-09	1.265E-09	1.034E-09	8.608E-10
SE	9.789E-08	4.851E-08	3.033E-08	1.634E-08	1.047E-08	7.370E-09	5.510E-09	4.294E-09	3.430E-09	2.836E-09	2.375E-09
SSE	1.525E-07	7.479E-08	4.644E-08	2.479E-08	1.579E-08	1.108E-08	8.258E-09	6.419E-09	5.145E-09	4.222E-09	3.530E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.178E-06	9.038E-07	2.583E-07	1.239E-07	7.389E-08	3.058E-08	9.573E-09	4.123E-09	2.358E-09	1.541E-09
SSW	3.347E-06	7.217E-07	2.023E-07	9.582E-08	5.661E-08	2.303E-08	7.002E-09	2.948E-09	1.662E-09	1.075E-09
SW	2.360E-06	5.080E-07	1.418E-07	6.686E-08	3.936E-08	1.590E-08	4.756E-09	1.964E-09	1.092E-09	6.989E-10
WSW	1.516E-06	3.215E-07	8.915E-08	4.196E-08	2.468E-08	9.974E-09	3.003E-09	1.258E-09	7.090E-10	4.586E-10
W	1.149E-06	2.412E-07	6.612E-08	3.092E-08	1.811E-08	7.306E-09	2.199E-09	9.204E-10	5.189E-10	3.361E-10
WNW	1.770E-06	3.702E-07	1.014E-07	4.741E-08	2.776E-08	1.118E-08	3.356E-09	1.404E-09	7.915E-10	5.126E-10
NW	3.397E-06	7.225E-07	2.078E-07	1.001E-07	5.998E-08	2.505E-08	7.988E-09	3.500E-09	2.027E-09	1.338E-09
NNW	7.683E-06	1.699E-06	5.082E-07	2.499E-07	1.516E-07	6.421E-08	2.081E-08	9.174E-09	5.317E-09	3.507E-09
N	8.208E-06	1.855E-06	5.481E-07	2.674E-07	1.613E-07	6.763E-08	2.152E-08	9.326E-09	5.342E-09	3.491E-09
NNE	4.525E-06	1.014E-06	2.978E-07	1.448E-07	8.709E-08	3.633E-08	1.145E-08	4.923E-09	2.805E-09	1.826E-09
NE	3.920E-06	6.763E-07	2.003E-07	9.792E-08	5.919E-08	2.493E-08	8.008E-09	3.505E-09	2.021E-09	1.327E-09
ENE	2.127E-06	4.897E-07	1.455E-07	7.117E-08	4.299E-08	1.804E-08	5.735E-09	2.480E-09	1.417E-09	9.242E-10
E	1.829E-06	4.217E-07	1.276E-07	6.298E-08	3.829E-08	1.624E-08	5.254E-09	2.305E-09	1.330E-09	8.739E-10
ESE	2.484E-06	5.681E-07	1.679E-07	8.188E-08	4.935E-08	2.063E-08	6.518E-09	2.803E-09	1.596E-09	1.038E-09
SE	5.657E-06	1.296E-06	3.961E-07	1.969E-07	1.203E-07	5.141E-08	1.684E-08	7.452E-09	4.320E-09	2.847E-09
SSE	9.387E-06	2.115E-06	6.320E-07	3.103E-07	1.881E-07	7.946E-08	2.560E-08	1.121E-08	6.459E-09	4.239E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.281E-07	4.331E-08	2.224E-08	1.057E-08	3.798E-09	1.883E-09	1.109E-09	7.262E-10	5.110E-10	3.787E-10	2.918E-10
SSW	8.320E-08	2.814E-08	1.445E-08	6.868E-09	2.467E-09	1.223E-09	7.204E-10	4.717E-10	3.319E-10	2.460E-10	1.896E-10
SW	5.255E-08	1.777E-08	9.124E-09	4.338E-09	1.558E-09	7.727E-10	4.550E-10	2.979E-10	2.096E-10	1.553E-10	1.197E-10
WSW	5.692E-08	1.925E-08	9.882E-09	4.698E-09	1.688E-09	8.369E-10	4.928E-10	3.227E-10	2.270E-10	1.683E-10	1.297E-10
W	5.801E-08	1.962E-08	1.007E-08	4.788E-09	1.720E-09	8.530E-10	5.023E-10	3.289E-10	2.314E-10	1.715E-10	1.322E-10
WNW	9.413E-08	3.183E-08	1.634E-08	7.770E-09	2.791E-09	1.384E-09	8.150E-10	5.336E-10	3.755E-10	2.783E-10	2.144E-10
NW	1.806E-07	6.108E-08	3.136E-08	1.491E-08	5.356E-09	2.656E-09	1.564E-09	1.024E-09	7.205E-10	5.340E-10	4.115E-10
NNW	2.059E-07	6.961E-08	3.574E-08	1.699E-08	6.104E-09	3.027E-09	1.782E-09	1.167E-09	8.212E-10	6.086E-10	4.690E-10
N	1.939E-07	6.557E-08	3.367E-08	1.601E-08	5.750E-09	2.851E-09	1.679E-09	1.099E-09	7.735E-10	5.733E-10	4.418E-10
NNE	1.019E-07	3.445E-08	1.769E-08	8.408E-09	3.020E-09	1.498E-09	8.819E-10	5.775E-10	4.063E-10	3.011E-10	2.321E-10
NE	6.902E-08	2.334E-08	1.198E-08	5.697E-09	2.046E-09	1.015E-09	5.975E-10	3.913E-10	2.753E-10	2.040E-10	1.572E-10
ENE	4.057E-08	1.372E-08	7.044E-09	3.349E-09	1.203E-09	5.965E-10	3.512E-10	2.300E-10	1.618E-10	1.199E-10	9.242E-11
E	3.509E-08	1.186E-08	6.092E-09	2.896E-09	1.040E-09	5.159E-10	3.038E-10	1.989E-10	1.400E-10	1.037E-10	7.993E-11
ESE	4.496E-08	1.520E-08	7.806E-09	3.711E-09	1.333E-09	6.610E-10	3.892E-10	2.549E-10	1.793E-10	1.329E-10	1.024E-10
SE	8.449E-08	2.855E-08	1.466E-08	6.970E-09	2.504E-09	1.242E-09	7.311E-10	4.787E-10	3.368E-10	2.496E-10	1.924E-10
SSE	1.87[illegible]07	6.337E-08	3.254E-08	1.547E-08	5.556E-09	2.756E-09	1.623E-09	1.062E-09	7.476E-10	5.540E-10	4.269E-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	2.318E-10	1.030E-10	6.238E-11	3.153E-11	1.908E-11	1.280E-11	9.169E-12	6.885E-12	5.353E-12	4.276E-12	3.490E-12
SSW	1.506E-10	6.690E-11	4.052E-11	2.048E-11	1.240E-11	8.312E-12	5.956E-12	4.472E-12	3.477E-12	2.778E-12	2.267E-12
SW	9.511E-11	4.225E-11	2.559E-11	1.294E-11	7.829E-12	5.249E-12	3.761E-12	2.824E-12	2.196E-12	1.754E-12	1.432E-12
WSW	1.030E-10	4.576E-11	2.772E-11	1.401E-11	8.480E-12	5.686E-12	4.074E-12	3.059E-12	2.379E-12	1.900E-12	1.551E-12
W	1.050E-10	4.664E-11	2.825E-11	1.428E-11	8.643E-12	5.795E-12	4.153E-12	3.118E-12	2.424E-12	1.937E-12	1.581E-12
WNW	1.704E-10	7.568E-11	4.584E-11	2.317E-11	1.402E-11	9.403E-12	6.738E-12	5.060E-12	3.934E-12	3.142E-12	2.565E-12
NW	3.269E-10	1.452E-10	8.797E-11	4.447E-11	2.691E-11	1.804E-11	1.293E-11	9.709E-12	7.549E-12	6.030E-12	4.922E-12
NNW	3.726E-10	1.655E-10	1.003E-10	5.068E-11	3.067E-11	2.056E-11	1.474E-11	1.106E-11	8.603E-12	6.872E-12	5.609E-12
N	3.510E-10	1.559E-10	9.444E-11	4.774E-11	2.889E-11	1.937E-11	1.388E-11	1.042E-11	8.104E-12	6.474E-12	5.284E-12
NNE	1.844E-10	8.190E-11	4.961E-11	2.508E-11	1.518E-11	1.018E-11	7.292E-12	5.475E-12	4.257E-12	3.401E-12	2.776E-12
NE	1.249E-10	5.549E-11	3.361E-11	1.699E-11	1.028E-11	6.895E-12	4.940E-12	3.710E-12	2.884E-12	2.304E-12	1.881E-12
ENE	7.342E-11	3.262E-11	1.976E-11	9.987E-12	6.045E-12	4.053E-12	2.904E-12	2.181E-12	1.695E-12	1.354E-12	1.105E-12
E	6.350E-11	2.821E-11	1.709E-11	8.637E-12	5.228E-12	3.505E-12	2.512E-12	1.886E-12	1.466E-12	1.171E-12	9.561E-13
ESE	8.137E-11	3.615E-11	2.190E-11	1.107E-11	6.698E-12	4.491E-12	3.218E-12	2.416E-12	1.879E-12	1.501E-12	1.225E-12
SE	1.528E-10	6.789E-11	4.113E-11	2.079E-11	1.258E-11	8.436E-12	6.044E-12	4.539E-12	3.529E-12	2.819E-12	2.301E-12
SSE	3.392E-10	1.507E-10	9.127E-11	4.613E-11	2.792E-11	1.872E-11	1.341E-11	1.007E-11	7.832E-12	6.256E-12	5.106E-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	2.174E-08	4.453E-09	1.162E-09	5.221E-10	2.953E-10	1.136E-10	3.286E-11	1.302E-11	6.954E-12	4.304E-12
SSW	1.412E-08	2.892E-09	7.551E-10	3.391E-10	1.918E-10	7.377E-11	2.134E-11	8.459E-12	4.517E-12	2.796E-12
SW	8.918E-09	1.827E-09	4.769E-10	2.142E-10	1.212E-10	4.659E-11	1.348E-11	5.342E-12	2.853E-12	1.766E-12
WSW	9.659E-09	1.978E-09	5.165E-10	2.320E-10	1.312E-10	5.047E-11	1.460E-11	5.786E-12	3.090E-12	1.913E-12
W	9.845E-09	2.017E-09	5.264E-10	2.364E-10	1.338E-10	5.144E-11	1.488E-11	5.898E-12	3.149E-12	1.949E-12
WNW	1.597E-08	3.272E-09	8.542E-10	3.836E-10	2.170E-10	8.346E-11	2.415E-11	9.570E-12	5.110E-12	3.163E-12
NW	3.065E-08	6.279E-09	1.639E-09	7.362E-10	4.165E-10	1.602E-10	4.633E-11	1.836E-11	9.806E-12	6.070E-12
NNW	3.493E-08	7.156E-09	1.868E-09	8.390E-10	4.746E-10	1.825E-10	5.280E-11	2.093E-11	1.118E-11	6.917E-12
N	3.291E-08	6.741E-09	1.760E-09	7.903E-10	4.471E-10	1.719E-10	4.974E-11	1.971E-11	1.053E-11	6.516E-12
NNE	1.729E-08	3.541E-09	9.244E-10	4.152E-10	2.349E-10	9.032E-11	2.613E-11	1.036E-11	5.530E-12	3.423E-12
NE	1.171E-08	2.399E-09	6.263E-10	2.813E-10	1.591E-10	6.119E-11	1.770E-11	7.017E-12	3.747E-12	2.319E-12
ENE	6.885E-09	1.410E-09	3.682E-10	1.653E-10	9.354E-11	3.597E-11	1.041E-11	4.124E-12	2.202E-12	1.363E-12
E	5.954E-09	1.220E-09	3.184E-10	1.430E-10	8.090E-11	3.111E-11	9.000E-12	3.567E-12	1.905E-12	1.179E-12
ESE	7.630E-09	1.563E-09	4.080E-10	1.832E-10	1.037E-10	3.986E-11	1.153E-11	4.571E-12	2.441E-12	1.511E-12
SE	1.433E-08	2.935E-09	7.663E-10	3.442E-10	1.947E-10	7.487E-11	2.166E-11	8.585E-12	4.584E-12	2.837E-12
SSE	3.180E-08	6.514E-09	1.701E-09	7.638E-10	4.321E-10	1.662E-10	4.807E-11	1.905E-11	1.017E-11	6.297E-12

VENTS GROUND LEVEL RELEASES - JUL-SEP 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	4.113E-06	4.098E-06	3.648E-06	1.891E-08
A	SITE BOUNDARY	SSW	0.82	1327.	3.067E-06	3.054E-06	2.715E-06	1.134E-08
A	SITE BOUNDARY	SW	0.98	1569.	1.432E-06	1.425E-06	1.254E-06	4.629E-09
A	SITE BOUNDARY	WSW	0.93	1489.	1.034E-06	1.030E-06	9.086E-07	5.741E-09
A	SITE BOUNDARY	W	0.91	1468.	8.083E-07	8.064E-07	7.113E-07	6.071E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.159E-06	1.156E-06	1.018E-06	9.171E-09
A	SITE BOUNDARY	NW	0.81	1307.	3.173E-06	3.164E-06	2.812E-06	2.561E-08
A	SITE BOUNDARY	NNW	0.69	1106.	1.007E-05	1.003E-05	9.007E-06	4.139E-08
A	SITE BOUNDARY	N	0.67	1086.	1.111E-05	1.107E-05	9.947E-06	4.021E-08
A	SITE BOUNDARY	NNE	0.60	965.	7.311E-06	7.288E-06	6.594E-06	2.559E-08
A	SITE BOUNDARY	NE	0.62	1005.	4.592E-06	4.577E-06	4.129E-06	1.630E-08
A	SITE BOUNDARY	ENE	0.59	945.	3.501E-06	3.490E-06	3.162E-06	1.055E-08
A	SITE BOUNDARY	E	0.53	845.	3.554E-06	3.545E-06	3.233E-06	1.096E-08
A	SITE BOUNDARY	ESE	0.54	865.	4.649E-06	4.635E-06	4.222E-06	1.351E-08
A	SITE BOUNDARY	SE	0.65	1046.	8.059E-06	8.030E-06	7.231E-06	1.865E-08
A	SITE BOUNDARY	SSE	0.81	1307.	8.960E-06	8.921E-06	7.938E-06	2.657E-08
A	NEAR. RESIDENCE	SSW	1.80	2897.	4.889E-07	4.845E-07	4.077E-07	1.578E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	7.213E-07	7.165E-07	6.184E-07	2.225E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	4.561E-07	4.537E-07	3.912E-07	2.410E-09
A	NEAR. RESIDENCE	W	1.00	1609.	6.443E-07	6.426E-07	5.636E-07	4.788E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.235E-07	3.219E-07	2.729E-07	2.381E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.450E-06	2.442E-06	2.158E-06	1.959E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.064E-06	1.054E-06	8.827E-07	3.425E-09
A	NEAR. RESIDENCE	N	3.00	4828.	4.558E-07	4.488E-07	3.604E-07	1.099E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.045E-07	3.001E-07	2.436E-07	7.369E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	3.872E-07	3.836E-07	3.245E-07	8.845E-10
A	NEAR. RESIDENCE	E	1.80	2897.	2.980E-07	2.953E-07	2.485E-07	6.655E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.178E-07	2.148E-07	1.765E-07	4.283E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	6.111E-07	6.037E-07	4.997E-07	9.886E-10
A	NEAREST COW	NNW	3.50	5633.	3.167E-07	3.113E-07	2.459E-07	8.210E-10
A	NEAREST GARDEN	SSW	1.80	2897.	4.889E-07	4.845E-07	4.077E-07	1.578E-09
A	NEAREST GARDEN	SW	2.20	3541.	2.213E-07	2.188E-07	1.810E-07	6.152E-10
A	NEAREST GARDEN	WSW	1.30	2092.	4.561E-07	4.537E-07	3.912E-07	2.410E-09
A	NEAREST GARDEN	WNW	2.30	3702.	1.438E-07	1.428E-07	1.172E-07	9.917E-10
A	NEAREST GARDEN	NW	0.90	1448.	2.450E-06	2.442E-06	2.158E-06	1.959E-08
A	NEAREST GARDEN	N	3.00	4828.	4.558E-07	4.488E-07	3.604E-07	1.099E-09
A	NEAREST GARDEN	ENE	1.70	2736.	3.872E-07	3.836E-07	3.245E-07	8.845E-10
A	NEAREST GARDEN	E	1.80	2897.	2.980E-07	2.953E-07	2.485E-07	6.655E-10
A	NEAREST GARDEN	ESE	2.60	4184.	1.854E-07	1.826E-07	1.489E-07	3.552E-10

Atmospheric Diffusion Estimates

Ground Level Releases

October-December 1996

VENTS GROUND LEVEL RELEASES - OCT-DEC 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.188E-05	1.130E-05	6.004E-06	2.956E-06	1.127E-06	5.881E-07	3.622E-07	2.469E-07	1.803E-07	1.382E-07	1.099E-07
SSW	1.234E-05	4.192E-06	2.214E-06	1.097E-06	4.350E-07	2.335E-07	1.471E-07	1.022E-07	7.581E-08	5.894E-08	4.746E-08
SW	7.448E-06	2.603E-06	1.380E-06	6.833E-07	2.691E-07	1.438E-07	9.021E-08	6.246E-08	4.621E-08	3.584E-08	2.879E-08
WSW	7.673E-06	2.830E-06	1.526E-06	7.572E-07	2.910E-07	1.525E-07	9.416E-08	6.430E-08	4.699E-08	3.605E-08	2.868E-08
W	9.036E-06	3.173E-06	1.666E-06	8.200E-07	3.183E-07	1.682E-07	1.046E-07	7.192E-08	5.287E-08	4.078E-08	3.260E-08
WNW	5.886E-06	2.096E-06	1.096E-06	5.347E-07	2.009E-07	1.037E-07	6.325E-08	4.277E-08	3.101E-08	2.362E-08	1.867E-08
NW	1.844E-05	6.256E-06	3.287E-06	1.626E-06	6.426E-07	3.440E-07	2.162E-07	1.499E-07	1.110E-07	8.618E-08	6.930E-08
NNW	3.322E-05	1.076E-05	5.689E-06	2.853E-06	1.166E-06	6.387E-07	4.085E-07	2.872E-07	2.152E-07	1.687E-07	1.368E-07
N	3.515E-05	1.110E-05	6.119E-06	3.143E-06	1.288E-06	7.063E-07	4.519E-07	3.178E-07	2.381E-07	1.867E-07	1.514E-07
NNE	1.389E-05	4.586E-06	2.474E-06	1.249E-06	5.052E-07	2.748E-07	1.747E-07	1.223E-07	9.127E-08	7.132E-08	5.768E-08
NE	7.044E-06	2.378E-06	1.299E-06	6.560E-07	2.610E-07	1.404E-07	8.850E-08	6.151E-08	4.565E-08	3.550E-08	2.858E-08
ENE	5.645E-06	1.910E-06	1.041E-06	5.260E-07	2.100E-07	1.131E-07	7.140E-08	4.966E-08	3.687E-08	2.868E-08	2.310E-08
E	9.210E-06	3.245E-06	1.778E-06	8.953E-07	3.528E-07	1.884E-07	1.181E-07	8.172E-08	6.040E-08	4.680E-08	3.756E-08
ESE	1.412E-05	5.007E-06	2.727E-06	1.365E-06	5.321E-07	2.818E-07	1.756E-07	1.208E-07	8.891E-08	6.862E-08	5.489E-08
SE	1.973E-05	7.092E-06	3.783E-06	1.870E-06	7.216E-07	3.796E-07	2.352E-07	1.612E-07	1.181E-07	9.089E-08	7.249E-08
SSE	2.829E-05	9.853E-06	5.287E-06	2.633E-06	1.026E-06	5.434E-07	3.386E-07	2.331E-07	1.715E-07	1.324E-07	1.060E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.993E-08	4.434E-08	2.789E-08	1.537E-08	1.016E-08	7.378E-09	5.691E-09	4.574E-09	3.787E-09	3.208E-09	2.767E-09
SSW	3.927E-08	2.016E-08	1.307E-08	7.516E-09	5.111E-09	3.799E-09	2.985E-09	2.438E-09	2.047E-09	1.755E-09	1.530E-09
SW	2.378E-08	1.214E-08	7.838E-09	4.470E-09	3.013E-09	2.225E-09	1.739E-09	1.413E-09	1.182E-09	1.010E-09	8.776E-10
WSW	2.347E-08	1.152E-08	7.214E-09	3.935E-09	2.565E-09	1.843E-09	1.408E-09	1.122E-09	9.221E-10	7.757E-10	6.647E-10
W	2.682E-08	1.347E-08	8.592E-09	4.822E-09	3.217E-09	2.356E-09	1.830E-09	1.479E-09	1.231E-09	1.048E-09	9.077E-10
WNW	1.521E-08	7.345E-09	4.551E-09	2.453E-09	1.597E-09	1.147E-09	8.763E-10	6.985E-10	5.743E-10	4.835E-10	4.147E-10
NW	5.727E-08	2.930E-08	1.893E-08	1.084E-08	7.343E-09	5.442E-09	4.268E-09	3.478E-09	2.916E-09	2.497E-09	2.175E-09
NNW	1.140E-07	5.992E-08	3.947E-08	2.316E-08	1.594E-08	1.195E-08	9.456E-09	7.766E-09	6.552E-09	5.642E-09	4.938E-09
N	1.261E-07	6.623E-08	4.358E-08	2.551E-08	1.751E-08	1.310E-08	1.035E-08	8.485E-09	7.147E-09	6.146E-09	5.371E-09
NNE	4.790E-08	2.493E-08	1.630E-08	9.468E-09	6.466E-09	4.820E-09	3.796E-09	3.105E-09	2.610E-09	2.241E-09	1.956E-09
NE	2.365E-08	1.213E-08	7.853E-09	4.501E-09	3.050E-09	2.260E-09	1.771E-09	1.442E-09	1.208E-09	1.034E-09	8.996E-10
ENE	1.911E-08	9.807E-09	6.348E-09	3.632E-09	2.454E-09	1.814E-09	1.418E-09	1.153E-09	9.647E-10	8.245E-10	7.167E-10
E	3.099E-08	1.572E-08	1.009E-08	5.709E-09	3.824E-09	2.808E-09	2.184E-09	1.767E-09	1.472E-09	1.253E-09	1.086E-09
ESE	4.514E-08	2.262E-08	1.440E-08	8.048E-09	5.353E-09	3.909E-09	3.027E-09	2.440E-09	2.026E-09	1.720E-09	1.486E-09
SE	5.947E-08	2.953E-08	1.867E-08	1.034E-08	6.843E-09	4.976E-09	3.841E-09	3.089E-09	2.559E-09	2.169E-09	1.871E-09
SSE	8.718E-08	4.383E-08	2.796E-08	1.570E-08	1.048E-08	7.672E-09	5.957E-09	4.814E-09	4.005E-09	3.407E-09	2.950E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	5.827E-06	1.294E-06	3.763E-07	1.833E-07	1.109E-07	4.716E-08	1.584E-08	7.444E-09	4.593E-09	3.217E-09
SSW	2.157E-06	4.927E-07	1.522E-07	7.692E-08	4.782E-08	2.126E-08	7.682E-09	3.823E-09	2.445E-09	1.758E-09
SW	1.342E-06	3.054E-07	9.340E-08	4.690E-08	2.902E-08	1.282E-08	4.571E-09	2.240E-09	1.418E-09	1.012E-09
WSW	1.474E-06	3.330E-07	9.777E-08	4.777E-08	2.893E-08	1.226E-08	4.055E-09	1.862E-09	1.128E-09	7.779E-10
W	1.625E-06	3.631E-07	1.085E-07	5.371E-08	3.288E-08	1.427E-08	4.946E-09	2.375E-09	1.485E-09	1.050E-09
WNW	1.069E-06	2.319E-07	6.583E-08	3.155E-08	1.885E-08	7.850E-09	2.539E-09	1.159E-09	7.020E-10	4.849E-10
NW	3.209E-06	7.285E-07	2.238E-07	1.127E-07	6.985E-08	3.091E-08	1.108E-08	5.479E-09	3.490E-09	2.502E-09
NNW	5.555E-06	1.306E-06	4.214E-07	2.181E-07	1.378E-07	6.284E-08	2.358E-08	1.202E-08	7.786E-09	5.651E-09
N	5.903E-06	1.442E-06	4.661E-07	2.413E-07	1.525E-07	6.946E-08	2.597E-08	1.318E-08	8.509E-09	6.156E-09
NNE	2.399E-06	5.681E-07	1.804E-07	9.253E-08	5.810E-08	2.620E-08	9.653E-09	4.850E-09	3.114E-09	2.245E-09
NE	1.253E-06	2.952E-07	9.153E-08	4.631E-08	2.680E-08	1.279E-08	4.601E-09	2.275E-09	1.447E-09	1.036E-09
ENE	1.005E-06	2.372E-07	7.383E-08	3.741E-08	2.328E-08	1.034E-08	3.712E-09	1.826E-09	1.157E-09	8.261E-10
E	1.712E-06	4.003E-07	1.223E-07	6.131E-08	3.787E-08	1.661E-08	5.846E-09	2.829E-09	1.774E-09	1.256E-09
ESE	2.628E-06	6.060E-07	1.820E-07	9.030E-08	5.535E-08	2.397E-08	8.261E-09	3.941E-09	2.450E-09	1.724E-09
SE	3.668E-06	8.248E-07	2.441E-07	1.201E-07	7.312E-08	3.135E-08	1.064E-08	5.020E-09	3.102E-09	2.174E-09
SSE	5.122E-06	1.169E-06	3.510E-07	1.742E-07	1.068E-07	4.641E-08	1.610E-08	7.734E-09	4.832E-09	3.415E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.185E-05	1.128E-05	5.987E-06	2.945E-06	1.121E-06	5.836E-07	3.587E-07	2.441E-07	1.778E-07	1.360E-07	1.080E-07
SSW	1.232E-05	4.181E-06	2.205E-06	1.091E-06	4.315E-97	2.309E-07	1.450E-07	1.005E-07	7.430E-08	5.760E-08	4.624E-08
SW	7.438E-06	2.596E-06	1.374E-06	6.797E-07	2.669E-07	1.422E-07	8.898E-08	6.144E-08	4.532E-08	3.505E-08	2.807E-08
WSW	7.666E-06	2.825E-06	1.522E-06	7.546E-07	2.895E-07	1.514E-07	9.333E-08	6.362E-08	4.641E-08	3.554E-08	2.822E-08
W	9.028E-06	3.167E-06	1.662E-06	8.171E-07	3.165E-07	1.670E-07	1.036E-07	7.110E-08	5.216E-08	4.015E-08	3.203E-08
WNW	5.882E-06	2.093E-06	1.094E-06	5.333E-07	2.001E-07	1.031E-07	6.283E-08	4.244E-08	3.072E-08	2.337E-08	1.845E-08
NW	1.842E-05	6.243E-06	3.277E-06	1.620E-06	6.385E-07	3.411E-07	2.139E-07	1.479E-07	1.093E-07	8.463E-08	6.788E-08
NNW	3.317E-05	1.073E-05	5.667E-06	2.838E-06	1.157E-06	6.319E-07	4.030E-07	2.825E-07	2.110E-07	1.650E-07	1.334E-07
N	3.511E-05	1.107E-05	6.098E-06	3.129E-06	1.279E-06	6.998E-07	4.466E-07	3.133E-07	2.342E-07	1.832E-07	1.482E-07
NNE	1.388E-05	4.574E-06	2.465E-06	1.243E-06	5.014E-07	2.720E-07	1.725E-07	1.204E-07	8.965E-08	6.987E-08	5.635E-08
NE	7.036E-06	2.373E-06	1.295E-06	6.532E-07	2.593E-07	1.392E-07	8.756E-08	6.073E-08	4.497E-08	3.489E-08	2.804E-08
ENE	5.641E-06	1.907E-06	1.039E-06	5.245E-07	2.091E-07	1.125E-07	7.090E-08	4.924E-08	3.650E-08	2.835E-08	2.280E-08
E	9.203E-06	3.240E-06	1.774E-06	8.926E-07	3.512E-07	1.873E-07	1.172E-07	8.097E-08	5.975E-08	4.622E-08	3.704E-08
ESE	1.411E-05	5.000E-06	2.721E-06	1.361E-06	5.298E-07	2.802E-07	1.743E-07	1.198E-07	8.799E-08	6.780E-08	5.415E-08
SE	1.972E-05	7.083E-06	3.776E-06	1.865E-06	7.187E-07	3.776E-07	2.336E-07	1.598E-07	1.170E-07	8.986E-08	7.156E-08
SSE	2.827E-05	9.837E-06	5.274E-06	2.624E-06	1.020E-06	5.396E-07	3.356E-07	2.306E-07	1.694E-07	1.305E-07	1.042E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.819E-08	4.305E-08	2.681E-08	1.448E-08	9.377E-09	6.677E-09	5.048E-09	3.977E-09	3.228E-09	2.681E-09	2.267E-09
SSW	3.814E-08	1.929E-08	1.232E-08	6.869E-09	4.531E-09	3.267E-09	2.492E-09	1.975E-09	1.610E-09	1.340E-09	1.135E-09
SW	2.312E-08	1.164E-08	7.400E-09	4.098E-09	2.682E-09	1.923E-09	1.460E-09	1.153E-09	9.365E-10	7.777E-10	6.571E-10
WSW	2.305E-08	1.121E-08	6.956E-09	3.723E-09	2.382E-09	1.680E-09	1.259E-09	9.843E-10	7.935E-10	6.549E-10	5.506E-10
W	2.629E-08	1.306E-08	8.238E-09	4.520E-09	2.947E-09	2.110E-09	1.601E-09	1.265E-09	1.030E-09	8.569E-10	7.258E-10
WNW	1.501E-08	7.204E-09	4.435E-09	2.361E-09	1.517E-09	1.076E-09	8.116E-10	6.388E-10	5.187E-10	4.312E-10	3.653E-10
NW	5.597E-08	2.827E-08	1.804E-08	1.006E-08	6.645E-09	4.801E-09	3.670E-09	2.917E-09	2.385E-09	1.993E-09	1.694E-09
NNW	1.108E-07	5.741E-08	3.726E-08	2.123E-08	1.419E-08	1.033E-08	7.948E-09	6.345E-09	5.207E-09	4.362E-09	3.716E-09
N	1.231E-07	6.387E-08	4.151E-08	2.372E-08	1.589E-08	1.160E-08	8.945E-09	7.159E-09	5.888E-09	4.944E-09	4.220E-09
NNE	4.668E-08	2.397E-08	1.547E-08	8.747E-09	5.817E-09	4.224E-09	3.241E-09	2.583E-09	2.117E-09	1.772E-09	1.508E-09
NE	2.315E-08	1.175E-08	7.523E-09	4.220E-09	2.800E-09	2.031E-09	1.558E-09	1.242E-09	1.019E-09	8.535E-10	7.273E-10
ENE	1.884E-08	9.598E-09	6.168E-09	3.479E-09	2.317E-09	1.688E-09	1.302E-09	1.044E-09	8.608E-10	7.255E-10	6.219E-10
E	3.051E-08	1.536E-08	9.786E-09	5.450E-09	3.595E-09	2.599E-09	1.991E-09	1.587E-09	1.302E-09	1.092E-09	9.320E-10
ESE	4.447E-08	2.211E-08	1.396E-08	7.681E-09	5.028E-09	3.613E-09	2.753E-09	2.184E-09	1.784E-09	1.491E-09	1.268E-09
SE	5.862E-08	2.888E-08	1.811E-08	9.878E-09	6.431E-09	4.603E-09	3.497E-09	2.767E-09	2.257E-09	1.883E-09	1.599E-09
SSE	8.558E-08	4.260E-08	2.691E-08	1.480E-08	9.683E-09	6.950E-09	5.288E-09	4.188E-09	3.415E-09	2.848E-09	2.417E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	5.812E-06	1.287E-06	3.728E-97	1.808E-07	1.090E-07	4.586E-08	1.495E-08	6.746E-09	3.998E-09	2.690E-09
SSW	2.149E-06	4.890E-07	1.501E-07	7.541E-08	4.660E-08	2.038E-08	7.040E-09	3.294E-09	1.983E-09	1.344E-09
SW	1.337E-06	3.032E-07	9.216E-08	4.601E-08	2.831E-08	1.231E-08	4.203E-09	1.940E-09	1.158E-09	7.801E-10
WSW	1.471E-06	3.315E-07	9.693E-08	4.719E-08	2.847E-08	1.195E-08	3.846E-09	1.699E-09	9.901E-10	6.574E-10
W	1.621E-06	3.613E-07	1.075E-07	5.300E-08	3.231E-08	1.386E-08	4.647E-09	2.130E-09	1.271E-09	8.595E-10
WNW	1.067E-06	2.311E-07	6.542E-08	3.127E-08	1.864E-08	7.708E-09	2.447E-09	1.088E-09	6.424E-10	4.327E-10
NW	3.200E-06	7.244E-07	2.214E-07	1.109E-07	6.843E-08	2.988E-08	1.032E-08	4.840E-09	2.929E-09	1.998E-09
NNW	5.534E-06	1.297E-06	4.158E-07	2.139E-07	1.344E-07	6.032E-08	2.166E-08	1.041E-08	6.369E-09	4.373E-09
N	5.884E-06	1.433E-06	4.608E-07	2.374E-07	1.493E-07	6.709E-08	2.419E-08	1.168E-08	7.185E-09	4.956E-09
NNE	2.391E-06	5.642E-07	1.782E-07	9.091E-08	5.677E-08	2.524E-08	8.938E-09	4.255E-09	2.594E-09	1.777E-09
NE	1.249E-06	2.935E-07	9.059E-08	4.563E-08	2.826E-08	1.240E-08	4.323E-09	2.047E-09	1.247E-09	8.557E-10
ENE	1.003E-06	2.362E-07	7.332E-08	3.704E-08	2.298E-08	1.013E-08	3.560E-09	1.701E-09	1.048E-09	7.272E-10
E	1.708E-06	3.987E-07	1.214E-07	6.066E-08	3.735E-08	1.625E-08	5.589E-09	2.621E-09	1.594E-09	1.095E-09
ESE	2.623E-06	6.037E-07	1.807E-07	8.938E-08	5.461E-08	2.346E-08	7.897E-09	3.646E-09	2.194E-09	1.495E-09
SE	3.662E-06	8.218E-07	2.425E-07	1.189E-07	7.219E-08	3.070E-08	1.018E-08	4.648E-09	2.781E-09	1.888E-09
SSE	5.110E-06	1.163E-06	3.480E-07	1.720E-07	1.051E-07	4.518E-08	1.522E-08	7.014E-09	4.208E-09	2.856E-09

VEMTS GROUND LEVEL RELEASES - OCT-DEC 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.016E-05	1.032E-05	5.346E-06	2.585E-06	9.558E-07	4.860E-07	2.926E-07	1.955E-07	1.401E-07	1.056E-07	8.266E-08
SSW	1.167E-05	3.825E-06	1.971E-06	9.591E-07	3.686E-07	1.928E-07	1.187E-07	8.078E-08	5.882E-08	4.495E-08	3.562E-08
SW	7.046E-06	2.375E-06	1.228E-06	5.972E-07	2.280E-07	1.187E-07	7.279E-08	4.938E-08	3.586E-08	2.734E-08	2.161E-08
WSW	7.260E-06	2.583E-06	1.359E-06	6.622E-07	2.468E-07	1.260E-07	7.608E-08	5.092E-08	3.654E-08	2.756E-08	2.159E-08
W	8.550E-06	2.896E-06	1.484E-06	7.171E-07	2.699E-07	1.390E-07	8.453E-08	5.694E-08	4.110E-08	3.117E-08	2.453E-08
WNW	5.569E-06	1.913E-06	9.764E-07	4.677E-07	1.705E-07	8.571E-08	5.114E-08	3.390E-08	2.413E-08	1.808E-08	1.407E-08
NW	1.745E-05	5.710E-06	2.927E-06	1.422E-06	5.447E-07	2.842E-07	1.746E-07	1.186E-07	8.624E-08	6.581E-08	5.209E-08
NNW	3.142E-05	9.817E-06	5.064E-06	2.494E-06	9.879E-07	5.273E-07	3.296E-07	2.271E-07	1.670E-07	1.287E-07	1.027E-07
N	3.325E-05	1.013E-05	5.448E-06	2.748E-06	1.092E-06	5.833E-07	3.649E-07	2.514E-07	1.849E-07	1.425E-07	1.138E-07
NNE	1.314E-05	4.185E-06	2.202E-06	1.092E-06	4.281E-07	2.269E-07	1.410E-07	9.671E-08	7.085E-08	5.443E-08	4.332E-08
NE	6.664E-06	2.170E-06	1.156E-06	5.735E-07	2.213E-07	1.159E-07	7.147E-08	4.868E-08	3.547E-08	2.712E-08	2.149E-08
ENE	5.341E-06	1.744E-06	9.269E-07	4.601E-07	1.781E-07	9.352E-08	5.772E-08	3.935E-08	2.869E-08	2.194E-08	1.740E-08
E	8.714E-06	2.962E-06	1.584E-06	7.831E-07	2.993E-07	1.557E-07	9.548E-08	6.474E-08	4.699E-08	3.580E-08	2.829E-08
ESE	1.336E-05	4.571E-06	2.428E-06	1.194E-06	4.513E-07	2.330E-07	1.419E-07	9.574E-08	6.917E-08	5.250E-08	4.134E-08
SE	1.867E-05	6.474E-06	3.370E-06	1.636E-06	6.121E-07	3.138E-07	1.902E-07	1.277E-07	9.193E-08	6.954E-08	5.461E-08
SSE	2.677E-05	8.994E-06	4.708E-06	2.303E-06	8.699E-07	4.491E-07	2.736E-07	1.846E-07	1.334E-07	1.012E-07	7.973E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.667E-08	3.100E-08	1.853E-08	9.398E-09	5.798E-09	3.968E-09	2.901E-09	2.219E-09	1.755E-09	1.423E-09	1.178E-09
SSW	2.903E-08	1.404E-08	8.633E-09	4.554E-09	2.883E-09	2.012E-09	1.493E-09	1.157E-09	9.245E-10	7.566E-10	6.309E-10
SW	1.759E-08	8.458E-09	5.180E-09	2.711E-09	1.702E-09	1.180E-09	8.714E-10	6.721E-10	5.351E-10	4.365E-10	3.629E-10
WSW	1.740E-08	8.057E-09	4.797E-09	2.409E-09	1.467E-09	9.934E-10	7.194E-10	5.458E-10	4.284E-10	3.451E-10	2.838E-10
W	1.988E-08	9.413E-09	5.703E-09	2.943E-09	1.831E-09	1.262E-09	9.276E-10	7.127E-10	5.658E-10	4.604E-10	3.821E-10
WNW	1.129E-08	5.150E-09	3.035E-09	1.509E-09	9.193E-10	6.232E-10	4.522E-10	3.438E-10	2.705E-10	2.185E-10	1.802E-10
NW	4.241E-08	2.044E-08	1.254E-08	6.596E-09	4.165E-09	2.902E-09	2.152E-09	1.666E-09	1.331E-09	1.089E-09	9.081E-10
NNW	8.427E-08	4.173E-08	2.608E-08	1.405E-08	8.997E-09	6.335E-09	4.737E-09	3.691E-09	2.965E-09	2.438E-09	2.041E-09
N	9.334E-08	4.621E-08	2.887E-08	1.554E-08	9.946E-09	7.001E-09	5.233E-09	4.078E-09	3.275E-09	2.693E-09	2.255E-09
NNE	3.545E-08	1.738E-08	1.079E-08	5.755E-09	3.662E-09	2.567E-09	1.912E-09	1.485E-09	1.190E-09	9.760E-10	8.156E-10
NE	1.752E-08	8.475E-09	5.212E-09	2.748E-09	1.739E-09	1.213E-09	9.006E-10	6.979E-10	5.581E-10	4.571E-10	3.815E-10
ENE	1.419E-08	6.872E-09	4.230E-09	2.231E-09	1.410E-09	9.832E-10	7.300E-10	5.659E-10	4.528E-10	3.711E-10	3.101E-10
E	2.300E-08	1.101E-08	6.722E-09	3.504E-09	2.194E-09	1.520E-09	1.122E-09	8.652E-10	6.891E-10	5.626E-10	4.682E-10
ESE	3.351E-08	1.585E-08	9.588E-09	4.939E-09	3.071E-09	2.115E-09	1.554E-09	1.193E-09	9.472E-10	7.707E-10	6.397E-10
SE	4.415E-08	2.068E-08	1.243E-08	6.347E-09	3.925E-09	2.692E-09	1.971E-09	1.510E-09	1.195E-09	9.706E-10	8.041E-10
SSE	6.465E-08	3.065E-08	1.858E-08	9.598E-09	5.982E-09	4.126E-09	3.035E-09	2.334E-09	1.854E-09	1.510E-09	1.254E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	5.224E-06	1.109E-06	3.053E-07	1.428E-07	8.353E-08	3.338E-08	9.827E-09	4.029E-09	2.237E-09	1.431E-09
SSW	1.933E-06	4.217E-07	1.233E-07	5.981E-08	3.594E-08	1.497E-08	4.718E-09	2.037E-09	1.165E-09	7.596E-10
SW	1.203E-06	2.615E-07	7.567E-08	3.648E-08	2.182E-08	9.030E-09	2.811E-09	1.196E-09	6.768E-10	4.384E-10
WSW	1.321E-06	2.854E-07	7.933E-08	3.723E-08	2.181E-08	8.685E-09	2.521E-09	1.010E-09	5.507E-10	3.471E-10
W	1.457E-06	3.111E-07	8.801E-08	4.184E-08	2.477E-08	1.009E-08	3.062E-09	1.280E-09	7.181E-10	4.626E-10
WNW	9.585E-07	1.988E-07	5.346E-08	2.462E-08	1.423E-08	5.575E-09	1.586E-09	6.338E-10	3.469E-10	2.197E-10
NW	2.876E-06	6.239E-07	1.814E-07	8.771E-08	5.257E-08	2.181E-08	6.838E-09	2.939E-09	1.677E-09	1.094E-09
NNW	4.978E-06	1.118E-06	3.413E-07	1.696E-07	1.036E-07	4.423E-08	1.448E-08	6.406E-09	3.713E-09	2.447E-09
N	5.288E-06	1.234E-06	3.777E-07	1.878E-07	1.147E-07	4.898E-08	1.602E-08	7.079E-09	4.102E-09	2.703E-09
NNE	2.149E-06	4.862E-07	1.462E-07	7.199E-08	4.370E-08	1.847E-08	5.944E-09	2.597E-09	1.494E-09	9.799E-10
NE	1.123E-06	2.527E-07	7.422E-08	3.606E-08	2.169E-08	9.035E-09	2.847E-09	1.228E-09	7.026E-10	4.590E-10
ENE	9.009E-07	2.032E-07	5.992E-08	2.917E-08	1.756E-08	7.324E-09	2.310E-09	9.957E-10	5.697E-10	3.727E-10
E	1.534E-06	3.430E-07	9.926E-08	4.780E-08	2.856E-08	1.177E-08	3.637E-09	1.541E-09	8.714E-10	5.651E-10
ESE	2.356E-06	5.194E-07	1.477E-07	7.041E-08	4.174E-08	1.699E-08	5.142E-09	2.145E-09	1.203E-09	7.745E-10
SE	3.289E-06	7.070E-07	1.982E-07	9.363E-08	5.516E-08	2.223E-08	6.623E-09	2.732E-09	1.522E-09	9.755E-10
SSE	4.592E-06	1.001E-06	2.848E-07	1.358E-07	8.052E-08	3.284E-08	9.987E-09	4.185E-09	2.352E-09	1.517E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.931E-07	6.530E-08	3.353E-08	1.594E-08	5.725E-09	2.839E-09	1.672E-09	1.095E-09	7.703E-10	5.708E-10	4.399E-10
SSW	4.125E-08	1.395E-08	7.161E-09	3.405E-09	1.223E-09	6.065E-10	3.571E-10	2.338E-10	1.645E-10	1.219E-10	9.397E-11
SW	2.537E-08	8.580E-09	4.405E-09	2.094E-09	7.523E-10	3.731E-10	2.197E-10	1.438E-10	1.012E-10	7.501E-11	5.780E-11
WSW	4.221E-08	1.427E-08	7.328E-09	3.484E-09	1.251E-09	6.206E-10	3.654E-10	2.393E-10	1.684E-10	1.248E-10	9.615E-11
W	6.019E-08	2.035E-08	1.045E-08	4.968E-09	1.785E-09	8.850E-10	5.211E-10	3.412E-10	2.401E-10	1.779E-10	1.371E-10
WNW	5.170E-08	1.748E-08	8.977E-09	4.268E-09	1.533E-09	7.602E-10	4.476E-10	2.931E-10	2.062E-10	1.528E-10	1.178E-10
NW	1.025E-07	3.466E-08	1.780E-08	8.460E-09	3.039E-09	1.507E-09	8.874E-10	5.811E-10	4.089E-10	3.030E-10	2.335E-10
NNW	1.238E-07	4.188E-08	2.150E-08	1.022E-08	3.672E-09	1.821E-09	1.072E-09	7.020E-10	4.940E-10	3.661E-10	2.821E-10
N	1.268E-07	4.286E-08	2.201E-08	1.046E-08	3.758E-09	1.864E-09	1.098E-09	7.186E-10	5.057E-10	3.747E-10	2.888E-10
NNE	5.074E-08	1.716E-08	8.810E-09	4.189E-09	1.505E-09	7.461E-10	4.393E-10	2.877E-10	2.024E-10	1.500E-10	1.156E-10
NE	2.638E-08	8.920E-09	4.580E-09	2.177E-09	7.821E-10	3.879E-10	2.284E-10	1.495E-10	1.052E-10	7.798E-11	6.010E-11
ENE	2.954E-08	9.991E-09	5.130E-09	2.439E-09	8.760E-10	4.344E-10	2.558E-10	1.675E-10	1.179E-10	8.734E-11	6.731E-11
E	5.909E-08	1.998E-08	1.026E-08	4.877E-09	1.752E-09	8.688E-10	5.116E-10	3.350E-10	2.357E-10	1.747E-10	1.346E-10
ESE	1.224E-07	4.139E-08	2.125E-08	1.010E-08	3.629E-09	1.800E-09	1.060E-09	6.939E-10	4.883E-10	3.618E-10	2.788E-10
SE	2.005E-07	6.781E-08	3.482E-08	1.655E-08	5.946E-09	2.949E-09	1.736E-09	1.137E-09	7.999E-10	5.928E-10	4.568E-10
SSE	2.100E-07	7.102E-08	3.647E-08	1.734E-08	6.227E-09	3.088E-09	1.818E-09	1.191E-09	8.378E-10	6.209E-10	4.785E-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	3.495E-10	1.552E-10	9.404E-11	4.753E-11	2.877E-11	1.929E-11	1.382E-11	1.038E-11	8.070E-12	6.446E-12	5.262E-12
SSW	7.465E-11	3.316E-11	2.009E-11	1.015E-11	6.146E-12	4.120E-12	2.953E-12	2.217E-12	1.724E-12	1.377E-12	1.124E-12
SW	4.592E-11	2.040E-11	1.236E-11	6.246E-12	3.780E-12	2.535E-12	1.816E-12	1.364E-12	1.060E-12	8.470E-13	6.913E-13
WSW	7.639E-11	3.393E-11	2.056E-11	1.039E-11	6.288E-12	4.216E-12	3.021E-12	2.269E-12	1.764E-12	1.409E-12	1.150E-12
W	1.089E-10	4.839E-11	2.932E-11	1.482E-11	8.968E-12	6.013E-12	4.309E-12	3.235E-12	2.516E-12	2.009E-12	1.640E-12
WNW	9.357E-11	4.157E-11	2.518E-11	1.273E-11	7.703E-12	5.165E-12	3.701E-12	2.779E-12	2.161E-12	1.726E-12	1.409E-12
NW	1.855E-10	8.241E-11	4.992E-11	2.523E-11	1.527E-11	1.024E-11	7.337E-12	5.509E-12	4.283E-12	3.422E-12	2.793E-12
NNW	2.241E-10	9.957E-11	6.031E-11	3.048E-11	1.845E-11	1.237E-11	8.864E-12	6.656E-12	5.175E-12	4.134E-12	3.374E-12
N	2.294E-10	1.019E-10	6.174E-11	3.120E-11	1.889E-11	1.266E-11	9.074E-12	6.813E-12	5.298E-12	4.232E-12	3.454E-12
NNE	9.184E-11	4.080E-11	2.471E-11	1.249E-11	7.560E-12	5.069E-12	3.632E-12	2.727E-12	2.121E-12	1.694E-12	1.383E-12
NE	4.774E-11	2.121E-11	1.285E-11	6.494E-12	3.930E-12	2.635E-12	1.888E-12	1.418E-12	1.102E-12	8.806E-13	7.188E-13
ENE	5.347E-11	2.375E-11	1.439E-11	7.273E-12	4.402E-12	2.951E-12	2.115E-12	1.588E-12	1.235E-12	9.863E-13	8.050E-13
E	1.069E-10	4.751E-11	2.878E-11	1.455E-11	8.804E-12	5.903E-12	4.230E-12	3.176E-12	2.469E-12	1.973E-12	1.610E-12
ESE	2.215E-10	9.841E-11	5.961E-11	3.013E-11	1.824E-11	1.223E-11	8.761E-12	6.579E-12	5.115E-12	4.086E-12	3.335E-12
SE	3.629E-10	1.612E-10	9.766E-11	4.936E-11	2.988E-11	2.003E-11	1.435E-11	1.078E-11	8.380E-12	6.694E-12	5.464E-12
SSE	3.801E-10	1.689E-10	1.023E-10	5.170E-11	3.129E-11	2.098E-11	1.503E-11	1.129E-11	8.777E-12	7.011E-12	5.723E-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	3.277E-08	6.712E-09	1.752E-09	7.870E-10	4.452E-10	1.712E-10	4.953E-11	1.963E-11	1.048E-11	6.488E-12
SSW	7.000E-09	1.434E-09	3.743E-10	1.681E-10	9.510E-11	3.657E-11	1.058E-11	4.193E-12	2.239E-12	1.386E-12
SW	4.306E-09	8.820E-10	2.302E-10	1.034E-10	5.850E-11	2.250E-11	6.508E-12	2.579E-12	1.377E-12	8.526E-13
WSW	7.163E-09	1.467E-09	3.830E-10	1.720E-10	9.731E-11	3.742E-11	1.083E-11	4.291E-12	2.291E-12	1.418E-12
W	1.021E-08	2.092E-09	5.462E-10	2.453E-10	1.388E-10	5.337E-11	1.544E-11	6.119E-12	3.268E-12	2.023E-12
WNW	8.774E-09	1.797E-09	4.692E-10	2.107E-10	1.192E-10	4.584E-11	1.326E-11	5.256E-12	2.807E-12	1.737E-12
NW	1.739E-08	3.563E-09	9.301E-10	4.177E-10	2.363E-10	9.088E-11	2.629E-11	1.042E-11	5.564E-12	3.444E-12
NNW	2.102E-08	4.305E-09	1.124E-09	5.047E-10	2.855E-10	1.098E-10	3.176E-11	1.259E-11	6.723E-12	4.161E-12
N	2.151E-08	4.406E-09	1.150E-09	5.166E-10	2.923E-10	1.124E-10	3.252E-11	1.289E-11	6.882E-12	4.260E-12
NNE	8.611E-09	1.764E-09	4.605E-10	2.068E-10	1.170E-10	4.499E-11	1.302E-11	5.159E-12	2.755E-12	1.705E-12
NE	4.477E-09	9.170E-10	2.394E-10	1.075E-10	6.082E-11	2.339E-11	6.766E-12	2.682E-12	1.432E-12	8.864E-13
ENE	5.014E-09	1.027E-09	2.681E-10	1.204E-10	6.812E-11	2.620E-11	7.578E-12	3.004E-12	1.604E-12	9.928E-13
E	1.003E-08	2.054E-09	5.362E-10	2.408E-10	1.362E-10	5.239E-11	1.516E-11	6.007E-12	3.208E-12	1.986E-12
ESE	2.077E-08	4.255E-09	1.111E-09	4.989E-10	2.822E-10	1.085E-10	3.140E-11	1.244E-11	6.645E-12	4.113E-12
SE	3.403E-08	6.971E-09	1.820E-09	8.173E-10	4.623E-10	1.778E-10	5.144E-11	2.039E-11	1.089E-11	6.738E-12
SSE	3.564E-08	7.301E-09	1.906E-09	8.560E-10	4.842E-10	1.862E-10	5.387E-11	2.135E-11	1.140E-11	7.057E-12

VENTS GROUND LEVEL RELEASES - OCT-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	5.144E-06	5.128E-06	4.563E-06	2.851E-08
A	SITE BOUNDARY	SSW	0.82	1327.	1.758E-06	1.750E-06	1.556E-06	5.619E-09
A	SITE BOUNDARY	SW	0.98	1569.	7.253E-07	7.215E-07	6.350E-07	2.235E-09
A	SITE BOUNDARY	WSW	0.93	1489.	9.144E-07	9.114E-07	8.038E-07	4.257E-09
A	SITE BOUNDARY	W	0.91	1468.	1.026E-06	1.023E-06	9.030E-07	6.299E-09
A	SITE BOUNDARY	WNW	0.94	1509.	6.272E-07	6.257E-07	5.510E-07	5.037E-09
A	SITE BOUNDARY	NW	0.81	1307.	2.710E-06	2.701E-06	2.401E-06	1.453E-08
A	SITE BOUNDARY	NNW	0.69	1106.	6.507E-06	6.484E-06	5.821E-06	2.490E-08
A	SITE BOUNDARY	N	0.67	1086.	7.116E-06	7.094E-06	6.373E-06	2.628E-08
A	SITE BOUNDARY	NNE	0.60	965.	3.468E-06	3.458E-06	3.128E-06	1.275E-08
A	SITE BOUNDARY	NE	0.62	1005.	1.705E-06	1.700E-06	1.533E-06	6.229E-09
A	SITE BOUNDARY	ENE	0.59	945.	1.496E-06	1.493E-06	1.351E-06	7.683E-09
A	SITE BOUNDARY	E	0.53	845.	3.012E-06	3.007E-06	2.741E-06	1.845E-08
A	SITE BOUNDARY	ESE	0.54	865.	4.482E-06	4.475E-06	4.073E-06	3.679E-08
A	SITE BOUNDARY	SE	0.65	1046.	4.729E-06	4.721E-06	4.295E-06	4.428E-08
A	SITE BOUNDARY	SSE	0.81	1307.	4.371E-06	4.359E-06	3.874E-06	2.978E-08
A	NEAR. RESIDENCE	SSW	1.80	2897.	2.923E-07	2.894E-07	2.437E-07	7.823E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	3.714E-07	3.688E-07	3.184E-07	1.074E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	4.052E-07	4.034E-07	3.476E-07	1.787E-09
A	NEAR. RESIDENCE	W	1.00	1609.	8.200E-07	8.171E-07	7.171E-07	4.968E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	1.729E-07	1.721E-07	1.458E-07	1.308E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.100E-06	2.093E-06	1.849E-06	1.112E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	7.096E-07	7.024E-07	5.887E-07	2.060E-09
A	NEAR. RESIDENCE	N	3.00	4828.	3.178E-07	3.133E-07	2.514E-07	7.186E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	1.501E-07	1.481E-07	1.201E-07	3.671E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.599E-07	1.592E-07	1.342E-07	6.441E-10
A	NEAR. RESIDENCE	E	1.80	2897.	2.363E-07	2.350E-07	1.973E-07	1.121E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	1.912E-07	1.898E-07	1.552E-07	1.166E-09
A	NEAR. RESIDENCE	SE	2.20	3541.	3.087E-07	3.069E-07	2.529E-07	2.348E-09
A	NEAREST COW	NNW	3.50	5633.	2.151E-07	2.110E-07	1.670E-07	4.939E-10
A	NEAREST GARDEN	SSW	1.80	2897.	2.923E-07	2.894E-07	2.437E-07	7.823E-10
A	NEAREST GARDEN	SW	2.20	3541.	1.176E-07	1.161E-07	9.613E-08	2.970E-10
A	NEAREST GARDEN	WSW	1.30	2092.	4.052E-07	4.034E-07	3.476E-07	1.787E-09
A	NEAREST GARDEN	WNW	2.30	3702.	7.591E-08	7.545E-08	6.191E-08	5.447E-10
A	NEAREST GARDEN	NW	0.90	1448.	2.100E-06	2.093E-06	1.849E-06	1.112E-08
A	NEAREST GARDEN	N	3.00	4828.	3.178E-07	3.133E-07	2.514E-07	7.186E-10
A	NEAREST GARDEN	ENE	1.70	2736.	1.599E-07	1.592E-07	1.342E-07	6.441E-10
A	NEAREST GARDEN	E	1.80	2897.	2.363E-07	2.350E-07	1.973E-07	1.121E-09
A	NEAREST GARDEN	ESE	2.60	4184.	1.619E-07	1.607E-07	1.303E-07	9.670E-10

