



Nebraska Public Power District

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May 6, 1996

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

Subject: Annual Radioactive Materials Release Report and Annual Radiological Environmental
Operating Report - Cooper Nuclear Station
NRC Docket No. 50-298

The Nebraska Public Power District submitted the Cooper Nuclear Station Annual Radioactive Materials Release Report and the Annual Radiological Environmental Operating Report for 1995 to the Document Control Desk on April 30, 1996. Because of time constraints, both copies were sent unbound. Enclosed with this letter are bound copies of both reports for your convenience.

Joe L. Citta, Jr.
Environmental Manager

JLC/hch-g
Enc. (2)

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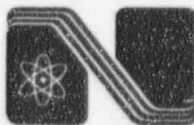
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Nebraska Public Power District
Cooper Nuclear Station

Annual Radiological Environmental Operating Report

Environmental Radiation Monitoring Program
January 1, 1995 - December 31, 1995

USNRC Docket Number 50-298



Prepared by
**TELEDYNE
ISOTOPES**

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Nebraska Public Power District

COOPER NUCLEAR STATION
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NLS960077
April 29, 1996

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

Subject: Annual Radiological Environmental Report
Cooper Nuclear Station, NRC Docket No. 50-298, License No. DPR-46

Gentlemen:

In accordance with Specification 6.5.1.E of the Cooper Nuclear Station Technical Specifications, the Nebraska Public Power District submits the Cooper Nuclear Station Annual Radiological Environmental Report for the period of January 1, 1995 through December 31, 1995.

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.

Sincerely,

John H. Mueller
Site Manager

/dnm
Attachments

cc: Senior Project Manager w/attachment
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector w/attachment
USNRC - Cooper Nuclear Station

Regional Administrator w/attachment
USNRC - Region IV

NPG Distribution w/o attachment

LIST OF NRC COMMITMENTS	ATTACHMENT 3
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3

Correspondence No: NLS960077

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

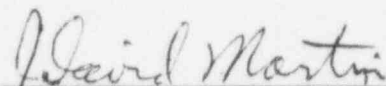
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REPORT TO
NEBRASKA PUBLIC POWER DISTRICT
COLUMBUS, NEBRASKA
RADIATION ENVIRONMENTAL MONITORING PROGRAM
COOPER NUCLEAR STATION
NEMAHA COUNTY, NEBRASKA

ANNUAL REPORT
JANUARY 1 TO DECEMBER 31, 1995

PREPARED BY
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REPORT APPROVED BY:



J. DAVID MARTIN, MANAGER
ENVIRONMENTAL ANALYSIS DEPARTMENT

PREFACE

This report covers the period of January 1 through December 31, 1995. All sample collections were made by a contractor and personnel of the Nebraska Public Power District. Analyses were performed and reports of analyses were prepared by Teledyne Brown Engineering - Environmental Services and forwarded to Nebraska Public Power District.

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I INTRODUCTION

This report contains a complete tabulation of data collected during the period January through December 1995, for the operational Radiological Environmental Monitoring Program performed for the Cooper Nuclear Station (CNS) of the Nebraska Public Power District (NPPD) by Teledyne Brown Engineering - Environmental Services.

Cooper Nuclear Station is located in Nemaha County in the southeast corner of Nebraska on the Missouri River. A portion of the site extends into Missouri. The reactor is a 778 megawatt boiling water reactor. Initial criticality was attained on February 21, 1974. The reactor reached 50% power on June 25, 1974 and 100% power on November 20, 1974.

Radiological environmental monitoring began in 1971 before the plant became operational and has continued to the present. The program monitors radiation levels in air, terrestrial and aquatic environments. Most samples are collected by NPPD personnel. All are shipped for analysis to a contractor's laboratory where there exists special facilities required for measurements of extremely low levels of radioactivity. From 1971 through 1976 the contractor was Teledyne Isotopes, Westwood, New Jersey. NALCO Environmental Sciences assumed responsibility for the analyses effective January 1, 1977.

On November 1, 1978 Hazelton Environmental Sciences Corporation (HESC) assumed responsibility for the program. Prior to November 1, 1978 Hazelton Environmental Sciences operated as NALCO Environmental Sciences. Teledyne Isotopes (now trading as Teledyne Brown Engineering - Environmental Services) again assumed responsibility for the analyses effective January 1, 1979 through December 31, 1995.

II. SUMMARY

Presented in this report are summaries and discussions of the data generated for the Radiological Environmental Monitoring Program (REMP) for the Cooper Nuclear Station (CNS) of the Nebraska Public Power District (NPPD) for 1995.

Part V, Table 3 presents the yearly summary of the program with the total number of samples of each type analyzed, the yearly average for all samples, the number of detections per total number of samples, the station with the highest average, the average of the control station, and the inclusive dates of the analyses.

Part VI is a discussion of each type of sample analyzed and its impact, if any, on the environment. Included also is a graph of the isotopes of interest since 1977 and the statistical results for each quarter of the year. This is followed by a complete tabulation of the data by sample type and station number.

The 1995 radiological environmental measurements for CNS indicates that there has been no residual fallout resulting from the explosion and fire at the Chernobyl Reactor in the Soviet Union which occurred on April 26, 1986. It may be concluded from all measurements taken that the operations of CNS had no detectable impact on the environment in the vicinity of CNS.

III. SAMPLING AND ANALYSES PROGRAM, STATIONS AND MAPS

The 1995 sampling and analysis program is described in Table 1. The Teledyne Brown Engineering - Environmental Services has a comprehensive quality assurance/quality control program designed to assure the reliability of data obtained. The results for the 1995 Intercomparison Program conducted by the EPA Environmental Monitoring Systems Laboratory in Las Vegas, Nevada, are contained in Appendix B.

Sampling locations are summarized in Table 2. The type or status of each location and its distance and direction from the reactor elevated release point are specified. A map of locations follows (Figure 1). Complete descriptions of active sampling locations are given in Appendix G.

Results of the annual land use census for 1995 are summarized in Appendix A. There were no milk animals found within three miles of CNS in 1995 and no evidence of potable water use from the river. The nearest garden to CNS is in sector L, 1.3 miles from CNS. Gardens were found in 9 sectors during 1995 while gardens were found in 11 sectors during 1994. The nearest resident to CNS is in sector Q, 0.9 miles from CNS.

All of the required 1995 environmental monitoring, including sampling and analysis, was conducted as specified in Table 3.21.F.1 of the CNS Technical Specifications, except as noted below:

Station	Pathway	Sample	Collection Period	Reason
01	Airborne	Air Particulate & Charcoal Filter	04/25-05/02	Possible low air volume
01	Airborne	Air Particulate & Charcoal Filter	10/31-11/07	Pump not running
03	Airborne	Air Particulate & Charcoal Filter	05/23-05/30	Area flooded
03	Airborne	Air Particulate & Charcoal Filter	05/30-06/06	Area flooded
03	Airborne	Air Particulate & Charcoal Filter	06/06-06/13	Low air volume
04	Airborne	Air Particulate & Charcoal Filter	02/21-02/28	Vacuum failure
05	Airborne	Air Particulate only (Charcoal Filter O.K.)	07/18-07/25	Filter assembly malfunction
06	Airborne	Air Particulate & Charcoal Filter	01/24-01/31	Sampler separated

Station	Pathway	Sample	Collection Period	Reason
08	Airborne	Air Particulate & Charcoal Filter	07/25-08/01	Low air volume
09	Airborne	Air Particulate & Charcoal Filter	07/18-07/25	Pump not running
09	Airborne	Air Particulate & Charcoal Filter	07/25-08/01	Pump not running
28	Ingestion	Vegetation - Broadleaf	05/16-10/10	Replaced by Station 96 which was predicted to have the highest average ground-level D/Q, based on meteorological data
35	Ingestion	Fish	10/12	Bottom-feeder not available
44	Ingestion	Vegetation - Broadleaf	05/16-10/10	Replaced by Station 101 that was predicted to be the site of least prevalent wind direction, based on meteorological data
59	Gamma Exposure	TLD	01/05-04/12	Found on ground
66	Gamma Exposure	TLD	04/12-07/12	Missing
67	Gamma Exposure	TLD	04/12-07/12	Found on ground
67	Gamma Exposure	TLD	10/06-12/26	Found on ground
99	Ingestion	Milk (Nearest)	07/19-12/05	Replaced by Station 61 after it was determined that milk production had resumed at that dairy

The CNS Offsite Dose Assessment Manual (ODAM) was not promptly updated to reflect the changes in status of Sample Stations 28, 44, and 99. However, all applicable changes to these locations and their respective sample types were subsequently reviewed and accepted by the Station Operations Review Committee (SORC) on March 6, 1996.

TABLE 1

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
ENVIRONMENTAL RADIATION SURVEILLANCE PROGRAM

SAMPLING SCHEDULE AND ANALYSIS

ONCE PER 7 DAYS

<u>Sample Type</u>	<u>Station Nos.</u>	<u>Analyses</u>
Airborne - Particulate	1 - 10	Gross alpha, beta, Gamma isotopic on quarterly composite of each station and on each sample in which gross beta activity is > 10 times the yearly mean of control samples.
Airborne - Iodine	1-10	I-131

ONCE PER 15 DAYS

<u>Sample Type</u>	<u>Station Nos.</u>	<u>Analyses</u>
Milk - Nearest Producer (peak pasture only)	61, 99	I-131 (low level) Gamma isotopic Sr-89, Sr-90, Elem. Ca. on monthly composite

ONCE PER 31 DAYS

<u>Sample Type</u>	<u>Station Nos.</u>	<u>Analyses</u>
River Water	12,28	Gross alpha - sus and dis Gross beta - sus and dis, Sr-89, Sr-90, Gamma isotopic Tritium on quarterly composite

ONCE PER 31 DAYS

<u>Sample Type</u>	<u>Station Nos.</u>	<u>Analyses</u>
Milk - Nearest Producer (except peak pasture season)	61, 99	I-131 (low level) Sr-89, Sr-90 Elem. Ca Gamma isotopic
Food Products - Broad- leaf Vegetation (when available)	35, 96, 101	I-131 Gamma isotopic

ONCE PER 92 DAYS

<u>Sample Type</u>	<u>Station Nos.</u>	<u>Analyses</u>
Background Radiation	1 - 10, 20, 44, 56, 58, 59, 66, 67, 71, 79 - 91, 94	TLD Readout (gamma dose)
Groundwater	11, 47	Gross alpha, beta Gamma isotopic Tritium
Milk - Commercial and Other Milk Producers	42, 100	I-131 (low level) Sr-89, Sr-90 Elem. Ca Gamma isotopic

2 TIMES/YEAR

<u>Sample Type</u>	<u>Station Nos.</u>	<u>Analyses</u>
Fish (Summer and Fall)	28, 35	Gross beta Sr-89, Sr-90 Gamma isotopic
Shoreline Sediment	28	Gamma isotopic

TABLE 2

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
BROWNVILLE, NEBRASKA

DISTANCE AND DIRECTION FROM THE ELEVATED RELEASE POINT (ERP)
TO THE SAMPLE STATION LOCATIONS

STATION NUMBER	DISTANCE ^a (MILES)	DIRECTION ^a (DEGREES)	CLASSIFICATION ^b
1	0.10	225	IND
2	0.75	225	IND
3	2.5	338	IND
4	3.0	43	IND
5	3.5	102	IND
6	3.0	165	IND
7	2.5	230	IND
8	2.5	260	IND
9	7.3	335	IND
10	10.0	160	IND
11	0.15	225	IND
12	0.10	360	CON
20	0.96	315	IND
28	1.8	150	IND
35	2.0	350	IND AND CON
42	12.9	156	IND
44	10.3	270	CON
47	25.8	154	IND
56	1.9	118	IND
58	1.1	219	IND
59	1.0	189	IND
61	3.5	326	IND
66	4.5	200	IND
67	4.8	325	IND
71	4.3	71	IND
79	0.85	299	IND
80	0.75	284	IND
81	0.80	265	IND
82	0.80	176	IND
83	4.4	189	IND
84	4.4	297	IND
85	3.1	3	IND
86	4.6	16	IND
87	1.75	20	IND
88	1.75	63	IND