Atmospheric Diffusion Estimates

Ground Level Releases

July-December 1996

VENTS GROUND LEVEL RELEASES - JUL-DEC 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.930E-05	1.022E-05	5.426E-06	2.678E-06	1.032E-06	5.427E-07	3.365E-07	2.308E-07	1.693E-07	1.304E-07	1.041E-07
SSW	1.623E-05	5.621E-06	2.999E-06	1.486E-06	5.784E-07	3.065E-07	1.912E-07	1.318E-07	9.709E-08	7.505E-08	6.012E-08
SW	1.070E-05	3.792E-06	2.026E-06	1.003E-06	3.888E-07	2.053E-07	1.277E-07	8.774E-08	6.449E-08	4.974E-08	3.976E-08
WSW	8.548E-06	3.056E-06	1.631E-06	8.052E-07	3.087E-07	1.617E-07	9.990E-08	6.827E-08	4.995E-08	3.836E-08	3.054E-08
W	8.811E-06	2.820E-06	1.484E-06	7.284E-07	2.797E-07	1.468E-07	9.083E-08	6.218E-08	4.555E-08	3.503E-08	2.794E-08
WNW	8.442E-06	2.965E-06	1.552E-06	7.579E-07	2.865E-07	1.487E-07	9.121E-08	6.199E-08	4.514E-08	3.453E-08	2.740E-08
NW	2.051E-05	6.825E-06	3.555E-06	1.751E-06	6.881E-07	3.673E-07	2.304E-07	1.596E-07	1.181E-07	9.161E-08	7.363E-08
NNW	4.161E-05	1.361E-05	7.196E-06	3.595E-06	1.456E-06	7.927E-07	5.048E-07	3.538E-07	2.644E-07	2.069E-07	1.675E-07
N	4.339E-05	1.419E-05	7.786E-06	3.963E-06	1.599E-06	8.687E-07	5.519E-07	3.859E-07	2.879E-07	2.248E-07	1.817E-07
NNE	2.078E-05	7.033E-06	3.818E-06	1.924E-06	7.693E-07	4.153E-07	2.626E-07	1.830E-07	1.361E-07	1.060E-07	8.549E-08
NE	1.323E-05	4.399E-06	2.381E-06	1.199E-06	4.787E-07	2.583E-07	1.634E-07	1.138E-07	8.468E-08	6.599E-08	5.324E-08
ENE	9.445E-06	3.149E-06	1.740E-06	8.865E-07	3.552E-07	1.919E-07	1.214E-07	8.459E-08	6.290E-08	4.900E-08	3.952E-08
E	1.068E-05	3.553E-06	1.946E-06	9.877E-07	3.958E-07	2.138E-07	1.353E-07	9.427E-08	7.011E-08	5.461E-08	4.404E-08
ESE	1.484E-05	5.106E-06	2.804E-06	1.417E-06	5.593E-07	2.991E-07	1.878E-07	1.300E-07	9.618E-08	7.458E-08	5.991E-08
SE	2.856E-05	9.564E-06	5.143E-06	2.584E-06	1.035E-06	5.595E-07	3.542E-07	2.469E-07	1.837E-07	1.432E-07	1.155E-07
SSE	4.464E-05	1.492E-05	8.027E-06	4.031E-06	1.606E-06	8.644E-07	5.455E-07	3.795E-07	2.819E-07	2.193E-07	1.767E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.560E-08	4.291E-08	2.734E-08	1.535E-08	1.027E-08	7.541E-09	5.866E-09	4.749E-09	3.958E-09	3.372E-09	2.924E-09
SSW	4.954E-08	2.508E-08	1.609E-08	9.121E-09	6.147E-09	4.537E-09	3.545E-09	2.880E-09	2.408E-09	2.057E-09	1.787E-09
SW	3.271E-08	1.644E-08	1.049E-08	5.888E-09	3.928E-09	2.876E-09	2.233E-09	1.804E-09	1.501E-09	1.277E-09	1.105E-09
WSW	2.503E-08	1.239E-08	7.814E-09	4.318E-09	2.852E-09	2.072E-09	1.598E-09	1.284E-09	1.063E-09	9.003E-10	7.763E-10
W	2.294E-08	1.147E-08	7.288E-09	4.073E-09	2.713E-09	1.984E-09	1.539E-09	1.243E-09	1.034E-09	8.791E-10	7.609E-10
WNW	2.241E-08	1.103E-08	6.936E-09	3.824E-09	2.529E-09	1.840E-09	1.421E-09	1.144E-09	9.485E-10	8.046E-10	6.948E-10
NW	6.087E-08	3.123E-08	2.024E-08	1.163E-08	7.913E-09	5.884E-09	4.626E-09	3.779E-09	3.175E-09	2.724E-09	2.377E-09
NNW	1.392E-07	7.285E-08	4.783E-08	2.796E-08	1.920E-08	1.438E-08	1.136E-08	9.324E-09	7.860E-09	6.765E-09	5.917E-09
N	1.509E-07	7.853E-08	5.133E-08	2.980E-08	2.035E-08	1.516E-08	1.194E-08	9.760E-09	8.202E-09	7.038E-09	6.140E-09
NNE	7.084E-08	3.657E-08	2.378E-08	1.370E-08	9.303E-09	6.905E-09	5.419E-09	4.419E-09	3.706E-09	3.174E-09	2.764E-09
NE	4.414E-08	2.285E-08	1.489E-08	8.617E-09	5.879E-09	4.380E-09	3.447E-09	2.818E-09	2.368E-09	2.032E-09	1.773E-09
ENE	3.274E-08	1.689E-08	1.097E-08	6.313E-09	4.282E-09	3.175E-09	2.489E-09	2.028E-09	1.699E-09	1.454E-09	1.265E-09
E	3.649E-08	1.882E-08	1.223E-08	7.037E-09	4.773E-09	3.539E-09	2.775E-09	2.261E-09	1.895E-09	1.622E-09	1.412E-09
ESE	4.946E-08	2.516E-08	1.619E-08	9.189E-09	6.176E-09	4.547E-09	3.544E-09	2.874E-09	2.398E-09	2.045E-09	1.774E-09
SE	9.578E-08	4.952E-08	3.223E-08	1.861E-08	1.266E-08	9.410E-09	7.395E-09	6.037E-09	5.067E-09	4.345E-09	3.787E-09
SSE	1.464E-07	7.544E-08	4.900E-08	2.822E-08	1.917E-08	1.423E-08	1.117E-08	9.116E-09	7.647E-09	6.553E-09	5.709E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	5.269E-06	1.180E-06	3.492E-07	1.721E-07	1.051E-07	4.548E-08	1.576E-08	7.599E-09	4.767E-09	3.380E-09
SSW	2.910E-06	6.593E-07	1.982E-07	9.860E-08	6.063E-08	2.652E-08	9.348E-09	4.569E-09	2.890E-09	2.061E-09
SW	1.964E-06	4.439E-07	1.324E-07	6.552E-08	4.011E-08	1.741E-08	6.039E-09	2.899E-09	1.811E-09	1.280E-09
WSW	1.580E-06	3.537E-07	1.037E-07	5.077E-08	3.082E-08	1.316E-08	4.443E-09	2.090E-09	1.289E-09	9.026E-10
W	1.445E-06	3.203E-07	9.429E-08	4.630E-08	2.819E-08	1.216E-08	4.183E-09	2.000E-09	1.248E-09	8.811E-10
WNW	1.513E-06	3.300E-07	9.485E-08	4.591E-08	2.767E-08	1.174E-08	3.940E-09	1.857E-09	1.149E-09	8.066E-10
NW	3.480E-06	7.818E-07	2.386E-07	1.198E-07	7.423E-08	3.293E-08	1.189E-08	5.922E-09	3.791E-09	2.729E-09
NNW	7.022E-06	1.636E-06	5.212E-07	2.680E-07	1.687E-07	7.649E-08	2.848E-08	1.446E-08	9.349E-09	6.776E-09
N	7.510E-06	1.800E-06	5.700E-07	2.919E-07	1.831E-07	8.253E-08	3.038E-08	1.525E-08	9.788E-09	7.050E-09
NNE	3.690E-06	8.685E-07	2.715E-07	1.380E-07	8.614E-08	3.850E-08	1.398E-08	6.950E-09	4.433E-09	3.180E-09
NE	2.304E-06	5.408E-07	1.689E-07	8.589E-08	5.364E-08	2.404E-08	8.794E-09	4.407E-09	2.826E-09	2.036E-09
ENE	1.674E-06	4.007E-07	1.255E-07	6.380E-08	3.982E-08	1.778E-08	6.446E-09	3.196E-09	2.034E-09	1.457E-09
E	1.877E-06	4.465E-07	1.398E-07	7.111E-08	4.438E-08	1.982E-08	7.184E-09	3.563E-09	2.269E-09	1.625E-09
ESE	2.699E-06	6.342E-07	1.944E-07	9.763E-08	6.038E-08	2.657E-08	9.405E-09	4.580E-09	2.884E-09	2.049E-09
SE	4.988E-06	1.168E-06	3.660E-07	1.863E-07	1.164E-07	5.211E-08	1.899E-08	9.470E-09	6.056E-09	4.352E-09
SSE	7.781E-06	1.815E-06	5.642E-07	2.859E-07	1.781E-07	7.945E-08	2.881E-08	1.433E-08	9.145E-09	6.564E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.927E-05	1.020E-05	5.409E-06	2.667E-06	1.025E-06	5.380E-07	3.329E-07	2.278E-07	1.668E-07	1.282E-07	1.021E-07
SSW	1.621E-05	5.607E-06	2.988E-06	1.479E-06	5.741E-07	3.035E-07	1.888E-07	1.298E-07	9.538E-08	7.354E-08	5.876E-08
SW	1.068E-05	3.782E-06	2.018E-06	9.983E-07	3.859E-07	2.032E-07	1.260E-07	8.640E-08	6.334E-08	4.872E-08	3.885E-08
WSW	8.540E-06	3.050E-06	1.626E-06	8.022E-07	3.070E-07	1.605E-07	9.894E-08	6.749E-08	4.927E-08	3.777E-08	3.002E-08
W	8.005E-06	2.816E-06	1.480E-06	7.262E-07	2.784E-07	1.459E-07	9.013E-08	6.160E-08	4.506E-08	3.460E-08	2.754E-08
WNW	8.436E-06	2.960E-06	1.549E-06	7.557E-07	2.853E-07	1.478E-07	9.053E-08	6.144E-08	4.467E-08	3.412E-08	2.704E-08
NW	2.049E-05	6.812E-06	3.545E-06	1.745E-06	6.842E-07	3.645E-07	2.282E-07	1.577E-07	1.164E-07	9.016E-08	7.231E-08
NNW	4.156E-05	1.358E-05	7.170E-06	3.578E-06	1.445E-06	7.848E-07	4.985E-07	3.484E-07	2.597E-07	2.026E-07	1.636E-07
N	4.334E-05	1.416E-05	7.757E-06	3.944E-06	1.588E-06	8.601E-07	5.450E-07	3.802E-07	2.829E-07	2.204E-07	1.777E-07
NNE	2.076E-05	7.015E-06	3.803E-06	1.914E-06	7.634E-07	4.110E-07	2.592E-07	1.801E-07	1.336E-07	1.038E-07	8.350E-08
NE	1.321E-05	4.388E-06	2.372E-06	1.193E-06	4.752E-07	2.557E-07	1.613E-07	1.121E-07	8.318E-08	6.465E-08	5.202E-08
ENE	9.434E-06	3.142E-06	1.734E-06	8.824E-07	3.527E-07	1.901E-07	1.200E-07	8.341E-08	6.188E-08	4.809E-08	3.869E-08
E	1.067E-05	3.546E-06	1.940E-06	9.836E-07	3.933E-07	2.120E-07	1.339E-07	9.308E-08	6.906E-08	5.368E-08	4.320E-08
ESE	1.482E-05	5.095E-06	2.795E-06	1.410E-06	5.557E-07	2.965E-07	1.857E-07	1.283E-07	9.470E-08	7.327E-08	5.872E-08
SE	2.852E-05	9.543E-06	5.126E-06	2.572E-06	1.028E-06	5.543E-07	3.500E-07	2.434E-07	1.807E-07	1.405E-07	1.131E-07
SSE	4.459E-05	1.488E-05	7.998E-06	4.011E-06	1.594E-06	8.559E-07	5.388E-07	3.738E-07	2.769E-07	2.149E-07	1.727E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.372E-08	4.150E-08	2.613E-08	1.434E-08	9.380E-09	6.731E-09	5.119E-09	4.052E-09	3.302E-09	2.751E-09	2.332E-09
SSW	4.829E-08	2.413E-08	1.528E-08	8.438E-09	5.541E-09	3.984E-09	3.033E-09	2.402E-09	1.957E-09	1.629E-09	1.380E-09
SW	3.187E-08	1.581E-08	9.956E-09	5.443E-09	3.537E-09	2.522E-09	1.907E-09	1.501E-09	1.216E-09	1.008E-09	8.501E-10
WSW	2.455E-08	1.203E-08	7.514E-09	4.070E-09	2.636E-09	1.878E-09	1.420E-09	1.119E-09	9.086E-10	7.548E-10	6.384E-10
W	2.258E-08	1.119E-08	7.053E-09	3.875E-09	2.537E-09	1.824E-09	1.391E-09	1.104E-09	9.025E-10	7.546E-10	6.421E-10
WNW	2.208E-08	1.079E-08	6.732E-09	3.656E-09	2.383E-09	1.708E-09	1.300E-09	1.031E-09	8.424E-10	7.042E-10	5.994E-10
NW	5.965E-08	3.028E-08	1.941E-08	1.092E-08	7.263E-09	5.284E-09	4.065E-09	3.250E-09	2.672E-09	2.244E-09	1.916E-09
NNW	1.357E-07	7.005E-08	4.538E-08	2.583E-08	1.727E-08	1.259E-08	9.695E-09	7.749E-09	6.366E-09	5.339E-09	4.551E-09
N	1.472E-07	7.561E-08	4.880E-08	2.762E-08	1.839E-08	1.336E-08	1.026E-08	8.182E-09	6.708E-09	5.616E-09	4.781E-09
NNE	6.900E-08	3.515E-08	2.255E-08	1.265E-08	8.367E-09	6.048E-09	4.623E-09	3.673E-09	3.001E-09	2.505E-09	2.126E-09
NE	4.302E-08	2.198E-08	1.414E-08	7.973E-09	5.301E-09	3.848E-09	2.952E-09	2.353E-09	1.927E-09	1.613E-09	1.372E-09
ENE	3.198E-08	1.631E-08	1.047E-08	5.883E-09	3.899E-09	2.824E-09	2.163E-09	1.722E-09	1.411E-09	1.180E-09	1.004E-09
E	3.571E-08	1.822E-08	1.171E-08	6.592E-09	4.375E-09	3.175E-09	2.436E-09	1.943E-09	1.594E-09	1.336E-09	1.139E-09
ESE	4.836E-08	2.432E-08	1.547E-08	8.580E-09	5.635E-09	4.054E-09	3.089E-09	2.447E-09	1.996E-09	1.664E-09	1.411E-09
SE	9.349E-08	4.773E-08	3.067E-08	1.726E-08	1.145E-08	8.298E-09	6.358E-09	5.061E-09	4.143E-09	3.465E-09	2.946E-09
SSE	1.427E-07	7.258E-08	4.653E-08	2.609E-08	1.727E-08	1.249E-08	9.554E-09	7.594E-09	6.207E-09	5.184E-09	4.402E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	5.254E-06	1.173E-06	3.455E-07	1.695E-07	1.030E-07	4.405E-08	1.476E-08	6.793E-09	4.071E-09	2.759E-09
SSW	2.899E-06	6.549E-07	1.958E-07	9.688E-08	5.926E-08	2.557E-08	8.671E-09	4.019E-09	2.413E-09	1.634E-09
SW	1.957E-06	4.408E-07	1.308E-07	6.436E-08	3.919E-08	1.678E-08	5.599E-09	2.547E-09	1.509E-09	1.011E-09
WSW	1.576E-06	3.519E-07	1.028E-07	5.009E-08	3.029E-08	1.280E-08	4.198E-09	1.897E-09	1.125E-09	7.573E-10
W	1.442E-06	3.190E-07	9.358E-08	4.580E-08	2.779E-08	1.188E-08	3.987E-09	1.841E-09	1.109E-09	7.567E-10
WNW	1.510E-06	3.287E-07	9.417E-08	4.544E-08	2.730E-08	1.149E-08	3.774E-09	1.725E-09	1.036E-09	7.063E-10
NW	3.471E-06	7.778E-07	2.363E-07	1.182E-07	7.291E-08	3.197E-08	1.118E-08	5.324E-09	3.262E-09	2.249E-09
NNW	6.998E-06	1.625E-06	5.148E-07	2.633E-07	1.648E-07	7.367E-08	2.637E-08	1.268E-08	7.778E-09	5.351E-09
N	7.484E-06	1.788E-06	5.631E-07	2.869E-07	1.790E-07	7.959E-08	2.822E-08	1.346E-08	8.214E-09	5.630E-09
NNE	3.677E-06	8.625E-07	2.681E-07	1.355E-07	8.414E-08	3.707E-08	1.295E-08	6.097E-09	3.688E-09	2.511E-09
NE	2.296E-06	5.371E-07	1.668E-07	8.439E-08	5.243E-08	2.317E-08	8.156E-09	3.877E-09	2.362E-09	1.617E-09
ENE	1.668E-06	3.982E-07	1.241E-07	6.278E-08	3.899E-08	1.720E-08	6.020E-09	2.846E-09	1.730E-09	1.183E-09
E	1.872E-06	4.439E-07	1.384E-07	7.007E-08	4.353E-08	1.922E-08	6.744E-09	3.200E-09	1.951E-09	1.340E-09
ESE	2.691E-06	6.305E-07	1.923E-07	9.614E-08	5.919E-08	2.573E-08	8.802E-09	4.089E-09	2.459E-09	1.668E-09
SE	4.972E-06	1.161E-06	3.619E-07	1.833E-07	1.139E-07	5.032E-08	1.766E-08	8.362E-09	5.082E-09	3.474E-09
SSE	7.755E-06	1.803E-06	5.574E-07	2.810E-07	1.741E-07	7.658E-08	2.671E-08	1.259E-08	7.626E-09	5.198E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.773E-05	9.325E-06	4.831E-06	2.341E-06	8.745E-07	4.483E-07	2.717E-07	1.826E-07	1.316E-07	9.963E-08	7.830E-08
SSW	1.536E-05	5.129E-06	2.670E-06	1.299E-06	4.902E-07	2.531E-07	1.543E-07	1.042E-07	7.538E-08	5.728E-08	4.516E-08
SW	1.012E-05	3.460E-06	1.804E-06	8.771E-07	3.295E-07	1.695E-07	1.030E-07	6.939E-08	5.007E-08	3.796E-08	2.987E-08
WSW	8.088E-06	2.789E-06	1.452E-06	7.041E-07	2.618E-07	1.336E-07	8.070E-08	5.405E-08	3.882E-08	2.932E-08	2.298E-08
W	7.580E-06	2.574E-06	1.321E-06	6.370E-07	2.372E-07	1.213E-07	7.341E-08	4.926E-08	3.544E-08	2.680E-08	2.104E-08
WNW	7.988E-06	2.706E-06	1.382E-06	6.629E-07	2.431E-07	1.229E-07	7.372E-08	4.911E-08	3.512E-08	2.642E-08	2.064E-08
NW	1.941E-05	6.229E-06	3.166E-06	1.531E-06	5.835E-07	3.035E-07	1.861E-07	1.263E-07	9.177E-08	7.001E-08	5.538E-08
NNW	3.937E-05	1.242E-05	6.406E-06	3.143E-06	1.234E-06	6.546E-07	4.075E-07	2.798E-07	2.053E-07	1.579E-07	1.258E-07
N	4.105E-05	1.295E-05	6.931E-06	3.464E-06	1.355E-06	7.173E-07	4.455E-07	3.052E-07	2.235E-07	1.716E-07	1.365E-07
NNE	1.966E-05	6.418E-06	3.399E-06	1.682E-06	6.519E-07	3.429E-07	2.120E-07	1.447E-07	1.056E-07	8.089E-08	6.421E-08
NE	1.252E-05	4.015E-06	2.120E-06	1.048E-06	4.057E-07	2.133E-07	1.319E-07	9.004E-08	6.574E-08	5.036E-08	3.999E-08
ENE	8.936E-06	2.874E-06	1.549E-06	7.750E-07	3.010E-07	1.585E-07	9.800E-08	6.692E-08	4.886E-08	3.742E-08	2.970E-08
E	1.011E-05	3.243E-06	1.732E-06	8.635E-07	3.355E-07	1.767E-07	1.093E-07	7.461E-08	5.447E-08	4.172E-08	3.312E-08
ESE	1.404E-05	4.660E-06	2.496E-06	1.238E-06	4.742E-07	2.471E-07	1.516E-07	1.029E-07	7.472E-08	5.697E-08	4.504E-08
SE	2.702E-05	8.729E-06	4.579E-06	2.259E-06	8.775E-07	4.621E-07	2.859E-07	1.954E-07	1.427E-07	1.093E-07	8.683E-08
SSE	4.224E-05	1.361E-05	7.145E-06	3.523E-06	1.361E-06	7.138E-07	4.404E-07	3.002E-07	2.188E-07	1.674E-07	1.328E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.340E-08	2.997E-08	1.813E-08	9.360E-09	5.846E-09	4.039E-09	2.976E-09	2.291E-09	1.822E-09	1.485E-09	1.234E-09
SSW	3.666E-08	1.749E-08	1.065E-08	5.548E-09	3.486E-09	2.419E-09	1.788E-09	1.380E-09	1.100E-09	8.983E-10	7.477E-10
SW	2.420E-08	1.146E-08	6.944E-09	3.580E-09	2.227E-09	1.533E-09	1.126E-09	8.643E-10	6.854E-10	5.572E-10	4.620E-10
WSW	1.856E-08	8.661E-09	5.192E-09	2.640E-09	1.629E-09	1.115E-09	8.149E-10	6.233E-10	4.929E-10	3.998E-10	3.308E-10
W	1.702E-08	8.028E-09	4.851E-09	2.497E-09	1.554E-09	1.072E-09	7.883E-10	6.063E-10	4.819E-10	3.927E-10	3.263E-10
WNW	1.663E-08	7.728E-09	4.621E-09	2.348E-09	1.452E-09	9.970E-10	7.309E-10	5.607E-10	4.446E-10	3.617E-10	3.001E-10
NW	4.511E-08	2.182E-08	1.343E-08	7.104E-09	4.509E-09	3.156E-09	2.350E-09	1.826E-09	1.464E-09	1.201E-09	1.005E-09
NNW	1.030E-07	5.079E-08	3.166E-08	1.700E-08	1.088E-08	7.656E-09	5.724E-09	4.461E-09	3.584E-09	2.948E-09	2.469E-09
N	1.117E-07	5.477E-08	3.399E-08	1.813E-08	1.154E-08	8.091E-09	6.027E-09	4.683E-09	3.753E-09	3.079E-09	2.573E-09
NNE	5.241E-08	2.549E-08	1.573E-08	8.327E-09	5.271E-09	3.679E-09	2.731E-09	2.116E-09	1.691E-09	1.384E-09	1.155E-09
NE	3.266E-08	1.593E-08	9.858E-09	5.241E-09	3.334E-09	2.335E-09	1.739E-09	1.351E-09	1.082E-09	8.876E-10	7.418E-10
ENE	2.424E-08	1.179E-08	7.274E-09	3.848E-09	2.435E-09	1.699E-09	1.261E-09	9.769E-10	7.808E-10	6.392E-10	5.333E-10
E	2.704E-08	1.315E-08	8.115E-09	4.295E-09	2.719E-09	1.898E-09	1.410E-09	1.093E-09	8.740E-10	7.159E-10	5.976E-10
ESE	3.663E-08	1.757E-08	1.074E-08	5.603E-09	3.514E-09	2.435E-09	1.797E-09	1.385E-09	1.103E-09	8.995E-10	7.479E-10
SE	7.091E-08	3.454E-08	2.135E-08	1.132E-08	7.183E-09	5.022E-09	3.733E-09	2.896E-09	2.317E-09	1.899E-09	1.586E-09
SSE	1.083E-07	5.260E-08	3.244E-08	1.716E-08	1.087E-08	7.586E-09	5.634E-09	4.366E-09	3.491E-09	2.859E-09	2.385E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.723E-06	1.011E-06	2.832E-07	1.340E-07	7.910E-08	3.214E-08	9.748E-09	4.096E-09	2.308E-09	1.492E-09
SSW	2.607E-06	5.646E-07	1.606E-07	7.672E-08	4.561E-08	1.871E-08	5.765E-09	2.451E-09	1.390E-09	9.023E-10
SW	1.760E-06	3.801E-07	1.073E-07	5.098E-08	3.017E-08	1.229E-08	3.726E-09	1.555E-09	8.709E-10	5.599E-10
WSW	1.417E-06	3.031E-07	8.415E-08	3.955E-08	2.322E-08	9.318E-09	2.758E-09	1.132E-09	6.284E-10	4.018E-10
W	1.296E-06	2.746E-07	7.653E-08	3.609E-08	2.126E-08	8.615E-09	2.601E-09	1.087E-09	6.109E-10	3.945E-10
WNW	1.357E-06	2.830E-07	7.700E-08	3.580E-08	2.087E-08	8.326E-09	2.455E-09	1.012E-09	5.651E-10	3.635E-10
NW	3.120E-06	6.697E-07	1.935E-07	9.335E-08	5.591E-08	2.327E-08	7.357E-09	3.194E-09	1.838E-09	1.206E-09
NNW	6.293E-06	1.400E-06	4.223E-07	2.085E-07	1.269E-07	5.390E-08	1.753E-08	7.742E-09	4.488E-09	2.959E-09
N	6.728E-06	1.540E-06	4.619E-07	2.271E-07	1.377E-07	5.819E-08	1.873E-08	8.186E-09	4.713E-09	3.091E-09
NNE	3.306E-06	7.434E-07	2.200E-07	1.074E-07	6.478E-08	2.714E-08	8.615E-09	3.724E-09	2.130E-09	1.390E-09
NE	2.064E-06	4.629E-07	1.368E-07	6.682E-08	4.035E-08	1.695E-08	5.419E-09	2.363E-09	1.359E-09	8.913E-10
ENE	1.499E-06	3.430E-07	1.017E-07	4.966E-08	2.997E-08	1.255E-08	3.981E-09	1.720E-09	9.834E-10	6.419E-10
E	1.682E-06	3.823E-07	1.134E-07	5.537E-08	3.341E-08	1.400E-08	4.443E-09	1.922E-09	1.100E-09	7.189E-10
ESE	2.418E-06	5.431E-07	1.576E-07	7.601E-08	4.546E-08	1.877E-08	5.815E-09	2.467E-09	1.395E-09	9.036E-10
SE	4.470E-06	9.998E-07	2.967E-07	1.450E-07	8.760E-08	3.676E-08	1.171E-08	5.083E-09	2.915E-09	1.907E-09
SSE	6.973E-06	1.554E-06	4.572E-07	2.225E-07	1.340E-07	5.602E-08	1.776E-08	7.680E-09	4.395E-09	2.871E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.612E-07	5.451E-08	2.799E-08	1.331E-08	4.780E-09	2.370E-09	1.396E-09	9.139E-10	6.431E-10	4.766E-10	3.673E-10
SSW	6.181E-08	2.090E-08	1.073E-08	5.102E-09	1.833E-09	9.089E-10	5.352E-10	3.504E-10	2.466E-10	1.827E-10	1.408E-10
SW	3.869E-08	1.308E-08	6.718E-09	3.194E-09	1.147E-09	5.689E-10	3.350E-10	2.194E-10	1.544E-10	1.144E-10	8.815E-11
WSW	4.943E-08	1.671E-08	8.582E-09	4.080E-09	1.465E-09	7.268E-10	4.279E-10	2.802E-10	1.972E-10	1.461E-10	1.126E-10
W	5.911E-08	1.999E-08	1.026E-08	4.879E-09	1.752E-09	8.691E-10	5.117E-10	3.351E-10	2.358E-10	1.747E-10	1.347E-10
WNW	7.253E-08	2.453E-08	1.259E-08	5.987E-09	2.150E-09	1.066E-09	6.279E-10	4.112E-10	2.893E-10	2.144E-10	1.652E-10
NW	1.408E-07	4.762E-08	2.445E-08	1.162E-08	4.176E-09	2.071E-09	1.219E-09	7.984E-10	5.618E-10	4.163E-10	3.208E-10
NNW	1.641E-07	5.548E-08	2.849E-08	1.354E-08	4.865E-09	2.413E-09	1.421E-09	9.302E-10	6.545E-10	4.851E-10	3.738E-10
N	1.597E-07	5.402E-08	2.774E-08	1.319E-08	4.736E-09	2.349E-09	1.383E-09	9.056E-10	6.372E-10	4.723E-10	3.639E-10
NNE	7.582E-08	2.564E-08	1.316E-08	6.259E-09	2.248E-09	1.115E-09	6.565E-10	4.298E-10	3.025E-10	2.242E-10	1.727E-10
NE	4.732E-08	1.600E-08	8.216E-09	3.906E-09	1.403E-09	6.958E-10	4.097E-10	2.683E-10	1.888E-10	1.399E-10	1.078E-10
ENE	3.495E-08	1.182E-08	6.068E-09	2.885E-09	1.036E-09	5.139E-10	3.026E-10	1.981E-10	1.394E-10	1.033E-10	7.962E-11
E	4.731E-08	1.600E-08	8.214E-09	3.905E-09	1.403E-09	6.956E-10	4.096E-10	2.682E-10	1.887E-10	1.399E-10	1.078E-10
ESE	8.438E-08	2.854E-08	1.465E-08	6.966E-09	2.502E-09	1.241E-09	7.306E-10	4.784E-10	3.366E-10	2.495E-10	1.922E-10
SE	1.436E-07	4.855E-08	2.493E-08	1.185E-08	4.257E-09	2.111E-09	1.243E-09	8.139E-10	5.727E-10	4.244E-10	3.271E-10
SSE	1.990E-07	6.728E-08	3.454E-08	1.642E-08	5.899E-09	2.925E-09	1.723E-09	1.128E-09	7.936E-10	5.882E-10	4.533E-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	2.918E-10	1.296E-10	7.851E-11	3.968E-11	2.402E-11	1.610E-11	1.154E-11	8.665E-12	6.737E-12	5.382E-12	4.393E-12
SSW	1.119E-10	4.970E-11	3.010E-11	1.522E-11	9.210E-12	6.175E-12	4.425E-12	3.322E-12	2.583E-12	2.063E-12	1.684E-12
SW	7.003E-11	3.111E-11	1.885E-11	9.525E-12	5.765E-12	3.865E-12	2.770E-12	2.080E-12	1.617E-12	1.292E-12	1.054E-12
WSW	8.945E-11	3.974E-11	2.407E-11	1.217E-11	7.364E-12	4.938E-12	3.538E-12	2.657E-12	2.066E-12	1.650E-12	1.347E-12
W	1.070E-10	4.752E-11	2.879E-11	1.455E-11	8.806E-12	5.905E-12	4.231E-12	3.177E-12	2.470E-12	1.973E-12	1.611E-12
WNW	1.313E-10	5.831E-11	3.532E-11	1.785E-11	1.081E-11	7.245E-12	5.192E-12	3.898E-12	3.031E-12	2.421E-12	1.976E-12
NW	2.549E-10	1.132E-10	6.859E-11	3.467E-11	2.098E-11	1.407E-11	1.008E-11	7.570E-12	5.885E-12	4.701E-12	3.837E-12
NNW	2.970E-10	1.319E-10	7.991E-11	4.039E-11	2.445E-11	1.639E-11	1.174E-11	8.819E-12	6.857E-12	5.478E-12	4.471E-12
N	2.891E-10	1.284E-10	7.780E-11	3.932E-11	2.380E-11	1.596E-11	1.143E-11	8.586E-12	6.676E-12	5.333E-12	4.353E-12
NNE	1.372E-10	6.096E-11	3.693E-11	1.866E-11	1.130E-11	7.574E-12	5.427E-12	4.075E-12	3.169E-12	2.531E-12	2.066E-12
NE	8.565E-11	3.805E-11	2.305E-11	1.165E-11	7.051E-12	4.727E-12	3.387E-12	2.544E-12	1.978E-12	1.580E-12	1.289E-12
ENE	6.325E-11	2.810E-11	1.702E-11	8.603E-12	5.207E-12	3.491E-12	2.502E-12	1.878E-12	1.461E-12	1.167E-12	9.523E-13
E	8.563E-11	3.804E-11	2.304E-11	1.165E-11	7.049E-12	4.726E-12	3.387E-12	2.543E-12	1.977E-12	1.579E-12	1.289E-12
ESE	1.527E-10	6.785E-11	4.110E-11	2.077E-11	1.257E-11	8.430E-12	6.040E-12	4.536E-12	3.527E-12	2.817E-12	2.299E-12
SE	2.598E-10	1.154E-10	6.992E-11	3.534E-11	2.139E-11	1.434E-11	1.028E-11	7.717E-12	6.000E-12	4.793E-12	3.912E-12
SSE	3.601E-10	1.600E-10	9.690E-11	4.898E-11	2.964E-11	1.988E-11	1.424E-11	1.069E-11	8.315E-12	6.642E-12	5.421E-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	2.736E-08	5.604E-09	1.463E-09	6.570E-10	3.717E-10	1.429E-10	4.135E-11	1.639E-11	8.752E-12	5.417E-12
SSW	1.049E-08	2.149E-09	5.609E-10	2.519E-10	1.425E-10	5.480E-11	1.585E-11	6.284E-12	3.356E-12	2.077E-12
SW	6.567E-09	1.345E-09	3.511E-10	1.577E-10	8.921E-11	3.431E-11	9.925E-12	3.934E-12	2.101E-12	1.300E-12
WSW	8.388E-09	1.718E-09	4.485E-10	2.014E-10	1.140E-10	4.382E-11	1.268E-11	5.025E-12	2.683E-12	1.661E-12
W	1.003E-08	2.055E-09	5.364E-10	2.409E-10	1.363E-10	5.241E-11	1.516E-11	6.009E-12	3.209E-12	1.986E-12
WNW	1.231E-08	2.521E-09	6.582E-10	2.956E-10	1.672E-10	6.431E-11	1.860E-11	7.373E-12	3.937E-12	2.437E-12
NW	2.390E-08	4.895E-09	1.278E-09	5.740E-10	3.247E-10	1.249E-10	3.612E-11	1.432E-11	7.645E-12	4.732E-12
NNW	2.785E-08	5.704E-09	1.489E-09	6.687E-10	3.783E-10	1.455E-10	4.209E-11	1.668E-11	8.908E-12	5.514E-12
N	2.711E-08	5.553E-09	1.450E-09	6.511E-10	3.683E-10	1.416E-10	4.098E-11	1.624E-11	8.672E-12	5.368E-12
NNE	1.287E-08	2.636E-09	6.881E-10	3.090E-10	1.748E-10	6.723E-11	1.945E-11	7.708E-12	4.116E-12	2.548E-12
NE	8.031E-09	1.645E-09	4.294E-10	1.929E-10	1.091E-10	4.196E-11	1.214E-11	4.811E-12	2.569E-12	1.590E-12
ENE	5.931E-09	1.215E-09	3.171E-10	1.424E-10	8.058E-11	3.099E-11	8.964E-12	3.553E-12	1.897E-12	1.174E-12
E	8.029E-09	1.645E-09	4.293E-10	1.928E-10	1.091E-10	4.195E-11	1.214E-11	4.810E-12	2.568E-12	1.590E-12
ESE	1.432E-08	2.933E-09	7.658E-10	3.439E-10	1.946E-10	7.482E-11	2.165E-11	8.579E-12	4.581E-12	2.836E-12
SE	2.436E-08	4.991E-09	1.303E-09	5.851E-10	3.310E-10	1.273E-10	3.683E-11	1.460E-11	7.794E-12	4.824E-12
SSE	3.376E-08	6.916E-09	1.805E-09	8.109E-10	4.587E-10	1.764E-10	5.103E-11	2.023E-11	1.080E-11	6.686E-12

VENTS GROUND LEVEL RELEASES - JUL-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	4.650E-06	4.634E-06	4.124E-06	2.380E-08
A	SITE BOUNDARY	SSW	0.82	1327.	2.383E-06	2.374E-06	2.110E-06	8.421E-09
A	SITE BOUNDARY	SW	0.98	1569.	1.066E-06	1.061E-06	9.335E-07	3.408E-09
A	SITE BOUNDARY	WSW	0.93	1489.	9.730E-07	9.696E-07	8.552E-07	4.985E-09
A	SITE BOUNDARY	W	0.91	1468.	9.126E-07	9.101E-07	8.031E-07	6.186E-09
A	SITE BOUNDARY	WNW	0.94	1509.	8.884E-07	8.859E-07	7.803E-07	7.067E-09
A	SITE BOUNDARY	NW	0.81	1307.	2.926E-06	2.917E-06	2.593E-06	1.997E-08
A	SITE BOUNDARY	NNW	0.69	1106.	8.239E-06	8.211E-06	7.371E-06	3.299E-08
A	SITE BOUNDARY	N	0.67	1086.	9.084E-06	9.054E-06	8.135E-06	3.312E-08
A	SITE BOUNDARY	NNE	0.60	965.	5.340E-06	5.324E-06	4.916E-06	1.905E-08
A	SITE BOUNDARY	NE	0.62	1005.	3.138E-06	3.128E-06	2.821E-06	1.117E-08
A	SITE BOUNDARY	ENE	0.59	945.	2.475E-06	2.468E-06	2.235E-06	9.088E-09
A	SITE BOUNDARY	E	0.53	845.	3.285E-06	3.278E-06	2.989E-06	1.477E-08
A	SITE BOUNDARY	ESE	0.54	865.	4.562E-06	4.552E-06	4.145E-06	2.536E-08
A	SITE BOUNDARY	SE	0.65	1046.	6.390E-06	6.371E-06	5.734E-06	3.170E-08
A	SITE BOUNDARY	SSE	0.81	1307.	6.647E-06	6.621E-06	5.889E-06	2.821E-08
A	NEAR. RESIDENCE	SSW	1.80	2897.	3.855E-07	3.820E-07	3.215E-07	1.172E-09
A	NEAR. RESIDENCE	SW	1.39	2092.	5.398E-07	5.362E-07	4.628E-07	1.638E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	4.302E-07	4.281E-07	3.690E-07	2.093E-09
A	NEAR. RESIDENCE	W	1.00	1609.	7.284E-07	7.262E-07	6.370E-07	4.879E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.468E-07	2.456E-07	2.082E-07	1.835E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.264E-06	2.256E-06	1.993E-06	1.527E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	8.816E-07	8.733E-07	7.316E-07	2.730E-09
A	NEAR. RESIDENCE	N	3.00	4828.	3.859E-07	3.802E-07	3.052E-07	9.056E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	2.252E-07	2.220E-07	1.802E-07	5.485E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.708E-07	2.687E-07	2.271E-07	7.620E-10
A	NEAR. RESIDENCE	E	1.80	2897.	2.671E-07	2.651E-07	2.228E-07	8.974E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.042E-07	2.020E-07	1.656E-07	8.040E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	4.592E-07	4.545E-07	3.757E-07	1.681E-09
A	NEAREST COW	NNW	3.50	5633.	2.643E-07	2.596E-07	2.052E-07	6.544E-10
A	NEAREST GARDEN	SSW	1.80	2897.	3.855E-07	3.820E-07	3.215E-07	1.172E-09
A	NEAREST GARDEN	SW	2.20	3541.	1.672E-07	1.654E-07	1.368E-07	4.530E-10
A	NEAREST GARDEN	WSW	1.30	2092.	4.302E-07	4.281E-07	3.690E-07	2.093E-09
A	NEAREST GARDEN	WNW	2.30	3702.	1.092E-07	1.085E-07	8.906E-08	7.641E-10
A	NEAREST GARDEN	NW	0.90	1448.	2.264E-06	2.256E-06	1.993E-06	1.527E-08
A	NEAREST GARDEN	N	3.00	4828.	3.859E-07	3.802E-07	3.052E-07	9.056E-10
A	NEAREST GARDEN	ENE	1.70	2736.	2.708E-07	2.687E-07	2.271E-07	7.620E-10
A	NEAREST GARDEN	E	1.80	2897.	2.671E-07	2.651E-07	2.228E-07	8.974E-10
A	NEAREST GARDEN	ESE	2.60	4184.	1.734E-07	1.714E-07	1.394E-07	6.667E-10

Atmospheric Diffusion Estimates

Ground Level Releases

January-December 1996

VENTS GROUND LEVEL RELEASES - JAN-DEC 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.675E-05	9.104E-06	4.889E-06	2.440E-06	9.558E-07	5.087E-07	3.183E-07	2.199E-07	1.624E-07	1.258E-07	1.009E-07
SSW	1.552E-05	5.274E-06	2.799E-06	1.389E-06	5.479E-07	2.931E-07	1.842E-07	1.277E-07	9.458E-08	7.343E-08	5.906E-08
SW	9.510E-06	3.279E-06	1.753E-06	8.724E-07	3.429E-07	1.829E-07	1.146E-07	7.930E-08	5.861E-08	4.542E-08	3.647E-08
WSW	7.547E-06	2.688E-06	1.439E-06	7.122E-07	2.738E-07	1.437E-07	8.888E-08	6.082E-08	4.453E-08	3.423E-08	2.728E-08
W	6.684E-06	2.376E-06	1.258E-06	6.195E-07	2.379E-07	1.248E-07	7.717E-08	5.280E-08	3.867E-08	2.973E-08	2.369E-08
WNW	1.005E-05	3.527E-06	1.866E-06	9.195E-07	3.535E-07	1.856E-07	1.149E-07	7.865E-08	5.763E-08	4.433E-08	3.535E-08
NW	2.254E-05	7.352E-06	3.835E-06	1.900E-06	7.617E-07	4.122E-07	2.613E-07	1.360E-07	1.061E-07	8.575E-08	
NNW	3.608E-05	1.176E-05	6.251E-06	3.134E-06	1.272E-06	6.942E-07	4.426E-07	3.105E-07	2.322E-07	1.818E-07	1.473E-07
N	4.047E-05	1.306E-05	7.130E-06	3.629E-06	1.474E-06	8.039E-07	5.124E-07	3.593E-07	2.686E-07	2.102E-07	1.702E-07
NNE	2.241E-05	7.336E-06	3.929E-06	1.977E-06	7.999E-07	4.353E-07	2.770E-07	1.940E-07	1.449E-07	1.133E-07	9.169E-08
NE	1.206E-05	3.968E-06	2.142E-06	1.080E-06	4.348E-07	2.359E-07	1.498E-07	1.047E-07	7.810E-08	6.100E-08	4.931E-08
ENE	1.131E-05	3.678E-06	2.008E-06	1.022E-06	4.144E-07	2.257E-07	1.437E-07	1.006E-07	7.515E-08	5.875E-08	4.753E-08
E	1.013E-05	3.337E-06	1.827E-06	9.283E-07	3.735E-07	2.023E-07	1.283E-07	8.956E-08	6.670E-08	5.203E-08	4.201E-08
ESE	1.644E-05	5.647E-06	3.056E-06	1.533E-06	6.060E-07	3.245E-07	2.040E-07	1.414E-07	1.047E-07	8.128E-08	6.535E-08
SE	2.755E-05	9.356E-06	5.051E-06	2.536E-06	1.007E-06	5.411E-07	3.409E-07	2.368E-07	1.756E-07	1.365E-07	1.099E-07
SSE	3.920E-05	1.299E-05	6.999E-06	3.522E-06	1.407E-06	7.593E-07	4.799E-07	3.342E-07	2.485E-07	1.935E-07	1.560E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.326E-08	4.237E-08	2.728E-08	1.553E-08	1.048E-08	7.741E-09	6.053E-09	4.921E-09	4.116E-09	3.518E-09	3.058E-09
SSW	4.883E-08	2.505E-08	1.622E-08	9.310E-09	6.322E-09	4.693E-09	3.685E-09	3.006E-09	2.522E-09	2.161E-09	1.883E-09
SW	3.011E-08	1.534E-08	9.885E-09	5.628E-09	3.793E-09	2.799E-09	2.187E-09	1.777E-09	1.486E-09	1.269E-09	1.103E-09
WSW	2.237E-08	1.109E-08	7.009E-09	3.882E-09	2.569E-09	1.869E-09	1.443E-09	1.160E-09	9.612E-10	8.147E-10	7.029E-10
W	1.944E-08	9.682E-09	6.136E-09	3.414E-09	2.266E-09	1.653E-09	1.279E-09	1.030E-09	8.552E-10	7.261E-10	6.275E-10
WNW	2.902E-08	1.447E-08	9.186E-09	5.125E-09	3.412E-09	2.494E-09	1.934E-09	1.561E-09	1.298E-09	1.104E-09	9.549E-10
NW	7.120E-08	3.705E-08	2.429E-08	1.416E-08	9.714E-09	7.270E-09	5.746E-09	4.714E-09	3.974E-09	3.421E-09	2.992E-09
NNW	1.225E-07	6.423E-08	4.222E-08	2.472E-08	1.698E-08	1.272E-08	1.006E-08	8.256E-09	6.961E-09	5.992E-09	5.242E-09
N	1.415E-07	7.403E-08	4.858E-08	2.835E-08	1.943E-08	1.452E-08	1.146E-08	9.384E-09	7.900E-09	6.789E-09	5.931E-09
NNE	7.620E-08	3.980E-08	2.609E-08	1.521E-08	1.042E-08	7.788E-09	6.147E-09	5.036E-09	4.241E-09	3.646E-09	3.186E-09
NE	4.095E-08	2.133E-08	1.395E-08	8.116E-09	5.554E-09	4.147E-09	3.270E-09	2.678E-09	2.253E-09	1.936E-09	1.691E-09
ENE	3.949E-08	2.059E-08	1.348E-08	7.839E-09	5.356E-09	3.994E-09	3.147E-09	2.574E-09	2.164E-09	1.858E-09	1.621E-09
E	3.484E-08	1.804E-08	1.175E-08	6.791E-09	4.621E-09	3.435E-09	2.699E-09	2.203E-09	1.848E-09	1.584E-09	1.380E-09
ESE	5.399E-08	2.757E-08	1.779E-08	1.014E-08	6.848E-09	5.059E-09	3.956E-09	3.216E-09	2.689E-09	2.298E-09	1.998E-09
SE	9.086E-08	4.659E-08	3.014E-08	1.726E-08	1.168E-08	8.642E-09	6.767E-09	5.508E-09	4.611E-09	3.944E-09	3.431E-09
SSE	1.293E-07	6.676E-08	4.342E-08	2.504E-08	1.703E-08	1.266E-08	9.945E-09	8.118E-09	6.814E-09	5.841E-09	5.091E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.737E-06	1.087E-06	3.297E-07	1.649E-07	1.017E-07	4.475E-08	1.589E-08	7.796E-09	4.938E-09	3.525E-09
SSW	2.722E-06	6.217E-07	1.906E-07	9.598E-08	5.953E-08	2.641E-08	9.517E-09	4.724E-09	3.015E-09	2.165E-09
SW	1.701E-06	3.894E-07	1.187E-07	5.950E-08	3.677E-08	1.620E-08	5.759E-09	2.820E-09	1.783E-09	1.272E-09
WSW	1.394E-06	3.134E-07	9.227E-08	4.526E-08	2.752E-08	1.178E-08	3.993E-09	1.885E-09	1.165E-09	8.167E-10
W	1.223E-06	2.724E-07	8.012E-08	3.930E-08	2.391E-08	1.028E-08	3.509E-09	1.667E-09	1.035E-09	7.278E-10
WNW	1.814E-06	4.046E-07	1.192E-07	5.857E-08	3.566E-08	1.536E-08	5.266E-09	2.515E-09	1.567E-09	1.106E-09
NW	3.757E-06	8.594E-07	2.700E-07	1.379E-07	8.640E-08	3.898E-08	1.443E-08	7.312E-09	4.727E-09	3.426E-09
NNW	6.090E-06	1.429E-06	4.569E-07	2.354E-07	1.484E-07	6.741E-08	2.517E-08	1.279E-08	8.278E-09	6.001E-09
N	6.893E-06	1.655E-06	5.289E-07	2.722E-07	1.714E-07	7.771E-08	2.888E-08	1.460E-08	9.410E-09	6.800E-09
NNE	3.819E-06	8.995E-07	2.861E-07	1.469E-07	9.236E-08	4.179E-08	1.550E-08	7.834E-09	5.050E-09	3.652E-09
NE	2.076E-06	4.897E-07	1.547E-07	7.920E-08	4.968E-08	2.241E-08	8.274E-09	4.172E-09	2.685E-09	1.939E-09
ENE	1.941E-06	4.656E-07	1.483E-07	7.618E-08	4.788E-08	2.163E-08	7.989E-09	4.018E-09	2.581E-09	1.861E-09
E	1.763E-06	4.207E-07	1.325E-07	6.764E-08	4.232E-08	1.898E-08	6.929E-09	3.456E-09	2.209E-09	1.587E-09
ESE	2.955E-06	6.868E-07	2.111E-07	1.063E-07	6.586E-08	2.909E-08	1.038E-08	5.095E-09	3.227E-09	2.303E-09
SE	4.890E-06	1.140E-06	3.526E-07	1.782E-07	1.107E-07	4.912E-08	1.764E-08	8.701E-09	5.526E-09	3.952E-09
SSE	6.785E-06	1.589E-06	4.961E-07	2.520E-07	1.572E-07	7.028E-08	2.556E-08	1.274E-08	8.143E-09	5.851E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.672E-05	9.083E-06	4.873E-06	2.429E-06	9.490E-07	5.039E-07	3.145E-07	2.167E-07	1.596E-07	1.233E-07	9.867E-08
SSW	1.550E-05	5.260E-06	2.788E-06	1.382E-06	5.435E-07	2.899E-07	1.817E-07	1.256E-07	9.274E-08	7.180E-08	5.758E-08
SW	9.498E-06	3.270E-06	1.746E-06	8.679E-07	3.402E-07	1.810E-07	1.131E-07	7.805E-08	5.753E-08	4.446E-08	3.560E-08
WSW	7.540E-06	2.683E-06	1.435E-06	7.095E-07	2.723E-07	1.426E-07	8.805E-08	6.013E-08	4.395E-08	3.371E-08	2.682E-08
W	6.679E-06	2.372E-06	1.256E-06	6.177E-07	2.368E-07	1.240E-07	7.660E-08	5.233E-08	3.826E-08	2.937E-08	2.337E-08
WNW	1.005E-05	3.521E-06	1.862E-06	9.166E-07	3.518E-07	1.844E-07	1.139E-07	7.787E-08	5.697E-08	4.374E-08	3.483E-08
NW	2.251E-05	7.336E-06	3.822E-06	1.892E-06	7.565E-07	4.083E-07	2.582E-07	1.798E-07	1.337E-07	1.040E-07	8.385E-08
NNW	3.603E-05	1.173E-05	6.226E-06	3.118E-06	1.262E-06	6.865E-07	4.365E-07	3.053E-07	2.277E-07	1.777E-07	1.436E-07
N	4.041E-05	1.303E-05	7.101E-06	3.639E-06	1.462E-06	7.950E-07	5.053E-07	3.533E-07	2.634E-07	2.055E-07	1.659E-07
NNE	2.238E-05	7.316E-06	3.914E-06	1.967E-06	7.935E-07	4.306E-07	2.733E-07	1.909E-07	1.421E-07	1.108E-07	8.943E-08
NE	1.204E-05	3.957E-06	2.133E-06	1.074E-06	4.312E-07	2.333E-07	1.477E-07	1.050E-07	7.660E-08	5.966E-08	4.809E-08
ENE	1.130E-05	3.669E-06	2.001E-06	1.017E-06	4.113E-07	2.234E-07	1.419E-07	9.911E-08	7.382E-08	5.757E-08	4.646E-08
E	1.012E-05	3.330E-06	1.821E-06	9.244E-07	3.711E-07	2.006E-07	1.269E-07	8.840E-08	6.569E-08	5.113E-08	4.119E-08
ESE	1.642E-05	5.635E-06	3.046E-06	1.526E-06	6.020E-07	3.216E-07	2.017E-07	1.395E-07	1.030E-07	7.978E-08	6.399E-08
SE	2.752E-05	9.336E-06	5.035E-06	2.525E-06	1.001E-06	5.363E-07	3.370E-07	2.335E-07	1.728E-07	1.339E-07	1.075E-07
SSE	3.915E-05	1.296E-05	6.972E-06	3.504E-06	1.396E-06	7.511E-07	4.734E-07	3.288E-07	2.437E-07	1.893E-07	1.522E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.121E-08	4.080E-08	2.593E-08	1.438E-08	9.464E-09	6.817E-09	5.199E-09	4.124E-09	3.366E-09	2.808E-09	2.383E-09
SSW	4.747E-08	2.399E-08	1.531E-08	8.535E-09	5.631E-09	4.062E-09	3.099E-09	2.458E-09	2.006E-09	1.672E-09	1.418E-09
SW	2.931E-08	1.473E-08	9.363E-09	5.186E-09	3.401E-09	2.443E-09	1.858E-09	1.470E-09	1.197E-09	9.964E-10	8.437E-10
WSW	2.195E-08	1.078E-08	6.745E-09	3.664E-09	2.379E-09	1.698E-09	1.286E-09	1.015E-09	8.254E-10	6.867E-10	5.817E-10
W	1.915E-08	9.459E-09	5.947E-09	3.255E-09	2.126E-09	1.525E-09	1.161E-09	9.207E-10	7.521E-10	6.284E-10	5.345E-10
WNW	2.854E-08	1.411E-08	8.880E-09	4.870E-09	3.187E-09	2.291E-09	1.746E-09	1.386E-09	1.133E-09	9.478E-10	8.067E-10
NW	6.943E-08	3.569E-08	2.306E-08	1.309E-08	8.748E-09	6.379E-09	4.913E-09	3.930E-09	3.232E-09	2.714E-09	2.317E-09
NNW	1.191E-07	6.151E-08	3.984E-08	2.265E-08	1.512E-08	1.101E-08	8.464E-09	6.756E-09	5.544E-09	4.645E-09	3.957E-09
N	1.376E-07	7.095E-08	4.590E-08	2.604E-08	1.736E-08	1.262E-08	9.697E-09	7.735E-09	6.343E-09	5.313E-09	4.524E-09
NNE	7.411E-08	3.816E-08	2.466E-08	1.398E-08	9.319E-09	6.777E-09	5.207E-09	4.155E-09	3.408E-09	2.856E-09	2.433E-09
NE	3.982E-08	2.044E-08	1.319E-08	7.459E-09	4.965E-09	3.608E-09	2.769E-09	2.208E-09	1.810E-09	1.515E-09	1.290E-09
ENE	3.850E-08	1.982E-08	1.281E-08	7.261E-09	4.839E-09	3.521E-09	2.702E-09	2.162E-09	1.775E-09	1.489E-09	1.270E-09
E	3.409E-08	1.745E-08	1.124E-08	6.354E-09	4.230E-09	3.077E-09	2.367E-09	1.892E-09	1.555E-09	1.306E-09	1.115E-09
ESE	5.274E-08	2.660E-08	1.695E-08	9.435E-09	6.216E-09	4.483E-09	3.423E-09	2.718E-09	2.220E-09	1.854E-09	1.575E-09
SE	8.874E-08	4.493E-08	2.871E-08	1.603E-08	1.058E-08	7.637E-09	5.836E-09	4.636E-09	3.789E-09	3.165E-09	2.690E-09
SSE	1.257E-07	6.399E-08	4.101E-08	2.298E-08	1.519E-08	1.098E-08	8.387E-09	6.659E-09	5.439E-09	4.538E-09	3.852E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.722E-06	1.080E-06	3.259E-07	1.621E-07	9.950E-08	4.317E-08	1.476E-08	6.876E-09	4.143E-09	2.816E-09
SSW	2.712E-06	6.171E-07	1.881E-07	9.415E-08	5.805E-08	2.535E-08	8.750E-09	4.095E-09	2.469E-09	1.677E-09
SW	1.694E-06	3.867E-07	1.172E-07	5.841E-08	3.590E-08	1.559E-08	5.321E-09	2.465E-09	1.477E-09	9.993E-10
WSW	1.390E-06	3.118E-07	9.143E-08	4.467E-08	2.706E-08	1.147E-08	3.777E-09	1.715E-09	1.020E-09	6.889E-10
W	1.220E-06	2.713E-07	7.954E-08	3.889E-08	2.358E-08	1.005E-08	3.351E-09	1.540E-09	9.251E-10	6.303E-10
WNW	1.810E-06	4.029E-07	1.183E-07	5.790E-08	3.514E-08	1.499E-08	5.013E-09	2.312E-09	1.393E-09	9.505E-10
NW	3.745E-06	8.540E-07	2.669E-07	1.356E-07	8.449E-08	3.758E-08	1.338E-08	6.424E-09	3.945E-09	2.721E-09
NNW	6.067E-06	1.419E-06	4.507E-07	2.308E-07	1.446E-07	6.467E-08	2.312E-08	1.109E-08	6.782E-09	4.656E-09
N	6.866E-06	1.643E-06	5.218E-07	2.670E-07	1.671E-07	7.462E-08	2.660E-08	1.272E-08	7.765E-09	5.326E-09
NNE	3.804E-06	8.929E-07	2.823E-07	1.441E-07	9.010E-08	4.015E-08	1.428E-08	6.827E-09	4.171E-09	2.863E-09
NE	2.068E-06	4.861E-07	1.527E-07	7.769E-08	4.845E-08	2.153E-08	7.624E-09	3.634E-09	2.217E-09	1.519E-09
ENE	1.934E-06	4.624E-07	1.465E-07	7.486E-08	4.680E-08	2.085E-08	7.417E-09	3.547E-09	2.170E-09	1.493E-09
E	1.758E-06	4.183E-07	1.312E-07	6.663E-08	4.150E-08	1.839E-08	6.497E-09	3.101E-09	1.899E-09	1.309E-09
ESE	2.946E-06	6.827E-07	2.088E-07	1.046E-07	6.450E-08	2.812E-08	9.675E-09	4.521E-09	2.730E-09	1.859E-09
SE	4.875E-06	1.133E-06	3.488E-07	1.753E-07	1.084E-07	4.746E-08	1.642E-08	7.701E-09	4.656E-09	3.174E-09
SSE	6.761E-06	1.578E-06	4.896E-07	2.473E-07	1.534E-07	6.750E-08	2.353E-08	1.106E-08	6.688E-09	4.551E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.531E-05	8.308E-06	4.353E-06	2.133E-06	8.101E-07	4.201E-07	2.570E-07	1.740E-07	1.261E-07	9.600E-08	7.580E-08
SSW	1.468E-05	4.812E-06	2.492E-06	1.214E-06	4.643E-07	2.420E-07	1.486E-07	1.009E-07	7.339E-08	5.601E-08	4.433E-08
SW	8.997E-06	2.992E-06	1.560E-06	7.625E-07	2.906E-07	1.510E-07	9.251E-08	6.270E-08	4.549E-08	3.466E-08	2.739E-08
WSW	7.141E-06	2.453E-06	1.281E-06	6.228E-07	2.322E-07	1.187E-07	7.181E-08	4.815E-08	3.462E-08	2.616E-08	2.053E-08
W	6.324E-06	2.169E-06	1.121E-06	5.418E-07	2.018E-07	1.031E-07	6.238E-08	4.184E-08	3.008E-08	2.274E-08	1.785E-08
WNW	9.513E-06	3.219E-06	1.662E-06	8.042E-07	2.998E-07	1.534E-07	9.283E-08	6.230E-08	4.482E-08	3.390E-08	2.661E-08
NW	2.132E-05	6.710E-06	3.414E-06	1.661E-06	6.456E-07	3.404E-07	2.109E-07	1.443E-07	1.056E-07	8.101E-08	6.442E-08
NNW	3.414E-05	1.073E-05	5.564E-06	2.739E-06	1.078E-06	5.730E-07	3.571E-07	2.455E-07	1.802E-07	1.387E-07	1.106E-07
N	3.828E-05	1.192E-05	6.347E-06	3.171E-06	1.249E-06	6.636E-07	4.134E-07	2.840E-07	2.084E-07	1.603E-07	1.277E-07
NNE	2.120E-05	6.694E-06	3.498E-06	1.728E-06	6.778E-07	3.594E-07	2.235E-07	1.534E-07	1.125E-07	8.644E-08	6.883E-08
NE	1.141E-05	3.621E-06	1.907E-06	9.436E-07	3.684E-07	1.947E-07	1.209E-07	8.279E-08	6.061E-08	4.653E-08	3.702E-08
ENE	1.070E-05	3.356E-06	1.788E-06	8.934E-07	3.512E-07	1.864E-07	1.160E-07	7.958E-08	5.834E-08	4.484E-08	3.571E-08
E	9.583E-06	3.046E-06	1.627E-06	8.116E-07	3.166E-07	1.671E-07	1.036E-07	7.088E-08	5.182E-08	3.974E-08	3.158E-08
ESE	1.556E-05	5.154E-06	2.721E-06	1.340E-06	5.137E-07	2.680E-07	1.647E-07	1.119E-07	8.134E-08	6.207E-08	4.911E-08
SE	2.607E-05	8.538E-06	4.497E-06	2.217E-06	8.539E-07	4.469E-07	2.752E-07	1.873E-07	1.364E-07	1.042E-07	8.256E-08
SSE	3.708E-05	1.185E-05	6.230E-06	3.079E-06	1.193E-06	6.268E-07	3.872E-07	2.643E-07	1.928E-07	1.476E-07	1.171E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.162E-08	2.955E-08	1.806E-08	9.444E-09	5.942E-09	4.128E-09	3.054E-09	2.359E-09	1.881E-09	1.537E-09	1.279E-09
SSW	3.611E-08	1.744E-08	1.072E-08	5.646E-09	3.570E-09	2.490E-09	1.847E-09	1.430E-09	1.143E-09	9.351E-10	7.796E-10
SW	2.227E-08	1.069E-08	6.539E-09	3.418E-09	2.147E-09	1.489E-09	1.100E-09	8.488E-10	6.761E-10	5.518E-10	4.590E-10
WSW	1.658E-08	7.758E-09	4.658E-09	2.375E-09	1.468E-09	1.006E-09	7.362E-10	5.636E-10	4.461E-10	3.621E-10	2.998E-10
W	1.443E-08	6.781E-09	4.086E-09	2.094E-09	1.299E-09	8.934E-10	6.557E-10	5.034E-10	3.994E-10	3.249E-10	2.696E-10
WNW	2.153E-08	1.013E-08	6.112E-09	3.140E-09	1.954E-09	1.347E-09	9.902E-10	7.614E-10	6.050E-10	4.928E-10	4.094E-10
NW	5.269E-08	2.586E-08	1.607E-08	8.605E-09	5.501E-09	3.870E-09	2.892E-09	2.253E-09	1.810E-09	1.488E-09	1.247E-09
NNW	9.060E-08	4.472E-08	2.790E-08	1.499E-08	9.588E-09	6.746E-09	5.041E-09	3.926E-09	3.152E-09	2.590E-09	2.168E-09
N	1.046E-07	5.156E-08	3.211E-08	1.720E-08	1.098E-08	7.711E-09	5.752E-09	4.474E-09	3.588E-09	2.946E-09	2.463E-09
NNE	5.636E-08	2.772E-08	1.725E-08	9.231E-09	5.891E-09	4.137E-09	3.087E-09	2.401E-09	1.926E-09	1.582E-09	1.323E-09
NE	3.028E-08	1.485E-08	9.224E-09	4.925E-09	3.140E-09	2.203E-09	1.643E-09	1.277E-09	1.024E-09	8.402E-10	7.025E-10
ENE	2.923E-08	1.436E-08	8.924E-09	4.768E-09	3.037E-09	2.130E-09	1.587E-09	1.234E-09	9.891E-10	8.118E-10	6.787E-10
E	2.581E-08	1.260E-08	7.797E-09	4.142E-09	2.630E-09	1.840E-09	1.369E-09	1.063E-09	8.512E-10	6.980E-10	5.833E-10
ESE	3.998E-08	1.924E-08	1.179E-08	6.177E-09	3.888E-09	2.702E-09	1.999E-09	1.545E-09	1.232E-09	1.006E-09	8.380E-10
SE	6.728E-08	3.250E-08	1.997E-08	1.051E-08	6.626E-09	4.612E-09	3.416E-09	2.642E-09	2.108E-09	1.724E-09	1.436E-09
SSE	9.561E-08	4.650E-08	2.870E-08	1.519E-08	9.622E-09	6.718E-09	4.989E-09	3.865E-09	3.090E-09	2.529E-09	2.109E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	4.245E-06	9.308E-07	2.673E-07	1.283E-07	7.653E-08	3.157E-08	9.802E-09	4.182E-09	2.375E-09	1.543E-09
SSW	2.440E-06	5.322E-07	1.544E-07	7.464E-08	4.475E-08	1.860E-08	5.851E-09	2.521E-09	1.440E-09	9.390E-10
SW	1.524E-06	3.334E-07	9.619E-08	4.628E-08	2.765E-08	1.142E-08	3.547E-09	1.509E-09	8.548E-10	5.542E-10
WSW	1.249E-06	2.685E-07	7.486E-08	3.527E-08	2.074E-08	8.342E-09	2.479E-09	1.021E-09	5.681E-10	3.639E-10
W	1.096E-06	2.335E-07	6.503E-08	3.064E-08	1.803E-08	7.283E-09	2.183E-09	9.065E-10	5.073E-10	3.265E-10
WNW	1.627E-06	3.468E-07	9.676E-08	4.565E-08	2.689E-08	1.088E-08	3.273E-09	1.366E-09	7.672E-10	4.952E-10
NW	3.367E-06	7.357E-07	2.188E-07	1.073E-07	6.499E-08	2.747E-08	8.885E-09	3.914E-09	2.267E-09	1.494E-09
NNW	5.457E-06	1.223E-06	3.700E-07	1.830E-07	1.115E-07	4.744E-08	1.546E-08	6.822E-09	3.950E-09	2.601E-09
N	6.174E-06	1.416E-06	4.284E-07	2.117E-07	1.288E-07	5.471E-08	1.775E-08	7.799E-09	4.502E-09	2.957E-09
NNE	3.421E-06	7.697E-07	2.317E-07	1.142E-07	6.943E-08	2.943E-08	9.528E-09	4.185E-09	2.416E-09	1.588E-09
NE	1.860E-06	4.190E-07	1.253E-07	6.158E-08	3.734E-08	1.578E-08	5.087E-09	2.229E-09	1.285E-09	8.436E-10
ENE	1.739E-06	3.984E-07	1.202E-07	5.927E-08	3.601E-08	1.525E-08	4.922E-09	2.155E-09	1.242E-09	8.150E-10
E	1.580E-06	3.602E-07	1.075E-07	5.266E-08	3.186E-08	1.340E-08	4.282E-09	1.863E-09	1.070E-09	7.009E-10
ESE	2.648E-06	5.881E-07	1.711E-07	8.273E-08	4.957E-08	2.053E-08	6.406E-09	2.737E-09	1.555E-09	1.011E-09
SE	4.382E-06	9.760E-07	2.859E-07	1.387E-07	8.331E-08	3.466E-08	1.088E-08	4.670E-09	2.660E-09	1.731E-09
SSE	6.079E-06	1.360E-06	4.019E-07	1.960E-07	1.182E-07	4.950E-08	1.572E-08	6.801E-09	3.891E-09	2.540E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.454E-07	4.917E-08	2.525E-08	1.200E-08	4.312E-09	2.138E-09	1.259E-09	8.244E-10	5.801E-10	4.299E-10	3.313E-10
SSW	6.328E-08	2.140E-08	1.099E-08	5.224E-09	1.876E-09	9.305E-10	5.479E-10	3.588E-10	2.525E-10	1.871E-10	1.442E-10
SW	3.548E-08	1.200E-08	6.160E-09	2.929E-09	1.052E-09	5.217E-10	3.072E-10	2.012E-10	1.415E-10	1.049E-10	8.083E-11
WSW	4.530E-08	1.532E-08	7.866E-09	3.739E-09	1.343E-09	6.661E-10	3.922E-10	2.568E-10	1.807E-10	1.339E-10	1.032E-10
W	5.106E-08	1.727E-08	8.866E-09	4.215E-09	1.514E-09	7.508E-10	4.421E-10	2.895E-10	2.037E-10	1.510E-10	1.163E-10
WNW	7.413E-08	2.507E-08	1.287E-08	6.119E-09	2.198E-09	1.090E-09	6.418E-10	4.202E-10	2.957E-10	2.191E-10	1.689E-10
NW	1.243E-07	4.204E-08	2.158E-08	1.026E-08	3.686E-09	1.828E-09	1.076E-09	7.047E-10	4.959E-10	3.675E-10	2.832E-10
NNW	1.560E-07	4.936E-08	2.535E-08	1.205E-08	4.328E-09	2.146E-09	1.264E-09	8.276E-10	5.823E-10	4.316E-10	3.326E-10
N	1.548E-07	5.236E-08	2.688E-08	1.278E-08	4.591E-09	2.277E-09	1.341E-09	8.778E-10	6.176E-10	4.577E-10	3.527E-10
NNE	8.921E-08	3.017E-08	1.549E-08	7.364E-09	2.645E-09	1.312E-09	7.724E-10	5.058E-10	3.559E-10	2.637E-10	2.032E-10
NE	4.132E-08	1.397E-08	7.175E-09	3.411E-09	1.225E-09	6.076E-10	3.578E-10	2.343E-10	1.648E-10	1.222E-10	9.414E-11
ENE	4.103E-08	1.388E-08	7.124E-09	3.387E-09	1.217E-09	6.033E-10	3.553E-10	2.326E-10	1.637E-10	1.213E-10	9.348E-11
E	4.812E-08	1.627E-08	8.355E-09	3.972E-09	1.427E-09	7.076E-10	4.166E-10	2.728E-10	1.920E-10	1.423E-10	1.096E-10
ESE	1.012E-07	3.420E-08	1.756E-08	8.349E-09	2.999E-09	1.487E-09	8.758E-10	5.734E-10	4.035E-10	2.990E-10	2.304E-10
SE	1.888E-07	6.386E-08	3.279E-08	1.559E-08	5.599E-09	2.777E-09	1.635E-09	1.071E-09	7.533E-10	5.583E-10	4.302E-10
SSE	1.970E-07	6.662E-08	3.421E-08	1.626E-08	5.842E-09	2.897E-09	1.706E-09	1.117E-09	7.859E-10	5.825E-10	4.489E-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	2.632E-10	1.169E-10	7.082E-11	3.580E-11	2.167E-11	1.453E-11	1.041E-11	7.816E-12	6.077E-12	4.855E-12	3.962E-12
SSW	1.145E-10	5.088E-11	3.082E-11	1.558E-11	9.429E-12	6.322E-12	4.530E-12	3.402E-12	2.645E-12	2.113E-12	1.724E-12
SW	6.422E-11	2.853E-11	1.728E-11	8.735E-12	5.287E-12	3.545E-12	2.540E-12	1.907E-12	1.483E-12	1.185E-12	9.668E-13
WSW	8.199E-11	3.642E-11	2.206E-11	1.115E-11	6.750E-12	4.526E-12	3.243E-12	2.435E-12	1.893E-12	1.512E-12	1.234E-12
W	9.242E-11	4.106E-11	2.487E-11	1.257E-11	7.608E-12	5.101E-12	3.655E-12	2.745E-12	2.134E-12	1.705E-12	1.391E-12
WNW	1.342E-10	5.960E-11	3.610E-11	1.825E-11	1.104E-11	7.405E-12	5.306E-12	3.984E-12	3.098E-12	2.475E-12	2.020E-12
NW	2.250E-10	9.994E-11	6.054E-11	3.060E-11	1.852E-11	1.242E-11	8.898E-12	6.682E-12	5.195E-12	4.150E-12	3.387E-12
NNW	2.642E-10	1.174E-10	7.110E-11	3.594E-11	2.175E-11	1.458E-11	1.045E-11	7.846E-12	6.101E-12	4.873E-12	3.978E-12
N	2.802E-10	1.245E-10	7.541E-11	3.812E-11	2.307E-11	1.547E-11	1.108E-11	8.322E-12	6.471E-12	5.169E-12	4.219E-12
NNE	1.615E-10	7.173E-11	4.345E-11	2.196E-11	1.329E-11	8.912E-12	6.386E-12	4.795E-12	3.728E-12	2.978E-12	2.431E-12
NE	7.479E-11	3.322E-11	2.013E-11	1.017E-11	6.157E-12	4.128E-12	2.958E-12	2.221E-12	1.727E-12	1.380E-12	1.126E-12
ENE	7.426E-11	3.299E-11	1.998E-11	1.010E-11	6.114E-12	4.099E-12	2.937E-12	2.206E-12	1.715E-12	1.370E-12	1.118E-12
E	8.710E-11	3.869E-11	2.344E-11	1.185E-11	7.170E-12	4.807E-12	3.445E-12	2.587E-12	2.011E-12	1.607E-12	1.311E-12
ESE	1.831E-10	8.133E-11	4.926E-11	2.490E-11	1.507E-11	1.010E-11	7.241E-12	5.437E-12	4.227E-12	3.377E-12	2.756E-12
SE	3.418E-10	1.518E-10	9.197E-11	4.649E-11	2.814E-11	1.886E-11	1.352E-11	1.015E-11	7.892E-12	6.304E-12	5.146E-12
SSE	3.566E-10	1.584E-10	9.596E-11	4.850E-11	2.935E-11	1.968E-11	1.410E-11	1.059E-11	8.234E-12	6.577E-12	5.369E-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	2.468E-08	5.055E-09	1.320E-09	5.927E-10	3.353E-10	1.289E-10	3.730E-11	1.478E-11	7.895E-12	4.886E-12
SSW	1.074E-08	2.200E-09	5.743E-10	2.579E-10	1.459E-10	5.611E-11	1.623E-11	6.434E-12	3.436E-12	2.127E-12
SW	6.021E-09	1.233E-09	3.220E-10	1.446E-10	8.181E-11	3.146E-11	9.101E-12	3.607E-12	1.926E-12	1.192E-12
WSW	7.688E-09	1.575E-09	4.111E-10	1.846E-10	1.045E-10	4.017E-11	1.162E-11	4.606E-12	2.459E-12	1.522E-12
W	8.666E-09	1.775E-09	4.634E-10	2.081E-10	1.177E-10	4.528E-11	1.310E-11	5.191E-12	2.772E-12	1.716E-12
WNW	1.258E-08	2.577E-09	6.727E-10	3.021E-10	1.709E-10	6.572E-11	1.901E-11	7.536E-12	4.024E-12	2.491E-12
NW	2.110E-08	4.321E-09	1.128E-09	5.066E-10	2.866E-10	1.102E-10	3.189E-11	1.264E-11	6.749E-12	4.177E-12
NNW	2.477E-08	5.074E-09	1.325E-09	5.950E-10	3.366E-10	1.294E-10	3.744E-11	1.484E-11	7.925E-12	4.905E-12
N	2.628E-08	5.382E-09	1.405E-09	6.311E-10	3.570E-10	1.373E-10	3.972E-11	1.574E-11	8.406E-12	5.203E-12
NNE	1.514E-08	3.101E-09	8.096E-10	3.636E-10	2.057E-10	7.910E-11	2.288E-11	9.070E-12	4.843E-12	2.998E-12
NE	7.013E-09	1.436E-09	3.750E-10	1.684E-10	9.528E-11	3.664E-11	1.060E-11	4.201E-12	2.243E-12	1.389E-12
ENE	6.964E-09	1.426E-09	3.724E-10	1.672E-10	9.461E-11	3.638E-11	1.053E-11	4.172E-12	2.228E-12	1.379E-12
E	8.167E-09	1.673E-09	4.367E-10	1.961E-10	1.110E-10	4.267E-11	1.234E-11	4.892E-12	2.613E-12	1.617E-12
ESE	1.717E-08	3.516E-09	9.179E-10	4.123E-10	2.332E-10	8.969E-11	2.595E-11	1.028E-11	5.491E-12	3.399E-12
SE	3.205E-08	6.564E-09	1.714E-09	7.696E-10	4.354E-10	1.674E-10	4.844E-11	1.920E-11	1.025E-11	6.346E-12
SSE	3.344E-08	6.849E-09	1.788E-09	8.030E-10	4.543E-10	1.747E-10	5.054E-11	2.003E-11	1.070E-11	6.620E-12

VENTS GROUND LEVEL RELEASES - JAN-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	4.200E-06	4.185E-06	3.725E-06	2.147E-08
A	SITE BOUNDARY	SSW	0.82	1327.	2.224E-06	2.214E-06	1.969E-06	8.622E-09
A	SITE BOUNDARY	SW	0.98	1569.	9.261E-07	9.214E-07	8.109E-07	3.125E-09
A	SITE BOUNDARY	WSW	0.93	1489.	8.602E-07	8.572E-07	7.560E-07	4.569E-09
A	SITE BOUNDARY	W	0.91	1468.	7.757E-07	7.737E-07	6.826E-07	5.344E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.076E-06	1.072E-06	9.447E-07	7.222E-09
A	SITE BOUNDARY	NW	0.81	1307.	3.160E-06	3.149E-06	2.800E-06	1.762E-08
A	SITE BOUNDARY	NNW	0.69	1106.	7.148E-06	7.121E-06	6.394E-06	2.935E-08
A	SITE BOUNDARY	N	0.67	1086.	8.325E-06	8.295E-06	7.454E-06	3.210E-08
A	SITE BOUNDARY	NNE	0.60	965.	5.533E-06	5.515E-06	4.990E-06	2.241E-08
A	SITE BOUNDARY	NE	0.62	1005.	2.823E-06	2.813E-06	2.538E-06	9.757E-09
A	SITE BOUNDARY	ENE	0.59	945.	2.876E-06	2.868E-06	2.597E-06	1.067E-08
A	SITE BOUNDARY	E	0.53	845.	3.085E-06	3.078E-06	2.807E-06	1.503E-08
A	SITE BOUNDARY	ESE	0.54	865.	5.045E-06	5.033E-06	4.583E-06	3.040E-08
A	SITE BOUNDARY	SE	0.65	1046.	6.271E-06	6.254E-06	5.628E-06	4.170E-08
A	SITE BOUNDARY	SSE	0.81	1307.	5.800E-06	5.776E-06	5.138E-06	2.793E-08
A	NEAR. RESIDENCE	SSW	1.80	2897.	3.674E-07	3.638E-07	3.063E-07	1.200E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	4.736E-07	4.704E-07	4.060E-07	1.502E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.812E-07	3.793E-07	3.270E-07	1.918E-09
A	NEAR. RESIDENCE	W	1.00	1609.	6.195E-07	6.177E-07	5.418E-07	4.215E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.052E-07	3.037E-07	2.575E-07	1.875E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.450E-06	2.440E-06	2.157E-06	1.348E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	7.718E-07	7.637E-07	6.402E-07	2.429E-09
A	NEAR. RESIDENCE	N	3.00	4828.	3.593E-07	3.533E-07	2.840E-07	8.778E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	2.381E-07	2.346E-07	1.905E-07	6.454E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	3.171E-07	3.144E-07	2.658E-07	8.946E-10
A	NEAR. RESIDENCE	E	1.80	2897.	2.525E-07	2.505E-07	2.106E-07	9.128E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.217E-07	2.193E-07	1.798E-07	9.637E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	4.432E-07	4.388E-07	3.626E-07	2.211E-09
A	NEAREST COW	NNW	3.50	5633.	2.322E-07	2.277E-07	1.802E-07	5.822E-10
A	NEAREST GARDEN	SSW	1.80	2897.	3.674E-07	3.638E-07	3.063E-07	1.200E-09
A	NEAREST GARDEN	SW	2.20	3541.	1.495E-07	1.478E-07	1.222E-07	4.154E-10
A	NEAREST GARDEN	WSW	1.30	2092.	3.812E-07	3.793E-07	3.270E-07	1.918E-09
A	NEAREST GARDEN	WNW	2.30	3702.	1.371E-07	1.361E-07	1.118E-07	7.810E-10
A	NEAREST GARDEN	NW	0.90	1448.	2.450E-06	2.440E-06	2.157E-06	1.348E-08
A	NEAREST GARDEN	N	3.00	4828.	3.593E-07	3.533E-07	2.840E-07	8.778E-10
A	NEAREST GARDEN	ENE	1.70	2736.	3.171E-07	3.144E-07	2.658E-07	8.946E-10
A	NEAREST GARDEN	E	1.80	2897.	2.525E-07	2.505E-07	2.106E-07	9.128E-10
A	NEAREST GARDEN	ESE	2.60	4184.	1.884E-07	1.861E-07	1.515E-07	7.991E-10

Atmospheric Diffusion Estimates

Elevated Releases

January-March 1996

ERP ELEVATED STACK RELEASES - JAN-MAR 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.594E-08	6.271E-08	9.650E-08	1.070E-07	1.019E-07	8.415E-08	6.798E-08	5.541E-08	4.591E-08	5.013E-08	5.080E-08
SSW	1.084E-09	3.618E-09	1.306E-08	2.185E-08	2.581E-08	2.267E-08	1.883E-08	1.986E-08	1.952E-08	1.666E-08	1.440E-08
SW	1.902E-16	2.635E-10	1.090E-08	2.954E-08	4.764E-08	3.165E-08	2.239E-08	1.670E-08	1.299E-08	1.044E-08	8.607E-09
WSW	3.498E-11	2.695E-09	1.966E-08	4.521E-08	6.437E-08	3.896E-08	2.611E-08	1.880E-08	1.426E-08	1.124E-08	9.138E-09
W	1.301E-08	4.510E-08	6.979E-08	6.801E-08	5.098E-08	3.005E-08	1.984E-08	1.415E-08	1.066E-08	8.359E-09	6.766E-09
WNW	1.989E-10	1.529E-08	1.383E-07	2.355E-07	2.405E-07	1.387E-07	9.027E-08	6.527E-08	4.956E-08	3.847E-08	3.087E-08
NW	3.462E-08	3.957E-08	1.049E-07	1.998E-07	2.734E-07	1.562E-07	1.014E-07	7.263E-08	5.497E-08	4.287E-08	3.456E-08
NNW	2.295E-08	7.305E-08	8.580E-08	8.978E-08	1.044E-07	9.785E-08	8.700E-08	7.399E-08	6.242E-08	4.873E-08	3.934E-08
N	5.203E-08	4.375E-08	4.341E-08	4.186E-08	4.268E-08	4.071E-08	3.683E-08	3.201E-08	2.792E-08	2.455E-08	2.178E-08
NNE	2.099E-09	1.791E-08	3.517E-08	4.397E-08	4.944E-08	4.590E-08	4.034E-08	3.507E-08	3.058E-08	2.689E-08	2.386E-08
NE	3.498E-11	2.667E-09	8.625E-09	1.340E-08	1.802E-08	1.817E-08	1.676E-08	1.505E-08	1.344E-08	1.204E-08	1.085E-08
ENE	1.135E-16	1.897E-10	3.728E-09	8.091E-09	1.186E-08	1.175E-08	1.063E-08	9.415E-09	8.343E-09	7.442E-09	6.696E-09
E	3.498E-11	2.567E-09	7.014E-09	9.884E-09	1.196E-08	1.117E-08	9.889E-09	8.657E-09	7.611E-09	6.751E-09	6.048E-09
ESE	3.137E-09	2.709E-08	4.381E-08	4.530E-08	4.208E-08	3.558E-08	2.956E-08	2.476E-08	2.103E-08	1.814E-08	1.587E-08
SE	1.546E-08	5.876E-08	1.008E-07	1.184E-07	1.152E-07	9.483E-08	7.603E-08	6.153E-08	5.065E-08	4.244E-08	3.614E-08
SSE	4.825E-08	9.349E-08	1.287E-07	1.272E-07	1.107E-07	8.919E-08	7.144E-08	5.810E-08	4.818E-08	6.396E-08	7.428E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.398E-08	2.546E-08	1.614E-08	8.955E-09	5.999E-09	4.390E-09	3.377E-09	2.707E-09	2.243E-09	1.900E-09	1.635E-09
SSW	1.286E-08	7.914E-09	5.012E-09	2.774E-09	1.850E-09	1.343E-09	1.031E-09	8.254E-10	6.810E-10	5.750E-10	4.943E-10
SW	7.584E-09	4.552E-09	2.893E-09	1.607E-09	1.071E-09	7.800E-10	6.019E-10	4.815E-10	3.971E-10	3.351E-10	2.880E-10
WSW	7.771E-09	4.257E-09	2.754E-09	1.535E-09	1.004E-09	7.242E-10	5.550E-10	4.435E-10	3.654E-10	3.081E-10	2.646E-10
W	5.619E-09	2.892E-09	1.898E-09	1.087E-09	7.289E-10	5.285E-10	4.064E-10	3.257E-10	2.691E-10	2.275E-10	1.959E-10
WNW	2.554E-08	1.294E-08	8.212E-09	4.532E-09	2.963E-09	2.132E-09	1.631E-09	1.300E-09	1.068E-09	8.982E-10	7.696E-10
NW	2.877E-08	1.498E-08	9.734E-09	5.558E-09	3.682E-09	2.680E-09	2.088E-09	1.684E-09	1.395E-09	1.182E-09	1.020E-09
NNW	3.300E-08	1.755E-08	1.125E-08	6.350E-09	4.254E-09	3.123E-09	2.435E-09	1.974E-09	1.652E-09	1.407E-09	1.219E-09
N	1.953E-08	1.290E-08	1.110E-08	8.849E-09	6.972E-09	5.467E-09	4.276E-09	3.470E-09	2.895E-09	2.468E-09	2.141E-09
NNE	2.722E-08	3.455E-08	2.227E-08	1.267E-08	8.528E-09	6.285E-09	4.904E-09	3.980E-09	3.323E-09	2.835E-09	2.461E-09
NE	1.298E-08	2.127E-08	1.387E-08	8.025E-09	5.461E-09	4.060E-09	3.226E-09	2.650E-09	2.231E-09	1.910E-09	1.663E-09
ENE	7.846E-09	1.718E-08	1.153E-08	6.907E-09	4.803E-09	3.626E-09	3.026E-09	2.565E-09	2.162E-09	1.860E-09	1.627E-09
E	7.027E-09	1.518E-08	1.020E-08	6.116E-09	4.258E-09	3.217E-09	2.560E-09	2.111E-09	1.854E-09	1.641E-09	1.437E-09
ESE	1.672E-08	2.192E-08	1.460E-08	8.641E-09	5.963E-09	4.473E-09	3.538E-09	2.903E-09	2.446E-09	2.104E-09	1.839E-09
SE	3.123E-08	1.807E-08	1.301E-08	8.284E-09	5.700E-09	4.247E-09	3.332E-09	2.709E-09	2.239E-09	1.893E-09	1.630E-09
SSE	6.270E-08	3.369E-08	2.140E-08	1.194E-08	7.943E-09	5.802E-09	4.494E-09	3.625E-09	3.011E-09	2.557E-09	2.211E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	9.367E-08	9.513E-08	6.726E-08	5.023E-08	4.807E-08	2.543E-08	9.238E-09	4.414E-09	2.722E-09	1.904E-09
SSW	1.487E-08	2.353E-08	2.027E-08	1.853E-08	1.450E-08	7.722E-09	2.861E-09	1.354E-09	8.292E-10	5.765E-10
SW	1.682E-08	3.651E-08	2.258E-08	1.308E-08	8.770E-09	4.489E-09	1.654E-09	7.863E-10	4.837E-10	3.360E-10
WSW	2.725E-08	4.882E-08	2.662E-08	1.441E-08	9.256E-09	4.370E-09	1.570E-09	7.312E-10	4.456E-10	3.090E-10
W	6.351E-08	4.546E-08	2.028E-08	1.078E-08	6.813E-09	3.056E-09	1.108E-09	5.331E-10	3.272E-10	2.281E-10
WNW	1.542E-07	1.941E-07	9.318E-08	4.982E-08	3.115E-08	1.364E-08	4.652E-09	2.153E-09	1.306E-09	9.009E-10
NW	1.325E-07	2.049E-07	1.045E-07	5.540E-08	3.488E-08	1.571E-08	5.652E-09	2.711E-09	1.689E-09	1.185E-09
NNW	8.474E-08	9.823E-08	8.469E-08	6.051E-08	3.977E-08	1.818E-08	6.507E-09	3.150E-09	1.983E-09	1.410E-09
N	4.280E-08	4.162E-08	3.593E-08	2.781E-08	2.177E-08	1.357E-08	8.514E-09	5.392E-09	3.481E-09	2.473E-09
NNE	3.524E-08	4.665E-08	3.971E-08	3.046E-08	2.600E-08	2.746E-08	1.296E-08	6.331E-09	3.993E-09	2.841E-09
NE	9.423E-09	1.706E-08	1.645E-08	1.337E-08	1.199E-08	1.614E-08	8.185E-09	4.100E-09	2.655E-09	1.914E-09
ENE	4.881E-09	1.097E-08	1.044E-08	8.306E-09	7.343E-09	1.260E-08	7.000E-09	3.700E-09	2.543E-09	1.863E-09
E	7.301E-09	1.112E-08	9.739E-09	7.582E-09	6.619E-09	1.115E-08	6.198E-09	3.232E-09	2.141E-09	1.628E-09
ESE	4.076E-08	3.991E-08	2.924E-08	2.099E-08	1.686E-08	1.751E-08	8.774E-09	4.497E-09	2.911E-09	2.107E-09
SE	9.929E-08	1.069E-07	7.524E-08	5.063E-08	3.619E-08	1.874E-08	8.186E-09	4.269E-09	2.708E-09	1.898E-09
SSE	1.202E-07	1.048E-07	7.084E-08	5.703E-08	6.693E-08	3.467E-08	1.227E-08	5.850E-09	3.639E-09	2.563E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.594E-08	6.268E-08	9.644E-08	1.069E-07	1.017E-07	8.396E-08	6.778E-08	5.520E-08	4.570E-08	4.984E-08	5.045E-08
SSW	1.083E-09	3.616E-09	1.305E-08	2.182E-08	2.577E-08	2.261E-08	1.877E-08	1.978E-08	1.942E-08	1.656E-08	1.430E-08
SW	1.901E-16	2.633E-10	1.088E-08	2.948E-08	4.749E-08	3.152E-08	2.227E-08	1.659E-08	1.289E-08	1.035E-08	8.524E-09
WSW	3.497E-11	2.693E-09	1.964E-08	4.513E-08	6.418E-08	3.881E-08	2.599E-08	1.869E-08	1.416E-08	1.116E-08	9.059E-09
W	1.301E-08	4.507E-08	6.971E-08	6.788E-08	5.080E-08	2.990E-08	1.972E-08	1.404E-08	1.056E-08	8.273E-09	6.687E-09
WNW	1.988E-10	1.528E-08	1.382E-07	2.352E-07	2.401E-07	1.383E-07	8.996E-08	6.500E-08	4.933E-08	3.826E-08	3.069E-08
NW	3.461E-08	3.955E-08	1.048E-07	1.995E-07	2.727E-07	1.555E-07	1.009E-07	7.219E-08	5.458E-08	4.252E-08	3.424E-08
NNW	2.294E-08	7.301E-08	8.573E-08	8.967E-08	1.041E-07	9.754E-08	8.664E-08	7.361E-08	6.204E-08	4.839E-08	3.903E-08
N	5.202E-08	4.373E-08	4.338E-08	4.181E-08	4.258E-08	4.057E-08	3.666E-08	3.182E-08	2.773E-08	2.436E-08	2.159E-08
NNE	2.098E-09	1.790E-08	3.513E-08	4.390E-08	4.932E-08	4.574E-08	4.016E-08	3.487E-08	3.038E-08	2.668E-08	2.366E-08
NE	3.497E-11	2.566E-09	8.616E-09	1.338E-08	1.797E-08	1.811E-08	1.669E-08	1.497E-08	1.336E-08	1.195E-08	1.076E-08
ENE	1.135E-16	1.895E-10	3.722E-09	8.073E-09	1.181E-08	1.169E-08	1.056E-08	9.343E-09	8.269E-09	7.366E-09	6.620E-09
E	3.497E-11	2.565E-09	7.006E-09	9.868E-09	1.183E-08	1.114E-08	9.848E-09	8.614E-09	7.568E-09	6.706E-09	6.003E-09
ESE	3.136E-09	2.708E-08	4.378E-08	4.526E-08	4.200E-08	3.550E-08	2.948E-08	2.467E-08	2.095E-08	1.805E-08	1.578E-08
SE	1.546E-08	5.874E-08	1.008E-07	1.183E-07	1.151E-07	9.465E-08	7.585E-08	6.135E-08	5.048E-08	4.227E-08	3.598E-08
SSE	4.825E-08	9.346E-08	1.286E-07	1.271E-07	1.106E-07	8.991E-08	7.125E-08	5.791E-08	4.800E-08	6.365E-08	7.384E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.364E-08	2.514E-08	1.587E-08	8.726E-09	5.792E-09	4.201E-09	3.202E-09	2.544E-09	2.089E-09	1.753E-09	1.496E-09
SSW	1.275E-08	7.811E-09	4.924E-09	2.701E-09	1.784E-09	1.283E-09	9.760E-10	7.739E-10	6.327E-10	5.292E-10	4.508E-10
SW	7.504E-09	4.481E-09	2.833E-09	1.558E-09	1.028E-09	7.413E-10	5.664E-10	4.487E-10	3.664E-10	3.063E-10	2.607E-10
WSW	7.697E-09	4.198E-09	2.703E-09	1.493E-09	9.687E-10	6.925E-10	5.262E-10	4.170E-10	3.407E-10	2.850E-10	2.428E-10
W	5.545E-09	2.833E-09	1.846E-09	1.041E-09	6.862E-10	4.917E-10	3.727E-10	2.945E-10	2.398E-10	1.999E-10	1.696E-10
WNW	2.537E-08	1.281E-08	8.104E-09	4.443E-09	2.886E-09	2.063E-09	1.568E-09	1.242E-09	1.014E-09	8.473E-10	7.214E-10
NW	2.848E-08	1.475E-08	9.533E-09	5.386E-09	3.531E-09	2.545E-09	1.962E-09	1.566E-09	1.284E-09	1.078E-09	9.208E-10
NNW	3.271E-08	1.732E-08	1.105E-08	6.185E-09	4.108E-09	2.990E-09	2.312E-09	1.859E-09	1.542E-09	1.303E-09	1.119E-09
N	1.934E-08	1.270E-08	1.087E-08	8.577E-09	6.688E-09	5.190E-09	4.018E-09	3.228E-09	2.667E-09	2.251E-09	1.934E-09
NNE	2.696E-08	3.407E-08	2.186E-08	1.233E-08	8.222E-09	6.006E-09	4.645E-09	3.736E-09	3.092E-09	2.616E-09	2.251E-09
NE	1.285E-08	2.089E-08	1.354E-08	7.739E-09	5.204E-09	3.822E-09	3.001E-09	2.435E-09	2.026E-09	1.714E-09	1.475E-09
ENE	7.748E-09	1.691E-08	1.130E-08	6.697E-09	4.611E-09	3.448E-09	2.851E-09	2.395E-09	2.000E-09	1.705E-09	1.477E-09
E	6.967E-09	1.498E-08	1.002E-08	5.952E-09	4.107E-09	3.076E-09	2.426E-09	1.983E-09	1.727E-09	1.516E-09	1.315E-09
ESE	1.662E-08	2.169E-08	1.439E-08	8.457E-09	5.793E-09	4.315E-09	3.388E-09	2.760E-09	2.309E-09	1.971E-09	1.710E-09
SE	3.108E-08	1.793E-08	1.288E-08	8.159E-09	5.584E-09	4.139E-09	3.230E-09	2.612E-09	2.148E-09	1.806E-09	1.547E-09
SSE	6.228E-08	3.335E-08	2.111E-08	1.170E-08	7.725E-09	5.603E-09	4.310E-09	3.451E-09	2.847E-09	2.401E-09	2.061E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	9.359E-08	9.497E-08	6.706E-08	4.999E-08	4.775E-08	2.513E-08	9.018E-09	4.225E-09	2.559E-09	1.757E-09
SSW	1.485E-08	2.349E-08	2.020E-08	1.843E-08	1.440E-08	7.626E-09	2.787E-09	1.294E-09	7.779E-10	5.308E-10
SW	1.679E-08	3.639E-08	2.246E-08	1.298E-08	8.686E-09	4.420E-09	1.606E-09	7.477E-10	4.510E-10	3.072E-10
WSW	2.720E-08	4.867E-08	2.649E-08	1.431E-08	9.176E-09	4.311E-09	1.529E-09	6.996E-10	4.191E-10	2.858E-10
W	6.342E-08	4.531E-08	2.016E-08	1.068E-08	6.734E-09	2.997E-09	1.063E-09	4.965E-10	2.960E-10	2.005E-10
WNW	1.540E-07	1.937E-07	9.287E-08	4.959E-08	3.096E-08	1.351E-08	4.564E-09	2.085E-09	1.248E-09	8.500E-10
NW	1.324E-07	2.043E-07	1.040E-07	5.502E-08	3.456E-08	1.548E-08	5.483E-09	2.575E-09	1.572E-09	1.081E-09
NNW	8.466E-08	9.798E-08	8.433E-08	6.015E-08	3.946E-08	1.795E-08	6.343E-09	3.017E-09	1.867E-09	1.306E-09
N	4.276E-08	4.152E-08	3.577E-08	2.762E-08	2.158E-08	1.336E-08	8.247E-09	5.121E-09	3.240E-09	2.257E-09
NNE	3.520E-08	4.652E-08	3.953E-08	3.025E-08	2.577E-08	2.706E-08	1.262E-08	6.053E-09	3.751E-09	2.622E-09
NE	9.410E-09	1.701E-08	1.638E-08	1.328E-08	1.189E-08	1.584E-08	7.902E-09	3.862E-09	2.441E-09	1.718E-09
ENE	4.871E-09	1.093E-08	1.037E-08	8.232E-09	7.259E-09	1.238E-08	6.792E-09	3.519E-09	2.375E-09	1.708E-09
E	7.291E-09	1.109E-08	9.698E-09	7.538E-09	6.568E-09	1.099E-08	6.035E-09	3.091E-09	2.012E-09	1.504E-09
ESE	4.072E-08	3.983E-08	2.916E-08	2.091E-08	1.577E-08	1.732E-08	8.592E-09	4.338E-09	2.767E-09	1.975E-09
SE	9.922E-08	1.067E-07	7.507E-08	5.046E-08	3.683E-08	1.861E-08	8.064E-09	4.161E-09	2.612E-09	1.811E-09
SSE	1.201E-07	1.047E-07	7.065E-08	5.679E-08	6.654E-08	3.434E-08	1.202E-08	5.652E-09	3.466E-09	2.407E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.594E-08	6.216E-08	9.509E-08	1.057E-07	1.092E-07	8.221E-08	6.592E-08	5.334E-08	4.391E-08	4.782E-08	4.835E-08
SSW	1.083E-09	3.591E-09	1.301E-08	2.181E-08	2.556E-08	2.225E-08	1.834E-08	1.923E-08	1.881E-08	1.596E-08	1.373E-08
SW	1.902E-16	2.634E-10	1.089E-08	2.952E-08	4.706E-08	3.095E-08	2.170E-08	1.607E-08	1.241E-08	9.914E-09	8.132E-09
WSW	3.498E-11	2.673E-09	1.955E-08	4.562E-08	6.335E-08	3.791E-08	2.516E-08	1.796E-08	1.352E-08	1.059E-08	8.552E-09
W	1.301E-08	4.427E-08	6.861E-08	6.659E-08	4.947E-08	2.888E-08	1.891E-08	1.338E-08	1.002E-08	7.810E-09	6.287E-09
WNW	1.989E-10	1.523E-08	1.379E-07	2.331E-07	2.351E-07	1.338E-07	8.614E-08	6.172E-08	4.649E-08	3.578E-08	2.849E-08
NW	3.462E-08	3.921E-08	1.037E-07	1.979E-07	2.687E-07	1.517E-07	9.763E-08	6.941E-08	5.220E-08	4.044E-08	3.237E-08
NNW	2.294E-08	7.239E-08	8.421E-08	8.840E-08	1.028E-07	9.598E-08	8.512E-08	7.222E-08	6.079E-08	4.723E-08	3.791E-08
N	5.203E-08	4.336E-08	4.263E-08	4.117E-08	4.197E-08	3.992E-08	3.600E-08	3.119E-08	2.713E-08	2.380E-08	2.107E-08
NNE	2.099E-09	1.776E-08	3.467E-08	4.348E-08	4.875E-08	4.504E-08	3.940E-08	3.411E-08	2.965E-08	2.598E-08	2.300E-08
NE	3.498E-11	2.645E-09	8.540E-09	1.331E-08	1.783E-08	1.791E-08	1.646E-08	1.474E-08	1.313E-08	1.174E-08	1.056E-08
ENE	1.135E-16	1.897E-10	3.726E-09	8.086E-09	1.175E-08	1.156E-08	1.039E-08	9.156E-09	8.079E-09	7.181E-09	6.442E-09
E	3.498E-11	2.545E-09	6.928E-09	9.793E-09	1.171E-08	1.097E-08	9.666E-09	8.428E-09	7.385E-09	6.531E-09	5.838E-09
ESE	3.137E-09	2.685E-08	4.305E-08	4.456E-08	4.129E-08	3.475E-08	2.873E-08	2.395E-08	2.026E-08	1.741E-08	1.518E-08
SE	1.546E-08	5.826E-08	9.948E-08	1.172E-07	1.135E-07	9.268E-08	7.372E-08	5.920E-08	4.838E-08	4.027E-08	3.407E-08
SSE	4.825E-08	9.266E-08	1.265E-07	1.251E-07	1.086E-07	8.691E-08	6.916E-08	5.589E-08	4.608E-08	6.137E-08	7.147E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.167E-08	2.352E-08	1.444E-08	7.543E-09	4.747E-09	3.294E-09	2.421E-09	1.863E-09	1.489E-09	1.222E-09	1.023E-09
SSW	1.221E-08	7.340E-09	4.499E-09	2.341E-09	1.467E-09	1.020E-09	7.552E-10	5.846E-10	4.678E-10	3.838E-10	3.212E-10
SW	7.138E-09	4.182E-09	2.573E-09	1.343E-09	8.394E-10	5.795E-10	4.305E-10	3.328E-10	2.659E-10	2.179E-10	1.821E-10
WSW	7.235E-09	3.840E-09	2.407E-09	1.266E-09	7.920E-10	5.488E-10	4.058E-10	3.139E-10	2.510E-10	2.059E-10	1.723E-10
W	5.194E-09	2.613E-09	1.683E-09	9.116E-10	5.761E-10	4.003E-10	2.963E-10	2.295E-10	1.836E-10	1.507E-10	1.261E-10
WNW	2.739E-08	1.143E-08	7.021E-09	3.651E-09	2.253E-09	1.555E-09	1.146E-09	8.829E-10	7.032E-10	5.746E-10	4.791E-10
NW	2.677E-08	1.348E-08	8.472E-09	4.551E-09	2.848E-09	1.975E-09	1.477E-09	1.151E-09	9.238E-10	7.601E-10	6.377E-10
NNW	3.162E-08	1.627E-08	1.007E-08	5.296E-09	3.277E-09	2.249E-09	1.659E-09	1.287E-09	1.038E-09	8.577E-10	7.212E-10
N	1.885E-08	1.235E-08	1.061E-08	8.451E-09	6.489E-09	4.825E-09	3.655E-09	2.883E-09	2.342E-09	1.949E-09	1.652E-09
NNE	2.629E-08	3.326E-08	2.070E-08	1.107E-08	7.034E-09	4.939E-09	3.694E-09	2.886E-09	2.327E-09	1.924E-09	1.621E-09
NE	1.266E-08	2.066E-08	1.300E-08	7.024E-09	4.453E-09	3.119E-09	2.364E-09	1.875E-09	1.530E-09	1.272E-09	1.077E-09
ENE	7.571E-09	1.673E-08	1.084E-08	6.031E-09	3.847E-09	2.702E-09	2.116E-09	1.711E-09	1.393E-09	1.160E-09	9.843E-10
E	6.803E-09	1.480E-08	9.605E-09	5.349E-09	3.415E-09	2.400E-09	1.792E-09	1.396E-09	1.163E-09	9.845E-10	8.321E-10
ESE	1.602E-08	2.115E-08	1.363E-08	7.529E-09	4.798E-09	3.365E-09	2.509E-09	1.952E-09	1.567E-09	1.288E-09	1.079E-09
SE	2.927E-08	1.653E-08	1.172E-08	7.295E-09	4.923E-09	3.612E-09	2.797E-09	2.241E-09	1.805E-09	1.490E-09	1.254E-09
SSE	5.995E-08	3.117E-08	1.910E-08	1.002E-08	6.308E-09	4.396E-09	3.268E-09	2.539E-09	2.038E-09	1.673E-09	1.408E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	9.250E-08	9.343E-08	6.523E-08	4.810E-08	4.572E-08	2.352E-08	7.834E-09	3.332E-09	1.880E-09	1.227E-09
SSW	1.483E-08	2.325E-08	1.974E-08	1.784E-08	1.383E-08	7.160E-09	2.432E-09	1.033E-09	5.888E-10	3.855E-10
SW	1.681E-08	3.600E-08	2.191E-08	1.250E-08	8.292E-09	4.124E-09	1.392E-09	5.892E-10	3.352E-10	2.188E-10
WSW	2.712E-08	4.797E-08	2.568E-08	1.367E-08	8.668E-09	3.957E-09	1.309E-09	5.565E-10	3.162E-10	2.068E-10
W	6.230E-08	4.412E-08	1.936E-08	1.014E-08	6.334E-09	2.773E-09	9.340E-10	4.056E-10	2.311E-10	1.513E-10
WNW	1.529E-07	1.896E-07	8.907E-08	4.676E-08	2.876E-08	1.213E-08	3.779E-09	1.577E-09	8.896E-10	5.773E-10
NW	1.313E-07	2.010E-07	1.008E-07	5.264E-08	3.269E-08	1.421E-08	4.665E-09	2.009E-09	1.158E-09	7.633E-10
NNW	8.344E-08	9.656E-08	8.285E-08	5.889E-08	3.834E-08	1.692E-08	5.459E-09	2.287E-09	1.298E-09	8.607E-10
N	4.214E-08	4.088E-08	3.512E-08	2.702E-08	2.106E-08	1.302E-08	8.059E-09	4.801E-09	2.898E-09	1.956E-09
NNE	3.483E-08	4.593E-08	3.879E-08	2.953E-08	2.510E-08	2.613E-08	1.142E-08	5.000E-09	2.904E-09	1.931E-09
NE	9.349E-09	1.686E-08	1.616E-08	1.306E-08	1.169E-08	1.548E-08	7.210E-09	3.173E-09	1.883E-09	1.276E-09
ENE	4.878E-09	1.085E-08	1.021E-08	8.044E-09	7.079E-09	1.208E-08	6.130E-09	2.773E-09	1.705E-09	1.164E-09
E	7.227E-09	1.096E-08	9.519E-09	7.358E-09	6.401E-09	1.072E-08	5.435E-09	2.427E-09	1.421E-09	9.810E-10
ESE	4.012E-08	3.911E-08	2.842E-08	2.023E-08	1.615E-08	1.667E-08	7.670E-09	3.405E-09	1.964E-09	1.293E-09
SE	9.819E-08	1.051E-07	7.297E-08	4.838E-08	3.413E-08	1.722E-08	7.223E-09	3.635E-09	2.234E-09	1.496E-09
SSE	1.183E-07	1.026E-07	6.858E-08	5.471E-08	6.421E-08	3.220E-08	1.039E-08	4.454E-09	2.557E-09	1.685E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	7.067E-09	6.353E-09	6.294E-09	4.860E-09	2.584E-09	1.642E-09	1.130E-09	8.192E-10	6.164E-10	5.143E-10	4.531E-10
SSW	3.300E-10	5.936E-10	9.858E-10	9.573E-10	5.806E-10	3.858E-10	2.714E-10	1.989E-10	1.901E-10	1.436E-10	1.124E-10
SW	2.165E-11	1.299E-10	2.765E-10	2.864E-10	3.448E-10	1.890E-10	1.175E-10	8.000E-11	5.790E-11	4.381E-11	3.430E-11
WSW	2.881E-10	3.420E-10	4.501E-10	8.130E-10	4.442E-10	2.409E-10	1.488E-10	1.009E-10	7.280E-11	5.502E-11	4.305E-11
W	1.328E-09	2.195E-09	1.527E-09	8.698E-10	3.760E-10	2.007E-10	1.233E-10	8.335E-11	6.010E-11	4.542E-11	3.556E-11
WNW	8.900E-10	1.180E-09	5.195E-09	3.743E-09	2.314E-09	1.162E-09	6.866E-10	4.515E-10	3.261E-10	2.440E-10	1.919E-10
NW	5.598E-09	4.472E-09	3.680E-09	4.322E-09	2.514E-09	1.251E-09	7.372E-10	4.855E-10	3.460E-10	2.622E-10	2.088E-10
NNW	5.841E-09	4.546E-09	3.560E-09	2.284E-09	1.633E-09	8.732E-10	5.393E-10	4.243E-10	3.096E-10	2.416E-10	1.990E-10
N	6.102E-09	4.726E-09	3.664E-09	2.328E-09	1.055E-09	6.266E-10	4.164E-10	2.963E-10	2.208E-10	1.703E-10	1.348E-10
NNE	1.650E-09	1.581E-09	1.698E-09	1.376E-09	7.554E-10	4.855E-10	3.361E-10	2.444E-10	1.842E-10	1.427E-10	1.130E-10
NE	2.867E-10	3.339E-10	4.328E-10	3.845E-10	2.228E-10	1.459E-10	1.019E-10	7.445E-11	5.623E-11	4.359E-11	3.452E-11
ENE	1.623E-11	9.740E-11	2.074E-10	2.148E-10	1.342E-10	8.996E-11	6.355E-11	4.668E-11	3.535E-11	2.744E-11	2.173E-11
E	2.786E-10	2.852E-10	3.291E-10	2.771E-10	1.557E-10	1.009E-10	7.014E-11	5.111E-11	3.855E-11	2.987E-11	2.366E-11
ESE	3.750E-09	3.092E-09	2.690E-09	1.893E-09	9.390E-10	5.806E-10	3.941E-10	2.837E-10	2.127E-10	1.644E-10	1.302E-10
SE	8.448E-09	7.706E-09	7.784E-09	6.084E-09	3.262E-09	2.079E-09	1.433E-09	1.040E-09	7.826E-10	6.059E-10	4.798E-10
SSE	1.337E-08	1.093E-08	9.354E-09	6.498E-09	3.191E-09	1.964E-09	1.330E-09	9.565E-10	7.167E-10	6.636E-10	5.839E-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	3.645E-10	1.939E-10	1.215E-10	6.514E-11	4.066E-11	3.557E-11	2.544E-11	1.906E-11	1.481E-11	1.178E-11	9.615E-12
SSW	9.033E-11	5.124E-11	3.272E-11	1.778E-11	1.364E-11	9.242E-12	6.622E-12	4.973E-12	3.866E-12	3.088E-12	2.521E-12
SW	2.789E-11	1.911E-11	1.291E-11	7.396E-12	4.651E-12	3.324E-12	2.452E-12	1.873E-12	1.456E-12	1.163E-12	9.493E-13
WSW	3.461E-11	2.206E-11	1.465E-11	9.571E-12	5.792E-12	3.884E-12	2.823E-12	2.120E-12	1.648E-12	1.317E-12	1.075E-12
W	2.863E-11	1.296E-11	9.117E-12	5.437E-12	4.157E-12	2.787E-12	1.997E-12	1.500E-12	1.166E-12	9.314E-13	7.603E-13
WNW	1.583E-10	8.152E-11	5.342E-11	2.979E-11	1.905E-11	1.410E-11	1.062E-11	7.974E-12	6.200E-12	4.953E-12	4.043E-12
NW	1.739E-10	9.265E-11	6.204E-11	3.991E-11	2.421E-11	1.623E-11	1.185E-11	8.898E-12	6.968E-12	5.566E-12	4.543E-12
NNW	1.716E-10	1.030E-10	7.349E-11	4.440E-11	2.862E-11	1.929E-11	1.332E-11	9.882E-12	7.673E-12	6.129E-12	5.003E-12
N	1.090E-10	5.214E-11	3.214E-11	1.737E-11	5.134E-11	2.929E-11	2.076E-11	1.559E-11	1.213E-11	9.687E-12	7.908E-12
NNE	9.108E-11	1.732E-10	1.087E-10	5.724E-11	3.507E-11	2.344E-11	1.671E-11	1.247E-11	9.650E-12	7.677E-12	6.243E-12
NE	2.782E-11	8.131E-11	5.251E-11	2.851E-11	1.762E-11	1.175E-11	8.013E-12	5.921E-12	4.604E-12	3.677E-12	3.002E-12
ENE	1.750E-11	5.202E-11	4.199E-11	2.755E-11	1.784E-11	1.176E-11	8.183E-12	4.750E-12	3.691E-12	2.948E-12	2.406E-12
E	1.907E-11	4.947E-11	3.961E-11	2.587E-11	1.676E-11	1.106E-11	7.714E-12	5.606E-12	4.236E-12	2.851E-12	2.318E-12
ESE	1.051E-10	1.282E-10	9.481E-11	5.870E-11	3.779E-11	2.521E-11	1.782E-11	1.315E-11	1.007E-11	7.952E-12	6.428E-12
SE	3.870E-10	1.839E-10	1.126E-10	5.982E-11	3.686E-11	2.546E-11	1.894E-11	2.245E-11	1.752E-11	1.410E-11	1.159E-11
SSE	4.797E-10	3.316E-10	2.028E-10	1.037E-10	6.296E-11	4.218E-11	3.018E-11	2.262E-11	1.757E-11	1.402E-11	1.143E-11

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	5.669E-09	2.671E-09	1.242E-09	6.354E-10	4.384E-10	1.996E-10	6.679E-11	3.288E-11	1.926E-11	1.188E-11
SSW	8.860E-10	5.777E-10	2.729E-10	1.749E-10	1.135E-10	5.170E-11	1.926E-11	9.366E-12	5.022E-12	3.109E-12
SW	2.483E-10	2.626E-10	1.216E-10	5.885E-11	3.475E-11	1.831E-11	7.403E-12	3.329E-12	1.879E-12	1.171E-12
WSW	5.874E-10	4.358E-10	1.542E-10	7.404E-11	4.347E-11	2.155E-11	9.019E-12	3.968E-12	2.141E-12	1.325E-12
W	1.383E-09	4.078E-10	1.280E-10	6.115E-11	3.592E-11	1.473E-11	5.686E-12	2.837E-12	1.515E-12	9.376E-13
WNW	3.658E-09	2.120E-09	7.193E-10	3.307E-10	1.949E-10	8.610E-11	3.027E-11	1.403E-11	8.054E-12	4.985E-12
NW	4.142E-09	2.354E-09	7.735E-10	3.539E-10	2.117E-10	9.711E-11	3.785E-11	1.661E-11	9.006E-12	5.602E-12
NNW	3.212E-09	1.440E-09	5.824E-10	3.165E-10	2.015E-10	1.051E-10	4.385E-11	1.939E-11	1.002E-11	6.170E-12
N	3.306E-09	1.147E-09	4.244E-10	2.231E-10	1.358E-10	5.588E-11	3.575E-11	3.176E-11	1.575E-11	9.751E-12
NNE	1.529E-09	7.734E-10	3.393E-10	1.856E-10	1.137E-10	1.263E-10	5.882E-11	2.385E-11	1.261E-11	7.731E-12
NE	3.894E-10	2.246E-10	1.027E-10	5.662E-11	3.473E-11	5.662E-11	2.900E-11	1.182E-11	6.017E-12	3.702E-12
ENE	1.862E-10	1.324E-10	6.385E-11	3.558E-11	2.186E-11	3.989E-11	2.644E-11	1.195E-11	5.328E-12	2.967E-12
E	2.963E-10	1.583E-10	7.073E-11	3.883E-11	2.380E-11	3.833E-11	2.487E-11	1.124E-11	5.686E-12	3.064E-12
ESE	2.425E-09	9.916E-10	3.997E-10	2.146E-10	1.310E-10	1.082E-10	5.743E-11	2.561E-11	1.331E-11	8.014E-12
SE	7.011E-09	3.363E-09	1.448E-09	7.888E-10	4.828E-10	1.974E-10	6.135E-11	2.590E-11	1.957E-11	1.419E-11
SSE	8.434E-09	3.381E-09	1.350E-09	7.650E-10	5.689E-10	3.072E-10	1.076E-10	4.292E-11	2.286E-11	1.411E-11

ERP ELEVATED STACK RELEASES - JAN-MAR 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	9.957E-08	9.949E-08	9.814E-08	6.035E-09
A	SITE BOUNDARY	SSW	0.82	1327.	1.621E-08	1.620E-08	1.617E-08	1.020E-09
A	SITE BOUNDARY	SW	0.98	1569.	2.782E-08	2.777E-08	2.781E-08	2.939E-10
A	SITE BOUNDARY	WSW	0.93	1489.	3.810E-08	3.804E-08	3.797E-08	6.499E-10
A	SITE BOUNDARY	W	0.91	1468.	6.971E-08	6.960E-08	6.837E-08	1.044E-09
A	SITE BOUNDARY	WNW	0.94	1509.	2.188E-07	2.185E-07	2.170E-07	4.176E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.279E-07	1.278E-07	1.267E-07	3.336E-09
A	SITE BOUNDARY	NNW	0.69	1106.	8.143E-08	8.137E-08	7.999E-08	3.747E-09
A	SITE BOUNDARY	N	0.67	1086.	4.203E-08	4.200E-08	4.131E-08	3.913E-09
A	SITE BOUNDARY	NNE	0.60	965.	2.401E-08	2.399E-08	2.369E-08	1.603E-09
A	SITE BOUNDARY	NE	0.62	1005.	5.137E-09	5.132E-09	5.080E-09	3.785E-10
A	SITE BOUNDARY	ENE	0.59	945.	8.397E-10	8.388E-10	8.394E-10	1.349E-10
A	SITE BOUNDARY	E	0.53	845.	2.923E-09	2.921E-09	2.894E-09	2.879E-10
A	SITE BOUNDARY	ESE	0.54	865.	2.994E-08	2.992E-08	2.961E-08	3.003E-09
A	SITE BOUNDARY	SE	0.65	1046.	8.103E-08	8.100E-08	7.995E-08	7.635E-09
A	SITE BOUNDARY	SSE	0.81	1307.	1.290E-07	1.289E-07	1.267E-07	8.569E-09
A	NEAR. RESIDENCE	SSW	1.80	2897.	2.418E-08	2.413E-08	2.382E-08	4.496E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	4.424E-08	4.412E-08	4.391E-08	4.563E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	6.257E-08	6.242E-08	6.186E-08	5.918E-10
A	NEAR. RESIDENCE	W	1.00	1609.	6.801E-08	6.788E-08	6.659E-08	8.698E-10
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.129E-07	2.124E-07	2.075E-07	1.983E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	1.619E-07	1.617E-07	1.605E-07	4.969E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	9.971E-08	9.940E-08	9.786E-08	9.776E-10
A	NEAR. RESIDENCE	N	3.00	4828.	3.201E-08	3.182E-08	3.119E-08	2.963E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.815E-08	3.796E-08	3.720E-08	2.944E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.206E-08	1.201E-08	1.191E-08	1.135E-10
A	NEAR. RESIDENCE	E	1.80	2897.	1.159E-08	1.156E-08	1.141E-08	1.177E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	3.067E-08	3.058E-08	2.983E-08	4.235E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	8.681E-08	8.663E-08	8.457E-08	1.778E-09
A	NEAREST COW	NNW	3.50	5633.	6.241E-08	6.203E-08	6.078E-08	3.096E-10
A	NEAREST GARDEN	SSW	1.80	2897.	2.418E-08	2.413E-08	2.382E-08	4.496E-10
A	NEAREST GARDEN	SW	2.20	3541.	2.736E-08	2.723E-08	2.665E-08	1.542E-10
A	NEAREST GARDEN	WSW	1.30	2092.	6.257E-08	6.242E-08	6.186E-08	5.918E-10
A	NEAREST GARDEN	WNW	2.30	3702.	1.059E-07	1.056E-07	1.015E-07	8.345E-10
A	NEAREST GARDEN	NW	0.90	1448.	1.619E-07	1.617E-07	1.605E-07	4.969E-09
A	NEAREST GARDEN	N	3.00	4828.	3.201E-08	3.182E-08	3.119E-08	2.963E-10
A	NEAREST GARDEN	ENE	1.70	2736.	1.206E-08	1.201E-08	1.191E-08	1.135E-10
A	NEAREST GARDEN	E	1.80	2897.	1.159E-08	1.156E-08	1.141E-08	1.177E-10
A	NEAREST GARDEN	ESE	2.60	4184.	2.851E-08	2.842E-08	2.767E-08	3.676E-10

Atmospheric Diffusion Estimates

Elevated Releases

April-June 1996

ERP ELEVATED STACK RELEASES - APR-JUN 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.400E-08	1.486E-07	1.535E-07	1.207E-07	8.580E-08	6.406E-08	4.941E-08	3.927E-08	3.207E-08	3.489E-08	3.704E-08
SSW	5.230E-09	6.225E-08	7.466E-08	6.216E-08	4.949E-08	4.043E-08	3.329E-08	3.649E-08	3.890E-08	3.481E-08	3.152E-08
SW	3.574E-08	5.464E-08	7.388E-08	9.105E-08	1.015E-07	6.390E-08	4.389E-08	3.213E-08	2.466E-08	1.963E-08	1.607E-08
WSW	6.996E-08	7.565E-08	1.268E-07	1.785E-07	2.169E-07	1.305E-07	8.748E-08	6.309E-08	4.796E-08	3.791E-08	3.088E-08
W	1.176E-07	1.401E-07	2.189E-07	2.301E-07	1.980E-07	1.221E-07	8.332E-08	6.092E-08	4.683E-08	3.736E-08	3.068E-08
WNW	3.189E-08	6.004E-08	1.414E-07	2.117E-07	2.486E-07	1.489E-07	9.957E-08	7.432E-08	5.790E-08	4.547E-08	3.686E-08
NW	4.697E-08	6.921E-08	1.553E-07	2.672E-07	3.859E-07	2.258E-07	1.496E-07	1.097E-07	8.487E-08	6.702E-08	5.463E-08
NNW	6.501E-08	1.443E-07	1.577E-07	1.371E-07	1.214E-07	1.046E-07	9.412E-08	8.497E-08	7.786E-08	6.154E-08	5.022E-08
N	5.287E-08	1.159E-07	1.223E-07	9.706E-08	7.176E-08	5.710E-08	4.632E-08	3.767E-08	3.134E-08	2.659E-08	2.295E-08
NNE	5.389E-08	8.185E-08	7.976E-08	6.153E-08	4.481E-08	3.498E-08	2.811E-08	2.313E-08	1.943E-08	1.662E-08	1.444E-08
NE	2.578E-09	2.757E-08	2.967E-08	2.213E-08	1.525E-08	1.170E-08	9.386E-09	7.757E-09	6.565E-09	5.667E-09	4.973E-09
ENE	5.145E-11	2.718E-09	5.694E-09	6.690E-09	6.893E-09	6.123E-09	5.252E-09	4.500E-09	3.889E-09	3.398E-09	3.003E-09
E	3.140E-08	2.373E-08	2.088E-08	1.717E-08	1.409E-08	1.165E-08	9.678E-09	8.139E-09	6.946E-09	6.013E-09	5.274E-09
ESE	2.695E-08	5.697E-08	5.235E-08	3.758E-08	2.520E-08	1.900E-08	1.501E-08	1.224E-08	1.023E-08	8.732E-09	7.584E-09
SE	2.340E-08	5.372E-08	6.001E-08	5.170E-08	4.043E-08	3.140E-08	2.475E-08	1.997E-08	1.649E-08	1.391E-08	1.193E-08
SSE	6.692E-08	9.843E-08	1.049E-07	9.352E-08	7.615E-08	5.931E-08	4.637E-08	3.700E-08	3.022E-08	3.729E-08	4.189E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.272E-08	2.047E-08	1.314E-08	7.428E-09	5.079E-09	3.771E-09	2.929E-09	2.367E-09	1.977E-09	1.686E-09	1.460E-09
SSW	2.984E-08	2.284E-08	1.482E-08	8.488E-09	5.909E-09	4.401E-09	3.428E-09	2.777E-09	2.318E-09	1.976E-09	1.713E-09
SW	1.401E-08	8.259E-09	5.234E-09	2.903E-09	1.941E-09	1.419E-09	1.098E-09	8.811E-10	7.284E-10	6.161E-10	5.307E-10
WSW	2.641E-08	1.482E-08	9.719E-09	5.520E-09	3.655E-09	2.661E-09	2.056E-09	1.654E-09	1.371E-09	1.163E-09	1.004E-09
W	2.578E-08	1.384E-08	9.540E-09	5.810E-09	4.047E-09	2.972E-09	2.309E-09	1.866E-09	1.554E-09	1.322E-09	1.145E-09
WNW	3.086E-08	1.634E-08	1.066E-08	6.106E-09	4.086E-09	2.994E-09	2.324E-09	1.875E-09	1.556E-09	1.320E-09	1.140E-09
NW	4.615E-08	2.552E-08	1.734E-08	1.053E-08	7.118E-09	5.264E-09	4.210E-09	3.452E-09	2.886E-09	2.466E-09	2.142E-09
NNW	4.303E-08	2.488E-08	1.627E-08	9.450E-09	6.466E-09	4.826E-09	3.837E-09	3.162E-09	2.708E-09	2.341E-09	2.042E-09
N	2.014E-08	1.247E-08	1.020E-08	7.910E-09	6.259E-09	4.943E-09	3.870E-09	3.143E-09	2.622E-09	2.236E-09	1.940E-09
NNE	1.562E-08	1.718E-08	1.102E-08	6.238E-09	4.195E-09	3.090E-09	2.410E-09	1.955E-09	1.632E-09	1.392E-09	1.208E-09
NE	5.692E-09	9.131E-09	5.938E-09	3.425E-09	2.330E-09	1.732E-09	1.373E-09	1.126E-09	9.464E-10	8.105E-10	7.059E-10
ENE	3.292E-09	4.325E-09	2.827E-09	1.635E-09	1.111E-09	8.245E-10	6.620E-10	5.465E-10	4.569E-10	3.903E-10	3.391E-10
E	5.655E-09	7.259E-09	4.760E-09	2.768E-09	1.891E-09	1.409E-09	1.109E-09	9.062E-10	7.765E-10	6.750E-10	5.878E-10
ESE	7.911E-09	1.040E-08	6.938E-09	4.119E-09	2.852E-09	2.145E-09	1.700E-09	1.397E-09	1.179E-09	1.015E-09	8.884E-10
SE	1.040E-08	6.298E-09	4.872E-09	3.545E-09	2.607E-09	2.045E-09	1.671E-09	1.404E-09	1.176E-09	1.006E-09	8.748E-10
SSE	3.526E-08	1.879E-08	1.190E-08	6.609E-09	4.384E-09	3.195E-09	2.471E-09	1.990E-09	1.651E-09	1.401E-09	1.211E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.378E-07	8.388E-08	4.926E-08	3.520E-08	3.480E-08	1.993E-08	7.653E-09	3.783E-09	2.379E-09	1.688E-09
SSW	6.635E-08	4.828E-08	3.647E-08	3.665E-08	3.187E-08	2.083E-08	8.748E-09	4.414E-09	2.788E-09	1.980E-09
SW	7.724E-08	8.246E-08	4.452E-08	2.488E-08	1.636E-08	8.193E-09	2.993E-09	1.430E-09	8.850E-10	6.177E-10
WSW	1.384E-07	1.700E-07	8.921E-08	4.845E-08	3.131E-08	1.513E-08	5.624E-09	2.684E-09	1.661E-09	1.166E-09
W	2.064E-07	1.714E-07	8.472E-08	4.725E-08	3.085E-08	1.458E-08	5.855E-09	2.993E-09	1.874E-09	1.325E-09
WNW	1.546E-07	1.961E-07	1.026E-07	5.786E-08	3.719E-08	1.704E-08	6.219E-09	3.017E-09	1.882E-09	1.324E-09
NW	1.859E-07	2.884E-07	1.540E-07	8.518E-08	5.516E-08	2.647E-08	1.053E-08	5.337E-09	3.453E-09	2.471E-09
NNW	1.456E-07	1.174E-07	9.325E-08	7.368E-08	5.091E-08	2.509E-08	9.639E-09	4.868E-09	3.182E-09	2.339E-09
N	1.097E-07	7.087E-08	4.574E-08	3.134E-08	2.299E-08	1.317E-08	7.685E-09	4.865E-09	3.152E-09	2.241E-09
NNE	7.212E-08	4.416E-08	2.795E-08	1.942E-08	1.552E-08	1.410E-08	6.392E-09	3.112E-09	1.962E-09	1.395E-09
NE	2.585E-08	1.520E-08	9.352E-09	6.563E-09	5.445E-09	6.948E-09	3.497E-09	1.748E-09	1.128E-09	8.120E-10
ENE	5.475E-09	6.506E-09	5.184E-09	3.876E-09	3.227E-09	3.430E-09	1.667E-09	8.359E-10	5.453E-10	3.910E-10
E	1.986E-08	1.369E-08	9.588E-09	6.931E-09	5.634E-09	5.792E-09	2.821E-09	1.418E-09	9.147E-10	6.728E-10
ESE	4.681E-08	2.520E-08	1.496E-08	1.023E-08	8.045E-09	8.308E-09	4.182E-09	2.155E-09	1.400E-09	1.017E-09
SE	5.492E-08	3.892E-08	2.461E-08	1.650E-08	1.195E-08	6.576E-09	3.423E-09	2.045E-09	1.393E-09	1.008E-09
SSE	9.839E-08	7.252E-08	4.607E-08	3.485E-08	3.807E-08	1.938E-08	6.795E-09	3.223E-09	1.999E-09	1.405E-09