STATION NUMBER	DISTANCE ^a (MILES)	DIRECTION ^a (DEGREES)	CLASSIFICATION ^b
89	2.0	86	IND
90	2.25	134	IND
91	6.9	54	IND
94	3.6	108	IND
96	1.25	334	IND
99	10.25	189	IND
100	11.5	197	IND
101	13.3	73	CON

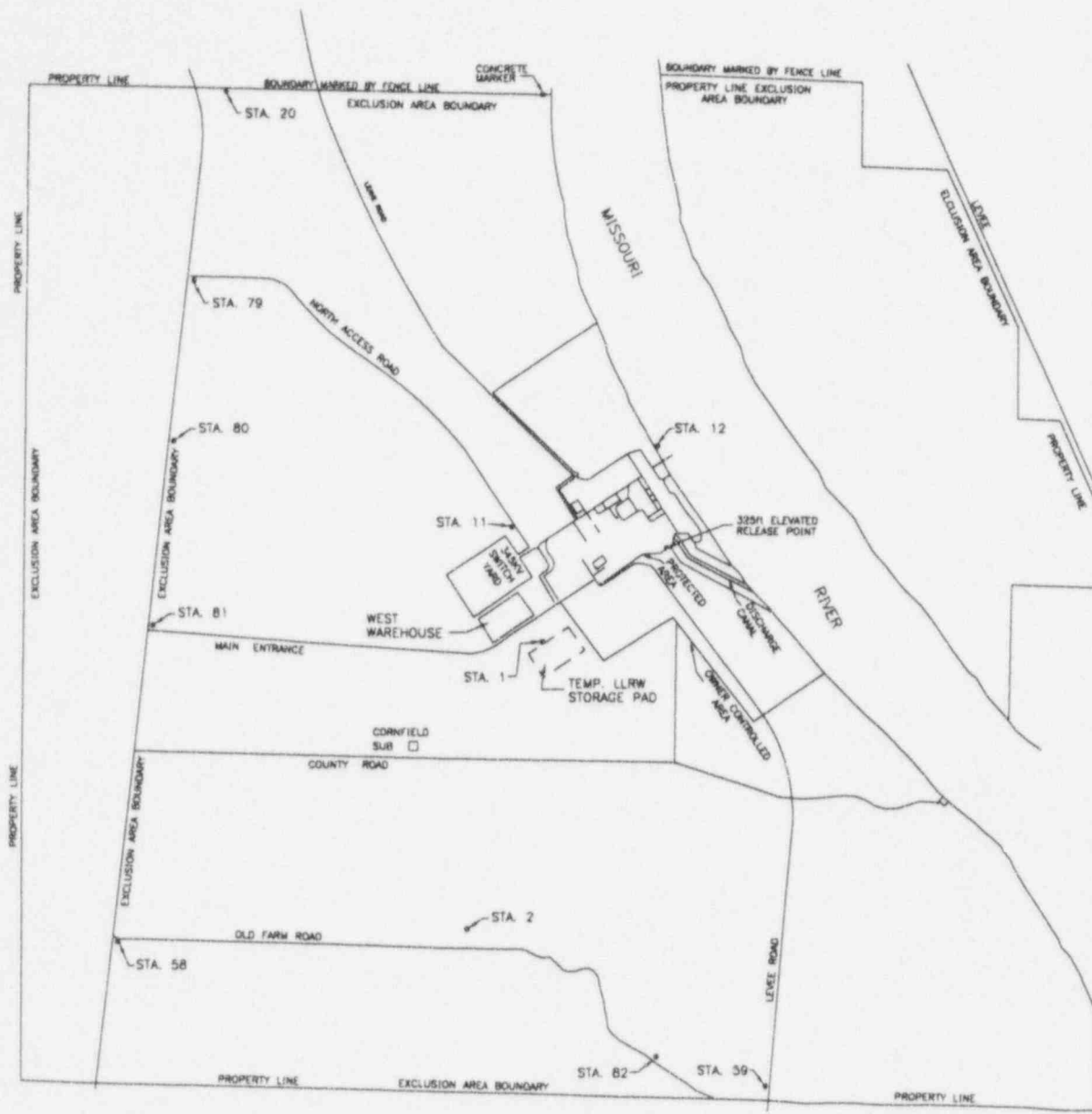
a Distance and direction are specified with respect to the CNS reactor Elevated Release Point.

b Classification codes: IND = indicator; CON = control.



NEBRASKA

MISSOURI



NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION

SITE
SAMPLING STATION
LOCATIONS MAP

IV. DISCUSSION

A. Program Objectives and Data Interpretation

The objective of the monitoring program is to detect and assess the impact of possible releases to the environs of radionuclides from the operations of the Cooper Nuclear Station. This objective requires measurements of low levels of radioactivity equal to or lower than pre-determined limits of detection. In addition the source of the environmental radiation must be established. Sources of environmental radiation include:

- (1) Natural background radiation from cosmic rays (Be-7).
- (2) Terrestrial, primordial radionuclides from the environment (K-40, Ra-226, Th-228).
- (3) Fallout from atmospheric nuclear tests such as the September 1977 detonation by the Peoples' Republic of China and the atmospheric weapons test of October 16, 1980 (fission products and fusion products).
- (4) Releases from nuclear power plants such as CNS (fission products and neutron activation products).
- (5) Fallout from the Chernobyl Nuclear Reactor Accident.

Radiation levels measured in the vicinity of an operating power station are compared with preoperational measurements at the same locations to distinguish power plant effects from other sources. Also, results of the monitoring program are related to events known to cause elevated levels of radiation in the environment, e.g., atmospheric nuclear detonations or abnormal plant releases.

B. Atmospheric Nuclear Tests

Three atmospheric nuclear detonations in the People's Republic of China influenced program results significantly in late 1976 and in 1977. Two of these detonations occurred in late 1976 (September 26 and November 17) and one in late 1977 (September 17). As a consequence of these tests elevated activities of gross beta in air particulate filters and I-131 in milk were observed throughout most of the United States.

No atmospheric nuclear tests have been conducted since 1977, thus no short-lived fission products were detected in air particulate samples. Also no I-131 was detected from radiogases from any sources.

On April 26, 1986 the fire and explosion of Chernobyl Reactor No. 4 in the Soviet Union resulted in the release of fission products to the atmosphere and worldwide fallout. Following the explosion, elevated levels of gross beta activities in air particulates and I-131 in charcoal filters and milk samples were measured. Additionally, in 1986, Cs-137 and the short-lived isotopes I-131, Ru-106, and Cs-134 were detected in broadleaf vegetation. Similar results occurred in other areas of the United States and the entire Northern Hemisphere.

V. RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM TABLES

Presented in Table 3 are the radiological environmental monitoring program summaries (REMPS) generated from the reports of analyses performed during 1995 for the NPPD sampling and analyses program. The REMPS tables conform to the requirements of Table 1 in Regulatory Guide 4.8 (Reference 6).

The average activity level for all samples collected for the year for each sample type are summarized in this table. The mean, range and fraction of detections to total samples assayed are presented. The station location and station number with the highest annual mean is also tabulated. If a control station is specified the comparable results of the control are listed.

From the REMPS table it is possible to determine the total number of each type of sample analyzed and the average activity of all samples from all stations of each nuclide. If there were no positive detections the maximum of the lowest levels of detection is listed. The station having the highest level of activity is specified. From this data it is possible to determine any high levels of activity and the source. The dose impact on the population can thus be evaluated.

TABLE 3
RADIOLOGICAL ENVIRONMENTAL
MONITORING PROGRAM SUMMARIES
(REMP)
1995

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - AIRBORNE SAMPLE - AIR PARTICULATE FILTERS UNITS - PCI/CU.M.		COMFILATION - ANNUAL SUMMARY CONTROL -		NEBRASKA PUBLIC POWER DISTRICT COOPER NUCLEAR STATION	
ANALYSIS	NO LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE		LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE	
		FRACTION		STATION FRACTION STATION DESCRIPTION	
GR-A	513 0.00200	0.00213		0.00260	
		0.0008- 0.0067		4 052/052 0.0009- 0.0059	
		512/513		STATION 4 - 3.0 MI. 43 DEG. IND.	
GR-B	513 0.00300	0.0259		0.0335	
		0.00370- 0.11000		04 052/052 0.0084- 0.1100	
		513/513		STATION 4 - 3.0 MI. 43 DEG. IND.	
				CONTROL LOCATION NON- REPORTING PERIOD	
				MEAN X E-00 ROUTINE	
				RANGE	
				FRACTION	
				0 01/03/95-01/02/96	
				0 01/03/95-01/02/96	

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - AIRBORNE
 SAMPLE - CHARCOAL FILTERS
 UNITS - PCI/CU.M.

COMPILATION - ANNUAL SUMMARY
 CONTROL -

NEBRASKA PUBLIC POWER DISTRICT
 COOPER NUCLEAR STATION

ANALYSIS	NO LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE FRACTION	LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE STATION FRACTION STATION DESCRIPTION	CONTROL LOCATION MEAN X E-00 RANGE FRACTION	NON- ROUTINE	REPORTING PERIOD
I-131	515	LT 0.09000 LT 0.0100- LT 0.09000 000/515			0	01/03/95-01/02/96

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - AIRBORNE SAMPLE - COMPOSITE OF AIR PARTICULATE FILTERS UNITS - PCI/CU.M.			COMPILATION - ANNUAL SUMMARY CONTROL -		NEBRASKA PUBLIC POWER DISTRICT COOPER NUCLEAR STATION	
ANALYSIS	NO LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE		LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE		REPORTING PERIOD
		STATION FRACTION STATION DESCRIPTION		CONTROL LOCATION MEAN X E-00 RANGE		
		FRACTION	FRACTION	FRACTION	FRACTION	
BE-7	40 0.05000	0.13400 0.0863- 040/040	04 004/004 STATION 04 - 3.0 MI. 43 DEG. IND.	0.1563 0.0942- 0.2200	0 01/03/95-01/02/96	
K-40	40 0.06000	0.0284 0.0077- 0.0495 009/040	09 002/004 0.04890- 0.04950 STATION 09 - 7.3 MI. 335 DEG. IND.	0.0492	0 01/03/95-01/02/96	
I-131	40	LT 0.2000 LT 0.0600- LT 0.2000 000/040			0 01/03/95-01/02/96	
CS-137	40 0.00300	LT 0.00090 LT 0.00030- LT 0.00090 000/040				

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - INGESTION
SAMPLE - FISH
UNITS - PCI/GM WET

COMPILATION - ANNUAL SUMMARY
CONTROL -

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION

ANALYSIS	NO	LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE FRACTION	LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE STATION FRACTION STATION DESCRIPTION	CONTROL LOCATION MEAN X E-00 RANGE FRACTION	NON- ROUTINE	REPORTING PERIOD
GR-B	9	0.250	4.8 4.5- 5.2 09/09	28 005/005 4.6- 5.2 STATION 28 - 1.8 MI. 150 DEG. IND.		0	07/25/95-10/12/95
SR-89	9	0.0300	LT 0.0100 LT 0.00300- LT 0.0100 000/09			0	07/25/95-10/12/95
SR-90	9	0.0300	0.0085 0.0085- 0.0085 001/09	35 001/004 0.0085- 0.0085 STATION 35 - 2.0 MI. 350 DEG. IND.		0	07/25/95-10/12/95
K-40	9	0.4700	3.08 2.15- 4.18 09/09	28 005/005 2.98- 4.18 STATION 28 - 1.8 MI. 150 DEG. IND.		0	07/25/95-10/12/95
I-131	9	0.03100	LT 0.0500 LT 0.03000- LT 0.0500 000/09			0	07/25/95-10/12/95
CS-137	9	0.03100	LT 0.02000 LT 0.01000- LT 0.02000 000/09			0	07/25/95-10/12/95

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - INGESTION SAMPLE - MILK - NEAREST UNITS - PCI/LITER			COMPILATION - ANNUAL SUMMARY CONTROL -		NEBRASKA PUBLIC POWER DISTRICT COOPER NUCLEAR STATION		
ANALYSIS	NO LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE FRACTION	LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE STATION FRACTION STATION DESCRIPTION	CONTROL LOCATION MEAN X E-00 RANGE FRACTION	NON- ROUTINE	REPORTING PERIOD	
CA (mg/l)	17	1.8 1.70- 2.1 017/017	99 08/08 1.7- 2.1		0	01/03/95-12/05/95	
I-131	26	LT 0.4 LT 0.100- LT 0.4 000/026			0	01/03/95-12/05/95	
SR-89	17	LT 2.0 LT 0.5- LT 2.0 000/017			0	01/03/95-12/05/95	
SR-90	17	1.2 0.73- 2.0 017/017	99 08/08 1.3 0.73- 2.0		0	01/03/95-12/05/95	
K-40	26	1310. 1060.- 1510. 026/026	99 011/011 1370. 1270.- 1470.		0	01/03/95-12/05/95	
I-131	26	LT 9.000 LT 3.00- LT 9.00 000/026			0	01/03/95-12/05/95	
CS-137	26	LT 5.00 LT 3.00- LT 5.00 000/026			0	01/03/95-12/05/95	

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - INGESTION SAMPLE - MILK OTHER PRODUCERS UNITS - PCI/LITER		ANALYSIS NO LIMIT OF DETECTION MEAN X E-00		ALL INDICATOR SAMPLES MEAN X E-00 RANGE		LOCATION WITH HIGHEST MEAN STATION FRACTION STATION DESCRIPTION		CONTROL LOCATION MEAN X E-00 RANGE FRACTION		NEBRASKA PUBLIC POWER DISTRICT COOPER NUCLEAR STATION	
PATHWAY - INGESTION SAMPLE - MILK OTHER PRODUCERS UNITS - PCI/LITER		ANALYSIS NO LIMIT OF DETECTION MEAN X E-00		ALL INDICATOR SAMPLES MEAN X E-00 RANGE		LOCATION WITH HIGHEST MEAN STATION FRACTION STATION DESCRIPTION		CONTROL LOCATION MEAN X E-00 RANGE FRACTION		NEBRASKA PUBLIC POWER DISTRICT COOPER NUCLEAR STATION	
CA (mg/l)	8			1.7- 008/008	1.8 1.9	100 004/004 STATION 100 - 11.5 MI. 197 DEG. IND	1.7- 1.8	0	01/17/95-10/24/95		
I-131	8	0.780		LT 0.100- 000/008	LT 0.200 0.200						
SR-89	8	2.0		LT 0.6- 000/008	LT 0.7 0.7						
SR-90	8	1.4		1.4- 008/008	1.5 1.7	100 004/004 STATION 100 - 11.5 MI. 197 DEG. IND	1.5- 1.6 1.7	0	01/17/95-10/24/95		
K-40	8	140.0		1240.- 008/008	1360. 1420.	100 004/004 STATION 100 - 11.5 MI. 197 DEG. IND	1380. 1320.- 1420.	0	01/17/95-10/24/95		
I-131	8	0.7800		LT 4.00- 000/008	LT 08.000 08.00						
CS-137	8	9.00		LT 4.00- 000/008	LT 5.00 5.00						

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - AQUATIC SAMPLE - SHORELINE SEDIMENT UNITS - PCI/GM DRY			COMPILATION - ANNUAL SUMMARY CONTROL -			NEBRASKA PUBLIC POWER DISTRICT COOPER NUCLEAR STATION		
ANALYSIS	NO LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE FRACTION	LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE STATION FRACTION STATION DESCRIPTION	CONTROL LOCATION MEAN X E-00 RANGE FRACTION	NON-ROUTINE	REPORTING PERIOD		
BE-7	3 0.2300	0.414- 001/003	0.414 0.414 STATION 28 - 1.8 MI. 150 DEG. IND.	0	0	05/02/95-10/31/95		
K-40	3 0.4700	17.9- 003/003	17.9 17.7 18.3 STATION 28 - 1.8 MI. 150 DEG. IND.	0	0	05/02/95-10/31/95		
MN-54	3 0.03100	0.0096- 003/003	0.0111 0.0132 STATION 28 - 1.8 MI. 150 DEG. IND.	0	0	05/02/95-10/31/95		
I-131	3 0.03100	LT 0.0300 0.0100- LT 0.0300 000/003		0	0	05/02/95-10/31/95		
CS-137	3 0.03100	0.0573- 003/003	0.0649 0.0996 STATION 28 - 1.8 MI. 150 DEG. IND.	0	0	05/02/95-10/31/95		
CE-141	3 0.04700	LT 0.0200 0.0100- 000/003		0	0	05/02/95-10/31/95		
RA-226	3 0.1100	1.80- 003/003	1.89 2.04 STATION 28 - 1.8 MI. 150 DEG. IND.	0	0	05/02/95-10/31/95		
TH-228	3 0.1100	0.9820 002/003	0.9910 1.0000 STATION 28 - 1.8 MI. 150 DEG. IND.	0	0	05/02/95-10/31/95		

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - GAMMA EXPOSURE
 SAMPLE - ENVIRONMENTAL TLD
 UNITS - mR

COMPILATION - ANNUAL SUMMARY
 CONTROL -

NEBRASKA PUBLIC POWER DISTRICT
 COOPER NUCLEAR STATION

ANALYSIS	NO	LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE FRACTION	LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE STATION FRACTION STATION DESCRIPTION	CONTROL LOCATION MEAN X E-00 RANGE FRACTION	NON- ROUTINE	REPORTING PERIOD
TLD	127	2mR					
Total Exposure/year			65.7 mR 55.4- 73.1 127/127	56.8 mR 66 004/004 STATION 66 - 4.5 MI. 200 DEG. IND.	72.1 44 004/004 STATION 44 - 10.25 MI. 270 DEG. CON.	0	01/05/95-12/26/95
Average Exposure/ quarter			16.6 mR 14- 19 032/032	18.9mR 18.4- 19.5 66 004/004 STATION 66 - 4.5 MI. 200 DEG. IND.	18.0 mR 16.6- 19.5 44 004/004 STATION 44 - 10.25 MI. 270 DEG. CON.	0	01/05/95-12/26/95

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - INGESTION SAMPLE - BROADLEAF TERRESTRIAL VEGETATION UNITS - PCI/GM WET			COMPILATION - ANNUAL SUMMARY CONTROL - STATION 44 - 10.3 MI. 270 DEG. CON.			NEBRASKA PUBLIC POWER DISTRICT COOPER NUCLEAR STATION		
ANALYSIS	NO LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE		LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE		CONTROL LOCATION MEAN X E-00 RANGE		NON-ROUTINE REPORTING PERIOD
		FRACTION		STATION DESCRIPTION		FRACTION		
I-131	60 0.0500	LT 0.01	LT 0.01					0 05/16/95-10/10/95
		000/060						
BE-7	60 1.20	1.97	4.27	101	020/020 0.587- 4.20			0 05/16/95-10/10/95
		0.354- 060/060		STATION 101 - 13.3 MI. 73 DEG. CON.				
K-40	60 0.9300	6.08	11.6	101	020/020 2.79- 9.88			0 05/16/95-10/10/95
		2.65- 006/060		STATION 101 - 13.3 MI. 73 DEG. CON.				
I-131	60 0.05000	LT 0.0800	LT 0.0800					0 05/16/95-10/10/95
		LT 0.01- 000/060						
CS-137	60 0.1600	0.0272	0.0272	101	001/020 0.0272- 0.0272			0 05/16/95-10/10/95
		0.0272 001/060		STATION 101 - 13.3 MI. 73 DEG. CON.				
RA-226	60 0.8000	LT 0.800	LT 0.800					0 05/16/95-10/10/95
		LT 0.0100- 000/060						
TH-228	60 0.4700	0.103	0.194	96	004/020 0.0714- 0.194			0 05/16/95-10/10/95
		0.0290- 008/060		STATION 96 - 1.25 MI. 334 DEG. IND.				

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - WATERBORNE
SAMPLE - WATER - GROUND
UNITS - PCI/LITER

COMPILATION - ANNUAL SUMMARY
CONTROL -

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION

ANALYSIS	NO	LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE FRACTION	LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE STATION FRACTION STATION DESCRIPTION	CONTROL LOCATION MEAN X E-00 RANGE FRACTION	NON- ROUTINE	REPORTING PERIOD
GR-A	8	4.0	7.9 7.9 7.9 001/008	47 001/004 7.9 7.9 STATION 47 - 25.8 MI. 154 DEG. IND.		0	01/24/95-10/25/95
GR-B	8	1.8	8.4 6.3- 11 008/008	11 004/004 7.6- 9.5 STATION 11 - 0.15 MI. 225 DEG. IND.		0	01/24/95-10/25/95
I-131	8	9.00	LT 7.00 LT 4.00- LT 7.00 000/008			0	01/24/95-10/25/95
CS-137	8	9.00	LT 5.00 LT 3.00- LT 5.00 000/008			0	01/24/95-10/25/95
H-3	8	140.	LT 100. LT 100.- 100. 000/008			0	01/24/95-10/25/95

TABLE 3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

PATHWAY - WATERBORNE
SAMPLE - WATER - RIVER
UNITS - PCI/LITER

COMPILATION - ANNUAL SUMMARY
CONTROL - STATION 12 - 0.1 MI. 360 DEG. CON.

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION

ANALYSIS	NO	LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE FRACTION	LOCATION WITH HIGHEST MEAN MEAN X E-00 RANGE STATION FRACTION STATION DESCRIPTION	CONTROL LOCATION MEAN X E-00 RANGE FRACTION	NON- ROUTINE	REPORTING PERIOD
GR-A DIS	24	4.0	4.0 2.5- 6.1 008/024	12 005/012 4.1 5.4 STATION 12 - 0.10 MI. 360 DEG. CON.	2.9- 5.4 005/012	0	01/03/95-12/05/95
GR-A SUS	24	4.0	2.2 0.65- 6.5 018/024	12 010/012 2.3 6.5 STATION 12 - 0.10 MI. 360 DEG. CON.	0.73- 6.5 010/012	0	01/03/95-12/05/95
GR-B DIS	24	1.8	11.0 7.6- 14.0 024/024	12 012/012 11.0 14.0 STATION 12 - 0.10 MI. 360 DEG. CON.	8.7- 14.0 012/012	0	01/03/95-12/05/95
GR-B SUS	24	1.8	5.9 1.6- 15.0 022/024	28 011/012 5.9 15.0 STATION 28 - 1.8 MI. 150 DEG. IND.	2.1- 12.0 011/012	0	01/03/95-12/05/95
SR-89	24	1.1	LT 2.0 LT 0.3- LT 2.0 000/024		LT 2.0 LT 0.300- LT 2.0 000/012	0	01/03/95-12/05/95
SR-90	24	0.930	LT 0.900 LT 0.200 LT 0.900 000/024			0	01/03/95-12/05/95
K-40	24	140.0	LT 100 LT 50- LT 100 000/024		LT 100 LT 50 LT 100 000/012	0	01/03/95-12/05/95
I-131	24	9.00	LT 9.0 LT 3.0- LT 9.0 000/024		LT 9.0 LT 3.0- LT 9.0 000/012	0	01/03/95-12/05/95
CS-137	24	9.00	LT 5.0 LT 3.0- LT 5.0 000/024		LT 4.0 LT 3.0- LT 4.0 000/012	0	01/03/95-12/05/95
H-3	8	140.	LT 100. LT 100. LT 100 000/008			0	01/03/95-12/05/95

VI.