ERP ELEVATED STACK RELEASES - APR-JUN 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.398E-08	1.485E-07	1.533E-07	1.205E-07	8.561E-08	6.387E-08	4.922E-08	3.910E-08	3.190E-08	3.467E-08	3.675E-08
SSW	5.223E-09	6.212E-08	7.447E-08	6.199E-08	4.930E-08	4.022E-08	3.307E-08	3.619E-08	3.851E-08	3.440E-08	3.109E-08
SW	3.573E-08	5.460E-08	7.380E-08	9.091E-08	1.012E-07	6.366E-08	4.368E-08	3.195E-08	2.450E-08	1.948E-08	1.593E-08
WSW	6.991E-08	7.558E-08	1.267E-07	1.782E-07	2.163E-07	1.300E-07	8.705E-08	6.271E-08	4.762E-08	3.760E-08	3.060E-08
W	1.175E-07	1.400E-07	2.187E-07	2.298E-07	1.975E-07	1.217E-07	8.289E-08	6.054E-08	4.648E-08	3.704E-08	3.038E-08
WNW	3.188E-08	6.000E-08	1.413E-07	2.113E-07	2.480E-07	1.484E-07	9.915E-08	7.394E-08	5.756E-08	4.516E-08	3.658E-08
NW	4.692E-08	6.913E-08	1.552E-07	2.668E-07	3.849E-07	2.250E-07	1.489E-07	1.091E-07	8.428E-08	6.648E-08	5.412E-08
NNW	6.499E-08	1.442E-07	1.575E-07	1.369E-07	1.211E-07	1.042E-07	9.371E-08	8.449E-08	7.730E-08	6.103E-08	4.974E-08
N	5.286E-08	1.158E-07	1.222E-07	9.691E-08	7.160E-08	5.693E-08	4.615E-08	3.749E-08	3.116E-08	2.642E-08	2.278E-08
NNE	5.384E-08	8.172E-08	7.959E-08	6.137E-08	4.466E-08	3.485E-08	2.798E-08	2.300E-08	1.931E-08	1.650E-08	1.432E-08
NE	2.574E-09	2.750E-08	2.959E-08	2.206E-08	1.519E-08	1.165E-08	9.339E-09	7.712E-09	6.522E-09	5.624E-09	4.931E-09
ENE	5.144E-11	2.718E-09	5.690E-09	6.682E-09	6.877E-09	6.100E-09	5.226E-09	4.471E-09	3.858E-09	3.366E-09	2.971E-09
E	3.135E-08	2.369E-08	2.085E-08	1.714E-08	1.405E-08	1.161E-08	9.630E-09	8.089E-09	6.895E-09	5.961E-09	5.222E-09
ESE	2.695E-08	5.694E-08	5.231E-08	3.754E-08	2.515E-08	1.895E-08	1.495E-08	1.218E-08	1.017E-08	8.673E-09	7.525E-09
SE	2.340E-08	5.370E-08	5.998E-08	5.165E-08	4.037E-08	3.133E-08	2.468E-08	1.990E-08	1.642E-08	1.383E-08	1.186E-08
SSE	6.690E-08	9.836E-08	1.048E-07	9.340E-08	7.601E-08	5.916E-08	4.623E-08	3.687E-08	3.009E-08	3.710E-08	4.163E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.243E-08	2.017E-08	1.288E-08	7.208E-09	4.876E-09	3.582E-09	2.753E-09	2.202E-09	1.820E-09	1.536E-09	1.315E-09
SSW	2.938E-08	2.226E-08	1.431E-08	8.054E-09	5.506E-09	4.027E-09	3.081E-09	2.452E-09	2.010E-09	1.684E-09	1.435E-09
SW	1.388E-08	8.139E-09	5.133E-09	2.820E-09	1.868E-09	1.353E-09	1.037E-09	8.246E-10	6.755E-10	5.663E-10	4.834E-10
WSW	2.613E-08	1.458E-08	9.508E-09	5.339E-09	3.495E-09	2.516E-09	1.922E-09	1.529E-09	1.254E-09	1.051E-09	8.976E-10
W	2.550E-08	1.361E-08	9.323E-09	5.607E-09	3.856E-09	2.798E-09	2.147E-09	1.715E-09	1.411E-09	1.186E-09	1.015E-09
WNW	3.059E-08	1.612E-08	1.047E-08	5.950E-09	3.947E-09	2.867E-09	2.207E-09	1.766E-09	1.453E-09	1.222E-09	1.047E-09
NW	4.566E-08	2.508E-08	1.691E-08	1.012E-08	6.742E-09	4.915E-09	3.870E-09	3.124E-09	2.575E-09	2.167E-09	1.856E-09
NNW	4.257E-08	2.445E-08	1.589E-08	9.119E-09	6.163E-09	4.544E-09	3.567E-09	2.903E-09	2.454E-09	2.094E-09	1.803E-09
N	1.997E-08	1.231E-08	1.001E-08	7.672E-09	5.997E-09	4.680E-09	3.624E-09	2.911E-09	2.403E-09	2.027E-09	1.740E-09
NNE	1.549E-08	1.695E-08	1.083E-08	6.075E-09	4.048E-09	2.955E-09	2.285E-09	1.837E-09	1.520E-09	1.285E-09	1.106E-09
NE	5.638E-09	9.003E-09	5.827E-09	3.329E-09	2.244E-09	1.652E-09	1.297E-09	1.054E-09	8.775E-10	7.445E-10	6.423E-10
ENE	3.251E-09	4.248E-09	2.760E-09	1.577E-09	1.060E-09	7.773E-10	6.173E-10	5.042E-10	4.168E-10	3.522E-10	3.027E-10
E	5.590E-09	7.113E-09	4.633E-09	2.657E-09	1.791E-09	1.316E-09	1.022E-09	8.241E-10	6.971E-10	5.984E-10	5.144E-10
ESE	7.842E-09	1.025E-08	6.806E-09	4.003E-09	2.745E-09	2.045E-09	1.606E-09	1.307E-09	1.093E-09	9.331E-10	8.092E-10
SE	1.033E-08	6.222E-09	4.781E-09	3.487E-09	2.484E-09	1.920E-09	1.546E-09	1.279E-09	1.057E-09	8.917E-10	7.651E-10
SSE	3.500E-08	1.858E-08	1.172E-08	6.461E-09	4.252E-09	3.075E-09	2.359E-09	1.886E-09	1.552E-09	1.307E-09	1.120E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.377E-07	8.370E-08	4.908E-08	3.501E-08	3.453E-08	1.966E-08	7.433E-09	3.596E-09	2.214E-09	1.538E-09
SSW	6.618E-08	4.808E-08	3.623E-08	3.628E-08	3.144E-08	2.031E-08	8.313E-09	4.043E-09	2.464E-09	1.688E-09
SW	7.714E-08	8.223E-08	4.431E-08	2.471E-08	1.622E-08	8.078E-09	2.911E-09	1.364E-09	8.286E-10	5.680E-10
WSW	1.382E-07	1.695E-07	8.878E-08	4.812E-08	3.102E-08	1.489E-08	5.446E-09	2.540E-09	1.537E-09	1.054E-09
W	2.061E-07	1.710E-07	8.429E-08	4.690E-08	3.055E-08	1.435E-08	5.655E-09	2.820E-09	1.723E-09	1.189E-09
WNW	1.543E-07	1.956E-07	1.022E-07	5.751E-08	3.690E-08	1.683E-08	6.065E-09	2.891E-09	1.773E-09	1.225E-09
NW	1.857E-07	2.876E-07	1.533E-07	8.459E-08	5.465E-08	2.602E-08	1.013E-08	4.984E-09	3.128E-09	2.173E-09
NNW	1.454E-07	1.171E-07	9.282E-08	7.316E-08	5.043E-08	2.467E-08	9.310E-09	4.585E-09	2.922E-09	2.093E-09
N	1.095E-07	7.071E-08	4.556E-08	3.117E-08	2.282E-08	1.299E-08	7.447E-09	4.609E-09	2.921E-09	2.032E-09
NNE	7.197E-08	4.401E-08	2.782E-08	1.929E-08	1.540E-08	1.390E-08	6.230E-09	2.978E-09	1.844E-09	1.288E-09
NE	2.578E-08	1.515E-08	9.306E-09	6.520E-09	5.398E-09	6.844E-09	3.402E-09	1.668E-09	1.056E-09	7.460E-10
ENE	5.470E-09	6.488E-09	5.157E-09	3.846E-09	3.192E-09	3.365E-09	1.610E-09	7.886E-10	5.032E-10	3.530E-10
E	1.983E-08	1.365E-08	9.541E-09	6.881E-09	5.577E-09	5.672E-09	2.711E-09	1.325E-09	8.323E-10	5.965E-10
ESE	4.677E-08	2.515E-08	1.491E-08	1.017E-08	7.983E-09	8.185E-09	4.067E-09	2.056E-09	1.311E-09	9.347E-10
SE	5.488E-08	3.886E-08	2.454E-08	1.643E-08	1.188E-08	6.494E-09	3.309E-09	1.921E-09	1.271E-09	8.937E-10
SSE	9.829E-08	7.239E-08	4.593E-08	3.470E-08	3.783E-08	1.918E-08	6.647E-09	3.103E-09	1.894E-09	1.310E-09

ERP ELEVATED STACK RELEASES - APR-JUN 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.399E-08	1.473E-07	1.502E-07	1.177E-07	8.342E-08	6.195E-08	4.748E-08	3.751E-08	3.044E-08	3.313E-08	3.522E-08
SSW	5.228E-09	6.166E-08	7.307E-08	6.070E-08	4.825E-08	3.926E-08	3.217E-08	3.524E-08	3.758E-08	3.354E-08	3.031E-08
SW	3.574E-08	5.414E-08	7.265E-08	8.994E-08	9.958E-08	6.202E-08	4.219E-08	3.062E-08	2.332E-08	1.843E-08	1.499E-08
WSW	6.995E-08	7.496E-08	1.249E-07	1.764E-07	2.129E-07	1.269E-07	8.432E-08	6.039E-08	4.562E-08	3.586E-08	2.907E-08
W	1.176E-07	1.378E-07	2.157E-07	2.261E-07	1.936E-07	1.186E-07	8.044E-08	5.854E-08	4.481E-08	3.563E-08	2.916E-08
WNW	3.189E-08	5.954E-08	1.401E-07	2.091E-07	2.442E-07	1.451E-07	9.637E-08	7.159E-08	5.554E-08	4.337E-08	3.495E-08
NW	4.695E-08	6.858E-08	1.533E-07	2.643E-07	3.797E-07	2.202E-07	1.449E-07	1.057E-07	8.144E-08	6.398E-08	5.185E-08
NNW	6.500E-08	1.430E-07	1.544E-07	1.342E-07	1.187E-07	1.019E-07	9.158E-08	8.265E-08	7.575E-08	5.961E-08	4.839E-08
N	5.287E-08	1.148E-07	1.197E-07	9.475E-08	6.988E-08	5.540E-08	4.474E-08	3.621E-08	2.999E-08	2.535E-08	2.179E-08
NNE	5.388E-08	8.108E-08	7.801E-08	5.995E-08	4.354E-08	3.389E-08	2.713E-08	2.224E-08	1.862E-08	1.587E-08	1.375E-08
NE	2.577E-09	2.730E-08	2.901E-08	2.154E-08	1.480E-08	1.133E-08	9.057E-09	7.460E-09	6.295E-09	5.419E-09	4.744E-09
ENE	5.145E-11	2.695E-09	5.607E-09	6.601E-09	6.781E-09	5.991E-09	5.112E-09	4.360E-09	3.752E-09	3.266E-09	2.878E-09
E	3.139E-08	2.351E-08	2.044E-08	1.677E-08	1.374E-08	1.132E-08	9.367E-09	7.847E-09	6.673E-09	5.758E-09	5.035E-09
ESE	2.695E-08	5.645E-08	5.119E-08	3.658E-08	2.445E-08	1.837E-08	1.445E-08	1.173E-08	9.773E-09	8.311E-09	7.195E-09
SE	2.340E-08	5.324E-08	5.886E-08	5.067E-08	3.951E-08	3.051E-08	2.390E-08	1.916E-08	1.573E-08	1.319E-08	1.127E-08
SSE	6.691E-08	9.754E-08	1.029E-07	9.180E-08	7.452E-08	5.765E-08	4.473E-08	3.543E-08	2.872E-08	3.546E-08	3.992E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.102E-08	1.903E-08	1.182E-08	6.273E-09	4.005E-09	2.804E-09	2.071E-09	1.599E-09	1.284E-09	1.061E-09	8.919E-10
SSW	2.868E-08	2.162E-08	1.354E-08	7.222E-09	4.649E-09	3.307E-09	2.477E-09	1.936E-09	1.563E-09	1.292E-09	1.088E-09
SW	1.301E-08	7.477E-09	4.589E-09	2.400E-09	1.513E-09	1.052E-09	7.839E-10	6.074E-10	4.864E-10	3.994E-10	3.345E-10
WSW	2.476E-08	1.353E-08	8.597E-09	4.613E-09	2.912E-09	2.034E-09	1.515E-09	1.179E-09	9.477E-10	7.810E-10	6.562E-10
W	2.443E-08	1.294E-08	8.790E-09	5.035E-09	3.292E-09	2.322E-09	1.739E-09	1.361E-09	1.099E-09	9.089E-10	7.664E-10
WNW	2.908E-08	1.490E-08	9.396E-09	5.031E-09	3.125E-09	2.164E-09	1.614E-09	1.258E-09	1.011E-09	8.321E-10	6.987E-10
NW	4.356E-08	2.334E-08	1.534E-08	8.713E-09	5.486E-09	3.820E-09	2.914E-09	2.302E-09	1.861E-09	1.540E-09	1.298E-09
NNW	4.125E-08	2.312E-08	1.459E-08	7.877E-09	4.956E-09	3.445E-09	2.575E-09	2.013E-09	1.655E-09	1.383E-09	1.169E-09
N	1.905E-08	1.165E-08	9.492E-09	7.344E-09	5.683E-09	4.271E-09	3.237E-09	2.553E-09	2.073E-09	1.724E-09	1.461E-09
NNE	1.492E-08	1.637E-08	1.014E-08	5.399E-09	3.427E-09	2.403E-09	1.795E-09	1.400E-09	1.127E-09	9.301E-10	7.823E-10
NE	5.456E-09	8.807E-09	5.529E-09	2.981E-09	1.890E-09	1.324E-09	1.005E-09	7.967E-10	6.492E-10	5.404E-10	4.582E-10
ENE	3.160E-09	4.165E-09	2.630E-09	1.416E-09	8.871E-10	6.144E-10	4.643E-10	3.653E-10	2.943E-10	2.430E-10	2.045E-10
E	5.412E-09	6.972E-09	4.416E-09	2.390E-09	1.503E-09	1.045E-09	7.732E-10	5.978E-10	4.866E-10	4.047E-10	3.396E-10
ESE	7.522E-09	9.9[illegible]09	6.451E-09	3.574E-09	2.284E-09	1.605E-09	1.199E-09	9.336E-10	7.499E-10	6.167E-10	5.169E-10
SE	9.777E-09	5.[illegible]09	4.463E-09	3.221E-09	2.343E-09	1.821E-09	1.476E-09	1.229E-09	1.010E-09	8.485E-10	7.251E-10
SSE	3.337E-08	1.[illegible]-08	1.050E-08	5.474E-09	3.417E-09	2.365E-09	1.747E-09	1.350E-09	1.078E-09	8.827E-10	7.374E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES									
S	1.351E-07	8.150E-08	4.735E-08	3.348E-08	3.305E-08	1.849E-08	6.499E-09	2.831E-09	1.614E-09	1.064E-09
SSW	6.504E-08	4.702E-08	3.529E-08	3.537E-08	3.066E-08	1.960E-08	7.483E-09	3.332E-09	1.949E-09	1.296E-09
SW	7.622E-08	8.075E-08	4.285E-08	2.355E-08	1.528E-08	7.424E-09	2.492E-09	1.068E-09	6.117E-10	4.011E-10
WSW	1.367E-07	1.665E-07	8.609E-08	4.612E-08	2.948E-08	1.383E-08	4.742E-09	2.060E-09	1.187E-09	7.842E-10
W	2.030E-07	1.675E-07	8.185E-08	4.524E-08	2.932E-08	1.365E-08	5.094E-09	2.347E-09	1.369E-09	9.124E-10
WNW	1.529E-07	1.924E-07	9.946E-08	5.549E-08	3.527E-08	1.560E-08	5.154E-09	2.200E-09	1.265E-09	8.356E-10
NW	1.838E-07	2.832E-07	1.493E-07	8.173E-08	5.237E-08	2.428E-08	8.751E-09	3.902E-09	2.309E-09	1.545E-09
NNW	1.429E-07	1.147E-07	9.075E-08	7.157E-08	4.907E-08	2.336E-08	8.071E-09	3.500E-09	2.037E-09	1.384E-09
N	1.075E-07	6.897E-08	4.417E-08	3.000E-08	2.183E-08	1.234E-08	7.083E-09	4.234E-09	2.566E-09	1.730E-09
NNE	7.067E-08	4.290E-08	2.698E-08	1.861E-08	1.481E-08	1.328E-08	5.576E-09	2.432E-09	1.409E-09	9.338E-10
NE	2.531E-08	1.476E-08	9.025E-09	6.294E-09	5.208E-09	6.605E-09	3.063E-09	1.347E-09	7.999E-10	5.422E-10
ENE	5.402E-09	6.390E-09	5.046E-09	3.741E-09	3.098E-09	3.260E-09	1.451E-09	6.271E-10	3.666E-10	2.440E-10
E	1.949E-08	1.334E-08	9.280E-09	6.660E-09	5.389E-09	5.490E-09	2.446E-09	1.058E-09	6.056E-10	4.049E-10
ESE	4.587E-08	2.445E-08	1.441E-08	9.776E-09	7.647E-09	7.870E-09	3.640E-09	1.624E-09	9.394E-10	6.192E-10
SE	5.397E-08	3.799E-08	2.377E-08	1.575E-08	1.129E-08	6.095E-09	3.107E-09	1.823E-09	1.216E-09	8.505E-10
SSE	9.677E-08	7.086E-08	4.445E-08	3.320E-08	3.617E-08	1.782E-08	5.677E-09	2.398E-09	1.360E-09	8.867E-10

ERP ELEVATED STACK RELEASES - APR-JUN 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.121E-08	8.654E-09	6.663E-09	4.204E-09	1.891E-09	1.120E-09	7.429E-10	5.282E-10	3.935E-10	3.126E-10	2.797E-10
SSW	2.763E-09	2.280E-09	1.986E-09	1.399E-09	6.950E-10	4.299E-10	2.919E-10	2.101E-10	1.895E-10	1.435E-10	1.224E-10
SW	3.846E-09	3.055E-09	2.489E-09	1.656E-09	1.250E-09	6.719E-10	4.145E-10	2.809E-10	2.028E-10	1.534E-10	1.202E-10
WSW	5.772E-09	4.604E-09	3.778E-09	4.294E-09	1.961E-09	1.050E-09	6.460E-10	4.368E-10	3.150E-10	2.381E-10	1.864E-10
W	5.746E-09	8.949E-09	6.144E-09	3.510E-09	1.543E-09	8.154E-10	4.982E-10	3.353E-10	2.410E-10	1.816E-10	1.422E-10
WNW	3.046E-09	2.549E-09	4.707E-09	3.097E-09	1.787E-09	8.989E-10	5.340E-10	3.548E-10	2.635E-10	2.031E-10	1.652E-10
NW	5.262E-09	4.401E-09	3.919E-09	5.375E-09	3.228E-09	1.605E-09	9.468E-10	6.248E-10	4.475E-10	3.415E-10	2.746E-10
NNW	8.470E-09	6.491E-09	4.926E-09	3.063E-09	2.070E-09	1.101E-09	6.764E-10	5.207E-10	3.750E-10	2.875E-10	2.318E-10
N	1.093E-08	8.410E-09	6.431E-09	4.029E-09	1.800E-09	1.062E-09	7.034E-10	4.995E-10	3.719E-10	2.867E-10	2.269E-10
NNE	5.200E-09	4.032E-09	3.134E-09	1.996E-09	9.066E-10	5.392E-10	3.555E-10	2.552E-10	1.903E-10	1.467E-10	1.161E-10
NE	1.099E-09	8.753E-10	7.162E-10	4.786E-10	2.273E-10	1.379E-10	9.273E-11	6.640E-11	4.965E-11	3.834E-11	3.035E-11
ENE	5.524E-10	4.544E-10	3.937E-10	2.762E-10	1.367E-10	8.443E-11	5.729E-11	4.123E-11	3.090E-11	2.389E-11	1.891E-11
E	1.910E-09	1.448E-09	1.075E-09	6.529E-10	2.824E-10	1.641E-10	1.077E-10	7.608E-11	5.651E-11	4.350E-11	3.444E-11
ESE	6.530E-09	4.859E-09	3.459E-09	2.004E-09	8.217E-10	4.642E-10	2.997E-10	2.098E-10	1.551E-10	1.192E-10	9.432E-11
SE	6.311E-09	4.975E-09	3.993E-09	2.622E-09	1.226E-09	7.390E-10	4.950E-10	3.537E-10	2.642E-10	2.039E-10	1.614E-10
SSE	8.269E-09	6.716E-09	5.692E-09	3.922E-09	1.912E-09	1.174E-09	7.938E-10	5.702E-10	4.271E-10	3.949E-10	3.349E-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	2.254E-10	1.253E-10	8.046E-11	4.457E-11	2.848E-11	2.278E-11	1.633E-11	1.226E-11	9.458E-12	7.539E-12	6.153E-12
SSW	9.199E-11	6.966E-11	4.856E-11	2.873E-11	1.837E-11	1.231E-11	8.847E-12	6.661E-12	5.252E-12	4.195E-12	3.424E-12
SW	9.738E-11	5.347E-11	3.407E-11	1.868E-11	1.186E-11	9.473E-12	6.853E-12	5.211E-12	4.052E-12	3.237E-12	2.642E-12
WSW	1.519E-10	8.557E-11	5.527E-11	3.708E-11	2.246E-11	1.508E-11	1.084E-11	8.141E-12	6.329E-12	5.056E-12	4.127E-12
W	1.344E-10	5.181E-11	5.122E-11	3.078E-11	2.064E-11	1.390E-11	9.962E-12	7.480E-12	5.816E-12	4.646E-12	3.792E-12
WNW	1.410E-10	8.172E-11	5.724E-11	3.400E-11	2.175E-11	1.497E-11	1.050E-11	7.883E-12	6.155E-12	4.916E-12	4.013E-12
NW	2.314E-10	1.287E-10	8.820E-11	5.702E-11	3.494E-11	2.345E-11	1.652E-11	1.241E-11	9.660E-12	7.717E-12	6.298E-12
NNW	1.956E-10	1.090E-10	7.488E-11	4.401E-11	2.836E-11	1.931E-11	1.440E-11	1.097E-11	8.163E-12	6.525E-12	5.328E-12
N	1.835E-10	8.785E-11	5.420E-11	2.933E-11	4.660E-11	3.046E-11	2.178E-11	1.636E-11	1.017E-11	8.307E-12	
NNE	9.390E-11	1.321E-10	8.124E-11	4.191E-11	2.560E-11	1.720E-11	1.234E-11	9.271E-12	7.210E-12	5.765E-12	4.709E-12
NE	2.452E-11	3.544E-11	2.338E-11	1.301E-11	8.134E-12	5.447E-12	3.609E-12	2.717E-12	2.097E-12	1.675E-12	1.367E-12
ENE	1.527E-11	1.592E-11	1.145E-11	6.946E-12	4.458E-12	2.985E-12	2.119E-12	1.495E-12	1.160E-12	9.260E-13	7.552E-13
E	2.787E-11	3.095E-11	2.273E-11	1.406E-11	9.116E-12	6.141E-12	4.384E-12	3.267E-12	2.520E-12	1.789E-12	1.460E-12
ESE	7.642E-11	7.159E-11	5.121E-11	3.116E-11	2.028E-11	1.381E-11	9.972E-12	7.520E-12	5.850E-12	4.702E-12	3.856E-12
SE	1.305E-10	6.232E-11	3.836E-11	2.067E-11	1.299E-11	9.128E-12	6.898E-12	7.256E-12	5.749E-12	4.701E-12	3.922E-12
SSE	2.714E-10	1.725E-10	1.060E-10	5.466E-11	3.335E-11	2.239E-11	1.605E-11	1.205E-11	9.370E-12	7.488E-12	6.114E-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	6.013E-09	2.062E-09	7.576E-10	4.611E-10	2.694E-10	1.276E-10	4.540E-11	2.172E-11	1.236E-11	7.594E-12
SSW	1.791E-09	7.337E-10	2.960E-10	1.779E-10	1.141E-10	6.524E-11	2.853E-11	1.254E-11	6.749E-12	4.223E-12
SW	2.245E-09	1.083E-09	4.297E-10	2.063E-10	1.216E-10	5.460E-11	1.907E-11	9.063E-12	5.239E-12	3.258E-12
WSW	4.191E-09	2.075E-09	6.701E-10	3.205E-10	1.889E-10	8.684E-11	3.463E-11	1.535E-11	8.222E-12	5.089E-12
W	5.597E-09	1.657E-09	5.176E-10	2.454E-10	1.437E-10	6.546E-11	3.081E-11	1.412E-11	7.555E-12	4.676E-12
WNW	3.512E-09	1.683E-09	5.597E-10	2.666E-10	1.675E-10	8.400E-11	3.372E-11	1.499E-11	7.971E-12	4.949E-12
NW	4.673E-09	2.984E-09	9.936E-10	4.578E-10	2.784E-10	1.335E-10	5.414E-11	2.374E-11	1.254E-11	7.767E-12
NNW	4.446E-09	1.860E-09	7.274E-10	3.833E-10	2.349E-10	1.131E-10	4.392E-11	1.976E-11	1.088E-11	6.567E-12
N	5.803E-09	1.967E-09	7.176E-10	3.759E-10	2.286E-10	9.415E-11	4.253E-11	3.129E-11	1.653E-11	1.024E-11
NNE	2.828E-09	9.855E-10	3.654E-10	1.922E-10	1.170E-10	1.010E-10	4.340E-11	1.749E-11	9.362E-12	5.802E-12
NE	6.459E-10	2.434E-10	9.425E-11	5.013E-11	3.056E-11	2.765E-11	1.315E-11	5.428E-12	2.736E-12	1.686E-12
ENE	3.550E-10	1.445E-10	5.810E-11	3.118E-11	1.904E-11	1.379E-11	6.842E-12	3.032E-12	1.546E-12	9.322E-13
E	9.703E-10	3.121E-10	1.101E-10	5.715E-11	3.469E-11	2.661E-11	1.379E-11	6.231E-12	3.302E-12	1.884E-12
ESE	3.123E-09	9.255E-10	3.076E-10	1.571E-10	9.505E-11	6.360E-11	3.078E-11	1.400E-11	7.584E-12	4.729E-12
SE	3.602E-09	1.320E-09	5.036E-10	2.668E-10	1.626E-10	6.681E-11	2.119E-11	9.265E-12	6.580E-12	4.723E-12
SSE	5.133E-09	2.030E-09	8.057E-10	4.557E-10	3.291E-10	1.649E-10	5.661E-11	2.278E-11	1.217E-11	7.537E-12

ERP ELEVATED STACK RELEASES - APR-JUN 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	1.457E-07	1.456E-07	1.425E-07	6.071E-09
A	SITE BOUNDARY	SSW	0.82	1327.	7.029E-08	7.010E-08	6.869E-08	1.798E-09
A	SITE BOUNDARY	SW	0.98	1569.	8.935E-08	8.922E-08	8.822E-08	1.734E-09
A	SITE BOUNDARY	WSW	0.93	1489.	1.635E-07	1.633E-07	1.615E-07	3.811E-09
A	SITE BOUNDARY	W	0.91	1468.	2.294E-07	2.291E-07	2.256E-07	4.185E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.968E-07	1.965E-07	1.946E-07	3.493E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.822E-07	1.820E-07	1.802E-07	3.626E-09
A	SITE BOUNDARY	NNW	0.69	1106.	1.550E-07	1.548E-07	1.520E-07	5.232E-09
A	SITE BOUNDARY	N	0.67	1086.	1.218E-07	1.217E-07	1.195E-07	6.899E-09
A	SITE BOUNDARY	NNE	0.60	965.	8.163E-08	8.148E-08	8.036E-08	3.603E-09
A	SITE BOUNDARY	NE	0.62	1005.	2.990E-08	2.982E-08	2.939E-08	7.804E-10
A	SITE BOUNDARY	ENE	0.59	945.	3.755E-09	3.754E-09	3.707E-09	4.259E-10
A	SITE BOUNDARY	E	0.53	845.	2.311E-08	2.308E-08	2.286E-08	1.401E-09
A	SITE BOUNDARY	ESE	0.54	865.	5.687E-08	5.684E-08	5.621E-08	4.602E-09
A	SITE BOUNDARY	SE	0.65	1046.	5.765E-08	5.762E-08	5.669E-08	4.301E-09
A	SITE BOUNDARY	SSE	0.81	1307.	1.013E-07	1.012E-07	9.939E-08	5.201E-09
A	NEAR. RESIDENCE	SSW	1.80	2897.	4.382E-08	4.362E-08	4.263E-08	5.018E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	1.029E-07	1.026E-07	1.013E-07	1.685E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	2.151E-07	2.147E-07	2.117E-07	2.647E-09
A	NEAR. RESIDENCE	W	1.00	1609.	2.301E-07	2.298E-07	2.261E-07	3.510E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.220E-07	2.214E-07	2.177E-07	1.531E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.219E-07	2.216E-07	2.196E-07	6.188E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.073E-07	1.070E-07	1.046E-07	1.234E-09
A	NEAR. RESIDENCE	N	3.00	4828.	3.767E-08	3.749E-08	3.621E-08	4.995E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	2.594E-08	2.581E-08	2.500E-08	3.109E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	6.630E-09	6.611E-09	6.508E-09	1.093E-10
A	NEAR. RESIDENCE	E	1.80	2897.	1.257E-08	1.253E-08	1.223E-08	1.918E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	1.569E-08	1.563E-08	1.512E-08	3.245E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	2.847E-08	2.840E-08	2.760E-08	6.233E-10
A	NEAREST COW	NNW	3.50	5633.	7.785E-08	7.729E-08	7.573E-08	3.749E-10
A	NEAREST GARDEN	SSW	1.80	2897.	4.382E-08	4.362E-08	4.263E-08	5.018E-10
A	NEAREST GARDEN	SW	2.20	3541.	5.449E-08	5.426E-08	5.267E-08	5.460E-10
A	NEAREST GARDEN	WSW	1.30	2092.	2.151E-07	2.147E-07	2.117E-07	2.647E-09
A	NEAREST GARDEN	WNW	2.30	3702.	1.157E-07	1.153E-07	1.123E-07	6.474E-10
A	NEAREST GARDEN	NW	0.90	1448.	2.219E-07	2.216E-07	2.196E-07	6.188E-09
A	NEAREST GARDEN	N	3.00	4828.	3.767E-08	3.749E-08	3.621E-08	4.995E-10
A	NEAREST GARDEN	ENE	1.70	2736.	6.630E-09	6.611E-09	6.508E-09	1.093E-10
A	NEAREST GARDEN	E	1.80	2897.	1.257E-08	1.253E-08	1.223E-08	1.918E-10
A	NEAREST GARDEN	ESE	2.60	4184.	1.438E-08	1.432E-08	1.383E-08	2.776E-10

Atmospheric Diffusion Estimates

Elevated Releases

January-June 1996

ERP ELEVATED STACK RELEASES - JAN-JUN 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.542E-08	1.071E-07	1.270E-07	1.160E-07	9.584E-08	7.576E-08	6.002E-08	4.842E-08	3.988E-08	4.348E-08	4.491E-08
SSW	3.188E-09	3.313E-08	4.426E-08	4.253E-08	3.822E-08	3.204E-08	2.647E-08	2.861E-08	2.965E-08	2.611E-08	2.329E-08
SW	1.795E-08	2.757E-08	4.274E-08	6.102E-08	7.563E-08	4.848E-08	3.364E-08	2.478E-08	1.911E-08	1.526E-08	1.253E-08
WSW	3.515E-08	3.939E-08	7.387E-08	1.131E-07	1.423E-07	8.573E-08	5.745E-08	4.142E-08	3.147E-08	2.486E-08	2.024E-08
W	6.581E-08	9.372E-08	1.461E-07	1.508E-07	1.259E-07	7.690E-08	5.212E-08	3.792E-08	2.903E-08	2.309E-08	1.891E-08
WNW	1.612E-08	3.807E-08	1.426E-07	2.283E-07	2.494E-07	1.466E-07	9.675E-08	7.113E-08	5.475E-08	4.276E-08	3.450E-08
NW	4.152E-08	5.525E-08	1.323E-07	2.377E-07	3.354E-07	1.943E-07	1.276E-07	9.272E-08	7.109E-08	5.586E-08	4.533E-08
NNW	4.453E-08	1.103E-07	1.236E-07	1.154E-07	1.150E-07	1.032E-07	9.233E-08	8.099E-08	7.143E-08	5.615E-08	4.559E-08
N	5.350E-08	8.086E-08	8.391E-08	7.042E-08	5.814E-08	4.976E-08	4.234E-08	3.549E-08	3.020E-08	2.607E-08	2.281E-08
NNE	2.815E-08	5.038E-08	5.827E-08	5.367E-08	4.811E-08	4.134E-08	3.501E-08	2.978E-08	2.560E-08	2.227E-08	1.961E-08
NE	1.313E-09	1.522E-08	1.937E-08	1.805E-08	1.699E-08	1.529E-08	1.340E-08	1.169E-08	1.026E-08	9.080E-09	8.115E-09
ENE	2.584E-11	1.463E-09	4.790E-09	7.550E-09	9.603E-09	9.159E-09	8.141E-09	7.136E-09	6.274E-09	5.561E-09	4.976E-09
E	1.579E-08	1.325E-08	1.412E-08	1.374E-08	1.322E-08	1.164E-08	9.982E-09	8.571E-09	7.430E-09	6.516E-09	5.781E-09
ESE	1.516E-08	4.264E-08	4.898E-08	4.234E-08	3.445E-08	2.797E-08	2.285E-08	1.897E-08	1.603E-08	1.378E-08	1.203E-08
SE	1.976E-08	5.741E-08	8.235E-08	8.729E-08	7.998E-08	6.488E-08	5.181E-08	4.189E-08	3.451E-08	2.896E-08	2.471E-08
SSE	5.860E-08	9.785E-08	1.193E-07	1.128E-07	9.560E-08	7.597E-08	6.029E-08	4.867E-08	4.013E-08	5.185E-08	5.951E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.921E-08	2.346E-08	1.496E-08	8.369E-09	5.657E-09	4.168E-09	3.220E-09	2.591E-09	2.155E-09	1.831E-09	1.580E-09
SSW	2.164E-08	1.557E-08	1.004E-08	5.699E-09	3.926E-09	2.906E-09	2.255E-09	1.822E-09	1.517E-09	1.290E-09	1.116E-09
SW	1.097E-08	6.505E-09	4.127E-09	2.290E-09	1.530E-09	1.117E-09	8.633E-10	6.918E-10	5.714E-10	4.830E-10	4.157E-10
WSW	1.729E-08	9.648E-09	6.307E-09	3.567E-09	2.356E-09	1.711E-09	1.320E-09	1.060E-09	8.779E-10	7.436E-10	6.412E-10
W	1.586E-08	8.448E-09	5.774E-09	3.480E-09	2.410E-09	1.766E-09	1.370E-09	1.106E-09	9.196E-10	7.818E-10	6.764E-10
WNW	2.873E-08	1.491E-08	9.604E-09	5.413E-09	3.586E-09	2.608E-09	2.012E-09	1.615E-09	1.335E-09	1.128E-09	9.712E-10
NW	3.808E-08	2.058E-08	1.375E-08	8.169E-09	5.481E-09	4.032E-09	3.196E-09	2.605E-09	2.172E-09	1.850E-09	1.604E-09
NNW	3.870E-08	2.158E-08	1.399E-08	8.035E-09	5.450E-09	4.041E-09	3.188E-09	2.611E-09	2.216E-09	1.905E-09	1.656E-09
N	2.023E-08	1.294E-08	1.087E-08	8.555E-09	6.754E-09	5.314E-09	4.158E-09	3.376E-09	2.816E-09	2.401E-09	2.083E-09
NNE	2.194E-08	2.652E-08	1.707E-08	9.695E-09	6.523E-09	4.807E-09	3.750E-09	3.043E-09	2.540E-09	2.167E-09	1.881E-09
NE	9.580E-09	1.560E-08	1.017E-08	5.876E-09	3.999E-09	2.972E-09	2.360E-09	1.938E-09	1.631E-09	1.396E-09	1.216E-09
ENE	5.717E-09	1.107E-08	7.393E-09	4.398E-09	3.046E-09	2.292E-09	1.900E-09	1.603E-09	1.349E-09	1.160E-09	1.013E-09
E	6.479E-09	1.151E-08	7.673E-09	4.558E-09	3.155E-09	2.374E-09	1.883E-09	1.549E-09	1.350E-09	1.189E-09	1.039E-09
ESE	1.263E-08	1.658E-08	1.104E-08	6.544E-09	4.520E-09	3.394E-09	2.686E-09	2.205E-09	1.859E-09	1.599E-09	1.398E-09
SE	2.140E-08	1.252E-08	9.184E-09	6.071E-09	4.261E-09	3.227E-09	2.565E-09	2.108E-09	1.750E-09	1.486E-09	1.283E-09
SSE	5.018E-08	2.689E-08	1.706E-08	9.504E-09	6.316E-09	4.610E-09	3.569E-09	2.877E-09	2.389E-09	2.028E-09	1.753E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.177E-07	9.140E-08	5.958E-08	4.369E-08	4.238E-08	2.318E-08	8.628E-09	4.186E-09	2.604E-09	1.834E-09
SSW	4.102E-08	3.643E-08	2.881E-08	2.800E-08	2.351E-08	1.446E-08	5.875E-09	2.918E-09	1.830E-09	1.293E-09
SW	4.750E-08	6.032E-08	3.405E-08	1.927E-08	1.276E-08	6.439E-09	2.360E-09	1.125E-09	6.950E-10	4.842E-10
WSW	8.362E-08	1.107E-07	5.858E-08	3.180E-08	2.052E-08	9.861E-09	3.638E-09	1.727E-09	1.065E-09	7.454E-10
W	1.365E-07	1.096E-07	5.305E-08	2.931E-08	1.902E-08	8.906E-09	3.514E-09	1.779E-09	1.110E-09	7.836E-10
WNW	1.575E-07	1.990E-07	9.980E-08	5.486E-08	3.481E-08	1.562E-08	5.533E-09	2.630E-09	1.622E-09	1.131E-09
NW	1.620E-07	2.510E-07	1.314E-07	7.147E-08	4.577E-08	2.143E-08	8.214E-09	4.084E-09	2.609E-09	1.854E-09
NNW	1.170E-07	1.098E-07	9.069E-08	6.834E-08	4.617E-08	2.201E-08	8.210E-09	4.076E-09	2.625E-09	1.905E-09
N	7.724E-08	5.715E-08	4.158E-08	3.014E-08	2.282E-08	1.364E-08	8.269E-09	5.236E-09	3.386E-09	2.406E-09
NNE	5.447E-08	4.634E-08	3.461E-08	2.552E-08	2.126E-08	2.130E-08	9.923E-09	4.842E-09	3.054E-09	2.172E-09
NE	1.786E-08	1.647E-08	1.322E-08	1.022E-08	8.943E-09	1.185E-08	5.995E-09	3.001E-09	1.942E-09	1.399E-09
ENE	5.277E-09	8.950E-09	8.010E-09	6.248E-09	5.424E-09	8.246E-09	4.463E-09	2.336E-09	1.591E-09	1.161E-09
E	1.376E-08	1.263E-08	9.859E-09	7.408E-09	6.257E-09	8.686E-09	4.627E-09	2.386E-09	1.568E-09	1.181E-09
ESE	4.462E-08	3.332E-08	2.266E-08	1.601E-08	1.277E-08	1.324E-08	6.645E-09	3.411E-09	2.211E-09	1.602E-09
SE	7.900E-08	7.490E-08	5.133E-08	3.451E-08	2.474E-08	1.301E-08	5.959E-09	3.238E-09	2.102E-09	1.489E-09
SSE	1.117E-07	9.071E-08	5.983E-08	4.704E-08	5.379E-08	2.769E-08	9.765E-09	4.648E-09	2.889E-09	2.033E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.541E-08	1.071E-07	1.269E-07	1.159E-07	9.566E-08	7.556E-08	5.982E-08	4.822E-08	3.969E-08	4.322E-08	4.459E-08
SSW	3.184E-09	3.307E-08	4.415E-08	4.243E-08	3.810E-08	3.191E-08	2.633E-08	2.842E-08	2.940E-08	2.585E-08	2.302E-08
SW	1.794E-08	2.756E-08	4.270E-08	6.092E-08	7.541E-08	4.829E-08	3.347E-08	2.464E-08	1.898E-08	1.514E-08	1.241E-08
WSW	3.512E-08	3.935E-08	7.378E-08	1.129E-07	1.419E-07	8.540E-08	5.717E-08	4.117E-08	3.125E-08	2.466E-08	2.006E-08
W	6.577E-08	9.366E-08	1.459E-07	1.505E-07	1.255E-07	7.658E-08	5.184E-08	3.767E-08	2.881E-08	2.289E-08	1.872E-08
WNW	1.611E-08	3.804E-08	1.425E-07	2.279E-07	2.489E-07	1.462E-07	9.638E-08	7.080E-08	5.445E-08	4.249E-08	3.426E-08
NW	4.149E-08	5.520E-08	1.322E-07	2.373E-07	3.345E-07	1.935E-07	1.270E-07	9.218E-08	7.059E-08	5.541E-08	4.491E-08
NNW	4.452E-08	1.102E-07	1.235E-07	1.152E-07	1.147E-07	1.029E-07	9.195E-08	8.055E-08	7.095E-08	5.571E-08	4.519E-08
N	5.349E-08	8.080E-08	8.381E-08	7.032E-08	5.801E-08	4.960E-08	4.216E-08	3.531E-08	3.001E-08	2.589E-08	2.262E-08
NNE	2.812E-08	5.031E-08	5.816E-08	5.356E-08	4.797E-08	4.119E-08	3.485E-08	2.961E-08	2.543E-08	2.210E-08	1.945E-08
NE	1.311E-09	1.519E-08	1.932E-08	1.801E-08	1.694E-08	1.523E-08	1.333E-08	1.163E-08	1.019E-08	9.013E-09	8.048E-09
ENE	2.583E-11	1.463E-09	4.785E-09	7.537E-09	9.573E-09	9.118E-09	8.093E-09	7.084E-09	6.220E-09	5.505E-09	4.920E-09
E	1.576E-08	1.323E-08	1.410E-08	1.372E-08	1.319E-08	1.160E-08	9.937E-09	8.524E-09	7.382E-09	6.467E-09	5.732E-09
ESE	1.516E-08	4.262E-08	4.894E-08	4.229E-08	3.439E-08	2.790E-08	2.277E-08	1.889E-08	1.596E-08	1.371E-08	1.195E-08
SE	1.976E-08	5.739E-08	8.230E-08	8.722E-08	7.987E-08	6.476E-08	5.168E-08	4.177E-08	3.439E-08	2.884E-08	2.459E-08
SSE	5.858E-08	9.780E-08	1.192E-07	1.127E-07	9.544E-08	7.581E-08	6.012E-08	4.851E-08	3.997E-08	5.159E-08	5.915E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.889E-08	2.315E-08	1.469E-08	8.139E-09	5.449E-09	3.974E-09	3.041E-09	2.423E-09	1.996E-09	1.679E-09	1.435E-09
SSW	2.136E-08	1.522E-08	9.738E-09	5.444E-09	3.689E-09	2.687E-09	2.053E-09	1.632E-09	1.337E-09	1.120E-09	9.540E-10
SW	1.086E-08	6.408E-09	4.045E-09	2.223E-09	1.470E-09	1.063E-09	8.143E-10	6.465E-10	5.290E-10	4.430E-10	3.778E-10
WSW	1.711E-08	9.497E-09	6.175E-09	3.454E-09	2.257E-09	1.622E-09	1.238E-09	9.840E-10	8.061E-10	6.756E-10	5.765E-10
W	1.568E-08	8.302E-09	5.638E-09	3.355E-09	2.293E-09	1.660E-09	1.271E-09	1.014E-09	8.326E-10	6.992E-10	5.976E-10
WNW	2.851E-08	1.473E-08	9.456E-09	5.289E-09	3.477E-09	2.509E-09	1.921E-09	1.530E-09	1.255E-09	1.053E-09	8.992E-10
NW	3.768E-08	2.023E-08	1.343E-08	7.872E-09	5.215E-09	3.786E-09	2.959E-09	2.380E-09	1.958E-09	1.647E-09	1.409E-09
NNW	3.832E-08	2.125E-08	1.370E-08	7.783E-09	5.222E-09	3.830E-09	2.989E-09	2.420E-09	2.031E-09	1.726E-09	1.485E-09
N	2.005E-08	1.276E-08	1.066E-08	8.295E-09	6.475E-09	5.038E-09	3.901E-09	3.134E-09	2.588E-09	2.184E-09	1.875E-09
NNE	2.174E-08	2.616E-08	1.676E-08	9.435E-09	6.292E-09	4.595E-09	3.553E-09	2.858E-09	2.365E-09	2.000E-09	1.721E-09
NE	9.488E-09	1.534E-08	9.941E-09	5.680E-09	3.822E-09	2.809E-09	2.206E-09	1.791E-09	1.490E-09	1.261E-09	1.086E-09
ENE	5.646E-09	1.089E-08	7.236E-09	4.261E-09	2.920E-09	2.176E-09	1.787E-09	1.494E-09	1.245E-09	1.060E-09	9.172E-10
E	6.416E-09	1.133E-08	7.514E-09	4.417E-09	3.026E-09	2.254E-09	1.770E-09	1.441E-09	1.244E-09	1.086E-09	9.395E-10
ESE	1.255E-08	1.638E-08	1.087E-08	6.395E-09	4.379E-09	3.262E-09	2.561E-09	2.086E-09	1.745E-09	1.490E-09	1.292E-09
SE	2.128E-08	1.241E-08	9.072E-09	5.947E-09	4.140E-09	3.108E-09	2.449E-09	1.995E-09	1.643E-09	1.383E-09	1.185E-09
SSE	4.984E-08	2.660E-08	1.682E-08	9.302E-09	6.136E-09	4.446E-09	3.417E-09	2.734E-09	2.254E-09	1.900E-09	1.630E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.176E-07	9.122E-08	5.938E-08	4.347E-08	4.207E-08	2.289E-08	8.399E-09	3.994E-09	2.437E-09	1.683E-09
SSW	4.092E-08	3.631E-08	2.865E-08	2.777E-08	2.324E-08	1.415E-08	5.618E-09	2.700E-09	1.640E-09	1.123E-09
SW	4.743E-08	6.014E-08	3.389E-08	1.913E-08	1.264E-08	6.346E-09	2.293E-09	1.072E-09	6.497E-10	4.443E-10
WSW	8.351E-08	1.103E-07	5.830E-08	3.158E-08	2.033E-08	9.712E-09	3.527E-09	1.638E-09	9.887E-10	6.776E-10
W	1.364E-07	1.093E-07	5.277E-08	2.909E-08	1.883E-08	8.757E-09	3.390E-09	1.673E-09	1.018E-09	7.011E-10
WNW	1.573E-07	1.986E-07	9.943E-08	5.457E-08	3.457E-08	1.545E-08	5.410E-09	2.532E-09	1.537E-09	1.056E-09
NW	1.618E-07	2.503E-07	1.308E-07	7.097E-08	4.534E-08	2.109E-08	7.926E-09	3.836E-09	2.385E-09	1.651E-09
NNW	1.168E-07	1.096E-07	9.029E-08	6.789E-08	4.576E-08	2.169E-08	7.961E-09	3.865E-09	2.434E-09	1.727E-09
N	7.715E-08	5.701E-08	4.140E-08	2.996E-08	2.264E-08	1.345E-08	8.011E-09	4.967E-09	3.145E-09	2.189E-09
NNE	5.437E-08	4.620E-08	3.445E-08	2.536E-08	2.198E-08	2.100E-08	9.665E-09	4.631E-09	2.869E-09	2.005E-09
NE	1.782E-08	1.642E-08	1.316E-08	1.015E-08	8.607E-09	1.164E-08	5.801E-09	2.838E-09	1.795E-09	1.264E-09
ENE	5.270E-09	8.918E-09	7.963E-09	6.195E-09	5.362E-09	8.101E-09	4.326E-09	2.219E-09	1.483E-09	1.062E-09
E	1.374E-08	1.260E-08	9.814E-09	7.360E-09	6.203E-09	8.541E-09	4.487E-09	2.266E-09	1.460E-09	1.078E-09
ESE	4.458E-08	3.326E-08	2.259E-08	1.594E-08	1.269E-08	1.308E-08	6.492E-09	3.279E-09	2.092E-09	1.492E-09
SE	7.895E-08	7.479E-08	5.120E-08	3.438E-08	2.462E-08	1.290E-08	5.838E-09	3.120E-09	1.991E-09	1.387E-09
SSE	1.116E-07	9.055E-08	5.966E-08	4.684E-08	5.346E-08	2.742E-08	9.565E-09	4.485E-09	2.746E-09	1.905E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	4.541E-08	1.062E-07	1.247E-07	1.139E-07	9.379E-08	7.369E-08	5.798E-08	4.646E-08	3.803E-08	4.141E-08	4.273E-08
SSW	3.187E-09	3.282E-08	4.343E-08	4.178E-08	3.747E-08	3.124E-08	2.565E-08	2.766E-08	2.861E-08	2.511E-08	2.234E-08
SW	1.795E-08	2.733E-08	4.213E-08	6.045E-08	7.438E-08	4.717E-08	3.243E-08	2.370E-08	1.814E-08	1.439E-08	1.174E-08
WSW	3.514E-08	3.903E-08	7.283E-08	1.119E-07	1.397E-07	8.334E-08	5.538E-08	3.963E-08	2.991E-08	2.349E-08	1.903E-08
W	6.580E-08	9.212E-08	1.438E-07	1.481E-07	1.228E-07	7.450E-08	5.019E-08	3.633E-08	2.769E-08	2.194E-08	1.790E-08
WNW	1.612E-08	3.779E-08	1.418E-07	2.257E-07	2.444E-07	1.422E-07	9.301E-08	6.792E-08	5.197E-08	4.032E-08	3.231E-08
NW	4.151E-08	5.475E-08	1.307E-07	2.352E-07	3.299E-07	1.891E-07	1.233E-07	8.905E-08	6.793E-08	5.307E-08	4.280E-08
NNW	4.453E-08	1.093E-07	1.212E-07	1.132E-07	1.128E-07	1.009E-07	9.007E-08	7.890E-08	6.952E-08	5.439E-08	4.394E-08
N	5.350E-08	8.012E-08	8.220E-08	6.891E-08	5.683E-08	4.850E-08	4.111E-08	3.434E-08	2.911E-08	2.506E-08	2.185E-08
NNE	2.814E-08	4.992E-08	5.713E-08	5.263E-08	4.712E-08	4.034E-08	3.403E-08	2.884E-08	2.470E-08	2.143E-08	1.881E-08
NE	1.312E-09	1.508E-08	1.899E-08	1.771E-08	1.667E-08	1.497E-08	1.308E-08	1.138E-08	9.964E-09	8.800E-09	7.850E-09
ENE	2.584E-11	1.452E-09	4.746E-09	7.503E-09	9.491E-09	8.993E-09	7.947E-09	6.931E-09	6.069E-09	5.359E-09	4.782E-09
E	1.578E-08	1.312E-08	1.385E-08	1.349E-08	1.2[illegible]E-08	1.137E-08	9.710E-09	8.306E-09	7.176E-09	6.274E-09	5.552E-09
ESE	1.516E-08	4.225E-08	4.801E-08	4.145E-08	3.3[illegible]	2.723E-08	2.214E-08	1.829E-08	1.540E-08	1.319E-08	1.147E-08
SE	1.976E-08	5.691E-08	8.108E-08	8.613E-08	7.86[illegible]	6.332E-08	5.018E-08	4.028E-08	3.296E-08	2.748E-08	2.331E-08
SSE	5.859E-08	9.697E-08	1.172E-07	1.109E-07	9.36[illegible]	7.396E-08	5.828E-08	4.674E-08	3.829E-08	4.959E-08	5.706E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.716E-08	2.174E-08	1.342E-08	7.057E-09	4.470E-09	3.114E-09	2.294E-09	1.768E-09	1.416E-09	1.166E-09	9.776E-10
SSW	2.073E-08	1.466E-08	9.131E-09	4.839E-09	3.094E-09	2.189E-09	1.635E-09	1.275E-09	1.027E-09	8.474E-10	7.126E-10
SW	1.023E-08	5.921E-09	3.637E-09	1.901E-09	1.195E-09	8.283E-10	6.166E-10	4.774E-10	3.819E-10	3.134E-10	2.623E-10
WSW	1.618E-08	8.785E-09	5.564E-09	2.973E-09	1.872E-09	1.306E-09	9.709E-10	7.546E-10	6.060E-10	4.988E-10	4.188E-10
W	1.496E-08	7.852E-09	5.286E-09	3.000E-09	1.951E-09	1.373E-09	1.027E-09	8.021E-10	6.468E-10	5.345E-10	4.502E-10
WNW	2.672E-08	1.340E-08	8.355E-09	4.418E-09	2.736E-09	1.892E-09	1.404E-09	1.089E-09	8.717E-10	7.155E-10	5.990E-10
NW	3.574E-08	1.870E-08	1.209E-08	6.732E-09	4.230E-09	2.941E-09	2.228E-09	1.752E-09	1.413E-09	1.167E-09	9.823E-10
NNW	3.709E-08	2.004E-08	1.254E-08	6.699E-09	4.186E-09	2.895E-09	2.152E-09	1.677E-09	1.369E-09	1.139E-09	9.605E-10
N	1.933E-08	1.225E-08	1.026E-08	8.065E-09	6.214E-09	4.644E-09	3.519E-09	2.775E-09	2.254E-09	1.875E-09	1.589E-09
NNE	2.111E-08	2.545E-08	1.581E-08	8.446E-09	5.364E-09	3.765E-09	2.814E-09	2.198E-09	1.772E-09	1.463E-09	1.232E-09
NE	9.299E-09	1.512E-08	9.510E-09	5.135E-09	3.256E-09	2.280E-09	1.729E-09	1.371E-09	1.118E-09	9.302E-10	7.881E-10
ENE	5.508E-09	1.075E-08	6.936E-09	3.835E-09	2.438E-09	1.708E-09	1.329E-09	1.078E-09	8.691E-10	7.229E-10	6.125E-10
E	6.241E-09	1.117E-08	7.192E-09	3.970E-09	2.524E-09	1.767E-09	1.316E-09	1.023E-09	8.469E-10	7.131E-10	6.015E-10
ESE	1.207E-08	1.597E-08	1.030E-08	5.694E-09	3.632E-09	2.549E-09	1.901E-09	1.480E-09	1.188E-09	9.768E-10	8.185E-10
SE	2.807E-08	1.148E-08	8.309E-09	5.396E-09	3.726E-09	2.785E-09	2.190E-09	1.778E-09	1.442E-09	1.198E-09	1.014E-09
SSE	4.781E-08	2.478E-08	1.516E-08	7.940E-09	4.983E-09	3.464E-09	2.570E-09	1.993E-09	1.597E-09	1.312E-09	1.100E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.158E-07	8.932E-08	5.756E-08	4.172E-08	4.027E-08	2.147E-08	7.321E-09	3.148E-09	1.784E-09	1.170E-09
SSW	4.034E-08	3.566E-08	2.794E-08	2.700E-08	2.256E-08	1.355E-08	5.017E-09	2.209E-09	1.283E-09	8.507E-10
SW	4.698E-08	5.919E-08	3.287E-08	1.830E-08	1.197E-08	5.864E-09	1.973E-09	8.413E-10	4.808E-10	3.148E-10
WSW	8.268E-08	1.085E-07	5.653E-08	3.024E-08	1.930E-08	8.997E-09	3.060E-09	1.323E-09	7.598E-10	5.009E-10
W	1.342E-07	1.070E-07	5.113E-08	2.797E-08	1.800E-08	8.290E-09	3.042E-09	1.389E-09	8.071E-10	5.365E-10
WNW	1.560E-07	1.948E-07	9.608E-08	5.209E-08	3.261E-08	1.412E-08	4.545E-09	1.922E-09	1.096E-09	7.186E-10
NW	1.603E-07	2.463E-07	1.272E-07	6.830E-08	4.323E-08	1.955E-08	6.811E-09	3.000E-09	1.759E-09	1.171E-09
NNW	1.150E-07	1.076E-07	8.848E-08	6.644E-08	4.450E-08	2.050E-08	6.881E-09	2.942E-09	1.696E-09	1.141E-09
N	7.583E-08	5.581E-08	4.037E-08	2.906E-08	2.187E-08	1.294E-08	7.731E-09	4.613E-09	2.789E-09	1.882E-09
NNE	5.353E-08	4.533E-08	3.364E-08	2.464E-08	2.044E-08	2.020E-08	8.713E-09	3.811E-09	2.212E-09	1.469E-09
NE	1.755E-08	1.614E-08	1.290E-08	9.925E-09	8.668E-09	1.133E-08	5.272E-09	2.320E-09	1.377E-09	9.333E-10
ENE	5.239E-09	8.828E-09	7.820E-09	6.045E-09	5.222E-09	7.891E-09	3.903E-09	1.751E-09	1.067E-09	7.253E-10
E	1.353E-08	1.237E-08	9.591E-09	7.155E-09	6.021E-09	8.307E-09	4.043E-09	1.789E-09	1.040E-09	7.114E-10
ESE	4.381E-08	3.253E-08	2.196E-08	1.538E-08	1.220E-08	1.258E-08	5.801E-09	2.579E-09	1.489E-09	9.808E-10
SE	7.796E-08	7.349E-08	4.973E-08	3.297E-08	2.334E-08	1.198E-08	5.301E-09	2.798E-09	1.767E-09	1.202E-09
SSE	1.099E-07	8.873E-08	5.784E-08	4.501E-08	5.142E-08	2.563E-08	8.231E-09	3.511E-09	2.007E-09	1.318E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	9.291E-09	7.636E-09	6.606E-09	4.628E-09	2.288E-09	1.413E-09	9.583E-10	6.895E-10	5.168E-10	4.233E-10	3.753E-10
SSW	1.559E-09	1.453E-09	1.508E-09	1.199E-09	6.497E-10	4.157E-10	2.871E-10	2.086E-10	1.936E-10	1.464E-10	1.147E-10
SW	1.942E-09	1.602E-09	1.393E-09	9.802E-10	8.063E-10	4.353E-10	2.690E-10	1.825E-10	1.318E-10	9.973E-11	7.810E-11
WSW	3.048E-09	2.489E-09	2.130E-09	2.577E-09	1.215E-09	6.522E-10	4.015E-10	2.716E-10	1.959E-10	1.481E-10	1.159E-10
W	3.573E-09	5.631E-09	3.876E-09	2.213E-09	9.693E-10	5.135E-10	3.141E-10	2.116E-10	1.522E-10	1.148E-10	8.983E-11
WNW	1.991E-09	1.892E-09	5.055E-09	3.494E-09	2.096E-09	1.053E-09	6.238E-10	4.120E-10	3.012E-10	2.284E-10	1.824E-10
NW	5.542E-09	4.526E-09	3.874E-09	4.938E-09	2.923E-09	1.454E-09	8.573E-10	5.653E-10	4.039E-10	3.073E-10	2.460E-10
NNW	7.279E-09	5.614E-09	4.318E-09	2.721E-09	1.885E-09	1.005E-09	6.190E-10	4.813E-10	3.487E-10	2.695E-10	2.195E-10
N	8.652E-09	6.671E-09	5.127E-09	3.229E-09	1.450E-09	8.580E-10	5.689E-10	4.043E-10	3.012E-10	2.322E-10	1.838E-10
NNE	3.466E-09	2.844E-09	2.454E-09	1.715E-09	8.465E-10	5.223E-10	3.541E-10	2.548E-10	1.909E-10	1.476E-10	1.168E-10
NE	7.005E-10	6.125E-10	5.838E-10	4.395E-10	2.295E-10	1.448E-10	9.935E-11	7.190E-11	5.406E-11	4.183E-11	3.312E-11
ENE	2.858E-10	2.786E-10	3.051E-10	2.500E-10	1.381E-10	8.900E-11	6.168E-11	4.488E-11	3.383E-11	2.621E-11	2.075E-11
E	1.103E-09	8.749E-10	7.103E-10	4.714E-10	2.225E-10	1.347E-10	9.039E-11	6.468E-11	4.834E-11	3.732E-11	2.955E-11
ESE	5.221E-09	4.041E-09	3.130E-09	1.986E-09	8.989E-10	5.338E-10	3.546E-10	2.523E-10	1.880E-10	1.450E-10	1.148E-10
SE	7.544E-09	6.489E-09	6.037E-09	4.468E-09	2.305E-09	1.448E-09	9.907E-10	7.161E-10	5.380E-10	4.162E-10	3.296E-10
SSE	1.108E-08	9.031E-09	7.703E-09	5.335E-09	2.613E-09	1.607E-09	1.088E-09	7.818E-10	5.857E-10	5.420E-10	4.706E-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	3.019E-10	1.633E-10	1.033E-10	5.612E-11	3.537E-11	2.986E-11	2.138E-11	1.603E-11	1.242E-11	9.887E-12	8.070E-12
SSW	9.298E-11	6.152E-11	4.133E-11	2.364E-11	1.629E-11	1.097E-11	7.873E-12	5.920E-12	4.640E-12	3.706E-12	3.025E-12
SW	6.335E-11	3.675E-11	2.380E-11	1.321E-11	8.367E-12	6.479E-12	4.711E-12	3.587E-12	2.789E-12	2.228E-12	1.818E-12
WSW	9.420E-11	5.440E-11	3.536E-11	2.358E-11	1.428E-11	9.583E-12	6.907E-12	5.186E-12	4.032E-12	3.221E-12	2.629E-12
W	7.229E-11	3.273E-11	3.045E-11	1.827E-11	1.252E-11	8.425E-12	6.037E-12	4.533E-12	3.525E-12	2.815E-12	2.298E-12
WNW	1.528E-10	8.326E-11	5.641E-11	3.250E-11	2.079E-11	1.482E-11	1.077E-11	8.089E-12	6.302E-12	5.034E-12	4.109E-12
NW	2.063E-10	1.126E-10	7.643E-11	4.931E-11	3.009E-11	2.018E-11	1.443E-11	1.084E-11	8.460E-12	6.758E-12	5.514E-12
NNW	1.871E-10	1.081E-10	7.567E-11	4.510E-11	2.906E-11	1.969E-11	1.413E-11	1.063E-11	8.073E-12	6.451E-12	5.267E-12
N	1.486E-10	7.112E-11	4.386E-11	2.372E-11	4.999E-11	3.047E-11	2.169E-11	1.629E-11	1.267E-11	1.013E-11	8.267E-12
NNE	9.433E-11	1.560E-10	9.708E-11	5.069E-11	3.102E-11	2.078E-11	1.485E-11	1.112E-11	8.619E-12	6.871E-12	5.598E-12
NE	2.672E-11	5.991E-11	3.894E-11	2.130E-11	1.321E-11	8.822E-12	5.963E-12	4.431E-12	3.437E-12	2.746E-12	2.241E-12
ENE	1.673E-11	3.494E-11	2.750E-11	1.776E-11	1.148E-11	7.589E-12	5.303E-12	3.211E-12	2.495E-12	1.992E-12	1.625E-12
E	2.387E-11	4.116E-11	3.193E-11	2.046E-11	1.326E-11	8.814E-12	6.197E-12	4.544E-12	3.459E-12	2.375E-12	1.934E-12
ESE	9.280E-11	1.023E-10	7.482E-11	4.605E-11	2.976E-11	1.999E-11	1.424E-11	1.059E-11	8.152E-12	6.480E-12	5.266E-12
SE	2.659E-10	1.266E-10	7.758E-11	4.136E-11	2.562E-11	1.777E-11	1.327E-11	1.527E-11	1.196E-11	9.663E-12	7.975E-12
SSE	3.847E-10	2.583E-10	1.583E-10	8.114E-11	4.936E-11	3.309E-11	2.369E-11	1.777E-11	1.380E-11	1.102E-11	8.990E-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	5.956E-09	2.419E-09	9.719E-10	5.306E-10	3.623E-10	1.675E-10	5.739E-11	2.794E-11	1.618E-11	9.964E-12
SSW	1.358E-09	6.677E-10	2.900E-10	1.799E-10	1.160E-10	5.954E-11	2.430E-11	1.115E-11	5.990E-12	3.731E-12
SW	1.256E-09	6.800E-10	2.787E-10	1.341E-10	7.905E-11	3.690E-11	1.341E-11	6.275E-12	3.604E-12	2.242E-12
WSW	2.409E-09	1.268E-09	4.164E-10	1.993E-10	1.174E-10	5.477E-11	2.206E-11	9.765E-12	5.238E-12	3.242E-12
W	3.527E-09	1.043E-09	3.262E-10	1.549E-10	9.074E-11	4.051E-11	1.842E-11	8.561E-12	4.579E-12	2.834E-12
WNW	3.658E-09	1.943E-09	6.536E-10	3.051E-10	1.851E-10	8.678E-11	3.261E-11	1.479E-11	8.175E-12	5.067E-12
NW	4.492E-09	2.718E-09	8.996E-10	4.132E-10	2.494E-10	1.173E-10	4.679E-11	2.052E-11	1.096E-11	6.802E-12
NNW	3.896E-09	1.680E-09	6.669E-10	3.564E-10	2.223E-10	1.112E-10	4.477E-11	1.997E-11	1.066E-11	6.493E-12
N	4.627E-09	1.582E-09	5.802E-10	3.043E-10	1.851E-10	7.623E-11	3.987E-11	3.216E-11	1.646E-11	1.019E-11
NNE	2.212E-09	8.955E-10	3.592E-10	1.926E-10	1.176E-10	1.161E-10	5.226E-11	2.114E-11	1.123E-11	6.918E-12
NE	5.260E-10	2.385E-10	1.005E-10	5.450E-11	3.333E-11	4.321E-11	2.162E-11	8.848E-12	4.490E-12	2.764E-12
ENE	2.747E-10	1.411E-10	6.224E-11	3.408E-11	2.088E-11	2.758E-11	1.713E-11	7.712E-12	3.536E-12	2.005E-12
E	6.407E-10	2.388E-10	9.191E-11	4.881E-11	2.975E-11	3.322E-11	1.981E-11	8.952E-12	4.603E-12	2.533E-12
ESE	2.824E-09	9.783E-10	3.615E-10	1.900E-10	1.156E-10	8.799E-11	4.520E-11	2.029E-11	1.070E-11	6.526E-12
SE	5.440E-09	2.405E-09	1.003E-09	5.425E-10	3.317E-10	1.358E-10	4.241E-11	1.806E-11	1.344E-11	9.719E-12
SSE	6.946E-09	2.771E-09	1.104E-09	6.250E-10	4.599E-10	2.420E-10	8.416E-11	3.367E-11	1.795E-11	1.109E-11