DISCUSSION, IMPACT ON THE ENVIRONMENT

GRAPHS OF RESULTS FROM 1977 - 1995

AND

STATISTICAL TABLES

FOR

EACH QUARTER

A and B. AIR PARTICULATE SAMPLES - GROSS BETA AND GROSS ALPHA

(See Tables A-1 - A-4, B-1 - B-4)

STATIONS 01 to 10

Air particulates were collected on membrane filters at ten locations (01-10). The filters were changed weekly and analyzed for gross beta and gross alpha activities. Quarterly composites are analyzed for gamma emitting isotopes.

The average gross beta activity of all stations for each quarter of 1994 and 1995 is summarized below:

1994	First Quarter	0.029	pCi/Cu. M.
	Second Quarter	0.020	pCi/Cu. M.
	Third Quarter	0.024	pCi/Cu. M.
	Fourth Quarter	0.034	pCi/Cu. M.
	Average 1994	0.027	pCi/Cu. M.
1995	First Quarter	0.028	pCi/Cu. M.
	Second Quarter	0.017	pCi/Cu. M.
	Third Quarter	0.028	pCi/Cu. M.
	Fourth Quarter	0.030	pCi/Cu. M.
	Average 1995	0.026	pCi/Cu. M.

The level of beta activity was at normal environmental levels in 1995 showing the natural seasonal variations. There was a slight decrease in the level of gross beta activity during the first quarter; there was a slight decrease from the second quarter of 1994 and an increase from the third quarter of 1994; the fourth quarter was slightly higher as shown in Table A-4. The increase and decline in activity often occurs and is attributed to natural phenomena.

The gross alpha activity continued low and close to the limits of detection. Gross alpha activity is probably due to the alpha emitters found in soil and particulates drawn into the filters.

No effect attributable to the Cooper Nuclear Station was observed in the results of monitoring air particulates.

A and B. AIR PARTICULATE SAMPLES - GROSS BETA AND GROSS ALPHA

(See Tables A-1 - A-4, B-1 - B-4)

STATIONS 01 to 10

Figure A1, B1 shows the gross beta, gross alpha and Ce-144 activity in the environs of CNS. The results for 1986 through 1995 are on the second and third pages of Figure A-1, B-1. The gross beta activity in 1995 was similar to previous years in which there were no nuclear atmospheric weapons tests or nuclear accidents. The gross alpha activity remained low and near the normal detection level. Cesium-144 was below the level of detection.

Figure A-2 shows the gross beta activity in air samples through April 1989 at Jefferson City, Missouri as reported by the Environmental Radiation Monitoring System (ERAMS) of the US Environmental Protection Agency. No more recent data was available. This data was taken from Environmental Radiation Data distributed by the Eastern Environmental Radiation Facility, Montgomery, Alabama. The measurements by ERAMS were made after a waiting period which may explain the somewhat lower results because of decay of the isotopes having a shorter half-life. Measurements of Ce-144 were no longer reported because the activity has approached the limit of detection by the analytical techniques now used.

FIGURE A1, B1
 AIR PARTICULATES - CNS
 ALPHA AND BETA MONTHLY AVERAGE - ALL LOCATIONS
 CE-144 QUARTERLY AVERAGE - ALL LOCATIONS

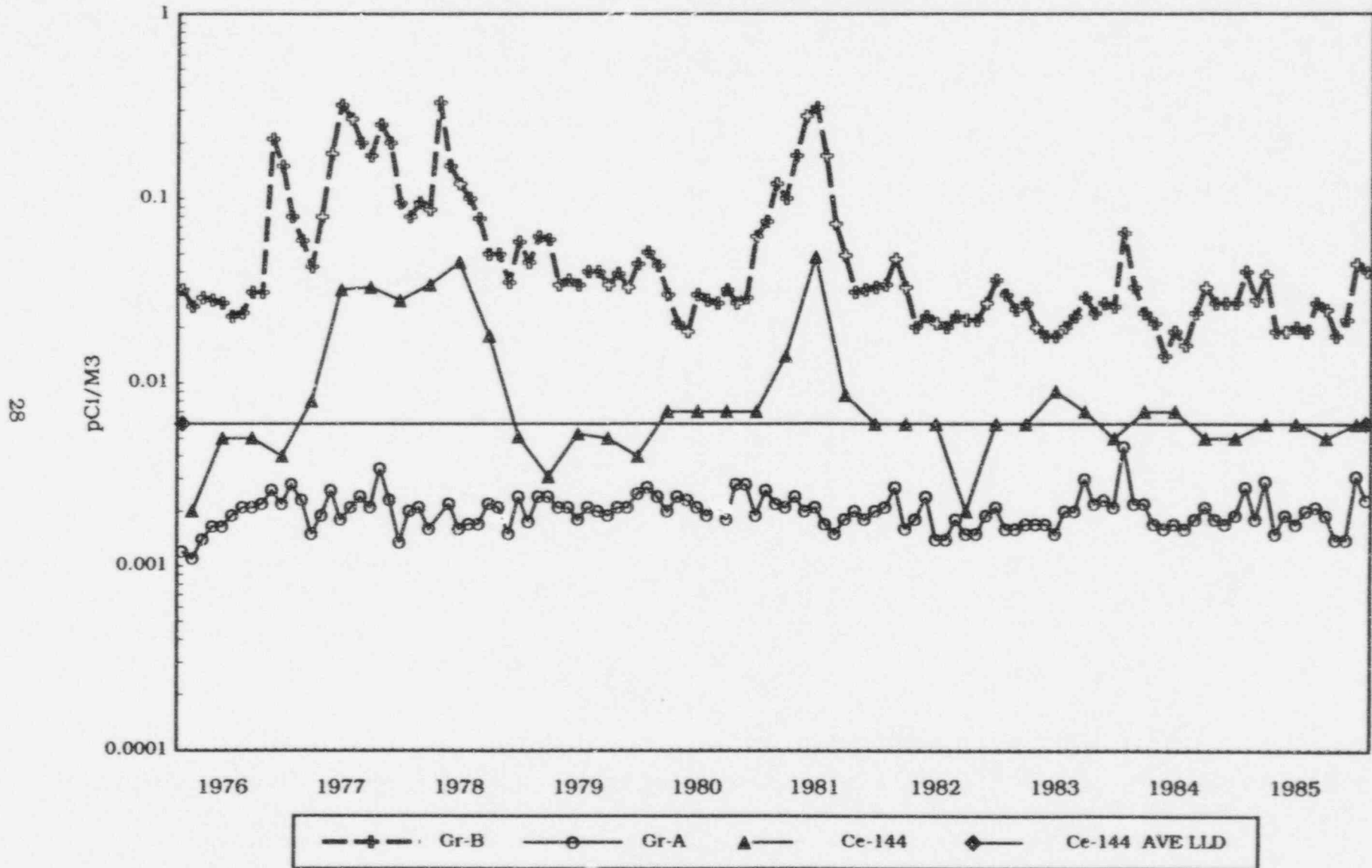


FIGURE A1, B1
 AIR PARTICULATES - CNS
 ALPHA AND BETA MONTHLY AVERAGE - ALL LOCATIONS
 CE-144 QUARTERLY AVERAGE - ALL LOCATIONS