ERP ELEVATED STACK RELEASES - JAN-JUN 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	1.248E-07	1.246E-07	1.224E-07	6.174E-09
A	SITE BOUNDARY	SSW	0.82	1327.	4.369E-08	4.359E-08	4.287E-08	1.431E-09
A	SITE BOUNDARY	SW	0.98	1569.	5.928E-08	5.918E-08	5.870E-08	1.023E-09
A	SITE BOUNDARY	WSW	0.93	1489.	1.018E-07	1.017E-07	1.008E-07	2.250E-09
A	SITE BOUNDARY	W	0.91	1468.	1.513E-07	1.511E-07	1.487E-07	2.643E-09
A	SITE BOUNDARY	WNW	0.94	1509.	2.121E-07	2.119E-07	2.101E-07	3.917E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.578E-07	1.576E-07	1.561E-07	3.549E-09
A	SITE BOUNDARY	NNW	0.69	1106.	1.200E-07	1.199E-07	1.178E-07	4.568E-09
A	SITE BOUNDARY	N	0.67	1086.	8.293E-08	8.285E-08	8.142E-08	5.491E-09
A	SITE BOUNDARY	NNE	0.60	965.	5.342E-08	5.334E-08	5.263E-08	2.640E-09
A	SITE BOUNDARY	NE	0.62	1005.	1.767E-08	1.763E-08	1.739E-08	5.879E-10
A	SITE BOUNDARY	ENE	0.59	945.	2.321E-09	2.320E-09	2.297E-09	2.837E-10
A	SITE BOUNDARY	E	0.53	845.	1.312E-08	1.310E-08	1.298E-08	8.526E-10
A	SITE BOUNDARY	ESE	0.54	865.	4.406E-08	4.404E-08	4.356E-08	3.866E-09
A	SITE BOUNDARY	SE	0.65	1046.	7.092E-08	7.089E-08	6.988E-08	6.114E-09
A	SITE BOUNDARY	SSE	0.81	1307.	1.177E-07	1.176E-07	1.155E-07	7.050E-09
A	NEAR. RESIDENCE	SSW	1.80	2897.	3.453E-08	3.440E-08	3.374E-08	4.848E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	7.457E-08	7.439E-08	7.362E-08	1.083E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	1.404E-07	1.401E-07	1.384E-07	1.636E-09
A	NEAR. RESIDENCE	W	1.00	1609.	1.508E-07	1.505E-07	1.481E-07	2.213E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.217E-07	2.212E-07	2.168E-07	1.796E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	1.953E-07	1.950E-07	1.934E-07	5.681E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.055E-07	1.052E-07	1.032E-07	1.126E-09
A	NEAR. RESIDENCE	N	3.00	4828.	3.549E-08	3.531E-08	3.434E-08	4.043E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.278E-08	3.262E-08	3.182E-08	3.086E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	9.574E-09	9.538E-09	9.437E-09	1.137E-10
A	NEAR. RESIDENCE	E	1.80	2897.	1.232E-08	1.228E-08	1.205E-08	1.573E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.376E-08	2.369E-08	2.304E-08	3.823E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	5.926E-08	5.913E-08	5.766E-08	1.234E-09
A	NEAREST COW	NNW	3.50	5633.	7.142E-08	7.094E-08	6.951E-08	3.486E-10
A	NEAREST GARDEN	SSW	1.80	2897.	3.453E-08	3.440E-08	3.374E-08	4.848E-10
A	NEAREST GARDEN	SW	2.20	3541.	4.153E-08	4.135E-08	4.026E-08	3.541E-10
A	NEAREST GARDEN	WSW	1.30	2092.	1.404E-07	1.401E-07	1.384E-07	1.636E-09
A	NEAREST GARDEN	WNW	2.30	3702.	1.130E-07	1.126E-07	1.090E-07	7.573E-10
A	NEAREST GARDEN	NW	0.90	1448.	1.953E-07	1.950E-07	1.934E-07	5.681E-09
A	NEAREST GARDEN	N	3.00	4828.	3.549E-08	3.531E-08	3.434E-08	4.043E-10
A	NEAREST GARDEN	ENE	1.70	2736.	9.574E-09	9.538E-09	9.437E-09	1.137E-10
A	NEAREST GARDEN	E	1.80	2897.	1.232E-08	1.228E-08	1.205E-08	1.573E-10
A	NEAREST GARDEN	ESE	2.60	4184.	2.198E-08	2.191E-08	2.128E-08	3.298E-10

Atmospheric Diffusion Estimates

Elevated Releases

July-September 1996

ERP ELEVATED STACK RELEASES - JUL-SEP 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.694E-08	1.541E-07	1.952E-07	1.512E-07	1.0u5E-07	7.324E-08	5.609E-08	4.454E-08	3.642E-08	4.034E-08	4.390E-08
SSW	9.690E-09	6.095E-08	7.963E-08	7.112E-08	5.997E-08	4.978E-08	4.116E-08	4.467E-08	4.641E-08	4.089E-08	3.646E-08
SW	2.979E-08	9.075E-08	1.240E-07	1.304E-07	1.485E-07	9.801E-08	6.973E-08	5.246E-08	4.117E-08	3.337E-08	2.774E-08
WSW	1.989E-08	3.406E-08	6.624E-08	1.041E-07	1.859E-07	1.232E-07	8.801E-08	6.649E-08	5.239E-08	4.262E-08	3.557E-08
W	2.862E-08	1.671E-07	2.771E-07	3.038E-07	2.991E-07	1.922E-07	1.346E-07	1.003E-07	7.815E-08	6.304E-08	5.224E-08
WNW	1.238E-07	2.135E-07	3.202E-07	3.988E-07	4.570E-07	2.779E-07	1.880E-07	1.426E-07	1.127E-07	8.904E-08	7.256E-08
NW	1.317E-07	2.343E-07	2.978E-07	3.557E-07	5.516E-07	3.245E-07	2.150E-07	1.572E-07	1.209E-07	9.510E-08	7.725E-08
NNW	7.116E-08	1.443E-07	1.759E-07	1.779E-07	2.017E-07	1.892E-07	1.684E-07	1.441E-07	1.234E-07	9.659E-08	7.817E-08
N	8.831E-08	1.647E-07	1.832E-07	1.446E-07	1.029E-07	8.027E-08	6.462E-08	5.243E-08	4.360E-08	3.702E-08	3.197E-08
NNE	1.667E-08	1.052E-07	1.251E-07	9.809E-08	7.119E-08	5.664E-08	4.646E-08	3.891E-08	3.316E-08	2.869E-08	2.517E-08
NE	2.665E-08	8.104E-08	9.558E-08	7.096E-08	4.510E-08	3.270E-08	2.533E-08	2.045E-08	1.700E-08	1.446E-08	1.253E-08
ENE	2.855E-09	3.731E-08	4.796E-08	4.141E-08	3.326E-08	2.702E-08	2.214E-08	1.842E-08	1.558E-08	1.338E-08	1.166E-08
E	3.483E-09	3.000E-08	4.125E-08	3.595E-08	2.899E-08	2.361E-08	1.937E-08	1.615E-08	1.371E-08	1.183E-08	1.036E-08
ESE	1.737E-09	1.753E-08	2.731E-08	2.600E-08	2.285E-08	1.930E-08	1.613E-08	1.358E-08	1.157E-08	9.997E-09	8.748E-09
SE	1.051E-10	6.589E-09	1.356E-08	1.547E-08	1.572E-08	1.395E-08	1.197E-08	1.028E-08	8.919E-09	7.829E-09	6.951E-09
SSE	9.712E-09	7.811E-08	1.070E-07	9.046E-08	6.758E-08	5.250E-08	4.185E-08	3.418E-08	2.853E-08	4.011E-08	4.905E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.909E-08	2.539E-08	1.636E-08	9.310E-09	6.450E-09	4.833E-09	3.768E-09	3.056E-09	2.563E-09	2.193E-09	1.903E-09
SSW	3.388E-08	2.476E-08	1.598E-08	9.096E-09	6.320E-09	4.697E-09	3.652E-09	2.955E-09	2.463E-09	2.097E-09	1.817E-09
SW	2.504E-08	1.678E-08	1.084E-08	6.168E-09	4.244E-09	3.164E-09	2.492E-09	2.015E-09	1.677E-09	1.427E-09	1.236E-09
WSW	3.172E-08	2.057E-08	1.432E-08	8.605E-09	5.796E-09	4.275E-09	3.339E-09	2.711E-09	2.265E-09	1.934E-09	1.680E-09
W	4.423E-08	2.435E-08	1.724E-08	1.083E-08	7.689E-09	5.684E-09	4.434E-09	3.597E-09	3.003E-09	2.563E-09	2.224E-09
WNW	6.117E-08	3.329E-08	2.211E-08	1.299E-08	8.812E-09	6.524E-09	5.113E-09	4.153E-09	3.464E-09	2.951E-09	2.557E-09
NW	6.492E-08	3.495E-08	2.315E-08	1.352E-08	9.102E-09	6.712E-09	5.274E-09	4.286E-09	3.578E-09	3.053E-09	2.650E-09
NNW	6.590E-08	3.584E-08	2.309E-08	1.314E-08	8.859E-09	6.538E-09	5.131E-09	4.183E-09	3.530E-09	3.025E-09	2.625E-09
N	2.807E-08	1.745E-08	1.438E-08	1.124E-08	8.939E-09	7.075E-09	5.545E-09	4.507E-09	3.764E-09	3.213E-09	2.790E-09
NNE	2.795E-08	3.596E-08	2.322E-08	1.327E-08	8.982E-09	6.648E-09	5.205E-09	4.236E-09	3.546E-09	3.033E-09	2.638E-09
NE	1.370E-08	1.882E-08	1.216E-08	6.971E-09	4.737E-09	3.519E-09	2.788E-09	2.285E-09	1.920E-09	1.644E-09	1.432E-09
ENE	1.227E-08	1.480E-08	9.684E-09	5.615E-09	3.829E-09	2.849E-09	2.314E-09	1.928E-09	1.614E-09	1.381E-09	1.202E-09
E	1.125E-08	1.652E-08	1.089E-08	6.380E-09	4.381E-09	3.277E-09	2.586E-09	2.119E-09	1.830E-09	1.602E-09	1.397E-09
ESE	9.119E-09	1.071E-08	7.092E-09	4.170E-09	2.867E-09	2.145E-09	1.693E-09	1.387E-09	1.167E-09	1.003E-09	8.753E-10
SE	6.236E-09	4.179E-09	3.631E-09	3.189E-09	2.575E-09	2.192E-09	1.929E-09	1.732E-09	1.474E-09	1.278E-09	1.125E-09
SSE	4.168E-08	2.296E-08	1.466E-08	8.253E-09	5.535E-09	4.069E-09	3.168E-09	2.567E-09	2.140E-09	1.824E-09	1.582E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.665E-07	9.966E-08	5.604E-08	4.024E-08	4.106E-08	2.442E-08	9.606E-09	4.838E-09	3.072E-09	2.195E-09
SSW	7.169E-08	5.792E-08	4.486E-08	4.381E-08	3.682E-08	2.288E-08	9.391E-09	4.712E-09	2.967E-09	2.102E-09
SW	1.195E-07	1.220E-07	7.036E-08	4.142E-08	2.841E-08	1.597E-08	6.350E-09	3.183E-09	2.023E-09	1.430E-09
WSW	7.591E-08	1.398E-07	8.878E-08	5.270E-08	3.623E-08	2.027E-08	8.627E-09	4.306E-09	2.721E-09	1.938E-09
W	2.646E-07	2.527E-07	1.362E-07	7.871E-08	5.247E-08	2.561E-08	1.086E-08	5.719E-09	3.610E-09	2.568E-09
WNW	3.314E-07	3.645E-07	1.938E-07	1.122E-07	7.322E-08	3.451E-08	1.316E-08	6.570E-09	4.165E-09	2.957E-09
NW	3.094E-07	4.071E-07	2.211E-07	1.214E-07	7.798E-08	3.637E-08	1.370E-08	6.774E-09	4.298E-09	3.059E-09
NNW	1.698E-07	1.909E-07	1.642E-07	1.191E-07	7.909E-08	3.685E-08	1.345E-08	6.594E-09	4.205E-09	3.027E-09
N	1.619E-07	1.021E-07	6.392E-08	4.361E-08	3.202E-08	1.844E-08	1.092E-08	6.960E-09	4.521E-09	3.220E-09
NNE	1.087E-07	7.070E-08	4.615E-08	3.310E-08	2.724E-08	2.852E-08	1.358E-08	6.693E-09	4.250E-09	3.039E-09
NE	8.141E-08	4.534E-08	2.535E-08	1.702E-08	1.354E-08	1.473E-08	7.132E-09	3.551E-09	2.290E-09	1.647E-09
ENE	4.268E-08	3.230E-08	2.195E-08	1.555E-08	1.240E-08	1.196E-08	5.725E-09	2.897E-09	1.919E-09	1.384E-09
E	3.639E-08	2.814E-08	1.921E-08	1.369E-08	1.112E-08	1.285E-08	6.495E-09	3.295E-09	2.142E-09	1.594E-09
ESE	2.455E-08	2.197E-08	1.596E-08	1.155E-08	9.255E-09	8.747E-09	4.240E-09	2.157E-09	1.391E-09	1.004E-09
SE	1.286E-08	1.488E-08	1.182E-08	8.894E-09	6.946E-09	4.393E-09	3.015E-09	2.189E-09	1.690E-09	1.279E-09
SSE	9.324E-08	6.596E-08	4.162E-08	3.456E-08	4.367E-08	2.343E-08	8.469E-09	4.100E-09	2.576E-09	1.828E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.693E-08	1.539E-07	1.949E-07	1.509E-07	1.002E-07	7.294E-08	5.579E-08	4.426E-08	3.615E-08	3.999E-08	4.348E-08
SSW	9.686E-09	6.090E-08	7.951E-08	7.097E-08	5.976E-08	4.954E-08	4.090E-08	4.432E-08	4.598E-08	4.045E-08	3.602E-08
SW	2.977E-08	9.060E-08	1.237E-07	1.300E-07	1.477E-07	9.734E-08	6.912E-08	5.191E-08	4.066E-08	3.289E-08	2.730E-08
WSW	1.988E-08	3.402E-08	6.614E-08	1.039E-07	1.851E-07	1.225E-07	8.739E-08	6.593E-08	5.187E-08	4.214E-08	3.511E-08
W	2.860E-08	1.669E-07	2.766E-07	3.030E-07	2.979E-07	1.911E-07	1.336E-07	9.935E-08	7.732E-08	6.228E-08	5.152E-08
WNW	1.238E-07	2.133E-07	3.197E-07	3.981E-07	4.554E-07	2.766E-07	1.868E-07	1.415E-07	1.117E-07	8.815E-08	7.174E-08
NW	1.317E-07	2.340E-07	2.973E-07	3.550E-07	5.501E-07	3.233E-07	2.140E-07	1.563E-07	1.201E-07	9.441E-08	7.662E-08
NNW	7.113E-08	1.442E-07	1.757E-07	1.776E-07	2.012E-07	1.886E-07	1.677E-07	1.433E-07	1.226E-07	9.586E-08	7.750E-08
N	8.829E-08	1.646E-07	1.829E-07	1.443E-07	1.026E-07	7.996E-08	6.432E-08	5.213E-08	4.331E-08	3.673E-08	3.169E-08
NNE	1.667E-08	1.051E-07	1.249E-07	9.792E-08	7.098E-08	5.639E-08	4.620E-08	3.863E-08	3.288E-08	2.841E-08	2.489E-08
NE	2.664E-08	8.097E-08	9.546E-08	7.083E-08	4.497E-08	3.257E-08	2.520E-08	2.031E-08	1.687E-08	1.433E-08	1.241E-08
ENE	2.851E-09	3.723E-08	4.785E-08	4.130E-08	3.315E-08	2.690E-08	2.202E-08	1.829E-08	1.545E-08	1.325E-08	1.153E-08
E	3.482E-09	2.999E-08	4.121E-08	3.590E-08	2.892E-08	2.352E-08	1.928E-08	1.605E-08	1.361E-08	1.173E-08	1.026E-08
ESE	1.736E-09	1.752E-08	2.728E-08	2.595E-08	2.279E-08	1.923E-08	1.606E-08	1.350E-08	1.150E-08	9.919E-09	8.671E-09
SE	1.051E-10	6.585E-09	1.355E-08	1.545E-08	1.568E-08	1.388E-08	1.190E-08	1.021E-08	8.836E-09	7.743E-09	6.863E-09
SSE	9.709E-09	7.806E-08	1.069E-07	9.034E-08	6.744E-08	5.234E-08	4.169E-08	3.401E-08	2.837E-08	3.984E-08	4.866E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.867E-08	2.499E-08	1.692E-08	9.023E-09	6.188E-09	4.591E-09	3.544E-09	2.846E-09	2.364E-09	2.003E-09	1.721E-09
SSW	3.341E-08	2.422E-08	1.552E-08	8.703E-09	5.957E-09	4.363E-09	3.343E-09	2.666E-09	2.190E-09	1.838E-09	1.570E-09
SW	2.460E-08	1.632E-08	1.044E-08	5.834E-09	3.940E-09	2.883E-09	2.229E-09	1.769E-09	1.446E-09	1.208E-09	1.027E-09
WSW	3.127E-08	2.014E-08	1.393E-08	8.252E-09	5.483E-09	3.990E-09	3.075E-09	2.464E-09	2.032E-09	1.712E-09	1.468E-09
W	4.356E-08	2.379E-08	1.671E-08	1.033E-08	7.216E-09	5.250E-09	4.031E-09	3.220E-09	2.646E-09	2.223E-09	1.900E-09
WNW	6.041E-08	3.266E-08	2.154E-08	1.249E-08	8.367E-09	6.115E-09	4.731E-09	3.794E-09	3.124E-09	2.628E-09	2.249E-09
NW	6.433E-08	3.448E-08	2.273E-08	1.315E-08	8.776E-09	6.412E-09	4.993E-09	4.021E-09	3.327E-09	2.813E-09	2.420E-09
NNW	6.527E-08	3.530E-08	2.263E-08	1.274E-08	8.501E-09	6.207E-09	4.819E-09	3.887E-09	3.243E-09	2.749E-09	2.360E-09
N	2.780E-08	1.721E-08	1.411E-08	1.094E-08	8.620E-09	6.762E-09	5.253E-09	4.231E-09	3.503E-09	2.964E-09	2.551E-09
NNE	2.759E-08	3.523E-08	2.260E-08	1.274E-08	8.506E-09	6.212E-09	4.800E-09	3.855E-09	3.185E-09	2.689E-09	2.309E-09
NE	1.355E-08	1.855E-08	1.193E-08	6.776E-09	4.564E-09	3.360E-09	2.639E-09	2.144E-09	1.785E-09	1.516E-09	1.309E-09
ENE	1.212E-08	1.454E-08	9.455E-09	5.418E-09	3.652E-09	2.687E-09	2.158E-09	1.778E-09	1.473E-09	1.246E-09	1.072E-09
E	1.114E-08	1.625E-08	1.066E-08	6.172E-09	4.196E-09	3.098E-09	2.418E-09	1.958E-09	1.669E-09	1.443E-09	1.243E-09
ESE	9.032E-09	1.056E-08	6.961E-09	4.055E-09	2.763E-09	2.048E-09	1.602E-09	1.300E-09	1.084E-09	9.227E-10	7.982E-10
SE	6.147E-09	4.083E-09	3.515E-09	3.027E-09	2.398E-09	2.002E-09	1.728E-09	1.521E-09	1.271E-09	1.082E-09	9.346E-10
SSE	4.131E-08	2.265E-08	1.440E-08	8.033E-09	5.339E-09	3.890E-09	3.002E-09	2.411E-09	1.992E-09	1.683E-09	1.447E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES									
S	1.663E-07	9.937E-08	5.575E-08	3.993E-08	4.066E-08	2.404E-08	9.318E-09	4.598E-09	2.862E-09	2.005E-09
SSW	7.158E-08	5.771E-08	4.457E-08	4.340E-08	3.637E-08	2.239E-08	8.997E-09	4.380E-09	2.678E-09	1.843E-09
SW	1.191E-07	1.214E-07	6.976E-08	4.092E-08	2.796E-08	1.555E-08	6.016E-09	2.903E-09	1.777E-09	1.212E-09
WSW	7.576E-08	1.392E-07	8.816E-08	5.218E-08	3.577E-08	1.985E-08	8.283E-09	4.022E-09	2.474E-09	1.716E-09
W	2.640E-07	2.515E-07	1.352E-07	7.788E-08	5.176E-08	2.504E-08	1.036E-08	5.287E-09	3.233E-09	2.229E-09
WNW	3.309E-07	3.632E-07	1.927E-07	1.113E-07	7.241E-08	3.388E-08	1.267E-08	6.162E-09	3.807E-09	2.634E-09
NW	3.089E-07	4.060E-07	2.201E-07	1.207E-07	7.734E-08	3.589E-08	1.333E-08	6.475E-09	4.034E-09	2.820E-09
NNW	1.695E-07	1.903E-07	1.635E-07	1.183E-07	7.841E-08	3.633E-08	1.305E-08	6.264E-09	3.908E-09	2.752E-09
N	1.617E-07	1.018E-07	6.361E-08	4.333E-08	3.175E-08	1.818E-08	1.061E-08	6.654E-09	4.246E-09	2.971E-09
NNE	1.085E-07	7.048E-08	4.589E-08	3.282E-08	2.693E-08	2.792E-08	1.305E-08	6.259E-09	3.870E-09	2.695E-09
NE	8.129E-08	4.520E-08	2.521E-08	1.689E-08	1.340E-08	1.450E-08	6.939E-09	3.392E-09	2.149E-09	1.519E-09
ENE	4.258E-08	3.219E-08	2.183E-08	1.543E-08	1.226E-08	1.174E-08	5.530E-09	2.733E-09	1.771E-09	1.249E-09
E	3.636E-08	2.807E-08	1.912E-08	1.359E-08	1.102E-08	1.263E-08	6.288E-09	3.117E-09	1.979E-09	1.436E-09
ESE	2.452E-08	2.191E-08	1.588E-08	1.147E-08	9.174E-09	8.620E-09	4.126E-09	2.060E-09	1.304E-09	9.244E-10
SE	1.284E-08	1.483E-08	1.175E-08	8.811E-09	6.858E-09	4.289E-09	2.856E-09	1.998E-09	1.485E-09	1.083E-09
SSE	9.314E-08	6.582E-08	4.146E-08	3.435E-08	4.333E-08	2.313E-08	8.250E-09	3.921E-09	2.420E-09	1.687E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.694E-08	1.527E-07	1.908E-07	1.469E-07	9.718E-08	7.046E-08	5.368E-08	4.240E-08	3.449E-08	3.831E-08	4.183E-08
SSW	9.689E-09	6.040E-08	7.799E-08	6.953E-08	5.852E-08	4.837E-08	3.978E-08	4.312E-08	4.476E-08	3.931E-08	3.496E-08
SW	2.978E-08	8.989E-08	1.214E-07	1.279E-07	1.455E-07	9.533E-08	6.736E-08	5.038E-08	3.932E-08	3.171E-08	2.624E-08
WSW	1.988E-08	3.374E-08	6.517E-08	1.029E-07	1.836E-07	1.210E-07	8.606E-08	6.479E-08	5.089E-08	4.130E-08	3.438E-08
W	2.861E-08	1.643E-07	2.723E-07	2.984E-07	2.936E-07	1.880E-07	1.312E-07	9.749E-08	7.582E-08	6.104E-08	5.048E-08
WNW	1.238E-07	2.116E-07	3.157E-07	3.930E-07	4.487E-07	2.709E-07	1.821E-07	1.376E-07	1.084E-07	8.523E-08	6.909E-08
NW	1.317E-07	2.321E-07	2.918E-07	3.496E-07	5.444E-07	3.186E-07	2.103E-07	1.533E-07	1.176E-07	9.213E-08	7.448E-08
NNW	7.115E-08	1.430E-07	1.725E-07	1.747E-07	1.984E-07	1.855E-07	1.648E-07	1.407E-07	1.202E-07	9.370E-08	7.543E-08
N	8.831E-08	1.632E-07	1.792E-07	1.407E-07	9.982E-08	7.760E-08	6.223E-08	5.028E-08	4.165E-08	3.523E-08	3.032E-08
NNE	1.667E-08	1.043E-07	1.223E-07	9.544E-08	6.909E-08	5.484E-08	4.487E-08	3.746E-08	3.183E-08	2.747E-08	2.404E-08
NE	2.665E-08	8.029E-08	9.337E-08	6.881E-08	4.347E-08	3.141E-08	2.425E-08	1.951E-08	1.617E-08	1.372E-08	1.186E-08
ENE	2.854E-09	3.696E-08	4.696E-08	4.048E-08	3.245E-08	2.626E-08	2.142E-08	1.774E-08	1.494E-08	1.278E-08	1.110E-08
E	3.483E-09	2.973E-08	4.039E-08	3.511E-08	2.825E-08	2.292E-08	1.872E-08	1.554E-08	1.313E-08	1.128E-08	9.848E-09
ESE	1.737E-09	1.737E-08	2.678E-08	2.545E-08	2.234E-08	1.879E-08	1.564E-08	1.311E-08	1.113E-08	9.577E-09	8.352E-09
SE	1.051E-10	6.531E-09	1.334E-08	1.524E-08	1.544E-08	1.363E-08	1.164E-08	9.946E-09	8.589E-09	7.511E-09	6.647E-09
SSE	9.711E-09	7.740E-08	1.048E-07	8.825E-08	6.572E-08	5.085E-08	4.036E-08	3.282E-08	2.729E-08	3.865E-08	4.747E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.717E-08	2.372E-08	1.479E-08	7.885E-09	5.081E-09	3.582E-09	2.671E-09	2.080E-09	1.684E-09	1.397E-09	1.178E-09
SSW	3.244E-08	2.332E-08	1.455E-08	7.730E-09	4.986E-09	3.548E-09	2.656E-09	2.077E-09	1.676E-09	1.385E-09	1.166E-09
SW	2.364E-08	1.557E-08	9.723E-09	5.176E-09	3.311E-09	2.319E-09	1.749E-09	1.362E-09	1.095E-09	9.021E-10	7.576E-10
WSW	3.063E-08	1.944E-08	1.309E-08	7.417E-09	4.767E-09	3.378E-09	2.545E-09	2.000E-09	1.621E-09	1.345E-09	1.138E-09
W	4.267E-08	2.332E-08	1.634E-08	9.616E-09	6.365E-09	4.515E-09	3.395E-09	2.664E-09	2.157E-09	1.788E-09	1.510E-09
WNW	5.793E-08	3.052E-08	1.958E-08	1.073E-08	6.722E-09	4.670E-09	3.499E-09	2.740E-09	2.209E-09	1.823E-09	1.534E-09
NW	6.225E-08	3.245E-08	2.075E-08	1.130E-08	7.158E-09	5.010E-09	3.779E-09	2.968E-09	2.401E-09	1.989E-09	1.680E-09
NNW	6.323E-08	3.329E-08	2.071E-08	1.096E-08	6.811E-09	4.690E-09	3.467E-09	2.690E-09	2.186E-09	1.813E-09	1.526E-09
N	2.654E-08	1.631E-08	1.341E-08	1.049E-08	8.146E-09	6.139E-09	4.660E-09	3.680E-09	2.993E-09	2.492E-09	2.115E-09
NNE	2.679E-08	3.448E-08	2.149E-08	1.149E-08	7.250E-09	5.059E-09	3.762E-09	2.923E-09	2.345E-09	1.928E-09	1.616E-09
NE	1.303E-08	1.804E-08	1.127E-08	6.077E-09	3.878E-09	2.758E-09	2.100E-09	1.667E-09	1.359E-09	1.133E-09	9.614E-10
ENE	1.170E-08	1.416E-08	8.957E-09	4.843E-09	3.051E-09	2.123E-09	1.624E-09	1.290E-09	1.041E-09	8.612E-10	7.258E-10
E	1.073E-08	1.589E-08	1.013E-08	5.525E-09	3.496E-09	2.440E-09	1.812E-09	1.406E-09	1.153E-09	9.652E-10	8.113E-10
ESE	8.716E-09	1.029E-08	6.593E-09	3.620E-09	2.301E-09	1.611E-09	1.199E-09	9.316E-10	7.468E-10	6.132E-10	5.132E-10
SE	5.946E-09	3.945E-09	3.423E-09	3.009E-09	2.420E-09	2.052E-09	1.799E-09	1.607E-09	1.346E-09	1.151E-09	9.989E-10
SSE	4.011E-08	2.140E-08	1.319E-08	6.973E-09	4.407E-09	3.081E-09	2.295E-09	1.787E-09	1.436E-09	1.183E-09	9.941E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.628E-07	9.636E-08	5.364E-08	3.821E-08	3.906E-08	2.274E-08	8.174E-09	3.617E-09	2.098E-09	1.401E-09
SSW	7.032E-08	5.646E-08	4.341E-08	4.222E-08	3.532E-08	2.145E-08	8.026E-09	3.575E-09	2.089E-09	1.390E-09
SW	1.173E-07	1.193E-07	6.803E-08	3.958E-08	2.690E-08	1.476E-08	5.358E-09	2.356E-09	1.371E-09	9.057E-10
WSW	7.496E-08	1.378E-07	8.686E-08	5.121E-08	3.504E-08	1.910E-08	7.499E-09	3.415E-09	2.011E-09	1.350E-09
W	2.599E-07	2.477E-07	1.329E-07	7.638E-08	5.072E-08	2.452E-08	9.664E-09	4.560E-09	2.680E-09	1.794E-09
WNW	3.269E-07	3.573E-07	1.880E-07	1.079E-07	6.974E-08	3.175E-08	1.092E-08	4.749E-09	2.755E-09	1.830E-09
NW	3.042E-07	4.008E-07	2.164E-07	1.181E-07	7.518E-08	3.387E-08	1.156E-08	5.090E-09	2.983E-09	1.997E-09
NNW	1.669E-07	1.874E-07	1.607E-07	1.160E-07	7.633E-08	3.435E-08	1.128E-08	4.766E-09	2.720E-09	1.817E-09
N	1.585E-07	9.903E-08	6.155E-08	4.167E-08	3.036E-08	1.730E-08	1.010E-08	6.083E-09	3.698E-09	2.501E-09
NNE	1.064E-07	6.861E-08	4.456E-08	3.178E-08	2.607E-08	2.700E-08	1.183E-08	5.124E-09	2.942E-09	1.936E-09
NE	7.955E-08	4.374E-08	2.426E-08	1.619E-08	1.284E-08	1.392E-08	6.262E-09	2.799E-09	1.674E-09	1.136E-09
ENE	4.186E-08	3.148E-08	2.124E-08	1.492E-08	1.182E-08	1.130E-08	4.961E-09	2.171E-09	1.291E-09	8.645E-10
E	3.567E-08	2.741E-08	1.857E-08	1.311E-08	1.060E-08	1.218E-08	5.646E-09	2.471E-09	1.426E-09	9.640E-10
ESE	2.410E-08	2.146E-08	1.547E-08	1.110E-08	8.850E-09	8.296E-09	3.695E-09	1.630E-09	9.376E-10	6.157E-10
SE	1.267E-08	1.459E-08	1.149E-08	8.566E-09	6.643E-09	4.158E-09	2.839E-09	2.049E-09	1.562E-09	1.153E-09
SSE	9.135E-08	6.412E-08	4.014E-08	3.320E-08	4.213E-08	2.191E-08	7.214E-09	3.120E-09	1.799E-09	1.188E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.144E-08	8.618E-09	6.307E-09	3.770E-09	1.603E-09	9.233E-10	6.028E-10	4.248E-10	3.150E-10	2.424E-10	2.207E-10
SSW	3.851E-09	3.098E-09	2.582E-09	1.754E-09	8.447E-10	5.158E-10	3.479E-10	2.496E-10	2.233E-10	1.691E-10	1.325E-10
SW	3.829E-09	2.963E-09	2.294E-09	1.455E-09	9.346E-10	5.083E-10	3.171E-10	2.165E-10	1.572E-10	1.193E-10	9.365E-11
WSW	2.368E-09	1.893E-09	1.561E-09	1.606E-09	8.202E-10	4.394E-10	2.703E-10	1.828E-10	1.318E-10	9.962E-11	7.799E-11
W	3.250E-09	5.509E-09	4.013E-09	2.364E-09	1.031E-09	5.514E-10	3.390E-10	2.292E-10	1.653E-10	1.249E-10	9.779E-11
WNW	9.130E-09	7.067E-09	8.363E-09	5.587E-09	2.882E-09	1.465E-09	8.763E-10	5.868E-10	4.401E-10	3.378E-10	2.728E-10
NW	1.318E-08	9.833E-09	7.041E-09	5.726E-09	2.920E-09	1.461E-09	8.760E-10	5.944E-10	4.422E-10	3.539E-10	2.992E-10
NNW	9.130E-09	7.067E-09	5.475E-09	3.475E-09	2.441E-09	1.303E-09	8.034E-10	6.349E-10	4.660E-10	3.662E-10	3.040E-10
N	1.293E-08	9.832E-09	7.347E-09	4.494E-09	1.959E-09	1.142E-09	7.510E-10	5.314E-10	3.949E-10	3.041E-10	2.407E-10
NNE	7.340E-09	5.564E-09	4.127E-09	2.504E-09	1.082E-09	6.283E-10	4.122E-10	2.912E-10	2.163E-10	1.665E-10	1.318E-10
NE	5.854E-09	4.341E-09	3.068E-09	1.761E-09	7.142E-10	4.011E-10	2.580E-10	1.803E-10	1.331E-10	1.022E-10	8.091E-11
ENE	1.785E-09	1.476E-09	1.291E-09	9.117E-10	4.538E-10	2.810E-10	1.909E-10	1.374E-10	1.031E-10	7.966E-11	6.307E-11
E	3.819E-09	2.909E-09	2.179E-09	1.336E-09	5.840E-10	3.410E-10	2.244E-10	1.589E-10	1.181E-10	9.095E-11	7.199E-11
ESE	1.775E-09	1.413E-09	1.156E-09	7.726E-10	3.669E-10	2.227E-10	1.497E-10	1.072E-10	8.016E-11	6.189E-11	4.900E-11
SE	8.993E-10	7.787E-10	7.316E-10	5.453E-10	2.828E-10	1.779E-10	1.219E-10	8.815E-11	6.625E-11	5.126E-11	4.058E-11
SSE	7.659E-09	5.935E-09	4.608E-09	2.931E-09	1.329E-09	7.903E-10	5.253E-10	3.739E-10	2.787E-10	2.530E-10	2.380E-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	1.777E-10	1.195E-10	8.138E-11	4.761E-11	3.082E-11	2.080E-11	1.496E-11	1.126E-11	8.925E-12	7.117E-12	5.813E-12
SSW	1.084E-10	8.025E-11	5.568E-11	3.286E-11	2.048E-11	1.412E-11	1.012E-11	7.606E-12	6.053E-12	4.835E-12	3.946E-12
SW	7.812E-11	5.112E-11	3.443E-11	1.987E-11	1.279E-11	9.071E-12	6.299E-12	4.953E-12	3.851E-12	3.076E-12	2.511E-12
WSW	6.277E-11	6.294E-11	4.643E-11	2.764E-11	1.673E-11	1.122E-11	8.172E-12	6.136E-12	4.771E-12	3.811E-12	3.111E-12
W	7.871E-11	3.559E-11	5.287E-11	3.699E-11	2.152E-11	1.451E-11	1.040E-11	7.809E-12	6.072E-12	4.850E-12	3.959E-12
WNW	2.339E-10	1.328E-10	9.207E-11	5.447E-11	3.533E-11	2.412E-11	1.696E-11	1.274E-11	9.960E-12	7.956E-12	6.494E-12
NW	2.642E-10	1.704E-10	1.256E-10	7.524E-11	4.642E-11	3.133E-11	2.198E-11	1.651E-11	1.285E-11	1.027E-11	8.379E-12
NNW	2.642E-10	1.627E-10	1.174E-10	7.156E-11	4.620E-11	3.111E-11	2.198E-11	1.552E-11	1.206E-11	9.633E-12	7.863E-12
N	1.948E-10	9.336E-11	5.767E-11	3.133E-11	5.897E-11	3.658E-11	2.610E-11	1.961E-11	1.525E-11	1.219E-11	9.952E-12
NNE	1.067E-10	1.474E-10	9.447E-11	5.103E-11	3.161E-11	2.119E-11	1.514E-11	1.131E-11	8.759E-12	6.978E-12	5.682E-12
NE	6.557E-11	9.112E-11	5.717E-11	3.027E-11	1.872E-11	1.263E-11	9.019E-12	6.737E-12	5.267E-12	4.207E-12	3.434E-12
ENE	5.092E-11	5.320E-11	3.828E-11	2.322E-11	1.490E-11	9.969E-12	7.076E-12	4.960E-12	3.866E-12	3.099E-12	2.537E-12
E	5.825E-11	7.039E-11	5.237E-11	3.267E-11	2.118E-11	1.423E-11	1.012E-11	7.515E-12	5.778E-12	4.675E-12	3.318E-12
ESE	3.959E-11	4.802E-11	3.556E-11	2.206E-11	1.423E-11	9.514E-12	6.739E-12	4.983E-12	3.821E-12	3.023E-12	2.447E-12
SE	3.275E-11	1.558E-11	9.549E-12	5.088E-12	3.167E-12	2.227E-12	1.709E-12	2.750E-12	2.165E-12	1.760E-12	1.471E-12
SSE	2.007E-10	1.501E-10	9.287E-11	4.816E-11	2.942E-11	1.972E-11	1.411E-11	1.057E-11	8.207E-12	6.548E-12	5.340E-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	5.693E-09	1.783E-09	6.170E-10	3.187E-10	2.112E-10	1.155E-10	4.765E-11	2.113E-11	1.143E-11	7.170E-12
SSW	2.328E-09	9.005E-10	3.533E-10	2.101E-10	1.344E-10	7.559E-11	3.243E-11	1.422E-11	7.734E-12	4.867E-12
SW	2.070E-09	8.609E-10	3.279E-10	1.597E-10	9.551E-11	4.970E-11	1.996E-11	8.954E-12	4.918E-12	3.096E-12
WSW	1.655E-09	8.255E-10	2.804E-10	1.341E-10	7.876E-11	5.556E-11	2.697E-11	1.147E-11	6.198E-12	3.836E-12
W	3.613E-09	1.114E-09	3.517E-10	1.682E-10	9.876E-11	5.285E-11	3.364E-11	1.474E-11	7.887E-12	4.882E-12
WNW	6.841E-09	2.853E-09	9.175E-10	4.430E-10	2.777E-10	1.372E-10	5.432E-11	2.425E-11	1.289E-11	8.009E-12
NW	7.077E-09	2.895E-09	9.194E-10	4.520E-10	3.025E-10	1.713E-10	7.361E-11	3.161E-11	1.668E-11	1.033E-11
NNW	4.940E-09	2.165E-09	8.692E-10	4.762E-10	3.077E-10	1.651E-10	7.047E-11	3.149E-11	1.605E-11	9.696E-12
N	6.631E-09	2.159E-09	7.675E-10	3.993E-10	2.425E-10	1.000E-10	4.947E-11	3.836E-11	1.980E-11	1.227E-11
NNE	3.725E-09	1.196E-09	4.214E-10	2.187E-10	1.328E-10	1.148E-10	5.205E-11	2.155E-11	1.143E-11	7.025E-12
NE	2.770E-09	8.076E-10	2.651E-10	1.348E-10	8.155E-11	7.035E-11	3.111E-11	1.281E-11	6.829E-12	4.235E-12
ENE	1.163E-09	4.787E-10	1.935E-10	1.040E-10	6.349E-11	4.606E-11	2.287E-11	1.013E-11	5.148E-12	3.118E-12
E	1.967E-09	6.432E-10	2.293E-10	1.194E-10	7.252E-11	5.968E-11	3.174E-11	1.444E-11	7.598E-12	4.299E-12
ESE	1.043E-09	3.930E-10	1.522E-10	8.093E-11	4.933E-11	4.061E-11	2.158E-11	9.662E-12	5.042E-12	3.046E-12
SE	6.593E-10	2.945E-10	1.233E-10	6.679E-11	4.084E-11	1.671E-11	5.226E-12	2.270E-12	2.230E-12	1.773E-12
SSE	4.157E-09	1.446E-09	5.354E-10	2.961E-10	2.286E-10	1.359E-10	4.976E-11	2.006E-11	1.068E-11	6.592E-12

ERP ELEVATED STACK RELEASES - JUL-SEP 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	1.863E-07	1.860E-07	1.818E-07	5.676E-09
A	SITE BOUNDARY	SSW	0.82	1327.	7.686E-08	7.674E-08	7.518E-08	2.305E-09
A	SITE BOUNDARY	SW	0.98	1569.	1.292E-07	1.288E-07	1.266E-07	1.527E-09
A	SITE BOUNDARY	WSW	0.93	1489.	9.123E-08	9.104E-08	9.010E-08	1.402E-09
A	SITE BOUNDARY	W	0.91	1468.	2.971E-07	2.964E-07	2.918E-07	2.785E-09
A	SITE BOUNDARY	WNW	0.94	1509.	3.801E-07	3.794E-07	3.748E-07	6.360E-09
A	SITE BOUNDARY	NW	0.81	1307.	3.018E-07	3.013E-07	2.957E-07	6.125E-09
A	SITE BOUNDARY	NNW	0.69	1106.	1.673E-07	1.671E-07	1.642E-07	5.780E-09
A	SITE BOUNDARY	N	0.67	1086.	1.808E-07	1.806E-07	1.774E-07	7.945E-09
A	SITE BOUNDARY	NNE	0.60	965.	1.186E-07	1.185E-07	1.168E-07	4.892E-09
A	SITE BOUNDARY	NE	0.62	1005.	9.300E-08	9.290E-08	9.142E-08	3.626E-09
A	SITE BOUNDARY	ENE	0.59	945.	4.275E-08	4.265E-08	4.212E-08	1.388E-09
A	SITE BOUNDARY	E	0.53	845.	3.188E-08	3.187E-08	3.154E-08	2.816E-09
A	SITE BOUNDARY	ESE	0.54	865.	1.953E-08	1.951E-08	1.931E-08	1.361E-09
A	SITE BOUNDARY	SE	0.65	1046.	1.087E-08	1.086E-08	1.071E-08	7.381E-10
A	SITE BOUNDARY	SSE	0.81	1307.	1.031E-07	1.030E-07	1.008E-07	4.109E-09
A	NEAR. RESIDENCE	SSW	1.80	2897.	5.373E-08	5.350E-08	5.231E-08	6.022E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	1.450E-07	1.444E-07	1.423E-07	1.260E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	1.568E-07	1.562E-07	1.550E-07	1.107E-09
A	NEAR. RESIDENCE	W	1.00	1609.	3.038E-07	3.030E-07	2.984E-07	2.364E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	4.094E-07	4.079E-07	4.013E-07	2.475E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	3.186E-07	3.181E-07	3.126E-07	6.705E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.928E-07	1.921E-07	1.891E-07	1.459E-09
A	NEAR. RESIDENCE	N	3.00	4828.	5.243E-08	5.213E-08	5.028E-08	5.314E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.319E-08	4.292E-08	4.165E-08	3.562E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	3.060E-08	3.049E-08	2.981E-08	3.634E-10
A	NEAR. RESIDENCE	E	1.80	2897.	2.562E-08	2.554E-08	2.492E-08	3.986E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	1.672E-08	1.664E-08	1.622E-08	1.611E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	1.314E-08	1.307E-08	1.281E-08	1.517E-10
A	NEAREST COW	NNW	3.50	5633.	1.233E-07	1.225E-07	1.202E-07	4.659E-10
A	NEAREST GARDEN	SSW	1.80	2897.	5.373E-08	5.350E-08	5.231E-08	6.022E-10
A	NEAREST GARDEN	SW	2.20	3541.	8.486E-08	8.421E-08	8.231E-08	4.151E-10
A	NEAREST GARDEN	WSW	1.30	2092.	1.568E-07	1.562E-07	1.550E-07	1.107E-09
A	NEAREST GARDEN	WNW	2.30	3702.	2.175E-07	2.163E-07	2.112E-07	1.060E-09
A	NEAREST GARDEN	NW	0.90	1448.	3.186E-07	3.181E-07	3.126E-07	6.705E-09
A	NEAREST GARDEN	N	3.00	4828.	5.243E-08	5.213E-08	5.028E-08	5.314E-10
A	NEAREST GARDEN	ENE	1.70	2736.	3.060E-08	3.049E-08	2.981E-08	3.634E-10
A	NEAREST GARDEN	E	1.80	2897.	2.562E-08	2.554E-08	2.492E-08	3.986E-10
A	NEAREST GARDEN	ESE	2.60	4184.	1.558E-08	1.550E-08	1.509E-08	1.395E-10

Atmospheric Diffusion Estimates

Elevated Releases

October-December 1996

ERP ELEVATED STACK RELEASES - OCT-DEC 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	DISTANCE IN MILES 0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.533E-08	1.146E-07	1.737E-07	1.617E-07	1.296E-07	1.001E-07	7.795E-08	6.197E-08	5.040E-08	5.206E-08	5.087E-08
SSW	1.995E-09	1.065E-08	2.307E-08	3.325E-08	3.851E-08	3.407E-08	2.845E-08	2.997E-08	2.970E-08	2.559E-08	2.238E-08
SW	3.273E-11	3.839E-09	1.942E-08	4.505E-08	8.744E-08	6.208E-08	4.594E-08	3.543E-08	2.829E-08	2.323E-08	1.951E-08
WSW	2.496E-11	1.706E-09	2.498E-08	6.690E-08	1.065E-07	6.612E-08	4.511E-08	3.292E-08	2.524E-08	2.008E-08	1.644E-08
W	2.312E-13	2.850E-08	1.375E-07	1.644E-07	1.348E-07	8.106E-08	5.424E-08	3.906E-08	2.965E-08	2.341E-08	1.904E-08
WNW	1.222E-08	5.553E-08	1.684E-07	2.446E-07	2.374E-07	1.372E-07	8.957E-08	6.501E-08	4.954E-08	3.850E-08	3.093E-08
NW	2.406E-08	5.885E-08	1.169E-07	1.829E-07	2.479E-07	1.435E-07	9.411E-08	6.809E-08	5.193E-08	4.066E-08	3.289E-08
NNW	1.027E-07	7.809E-08	8.810E-08	1.114E-07	1.461E-07	1.408E-07	1.282E-07	1.113E-07	9.553E-08	7.482E-08	6.057E-08
N	7.804E-08	1.514E-07	1.338E-07	9.550E-08	6.716E-08	5.482E-08	4.597E-08	3.830E-08	3.246E-08	2.794E-08	2.438E-08
NNE	3.657E-08	5.257E-08	5.117E-08	4.204E-08	3.455E-08	2.894E-08	2.431E-08	2.064E-08	1.777E-08	1.550E-08	1.370E-08
NE	1.162E-08	2.012E-08	2.323E-08	2.265E-08	2.187E-08	1.883E-08	1.564E-08	1.299E-08	1.092E-08	9.312E-09	8.056E-09
ENE	5.954E-09	6.788E-09	1.244E-08	1.552E-08	1.716E-08	1.543E-08	1.315E-08	1.113E-08	9.480E-09	8.164E-09	7.113E-09
E	2.025E-09	1.192E-08	1.789E-08	1.926E-08	1.878E-08	1.607E-08	1.336E-08	1.114E-08	9.396E-09	8.039E-09	6.972E-09
ESE	8.790E-09	8.780E-09	2.197E-08	3.174E-08	3.640E-08	3.242E-08	2.731E-08	2.287E-08	1.932E-08	1.651E-08	1.430E-08
SE	8.533E-09	1.946E-08	4.959E-08	7.147E-08	7.856E-08	6.715E-08	5.477E-08	4.471E-08	3.698E-08	3.106E-08	2.648E-08
SSE	2.078E-08	8.713E-08	1.309E-07	1.248E-07	1.021E-07	7.898E-08	6.136E-08	4.865E-08	3.948E-08	4.503E-08	4.385E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	DISTANCE IN MILES 5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.361E-08	2.425E-08	1.520E-08	8.318E-09	5.515E-09	4.005E-09	3.073E-09	2.458E-09	2.030E-09	1.715E-09	1.474E-09
SSW	2.038E-08	1.493E-08	9.651E-09	5.498E-09	3.886E-09	2.913E-09	2.263E-09	1.830E-09	1.525E-09	1.298E-09	1.124E-09
SW	1.786E-08	1.227E-08	7.969E-09	4.557E-09	3.133E-09	2.333E-09	1.836E-09	1.483E-09	1.232E-09	1.047E-09	9.059E-10
WSW	1.416E-08	8.130E-09	5.382E-09	3.080E-09	2.031E-09	1.474E-09	1.135E-09	9.111E-10	7.533E-10	6.373E-10	5.489E-10
W	1.587E-08	8.250E-09	5.498E-09	3.206E-09	2.169E-09	1.570E-09	1.206E-09	9.651E-10	7.963E-10	6.724E-10	5.782E-10
WNW	2.564E-08	1.309E-08	8.347E-09	4.638E-09	3.047E-09	2.201E-09	1.689E-09	1.349E-09	1.111E-09	9.362E-10	8.035E-10
NW	2.750E-08	1.452E-08	9.495E-09	5.455E-09	3.634E-09	2.657E-09	2.074E-09	1.676E-09	1.392E-09	1.183E-09	1.022E-09
NNW	5.098E-08	2.741E-08	1.763E-08	9.995E-09	6.710E-09	4.935E-09	3.855E-09	3.130E-09	2.623E-09	2.238E-09	1.939E-09
N	2.159E-08	1.370E-08	1.120E-08	8.255E-09	6.209E-09	4.757E-09	3.709E-09	3.004E-09	2.503E-09	2.133E-09	1.848E-09
NNE	1.577E-08	2.426E-08	1.577E-08	9.090E-09	6.178E-09	4.589E-09	3.603E-09	2.940E-09	2.466E-09	2.113E-09	1.841E-09
NE	8.447E-09	1.079E-08	6.951E-09	3.955E-09	2.664E-09	1.965E-09	1.550E-09	1.266E-09	1.061E-09	9.049E-10	7.854E-10
ENE	7.355E-09	7.015E-09	4.493E-09	2.526E-09	1.684E-09	1.231E-09	9.639E-10	7.819E-10	6.483E-10	5.498E-10	4.746E-10
E	7.176E-09	7.229E-09	4.652E-09	2.636E-09	1.767E-09	1.298E-09	1.010E-09	8.172E-10	6.894E-10	5.920E-10	5.124E-10
ESE	1.428E-08	1.195E-08	7.652E-09	4.290E-09	2.850E-09	2.077E-09	1.605E-09	1.291E-09	1.070E-09	9.065E-10	7.819E-10
SE	2.289E-08	1.317E-08	9.331E-09	5.727E-09	3.858E-09	2.826E-09	2.185E-09	1.754E-09	1.442E-09	1.213E-09	1.039E-09
SSE	3.621E-08	1.807E-08	1.121E-08	6.056E-09	3.948E-09	2.838E-09	2.169E-09	1.730E-09	1.423E-09	1.198E-09	1.027E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.552E-07	1.236E-07	7.747E-08	5.434E-08	4.853E-08	2.453E-08	8.602E-09	4.035E-09	2.471E-09	1.719E-09
SSW	2.483E-08	3.537E-08	3.056E-08	2.821E-08	2.259E-08	1.380E-08	5.704E-09	2.912E-09	1.837E-09	1.301E-09
SW	2.735E-08	6.675E-08	4.604E-08	2.840E-08	2.000E-08	1.160E-08	4.683E-09	2.348E-09	1.488E-09	1.050E-09
WSW	3.844E-08	7.975E-08	4.583E-08	2.547E-08	1.667E-08	8.248E-09	3.126E-09	1.487E-09	9.151E-10	6.389E-10
W	1.252E-07	1.175E-07	5.532E-08	2.996E-08	1.916E-08	8.720E-09	3.254E-09	1.584E-09	9.695E-10	6.742E-10
WNW	1.772E-07	1.945E-07	9.246E-08	4.975E-08	3.122E-08	1.377E-08	4.755E-09	2.221E-09	1.355E-09	9.389E-10
NW	1.333E-07	1.870E-07	9.688E-08	5.225E-08	3.320E-08	1.517E-08	5.543E-09	2.684E-09	1.681E-09	1.185E-09
NNW	9.621E-08	1.360E-07	1.248E-07	9.216E-08	6.124E-08	2.830E-08	1.023E-08	4.976E-09	3.144E-09	2.242E-09
N	1.207E-07	6.797E-08	4.526E-08	3.241E-08	2.440E-08	1.434E-08	7.999E-09	4.725E-09	3.015E-09	2.137E-09
NNE	4.743E-08	3.372E-08	2.407E-08	1.772E-08	1.500E-08	1.860E-08	9.281E-09	4.618E-09	2.949E-09	2.117E-09
NE	2.228E-08	2.069E-08	1.543E-08	1.090E-08	8.573E-09	8.561E-09	4.047E-09	1.985E-09	1.269E-09	9.067E-10
ENE	1.255E-08	1.603E-08	1.295E-08	9.450E-09	7.514E-09	5.970E-09	2.589E-09	1.245E-09	7.830E-10	5.511E-10
E	1.717E-08	1.768E-08	1.319E-08	9.376E-09	7.364E-09	6.072E-09	2.698E-09	1.308E-09	8.236E-10	5.914E-10
ESE	2.338E-08	3.359E-08	2.689E-08	1.926E-08	1.495E-08	1.056E-08	4.397E-09	2.095E-09	1.297E-09	9.088E-10
SE	5.262E-08	7.191E-08	5.405E-08	3.694E-08	2.651E-08	1.362E-08	5.697E-09	2.845E-09	1.758E-09	1.217E-09
SSE	1.184E-07	9.685E-08	6.097E-08	4.422E-08	4.137E-08	1.905E-08	6.264E-09	2.866E-09	1.738E-09	1.201E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.533E-08	1.146E-07	1.735E-07	1.614E-07	1.293E-07	9.974E-08	7.755E-08	6.159E-08	5.004E-08	5.162E-08	5.038E-08
SSW	1.994E-09	1.064E-08	2.304E-08	3.319E-08	3.840E-08	3.393E-08	2.830E-08	2.978E-08	2.948E-08	2.536E-08	2.216E-08
SW	3.271E-11	3.835E-09	1.939E-08	4.492E-08	8.702E-08	6.167E-08	4.555E-08	3.506E-08	2.794E-08	2.290E-08	1.919E-08
WSW	2.495E-11	1.705E-09	2.495E-08	6.676E-08	1.061E-07	6.580E-08	4.483E-08	3.268E-08	2.502E-08	1.988E-08	1.625E-08
W	2.311E-13	2.848E-08	1.373E-07	1.641E-07	1.344E-07	8.072E-08	5.395E-08	3.881E-08	2.942E-08	2.320E-08	1.886E-08
WNW	1.222E-08	5.549E-08	1.683E-07	2.442E-07	2.368E-07	1.368E-07	8.919E-08	6.467E-08	4.923E-08	3.823E-08	3.069E-08
NW	2.405E-08	5.881E-08	1.168E-07	1.826E-07	2.472E-07	1.430E-07	9.366E-08	6.769E-08	5.157E-08	4.034E-08	3.260E-08
NNW	1.027E-07	7.806E-08	8.804E-08	1.112E-07	1.458E-07	1.403E-07	1.277E-07	1.108E-07	9.498E-08	7.434E-08	6.012E-08
N	7.803E-08	1.513E-07	1.337E-07	9.540E-08	6.705E-08	5.470E-08	4.584E-08	3.817E-08	3.234E-08	2.782E-08	2.426E-08
NNE	3.656E-08	5.253E-08	5.110E-08	4.197E-08	3.445E-08	2.884E-08	2.420E-08	2.053E-08	1.765E-08	1.539E-08	1.359E-08
NE	1.161E-08	2.010E-08	2.320E-08	2.260E-08	2.178E-08	1.871E-08	1.551E-08	1.287E-08	1.080E-08	9.191E-09	7.937E-09
ENE	5.952E-09	6.784E-09	1.243E-08	1.549E-08	1.710E-08	1.536E-08	1.307E-08	1.105E-08	9.397E-09	8.082E-09	7.033E-09
E	2.024E-09	1.191E-08	1.787E-08	1.923E-08	1.873E-08	1.601E-08	1.329E-08	1.107E-08	9.325E-09	7.968E-09	6.903E-09
ESE	8.789E-09	8.776E-09	2.196E-08	3.170E-08	3.633E-08	3.232E-08	2.721E-08	2.277E-08	1.922E-08	1.641E-08	1.420E-08
SE	8.532E-09	1.945E-08	4.956E-08	7.139E-08	7.841E-08	6.697E-08	5.458E-08	4.452E-08	3.679E-08	3.088E-08	2.630E-08
SSE	2.078E-08	8.709E-08	1.308E-07	1.246E-07	1.019E-07	7.878E-08	6.116E-08	4.846E-08	3.929E-08	4.479E-08	4.358E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.314E-08	2.386E-08	1.488E-08	8.052E-09	5.281E-09	3.794E-09	2.880E-09	2.279E-09	1.863E-09	1.557E-09	1.324E-09
SSW	2.014E-08	1.462E-08	9.376E-09	5.260E-09	3.653E-09	2.692E-09	2.057E-09	1.636E-09	1.342E-09	1.123E-09	9.573E-10
SW	1.753E-08	1.192E-08	7.662E-09	4.294E-09	2.892E-09	2.110E-09	1.627E-09	1.287E-09	1.049E-09	8.737E-10	7.408E-10
WSW	1.397E-08	7.962E-09	5.231E-09	2.948E-09	1.915E-09	1.369E-09	1.039E-09	8.215E-10	6.693E-10	5.579E-10	4.735E-10
W	1.570E-08	8.113E-09	5.375E-09	3.098E-09	2.072E-09	1.483E-09	1.126E-09	8.910E-10	7.269E-10	6.069E-10	5.161E-10
WNW	2.542E-08	1.292E-08	8.199E-09	4.515E-09	2.939E-09	2.104E-09	1.600E-09	1.268E-09	1.035E-09	8.643E-10	7.354E-10
NW	2.723E-08	1.430E-08	9.307E-09	5.293E-09	3.491E-09	2.527E-09	1.953E-09	1.563E-09	1.285E-09	1.081E-09	9.259E-10
NNW	5.056E-08	2.708E-08	1.734E-08	9.752E-09	6.494E-09	4.738E-09	3.672E-09	2.958E-09	2.460E-09	2.082E-09	1.790E-09
N	2.147E-08	1.358E-08	1.107E-08	8.119E-09	6.072E-09	4.626E-09	3.587E-09	2.889E-09	2.394E-09	2.028E-09	1.748E-09
NNE	1.563E-08	2.395E-08	1.550E-08	8.860E-09	5.971E-09	4.397E-09	3.424E-09	2.770E-09	2.304E-09	1.958E-09	1.692E-09
NE	8.310E-09	1.054E-08	6.741E-09	3.779E-09	2.509E-09	1.824E-09	1.418E-09	1.142E-09	9.438E-10	7.942E-10	6.800E-10
ENE	7.263E-09	6.892E-09	4.389E-09	2.439E-09	1.608E-09	1.162E-09	9.003E-10	7.224E-10	5.925E-10	4.971E-10	4.246E-10
E	7.695E-09	7.113E-09	4.554E-09	2.554E-09	1.695E-09	1.233E-09	9.496E-10	7.611E-10	6.363E-10	5.415E-10	4.644E-10
ESE	1.417E-08	1.183E-08	7.544E-09	4.201E-09	2.772E-09	2.007E-09	1.541E-09	1.231E-09	1.014E-09	8.536E-10	7.316E-10
SE	2.271E-08	1.302E-08	9.186E-09	5.594E-09	3.740E-09	2.718E-09	2.085E-09	1.662E-09	1.356E-09	1.132E-09	9.629E-10
SSE	3.596E-08	1.788E-08	1.106E-08	5.931E-09	3.840E-09	2.742E-09	2.082E-09	1.649E-09	1.347E-09	1.127E-09	9.600E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.550E-07	1.233E-07	7.708E-08	5.394E-08	4.807E-08	2.415E-08	8.337E-09	3.825E-09	2.292E-09	1.561E-09
SSW	2.480E-08	3.526E-08	3.039E-08	2.800E-08	2.236E-08	1.352E-03	5.460E-09	2.694E-09	1.644E-09	1.127E-09
SW	2.728E-08	6.640E-08	4.565E-08	2.806E-08	1.968E-08	1.127E-08	4.420E-09	2.125E-09	1.293E-09	8.764E-10
WSW	3.837E-08	7.946E-08	4.556E-08	2.525E-08	1.648E-08	8.084E-09	2.996E-09	1.383E-09	8.257E-10	5.596E-10
W	1.250E-07	1.171E-07	5.503E-08	2.973E-08	1.897E-08	8.581E-09	3.148E-09	1.497E-09	8.956E-10	6.088E-10
WNW	1.769E-07	1.940E-07	9.207E-08	4.945E-08	3.097E-08	1.360E-08	4.633E-09	2.125E-09	1.274E-09	8.671E-10
NW	1.331E-07	1.865E-07	9.642E-08	5.190E-08	3.291E-08	1.496E-08	5.384E-09	2.555E-09	1.569E-09	1.084E-09
NNW	9.613E-08	1.357E-07	1.243E-07	9.164E-08	6.079E-08	2.797E-08	9.991E-09	4.780E-09	2.972E-09	2.086E-09
N	1.206E-07	6.786E-08	4.513E-08	3.228E-08	2.428E-08	1.422E-08	7.866E-09	4.596E-09	2.900E-09	2.033E-09
NNE	4.736E-08	3.363E-08	2.397E-08	1.761E-08	1.488E-08	1.835E-08	9.052E-09	4.428E-09	2.779E-09	1.962E-09
NE	2.224E-08	2.060E-08	1.531E-08	1.078E-08	8.447E-09	8.355E-09	3.873E-09	1.844E-09	1.146E-09	7.962E-10
ENE	1.253E-08	1.597E-08	1.287E-08	9.367E-09	7.429E-09	5.862E-09	2.503E-09	1.176E-09	7.237E-10	4.985E-10
E	1.715E-08	1.763E-08	1.313E-08	9.306E-09	7.290E-09	5.972E-09	2.617E-09	1.243E-09	7.674E-10	5.410E-10
ESE	2.336E-08	3.352E-08	2.680E-08	1.916E-08	1.485E-08	1.045E-08	4.309E-09	2.025E-09	1.237E-09	8.559E-10
SE	5.257E-08	7.176E-08	5.386E-08	3.674E-08	2.633E-08	1.347E-08	5.568E-09	2.737E-09	1.666E-09	1.136E-09
SSE	1.183E-07	9.667E-08	6.078E-08	4.401E-08	4.112E-08	1.887E-08	6.140E-09	2.771E-09	1.658E-09	1.130E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