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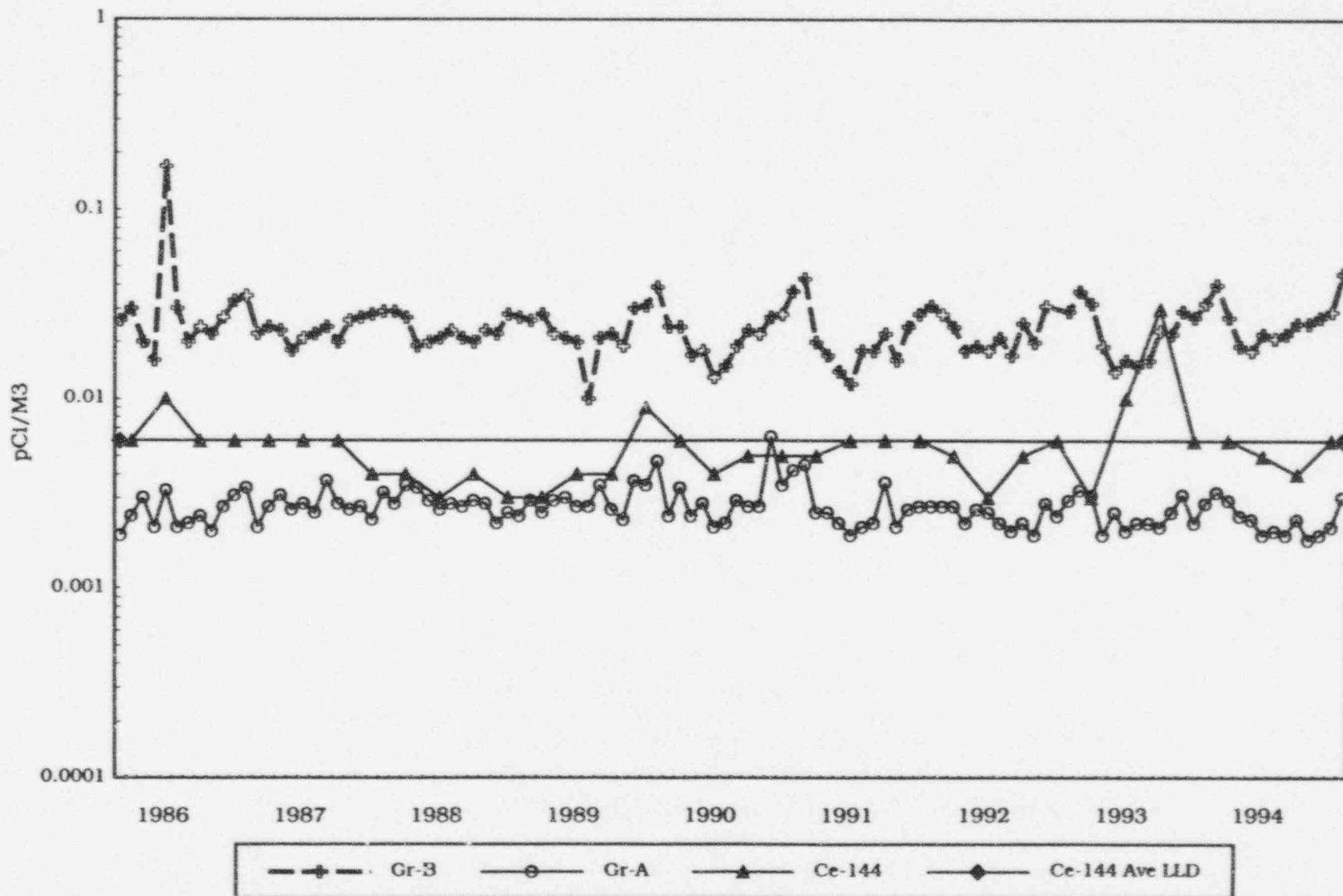
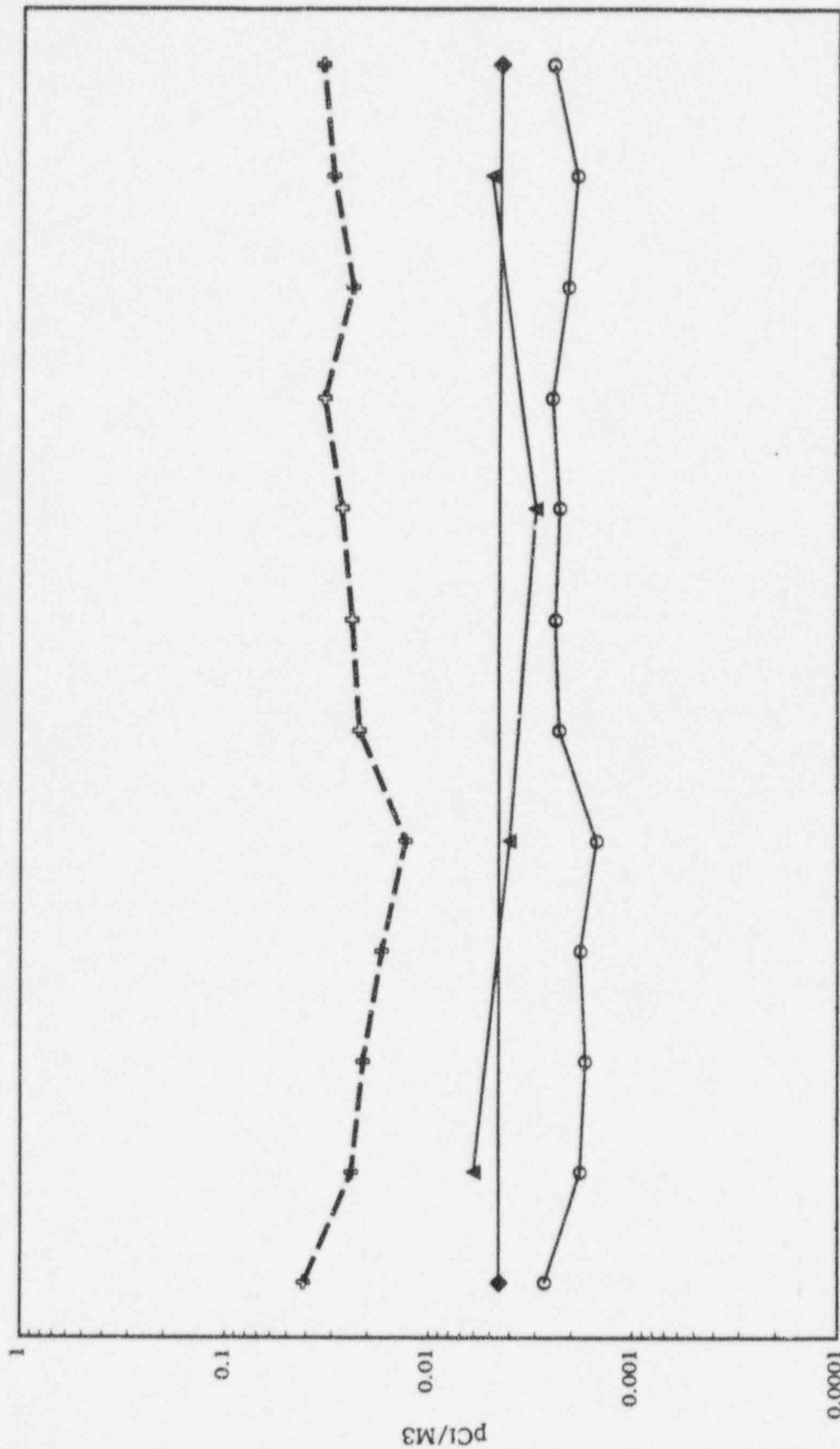


FIGURE A1, B1
 AIR PARTICULATES - CNS
 ALPHA AND BETA MONTHLY AVERAGE - ALL LOCATIONS
 CE-144 QUARTERLY AVERAGE - ALL LOCATIONS