SECTOR	DISTANCE IN MILES 0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.533E-08	1.136E-07	1.703E-07	1.582E-07	1.263E-07	9.696E-08	7.491E-08	5.909E-08	4.770E-08	4.907E-08	4.774E-08
SSW	1.995E-09	1.056E-08	2.283E-08	3.302E-08	3.802E-08	3.336E-08	2.762E-08	2.892E-08	2.852E-08	2.443E-08	2.126E-08
SW	3.272E-11	3.805E-09	1.924E-08	4.482E-08	8.654E-08	6.103E-08	4.491E-08	3.448E-08	2.742E-08	2.243E-08	1.878E-08
WSW	2.495E-11	1.694E-09	2.492E-08	6.673E-08	1.050E-07	6.452E-08	4.364E-08	3.162E-08	2.408E-08	1.905E-08	1.552E-08
W	2.311E-13	2.849E-08	1.366E-07	1.620E-07	1.312E-07	7.804E-08	5.175E-08	3.697E-08	2.787E-08	2.186E-08	1.768E-08
WNW	1.222E-08	5.510E-08	1.672E-07	2.415E-07	2.316E-07	1.320E-07	8.518E-08	6.124E-08	4.629E-08	3.567E-08	2.843E-08
NW	2.406E-08	5.832E-08	1.152E-07	1.806E-07	2.435E-07	1.396E-07	9.062E-08	6.530E-08	4.955E-08	3.857E-08	3.100E-08
NNW	1.027E-07	7.739E-08	8.675E-08	1.102E-07	1.442E-07	1.382E-07	1.255E-07	1.087E-07	9.311E-08	7.257E-08	5.842E-08
N	7.804E-08	1.500E-07	1.308E-07	9.300E-08	6.532E-08	5.330E-08	4.462E-08	3.710E-08	3.138E-08	2.696E-08	2.347E-08
NNE	3.656E-08	5.209E-08	5.011E-08	4.110E-08	3.374E-08	2.819E-08	2.359E-08	1.996E-08	1.713E-08	1.491E-08	1.315E-08
NE	1.162E-08	1.993E-08	2.278E-08	2.224E-08	2.143E-08	1.832E-08	1.510E-08	1.244E-08	1.038E-08	8.789E-09	7.553E-09
ENE	5.953E-09	6.728E-09	1.226E-08	1.533E-08	1.688E-08	1.509E-08	1.277E-08	1.074E-08	9.092E-09	7.787E-09	6.751E-09
E	2.025E-09	1.181E-08	1.759E-08	1.898E-08	1.845E-08	1.569E-08	1.296E-08	1.073E-08	9.002E-09	7.660E-09	6.611E-09
ESE	8.790E-09	8.708E-09	2.177E-08	3.153E-08	3.596E-08	3.178E-08	2.659E-08	2.213E-08	1.858E-08	1.579E-08	1.361E-08
SE	8.533E-09	1.930E-08	4.917E-08	7.106E-08	7.759E-08	6.574E-08	5.315E-08	4.303E-08	3.531E-08	2.944E-08	2.492E-08
SSE	2.078E-08	8.635E-08	1.285E-07	1.224E-07	9.975E-08	7.666E-08	5.910E-08	4.650E-08	3.744E-08	4.256E-08	4.123E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	DISTANCE IN MILES 5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.068E-08	2.196E-08	1.334E-08	6.899E-09	4.333E-09	3.003E-09	2.212E-09	1.704E-09	1.361E-09	1.115E-09	9.318E-10
SSW	1.930E-08	1.391E-08	8.695E-09	4.641E-09	3.062E-09	2.196E-09	1.641E-09	1.281E-09	1.033E-09	8.531E-10	7.179E-10
SW	1.716E-08	1.160E-08	7.271E-09	3.871E-09	2.456E-09	1.709E-09	1.285E-09	9.995E-10	8.024E-10	6.600E-10	5.535E-10
WSW	1.331E-08	7.440E-09	4.771E-09	2.585E-09	1.627E-09	1.133E-09	8.416E-10	6.531E-10	5.235E-10	4.302E-10	3.606E-10
W	1.465E-08	7.435E-09	4.858E-09	2.682E-09	1.716E-09	1.193E-09	8.831E-10	6.840E-10	5.475E-10	4.494E-10	3.763E-10
WNW	2.338E-08	1.152E-08	7.109E-09	3.724E-09	2.307E-09	1.586E-09	1.170E-09	9.033E-10	7.201E-10	5.887E-10	4.912E-10
NW	2.576E-08	1.316E-08	8.326E-09	4.485E-09	2.803E-09	1.941E-09	1.453E-09	1.134E-09	9.121E-10	7.519E-10	6.320E-10
NNW	4.869E-08	2.545E-08	1.580E-08	8.346E-09	5.174E-09	3.557E-09	2.626E-09	2.039E-09	1.650E-09	1.365E-09	1.148E-09
N	2.075E-08	1.306E-08	1.066E-08	7.835E-09	5.717E-09	4.165E-09	3.148E-09	2.479E-09	2.013E-09	1.675E-09	1.419E-09
NNE	1.519E-08	2.343E-08	1.471E-08	7.976E-09	5.118E-09	3.621E-09	2.725E-09	2.140E-09	1.734E-09	1.438E-09	1.216E-09
NE	7.909E-09	1.015E-08	6.323E-09	3.383E-09	2.145E-09	1.502E-09	1.136E-09	8.970E-10	7.287E-10	6.036E-10	5.095E-10
ENE	6.973E-09	6.607E-09	4.094E-09	2.157E-09	1.340E-09	9.221E-10	6.850E-10	5.311E-10	4.266E-10	3.513E-10	2.949E-10
E	6.798E-09	6.826E-09	4.251E-09	2.256E-09	1.408E-09	9.726E-10	7.170E-10	5.527E-10	4.458E-10	3.682E-10	3.085E-10
ESE	1.357E-08	1.124E-08	6.967E-09	3.671E-09	2.282E-09	1.572E-09	1.156E-09	8.895E-10	7.075E-10	5.772E-10	4.805E-10
SE	2.139E-08	1.198E-08	8.319E-09	4.948E-09	3.247E-09	2.327E-09	1.765E-09	1.391E-09	1.116E-09	9.189E-10	7.712E-10
SSE	3.377E-08	1.624E-08	9.716E-09	4.948E-09	3.070E-09	2.116E-09	1.553E-09	1.202E-09	9.582E-10	7.840E-10	6.546E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.523E-07	1.204E-07	7.446E-08	5.148E-08	4.552E-08	2.229E-08	7.190E-09	3.041E-09	1.719E-09	1.120E-09
SSW	2.463E-08	3.483E-08	2.967E-08	2.707E-08	2.147E-08	1.279E-08	4.840E-09	2.205E-09	1.290E-09	8.564E-10
SW	2.718E-08	6.593E-08	4.504E-08	2.754E-08	1.926E-08	1.091E-08	3.998E-09	1.739E-09	1.006E-09	6.627E-10
WSW	3.834E-08	7.851E-08	4.440E-08	2.432E-08	1.574E-08	7.558E-09	2.645E-09	1.148E-09	6.576E-10	4.321E-10
W	1.239E-07	1.144E-07	5.285E-08	2.818E-08	1.780E-08	7.894E-09	2.736E-09	1.208E-09	6.889E-10	4.514E-10
WNW	1.753E-07	1.895E-07	8.810E-08	4.652E-08	2.871E-08	1.219E-08	3.847E-09	1.612E-09	9.098E-10	5.915E-10
NW	1.317E-07	1.834E-07	9.362E-08	4.987E-08	3.130E-08	1.381E-08	4.591E-09	1.975E-09	1.140E-09	7.550E-10
NNW	9.510E-08	1.340E-07	1.222E-07	8.976E-08	5.908E-08	2.637E-08	8.593E-09	3.616E-09	2.059E-09	1.369E-09
N	1.183E-07	6.613E-08	4.392E-08	3.133E-08	2.350E-08	1.370E-08	7.522E-09	4.172E-09	2.493E-09	1.680E-09
NNE	4.655E-08	3.291E-08	2.337E-08	1.709E-08	1.443E-08	1.772E-08	8.202E-09	3.662E-09	2.152E-09	1.443E-09
NE	2.191E-08	2.023E-08	1.490E-08	1.036E-08	8.051E-09	7.951E-09	3.486E-09	1.527E-09	9.011E-10	6.058E-10
ENE	1.239E-08	1.574E-08	1.258E-08	9.065E-09	7.140E-09	5.571E-09	2.224E-09	9.386E-10	5.353E-10	3.527E-10
E	1.693E-08	1.734E-08	1.280E-08	8.985E-09	6.991E-09	5.675E-09	2.322E-09	9.863E-10	5.589E-10	3.691E-10
ESE	2.321E-08	3.312E-08	2.619E-08	1.853E-08	1.424E-08	9.857E-09	3.786E-09	1.595E-09	8.964E-10	5.800E-10
SE	5.226E-08	7.087E-08	5.246E-08	3.528E-08	2.495E-08	1.245E-08	4.941E-09	2.348E-09	1.393E-09	9.227E-10
SSE	1.164E-07	9.451E-08	5.874E-08	4.198E-08	3.886E-08	1.724E-08	5.173E-09	2.147E-09	1.211E-09	7.877E-10

ERP ELEVATED STACK RELEASES - OCT-DEC 1976
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.147E-08	9.177E-09	7.572E-09	5.098E-09	2.437E-09	1.483E-09	9.988E-10	7.158E-10	5.355E-10	4.229E-10	3.862E-10
SSW	8.525E-10	9.535E-10	1.195E-09	1.047E-09	6.016E-10	3.929E-10	2.741E-10	2.001E-10	1.880E-10	1.422E-10	1.113E-10
SW	2.855E-10	3.260E-10	4.157E-10	3.668E-10	3.683E-10	2.038E-10	1.279E-10	8.756E-11	6.361E-11	4.826E-11	3.782E-11
WSW	2.991E-10	4.072E-10	5.886E-10	1.103E-09	6.221E-10	3.376E-10	2.087E-10	1.414E-10	1.021E-10	7.716E-11	6.037E-11
W	5.414E-11	2.925E-09	2.835E-09	1.862E-09	8.922E-10	4.827E-10	2.981E-10	2.023E-10	1.466E-10	1.114E-10	8.796E-11
WNW	2.468E-09	2.325E-09	6.410E-09	4.158E-09	2.565E-09	1.280E-09	7.513E-10	4.896E-10	3.478E-10	2.577E-10	1.999E-10
NW	4.798E-09	3.821E-09	3.126E-09	3.647E-09	2.109E-09	1.049E-09	6.180E-10	4.069E-10	2.900E-10	2.199E-10	1.752E-10
NNW	9.567E-09	7.463E-09	5.872E-09	3.784E-09	2.727E-09	1.459E-09	9.020E-10	7.070E-10	5.134E-10	3.983E-10	3.260E-10
N	1.452E-08	1.085E-08	7.789E-09	4.556E-09	1.890E-09	1.075E-09	6.964E-10	4.887E-10	3.616E-10	2.780E-10	2.200E-10
NNE	3.189E-09	2.490E-09	1.963E-09	1.267E-09	5.831E-10	3.489E-10	2.328E-10	1.660E-10	1.239E-10	9.555E-11	7.564E-11
NE	1.337E-09	1.086E-09	9.203E-10	6.340E-10	3.091E-10	1.898E-10	1.283E-10	9.219E-11	6.905E-11	5.335E-11	4.224E-11
ENE	8.119E-10	7.099E-10	6.767E-10	5.094E-10	2.660E-10	1.679E-10	1.151E-10	8.334E-11	6.265E-11	4.848E-11	3.839E-11
E	1.083E-09	9.466E-10	9.022E-10	6.791E-10	3.547E-10	2.238E-10	1.535E-10	1.111E-10	8.354E-11	6.464E-11	5.118E-11
ESE	1.403E-09	1.484E-09	1.767E-09	1.512E-09	8.573E-10	5.573E-10	3.879E-10	2.829E-10	2.135E-10	1.655E-10	1.310E-10
SE	2.575E-09	2.966E-09	3.811E-09	3.373E-09	1.950E-09	1.276E-09	8.911E-10	6.509E-10	4.916E-10	3.811E-10	3.018E-10
SSE	1.148E-08	9.217E-09	7.658E-09	5.187E-09	2.493E-09	1.521E-09	1.025E-09	7.353E-10	5.502E-10	5.067E-10	4.223E-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	3.108E-10	1.563E-10	9.639E-11	5.113E-11	3.224E-11	2.710E-11	1.947E-11	1.466E-11	1.187E-11	9.475E-12	7.741E-12
SSW	9.014E-11	5.535E-11	3.632E-11	2.030E-11	1.364E-11	9.887E-12	7.086E-12	5.322E-12	4.188E-12	3.345E-12	2.731E-12
SW	3.138E-11	2.982E-11	2.169E-11	1.322E-11	8.462E-12	5.262E-12	3.723E-12	2.890E-12	2.247E-12	1.795E-12	1.465E-12
WSW	4.930E-11	3.079E-11	2.040E-11	1.332E-11	8.057E-12	5.403E-12	3.953E-12	2.968E-12	2.308E-12	1.843E-12	1.505E-12
W	7.153E-11	3.380E-11	2.565E-11	1.461E-11	1.092E-11	7.377E-12	5.286E-12	3.969E-12	3.086E-12	2.465E-12	2.012E-12
WNW	1.622E-10	7.792E-11	4.883E-11	2.616E-11	1.812E-11	1.406E-11	1.004E-11	7.542E-12	5.913E-12	4.723E-12	3.855E-12
NW	1.460E-10	7.803E-11	5.235E-11	3.384E-11	2.071E-11	1.389E-11	9.976E-12	7.491E-12	5.849E-12	4.672E-12	3.814E-12
NNW	2.793E-10	1.643E-10	1.160E-10	6.951E-11	4.475E-11	3.021E-11	2.144E-11	1.577E-11	1.223E-11	9.772E-12	7.977E-12
N	1.782E-10	8.565E-11	5.308E-11	2.904E-11	6.464E-11	3.789E-11	2.715E-11	2.038E-11	1.585E-11	1.266E-11	1.033E-11
NNE	6.114E-11	1.137E-10	7.104E-11	3.731E-11	2.291E-11	1.538E-11	1.102E-11	8.261E-12	6.414E-12	5.122E-12	4.180E-12
NE	3.411E-11	3.574E-11	2.227E-11	1.170E-11	7.186E-12	4.821E-12	3.604E-12	2.677E-12	2.185E-12	1.745E-12	1.425E-12
ENE	3.097E-11	2.671E-11	1.838E-11	1.074E-11	6.827E-12	4.580E-12	3.265E-12	2.444E-12	1.903E-12	1.523E-12	1.245E-12
E	4.130E-11	3.560E-11	2.449E-11	1.431E-11	9.097E-12	6.102E-12	4.350E-12	3.243E-12	2.506E-12	2.131E-12	1.737E-12
ESE	1.056E-10	9.419E-11	6.501E-11	3.800E-11	2.408E-11	1.606E-11	1.139E-11	8.446E-12	6.501E-12	5.159E-12	4.191E-12
SE	2.432E-10	1.154E-10	7.045E-11	3.718E-11	2.272E-11	1.555E-11	1.146E-11	1.191E-11	9.327E-12	7.522E-12	6.205E-12
SSE	3.400E-10	2.118E-10	1.284E-10	6.506E-11	3.943E-11	2.645E-11	1.896E-11	1.425E-11	1.109E-11	8.863E-12	7.240E-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	6.829E-09	2.605E-09	1.015E-09	5.441E-10	3.692E-10	1.640E-10	5.279E-11	2.542E-11	1.497E-11	9.542E-12
SSW	1.076E-09	6.077E-10	2.762E-10	1.740E-10	1.126E-10	5.462E-11	2.090E-11	9.768E-12	5.394E-12	3.367E-12
SW	3.740E-10	2.949E-10	1.320E-10	6.460E-11	3.853E-11	2.655E-11	1.299E-11	5.500E-12	2.883E-12	1.807E-12
WSW	7.771E-10	6.026E-10	2.162E-10	1.038E-10	6.124E-11	3.029E-11	1.255E-11	5.531E-12	2.998E-12	1.856E-12
W	2.423E-09	9.258E-10	3.090E-10	1.491E-10	8.884E-11	3.856E-11	1.542E-11	7.486E-12	4.009E-12	2.482E-12
WNW	4.501E-09	2.348E-09	7.876E-10	3.540E-10	2.031E-10	8.372E-11	2.762E-11	1.353E-11	7.635E-12	4.754E-12
NW	3.512E-09	1.979E-09	6.484E-10	2.967E-10	1.776E-10	8.173E-11	3.212E-11	1.414E-11	7.576E-12	4.703E-12
NNW	5.298E-09	2.398E-09	9.724E-10	5.249E-10	3.301E-10	1.684E-10	6.883E-11	3.058E-11	1.604E-11	9.836E-12
N	7.032E-09	2.120E-09	7.143E-10	3.661E-10	2.217E-10	9.174E-11	5.020E-11	4.072E-11	2.059E-11	1.274E-11
NNE	1.771E-09	6.311E-10	2.570E-10	1.251E-10	7.617E-11	8.308E-11	3.841E-11	1.564E-11	8.344E-12	5.156E-12
NE	8.298E-10	3.283E-10	1.303E-10	6.968E-11	4.252E-11	2.939E-11	1.204E-11	4.965E-12	2.754E-12	1.757E-12
ENE	6.097E-10	2.765E-10	1.165E-10	6.316E-11	3.863E-11	2.395E-11	1.070E-11	4.653E-12	2.473E-12	1.533E-12
E	8.129E-10	3.686E-10	1.553E-10	8.422E-11	5.151E-11	3.193E-11	1.425E-11	6.200E-12	3.279E-12	2.096E-12
ESE	1.591E-09	8.693E-10	3.911E-10	2.150E-10	1.318E-10	8.376E-11	3.781E-11	1.633E-11	8.546E-12	5.198E-12
SE	3.428E-09	1.967E-09	8.977E-10	4.950E-10	3.036E-10	1.238E-10	3.815E-11	1.583E-11	1.080E-11	7.569E-12
SSE	6.907E-09	2.660E-09	1.041E-09	5.865E-10	4.168E-10	2.032E-10	6.774E-11	2.692E-11	1.439E-11	8.920E-12

ERP ELEVATED STACK RELEASES - OCT-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	1.726E-07	1.724E-07	1.691E-07	7.007E-09
A	SITE BOUNDARY	SSW	0.82	1327.	2.657E-08	2.653E-08	2.633E-08	1.161E-09
A	SITE BOUNDARY	SW	0.98	1569.	4.230E-08	4.219E-08	4.208E-08	3.787E-10
A	SITE BOUNDARY	WSW	0.93	1489.	5.479E-08	5.469E-08	5.471E-08	7.396E-10
A	SITE BOUNDARY	W	0.91	1468.	1.616E-07	1.613E-07	1.596E-07	2.130E-09
A	SITE BOUNDARY	WNW	0.94	1509.	2.322E-07	2.318E-07	2.296E-07	4.661E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.328E-07	1.326E-07	1.310E-07	2.830E-09
A	SITE BOUNDARY	NNW	0.69	1106.	8.023E-08	8.018E-08	7.897E-08	6.173E-09
A	SITE BOUNDARY	N	0.67	1086.	1.394E-07	1.393E-07	1.367E-07	8.541E-09
A	SITE BOUNDARY	NNE	0.60	965.	5.184E-08	5.178E-08	5.105E-08	2.237E-09
A	SITE BOUNDARY	NE	0.62	1005.	2.148E-08	2.145E-08	2.113E-08	9.842E-10
A	SITE BOUNDARY	ENE	0.59	945.	8.409E-09	8.402E-09	8.300E-09	6.872E-10
A	SITE BOUNDARY	E	0.53	845.	1.251E-08	1.250E-08	1.238E-08	9.359E-10
A	SITE BOUNDARY	ESE	0.54	865.	9.902E-09	9.898E-09	9.807E-09	1.514E-09
A	SITE BOUNDARY	SE	0.65	1046.	3.424E-08	3.422E-08	3.390E-08	3.435E-09
A	SITE BOUNDARY	SSE	0.81	1307.	1.303E-07	1.302E-07	1.278E-07	6.961E-09
A	NEAR. RESIDENCE	SSW	1.80	2897.	3.625E-08	3.612E-08	3.561E-08	4.580E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	7.493E-08	7.463E-08	7.434E-08	4.865E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	9.982E-08	9.954E-08	9.884E-08	8.279E-10
A	NEAR. RESIDENCE	W	1.00	1609.	1.644E-07	1.641E-07	1.620E-07	1.862E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.102E-07	2.096E-07	2.044E-07	2.194E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	1.562E-07	1.560E-07	1.543E-07	4.066E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.427E-07	1.423E-07	1.403E-07	1.633E-09
A	NEAR. RESIDENCE	N	3.00	4828.	3.830E-08	3.817E-08	3.710E-08	4.887E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	2.273E-08	2.262E-08	2.203E-08	2.020E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.665E-08	1.658E-08	1.634E-08	2.158E-10
A	NEAR. RESIDENCE	E	1.80	2897.	1.722E-08	1.717E-08	1.686E-08	2.611E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.829E-08	2.819E-08	2.759E-08	4.153E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	6.199E-08	6.180E-08	6.047E-08	1.098E-09
A	NEAREST COW	NNW	3.50	5633.	9.551E-08	9.497E-08	9.310E-08	5.133E-10
A	NEAREST GARDEN	SSW	1.80	2897.	3.625E-08	3.612E-08	3.561E-08	4.580E-10
A	NEAREST GARDEN	SW	2.20	3541.	5.474E-08	5.434E-08	5.369E-08	1.670E-10
A	NEAREST GARDEN	WSW	1.30	2092.	9.982E-08	9.954E-08	9.884E-08	8.279E-10
A	NEAREST GARDEN	WNW	2.30	3702.	1.050E-07	1.046E-07	1.003E-07	9.158E-10
A	NEAREST GARDEN	NW	0.90	1448.	1.562E-07	1.560E-07	1.543E-07	4.066E-09
A	NEAREST GARDEN	N	3.00	4828.	3.830E-08	3.817E-08	3.719E-08	4.887E-10
A	NEAREST GARDEN	ENE	1.70	2736.	1.665E-08	1.658E-08	1.634E-08	2.158E-10
A	NEAREST GARDEN	E	1.80	2897.	1.722E-08	1.717E-08	1.686E-08	2.611E-10
A	NEAREST GARDEN	ESE	2.60	4184.	2.635E-08	2.625E-08	2.562E-08	3.631E-10

Atmospheric Diffusion Estimates

Elevated Releases

July-December 1996

ERP ELEVATED STACK RELEASES - JUL-DEC 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.609E-08	1.334E-07	1.839E-07	1.567E-07	1.158E-07	8.738E-08	6.758E-08	5.371E-08	4.377E-08	4.651E-08	4.757E-08
SSW	5.642E-09	3.450E-08	4.988E-08	5.120E-08	4.868E-08	4.152E-08	3.447E-08	3.694E-08	3.762E-08	3.284E-08	2.906E-08
SW	1.414E-08	4.504E-08	6.899E-08	8.552E-08	1.164E-07	7.911E-08	5.722E-08	4.351E-08	3.440E-08	2.803E-08	2.341E-08
WSW	9.441E-09	1.704E-08	4.454E-08	8.453E-08	1.441E-07	9.317E-08	6.544E-08	4.884E-08	3.811E-08	3.077E-08	2.551E-08
W	1.357E-08	9.421E-08	2.037E-07	2.305E-07	2.127E-07	1.338E-07	9.233E-08	6.807E-08	5.264E-08	4.220E-08	3.478E-08
WNW	6.513E-08	1.304E-07	2.404E-07	3.177E-07	3.415E-07	2.039E-07	1.362E-07	1.018E-07	7.947E-08	6.246E-08	5.066E-08
NW	7.508E-08	1.420E-07	2.027E-07	2.648E-07	3.918E-07	2.293E-07	1.514E-07	1.103E-07	8.460E-08	6.647E-08	5.392E-08
NNW	8.776E-08	1.095E-07	1.297E-07	1.429E-07	1.725E-07	1.637E-07	1.473E-07	1.269E-07	1.087E-07	8.514E-08	6.891E-08
N	8.291E-08	1.577E-07	1.572E-07	1.188E-07	8.411E-08	6.688E-08	5.481E-08	4.499E-08	3.774E-08	3.224E-08	2.797E-08
NNE	2.714E-08	7.753E-08	8.622E-08	6.861E-08	5.192E-08	4.207E-08	3.481E-08	2.930E-08	2.506E-08	2.175E-08	1.914E-08
NE	1.875E-08	4.900E-08	5.753E-08	4.555E-08	3.288E-08	2.541E-08	2.023E-08	1.653E-08	1.380E-08	1.175E-08	1.018E-08
ENE	4.485E-09	2.126E-08	2.928E-08	2.779E-08	2.479E-08	2.092E-08	1.741E-08	1.458E-08	1.237E-08	1.064E-08	9.267E-09
E	2.716E-09	2.049E-08	2.896E-08	2.717E-08	2.362E-08	1.964E-08	1.621E-08	1.351E-08	1.144E-08	9.834E-09	8.576E-09
ESE	5.447E-09	1.293E-08	2.451E-08	2.902E-08	2.998E-08	2.620E-08	2.201E-08	1.847E-08	1.565E-08	1.342E-08	1.167E-08
SE	4.538E-09	1.336E-08	3.251E-08	4.492E-08	4.877E-08	4.193E-08	3.448E-08	2.839E-08	2.368E-08	2.005E-08	1.722E-08
SSE	1.554E-08	8.295E-08	1.196E-07	1.085E-07	8.572E-08	6.643E-08	5.211E-08	4.179E-08	3.429E-08	4.270E-08	4.632E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.146E-08	2.479E-08	1.575E-08	8.789E-09	5.958E-09	4.398E-09	3.402E-09	2.741E-09	2.283E-09	1.942E-09	1.677E-09
SSW	2.678E-08	1.959E-08	1.265E-08	7.203E-09	5.039E-09	3.759E-09	2.921E-09	2.363E-09	1.969E-09	1.677E-09	1.453E-09
SW	2.126E-08	1.441E-08	9.328E-09	5.321E-09	3.660E-09	2.727E-09	2.147E-09	1.735E-09	1.443E-09	1.227E-09	1.062E-09
WSW	2.248E-08	1.403E-08	9.621E-09	5.699E-09	3.871E-09	2.802E-09	2.180E-09	1.765E-09	1.470E-09	1.252E-09	1.085E-09
W	2.931E-08	1.588E-08	1.106E-08	6.819E-09	4.715E-09	3.520E-09	2.736E-09	2.213E-09	1.843E-09	1.568E-09	1.359E-09
WNW	4.248E-08	2.267E-08	1.487E-08	8.597E-09	5.781E-09	4.250E-09	3.312E-09	2.679E-09	2.226E-09	1.891E-09	1.635E-09
NW	4.524E-08	2.420E-08	1.597E-08	9.277E-09	6.226E-09	4.579E-09	3.591E-09	2.913E-09	2.428E-09	2.069E-09	1.794E-09
NNW	5.805E-08	3.141E-08	2.022E-08	1.149E-08	7.729E-09	5.695E-09	4.460E-09	3.629E-09	3.053E-09	2.611E-09	2.264E-09
N	2.466E-08	1.548E-08	1.270E-08	9.672E-09	7.503E-09	5.856E-09	4.580E-09	3.717E-09	3.101E-09	2.645E-09	2.295E-09
NNE	2.154E-08	2.981E-08	1.931E-08	1.107E-08	7.507E-09	5.565E-09	4.363E-09	3.554E-09	2.978E-09	2.549E-09	2.219E-09
NE	1.094E-08	1.460E-08	9.422E-09	5.385E-09	3.647E-09	2.701E-09	2.137E-09	1.749E-09	1.468E-09	1.255E-09	1.092E-09
ENE	9.686E-09	1.071E-08	6.954E-09	3.990E-09	2.701E-09	1.998E-09	1.604E-09	1.325E-09	1.106E-09	9.439E-10	8.193E-10
E	9.109E-09	1.163E-08	7.610E-09	4.411E-09	3.006E-09	2.236E-09	1.757E-09	1.434E-09	1.230E-09	1.071E-09	9.317E-10
ESE	1.183E-08	1.136E-08	7.386E-09	4.233E-09	2.858E-09	2.110E-09	1.647E-09	1.337E-09	1.116E-09	9.521E-10	8.261E-10
SE	1.499E-08	8.909E-09	6.629E-09	4.524E-09	3.250E-09	2.525E-09	2.064E-09	1.744E-09	1.457E-09	1.244E-09	1.080E-09
SSE	3.880E-08	2.039E-08	1.284E-08	7.097E-09	4.700E-09	3.421E-09	2.643E-09	2.127E-09	1.763E-09	1.495E-09	1.290E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.606E-07	1.123E-07	6.731E-08	4.765E-08	4.499E-08	2.448E-08	9.078E-09	4.416E-09	2.755E-09	1.945E-09
SSW	4.705E-08	4.606E-08	3.734E-08	3.561E-08	2.933E-08	1.810E-08	7.452E-09	3.765E-09	2.373E-09	1.680E-09
SW	7.101E-08	9.295E-08	5.757E-08	3.457E-08	2.398E-08	1.367E-08	5.473E-09	2.744E-09	1.742E-09	1.230E-09
WSW	5.620E-08	1.082E-07	6.619E-08	3.838E-08	2.594E-08	1.395E-08	5.734E-09	2.824E-09	1.771E-09	1.255E-09
W	1.913E-07	1.816E-07	9.367E-08	5.307E-08	3.495E-08	1.673E-08	6.859E-09	3.544E-09	2.221E-09	1.572E-09
WNW	2.503E-07	2.751E-07	1.405E-07	7.936E-08	5.113E-08	2.360E-08	8.738E-09	4.283E-09	2.687E-09	1.895E-09
NW	2.168E-07	2.914E-07	1.558E-07	8.504E-08	5.442E-08	2.522E-08	9.408E-09	4.623E-09	2.922E-09	2.074E-09
NNW	1.311E-07	1.620E-07	1.435E-07	1.049E-07	6.970E-08	3.236E-08	1.176E-08	5.743E-09	3.647E-09	2.614E-09
N	1.402E-07	8.415E-08	5.410E-08	3.772E-08	2.801E-08	1.628E-08	9.381E-09	5.785E-09	3.729E-09	2.650E-09
NNE	7.646E-08	5.125E-08	3.454E-08	2.501E-08	2.080E-08	2.330E-08	1.132E-08	5.602E-09	3.566E-09	2.554E-09
NE	5.031E-08	3.238E-08	2.013E-08	1.380E-08	1.093E-08	1.148E-08	5.509E-09	2.728E-09	1.753E-09	1.258E-09
ENE	2.684E-08	2.374E-08	1.722E-08	1.234E-08	9.828E-09	8.812E-09	4.076E-09	2.028E-09	1.321E-09	9.459E-10
E	2.628E-08	2.264E-08	1.605E-08	1.142E-08	9.146E-09	9.284E-09	4.498E-09	2.250E-09	1.449E-09	1.067E-09
ESE	2.394E-08	2.809E-08	2.171E-08	1.561E-08	1.225E-08	9.700E-09	4.323E-09	2.124E-09	1.341E-09	9.540E-10
SE	3.377E-08	4.488E-08	3.403E-08	2.364E-08	1.724E-08	9.248E-09	4.426E-09	2.534E-09	1.726E-09	1.246E-09
SSE	1.065E-07	8.221E-08	5.180E-08	3.964E-08	4.246E-08	2.113E-08	7.309E-09	3.451E-09	2.135E-09	1.498E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.609E-08	1.332E-07	1.836E-07	1.564E-07	1.155E-07	8.703E-08	6.724E-08	5.337E-08	4.345E-08	4.611E-08	4.711E-08
SSW	5.640E-09	3.447E-08	4.981E-08	5.110E-08	4.853E-08	4.133E-08	3.427E-08	3.667E-08	3.730E-08	3.252E-08	2.873E-08
SW	1.413E-08	4.497E-08	6.883E-08	8.525E-08	1.158E-07	7.858E-08	5.672E-08	4.305E-08	3.397E-08	2.764E-08	2.304E-08
WSW	9.435E-09	1.702E-08	4.448E-08	8.434E-08	1.436E-07	9.267E-08	6.500E-08	4.844E-08	3.775E-08	3.043E-08	2.519E-08
W	1.356E-08	9.409E-08	2.033E-07	2.300E-07	2.119E-07	1.330E-07	9.171E-08	6.751E-08	5.213E-08	4.172E-08	3.434E-08
WNW	6.510E-08	1.303E-07	2.401E-07	3.171E-07	3.404E-07	2.031E-07	1.355E-07	1.011E-07	7.885E-08	6.189E-08	5.015E-08
NW	7.506E-08	1.419E-07	2.024E-07	2.643E-07	3.908E-07	2.285E-07	1.507E-07	1.097E-07	8.405E-08	6.597E-08	5.347E-08
NNW	8.774E-08	1.094E-07	1.296E-07	1.427E-07	1.720E-07	1.632E-07	1.466E-07	1.262E-07	1.081E-07	8.454E-08	6.836E-08
N	8.289E-08	1.576E-07	1.570E-07	1.186E-07	8.391E-08	6.668E-08	5.460E-08	4.479E-08	3.754E-08	3.205E-08	2.778E-08
NNE	2.713E-08	7.747E-08	8.611E-08	6.849E-08	5.177E-08	4.190E-08	3.463E-08	2.911E-08	2.487E-08	2.156E-08	1.895E-08
NE	1.874E-08	4.895E-08	5.745E-08	4.546E-08	3.277E-08	2.528E-08	2.010E-08	1.640E-08	1.368E-08	1.153E-08	1.006E-08
ENE	4.482E-09	2.122E-08	2.922E-08	2.773E-08	2.471E-08	2.083E-08	1.731E-08	1.448E-08	1.227E-08	1.053E-08	9.166E-09
E	2.715E-09	2.048E-08	2.894E-08	2.713E-08	2.356E-08	1.957E-08	1.613E-08	1.343E-08	1.136E-08	9.751E-09	8.495E-09
ESE	5.446E-09	1.292E-08	2.448E-08	2.898E-08	2.991E-08	2.612E-08	2.192E-08	1.838E-08	1.556E-08	1.333E-08	1.158E-08
SE	4.537E-09	1.335E-08	3.249E-08	4.487E-08	4.867E-08	4.180E-08	3.435E-08	2.825E-08	2.354E-08	1.991E-08	1.709E-08
SSE	1.553E-08	8.281E-08	1.195E-07	1.084E-07	8.556E-08	6.624E-08	5.193E-08	4.161E-08	3.411E-08	4.244E-08	4.599E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.102E-08	2.440E-08	1.542E-08	8.512E-09	5.711E-09	4.172E-09	3.195E-09	2.548E-09	2.100E-09	1.768E-09	1.512E-09
SSW	2.643E-08	1.917E-08	1.229E-08	6.892E-09	4.745E-09	3.484E-09	2.667E-09	2.124E-09	1.744E-09	1.462E-09	1.248E-09
SW	2.088E-08	1.400E-08	8.979E-09	5.024E-09	3.389E-09	2.476E-09	1.912E-09	1.516E-09	1.237E-09	1.032E-09	8.767E-10
WSW	2.217E-08	1.373E-08	9.353E-09	5.462E-09	3.607E-09	2.612E-09	2.004E-09	1.600E-09	1.315E-09	1.105E-09	9.448E-10
W	2.890E-08	1.555E-08	1.075E-08	6.525E-09	4.510E-09	3.269E-09	2.503E-09	1.995E-09	1.637E-09	1.373E-09	1.172E-09
WNW	4.200E-08	2.227E-08	1.453E-08	8.298E-09	5.512E-09	4.006E-09	3.084E-09	2.465E-09	2.025E-09	1.700E-09	1.453E-09
NW	4.482E-08	2.387E-08	1.567E-08	9.018E-09	5.996E-09	4.369E-09	3.394E-09	2.728E-09	2.253E-09	1.902E-09	1.634E-09
NNW	5.753E-08	3.097E-08	1.985E-08	1.117E-08	7.445E-09	5.435E-09	4.216E-09	3.398E-09	2.831E-09	2.398E-09	2.061E-09
N	2.447E-08	1.530E-08	1.251E-08	9.456E-09	7.280E-09	5.638E-09	4.376E-09	3.525E-09	2.920E-09	2.472E-09	2.129E-09
NNE	2.130E-08	2.930E-08	1.887E-08	1.070E-08	7.173E-09	5.258E-09	4.076E-09	3.284E-09	2.722E-09	2.305E-09	1.984E-09
NE	1.079E-08	1.434E-08	9.202E-09	5.200E-09	3.483E-09	2.552E-09	1.997E-09	1.617E-09	1.343E-09	1.136E-09	9.782E-10
ENE	9.567E-09	1.052E-08	6.790E-09	3.851E-09	2.577E-09	1.885E-09	1.497E-09	1.223E-09	1.010E-09	8.522E-10	7.317E-10
E	9.014E-09	1.145E-08	7.447E-09	4.267E-09	2.878E-09	2.117E-09	1.645E-09	1.328E-09	1.126E-09	9.686E-10	8.336E-10
ESE	1.174E-08	1.123E-08	7.267E-09	4.132E-09	2.768E-09	2.027E-09	1.570E-09	1.264E-09	1.047E-09	8.863E-10	7.632E-10
SE	1.486E-08	8.783E-09	6.498E-09	4.377E-09	3.104E-09	2.379E-09	1.916E-09	1.595E-09	1.315E-09	1.108E-09	9.495E-10
SSE	3.850E-08	2.014E-08	1.264E-08	6.927E-09	4.551E-09	3.286E-09	2.518E-09	2.010E-09	1.653E-09	1.390E-09	1.191E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.603E-07	1.119E-07	6.697E-08	4.730E-08	4.456E-08	2.410E-08	8.802E-09	4.192E-09	2.562E-09	1.772E-09
SSW	4.697E-08	4.590E-08	3.712E-08	3.530E-08	2.900E-08	1.772E-08	7.137E-09	3.493E-09	2.134E-09	1.466E-09
SW	7.083E-08	9.246E-08	5.708E-08	3.415E-08	2.360E-08	1.330E-08	5.176E-09	2.494E-09	1.523E-09	1.035E-09
WSW	5.609E-08	1.078E-07	6.576E-08	3.801E-08	2.563E-08	1.366E-08	5.502E-09	2.634E-09	1.607E-09	1.108E-09
W	1.909E-07	1.808E-07	9.305E-08	5.256E-08	3.451E-08	1.638E-08	6.568E-09	3.294E-09	2.004E-09	1.377E-09
WNW	2.499E-07	2.742E-07	1.397E-07	7.875E-08	5.061E-08	2.321E-08	8.444E-09	4.039E-09	2.475E-09	1.705E-09
NW	2.165E-07	2.905E-07	1.550E-07	8.450E-08	5.397E-08	2.488E-08	9.153E-09	4.413E-09	2.737E-09	1.907E-09
NNW	1.309E-07	1.616E-07	1.429E-07	1.043E-07	6.914E-08	3.193E-08	1.144E-08	5.483E-09	3.416E-09	2.402E-09
N	1.400E-07	8.395E-08	5.389E-08	3.752E-08	2.782E-08	1.610E-08	9.168E-09	5.571E-09	3.538E-09	2.477E-09
NNE	7.636E-08	5.110E-08	3.436E-08	2.482E-08	2.059E-08	2.289E-08	1.095E-08	5.296E-09	3.296E-09	2.310E-09
NE	5.023E-08	3.226E-08	2.000E-08	1.367E-08	1.080E-08	1.127E-08	5.326E-09	2.578E-09	1.621E-09	1.139E-09
ENE	2.678E-08	2.366E-08	1.712E-08	1.224E-08	9.720E-09	8.649E-09	3.938E-09	1.914E-09	1.220E-09	8.542E-10
E	2.626E-08	2.258E-08	1.597E-08	1.134E-08	9.059E-09	9.129E-09	4.357E-09	2.131E-09	1.342E-09	9.653E-10
ESE	2.391E-08	2.802E-08	2.162E-08	1.552E-08	1.216E-08	9.580E-09	4.222E-09	2.042E-09	1.269E-09	8.884E-10
SE	3.374E-08	4.477E-08	3.390E-08	2.350E-08	1.710E-08	9.118E-09	4.282E-09	2.387E-09	1.580E-09	1.111E-09
SSE	1.064E-07	8.204E-08	5.162E-08	3.943E-08	4.216E-08	2.089E-08	7.140E-09	3.316E-09	2.019E-09	1.394E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.609E-08	1.321E-07	1.800E-07	1.529E-07	1.125E-07	8.440E-08	6.484E-08	5.118E-08	4.144E-08	4.397E-08	4.494E-08
SSW	5.642E-09	3.418E-08	4.898E-08	5.033E-08	4.774E-08	4.047E-08	3.338E-08	3.565E-08	3.622E-08	3.148E-08	2.776E-08
SW	1.414E-08	4.461E-08	6.766E-08	8.419E-08	1.145E-07	7.729E-08	5.556E-08	4.202E-08	3.306E-08	2.683E-08	2.232E-08
WSW	9.439E-09	1.689E-08	4.400E-08	8.389E-08	1.422E-07	9.128E-08	6.375E-08	4.734E-08	3.679E-08	2.959E-08	2.446E-08
W	1.356E-08	9.288E-08	2.009E-07	2.267E-07	2.082E-07	1.302E-07	8.942E-08	6.366E-08	5.060E-08	4.043E-08	3.323E-08
WNW	6.512E-08	1.293E-07	2.376E-07	3.133E-07	3.345E-07	1.978E-07	1.311E-07	9.[illegible]4E-08	7.573E-08	5.916E-08	4.770E-08
NW	7.508E-08	1.407E-07	1.989E-07	2.607E-07	3.862E-07	2.244E-07	1.474E-07	1.[illegible]0E-07	8.179E-08	6.396E-08	5.161E-08
NNW	8.775E-08	1.085E-07	1.274E-07	1.408E-07	1.699E-07	1.606E-07	1.441E-07	1.239E-07	1.060E-07	8.259E-08	6.648E-08
N	8.291E-08	1.562E-07	1.537E-07	1.156E-07	8.168E-08	6.481E-08	5.297E-08	4.334E-08	3.625E-08	3.088E-08	2.672E-08
NNE	2.713E-08	7.682E-08	8.434E-08	6.686E-08	5.050E-08	4.082E-08	3.368E-08	2.826E-08	2.410E-08	2.086E-08	1.831E-08
NE	1.874E-08	4.854E-08	5.625E-08	4.432E-08	3.188E-08	2.453E-08	1.944E-08	1.579E-08	1.313E-08	1.113E-08	9.595E-09
ENE	4.484E-09	2.106E-08	2.871E-08	2.725E-08	2.426E-08	2.038E-08	1.687E-08	1.406E-08	1.186E-08	1.016E-08	8.812E-09
E	2.716E-09	2.031E-08	2.840E-08	2.663E-08	2.310E-08	1.912E-08	1.569E-08	1.301E-08	1.096E-08	9.378E-09	8.145E-09
ESE	2.446E-09	1.282E-08	2.414E-08	2.865E-08	2.950E-08	2.563E-08	2.140E-08	1.785E-08	1.505E-08	1.285E-08	1.112E-08
SE	4.538E-09	1.325E-08	3.219E-08	4.460E-08	4.813E-08	4.104E-08	3.347E-08	2.734E-08	2.264E-08	1.904E-08	1.626E-08
SSE	1.553E-08	8.211E-08	1.172E-07	1.062E-07	8.362E-08	6.443E-08	5.022E-08	4.001E-08	3.263E-08	4.071E-08	4.419E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.902E-08	2.279E-08	1.403E-08	7.366E-09	4.688E-09	3.278E-09	2.429E-09	1.883E-09	1.514E-09	1.249E-09	1.049E-09
SSW	2.553E-08	1.837E-08	1.147E-08	6.106E-09	3.974E-09	2.836E-09	2.122E-09	1.658E-09	1.338E-09	1.105E-09	9.304E-10
SW	2.023E-08	1.348E-08	8.434E-09	4.490E-09	2.861E-09	1.998E-09	1.505E-09	1.171E-09	9.411E-10	7.748E-10	6.502E-10
WSW	2.152E-08	1.313E-08	8.712E-09	4.876E-09	3.115E-09	2.197E-09	1.649E-09	1.291E-09	1.044E-09	8.641E-10	7.291E-10
W	2.794E-08	1.496E-08	1.030E-08	5.969E-09	3.920E-09	2.768E-09	2.074E-09	1.623E-09	1.310E-09	1.084E-09	9.138E-10
WNW	3.976E-08	2.052E-08	1.302E-08	7.044E-09	4.400E-09	3.048E-09	2.274E-09	1.774E-09	1.426E-09	1.174E-09	9.855E-10
NW	4.306E-08	2.230E-08	1.422E-08	7.718E-09	4.867E-09	3.396E-09	2.555E-09	2.003E-09	1.618E-09	1.339E-09	1.129E-09
NNW	5.569E-08	2.916E-08	1.813E-08	9.586E-09	5.950E-09	4.094E-09	3.025E-09	2.348E-09	1.904E-09	1.577E-09	1.328E-09
N	2.349E-08	1.460E-08	1.197E-08	9.091E-09	6.869E-09	5.101E-09	3.865E-09	3.048E-09	2.478E-09	2.062E-09	1.749E-09
NNE	2.069E-08	2.867E-08	1.793E-08	9.640E-09	6.128E-09	4.303E-09	3.217E-09	2.511E-09	2.023E-09	1.670E-09	1.406E-09
NE	1.034E-08	1.389E-08	8.668E-09	4.660E-09	2.976E-09	2.098E-09	1.593E-09	1.262E-09	1.028E-09	8.544E-10	7.237E-10
ENE	9.214E-09	1.019E-08	6.399E-09	3.430E-09	2.151E-09	1.491E-09	1.130E-09	8.909E-10	7.181E-10	5.930E-10	4.992E-10
E	8.663E-09	1.112E-08	7.036E-09	3.806E-09	2.398E-09	1.668E-09	1.236E-09	9.570E-10	7.813E-10	6.512E-10	5.468E-10
ESE	1.127E-08	1.079E-08	6.790E-09	3.647E-09	2.291E-09	1.590E-09	1.176E-09	9.095E-10	7.261E-10	5.943E-10	4.960E-10
SE	1.407E-08	8.173E-09	5.998E-09	4.029E-09	2.855E-09	2.196E-09	1.781E-09	1.493E-09	1.225E-09	1.029E-09	8.792E-10
SSE	3.678E-08	1.869E-08	1.136E-08	5.908E-09	3.704E-09	2.573E-09	1.908E-09	1.479E-09	1.185E-09	9.733E-10	8.155E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	SEGMENT BOUNDARIES IN MILES 1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.573E-07	1.090E-07	6.459E-08	4.519E-08	4.246E-08	2.250E-08	7.656E-09	3.314E-09	1.898E-09	1.253E-09
SSW	4.629E-08	4.509E-08	3.618E-08	3.425E-08	2.804E-08	1.689E-08	6.350E-09	2.854E-09	1.669E-09	1.109E-09
SW	6.989E-08	9.123E-08	5.594E-08	3.324E-08	2.288E-08	1.274E-08	4.642E-09	2.031E-09	1.179E-09	7.779E-10
WSW	5.570E-08	1.066E-07	6.453E-08	3.706E-08	2.489E-08	1.303E-08	4.946E-09	2.223E-09	1.299E-09	8.673E-10
W	1.884E-07	1.776E-07	9.078E-08	5.103E-08	3.340E-08	1.577E-08	6.020E-09	2.797E-09	1.633E-09	1.088E-09
WNW	2.472E-07	2.691E-07	1.354E-07	7.562E-08	4.816E-08	2.146E-08	7.197E-09	3.099E-09	1.784E-09	1.179E-09
NW	2.135E-07	2.864E-07	1.518E-07	8.220E-08	5.210E-08	2.332E-08	7.895E-09	3.452E-09	2.014E-09	1.344E-09
NNW	1.291E-07	1.593E-07	1.404E-07	1.022E-07	6.726E-08	3.015E-08	9.868E-09	4.161E-09	2.372E-09	1.582E-09
N	1.374E-07	8.173E-08	5.228E-08	3.623E-08	2.676E-08	1.541E-08	8.742E-09	5.078E-09	3.064E-09	2.069E-09
NNE	7.490E-08	4.983E-08	3.341E-08	2.405E-08	1.995E-08	2.212E-08	9.921E-09	4.355E-09	2.527E-09	1.677E-09
NE	4.923E-08	3.137E-08	1.934E-08	1.313E-08	1.032E-08	1.078E-08	4.802E-09	2.130E-09	1.267E-09	8.574E-10
ENE	2.636E-08	2.320E-08	1.668E-08	1.184E-08	9.359E-09	8.287E-09	3.521E-09	1.523E-09	8.935E-10	5.953E-10
E	2.581E-08	2.211E-08	1.553E-08	1.094E-08	8.702E-09	8.759E-09	3.898E-09	1.690E-09	9.698E-10	6.511E-10
ESE	2.363E-08	2.759E-08	2.111E-08	1.501E-08	1.168E-08	9.117E-09	3.743E-09	1.612E-09	9.159E-10	5.969E-10
SE	3.350E-08	4.419E-08	3.304E-08	2.261E-08	1.627E-08	8.517E-09	3.945E-09	2.206E-09	1.473E-09	1.032E-09
SSE	1.045E-07	8.011E-08	4.992E-08	3.782E-08	4.041E-08	1.945E-08	6.140E-09	2.609E-09	1.489E-09	9.776E-10

ERP ELEVATED STACK RELEASES - JUL-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.146E-08	8.912E-09	6.972E-09	4.469E-09	2.042E-09	1.218E-09	8.110E-10	5.779E-10	4.310E-10	3.374E-10	3.077E-10
SSW	2.274E-09	1.970E-09	1.853E-09	1.382E-09	7.168E-10	4.512E-10	3.091E-10	2.235E-10	2.047E-10	1.549E-10	1.213E-10
SW	1.965E-09	1.576E-09	1.306E-09	8.828E-10	6.367E-10	3.482E-10	2.176E-10	1.487E-10	1.080E-10	8.195E-11	6.429E-11
WSW	1.280E-09	1.112E-09	1.049E-09	1.342E-09	7.160E-10	3.859E-10	2.379E-10	1.610E-10	1.162E-10	8.781E-11	6.872E-11
W	1.569E-09	4.150E-09	3.394E-09	2.100E-09	9.578E-10	5.152E-10	3.175E-10	2.150E-10	1.554E-10	1.178E-10	9.262E-11
WNW	5.626E-09	4.573E-09	7.336E-09	4.835E-09	2.716E-09	1.368E-09	8.106E-10	5.357E-10	3.915E-10	2.957E-10	2.345E-10
NW	8.772E-09	6.671E-09	4.982E-09	4.633E-09	2.493E-09	1.244E-09	7.403E-10	4.958E-10	3.621E-10	2.834E-10	2.340E-10
NNW	9.360E-09	7.276E-09	5.684E-09	3.638E-09	2.591E-09	1.385E-09	8.552E-10	6.728E-10	4.909E-10	3.831E-10	3.155E-10
N	1.377E-08	1.037E-08	7.579E-09	4.527E-09	1.923E-09	1.107E-09	7.223E-10	5.089E-10	3.774E-10	2.904E-10	2.298E-10
NNE	5.157E-09	3.947E-09	2.989E-09	1.854E-09	8.196E-10	4.814E-10	3.178E-10	2.254E-10	1.677E-10	1.292E-10	1.023E-10
NE	3.478E-09	2.629E-09	1.938E-09	1.168E-09	5.012E-10	2.900E-10	1.898E-10	1.340E-10	9.942E-11	7.652E-11	6.057E-11
ENE	1.273E-09	1.073E-09	9.676E-10	7.001E-10	3.550E-10	2.215E-10	1.510E-10	1.090E-10	8.181E-11	6.326E-11	5.009E-11
E	2.380E-09	1.877E-09	1.507E-09	9.906E-10	4.634E-10	2.794E-10	1.871E-10	1.338E-10	9.992E-11	7.711E-11	6.105E-11
ESE	1.579E-09	1.450E-09	1.478E-09	1.161E-09	6.248E-10	3.987E-10	2.750E-10	1.996E-10	1.503E-10	1.164E-10	9.214E-11
SE	1.781E-09	1.929E-09	2.351E-09	2.032E-09	1.160E-09	7.556E-10	5.265E-10	3.841E-10	2.899E-10	2.247E-10	1.780E-10
SSE	9.617E-09	7.661E-09	6.212E-09	4.118E-09	1.941E-09	1.175E-09	7.883E-10	5.640E-10	4.215E-10	3.269E-10	3.349E-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	2.477E-10	1.388E-10	8.928E-11	4.946E-11	3.157E-11	2.411E-11	1.733E-11	1.305E-11	1.047E-11	8.357E-12	6.827E-12
SSW	9.881E-11	6.715E-11	4.550E-11	2.625E-11	1.688E-11	1.190E-11	8.526E-12	6.405E-12	5.072E-12	4.052E-12	3.307E-12
SW	5.354E-11	3.992E-11	2.773E-11	1.637E-11	1.051E-11	7.067E-12	4.944E-12	3.868E-12	3.007E-12	2.402E-12	1.961E-12
WSW	5.569E-11	4.603E-11	3.274E-11	2.011E-11	1.217E-11	8.159E-12	5.953E-12	4.470E-12	3.475E-12	2.776E-12	2.266E-12
W	7.494E-11	3.465E-11	3.855E-11	2.522E-11	1.595E-11	1.076E-11	7.710E-12	5.789E-12	4.501E-12	3.596E-12	2.935E-12
WNW	1.962E-10	1.039E-10	6.932E-11	3.958E-11	2.628E-11	1.883E-11	1.332E-11	1.001E-11	7.832E-12	6.256E-12	5.106E-12
NW	2.021E-10	1.218E-10	8.706E-11	5.346E-11	3.290E-11	2.216E-11	1.567E-11	1.177E-11	9.169E-12	7.324E-12	5.978E-12
NNW	2.722E-10	1.635E-10	1.166E-10	7.048E-11	4.544E-11	3.064E-11	2.170E-11	1.565E-11	1.215E-11	9.706E-12	7.923E-12
N	1.861E-10	8.930E-11	5.526E-11	3.013E-11	6.195E-11	3.727E-11	2.665E-11	2.002E-11	1.557E-11	1.244E-11	1.015E-11
NNE	8.272E-11	1.297E-10	8.215E-11	4.381E-11	2.704E-11	1.814E-11	1.297E-11	9.708E-12	7.526E-12	6.002E-12	4.892E-12
NE	4.902E-11	6.199E-11	3.881E-11	2.050E-11	1.265E-11	8.521E-12	6.171E-12	4.602E-12	3.646E-12	2.912E-12	2.377E-12
ENE	4.043E-11	3.927E-11	2.781E-11	1.665E-11	1.065E-11	7.134E-12	5.071E-12	3.637E-12	2.834E-12	2.270E-12	1.858E-12
E	4.933E-11	5.209E-11	3.770E-11	2.301E-11	1.483E-11	9.953E-12	7.085E-12	5.268E-12	4.057E-12	3.053E-12	2.486E-12
ESE	7.431E-11	7.230E-11	5.105E-11	3.044E-11	1.941E-11	1.296E-11	9.186E-12	6.804E-12	5.231E-12	4.147E-12	3.364E-12
SE	1.434E-10	6.806E-11	4.158E-11	2.197E-11	1.345E-11	9.236E-12	6.838E-12	7.569E-12	5.932E-12	4.791E-12	3.961E-12
SSE	2.740E-10	1.826E-10	1.116E-10	5.705E-11	3.468E-11	2.326E-11	1.666E-11	1.251E-11	9.721E-12	7.766E-12	6.339E-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	6.291E-09	2.215E-09	8.263E-10	4.373E-10	2.943E-10	1.410E-10	5.036E-11	2.339E-11	1.329E-11	8.418E-12
SSW	1.669E-09	7.465E-10	3.127E-10	1.911E-10	1.230E-10	6.456E-11	2.637E-11	1.188E-11	6.503E-12	4.078E-12
SW	1.178E-09	5.632E-10	2.249E-10	1.097E-10	6.554E-11	3.752E-11	1.629E-11	7.137E-12	3.848E-12	2.418E-12
WSW	1.193E-09	7.083E-10	2.466E-10	1.182E-10	6.955E-11	4.227E-11	1.939E-11	8.345E-12	4.515E-12	2.794E-12
W	2.987E-09	1.015E-09	3.292E-10	1.581E-10	9.354E-11	4.534E-11	2.406E-11	1.092E-11	5.848E-12	3.619E-12
WNW	5.610E-09	2.588E-09	8.491E-10	3.962E-10	2.384E-10	1.091E-10	4.028E-11	1.861E-11	1.013E-11	6.297E-12
NW	5.202E-09	2.414E-09	7.769E-10	3.703E-10	2.368E-10	1.242E-10	5.179E-11	2.242E-11	1.189E-11	7.372E-12
NNW	5.128E-09	2.287E-09	9.235E-10	5.018E-10	3.195E-10	1.668E-10	6.961E-11	3.101E-11	1.604E-11	9.770E-12
N	6.842E-09	2.139E-09	7.395E-10	3.818E-10	2.316E-10	9.567E-11	4.986E-11	3.960E-11	2.022E-11	1.252E-11
NNE	2.697E-09	8.990E-10	3.244E-10	1.695E-10	1.030E-10	9.813E-11	4.488E-11	1.844E-11	9.808E-12	6.042E-12
NE	1.749E-09	5.555E-10	1.942E-10	1.006E-10	6.102E-11	4.881E-11	2.108E-11	8.682E-12	4.686E-12	2.931E-12
ENE	8.722E-10	3.724E-10	1.530E-10	8.251E-11	5.041E-11	3.443E-11	1.646E-11	7.247E-12	3.741E-12	2.284E-12
E	1.360E-09	4.988E-10	1.904E-10	1.009E-10	6.147E-11	4.508E-11	2.264E-11	1.011E-11	5.326E-12	3.141E-12
ESE	1.331E-09	6.435E-10	2.778E-10	1.515E-10	9.271E-11	6.330E-11	3.012E-11	1.317E-11	6.885E-12	4.178E-12
SE	2.116E-09	1.174E-09	5.306E-10	2.920E-10	1.790E-10	7.304E-11	2.254E-11	9.402E-12	6.736E-12	4.822E-12
SSE	5.603E-09	2.084E-09	8.016E-10	4.488E-10	3.276E-10	1.713E-10	5.922E-11	2.367E-11	1.263E-11	7.817E-12