1995

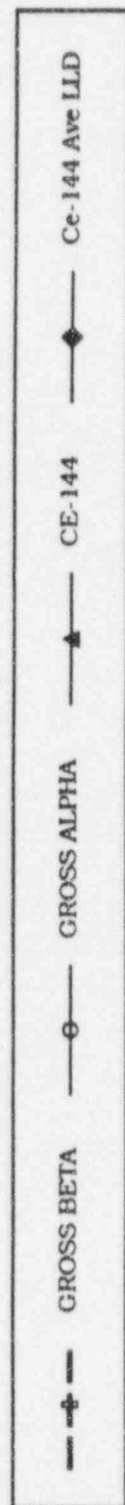


FIGURE A-2
AIR PARTICULATES
BETA MONTHLY AVERAGE - JEFFERSON CITY
MISSOURI ERAMS EPA

31

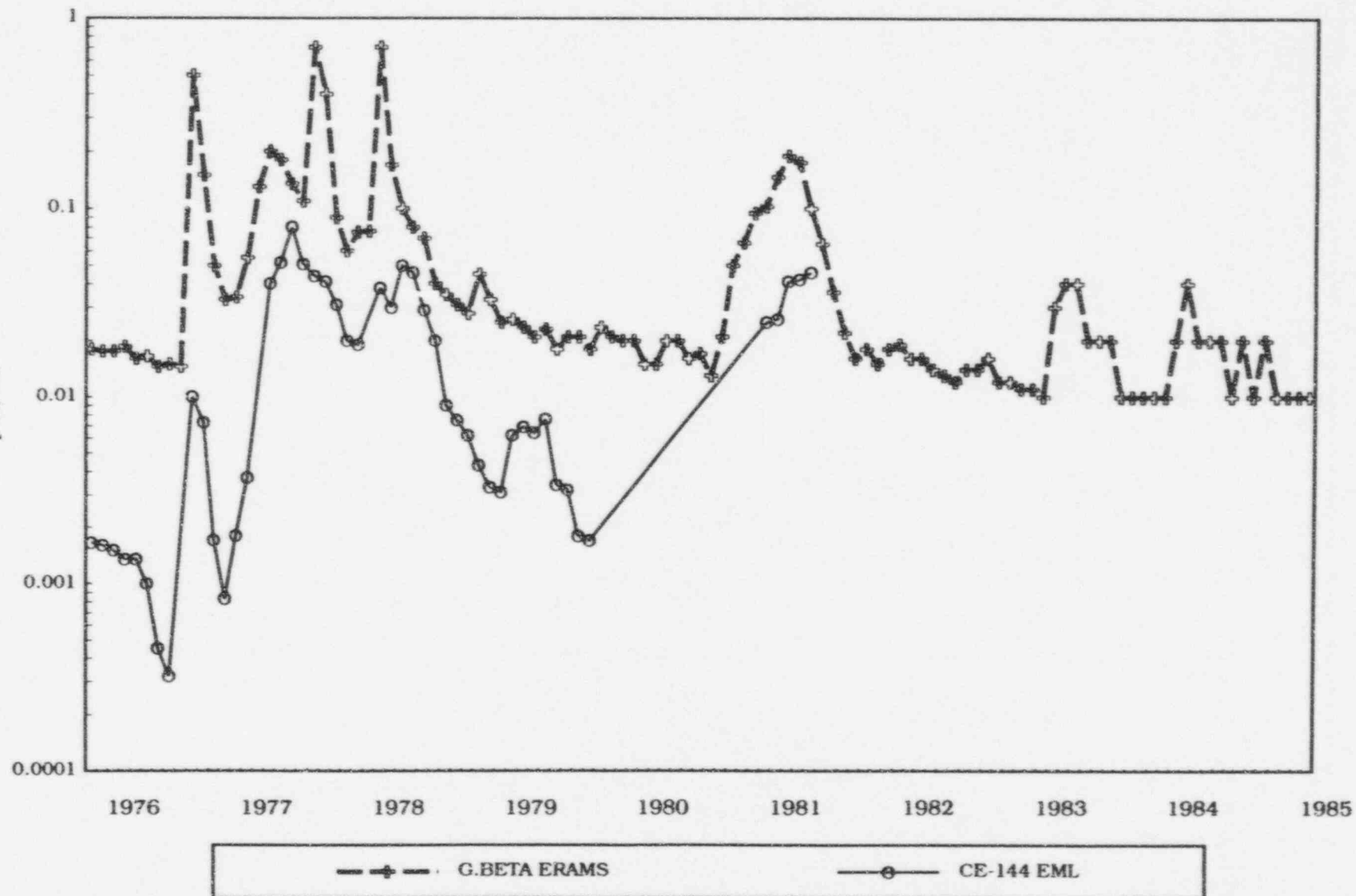


FIGURE A-2
AIR PARTICULATES
BETA MONTHLY AVERAGE - JEFFERSON CITY
MISSOURI ERAMS EPA

32

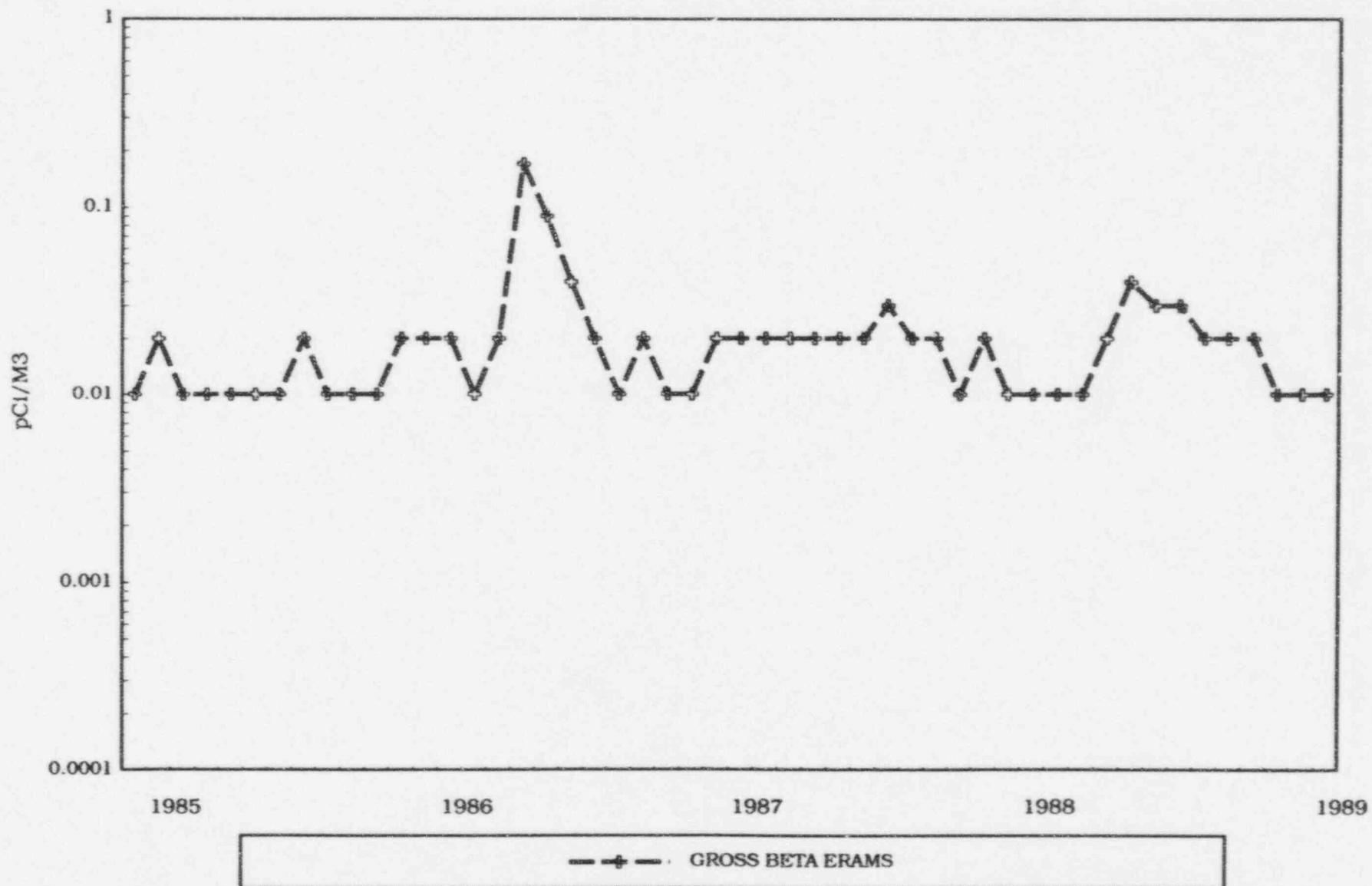


TABLE A-1
WEEKLY COLLECTIONS FIRST QUARTER 1995
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE FILTERS
pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 01/03-01/31	MONTHLY SUMMARY 01/31-02/28	MONTHLY SUMMARY 02/28-03/28	FIRST QUARTER SUMMARY 01/03-03/28
GROSS BETA	01	3.4 ± 0.6 E-02	2.4 ± 0.5 E-02	2.1 ± 0.8 E-02	2.6 ± 0.8 E-02
	02	3.5 ± 0.8 E-02	2.1 ± 0.4 E-02	2.1 ± 0.9 E-02	2.6 ± 0.9 E-02
	03	3.6 ± 0.8 E-02	2.2 ± 0.3 E-02	2.0 ± 0.6 E-02	2.6 ± 0.9 E-02
	04	8.4 ± 1.9 E-02	4.0 ± 1.8 E-02	2.1 ± 0.8 E-02	4.8 ± 3.1 E-02
	05	4.5 ± 1.4 E-02	2.7 ± 0.6 E-02	2.8 ± 0.8 E-02	3.3 ± 1.2 E-02
	06	3.4 ± 0.6 E-02	2.0 ± 0.3 E-02	2.1 ± 0.8 E-02	2.4 ± 0.8 E-02
	07	3.7 ± 0.9 E-02	2.1 ± 0.5 E-02	2.0 ± 0.6 E-02	2.6 ± 1.0 E-02
	08	3.5 ± 1.2 E-02	2.2 ± 0.2 E-02	2.1 ± 0.9 E-02	2.6 ± 1.0 E-02
	09	3.5 ± 0.6 E-02	2.1 ± 0.3 E-02	2.0 ± 0.9 E-02	2.5 ± 0.9 E-02
	10	3.3 ± 0.9 E-02	1.9 ± 0.4 E-02	1.9 ± 0.6 E-02	2.4 ± 0.9 E-02
AVERAGE ALL STATIONS	01-10	4.1 ± 1.8 E-02	2.4 ± 0.8 E-02	2.1 ± 0.7 E-02	2.8 ± 1.5 E-02

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TABLE A-2

WEEKLY COLLECTIONS SECOND QUARTER 1995

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AIRBORNE

AIR PARTICULATE FILTERS

pCi/Cu. M

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 03/28-05/02	MONTHLY SUMMARY 05/02-05/30	MONTHLY SUMMARY 05/30-06/27	SECOND QUARTER SUMMARY 03/28-06/27
GROSS BETA	01	1.9 ± 0.7 E-02	1.2 ± 0.3 E-02	2.4 ± 0.3 E-02	1.9 ± 0.7 E-02
	02	1.7 ± 0.3 E-02	1.3 ± 0.4 E-02	2.7 ± 0.7 E-02	1.9 ± 0.7 E-02
	03	1.5 ± 0.3 E-02	1.2 ± 0.2 E-02	2.2 ± 0.2 E-02	1.6 ± 0.4 E-02
	04	1.8 ± 0.3 E-02	1.3 ± 0.3 E-02	2.5 ± 1.3 E-02	1.9 ± 0.8 E-02
	05	2.3 ± 0.6 E-02	1.4 ± 0.4 E-02	2.3 ± 0.9 E-02	2.0 ± 0.7 E-02
	06	1.6 ± 0.4 E-02	1.3 ± 0.3 E-02	1.9 ± 0.6 E-02	1.6 ± 0.5 E-02
	07	1.6 ± 0.3 E-02	1.3 ± 0.3 E-02	2.1 ± 0.7 E-02	1.7 ± 0.5 E-02
	08	1.6 ± 0.3 E-02	1.1 ± 0.1 E-02	2.3 ± 1.0 E-02	1.7 ± 0.7 E-02
	09	1.6 ± 0.3 E-02	1.3 ± 0.4 E-02	1.9 ± 0.7 E-02	1.6 ± 0.5 E-02
	10	1.4 ± 0.4 E-02	1.2 ± 0.3 E-02	2.2 ± 0.8 E-02	1.6 ± 0.6 E-02
AVERAGE ALL STATIONS	01-10	1.7 ± 0.4 E-02	1.3 ± 0.3 E-02	2.2 ± 0.7 E-02	1.7 ± 0.6 E-02

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TABLE A-3

WEEKLY COLLECTIONS - THIRD QUARTER 1995

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AIRBORNE

AIR PARTICULATE FILTERS

pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 06/27-08/01	MONTHLY SUMMARY 08/01-08/29	MONTHLY SUMMARY 08/29-10/03	THIRD QUARTER SUMMARY 06/27-10/03
GROSS BETA	01	2.4 ± 0.4 E-02	2.5 ± 1.4 E-02	3.3 ± 0.7 E-02	2.7 ± 0.9 E-02
	02	2.7 ± 0.7 E-02	2.5 ± 1.0 E-02	3.3 ± 0.8 E-02	2.8 ± 0.8 E-02
	03	1.9 ± 0.5 E-02	2.5 ± 1.5 E-02	2.8 ± 1.0 E-02	2.4 ± 1.0 E-02
	04	3.3 ± 1.2 E-02	3.0 ± 0.5 E-02	4.7 ± 1.1 E-02	3.7 ± 1.2 E-02
	05	2.9 ± 1.1 E-02	2.8 ± 0.5 E-02	3.8 ± 1.0 E-02	3.2 ± 0.9 E-02
	06	2.4 ± 0.7 E-02	2.7 ± 0.9 E-02	2.9 ± 0.4 E-02	2.6 ± 0.7 E-02
	07	2.2 ± 0.5 E-02	2.3 ± 1.0 E-02	2.7 ± 0.5 E-02	2.4 ± 0.6 E-02
	08	2.2 ± 0.3 E-02	3.6 ± 1.8 E-02	3.7 ± 1.2 E-02	3.1 ± 1.3 E-02
	09	2.0 ± 0.6 E-02	2.5 ± 1.2 E-02	3.0 ± 0.7 E-02	2.5 ± 0.9 E-02
	10	2.2 ± 0.3 E-02	2.6 ± 1.3 E-02	3.3 ± 0.7 E-02	2.7 ± 0.9 E-02
AVERAGE ALL STATIONS	01-10	2.4 ± 0.7 E-02	2.7 ± 1.1 E-02	3.3 ± 1.0 E-02	2.8 ± 1.0 E-02

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TABLE A-4
WEEKLY COLLECTIONS FOURTH QUARTER 1995
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE FILTERS
pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 10/03-10/31	MONTHLY SUMMARY 10/31-11/28	MONTHLY SUMMARY 11/28-01/02	FOURTH QUARTER SUMMARY 10/03-01/02
GROSS BETA	01	1.9 ± 1.1 E-02	2.9 ± 0.1 E-02	4.4 ± 2.3 E-02	3.2 ± 1.9 E-02
	02	2.3 ± 0.7 E-02	3.0 ± 0.9 E-02	3.2 ± 1.1 E-02	2.9 ± 0.9 E-02
	03	2.1 ± 0.5 E-02	2.8 ± 0.3 E-02	2.9 ± 0.9 E-02	2.6 ± 0.7 E-02
	04	3.2 ± 1.8 E-02	2.9 ± 0.4 E-02	3.1 ± 0.9 E-02	3.1 ± 1.1 E-02
	05	2.8 ± 0.9 E-02	2.7 ± 0.4 E-02	3.2 ± 1.3 E-02	2.9 ± 0.9 E-02
	06	2.3 ± 0.4 E-02	3.4 ± 0.2 E-02	3.6 ± 1.2 E-02	3.1 ± 0.9 E-02
	07	2.3 ± 0.8 E-02	3.0 ± 0.3 E-02	3.1 ± 1.6 E-02	2.8 ± 1.1 E-02
	08	2.7 ± 1.0 E-02	3.1 ± 0.7 E-02	3.7 ± 1.3 E-02	3.2 ± 1.1 E-02
	09	2.0 ± 0.6 E-02	3.3 ± 0.3 E-02	3.1 ± 1.2 E-02	2.8 ± 0.9 E-02
	10	2.4 ± 0.8 E-02	3.2 ± 0.3 E-02	3.3 ± 1.1 E-02	3.0 ± 0.9 E-02
AVERAGE ALL STATIONS	01-10	2.4 ± 0.9 E-02	3.0 ± 0.5 E-02	3.4 ± 1.3 E-02	3.0 ± 1.1 E-02

\bar{x} and s

Grand \bar{x} and s

TABLE B-1
WEEKLY COLLECTIONS FIRST QUARTER 1995
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE FILTERS
pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 01/03-01/31	MONTHLY SUMMARY 01/31-02/28	MONTHLY SUMMARY 02/28-03/28	FIRST QUARTER SUMMARY 01/03-03/28
GROSS ALPHA	01	2.6 ± 0.7 E-03	1.5 ± 0.4 E-03	1.8 ± 1.0 E-03	2.0 ± 0.8 E-03
	02	2.4 ± 0.3 E-03	1.4 ± 0.3 E-03	1.9 ± 0.9 E-03	1.9 ± 0.7 E-03
	03	2.1 ± 0.9 E-03	1.9 ± 1.0 E-03	1.5 ± 0.6 E-03	1.8 ± 0.8 E-03
	04	5.3 ± 1.0 E-03	3.0 ± 2.0 E-03	1.7 ± 0.6 E-03	3.3 ± 2.0 E-03
	05	2.3 ± 0.7 E-03	2.0 ± 0.4 E-03	1.4 ± 0.5 E-03	1.9 ± 0.6 E-03
	06	2.6 ± 1.2 E-03	1.3 ± 0.7 E-03	1.7 ± 0.6 E-03	1.8 ± 0.9 E-03
	07	2.5 ± 0.5 E-03	1.6 ± 0.6 E-03	2.2 ± 1.2 E-03	2.1 ± 0.9 E-03
	08	3.3 ± 1.7 E-03	1.8 ± 0.6 E-03	1.4 ± 0.5 E-03	2.2 ± 1.3 E-03
	09	2.0 ± 0.6 E-03	1.7 ± 0.1 E-03	1.6 ± 0.5 E-03	1.8 ± 0.4 E-03
	10	1.8 ± 1.0 E-03	1.5 ± 0.6 E-03	1.9 ± 0.3 E-03	1.7 ± 0.7 E-03
AVERAGE ALL STATIONS	01-10	2.7 ± 1.3 E-03	1.8 ± 0.9 E-03	1.7 ± 0.7 E-03	2.0 ± 1.1 E-03