ERP ELEVATED STACK RELEASES - JUL-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	1.791E-07	1.788E-07	1.751E-07	6.376E-09
A	SITE BOUNDARY	SSW	0.82	1327.	5.041E-08	5.033E-08	4.948E-08	1.714E-09
A	SITE BOUNDARY	SW	0.98	1569.	8.347E-08	8.323E-08	8.214E-08	9.231E-10
A	SITE BOUNDARY	WSW	0.93	1489.	7.206E-08	7.193E-08	7.149E-08	1.054E-09
A	SITE BOUNDARY	W	0.91	1468.	2.258E-07	2.253E-07	2.223E-07	2.440E-09
A	SITE BOUNDARY	WNW	0.94	1509.	3.023E-07	3.018E-07	2.984E-07	5.467E-09
A	SITE BOUNDARY	NW	0.81	1307.	2.129E-07	2.126E-07	2.091E-07	4.392E-09
A	SITE BOUNDARY	NNW	0.69	1106.	1.215E-07	1.214E-07	1.194E-07	5.987E-09
A	SITE BOUNDARY	N	0.67	1086.	1.590E-07	1.589E-07	1.560E-07	8.258E-09
A	SITE BOUNDARY	NNE	0.60	965.	8.348E-08	8.340E-08	8.220E-08	3.495E-09
A	SITE BOUNDARY	NE	0.62	1005.	5.538E-08	5.532E-08	5.445E-08	2.236E-09
A	SITE BOUNDARY	ENE	0.59	945.	2.469E-08	2.464E-08	2.433E-08	1.014E-09
A	SITE BOUNDARY	E	0.53	845.	2.169E-08	2.168E-08	2.146E-08	1.827E-09
A	SITE BOUNDARY	ESE	0.54	865.	1.447E-08	1.446E-08	1.431E-08	1.441E-09
A	SITE BOUNDARY	SE	0.65	1046.	2.316E-08	2.315E-08	2.290E-08	2.156E-09
A	SITE BOUNDARY	SSE	0.81	1307.	1.174E-07	1.173E-07	1.150E-07	5.609E-09
A	NEAR. RESIDENCE	SSW	1.80	2897.	4.454E-08	4.436E-08	4.352E-08	5.264E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	1.081E-07	1.077E-07	1.065E-07	8.534E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	1.268E-07	1.264E-07	1.254E-07	9.600E-10
A	NEAR. RESIDENCE	W	1.00	1609.	2.305E-07	2.300E-07	2.267E-07	2.100E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.046E-07	3.036E-07	2.977E-07	2.327E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.332E-07	2.328E-07	2.294E-07	5.317E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.665E-07	1.659E-07	1.634E-07	1.550E-09
A	NEAR. RESIDENCE	N	3.00	4328.	4.499E-08	4.479E-08	4.334E-08	5.089E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.243E-08	3.224E-08	3.133E-08	2.751E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.326E-08	2.317E-08	2.273E-08	2.858E-10
A	NEAR. RESIDENCE	E	1.80	2897.	2.121E-08	2.113E-08	2.068E-08	3.263E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.281E-08	2.272E-08	2.220E-08	2.948E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	3.883E-08	3.870E-08	3.788E-08	6.495E-10
A	NEAREST COW	NNW	3.50	5633.	1.087E-07	1.080E-07	1.060E-07	4.908E-10
A	NEAREST GARDEN	SSW	1.80	2897.	4.454E-08	4.436E-08	4.352E-08	5.264E-10
A	NEAREST GARDEN	SW	2.20	3541.	6.902E-08	6.850E-08	6.726E-08	2.846E-10
A	NEAREST GARDEN	WSW	1.30	2092.	1.268E-07	1.264E-07	1.254E-07	9.600E-10
A	NEAREST GARDEN	WNW	2.30	3702.	1.584E-07	1.576E-07	1.529E-07	9.840E-10
A	NEAREST GARDEN	NW	0.90	1448.	2.332E-07	2.328E-07	2.294E-07	5.317E-09
A	NEAREST GARDEN	N	3.00	4828.	4.499E-08	4.479E-08	4.334E-08	5.089E-10
A	NEAREST GARDEN	ENE	1.70	2736.	2.326E-08	2.317E-08	2.273E-08	2.858E-10
A	NEAREST GARDEN	E	1.80	2897.	2.121E-08	2.113E-08	2.068E-08	3.263E-10
A	NEAREST GARDEN	ESE	2.60	4184.	2.124E-08	2.115E-08	2.063E-08	2.571E-10

Atmospheric Diffusion Estimates

Elevated Releases

January-December 1996

ERP ELEVATED STACK RELEASES - JAN-DEC 1996
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.087E-08	1.201E-07	1.553E-07	1.362E-07	1.058E-07	8.152E-08	6.377E-08	5.104E-08	4.181E-08	4.498E-08	4.623E-08
SSW	4.405E-09	3.381E-08	4.704E-08	4.683E-08	4.341E-08	3.675E-08	3.044E-08	3.274E-08	3.360E-08	2.945E-08	2.615E-08
SW	1.606E-08	3.624E-08	5.576E-08	7.317E-08	9.583E-08	6.368E-08	4.533E-08	3.407E-08	2.669E-08	2.160E-08	1.792E-08
WSW	2.240E-08	2.830E-08	5.932E-08	9.891E-08	1.432E-07	8.942E-08	6.142E-08	4.510E-08	3.476E-08	2.779E-08	2.285E-08
W	3.989E-08	9.397E-08	1.746E-07	1.903E-07	1.689E-07	1.051E-07	7.207E-08	5.288E-08	4.074E-08	3.257E-08	2.678E-08
WNW	4.043E-08	8.386E-08	1.911E-07	2.726E-07	2.951E-07	1.751E-07	1.163E-07	8.633E-08	6.701E-08	5.253E-08	4.252E-08
NW	5.817E-08	9.829E-08	1.672E-07	2.511E-07	3.634E-07	2.116E-07	1.394E-07	1.015E-07	7.779E-08	6.112E-08	4.959E-08
NNW	6.597E-08	1.099E-07	1.267E-07	1.290E-07	1.435E-07	1.332E-07	1.196E-07	1.037E-07	8.993E-08	7.053E-08	5.716E-08
N	6.809E-08	1.190E-07	1.203E-07	9.440E-08	7.102E-08	5.826E-08	4.852E-08	4.021E-08	3.394E-08	2.913E-08	2.537E-08
NNE	2.765E-08	6.385E-08	7.213E-08	6.108E-08	5.000E-08	4.170E-08	3.491E-08	2.954E-08	2.533E-08	2.201E-08	1.938E-08
NE	9.960E-09	3.198E-08	3.830E-08	3.169E-08	2.487E-08	2.031E-08	1.679E-08	1.409E-08	1.202E-08	1.041E-08	9.139E-09
ENE	2.238E-09	1.128E-08	1.694E-08	1.759E-08	1.714E-08	1.500E-08	1.274E-08	1.083E-08	9.298E-09	8.078E-09	7.105E-09
E	9.303E-09	1.684E-08	2.148E-08	2.040E-08	1.838E-08	1.561E-08	1.307E-08	1.102E-08	9.419E-09	8.162E-09	7.167E-09
ESE	1.034E-08	2.790E-08	3.684E-08	3.573E-08	3.223E-08	2.709E-08	2.243E-08	1.872E-08	1.584E-08	1.360E-08	1.185E-08
SE	1.221E-08	3.556E-08	5.763E-08	6.627E-08	6.450E-08	5.350E-08	4.321E-08	3.520E-08	2.914E-08	2.454E-08	2.100E-08
SSE	3.724E-08	9.041E-08	1.194E-07	1.107E-07	9.070E-08	7.124E-08	5.623E-08	4.526E-08	3.723E-08	4.731E-08	5.297E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.033E-08	2.412E-08	1.535E-08	8.577E-09	5.807E-09	4.282E-09	3.310E-09	2.666E-09	2.218E-09	1.886E-09	1.628E-09
SSW	2.419E-08	1.756E-08	1.133E-08	6.445E-09	4.478E-09	3.329E-09	2.586E-09	2.090E-09	1.741E-09	1.482E-09	1.283E-09
SW	1.607E-08	1.042E-08	6.707E-09	3.793E-09	2.586E-09	1.915E-09	1.500E-09	1.209E-09	1.004E-09	8.522E-10	7.364E-10
WSW	1.986E-08	1.182E-08	7.951E-09	4.625E-09	3.080E-09	2.252E-09	1.747E-09	1.410E-09	1.172E-09	9.958E-10	8.613E-10
W	2.253E-08	1.214E-08	8.398E-09	5.136E-09	3.588E-09	2.636E-09	2.047E-09	1.655E-09	1.377E-09	1.172E-09	1.015E-09
WNW	3.555E-08	1.876E-08	1.222E-08	6.993E-09	4.674E-09	3.422E-09	2.657E-09	2.143E-09	1.777E-09	1.507E-09	1.300E-09
NW	4.163E-08	2.238E-08	1.485E-08	8.718E-09	5.851E-09	4.303E-09	3.391E-09	2.758E-09	2.299E-09	1.959E-09	1.698E-09
NNW	4.830E-08	2.646E-08	1.708E-08	9.747E-09	6.580E-09	4.861E-09	3.819E-09	3.116E-09	2.631E-09	2.255E-09	1.958E-09
N	2.243E-08	1.420E-08	1.178E-08	9.109E-09	7.125E-09	5.583E-09	4.367E-09	3.545E-09	2.957E-09	2.522E-09	2.188E-09
NNE	2.174E-08	2.815E-08	1.818E-08	1.038E-08	7.011E-09	5.183E-09	4.054E-09	3.297E-09	2.758E-09	2.357E-09	2.049E-09
NE	1.025E-08	1.510E-08	9.798E-09	5.632E-09	3.824E-09	2.838E-09	2.250E-09	1.844E-09	1.550E-09	1.326E-09	1.154E-09
ENE	7.686E-09	1.089E-08	7.175E-09	4.196E-09	2.875E-09	2.146E-09	1.753E-09	1.465E-09	1.229E-09	1.053E-09	9.169E-10
E	7.784E-09	1.157E-08	7.642E-09	4.485E-09	3.081E-09	2.306E-09	1.820E-09	1.492E-09	1.291E-09	1.130E-09	9.859E-10
ESE	1.224E-08	1.399E-08	9.230E-09	5.398E-09	3.696E-09	2.757E-09	2.171E-09	1.774E-09	1.490E-09	1.278E-09	1.115E-09
SE	1.822E-08	1.073E-08	7.917E-09	5.304E-09	3.760E-09	2.879E-09	2.316E-09	1.927E-09	1.605E-09	1.366E-09	1.182E-09
SSE	4.454E-08	2.366E-08	1.497E-08	8.310E-09	5.514E-09	4.020E-09	3.109E-09	2.505E-09	2.078E-09	1.764E-09	1.523E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.390E-07	1.018E-07	6.341E-08	4.566E-08	4.367E-08	2.383E-08	8.851E-09	4.300E-09	2.679E-09	1.889E-09
SSW	4.401E-08	4.121E-08	3.304E-08	3.177E-08	2.640E-08	1.627E-08	6.657E-09	3.338E-09	2.099E-09	1.485E-09
SW	5.916E-08	7.651E-08	4.572E-08	2.686E-08	1.833E-08	1.003E-08	3.904E-09	1.928E-09	1.214E-09	8.542E-10
WSW	7.002E-08	1.094E-07	6.236E-08	3.506E-08	2.321E-08	1.189E-08	4.677E-09	2.271E-09	1.415E-09	9.981E-10
W	1.637E-07	1.453E-07	7.320E-08	4.110E-08	2.692E-08	1.279E-08	5.173E-09	2.655E-09	1.661E-09	1.175E-09
WNW	2.035E-07	2.367E-07	1.200E-07	6.701E-08	4.290E-08	1.958E-08	7.123E-09	3.450E-09	2.150E-09	1.510E-09
NW	1.892E-07	2.710E-07	1.435E-07	7.820E-08	5.006E-08	2.331E-08	8.806E-09	4.351E-09	2.764E-09	1.963E-09
NNW	1.240E-07	1.357E-07	1.169E-07	8.649E-08	5.784E-08	2.714E-08	9.969E-09	4.903E-09	3.132E-09	2.256E-09
N	1.085E-07	7.054E-08	4.779E-08	3.390E-08	2.539E-08	1.495E-08	8.821E-09	5.508E-09	3.556E-09	2.527E-09
NNE	6.538E-08	4.877E-08	3.457E-08	2.527E-08	2.103E-08	2.229E-08	1.061E-08	5.219E-09	3.308E-09	2.361E-09
NE	3.396E-08	2.436E-08	1.665E-08	1.200E-08	9.927E-09	1.167E-08	5.754E-09	2.866E-09	1.848E-09	1.329E-09
ENE	1.597E-08	1.629E-08	1.258E-08	9.271E-09	7.608E-09	8.527E-09	4.271E-09	2.183E-09	1.457E-09	1.055E-09
E	1.997E-08	1.760E-08	1.293E-08	9.398E-09	7.690E-09	8.983E-09	4.563E-09	2.318E-09	1.509E-09	1.124E-09
ESE	3.436E-08	3.072E-08	2.219E-08	1.581E-08	1.251E-08	1.148E-08	5.493E-09	2.773E-09	1.779E-09	1.281E-09
SE	5.657E-08	6.000E-08	4.275E-08	2.912E-08	2.102E-08	1.114E-08	5.198E-09	2.889E-09	1.915E-09	1.369E-09
SSE	1.091E-07	8.649E-08	5.584E-08	4.337E-08	4.817E-08	2.444E-08	8.547E-09	4.054E-09	2.515E-09	1.768E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 1996
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.086E-08	1.200E-07	1.551E-07	1.360E-07	1.055E-07	8.125E-08	6.350E-08	5.078E-08	4.156E-08	4.466E-08	4.584E-08
SSW	4.402E-09	3.376E-08	4.696E-08	4.673E-08	4.327E-08	3.658E-08	3.027E-08	3.251E-08	2.916E-08	2.585E-08	
SW	1.605E-08	3.619E-08	5.566E-08	7.299E-08	9.544E-08	6.331E-08	4.500E-08	3.377E-08	2.642E-08	2.134E-08	1.768E-08
WSW	2.238E-08	2.827E-08	5.924E-08	9.873E-08	1.427E-07	8.901E-08	6.106E-08	4.478E-08	3.447E-08	2.752E-08	2.260E-08
W	3.987E-08	9.387E-08	1.744E-07	1.899E-07	1.683E-07	1.046E-07	7.161E-08	5.247E-08	4.038E-08	3.223E-08	2.647E-08
WNW	4.041E-08	8.379E-08	1.909E-07	2.722E-07	2.943E-07	1.744E-07	1.158E-07	8.583E-08	6.655E-08	5.212E-08	4.214E-08
NW	5.614E-08	9.819E-08	1.670E-07	2.507E-07	3.624E-07	2.109E-07	1.388E-07	1.009E-07	7.727E-08	6.065E-08	4.916E-08
NNW	6.595E-08	1.098E-07	1.265E-07	1.288E-07	1.432E-07	1.328E-07	1.191E-07	1.032E-07	8.935E-08	7.001E-08	5.668E-08
N	6.807E-08	1.189E-07	1.201E-07	9.425E-08	7.086E-08	5.807E-08	4.833E-08	4.001E-08	3.375E-08	2.894E-08	2.518E-08
NNE	2.763E-08	6.378E-08	7.202E-08	6.097E-08	4.986E-08	4.154E-08	3.474E-08	2.936E-08	2.515E-08	2.183E-08	1.920E-08
NE	9.954E-09	3.194E-08	3.823E-08	3.163E-08	2.479E-08	2.022E-08	1.669E-08	1.399E-08	1.192E-08	1.031E-08	9.044E-09
ENE	2.236E-09	1.126E-08	1.690E-08	1.755E-08	1.708E-08	1.493E-08	1.267E-08	1.075E-08	9.219E-09	7.999E-09	7.026E-09
E	9.291E-09	1.682E-08	2.146E-08	2.037E-08	1.833E-08	1.555E-08	1.301E-08	1.096E-08	9.353E-09	8.096E-09	7.102E-09
ESE	1.034E-08	2.789E-08	3.681E-08	3.569E-08	3.217E-08	2.701E-08	2.235E-08	1.864E-08	1.576E-08	1.352E-08	1.177E-08
SE	1.221E-08	3.555E-08	5.759E-08	6.621E-08	6.440E-08	5.337E-08	4.308E-08	3.506E-08	2.901E-08	2.441E-08	2.087E-08
SSE	3.723E-08	9.037E-08	1.193E-07	1.106E-07	9.054E-08	7.106E-08	5.606E-08	4.509E-08	3.707E-08	3.106E-08	5.262E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.995E-08	2.377E-08	1.505E-08	8.324E-09	5.579E-09	4.072E-09	3.117E-09	2.435E-09	2.048E-09	1.724E-09	1.474E-09
SSW	2.388E-08	1.718E-08	1.100E-08	6.162E-09	4.213E-09	3.082E-09	2.357E-09	1.876E-09	1.539E-09	1.290E-09	1.100E-09
SW	1.583E-08	1.017E-08	6.492E-09	3.612E-09	2.422E-09	1.764E-09	1.359E-09	1.078E-09	8.802E-10	7.353E-10	6.253E-10
WSW	1.962E-08	1.160E-08	7.751E-09	4.450E-09	2.926E-09	2.113E-09	1.618E-09	1.290E-09	1.059E-09	8.886E-10	7.592E-10
W	2.224E-08	1.189E-08	8.172E-09	4.927E-09	3.393E-09	2.458E-09	1.882E-09	1.500E-09	1.232E-09	1.033E-09	8.826E-10
WNW	3.520E-08	1.847E-08	1.197E-08	6.781E-09	4.487E-09	3.251E-09	2.498E-09	1.994E-09	1.637E-09	1.374E-09	1.174E-09
NW	4.122E-08	2.204E-08	1.454E-08	8.440E-09	5.602E-09	4.075E-09	3.175E-09	2.553E-09	2.104E-09	1.773E-09	1.521E-09
NNW	4.785E-08	2.607E-08	1.675E-08	9.463E-09	6.325E-09	4.626E-09	3.597E-09	2.905E-09	2.428E-09	2.060E-09	1.771E-09
N	2.224E-08	1.402E-08	1.158E-08	8.871E-09	6.874E-09	5.336E-09	4.137E-09	3.328E-09	2.752E-09	2.327E-09	2.001E-09
NNE	2.152E-08	2.772E-08	1.780E-08	1.006E-08	6.729E-09	4.924E-09	3.813E-09	3.069E-09	2.542E-09	2.151E-09	1.852E-09
NE	1.014E-08	1.484E-08	9.575E-09	5.442E-09	3.654E-09	2.681E-09	2.102E-09	1.705E-09	1.417E-09	1.199E-09	1.033E-09
ENE	7.591E-09	1.071E-08	7.015E-09	4.058E-09	2.750E-09	2.032E-09	1.643E-09	1.359E-09	1.128E-09	9.569E-10	8.252E-10
E	7.705E-09	1.139E-08	7.481E-09	4.344E-09	2.953E-09	2.186E-09	1.708E-09	1.385E-09	1.186E-09	1.028E-09	8.870E-10
ESE	1.215E-08	1.382E-08	9.084E-09	5.270E-09	3.580E-09	2.649E-09	2.069E-09	1.678E-09	1.399E-09	1.190E-09	1.030E-09
SE	1.810E-08	1.061E-08	7.795E-09	5.168E-09	3.626E-09	2.746E-09	2.185E-09	1.797E-09	1.481E-09	1.247E-09	1.068E-09
SSE	4.421E-08	2.340E-08	1.474E-08	8.124E-09	5.350E-09	3.871E-09	2.971E-09	2.375E-09	1.956E-09	1.647E-09	1.412E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.388E-07	1.015E-07	6.315E-08	4.537E-08	4.331E-08	2.349E-08	8.599E-09	4.092E-09	2.499E-09	1.727E-09
SSW	4.392E-08	4.107E-08	3.285E-08	3.150E-08	2.610E-08	1.592E-08	6.371E-09	3.094E-09	1.885E-09	1.293E-09
SW	5.904E-08	7.617E-08	4.539E-08	2.658E-08	1.808E-08	9.795E-09	3.723E-09	1.777E-09	1.083E-09	7.375E-10
WSW	6.991E-08	1.091E-07	6.200E-08	3.477E-08	2.296E-08	1.167E-08	4.507E-09	2.132E-09	1.295E-09	8.910E-10
W	1.634E-07	1.448E-07	7.275E-08	4.073E-08	2.661E-08	1.254E-08	4.967E-09	2.477E-09	1.507E-09	1.036E-09
WNW	2.032E-07	2.361E-07	1.194E-07	6.656E-08	4.253E-08	1.930E-08	6.915E-09	3.279E-09	2.002E-09	1.378E-09
NW	1.889E-07	2.702E-07	1.428E-07	7.768E-08	4.962E-08	2.297E-08	8.535E-09	4.122E-09	2.560E-09	1.778E-09
NNW	1.238E-07	1.354E-07	1.164E-07	8.594E-08	5.736E-08	2.677E-08	9.688E-09	4.668E-09	2.921E-09	2.062E-09
N	1.083E-07	7.037E-08	4.760E-08	3.371E-08	2.521E-08	1.476E-08	8.585E-09	5.267E-09	3.340E-09	2.332E-09
NNE	6.528E-08	4.863E-08	3.440E-08	2.509E-08	2.084E-08	2.193E-08	1.030E-08	4.961E-09	3.081E-09	2.156E-09
NE	3.390E-08	2.428E-08	1.655E-08	1.190E-08	9.824E-09	1.146E-08	5.566E-09	2.709E-09	1.709E-09	1.202E-09
ENE	1.594E-08	1.623E-08	1.250E-08	9.193E-09	7.524E-09	8.373E-09	4.134E-09	2.068E-09	1.352E-09	9.589E-10
E	1.995E-08	1.755E-08	1.287E-08	9.333E-09	7.620E-09	8.833E-09	4.423E-09	2.199E-09	1.401E-09	1.022E-09
ESE	3.433E-08	3.066E-08	2.211E-08	1.573E-08	1.243E-08	1.134E-08	5.366E-09	2.665E-09	1.683E-09	1.193E-09
SE	5.652E-08	5.990E-08	4.262E-08	2.899E-08	2.089E-08	1.102E-08	5.066E-09	2.756E-09	1.787E-09	1.250E-09
SSE	1.090E-07	8.633E-08	5.567E-08	4.316E-08	4.786E-08	2.418E-08	8.362E-09	3.905E-09	2.386E-09	1.651E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 1996
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.087E-08	1.190E-07	1.521E-07	1.332E-07	1.031E-07	7.900E-08	6.139E-08	4.880E-08	3.972E-08	4.268E-08	4.383E-08
SSW	4.405E-09	3.350E-08	4.618E-08	4.602E-08	4.256E-08	3.582E-08	2.949E-08	3.162E-08	3.239E-08	2.827E-08	2.503E-08
SW	1.606E-08	3.590E-08	5.479E-08	7.223E-08	9.428E-08	6.211E-08	4.390E-08	3.279E-08	2.554E-08	2.056E-08	1.699E-08
WSW	2.239E-08	2.804E-08	5.853E-08	9.800E-08	1.410E-07	8.728E-08	5.953E-08	4.345E-08	3.332E-08	2.652E-08	2.172E-08
W	3.989E-08	9.250E-08	1.722E-07	1.870E-07	1.652E-07	1.021E-07	6.965E-08	5.088E-08	3.905E-08	3.111E-08	2.550E-08
WNW	4.042E-08	8.316E-08	1.893E-07	2.692E-07	2.891E-07	1.698E-07	1.119E-07	8.256E-08	6.375E-08	4.966E-08	3.995E-08
NW	5.816E-08	9.738E-08	1.645E-07	2.479E-07	3.578E-07	2.067E-07	1.353E-07	9.795E-08	7.481E-08	5.847E-08	4.717E-08
NNW	6.597E-08	1.089E-07	1.243E-07	1.269E-07	1.411E-07	1.305E-07	1.169E-07	1.012E-07	8.760E-08	6.838E-08	5.512E-08
N	6.809E-08	1.179E-07	1.177E-07	9.208E-08	6.915E-08	5.659E-08	4.699E-08	3.881E-08	3.265E-08	2.794E-08	2.427E-08
NNE	2.764E-08	6.326E-08	7.063E-08	5.969E-08	4.879E-08	4.058E-08	3.386E-08	2.855E-08	2.440E-08	2.115E-08	1.856E-08
NE	9.958E-09	3.168E-08	3.747E-08	3.091E-08	2.421E-08	1.971E-08	1.623E-08	1.357E-08	1.153E-08	9.954E-09	8.716E-09
ENE	2.237E-09	1.118E-08	1.663E-08	1.730E-08	1.682E-08	1.464E-08	1.237E-08	1.047E-08	8.943E-09	7.738E-09	6.781E-09
E	9.299E-09	1.669E-08	2.107E-08	2.001E-08	1.799E-08	1.521E-08	1.268E-08	1.064E-08	9.052E-09	7.814E-09	6.838E-09
ESE	1.034E-08	2.765E-08	3.617E-08	3.510E-08	3.160E-08	2.643E-08	2.177E-08	1.807E-08	1.522E-08	1.302E-08	1.130E-08
SE	1.221E-08	3.525E-08	5.683E-08	6.553E-08	6.350E-08	5.227E-08	4.189E-08	3.387E-08	2.784E-08	2.330E-08	1.981E-08
SSE	3.723E-08	8.960E-08	1.172E-07	1.086E-07	8.868E-08	6.923E-08	5.428E-08	4.340E-08	3.548E-08	4.518E-08	5.068E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.808E-08	2.226E-08	1.372E-08	7.210E-09	4.578E-09	3.1[illegible]E-09	2.361E-09	1.825E-09	1.465E-09	1.207E-09	1.013E-09
SSW	2.311E-08	1.650E-08	1.029E-08	5.467E-09	3.531E-09	2.510E-09	1.877E-09	1.465E-09	1.181E-09	9.752E-10	8.206E-10
SW	1.519E-08	9.670E-09	6.016E-09	3.185E-09	2.0[illegible]E-09	1.408E-09	1.057E-09	8.217E-10	6.593E-10	5.422E-10	4.547E-10
WSW	1.883E-08	1.094E-08	7.126E-09	3.917E-09	2.489E-09	1.748E-09	1.307E-09	1.021E-09	8.231E-10	6.800E-10	5.727E-10
W	2.139E-08	1.138E-08	7.772E-09	4.473E-09	2.928E-09	2.065E-09	1.546E-09	1.209E-09	9.759E-10	8.070E-10	6.802E-10
WNW	3.319E-08	1.693E-08	1.067E-08	5.720E-09	3.561E-09	2.465E-09	1.836E-09	1.429E-09	1.147E-09	9.429E-10	7.907E-10
NW	3.937E-08	2.049E-08	1.314E-08	7.221E-09	4.546E-09	3.167E-09	2.391E-09	1.877E-09	1.515E-09	1.252E-09	1.055E-09
NNW	4.632E-08	2.456E-08	1.531E-08	8.131E-09	5.061E-09	3.490E-09	2.585E-09	2.010E-09	1.634E-09	1.356E-09	1.143E-09
N	2.140E-08	1.341E-08	1.111E-08	8.574E-09	6.539E-09	4.871E-09	3.690E-09	2.911E-09	2.365E-09	1.968E-09	1.669E-09
NNE	2.090E-08	2.704E-08	1.686E-08	9.038E-09	5.743E-09	4.032E-09	3.014E-09	2.353E-09	1.896E-09	1.566E-09	1.318E-09
NE	9.814E-09	1.451E-08	9.092E-09	4.899E-09	3.117E-09	2.190E-09	1.661E-09	1.317E-09	1.073E-09	8.926E-10	7.562E-10
ENE	7.346E-09	1.047E-08	6.670E-09	3.634E-09	2.296E-09	1.600E-09	1.231E-09	9.809E-10	7.942E-10	6.585E-10	5.563E-10
E	7.443E-09	1.115E-08	7.115E-09	3.889E-09	2.461E-09	1.718E-09	1.277E-09	9.904E-10	8.144E-10	6.824E-10	5.744E-10
ESE	1.167E-08	1.340E-08	8.558E-09	4.679E-09	2.967E-09	2.074E-09	1.542E-09	1.197E-09	9.589E-10	7.871E-10	6.585E-10
SE	1.709E-08	9.841E-09	7.163E-09	4.718E-09	3.294E-09	2.493E-09	1.987E-09	1.637E-09	1.334E-09	1.114E-09	9.470E-10
SSE	4.234E-08	2.176E-08	1.328E-08	6.932E-09	4.349E-09	3.022E-09	2.241E-09	1.738E-09	1.393E-09	1.144E-09	9.587E-10

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

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	1.364E-07	9.908E-08	6.105E-08	4.344E-08	4.136E-08	2.198E-08	7.487E-09	3.230E-09	1.841E-09	1.211E-09
SSW	4.329E-08	4.033E-08	3.203E-08	3.060E-08	2.528E-08	1.521E-08	5.678E-09	2.529E-09	1.475E-09	9.790E-10
SW	5.834E-08	7.508E-08	4.431E-08	2.571E-08	1.738E-08	9.273E-09	3.297E-09	1.431E-09	8.272E-10	5.445E-10
WSW	6.930E-08	1.076E-07	6.050E-08	3.363E-08	2.207E-08	1.100E-08	3.995E-09	1.769E-09	1.027E-09	6.826E-10
W	1.611E-07	1.420E-07	7.080E-08	3.941E-08	2.564E-08	1.200E-08	4.519E-09	2.087E-09	1.217E-09	8.101E-10
WNW	2.012E-07	2.316E-07	1.156E-07	6.376E-08	4.032E-08	1.776E-08	5.861E-09	2.506E-09	1.438E-09	9.469E-10
NW	1.867E-07	2.662E-07	1.394E-07	7.520E-08	4.763E-08	2.142E-08	7.349E-09	3.224E-09	1.886E-09	1.257E-09
NNW	1.220E-07	1.332E-07	1.143E-07	8.417E-08	5.579E-08	2.529E-08	8.363E-09	3.547E-09	2.031E-09	1.360E-09
N	1.063E-07	6.866E-08	4.628E-08	3.262E-08	2.429E-08	1.416E-08	8.233E-09	4.843E-09	2.926E-09	1.975E-09
NNE	6.413E-08	4.756E-08	3.353E-08	2.435E-08	2.019E-08	2.115E-08	9.312E-09	4.081E-09	2.368E-09	1.572E-09
NE	3.327E-08	2.370E-08	1.609E-08	1.151E-08	9.489E-09	1.106E-08	5.039E-09	2.226E-09	1.323E-09	8.956E-10
ENE	1.572E-08	1.596E-08	1.222E-08	8.919E-09	7.274E-09	8.088E-09	3.714E-09	1.638E-09	9.811E-10	6.608E-10
E	1.962E-08	1.720E-08	1.254E-08	9.034E-09	7.351E-09	8.531E-09	3.971E-09	1.740E-09	1.005E-09	6.815E-10
ESE	3.380E-08	3.008E-08	2.154E-08	1.520E-08	1.195E-08	1.086E-08	4.780E-09	2.099E-09	1.205E-09	7.904E-10
SE	5.590E-08	5.896E-08	4.145E-08	2.783E-08	1.984E-08	1.026E-08	4.628E-09	2.504E-09	1.622E-09	1.117E-09
SSE	1.072E-07	8.445E-08	5.392E-08	4.144E-08	4.596E-08	2.256E-08	7.194E-09	3.064E-09	1.750E-09	1.149E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.037E-08	8.269E-09	6.788E-09	4.549E-09	2.166E-09	1.316E-09	8.852E-10	6.341E-10	4.742E-10	3.807E-10	3.418E-10
SSW	1.913E-09	1.709E-09	1.679E-09	1.289E-09	6.830E-10	4.333E-10	2.980E-10	2.160E-10	1.991E-10	1.507E-10	1.180E-10
SW	1.954E-09	1.589E-09	1.350E-09	9.319E-10	7.222E-10	3.921E-10	2.435E-10	1.657E-10	1.200E-10	9.091E-11	7.125E-11
WSW	2.171E-09	1.806E-09	1.594E-09	1.964E-09	9.674E-10	5.201E-10	3.203E-10	2.167E-10	1.564E-10	1.182E-10	9.250E-11
W	2.579E-09	4.896E-09	3.637E-09	2.157E-09	9.636E-10	5.143E-10	3.157E-10	2.133E-10	1.538E-10	1.163E-10	9.122E-11
WNW	3.794E-09	3.222E-09	6.186E-09	4.159E-09	2.403E-09	1.209E-09	7.164E-10	4.734E-10	3.460E-10	2.618E-10	2.082E-10
NW	7.144E-09	5.590E-09	4.424E-09	4.786E-09	2.710E-09	1.350E-09	7.992E-10	5.308E-10	3.832E-10	2.955E-10	2.400E-10
NNW	8.311E-09	6.438E-09	4.995E-09	3.176E-09	2.235E-09	1.194E-09	7.362E-10	5.763E-10	4.192E-10	3.258E-10	2.671E-10
N	1.119E-08	8.504E-09	6.344E-09	3.873E-09	1.685E-09	9.814E-10	6.450E-10	4.562E-10	3.390E-10	2.610E-10	2.066E-10
NNE	4.305E-09	3.391E-09	2.719E-09	1.784E-09	8.332E-10	5.020E-10	3.361E-10	2.402E-10	1.794E-10	1.385E-10	1.096E-10
NE	2.078E-09	1.613E-09	1.256E-09	8.009E-10	3.643E-10	2.168E-10	1.442E-10	1.027E-10	7.656E-11	5.904E-11	4.674E-11
ENE	7.756E-10	6.728E-10	6.338E-10	4.732E-10	2.457E-10	1.547E-10	1.060E-10	7.668E-11	5.763E-11	4.459E-11	3.530E-11
E	1.737E-09	1.372E-09	1.106E-09	7.289E-10	3.420E-10	2.064E-10	1.384E-10	9.894E-11	7.392E-11	5.706E-11	4.517E-11
ESE	3.415E-09	2.756E-09	2.311E-09	1.577E-09	7.630E-10	4.668E-10	3.151E-10	2.262E-10	1.693E-10	1.308E-10	1.035E-10
SE	4.685E-09	4.227E-09	4.209E-09	3.260E-09	1.737E-09	1.104E-09	7.604E-10	5.514E-10	4.150E-10	3.213E-10	2.544E-10
SSE	1.038E-08	8.352E-09	6.964E-09	4.731E-09	2.280E-09	1.392E-09	9.391E-10	6.737E-10	5.042E-10	4.648E-10	4.033E-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	2.751E-10	1.512E-10	9.636E-11	5.282E-11	3.348E-11	2.701E-11	1.937E-11	1.455E-11	1.145E-11	9.128E-12	7.453E-12
SSW	9.587E-11	6.431E-11	4.340E-11	2.493E-11	1.658E-11	1.143E-11	8.197E-12	6.161E-12	4.854E-12	3.878E-12	3.165E-12
SW	5.848E-11	3.832E-11	2.575E-11	1.478E-11	9.432E-12	6.771E-12	4.827E-12	3.726E-12	2.897E-12	2.314E-12	1.889E-12
WSW	7.509E-11	5.025E-11	3.405E-11	2.186E-11	1.323E-11	8.876E-12	6.433E-12	4.851E-12	3.756E-12	3.000E-12	2.449E-12
W	7.360E-11	3.368E-11	3.447E-11	2.172E-11	1.422E-11	9.583E-12	6.867E-12	5.156E-12	4.009E-12	3.203E-12	2.614E-12
WNW	1.743E-10	9.351E-11	6.282E-11	3.601E-11	2.351E-11	1.681E-11	1.204E-11	9.040E-12	7.061E-12	5.640E-12	4.604E-12
NW	2.042E-10	1.172E-10	8.170E-11	5.137E-11	3.148E-11	2.116E-11	1.504E-11	1.130E-11	8.811E-12	7.039E-12	5.745E-12
NNW	2.293E-10	1.356E-10	9.599E-11	5.769E-11	3.719E-11	2.512E-11	1.788E-11	1.312E-11	1.010E-11	8.066E-12	6.584E-12
N	1.672E-10	8.014E-11	4.952E-11	2.690E-11	5.592E-11	3.384E-11	2.415E-11	1.814E-11	1.411E-11	1.127E-11	9.203E-12
NNE	8.857E-11	1.430E-10	8.967E-11	4.728E-11	2.904E-11	1.947E-11	1.392E-11	1.042E-11	8.077E-12	6.440E-12	5.248E-12
NE	3.778E-11	6.094E-11	3.888E-11	2.090E-11	1.293E-11	8.672E-12	6.066E-12	4.516E-12	3.541E-12	2.828E-12	2.309E-12
ENE	2.849E-11	3.708E-11	2.765E-11	1.721E-11	1.107E-11	7.363E-12	5.188E-12	3.422E-12	2.663E-12	2.130E-12	1.741E-12
E	3.650E-11	4.658E-11	3.479E-11	2.172E-11	1.404E-11	9.379E-12	6.638E-12	4.903E-12	3.756E-12	2.711E-12	2.208E-12
ESE	8.363E-11	8.744E-11	6.303E-11	3.831E-11	2.462E-11	1.650E-11	1.173E-11	8.711E-12	6.703E-12	5.322E-12	4.322E-12
SE	2.052E-10	9.755E-11	5.972E-11	3.174E-11	1.958E-11	1.354E-11	1.008E-11	1.145E-11	8.972E-12	7.246E-12	5.984E-12
SSE	3.298E-10	2.208E-10	1.351E-10	6.919E-11	4.208E-11	2.821E-11	2.020E-11	1.516E-11	1.178E-11	9.406E-12	7.675E-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	6.122E-09	2.318E-09	8.997E-10	4.843E-10	3.286E-10	1.543E-10	5.390E-11	2.568E-11	1.475E-11	9.197E-12
SSW	1.513E-09	7.068E-10	3.013E-10	1.855E-10	1.195E-10	6.203E-11	2.533E-11	1.151E-11	6.295E-12	3.903E-12
SW	1.217E-09	6.221E-10	2.520E-10	1.220E-10	7.235E-11	3.721E-11	1.484E-11	6.703E-12	3.725E-12	2.330E-12
WSW	1.806E-09	9.901E-10	3.322E-10	1.591E-10	9.366E-11	4.857E-11	2.073E-11	9.061E-12	4.879E-12	3.020E-12
W	3.259E-09	1.029E-09	3.277E-10	1.565E-10	9.213E-11	4.290E-11	2.122E-11	9.733E-12	5.208E-12	3.224E-12
WNW	4.627E-09	2.263E-09	7.506E-10	3.503E-10	2.115E-10	9.783E-11	3.641E-11	1.669E-11	9.142E-12	5.677E-12
NW	4.844E-09	2.567E-09	8.387E-10	3.919E-10	2.432E-10	1.207E-10	4.927E-11	2.147E-11	1.142E-11	7.085E-12
NNW	4.507E-09	1.981E-09	7.942E-10	4.285E-10	2.705E-10	1.388E-10	5.709E-11	2.544E-11	1.333E-11	8.118E-12
N	5.725E-09	1.858E-09	6.592E-10	3.428E-10	2.081E-10	8.587E-11	4.483E-11	3.585E-11	1.832E-11	1.135E-11
NNE	2.453E-09	8.972E-10	3.420E-10	1.812E-10	1.104E-10	1.072E-10	4.860E-11	1.980E-11	1.053E-11	6.483E-12
NE	1.133E-09	3.958E-10	1.470E-10	7.735E-11	4.707E-11	4.599E-11	2.136E-11	8.766E-12	4.587E-12	2.847E-12
ENE	5.711E-10	2.558E-10	1.073E-10	5.810E-11	3.553E-11	3.098E-11	1.680E-11	7.481E-12	3.637E-12	2.144E-12
E	9.974E-10	3.677E-10	1.408E-10	7.465E-11	4.548E-11	3.910E-11	2.121E-11	9.524E-12	4.962E-12	2.834E-12
ESE	2.084E-09	8.123E-10	3.200E-10	1.709E-10	1.042E-10	7.574E-11	3.772E-11	1.676E-11	8.809E-12	5.361E-12
SE	3.791E-09	1.794E-09	7.685E-10	4.183E-10	2.560E-10	1.047E-10	3.256E-11	1.377E-11	1.012E-11	7.290E-12
SSE	6.280E-09	2.430E-09	9.538E-10	5.376E-10	3.943E-10	2.069E-10	7.179E-11	2.871E-11	1.531E-11	9.468E-12

ERP ELEVATED STACK RELEASES - JAN-DEC 1996
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	1.517E-07	1.515E-07	1.485E-07	6.274E-09
A	SITE BOUNDARY	SSW	0.82	1327.	4.702E-08	4.694E-08	4.615E-08	1.571E-09
A	SITE BOUNDARY	SW	0.98	1569.	7.128E-08	7.111E-08	7.033E-08	9.733E-10
A	SITE BOUNDARY	WSW	0.93	1489.	8.707E-08	8.692E-08	8.625E-08	1.657E-09
A	SITE BOUNDARY	W	0.91	1468.	1.883E-07	1.879E-07	1.852E-07	2.542E-09
A	SITE BOUNDARY	WNW	0.94	1509.	2.569E-07	2.565E-07	2.539E-07	4.686E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.851E-07	1.849E-07	1.824E-07	3.967E-09
A	SITE BOUNDARY	NNW	0.69	1106.	1.207E-07	1.206E-07	1.186E-07	5.272E-09
A	SITE BOUNDARY	N	0.67	1096.	1.207E-07	1.206E-07	1.184E-07	6.864E-09
A	SITE BOUNDARY	NNE	0.60	965.	6.833E-08	6.825E-08	6.730E-08	3.064E-09
A	SITE BOUNDARY	NE	0.62	1005.	3.638E-08	3.633E-08	3.577E-08	1.406E-09
A	SITE BOUNDARY	ENE	0.59	945.	1.341E-08	1.339E-08	1.323E-08	6.486E-10
A	SITE BOUNDARY	E	0.53	845.	1.737E-08	1.736E-08	1.719E-08	1.336E-09
A	SITE BOUNDARY	ESE	0.54	865.	2.938E-08	2.937E-08	2.905E-08	2.663E-09
A	SITE BOUNDARY	SE	0.65	1046.	4.723E-08	4.721E-08	4.658E-08	4.151E-09
A	SITE BOUNDARY	SSE	0.81	1307.	1.175E-07	1.174E-07	1.153E-07	6.335E-09
A	NEAR. RESIDENCE	SSW	1.80	2897.	3.949E-08	3.934E-08	3.860E-08	5.054E-10
A	NEAR. RESIDENCE	SW	1.30	2092.	9.122E-08	9.091E-08	8.995E-08	9.689E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	1.337E-07	1.333E-07	1.320E-07	1.300E-09
A	NEAR. RESIDENCE	W	1.00	1609.	1.903E-07	1.899E-07	1.870E-07	2.157E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.628E-07	2.621E-07	2.569E-07	2.059E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.141E-07	2.138E-07	2.112E-07	5.500E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.358E-07	1.353E-07	1.331E-07	1.337E-09
A	NEAR. RESIDENCE	N	3.00	4828.	4.021E-08	4.001E-08	3.881E-08	4.562E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.261E-08	3.243E-08	3.150E-08	2.920E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.636E-08	1.630E-08	1.603E-08	1.991E-10
A	NEAR. RESIDENCE	E	1.80	2897.	1.673E-08	1.667E-08	1.633E-08	2.411E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.329E-08	2.321E-08	2.262E-08	3.389E-10
A	NEAR. RESIDENCE	SE	2.20	3541.	4.913E-08	4.900E-08	4.785E-08	9.439E-10
A	NEAREST COW	NNW	3.50	5633.	8.991E-08	8.934E-08	8.759E-08	4.192E-10
A	NEAREST GARDEN	SSW	1.80	2897.	3.949E-08	3.934E-08	3.860E-08	5.054E-10
A	NEAREST GARDEN	SW	2.20	3541.	5.517E-08	5.482E-08	5.365E-08	3.196E-10
A	NEAREST GARDEN	WSW	1.30	2092.	1.337E-07	1.333E-07	1.320E-07	1.300E-09
A	NEAREST GARDEN	WNW	2.30	3702.	1.355E-07	1.349E-07	1.308E-07	8.698E-10
A	NEAREST GARDEN	NW	0.90	1448.	2.141E-07	2.138E-07	2.112E-07	5.500E-09
A	NEAREST GARDEN	N	3.00	4828.	4.021E-08	4.001E-08	3.881E-08	4.562E-10
A	NEAREST GARDEN	ENE	1.70	2736.	1.636E-08	1.630E-08	1.603E-08	1.991E-10
A	NEAREST GARDEN	E	1.80	2897.	1.673E-08	1.667E-08	1.633E-08	2.411E-10
A	NEAREST GARDEN	ESE	2.60	4184.	2.162E-08	2.153E-08	2.096E-08	2.937E-10

ATMOSPHERIC DIFFUSION MODEL

Onsite meteorological data from January 1 through December 31, 1996, 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

$$\Sigma_{zk} = (\sigma_{zk}^2 + 0.5\, D_z^2/\pi)^{\frac{1}{2}} \leq \sqrt{3}\, \sigma_{zk} \qquad \text{(Eq. 2)}$$

where I = index identifying direction sector;

j = index identifying wind speed class;

k = index identifying atmospheric stability class;

$\frac{\chi}{Q}$ = 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

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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 C37).

TABLE 1. Doses to Maximum Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 1996, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		2.48 E-03	8.53 E-04	1.02 E-03	0.00 E+00	2.26 E-04	7.14 E-05	3.61 E-03
Shoreline	2.23 E-05	1.90 E-05	1.90 E-05	1.90 E-05	1.90 E-05	1.90 E-05	1.90 E-05	1.90 E-05
Totals	**2.23 E-05**	**2.50 E-03**	**8.72 E-04**	**1.04 E-03**	**1.90 E-05**	**2.45 E-04**	**9.04 E-05**	**3.63 E-03**
2nd Quarter								
Eating Fish		8.79 E-04	6.12 E-04	4.28 E-04	0.00 E+00	2.05 E-04	6.64 E-05	2.35 E-04
Drinking Water		3.13 E-02	9.04 E-04	2.36 E-03	0.00 E+00	2.27 E-04	7.24 E-05	9.12 E-03
Shoreline	1.87 E-05	1.59 E-05	1.59 E-05	1.59 E-05	1.59 E-05	1.59 E-05	1.59 E-05	1.59 E-05
Totals	**1.87 E-05**	**3.22 E-02**	**1.53 E-03**	**2.80 E-03**	**1.59 E-05**	**4.48 E-04**	**1.55 E-04**	**9.37 E-03**
Totals for 1st & 2nd Quarters	**4.10 E-05**	**3.47 E-02**	**2.40 E-03**	**3.84 E-03**	**3.49 E-05**	**6.93 E-04**	**2.45 E-04**	**1.30 E-02**

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 1996, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		1.06 E-03	7.48 E-04	5.27 E-04	1.41 E-08	2.53 E-04	8.31 E-05	1.66 E-04
Drinking Water		3.04 E-02	7.57 E-04	2.83 E-03	2.39 E-07	2.27 E-04	7.43 E-05	6.66 E-03
Shoreline	8.46 E-06	7.20 E-06	7.20 E-06	7.20 E-06	7.20 E-06	7.20 E-06	7.20 E-06	7.20 E-06
Totals	**8.46 E-06**	**3.15 E-02**	**1.51 E-03**	**3.36 E-03**	**7.45 E-06**	**4.87 E-04**	**1.65 E-04**	**6.83 E-03**
4th Quarter								
Eating Fish		8.69 E-04	1.00 E-03	6.70 E-04	2.75 E-09	3.39 E-04	1.09 E-04	2.36 E-04
Drinking Water		1.61 E-02	1.90 E-03	3.20 E-03	7.69 E-08	5.17 E-04	1.62 E-04	8.88 E-03
Shoreline	3.35 E-05	2.85 E-05	2.85 E-05	2.85 E-05	2.85 E-05	2.85 E-05	2.85 E-05	2.85 E-05
Totals	**3.35 E-05**	**1.70 E-02**	**2.93 E-03**	**3.90 E-03**	**2.86 E-05**	**8.85 E-04**	**3.00 E-04**	**9.14 E-03**
Totals for 3rd & 4th Quarters	**4.20 E-05**	**4.85 E-02**	**4.44 E-03**	**7.26 E-03**	**3.61 E-05**	**1.37 E-03**	**4.65 E-04**	**1.60 E-02**

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 1996, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	2.23 E-05	2.50 E-03	8.72 E-04	1.04 E-03	1.90 E-05	2.45 E-04	9.04 E-05	3.63 E-03
2nd Quarter	1.87 E-05	3.22 E-02	1.53 E-03	2.80 E-03	1.59 E-05	4.48 E-04	1.55 E-04	9.37 E-03
3rd Quarter	8.46 E-06	3.15 E-02	1.51 E-03	3.36 E-03	7.45 E-06	4.87 E-04	1.65 E-04	6.83 E-03
4th Quarter	3.35 E-05	1.70 E-02	2.93 E-03	3.90 E-03	2.86 E-05	8.85 E-04	3.00 E-04	9.14 E-03
Totals for 1996	**8.30 E-05**	**8.32 E-02**	**6.84 E-03**	**1.11 E-02**	**7.10 E-05**	**2.07 E-03**	**7.10 E-04**	**2.90 E-02**

TABLE 4. Doses to Population Withing a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 1996, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		3.22 E-03	1.04 E 03	1.14 E-03	0.00 E+00	2.73 E-04	9.13 E-05	3.32 E-03
Shoreline	1.18 E-03	1.00 E-03	1.00 E-03	1.00 E-03	1.00 E-03	1.00 E-03	1.00 E-03	1.00 E-03
Totals	**1.18 E-03**	**4.22 E-03**	**2.04 E-03**	**2.14 E-03**	**1.00 E-03**	**1.27 E-03**	**1.09 E-03**	**4.32 E-03**
2nd Quarter								
Eating Fish		5.60 E-05	4.00 E-05	2.32 E-05	0.00 E+00	1.33 E-05	4.46 E-06	1.20 E-05
Drinking Water		2.77 E-02	7.02 E-04	1.84 E-03	0.00 E+00	1.76 E-04	5.88 E-05	5.44 E-03
Shoreline	9.88 E-04	8.40 E-04	8.40 E-04	8.40 E-04	8.40 E-04	8.40 E-04	8.40 E-04	8.40 E-04
Swimming		1.81 E-06	1.81 E-06	1.81 E-06	1.81 E-06	1.81 E-06	1.81 E-06	1.81 E-06
Boating		2.01 E-05	2.01 E-05	2.01 E-05	2.01 E-05	2.01 E-05	2.01 E-05	2.01 E-05
Totals	**9.88 E-04**	**2.86 E-02**	**1.60 E-03**	**2.73 E-03**	**8.62 E-04**	**1.05 E-03**	**9.26 E-04**	**6.31 E-03**
Totals for 1st & 2nd Quarters	**2.17 E-03**	**3.28 E-02**	**3.64 E-03**	**4.87 E-03**	**1.86 E-03**	**2.32 E-03**	**2.02 E-03**	**1.06 E-02**

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 Withing a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, July-December 1996, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		6.82 E-05	4.90 E-05	2.86 E-05	1.97 E-17	1.65 E-05	5.59 E-06	8.20 E-06
Drinking Water		3.12 E-02	7.02 E-04	2.53 E-03	8.43 E-08	2.09 E-04	7.14 E-05	4.69 E-03
Shoreline	4.48 E-04	3.81 E-04	3.81 E-04	3.81 E-04	3.81 E-04	3.81 E-04	3.81 E-04	3.81 E-04
Swimming		2.69 E-06	2.69 E-06	2.69 E-06	2.69 E-06	2.69 E-06	2.69 E-06	2.69 E-06
Boating		9.86 E-06	9.86 E-06	9.86 E-06	9.86 E-06	9.86 E-06	9.86 E-06	9.86 E-06
Totals	**4.48 E-04**	**3.17 E-02**	**1.14 E-03**	**2.95 E-03**	**3.94 E-04**	**6.19 E-04**	**4.71 E-04**	**5.09 E-03**
4th Quarter								
Eating Fish		5.93 E-05	6.56 E-05	3.63 E-05	3.84 E-18	2.20 E-05	7.36 E-06	1.25 E-05
Drinking Water		1.48 E-02	1.61 E-03	2.52 E-03	2.48 E-08	4.35 E-04	1.43 E-04	5.68 E-03
Shoreline	1.77 E-03	1.51 E-03	1.51 E-03	1.51 E-03	1.51 E-03	1.51 E-03	1.51 E-03	1.51 E-03
Boating		2.35 E-05	2.35 E-05	2.35 E-05	2.35 E-05	2.35 E-05	2.35 E-05	2.35 E-05
Totals	**1.77 E-03**	**1.64 E-02**	**3.21 E-03**	**4.09 E-03**	**1.53 E-03**	**1.99 E-03**	**1.68 E-03**	**7.23 E-03**
Totals for 3rd & 4th Quarters	**2.22 E-03**	**4.81 E-02**	**4.35 E-03**	**7.04 E-03**	**1.92 E-03**	**2.61 E-03**	**2.15 E-03**	**1.23 E-02**

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 1996, Cooper Nuclear Station

Period and Pathway	Dose to Population, man-rem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	1.18 E-03	4.22 E-03	2.04 E-03	2.14 E-03	1.00 E-03	1.27 E-03	1.09 E-03	4.32 E-03
2nd Quarter	9.88 E-04	2.86 E-02	1.60 E-03	2.73 E-03	8.62 E-04	1.05 E-03	9.26 E-04	6.31 E-03
3rd Quarter	4.48 E-04	3.17 E-02	1.14 E-03	2.95 E-03	3.94 E-04	[illegible]9 E-04	4.71 E-04	5.09 E-03
4th Quarter	1.77 E-03	1.64 E-02	3.21 E-03	4.09 E-03	1.53 E-03	1.99 E-03	[illegible]68 E-03	7.23 E-03
Totals for 1996	**4.39 E-03**	**8.09 E-02**	**7.99 E-03**	**1.19 E-02**	**3.79 E-03**	**4.93 E-03**	**4.17 E-03**	**2.30 E-02**

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. In addition, 0 to 50 mile distributions of gamma and beta air doses are presented in Tables 15 through 21.

Because of differences in the amount of valid meteorological data recovered, dose contributions from the quarterly periods of 1996 cannot be summed to provide semiannual doses.

Assumptions and data used for input to the GASPAR code are described in a separate section of this appendix (see page C37).

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 1996

COOPER NUCLEAR STATION JANUARY-MARCH 1996
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.35E-05	9.36E-06	1.51E-05	1.91E-05	2.85E-05	4.31E-03	6.03E-06	1.39E-05
TEEN	1.69E-05	9.92E-06	2.05E-05	2.64E-05	4.11E-05	5.96E-03	6.03E-06	1.39E-05
CHILD	2.50E-05	8.92E-06	3.93E-05	3.95E-05	6.11E-05	1.11E-02	6.03E-06	1.39E-05
INFANT	3.70E-05	8.47E-06	6.60E-05	7.66E-05	8.84E-05	2.32E-02	6.03E-06	1.39E-05

COOPER NUCLEAR STATION JANUARY-MARCH 1996
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.99E-05	1.77E-05	2.08E-05	2.28E-05	2.77E-05	2.28E-03	1.61E-05	3.79E-05
TEEN	2.17E-05	1.80E-05	2.36E-05	2.66E-05	3.43E-05	3.14E-03	1.61E-05	3.79E-05
CHILD	2.60E-05	1.75E-05	3.35E-05	3.36E-05	4.50E-05	5.87E-03	1.61E-05	3.79E-05
INFANT	3.23E-05	1.73E-05	4.76E-05	5.32E-05	5.95E-05	1.23E-02	1.61E-05	3.79E-05

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 1996 (CONTINUED)

COOPER NUCLEAR STATION JANUARY-MARCH 199
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.56E-06	2.45E-06	2.61E-06	2.71E-06	2.96E-06	1.17E-04	2.38E-06	4.80E-06
TEEN	2.65E-06	2.47E-06	2.75E-06	2.90E-06	3.29E-06	1.61E-04	2.38E-06	4.80E-06
CHILD	2.86E-06	2.44E-06	3.24E-06	3.25E-06	3.81E-06	2.95E-04	2.38E-06	4.80E-06
INFANT	3.17E-06	2.43E-06	3.93E-06	4.21E-06	4.51E-06	6.08E-04	2.38E-06	4.80E-06

COOPER NUCLEAR STATION JANUARY-MARCH 1996
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 0.99 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.99E-05	1.77E-05	2.08E-05	2.28E-05	2.77E-05	2.28E-03	1.61E-05	3.79E-05
TEEN	2.17E-05	1.80E-05	2.36E-05	2.66E-05	3.43E-05	3.14E-03	1.61E-05	3.79E-05
CHILD	2.60E-05	1.75E-05	3.35E-05	3.36E-05	4.50E-05	5.87E-03	1.61E-05	3.79E-05
INFANT	3.23E-05	1.73E-05	4.76E-05	5.32E-05	5.95E-05	1.23E-02	1.61E-05	3.79E-05

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 1996

COOPER NUCLEAR STATION APRIL-JUNE 1996
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.67E-02	1.66E-02	1.71E-02	1.69E-02	1.72E-02	1.70E-01	1.67E-02	4.08E-02
TEEN	1.68E-02	1.66E-02	1.75E-02	1.72E-02	1.77E-02	2.27E-01	1.67E-02	4.08E-02
CHILD	1.71E-02	1.66E-02	1.90E-02	1.76E-02	1.84E-02	4.11E-01	1.67E-02	4.08E-02
INFANT	1.75E-02	1.65E-02	1.88E-02	1.90E-02	1.94E-02	8.45E-01	1.67E-02	4.08E-02

COOPER NUCLEAR STATION APRIL-JUNE 1996
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.37E-02	2.37E-02	2.41E-02	2.38E-02	2.39E-02	8.20E-02	2.39E-02	5.64E-02
TEEN	2.38E-02	2.37E-02	2.43E-02	2.39E-02	2.41E-02	1.05E-01	2.39E-02	5.64E-02
CHILD	2.39E-02	2.37E-02	2.53E-02	2.41E-02	2.44E-02	1.76E-01	2.39E-02	5.64E-02
INFANT	2.40E-02	2.37E-02	2.46E-02	2.46E-02	2.48E-02	3.55E-01	2.39E-02	5.64E-02

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 1996 (CONTINUED)

COOPER NUCLEAR STATION APRIL-JUNE 1996
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.13E-03	3.13E-03	3.15E-03	3.13E-03	3.14E-03	6.22E-03	3.15E-03	6.37E-03
TEEN	3.13E-03	3.13E-03	3.16E-03	3.14E-03	3.15E-03	7.40E-03	3.15E-03	6.37E-03
CHILD	3.14E-03	3.13E-03	3.22E-03	3.14E-03	3.16E-03	1.11E-02	3.15E-03	6.37E-03
INFANT	3.14E-03	3.12E-03	3.18E-03	3.17E-03	3.18E-03	1.99E-02	3.15E-03	6.37E-03

COOPER NUCLEAR STATION APRIL-JUNE 1996
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.37E-02	2.37E-02	2.41E-02	2.38E-02	2.39E-02	8.20E-02	2.39E-02	5.64E-02
TEEN	2.38E-02	2.37E-02	2.43E-02	2.39E-02	2.41E-02	1.05E-01	2.39E-02	5.64E-02
CHILD	2.39E-02	2.37E-02	2.53E-02	2.41E-02	2.44E-02	1.76E-01	2.39E-02	5.64E-02
INFANT	2.40E-02	2.37E-02	2.46E-02	2.46E-02	2.48E-02	3.45E-01	2.39E-02	5.64E-02

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 1996

COOPER NUCLEAR STATION JANUARY-JUNE 1996
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.08E-02	1.07E-02	1.12E-02	1.11E-02	1.16E-02	2.37E-01	1.06E-02	2.58E-02
TEEN	1.10E-02	1.07E-02	1.17E-02	1.15E-02	1.23E-02	3.23E-01	1.06E-02	2.58E-02
CHILD	1.15E-02	1.06E-02	1.33E-02	1.22E-02	1.33E-02	5.94E-01	1.06E-02	2.58E-02
INFANT	1.21E-02	1.06E-02	1.38E-02	1.42E-02	1.48E-02	1.24E+00	1.06E-02	2.58E-02

COOPER NUCLEAR STATION JANUARY-JUNE 1996
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.96E-02	1.96E-02	1.99E-02	1.97E-02	1.99E-02	1.19E-01	1.96E-02	4.56E-02
TEEN	1.97E-02	1.96E-02	2.02E-02	1.99E-02	2.02E-02	1.57E-01	1.96E-02	4.56E-02
CHILD	1.99E-02	1.95E-02	2.13E-02	2.02E-02	2.07E-02	2.78E-01	1.96E-02	4.56E-02
INFANT	2.02E-02	1.95E-02	2.10E-02	2.11E-02	2.14E-02	5.61E-01	1.96E-02	4.56E-02

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 1996 (CONTINUED)

COOPER NUCLEAR STATION JANUARY-JUNE 1996
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.99E-03	2.99E-03	3.01E-03	3.00E-03	3.01E-03	7.93E-03	3.01E-03	6.08E-03
TEEN	2.99E-03	[illegible]-03	3.03E-03	3.00E-03	3.02E-03	9.79E-03	3.01E-03	6.08E-03
CHILD	3.00E-03	[illegible]	3.09E-03	3.02E-03	3.04E-03	1.56E-02	3.01E-03	6.08E-03
INFANT	3.02E-03	2.98E-03	3.06E-03	3.06E-03	3.07E-03	2.92E-02	3.01E-03	6.08E-03

COOPER NUCLEAR STATION JANUARY-JUNE 1996
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.96E-02	1.96E-02	1.99E-02	1.97E-02	1.99E-02	1.19E-01	1.96E-02	4.56E-02
TEEN	1.97E-02	1.96E-02	2.02E-02	1.99E-02	2.02E-02	1.57E-01	1.96E-02	4.56E-02
CHILD	1.99E-02	1.95E-02	2.13E-02	2.02E-02	2.07E-02	2.78E-01	1.96E-02	4.56E-02
INFANT	2.02E-02	1.95E-02	2.10E-02	2.11E-02	2.14E-02	5.61E-01	1.96E-02	4.56E-02

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 1996

COOPER NUCLEAR STATION JULY-SEPTEMBER 1996
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	8.24E-03	8.01E-03	8.74E-03	8.64E-03	9.33E-03	3.24E-01	7.79E-03	1.86E-02
TEEN	8.49E-03	8.06E-03	9.37E-03	9.17E-03	1.02E-02	4.45E-01	7.79E-03	1.86E-02
CHILD	9.11E-03	7.96E-03	1.16E-02	1.01E-02	1.17E-02	8.20E-01	7.79E-03	1.86E-02
INFANT	9.95E-03	7.86E-03	1.23E-02	1.28E-02	1.37E-02	1.70E+00	7.79E-03	1.86E-02

COOPER NUCLEAR STATION JULY-SEPTEMBER 1996
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.14E-02	1.13E-02	1.18E-02	1.16E-02	1.19E-02	1.65E-01	1.13E-02	2.61E-02
TEEN	1.15E-02	1.14E-02	1.22E-02	1.19E-02	1.24E-02	2.24E-01	1.13E-02	2.61E-02
CHILD	1.19E-02	1.13E-02	1.36E-02	1.24E-02	1.31E-02	4.13E-01	1.13E-02	2.61E-02
INFANT	1.23E-02	1.12E-02	1.35E-02	1.37E-02	1.41E-02	8.58E-01	1.13E-02	2.61E-02

TABLE 4.DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 1996 (CONTINUED)

COOPER NUCLEAR STATION JULY-SEPTEMBER 1996
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.88E-03	1.88E-03	1.91E-03	1.89E-03	1.91E-03	9.06E-03	1.89E-03	3.82E-03
TEEN	1.89E-03	1.88E-03	1.93E-03	1.91E-03	1.93E-03	1.18E-02	1.90E-03	3.82E-03
CHILD	1.91E-03	1.88E-03	2.02E-03	1.93E-03	1.96E-03	2.02E-02	1.90E-03	3.82E-03
INFANT	1.92E-03	1.88E-03	1.98E-03	1.99E-03	2.01E-03	3.97E-02	1.90E-03	3.82E-03

COOPER NUCLEAR STATION JULY-SEPTEMBER 1996
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.14E-02	1.13E-02	1.18E-02	1.16E-02	1.19E-02	1.65E-01	1.13E-02	2.61E-02
TEEN	1.15E-02	1.14E-02	1.22E-02	1.19E-02	1.24E-02	2.24E-01	1.13E-02	2.61E-02
CHILD	1.19E-02	1.13E-02	1.36E-02	1.24E-02	1.31E-02	4.13E-01	1.13E-02	2.61E-02
INFANT	1.23E-02	1.12E-02	1.35E-02	1.37E-02	1.41E-02	8.58E-01	1.13E-02	2.61E-02

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 1996

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1996
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.32E-03	2.23E-03	2.77E-03	2.53E-03	2.90E-03	1.74E-01	2.04E-03	4.98E-03
TEEN	2.46E-03	2.26E-03	3.22E-03	2.82E-03	3.41E-03	2.39E-01	2.04E-03	4.98E-03
CHILD	2.81E-03	2.20E-03	4.85E-03	3.34E-03	4.20E-03	4.44E-01	2.04E-03	4.98E-03
INFANT	3.24E-03	2.11E-03	4.63E-03	4.81E-03	5.28E-03	9.24E-01	2.04E-03	4.98E-03

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1996
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.85E-03	1.82E-03	2.06E-03	1.93E-03	2.09E-03	7.35E-02	1.74E-03	4.11E-03
TEEN	1.91E-03	1.83E-03	2.2[illegible]E-03	2.06E-03	2.30E-03	1.01E-01	1.74E-03	4.11E-03
CHILD	2.06E-03	1.80E-03	3.00E-03	2.28E-03	2.64E-03	1.88E-01	1.74E-03	4.11E-03
INFANT	2.24E-03	1.76E-03	2.85E-03	2.91E-03	3.11E-03	3.93E-01	1.74E-03	4.11E-03

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 1996 (CONTINUED)

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1996
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.42E-04	4.44E-04	4.67E-04	4.46E-04	4.55E-04	4.21E-03	4.41E-04	8.88E-04
TEEN	4.46E-04	4.45E-04	4.86E-04	4.53E-04	4.65E-04	5.64E-03	4.43E-04	8.88E-04
CHILD	4.54E-04	4.42E-04	5.56E-04	4.64E-04	4.82E-04	1.00E-02	4.42E-04	8.88E-04
INFANT	4.62E-04	4.38E-04	5.01E-04	4.95E-04	5.05E-04	2.03E-02	4.42E-04	8.88E-04

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1996
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.85E-03	1.82E-03	2.06E-03	1.93E-03	2.09E-03	7.35E-02	1.74E-03	4.11E-03
TEEN	1.91E-03	1.83E-03	2.26E-03	2.06E-03	2.30E-03	1.01E-01	1.74E-03	4.11E-03
CHILD	2.06E-03	1.80E-03	3.00E-03	2.28E-03	2.64E-03	1.88E-01	1.74E-03	4.11E-03
INFANT	2.24E-03	1.76E-03	2.85E-03	2.91E-03	3.11E-03	3.93E-01	1.74E-03	4.11E-03

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 1996

COOPER NUCLEAR STATION JULY-DECEMBER 1996
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.18E-02	1.15E-02	1.27E-02	1.23E-02	1.34E-02	4.88E-01	1.10E-02	2.72E-02
TEEN	1.21E-02	1.15E-02	1.38E-02	1.32E-02	1.48E-02	6.70E-01	1.10E-02	2.72E-02
CHILD	1.31E-02	1.14E-02	1.76E-02	1.46E-02	1.70E-02	1.24E+00	1.10E-02	2.72E-02
INFANT	1.43E-02	1.12E-02	1.80E-02	1.87E-02	2.00E-02	2.57E+00	1.10E-02	2.72E-02

COOPER NUCLEAR STATION JULY-DECEMBER 1996
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.03E-02	1.02E-02	1.09E-02	1.06E-02	1.11E-02	2.28E-01	1.01E-02	2.31E-02
TEEN	1.05E-02	1.03E-02	1.15E-02	1.10E-02	1.17E-02	3.12E-01	1.01E-02	2.31E-02
CHILD	1.10E-02	1.02E-02	1.36E-02	1.17E-02	1.28E-02	5.78E-01	1.01E-02	2.31E-02
INFANT	1.16E-02	1.01E-02	1.34E-02	1.36E-02	1.42E-02	1.21E+00	1.01E-02	2.31E-02

TABLE 6 . DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 1996 (CONTINUED)

COOPER NUCLEAR STATION JULY-DECEMBER 1996
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.14E-03	2.14E-03	2.19E-03	2.15E-03	2.18E-03	1.28E-02	2.15E-03	4.32E-03
TEEN	2.15E-03	2.14E-03	2.23E-03	2.17E-03	2.21E-03	1.69E-02	2.15E-03	4.32E-03
CHILD	2.17E-03	2.14E-03	2.39E-03	2.20E-03	2.26E-03	2.93E-02	2.15E-03	4.32E-03
INFANT	2.20E-03	2.13E-03	2.30E-03	2.29E-03	2.32E-03	5.85E-02	2.15E-03	4.32E-03

COOPER NUCLEAR STATION JULY-DECEMBER 1996
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.03E-02	1.02E-02	1.09E-02	1.06E-02	1.11E-02	2.28E-01	1.01E-02	2.31E-02
TEEN	1.05E-02	1.03E-02	1.15E-02	1.10E-02	1.17E-02	3.12E-01	1.01E-02	2.31E-02
CHILD	1.10E-02	1.02E-02	1.36E-02	1.17E-02	1.28E-02	5.78E-01	1.01E-02	2.31E-02
INFANT	1.16E-02	1.01E-02	1.34E-02	1.36E-02	1.42E-02	1.21E+00	1.01E-02	2.31E-02

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 1996

COOPER NUCLEAR STATION JANUARY-DECEMBER 1996
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.50E-02	2.45E-02	2.62E-02	2.59E-02	2.74E-02	7.19E-01	2.40E-02	5.88E-02
TEEN	2.56E-02	2.46E-02	2.77E-02	2.70E-02	2.94E-02	9.85E-01	2.41E-02	5.88E-02
CHILD	2.69E-02	2.44E-02	3.30E-02	2.92E-02	3.26E-02	1.82E+00	2.41E-02	5.88E-02
INFANT	2.88E-02	2.42E-02	3.41E-02	3.51E-02	3.70E-02	3.77E+00	2.40E-02	5.88E-02

COOPER NUCLEAR STATION JANUARY-DECEMBER 1996
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.31E-02	3.30E-02	3.40E-02	3.35E-02	3.42E-02	3.38E-01	3.31E-02	7.75E-02
TEEN	3.34E-02	3.30E-02	3.49E-02	3.40E-02	3.51E-02	4.56E-01	3.31E-02	7.75E-02
CHILD	3.40E-02	3.29E-02	3.81E-02	3.50E-02	3.65E-02	8.28E-01	3.31E-02	7.75E-02
INFANT	3.48E-02	3.28E-02	3.74E-02	3.77E-02	3.85E-02	1.71E+00	3.31E-02	7.75E-02

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 1996 (CONTINUED)

COOPER NUCLEAR STATION JANUARY-DECEMBER 1996
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.67E-03	5.67E-03	5.74E-03	5.69E-03	5.72E-03	2.09E-02	5.71E-03	1.15E-02
TEEN	5.68E-03	5.67E-03	5.79E-03	5.72E-03	5.77E-03	2.66E-02	5.71E-03	1.15E-02
CHILD	5.72E-03	5.67E-03	6.00E-03	5.76E-03	5.84E-03	4.44E-02	5.71E-03	1.15E-02
INFANT	5.75E-03	5.65E-03	5.89E-03	5.89E-03	5.93E-03	8.60E-02	5.71E-03	1.15E-02

COOPER NUCLEAR STATION JANUARY-DECEMBER 1996
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.31E-02	3.30E-02	3.40E-02	3.35E-02	3.42E-02	3.38E-01	3.31E-02	7.75E-02
TEEN	3.34E-02	3.30E-02	3.49E-02	3.40E-02	3.51E-02	4.56E-01	3.31E-02	7.75E-02
CHILD	3.40E-02	3.29E-02	3.81E-02	3.50E-02	3.65E-02	8.28E-01	3.31E-02	7.75E-02
INFANT	3.48E-02	3.28E-02	3.74E-02	3.77E-02	3.85E-02	1.71E+00	3.31E-02	7.75E-02

TABLE8. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-MARCH 1996

COOPER NUCLEAR STATION JANUARY-MARCH 1996
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.89E-06	6.89E-06	6.89E-06	6.89E-06	6.89E-06	6.89E-06	7.01E-06	1.71E-05
GROUND	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.03E-07	1.25E-07
INHAL	1.19E-07	3.01E-08	1.61E-07	2.09E-07	3.55E-07	6.89E-05	0.00E+00	0.00E+00
VEGET	1.45E-06	4.83E-07	2.08E-06	2.56E-06	4.32E-06	8.29E-04	0.00E+00	0.00E+00
COW MILK	2.07E-06	6.42E-07	3.06E-06	3.67E-06	6.17E-06	1.19E-03	0.00E+00	0.00E+00
MEAT	4.56E-08	1.78E-08	6.09E-08	8.02E-08	1.36E-07	2.60E-05	0.00E+00	0.00E+00
TOTAL	1.07E-05	8.17E-06	1.24E-05	1.35E-05	1.80E-05	2.12E-03	7.11E-06	1.72E-05

TABLE 9. DOSES TO POPULATION WITHIN 50 MILES, APRIL-JUNE 1996

COOPER NUCLEAR STATION APRIL-JUNE 1996
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.63E-03	6.63E-03	6.63E-03	6.63E-03	6.63E-03	6.63E-03	6.75E-03	1.67E-02
GROUND	3.08E-06	3.08E-06	3.08E-06	3.08E-06	3.08E-06	3.08E-06	3.08E-06	3.71E-06
INHAL	3.20E-06	2.50E-06	5.53E-06	5.79E-06	9.84E-06	1.82E-03	9.09E-06	0.00E+00
VEGET	4.58E-05	4.73E-05	3.17E-04	6.72E-05	1.13E-04	2.18E-02	4.79E-09	0.00E+00
COW MILK	5.56E-05	1.96E-05	1.04E-04	9.71E-05	1.63E-04	3.14E-02	3.02E-10	0.00E+00
MEAT	1.29E-06	1.16E-06	4.04E-06	2.12E-06	3.61E-06	6.89E-04	1.78E-10	0.00E+00
TOTAL	6.74E-03	6.70E-03	7.06E-03	6.80E-03	6.92E-03	6.23E-02	6.76E-03	1.67E-02

TABLE 10.DOSES TO POPULATION WITHIN 50 MILES, JULY-SEPTEMBER 1996

COOPER NUCLEAR STATION JULY-SEPTEMBER 1996
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.76E-03	3.76E-03	3.76E-03	3.76E-03	3.76E-03	3.76E-03	3.82E-03	9.41E-03
GROUND	4.65E-06	4.65E-06	4.65E-06	4.65E-06	4.65E-06	4.65E-06	4.65E-06	5.59E-06
INHAL	6.17E-06	5.46E-06	1.04E-05	1.09E-05	1.85E-05	3.53E-03	2.47E-05	0.00E+00
VEGET	6.61E-05	7.00E-05	3.67E-04	1.01E-04	1.71E-04	3.28E-02	1.24E-08	0.00E+00
COW MILK	8.67E-05	3.01E-05	1.51E-04	1.52E-04	2.56E-04	4.92E-02	7.77E-10	0.00E+00
MEAT	2.01E-06	2.13E-06	5.50E-06	3.35E-06	5.70E-06	1.69E-03	4.64E-10	0.00E+00
TOTAL	3.92E-03	3.87E-03	4.29E-03	4.03E-03	4.21E-03	9.03E-02	3.85E-03	9.41E-03

TABLE II DOSES TO POPULATION WITHIN 50 MILES, OCTOBER-DECEMBER 1996

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1996
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.49E-04	7.49E-04	7.49E-04	7.49E-04	7.49E-04	7.49E-04	7.62E-04	1.86E-03
GROUND	3.00E-06	3.00E-06	3.00E-06	3.00E-06	3.00E-06	3.00E-06	3.00E-06	3.59E-06
INHAL	3.07E-06	2.94E-06	5.30E-06	5.35E-06	9.07E-06	1.76E-03	1.41E-05	0.00E+00
VEGET	4.86E-05	5.57E-05	2.94E-04	7.29E-05	1.23E-04	2.36E-02	1.02E-08	0.00E+00
COW MILK	6.27E-05	2.21E-05	1.12E-04	1.10E-04	1.85E-04	3.56E-02	6.39E-10	0.00E+00
MEAT	1.46E-06	1.66E-06	4.23E-06	2.42E-06	4.11E-06	7.86E-04	3.75E-10	0.00E+00
TOTAL	8.67E-04	8.34E-04	1.17E-03	9.42E-04	1.07E-03	6.25E-02	7.79E-04	1.86E-03

TABLE 12 DOSES TO POPULATION WITHIN 50 MILES, JANUARY-JUNE 1996

COOPER NUCLEAR STATION JANUARY-JUNE 1996
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.45E-03	7.45E-03	7.45E-03	7.45E-03	7.45E-03	7.45E-03	7.58E-03	1.86E-02
GROUND	4.39E-06	4.39E-06	4.39E-06	4.39E-06	4.39E-06	4.39E-06	4.39E-06	5.30E-06
INHAL	4.95E-06	3.11E-06	8.02E-06	8.90E-06	1.51E-05	2.84E-03	9.95E-06	0.00E+00
VEGET	6.87E-05	5.74E-05	3.69E-04	1.06E-04	1.80E-04	3.45E-02	5.16E-09	0.00E+00
COW MILK	8.89E-05	3.00E-05	1.55E-04	1.56E-04	2.63E-04	5.05E-02	3.22E-10	0.00E+00
MEAT	2.03E-06	1.49E-06	5.18E-06	3.42E-06	5.81E-06	1.11E-03	1.89E-10	0.00E+00
TOTAL	7.61E-03	7.54E-03	7.99E-03	7.72E-03	7.91E-03	9.64E-02	7.59E-03	1.86E-02

TABLE 13. DOSES TO POPULATION WITHIN 50 MILES, JULY-DECEMBER 1996

COOPER NUCLEAR STATION JULY-DECEMBER 1996
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.99E-03	3.99E-03	3.99E-03	3.99E-03	3.99E-03	3.99E-03	4.05E-03	9.92E-03
GROUND	7.54E-06	7.54E-06	7.54E-06	7.54E-06	7.54E-06	7.54E-06	7.54E-06	9.04E-06
INHAL	8.94E-06	8.16E-06	1.52E-05	1.57E-05	2.66E-05	5.12E-03	3.80E-05	0.00E+00
VEGET	1.14E-04	1.25E-04	6.57E-04	1.73E-04	2.92E-04	5.60E-02	2.24E-08	0.00E+00
COW MILK	1.48E-04	5.18E-05	2.61E-04	2.60E-04	4.38E-04	8.41E-02	1.40E-09	0.00E+00
MEAT	3.45E-06	3.75E-06	9.66E-06	5.73E-06	9.74E-06	1.86E-03	8.31E-10	0.00E+00
TOTAL	4.27E-03	4.18E-03	4.94E-03	4.45E-03	4.76E-03	1.51E-01	4.10E-03	9.93E-03

TABLE 14. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-DECEMBER 1996

COOPER NUCLEAR STATION JANUARY-DECEMBER 1996
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.18E-02	1.20E-02	2.94E-02
GROUND	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.42E-05
INHAL	1.38E-05	1.10E-05	2.30E-05	2.45E-05	4.16E-05	7.92E-03	4.60E-05	0.00E+00
VEGET	1.83E-04	1.83E-04	1.03E-03	2.79E-04	4.71E-04	9.05E-02	2.80E-08	0.00E+00
COW MILK	2.37E-04	8.19E-05	4.16E-04	4.16E-04	7.00E-04	1.35E-01	1.75E-09	0.00E+00
MEAT	5.48E-06	5.27E-06	1.49E-05	9.15E-06	1.55E-05	2.97E-03	1.03E-09	0.00E+00
TOTAL	1.22E-02	1.21E-02	1.33E-02	1.25E-02	1.30E-02	2.48E-01	1.21E-02	2.94E-02

TABLE15. GAMMA AND BETA AIR DOSES, JANUARY-MARCH 1996

COOPER NUCLEAR STATION JANUARY-MARCH 1996

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	9.158E-06	4.179E-06	2.402E-06	1.461E-06	9.883E-07	4.252E-07	2.000E-07	8.388E-08	3.792E-08	1.998E-08
NNE	3.543E-06	4.736E-06	2.682E-06	1.636E-06	1.108E-06	1.207E-06	3.111E-07	1.085E-07	5.037E-08	2.730E-08
NE	5.853E-07	1.589E-06	1.157E-06	7.587E-07	5.068E-07	6.509E-07	1.642E-07	5.390E-08	2.394E-08	1.233E-08
ENE	2.927E-08	8.146E-07	5.666E-07	3.750E-07	2.616E-07	5.622E-07	1.572E-07	5.729E-08	2.976E-08	1.621E-08
E	4.521E-07	1.107E-06	6.858E-07	4.425E-07	3.007E-07	5.460E-07	1.502E-07	5.612E-08	2.704E-08	1.609E-08
ESE	5.965E-06	4.686E-06	2.647E-06	1.533E-06	9.207E-07	8.950E-07	2.412E-07	9.212E-08	4.572E-08	2.575E-08
SE	1.316E-05	1.941E-05	7.396E-06	3.978E-06	2.413E-06	8.777E-07	2.770E-07	1.076E-07	5.525E-08	3.172E-08
SSE	2.118E-05	1.834E-05	6.465E-06	3.551E-06	4.204E-06	1.406E-06	3.436E-07	1.220E-07	5.845E-08	3.253E-08
S	1.297E-05	1.113E-05	5.782E-06	3.009E-06	2.639E-06	9.397E-07	2.261E-07	7.773E-08	3.493E-08	1.826E-08
SSW	7.180E-07	3.245E-06	1.526E-06	1.200E-06	7.447E-07	2.866E-07	6.890E-08	2.306E-08	1.025E-08	5.322E-09
SW	4.688E-08	3.888E-06	1.341E-06	6.333E-07	3.687E-07	1.496E-07	3.651E-08	1.220E-08	5.411E-09	2.800E-09
WSW	4.837E-07	5.465E-06	1.707E-06	7.333E-07	4.168E-07	1.490E-07	3.727E-08	1.265E-08	5.770E-09	2.082E-09
W	8.425E-06	3.884E-06	1.110E-06	4.640E-07	2.601E-07	8.257E-08	1.952E-08	5.787E-09	2.332E-09	1.122E-09
WNW	2.873E-06	2.902E-05	6.992E-06	3.222E-06	1.763E-06	5.416E-07	1.320E-07	4.661E-08	2.234E-08	1.235E-08
NW	8.061E-06	2.533E-05	6.368E-06	2.808E-06	1.515E-06	4.963E-07	1.251E-07	4.134E-08	1.830E-08	9.561E-09
NNW	1.454E-05	9.010E-06	6.041E-06	3.479E-06	1.892E-06	6.331E-07	1.589E-07	5.580E-08	2.638E-08	1.433E-08

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	9.244E-06	3.419E-06	1.725E-06	1.043E-06	7.175E-07	3.227E-07	1.574E-07	7.212E-08	3.741E-08	2.313E-08
NNE	3.542E-06	3.842E-06	1.933E-06	1.166E-06	8.016E-07	9.103E-07	2.425E-07	9.007E-08	4.653E-08	2.870E-08
NE	5.953E-07	1.249E-06	8.407E-07	5.396E-07	3.664E-07	4.976E-07	1.313E-07	4.883E-08	2.605E-08	1.638E-08
ENE	2.774E-08	5.910E-07	4.039E-07	2.726E-07	1.942E-07	4.270E-07	1.236E-07	4.880E-08	2.855E-08	1.799E-08
E	4.418E-07	8.896E-07	4.987E-07	3.148E-07	2.157E-07	4.101E-07	1.171E-07	4.647E-08	2.485E-08	1.676E-08
ESE	6.070E-06	4.021E-06	2.092E-06	1.129E-06	6.549E-07	6.601E-07	1.858E-07	7.355E-08	3.898E-08	2.413E-08
SE	1.342E-05	1.879E-05	6.035E-06	2.998E-06	1.741E-06	6.314E-07	2.099E-07	8.357E-08	4.419E-08	2.655E-08
SSE	2.165E-05	1.768E-05	5.132E-06	2.623E-06	2.990E-06	1.034E-06	2.641E-07	9.704E-08	4.948E-08	2.999E-08
S	1.306E-05	9.482E-06	4.483E-06	2.164E-06	1.885E-06	7.034E-07	1.757E-07	6.412E-08	3.201E-08	1.922E-08
SSW	7.181E-07	2.901E-06	1.162E-06	8.557E-07	5.321E-07	2.150E-07	5.363E-08	1.917E-08	9.543E-09	5.715E-09
SW	4.590E-08	2.970E-06	9.550E-07	4.554E-07	2.700E-07	1.136E-07	2.871E-08	1.043E-08	5.268E-09	3.183E-09
WSW	4.745E-07	4.235E-06	1.227E-06	5.243E-07	3.024E-07	1.123E-07	2.908E-08	1.047E-08	5.270E-09	3.177E-09
W	8.332E-06	2.899E-06	7.895E-07	3.389E-07	1.936E-07	6.350E-08	1.604E-08	5.704E-09	2.905E-09	1.781E-09
WNW	2.845E-06	2.560E-05	5.246E-06	2.313E-06	1.254E-06	3.980E-07	1.014E-07	3.685E-08	1.857E-08	1.104E-08
NW	8.099E-06	2.029E-05	4.552E-06	2.009E-06	1.106E-06	3.765E-07	9.850E-08	3.549E-08	1.810E-08	1.107E-08
NNW	1.455E-05	7.024E-06	4.393E-06	2.475E-06	1.363E-06	4.753E-07	1.236E-07	4.592E-08	2.384E-08	1.464E-08

TABLE 16. GAMMA AND BETA AIR DOSES, APRIL-JUNE 1996

COOPER NUCLEAR STATION APRIL-JUNE 1996

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	2.281E-02	8.487E-03	4.051E-03	2.123E-03	1.345E-03	5.354E-04	2.133E-04	8.523E-05	3.777E-05	1.956E-05
NNE	1.186E-02	4.138E-03	2.152E-03	1.263E-03	7.925E-04	7.208E-04	1.831E-04	6.364E-05	2.964E-05	1.590E-05
NE	3.010E-03	1.281E-03	6.869E-04	4.128E-04	2.704E-04	3.737E-04	9.647E-05	3.402E-05	1.602E-05	8.586E-06
ENE	8.719E-04	7.951E-04	3.868E-04	2.186E-04	1.430E-04	1.560E-04	3.952E-05	1.321E-05	6.186E-06	3.203E-06
E	3.321E-03	1.437E-03	7.121E-04	4.092E-04	2.625E-04	2.457E-04	6.108E-05	1.935E-05	8.290E-06	4.382E-06
ESE	1.334E-02	3.200E-03	1.249E-03	6.848E-04	4.323E-04	4.192E-04	1.157E-04	4.179E-05	1.972E-05	1.088E-05
SE	1.372E-02	6.087E-03	2.529E-03	1.326E-03	7.983E-04	2.797E-04	8.953E-05	3.058E-05	1.317E-05	6.518E-06
SSE	2.889E-02	1.012E-02	4.555E-03	2.411E-03	2.716E-03	8.710E-04	2.113E-04	7.410E-05	3.491E-05	1.888E-05
S	3.217E-02	1.019E-02	4.205E-03	2.273E-03	2.104E-03	8.180E-04	2.023E-04	6.883E-05	3.049E-05	1.583E-05
SSW	7.662E-03	4.216E-03	2.083E-03	1.917E-03	1.309E-03	6.814E-04	1.520E-04	4.402E-05	1.714E-05	8.148E-06
SW	1.147E-02	1.010E-02	3.296E-03	1.559E-03	8.584E-04	3.316E-04	8.080E-05	2.770E-05	1.250E-05	6.591E-06
WSW	1.444E-02	2.247E-02	6.470E-03	2.883E-03	1.612E-03	5.618E-04	1.408E-04	4.482E-05	1.930E-05	9.738E-06
W	2.970E-02	2.169E-02	5.994E-03	2.731E-03	1.534E-03	5.176E-04	1.419E-04	4.653E-05	1.993E-05	1.002E-05
WNW	1.304E-02	2.800E-02	8.033E-03	3.873E-03	2.130E-03	6.834E-04	1.815E-04	6.318E-05	2.957E-05	1.575E-05
NW	1.190E-02	4.161E-02	1.138E-02	5.159E-03	2.805E-03	9.362E-04	2.377E-04	7.191E-05	2.948E-05	1.435E-05
NNW	3.092E-02	1.348E-02	7.455E-03	4.642E-03	2.544E-03	9.115E-04	2.305E-04	7.571E-05	3.324E-05	1.706E-05

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	2.203E-02	7.010E-03	3.000E-03	1.511E-03	9.662E-04	4.021E-04	1.681E-04	7.473E-05	3.871E-05	2.394E-05
NNE	1.053E-02	3.117E-03	1.546E-03	8.997E-04	5.740E-04	5.430E-04	1.428E-04	5.283E-05	2.729E-05	1.672E-05
NE	2.412E-03	9.380E-04	4.908E-04	2.946E-04	1.961E-04	2.824E-04	7.560E-05	2.861E-05	1.516E-05	9.406E-06
ENE	9.125E-04	6.506E-04	2.766E-04	1.578E-04	1.058E-04	1.195E-04	3.167E-05	1.190E-05	6.539E-06	4.076E-06
E	2.914E-03	1.122E-03	5.091E-04	2.937E-04	1.929E-04	1.893E-04	4.986E-05	1.860E-05	9.877E-06	6.487E-06
ESE	1.335E-02	2.714E-03	9.127E-04	4.874E-04	3.115E-04	3.174E-04	9.069E-05	3.523E-05	1.872E-05	1.184E-05
SE	1.393E-02	5.471E-03	1.976E-03	9.609E-04	5.683E-04	2.091E-04	7.121E-05	2.832E-05	1.546E-05	9.662E-06
SSE	2.052E-02	8.728E-03	3.507E-03	1.745E-03	1.935E-03	6.470E-04	1.636E-04	5.985E-05	3.043E-05	1.830E-05
S	3.173E-02	8.427E-03	3.091E-03	1.620E-03	1.516E-03	6.200E-04	1.592E-04	5.920E-05	3.020E-05	1.857E-05
SSW	6.424E-03	3.099E-03	1.487E-03	1.411E-03	9.875E-04	5.307E-04	1.316E-04	4.980E-05	2.625E-05	1.655E-05
SW	1.124E-02	7.812E-03	2.362E-03	1.112E-03	6.241E-04	2.512E-04	6.340E-05	2.334E-05	1.184E-05	7.182E-06
WSW	1.386E-02	1.765E-02	4.628E-03	2.065E-03	1.176E-03	4.283E-04	1.118E-04	3.963E-05	2.008E-05	1.224E-05
W	2.916E-02	1.740E-02	4.277E-03	1.963E-03	1.12[illegible]E-03	3.951E-04	1.135E-04	4.230E-05	2.174E-05	1.341E-05
WNW	1.287E-02	2.270E-02	5.828E-03	2.757E-03	1.532E-03	5.151E-04	1.414E-04	5.213E-05	2.680E-05	1.620E-05
NW	1.112E-02	3.317E-02	8.167E-03	3.691E-03	2.051E-03	7.161E-04	1.931E-04	6.928E-05	3.661E-05	2.287E-05
NNW	3.042E-02	1.087E-02	5.388E-03	3.327E-03	1.864E-03	6.973E-04	1.844E-04	6.876E-05	3.657E-05	2.341E-05

TABLE17. GAMMA AND BETA AIR DOSES, JANUARY-JUNE 1996

COOPER NUCLEAR STATION JANUARY-JUNE 1996

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	1.690E-02	6.867E-03	3.404E-03	1.945E-03	1.252E-03	5.324E-04	2.296E-04	9.391E-05	4.211E-05	2.207E-05
NNE	7.871E-03	4.836E-03	2.701E-03	1.599E-03	1.089E-03	1.106E-03	2.807E-04	9.836E-05	4.583E-05	2.470E-05
NE	1.941E-03	1.696E-03	9.583E-04	6.310E-04	4.476E-04	5.833E-04	1.484E-04	4.981E-05	2.254E-05	1.163E-05
ENE	4.694E-04	9.248E-04	5.438E-04	3.379E-04	2.300E-04	4.193E-04	1.162E-04	4.151E-05	2.129E-05	1.139E-05
E	1.977E-03	1.547E-03	7.760E-04	4.713E-04	3.141E-04	4.450E-04	1.210E-04	4.304E-05	1.998E-05	1.160E-05
ESE	1.031E-02	4.732E-03	2.056E-03	1.269E-03	7.507E-04	7.374E-04	2.040E-04	7.679E-05	3.755E-05	2.118E-05
SE	1.487E-02	1.257E-02	5.701E-03	3.118E-03	1.842E-03	6.663E-04	2.041E-04	7.596E-05	3.613E-05	1.930E-05
SSE	2.312E-02	1.344E-02	6.177E-03	3.347E-03	3.918E-03	1.273E-03	3.129E-04	1.114E-04	5.299E-05	2.932E-05
S	3.436E-02	1.259E-02	5.562E-03	3.005E-03	2.695E-03	9.925E-04	2.388E-04	8.143E-05	3.635E-05	1.893E-05
SSW	4.446E-03	3.670E-03	1.880E-03	1.616E-03	1.059E-03	4.975E-04	1.152E-04	3.407E-05	1.354E-05	6.523E-06
SW	7.082E-03	7.604E-03	2.451E-03	1.177E-03	6.347E-04	2.579E-04	6.293E-05	2.110E-05	9.598E-06	5.009E-06
WSW	7.214E-03	1.461E-02	4.273E-03	1.909E-03	1.070E-03	3.728E-04	9.322E-05	3.019E-05	1.322E-05	6.722E-06
W	2.064E-02	1.200E-02	3.669E-03	1.682E-03	9.321E-04	3.099E-04	8.348E-05	2.697E-05	1.140E-05	5.694E-06
WNW	7.774E-03	3.149E-02	8.267E-03	3.812E-03	2.098E-03	6.629E-04	1.712E-04	6.009E-05	2.818E-05	1.538E-05
NW	1.066E-02	3.542E-02	9.685E-03	4.297E-03	2.340E-03	7.614E-04	1.943E-04	6.850E-05	2.551E-05	1.269E-05
NNW	2.126E-02	1.236E-02	7.342E-03	4.431E-03	2.428E-03	8.442E-04	2.114E-04	7.105E-05	3.177E-05	1.656E-05

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	1.655E-02	5.668E-03	2.467E-03	1.386E-03	9.066E-04	4.022E-04	1.810E-04	8.167E-05	4.238E-05	2.624E-05
NNE	7.153E-03	3.754E-03	1.943E-03	1.141E-03	7.874E-04	8.338E-04	2.193E-04	8.182E-05	4.234E-05	2.603E-05
NE	1.649E-03	1.313E-03	6.835E-04	4.510E-04	3.240E-04	4.453E-04	1.180E-04	4.413E-05	2.350E-05	1.467E-05
ENE	4.913E-04	7.068E-04	3.871E-04	2.454E-04	1.710E-04	3.197E-04	9.179E-05	3.580E-05	2.079E-05	1.303E-05
E	1.771E-03	1.273E-03	5.589E-04	3.362E-04	2.278E-04	3.386E-04	9.550E-05	3.711E-05	1.978E-05	1.332E-05
ESE	1.038E-02	4.125E-03	1.536E-03	9.169E-04	5.360E-04	5.512E-04	1.582E-04	6.235E-05	3.308E-05	2.071E-05
SE	1.513E-02	1.144E-02	4.580E-03	2.332E-03	1.318E-03	4.848E-04	1.574E-04	6.118E-05	3.176E-05	1.905E-05
SSE	2.317E-02	1.181E-02	4.829E-03	2.447E-03	2.790E-03	9.430E-04	2.416E-04	8.925E-05	4.545E-05	2.756E-05
S	3.596E-02	1.080E-02	4.194E-03	2.154E-03	1.931E-03	7.470E-04	1.869E-04	6.861E-05	3.462E-05	2.103E-05
SSW	3.845E-03	2.801E-03	1.340E-03	1.171E-03	7.891E-04	3.851E-04	9.614E-05	3.538E-05	1.836E-05	1.147E-05
SW	7.198E-03	5.904E-03	1.751E-03	8.414E-04	4.652E-04	1.957E-04	4.946E-05	1.796E-05	9.187E-06	5.556E-06
WSW	6.851E-03	1.143E-02	3.058E-03	1.366E-03	7.790E-04	2.837E-04	7.376E-05	2.627E-05	1.331E-05	8.071E-06
W	2.043E-02	9.140E-03	2.614E-03	1.209E-03	6.861E-04	2.371E-04	6.700E-05	2.477E-05	1.269E-05	7.821E-06
WNW	7.573E-03	2.664E-02	6.081E-03	2.715E-03	1.501E-03	4.955E-04	1.327E-04	4.861E-05	2.461E-05	1.484E-05
NW	1.025E-02	2.801E-02	6.950E-03	3.076E-03	1.710E-03	5.820E-04	1.562E-04	5.597E-05	2.923E-05	1.813E-05
NNW	2.044E-02	9.838E-03	5.310E-03	3.165E-03	1.766E-03	6.415E-04	1.671E-04	6.190E-05	3.237E-05	2.036E-05

TABLE 18 GAMMA AND BETA AIR DOSES, JULY-SEPTEMBER 1996

COOPER NUCLEAR STATION JULY-SEPTEMBER 1996

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	1.316E-02	3.693E-03	1.766E-03	9.722E-04	6.088E-04	2.578E-04	1.163E-04	5.143E-05	2.397E-05	1.292E-05
NNE	7.082E-03	2.537E-03	1.143E-03	6.449E-04	4.181E-04	4.326E-04	1.048E-04	3.275E-05	1.393E-05	6.999E-06
NE	5.684E-03	1.630E-03	6.541E-04	3.500E-04	2.267E-04	2.718E-04	7.018E-05	2.512E-05	1.205E-05	6.573E-06
ENE	1.615E-03	1.107E-03	5.544E-04	3.051E-04	1.935E-04	1.920E-04	4.881E-05	1.638E-05	7.716E-06	4.020E-06
E	2.793E-03	1.167E-03	5.292E-04	2.900E-04	1.866E-04	2.226E-04	5.831E-05	1.963E-05	8.742E-06	4.558E-06
ESE	1.429E-03	8.739E-04	4.582E-04	2.723E-04	1.661E-04	1.567E-04	4.234E-05	1.530E-05	7.184E-06	3.867E-06
SE	5.266E-04	6.129E-04	2.871E-04	1.640E-04	1.074E-04	4.706E-05	2.049E-05	7.591E-06	3.550E-06	1.746E-06
SSE	6.133E-03	2.987E-03	1.279E-03	7.008E-04	9.875E-04	3.426E-04	8.548E-05	2.972E-05	1.376E-05	7.361E-06
S	8.912E-03	3.556E-03	1.415E-03	7.633E-04	7.946E-04	3.489E-04	8.825E-05	3.148E-05	1.426E-05	7.599E-06
SSW	6.367E-03	1.929E-03	9.451E-04	8.557E-04	5.787E-04	2.867E-04	6.744E-05	2.104E-05	8.596E-06	4.200E-06
SW	4.589E-03	3.731E-03	1.329E-03	6.441E-04	3.798E-04	1.710E-04	3.726E-05	1.059E-05	4.116E-06	1.947E-06
WSW	2.074E-03	5.306E-03	1.899E-03	9.286E-04	5.434E-04	2.437E-04	6.654E-05	2.367E-05	8.750E-06	4.376E-06
W	1.008E-02	8.887E-03	2.818E-03	1.333E-03	7.709E-04	2.740E-04	7.589E-05	2.330E-05	9.413E-06	4.539E-06
WNW	1.446E-02	1.470E-02	4.291E-03	2.130E-03	1.195E-03	4.155E-04	1.055E-04	3.381E-05	1.444E-05	7.212E-06
NW	1.365E-02	2.065E-02	5.870E-03	2.704E-03	1.533E-03	5.227E-04	1.379E-04	4.837E-05	2.255E-05	1.206E-05
NNW	1.103E-02	7.991E-03	4.903E-03	2.792E-03	1.507E-03	5.042E-04	1.256E-04	4.214E-05	1.885E-05	9.743E-06

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	1.299E-02	2.852E-03	1.264E-03	6.916E-04	4.411E-04	1.937E-04	9.032E-05	4.249E-05	2.203E-05	1.355E-05
NNE	6.734E-03	1.954E-03	8.105E-04	4.659E-04	3.092E-04	3.316E-04	8.487E-05	3.111E-05	1.635E-05	1.027E-05
NE	5.458E-03	1.262E-03	4.651E-04	2.510E-04	1.655E-04	2.048E-04	5.464E-05	2.086E-05	1.111E-05	6.915E-06
ENE	1.339E-03	8.321E-04	3.935E-04	2.202E-04	1.431E-04	1.463E-04	3.879E-05	1.460E-05	8.113E-06	5.079E-06
E	2.829E-03	9.413E-04	3.787E-04	2.073E-04	1.363E-04	1.690E-04	4.597E-05	1.723E-05	9.047E-06	5.841E-06
ESE	1.415E-03	6.912E-04	3.300E-04	1.932E-04	1.204E-04	1.179E-04	3.293E-05	1.271E-05	6.676E-06	4.148E-06
SE	5.196E-04	4.883E-04	2.037E-04	1.195E-04	8.026E-05	3.626E-05	1.756E-05	8.645E-06	5.644E-06	3.698E-06
SSE	6.032E-03	2.496E-03	9.368E-04	4.971E-04	7.100E-04	2.571E-04	6.636E-05	2.452E-05	1.261E-05	7.706E-06
S	8.139E-03	2.732E-03	1.005E-03	5.462E-04	5.801E-04	2.643E-04	6.922E-05	2.685E-05	1.389E-05	8.651E-06
SSW	4.213E-03	1.435E-03	6.712E-04	6.229E-04	4.307E-04	2.205E-04	5.544E-05	2.089E-05	1.086E-05	6.783E-06
SW	4.019E-03	2.649E-03	9.627E-04	4.803E-04	2.878E-04	1.330E-04	3.260E-05	1.230E-05	6.558E-06	4.128E-06
WSW	1.922E-03	3.825E-03	1.355E-03	6.800E-04	4.066E-04	1.870E-04	5.414E-05	1.980E-05	1.038E-05	6.506E-06
W	9.316E-03	6.465E-03	2.016E-03	9.817E-04	5.793E-04	2.112E-04	6.333E-05	2.420E-05	1.272E-05	7.986E-06
WNW	1.378E-02	1.093E-02	3.048E-03	1.545E-03	8.846E-04	3.176E-04	8.495E-05	3.141E-05	1.640E-05	1.019E-05
NW	1.249E-02	1.620E-02	4.200E-03	1.923E-03	1.104E-03	3.921E-04	1.072E-04	4.005E-05	2.082E-05	1.277E-05
NNW	1.078E-02	6.405E-03	3.549E-03	1.984E-03	1.090E-03	3.810E-04	9.837E-05	3.607E-05	1.866E-05	1.158E-05

TABLE 19. GAMMA AND BETA AIR DOSES, OCTOBER-DECEMBER 1996

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1996

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	3.286E-03	9.501E-04	4.661E-04	2.801E-04	1.783E-04	7.203E-05	3.055E-05	1.333E-05	6.760E-06	3.895E-06
NNE	1.083E-03	3.454E-04	1.866E-04	1.085E-04	7.575E-05	1.029E-04	2.675E-05	9.636E-06	4.588E-06	2.517E-06
NE	3.702E-04	1.773E-04	8.476E-05	5.041E-05	3.159E-05	3.334E-05	7.893E-06	2.405E-06	1.017E-06	5.102E-07
ENE	1.530E-04	1.531E-04	8.526E-05	4.985E-05	3.240E-05	2.512E-05	6.134E-06	1.983E-06	8.896E-07	4.558E-07
E	2.362E-04	1.976E-04	9.430E-05	5.380E-05	3.416E-05	2.712E-05	6.851E-06	2.333E-06	1.055E-06	5.794E-07
ESE	2.130E-04	4.679E-04	2.370E-04	1.373E-04	8.562E-05	5.807E-05	1.407E-05	5.120E-06	2.482E-06	1.401E-06
SE	4.571E-04	1.014E-03	4.908E-04	2.640E-04	1.611E-04	5.957E-05	1.768E-05	6.367E-06	3.017E-06	1.617E-06
SSE	2.110E-03	1.298E-03	5.707E-04	2.925E-04	2.824E-04	8.553E-05	1.991E-05	6.978E-06	3.304E-06	1.822E-06
S	3.666E-03	1.487E-03	5.568E-04	2.981E-04	2.532E-04	9.088E-05	2.123E-05	6.860E-06	2.954E-06	1.506E-06
SSW	2.011E-04	3.881E-04	2.001E-04	1.720E-04	1.101E-04	4.893E-05	1.123E-05	3.327E-06	1.302E-06	6.193E-07
SW	6.913E-05	6.485E-04	2.459E-04	1.222E-04	7.236E-05	3.366E-05	7.125E-06	1.942E-06	7.325E-07	3.449E-07
WSW	3.852E-05	9.106E-04	2.892E-04	1.331E-04	7.376E-05	2.671E-05	6.343E-06	1.820E-06	7.271E-07	3.484E-07
W	6.053E-04	1.327E-03	3.785E-04	1.672E-04	9.579E-05	3.040E-05	7.905E-06	2.559E-06	1.086E-06	5.443E-07
WNW	1.168E-03	2.580E-03	7.134E-04	3.161E-04	1.744E-04	5.504E-05	1.329E-05	4.429E-06	2.023E-06	1.053E-06
NW	1.264E-03	2.516E-03	6.998E-04	3.125E-04	1.723E-04	5.617E-05	1.460E-05	4.879E-06	2.209E-06	1.141E-06
NNW	1.973E-03	1.805E-03	1.072E-03	6.391E-04	3.502E-04	1.202E-04	3.008E-05	1.076E-05	5.144E-06	2.836E-06

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	3.248E-03	8.393E-04	3.643E-04	2.072E-04	1.275E-04	5.236E-05	2.331E-05	1.043E-05	5.476E-06	3.333E-06
NNE	1.059E-03	2.685E-04	1.342E-04	7.749E-05	5.467E-05	7.725E-05	2.083E-05	7.930E-06	4.150E-06	2.571E-06
NE	3.528E-04	1.290E-04	6.134E-05	3.737E-05	2.395E-05	2.585E-05	6.581E-06	2.423E-06	1.299E-06	8.225E-07
ENE	1.523E-04	1.143E-04	6.067E-05	3.624E-05	2.407E-05	1.923E-05	4.898E-06	1.772E-06	9.303E-07	5.711E-07
E	2.291E-04	1.566E-04	6.720E-05	3.866E-05	2.510E-05	2.067E-05	5.413E-06	2.006E-06	1.036E-06	6.578E-07
ESE	2.149E-04	3.999E-04	1.756E-04	9.790E-05	6.123E-05	4.272E-05	1.085E-05	4.078E-06	2.091E-06	1.272E-06
SE	4.585E-04	8.682E-04	3.672E-04	1.882E-04	1.151E-04	4.430E-05	1.371E-05	5.157E-06	2.633E-06	1.564E-06
SSE	2.128E-03	1.105E-03	4.323E-04	2.094E-04	2.010E-04	6.317E-05	1.536E-05	5.560E-06	2.789E-06	1.665E-06
S	3.840E-03	1.218E-03	3.971E-04	2.134E-04	1.856E-04	6.925E-05	1.682E-05	5.996E-06	3.004E-06	1.822E-06
SSW	1.929E-04	3.026E-04	1.426E-04	1.234E-04	8.083E-05	3.775E-05	9.305E-06	3.472E-06	1.797E-06	1.122E-06
SW	6.553E-05	4.643E-04	1.783E-04	9.148E-05	5.520E-05	2.641E-05	6.441E-06	2.427E-06	1.295E-06	8.163E-07
WSW	3.836E-05	6.716E-04	2.058E-04	9.669E-05	5.492E-05	2.060E-05	5.245E-06	1.826E-06	9.327E-07	5.737E-07
W	5.958E-04	1.026E-03	2.695E-04	1.204E-04	7.009E-05	2.321E-05	6.296E-06	2.277E-06	1.142E-06	6.920E-07
WNW	1.147E-03	2.070E-03	5.170E-04	2.250E-04	1.256E-04	4.136E-05	1.037E-05	3.684E-06	1.859E-06	1.108E-06
NW	1.247E-03	1.967E-03	5.012E-04	2.234E-04	1.253E-04	4.265E-05	1.149E-05	4.167E-06	2.148E-06	1.306E-06
NNW	2.004E-03	1.520E-03	7.861E-04	4.546E-04	2.514E-04	8.979E-05	2.338E-05	8.774E-06	4.563E-06	2.810E-06

TABLE 20. GAMMA AND BETA AIR DOSES, JULY-DECEMBER 1996

COOPER NUCLEAR STATION JULY-DECEMBER 1996

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	1.589E-02	4.367E-03	2.136E-03	1.222E-03	7.865E-04	3.201E-04	1.411E-04	6.223E-05	3.000E-05	1.668E-05
NNE	7.273E-03	2.393E-03	1.143E-03	6.617E-04	4.328E-04	5.004E-04	1.269E-04	4.211E-05	1.872E-05	9.774E-06
NE	4.085E-03	1.388E-03	5.872E-04	3.367E-04	2.089E-04	2.400E-04	6.060E-05	2.044E-05	9.288E-06	4.880E-06
ENE	1.273E-03	1.069E-03	5.385E-04	3.148E-04	1.987E-04	1.764E-04	4.447E-05	1.474E-05	6.861E-06	3.541E-06
E	2.235E-03	1.178E-03	5.464E-04	3.164E-04	1.996E-04	2.058E-04	5.187E-05	1.753E-05	7.816E-06	4.114E-06
ESE	1.213E-03	1.574E-03	8.259E-04	4.838E-04	3.051E-04	2.370E-04	5.956E-05	2.151E-05	1.022E-05	5.632E-06
SE	1.269E-03	2.772E-03	1.356E-03	7.206E-04	4.558E-04	1.654E-04	5.287E-05	1.821E-05	7.864E-06	3.889E-06
SSE	9.062E-03	5.157E-03	2.158E-03	1.116E-03	1.268E-03	4.093E-04	9.964E-05	3.479E-05	1.614E-05	8.674E-06
S	9.117E-03	5.704E-03	2.253E-03	1.180E-03	1.092E-03	4.349E-04	1.048E-04	3.567E-05	1.586E-05	8.194E-06
SSW	3.087E-03	2.158E-03	1.060E-03	9.297E-04	6.089E-04	2.921E-04	6.818E-05	2.075E-05	8.341E-06	4.024E-06
SW	3.016E-03	3.828E-03	1.392E-03	6.832E-04	4.096E-04	1.832E-04	3.979E-05	1.107E-05	4.276E-06	2.006E-06
WSW	1.327E-03	5.951E-03	1.851E-03	8.867E-04	5.057E-04	2.095E-04	5.562E-05	1.695E-05	7.007E-06	3.485E-06
W	7.036E-03	8.378E-03	2.613E-03	1.207E-03	6.862E-04	2.407E-04	6.462E-05	2.005E-05	8.130E-06	3.964E-06
WNW	2.227E-02	1.474E-02	4.486E-03	2.064E-03	1.137E-03	3.744E-04	9.592E-05	3.088E-05	1.322E-05	6.689E-06
NW	1.380E-02	1.948E-02	5.295E-03	2.439E-03	1.347E-03	4.583E-04	1.193E-04	4.118E-05	1.899E-05	1.007E-05
NNW	9.596E-03	7.935E-03	5.072E-03	3.439E-03	1.767E-03	5.862E-04	1.480E-04	5.142E-05	2.360E-05	1.253E-05

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	1.567E-02	3.539E-03	1.566E-03	8.683E-04	5.604E-04	2.377E-04	1.087E-04	4.992E-05	2.588E-05	1.585E-05
NNE	7.064E-03	1.854E-03	8.128E-04	4.745E-04	3.172E-04	3.811E-04	1.005E-04	3.716E-05	1.941E-05	1.214E-05
NE	3.859E-03	1.042E-03	4.174E-04	2.440E-04	1.553E-04	1.831E-04	4.811E-05	1.804E-05	9.590E-06	6.008E-06
ENE	1.088E-03	8.086E-04	3.822E-04	2.268E-04	1.468E-04	1.346E-04	3.536E-05	1.313E-05	7.177E-06	4.457E-06
E	2.235E-03	9.398E-04	3.895E-04	2.258E-04	1.456E-04	1.559E-04	4.090E-05	1.528E-05	7.964E-06	5.103E-06
ESE	1.178E-03	1.281E-03	5.997E-04	3.433E-04	2.191E-04	1.758E-04	4.603E-05	1.740E-05	8.987E-06	5.513E-06
SE	1.236E-03	2.324E-03	9.967E-04	5.114E-04	3.267E-04	1.246E-04	4.172E-05	1.636E-05	8.873E-06	5.499E-06
SSE	9.067E-03	4.413E-03	1.610E-03	7.934E-04	9.053E-04	3.053E-04	7.702E-05	2.816E-05	1.423E-05	8.570E-06
S	8.142E-03	4.531E-03	1.605E-03	8.442E-04	7.985E-04	3.297E-04	8.246E-05	3.072E-05	1.569E-05	9.608E-06
SSW	2.967E-03	1.648E-03	7.524E-04	6.725E-04	4.514E-04	2.247E-04	5.613E-05	2.101E-05	1.091E-05	6.806E-06
SW	2.677E-03	2.723E-03	1.009E-03	5.103E-04	3.107E-04	1.430E-04	3.527E-05	1.328E-05	7.100E-06	4.464E-06
WSW	1.232E-03	4.438E-03	1.318E-03	6.470E-04	3.778E-04	1.611E-04	4.544E-05	1.642E-05	8.519E-06	5.324E-06
W	6.454E-03	6.159E-03	1.861E-03	8.828E-04	5.130E-04	1.849E-04	5.318E-05	1.999E-05	1.037E-05	6.467E-06
WNW	1.193E-02	1.116E-02	3.192E-03	1.483E-03	8.339E-04	2.856E-04	7.626E-05	2.767E-05	1.419E-05	8.734E-06
NW	1.350E-02	1.553E-02	3.793E-03	1.735E-03	9.730E-04	3.444E-04	9.299E-05	3.437E-05	1.779E-05	1.089E-05
NNW	9.178E-03	6.143E-03	3.626E-03	2.441E-03	1.271E-03	4.414E-04	1.153E-04	4.286E-05	2.213E-05	1.366E-05

TABLE 21. GAMMA AND BETA AIR DOSES, JANUARY-DECEMBER 1996

COOPER NUCLEAR STATION JANUARY-DECEMBER 1996

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	3.448E-02	1.216E-02	5.956E-03	3.399E-03	2.154E-03	8.942E-04	3.894E-04	1.657E-04	7.704E-05	4.159E-05
NNE	1.642E-02	7.493E-03	3.783E-03	2.216E-03	1.454E-03	1.603E-03	4.015E-04	1.381E-04	6.239E-05	3.299E-05
NE	7.695E-03	3.428E-03	1.624E-03	9.608E-04	6.431E-04	8.075E-04	2.053E-04	6.854E-05	3.141E-05	1.628E-05
ENE	2.233E-03	2.246E-03	1.290E-03	7.343E-04	4.813E-04	5.949E-04	1.556E-04	5.395E-05	2.625E-05	1.387E-05
E	4.161E-03	2.803E-03	1.464E-03	8.306E-04	5.452E-04	6.526E-04	1.713E-04	5.914E-05	2.703E-05	1.512E-05
ESE	1.046E-02	6.197E-03	2.908E-03	1.681E-03	1.067E-03	9.018E-04	2.437E-04	9.021E-05	4.380E-05	2.431E-05
SE	1.395E-02	1.380E-02	6.200E-03	3.319E-03	1.987E-03	7.244E-04	2.292E-04	8.232E-05	3.754E-05	1.921E-05
SSE	3.230E-02	1.801E-02	8.044E-03	4.332E-03	4.830E-03	1.613E-03	3.871E-04	1.371E-04	6.441E-05	3.505E-05
S	3.492E-02	1.574E-02	7.483E-03	4.035E-03	3.666E-03	1.412E-03	3.411E-04	1.161E-04	5.156E-05	2.704E-05
SSW	7.431E-03	5.973E-03	3.053E-03	2.683E-03	1.740E-03	8.330E-04	1.925E-04	5.783E-05	2.320E-05	1.120E-05
SW	8.276E-03	1.150E-02	3.911E-03	1.907E-03	1.095E-03	4.674E-04	1.054E-04	3.079E-05	1.229E-05	5.830E-06
WSW	7.396E-03	1.880E-02	5.994E-03	2.774E-03	1.562E-03	6.069E-04	1.553E-04	4.850E-05	2.047E-05	1.023E-05
W	2.451E-02	2.195E-02	6.702E-03	3.145E-03	1.773E-03	5.912E-04	1.631E-04	5.130E-05	2.099E-05	1.029E-05
WNW	2.436E-02	4.511E-02	1.353E-02	5.979E-03	3.262E-03	1.062E-03	2.734E-04	9.117E-05	4.030E-05	2.081E-05
NW	2.619E-02	5.504E-02	1.620E-02	7.047E-03	3.871E-03	1.278E-03	3.299E-04	1.084E-04	4.781E-05	2.436E-05
NNW	3.079E-02	2.572E-02	1.414E-02	8.314E-03	4.544E-03	1.536E-03	3.906E-04	1.335E-04	6.045E-05	3.203E-05

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	3.335E-02	1.201E-02	4.360E-03	2.418E-03	1.546E-03	6.702E-04	3.033E-04	1.376E-04	7.123E-05	4.383E-05
NNE	1.543E-02	5.861E-03	2.705E-03	1.586E-03	1.062E-03	1.217E-03	3.163E-04	1.184E-04	6.137E-05	3.807E-05
NE	7.100E-03	2.600E-03	1.155E-03	6.951E-04	4.742E-04	6.167E-04	1.632E-04	6.080E-05	3.255E-05	2.032E-05
ENE	1.937E-03	1.676E-03	9.174E-04	5.321E-04	3.569E-04	4.535E-04	1.233E-04	4.717E-05	2.652E-05	1.659E-05
E	3.868E-03	2.207E-03	1.052E-03	5.939E-04	3.973E-04	4.957E-04	1.352E-04	5.135E-05	2.715E-05	1.791E-05
ESE	1.062E-02	5.321E-03	2.162E-03	1.200E-03	7.618E-04	6.736E-04	1.888E-04	7.319E-05	3.854E-05	2.385E-05
SE	1.426E-02	1.229E-02	4.771E-03	2.390E-03	1.414E-03	5.375E-04	1.783E-04	6.909E-05	3.642E-05	2.211E-05
SSE	3.254E-02	1.564E-02	6.184E-03	3.132E-03	3.444E-03	1.195E-03	2.992E-04	1.103E-04	5.588E-05	3.370E-05
S	3.386E-02	1.227E-02	5.420E-03	2.869E-03	2.655E-03	1.068E-03	2.678E-04	9.899E-05	5.019E-05	3.078E-05
SSW	6.673E-03	4.529E-03	2.171E-03	1.941E-03	1.294E-03	6.428E-04	1.596E-04	5.933E-05	3.084E-05	1.926E-05
SW	7.520E-03	8.376E-03	2.803E-03	1.403E-03	8.240E-04	3.624E-04	8.920E-05	3.289E-05	1.729E-05	1.076E-05
WSW	6.978E-03	1.403E-02	4.263E-03	2.007E-03	1.157E-03	4.653E-04	1.253E-04	4.501E-05	2.314E-05	1.429E-05
W	2.312E-02	1.633E-02	4.773E-03	2.287E-03	1.320E-03	4.552E-04	1.333E-04	4.980E-05	2.568E-05	1.596E-05
WNW	2.357E-02	3.554E-02	9.782E-03	4.271E-03	2.374E-03	8.062E-04	2.151E-04	7.818E-05	3.975E-05	2.420E-05
NW	2.483E-02	4.322E-02	1.171E-02	5.027E-03	2.810E-03	9.697E-04	2.608E-04	9.473E-05	4.910E-05	3.016E-05
NNW	2.955E-02	2.153E-02	1.026E-02	5.923E-03	3.290E-03	1.163E-03	3.063E-04	1.134E-04	5.876E-05	3.665E-05

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)
- 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 22. Values of Parameters Used to Make Dose Estimates Resulting From Liquid Discharges at Cooper Nuclear Station January-December 1996

Parameter		Values Assigned	
		Individual	Population
Cooling flow rate (cfs) *	Q1	1009.40	1009.40
(Average daily value)	Q2	1202.39	1202.39
	Q3	1454.44	1454.44
	Q4	1063.64	1063.64
Dilution factor*	Q1	1	36.91
	Q2	1	57.94
	Q3	1	48.94
	Q4	1	53.41
Holding time:			
Fish		24 hr ***	168 hr ***
Drinking water		12 hr ***	22.4 hr **
Shoreline exposure		0 hr ***	22.4 hr **
Swimming		0 hr ***	22.4 hr **
Boating		0 hr ***	22.4 hr **

* Q1, Q2, Q3, and Q4 represent first, second, third and fourth quarter station data for 1996, respectively.

** Based on an average Missouri River water flow of 5.5 ft/sec, 84 miles down the river.

*** Values from Regulatory Guide 1.109, Revision 1.

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