\bar{x} and s

Grand \bar{x} and s

TABLE B-2
WEEKLY COLLECTIONS SECOND QUARTER 1995
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE FILTERS
pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 03/28-05/02	MONTHLY SUMMARY 05/02-05/30	MONTHLY SUMMARY 05/30-06/27	SECOND QUARTER SUMMARY 03/28-06/27
GROSS ALPHA	01	1.6 ± 0.5 E-03	1.4 ± 0.5 E-03	2.2 ± 1.2 E-03	1.7 ± 0.8 E-03
	02	1.9 ± 0.7 E-03	1.4 ± 0.1 E-03	3.0 ± 0.7 E-03	2.1 ± 0.8 E-03
	03	1.5 ± 0.4 E-03	1.5 ± 0.6 E-03	2.6 ± 0.4 E-03	1.7 ± 0.6 E-03
	04	2.1 ± 1.1 E-03	1.6 ± 0.5 E-03	2.7 ± 1.5 E-03	2.1 ± 1.1 E-03
	05	2.2 ± 1.0 E-03	1.8 ± 0.8 E-03	2.3 ± 1.3 E-03	2.1 ± 1.0 E-03
	06	1.7 ± 0.3 E-03	1.5 ± 0.7 E-03	2.2 ± 1.1 E-03	1.8 ± 0.7 E-03
	07	1.9 ± 0.6 E-03	2.3 ± 0.4 E-03	2.2 ± 1.1 E-03	2.1 ± 0.7 E-03
	08	1.8 ± 0.4 E-03	1.4 ± 0.6 E-03	1.7 ± 0.4 E-03	1.7 ± 0.5 E-03
	09	1.5 ± 0.4 E-03	1.3 ± 0.4 E-03	2.0 ± 0.8 E-03	1.6 ± 0.6 E-03
	10	1.7 ± 0.4 E-03	1.1 ± 0.3 E-03	2.3 ± 1.0 E-03	1.7 ± 0.7 E-03
AVERAGE ALL STATIONS	01-10	1.8 ± 0.6 E-03	1.5 ± 0.6 E-03	2.3 ± 1.0 E-03	1.9 ± 0.8 E-03
\bar{x} and s					Grand \bar{x} and s

TABLE B-3

WEEKLY COLLECTIONS - THIRD QUARTER 1995

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AIRBORNE

AIR PARTICULATE FILTERS

pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 06/27-08/01	MONTHLY SUMMARY 08/01-08/29	MONTHLY SUMMARY 08/29-10/03	THIRD QUARTER SUMMARY 06/27-10/03
GROSS ALPHA	01	2.7 ± 1.0 E-03	2.2 ± 0.4 E-03	2.3 ± 0.3 E-03	2.4 ± 0.7 E-03
	02	3.3 ± 2.0 E-03	2.3 ± 0.7 E-03	2.2 ± 0.3 E-03	2.6 ± 1.3 E-03
	03	1.8 ± 0.8 E-03	1.8 ± 0.6 E-03	2.2 ± 0.4 E-03	1.9 ± 0.6 E-03
	04	2.5 ± 0.6 E-03	2.5 ± 0.7 E-03	3.2 ± 1.3 E-03	2.7 ± 0.9 E-03
	05	2.3 ± 0.6 E-03	2.6 ± 0.7 E-03	2.9 ± 0.8 E-03	2.6 ± 0.7 E-03
	06	2.1 ± 0.9 E-03	2.1 ± 0.6 E-03	2.2 ± 0.3 E-03	2.1 ± 0.6 E-03
	07	2.9 ± 1.4 E-03	2.6 ± 0.9 E-03	2.3 ± 0.3 E-03	2.6 ± 0.9 E-03
	08	2.2 ± 1.5 E-03	2.7 ± 0.7 E-03	2.7 ± 1.0 E-03	2.5 ± 1.1 E-03
	09	2.2 ± 0.4 E-03	2.5 ± 0.6 E-03	2.4 ± 0.9 E-03	2.4 ± 0.7 E-03
	10	1.7 ± 0.5 E-03	2.3 ± 0.2 E-03	2.3 ± 0.7 E-03	2.1 ± 0.6 E-03
AVERAGE ALL STATIONS	01-10	2.4 ± 1.1 E-03	2.3 ± 0.6 E-03	2.5 ± 0.7 E-03	2.4 ± 0.9 E-03

 \bar{x} and sGrand \bar{x} and s

TABLE B-4
WEEKLY COLLECTIONS FOURTH QUARTER 1995
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE FILTERS
pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 10/03-10/31	MONTHLY SUMMARY 10/31-11/28	MONTHLY SUMMARY 11/28-01/02	FOURTH QUARTER SUMMARY 10/03-01/02
GROSS ALPHA	01	1.7 ± 0.5 E-03	1.9 ± 0.2 E-03	2.9 ± 1.4 E-03	2.3 ± 1.1 E-03
	02	2.3 ± 0.6 E-03	2.8 ± 1.6 E-03	1.9 ± 0.6 E-03	2.3 ± 1.0 E-03
	03	1.9 ± 0.3 E-02	1.7 ± 0.9 E-03	2.6 ± 1.3 E-03	2.1 ± 1.0 E-03
	04	2.7 ± 1.3 E-02	2.0 ± 1.1 E-03	2.3 ± 0.3 E-03	2.3 ± 0.9 E-03
	05	2.2 ± 0.6 E-02	1.4 ± 0.5 E-02	2.8 ± 2.1 E-03	2.2 ± 1.4 E-02
	06	2.1 ± 0.9 E-02	1.4 ± 0.5 E-03	2.4 ± 1.0 E-03	2.0 ± 0.9 E-03
	07	2.2 ± 0.7 E-03	2.1 ± 0.9 E-03	2.6 ± 0.8 E-03	2.3 ± 0.8 E-03
	08	2.4 ± 1.1 E-03	1.7 ± 0.8 E-03	2.3 ± 1.3 E-03	2.1 ± 1.1 E-03
	09	1.8 ± 0.5 E-03	1.8 ± 0.2 E-03	2.2 ± 0.5 E-03	2.0 ± 0.5 E-03
	10	2.2 ± 0.8 E-03	1.9 ± 0.3 E-03	2.7 ± 0.9 E-03	2.3 ± 0.7 E-03
AVERAGE ALL STATIONS	01-10	2.1 ± 0.7 E-03	1.9 ± 0.8 E-03	2.5 ± 1.1 E-03	2.2 ± 0.9 E-03

\bar{x} and s

Grand \bar{x} and s

C. AIR RADIOIODINE - CHARCOAL FILTERS (See Tables C-1 through C-4)

STATIONS 01 TO 10

Charcoal filters used in series with air particulate filters were collected weekly during 1995 at stations 01 through 10 and monitored for radioiodine.

Tables C-1 through C-4 show the average monthly and quarterly results for each station and the average of all 10 stations. Airborne I-131 levels were below the limits of detection for all of 1995.

Figure C-1 plots the results of I-131 as monitored in charcoal filters and summarized monthly in 1995 compared with previous years. Results for 1995 were below the normal limits of detection indicating no atmospheric effect from the operations of CNS.

FIGURE C-1
AIRBORNE I-131
MONTHLY AVERAGE - ALL LOCATIONS

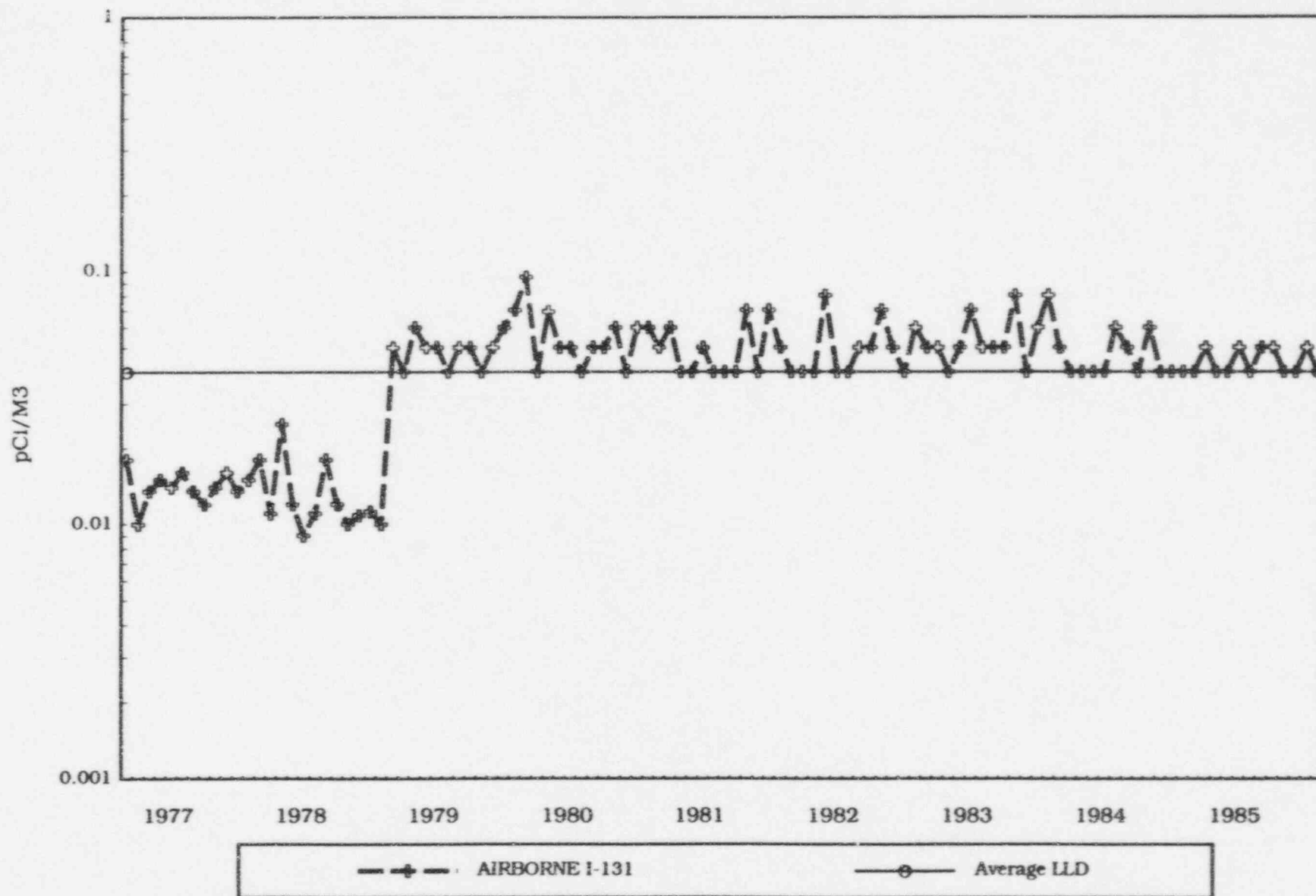


FIGURE C-1
AIRBORNE I-131
MONTHLY AVERAGE - ALL LOCATIONS

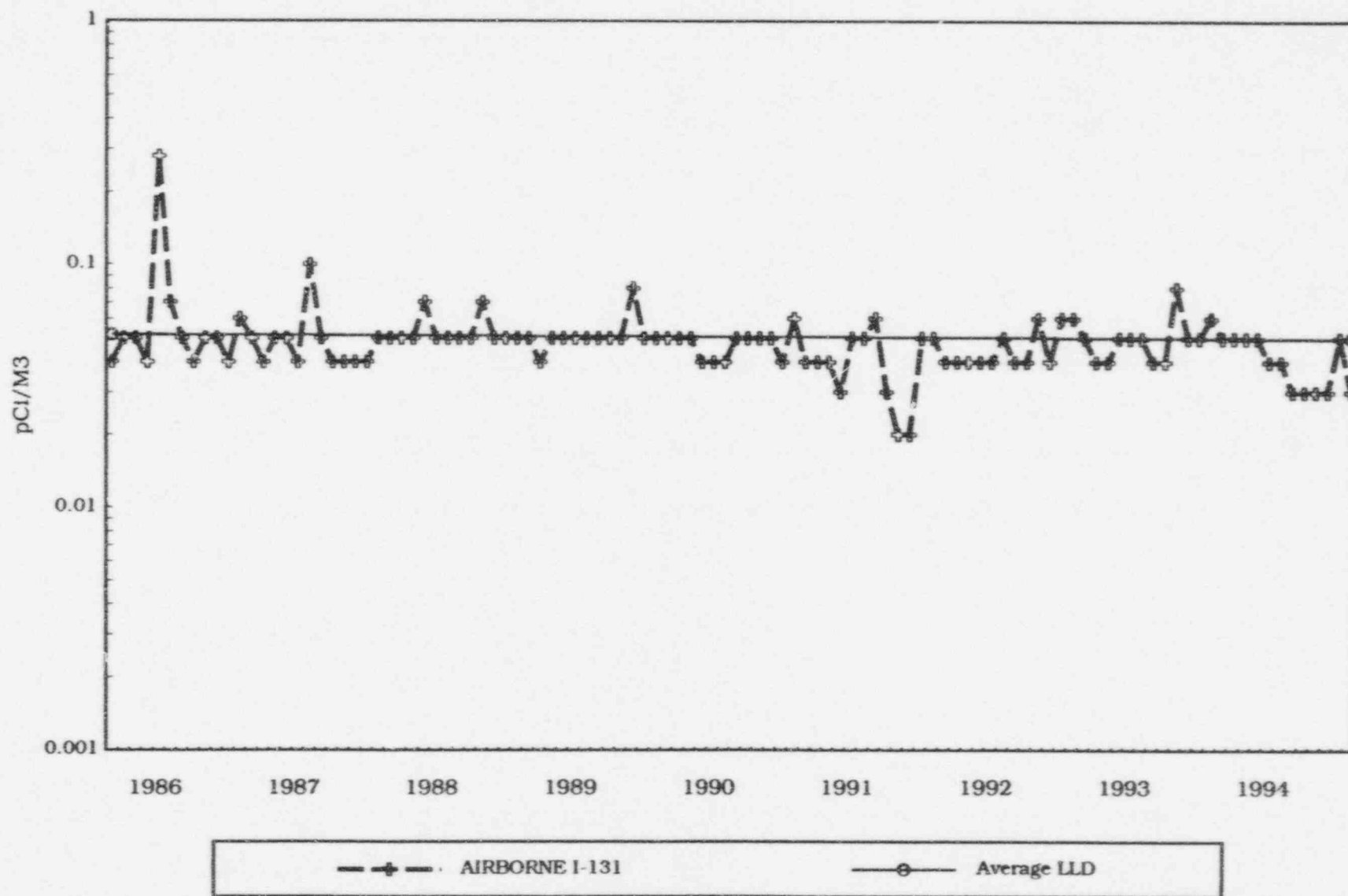


FIGURE C-1
AIRBORNE I-131
MONTHLY AVERAGE - ALL LOCATIONS

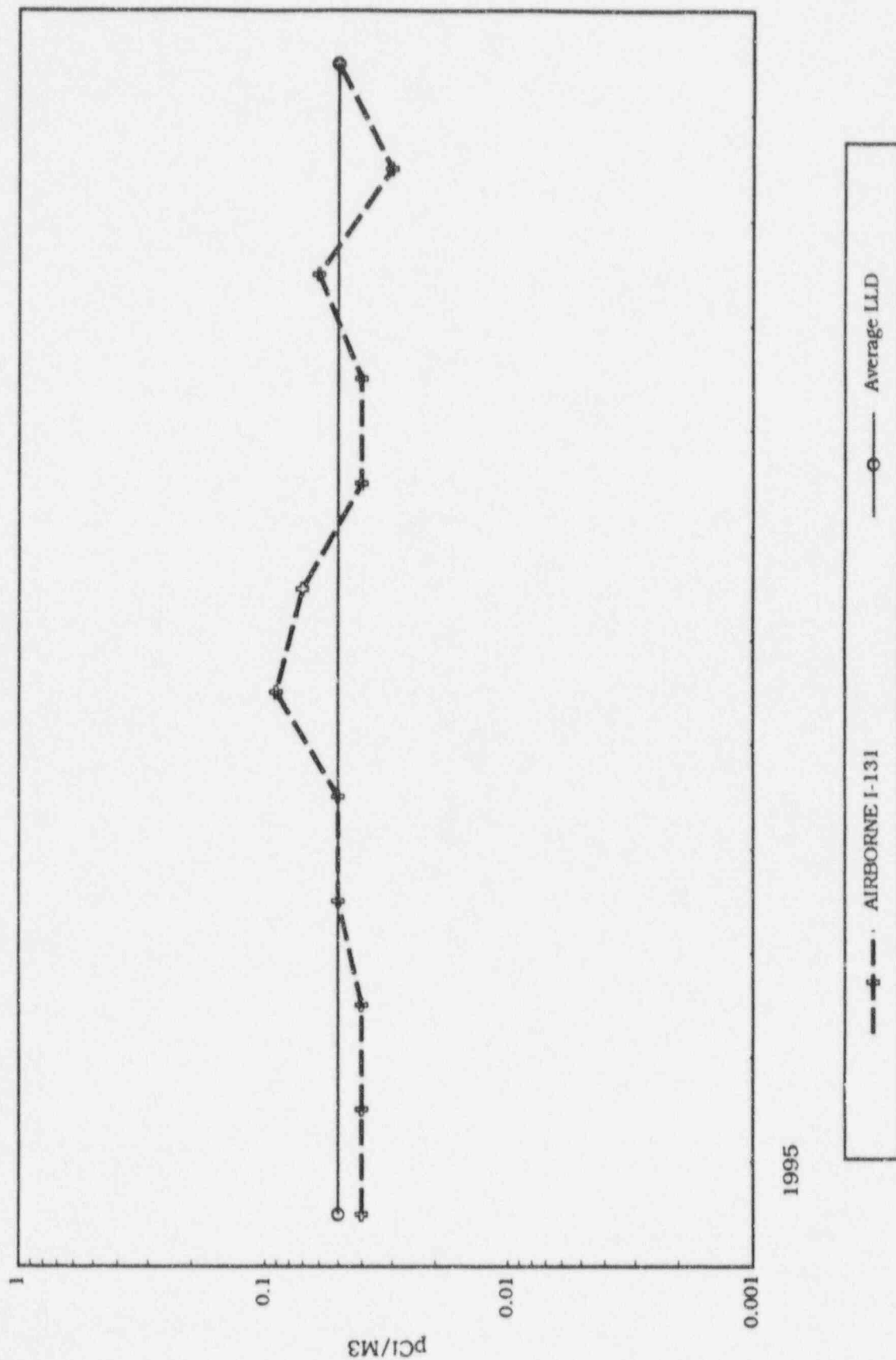


TABLE C-1

WEEKLY COLLECTIONS FIRST QUARTER 1995

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AIRBORNE

CHARCOAL FILTERS

pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 01/03-01/31	MONTHLY SUMMARY 01/31-02/28	MONTHLY SUMMARY 02/28-03/28	QUARTERLY SUMMARY 01/03-03/28	DET./ TOTAL	RANGE
IODINE-131	01	L.T. 3. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	0/12	(L.T.2.-L.T.4.)E-02
	02	L.T. 3. E-02	L.T. 4. E-02	L.T. 3. E-02	L.T. 4. E-02	0/12	(L.T.1.-L.T.4.)E-02
	03	L.T. 3. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	0/12	(L.T.2.-L.T.4.)E-02
	04	L.T. 3. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	0/12	(L.T.2.-L.T.4.)E-02
	05	L.T. 2. E-02	L.T. 3. E-02	L.T. 2. E-02	L.T. 3. E-02	0/12	(L.T.1.-L.T.3.)E-02
	06	L.T. 4. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02	0/12	(L.T.2.-L.T.4.)E-02
	07	L.T. 4. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02	0/12	(L.T.1.-L.T.4.)E-02
	08	L.T. 4. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02	0/12	(L.T.1.-L.T.4.)E-02
	09	L.T. 4. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02	0/12	(L.T.1.-L.T.4.)E-02
	10	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	0/12	(L.T.1.-L.T.2.)E-02
	01-10	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02		--
	DET./TOTAL	0/40	0/40	0/40	0/120	0/120	--
	RANGE	(L.T.1.-L.T.4.)E-02	(L.T.1.-L.T.4.)E-02	(L.T.1.-L.T.4.)E-02	(L.T.1.-L.T.4.)E-02	--	(L.T.1.-L.T.4.)E-02

TABLE C-2

WEEKLY COLLECTIONS SECOND QUARTER 1995

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AIRBORNE

CHARCOAL FILTERS

pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 03/28-05/02	MONTHLY SUMMARY 05/02-05/30	MONTHLY SUMMARY 05/30-06/27	QUARTERLY SUMMARY 03/28-06/27	DET./ TOTAL	RANGE
IODE-131	01	L.T. 3. E-02	L.T. 4. E-02	L.T. 6. E-02	L.T. 6. E-02	0/13	(L.T.1.-L.T.6.)E-02
	02	L.T. 4. E-02	L.T. 4. E-02	L.T. 9. E-02	L.T. 9. E-02	0/13	(L.T.2.-L.T.9.)E-02
	03	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	0/10	(L.T.2.-L.T.4.)E-02
	04	L.T. 4. E-02	L.T. 4. E-02	L.T. 6. E-02	L.T. 6. E-02	0/13	(L.T.2.-L.T.6.)E-02
	05	L.T. 2. E-02	L.T. 2. E-02	L.T. 3. E-02	L.T. 3. E-02	0/13	(L.T.1.-L.T.3.)E-02
	06	L.T. 5. E-02	L.T. 5. E-02	L.T. 3. E-02	L.T. 5. E-02	0/13	(L.T.2.-L.T.5.)E-02
	07	L.T. 5. E-02	L.T. 5. E-02	L.T. 3. E-02	L.T. 5. E-02	0/13	(L.T.2.-L.T.5.)E-02
	08	L.T. 5. E-02	L.T. 5. E-02	L.T. 3. E-02	L.T. 5. E-02	0/13	(L.T.2.-L.T.5.)E-02
	09	L.T. 5. E-02	L.T. 5. E-02	L.T. 3. E-02	L.T. 5. E-02	0/13	(L.T.2.-L.T.5.)E-02
	10	L.T. 4. E-02	L.T. 3. E-02	L.T. 2. E-02	L.T. 4. E-02	0/13	(L.T.1.-L.T.4.)E-02
	01-10	L.T. 5. E-02	L.T. 5. E-02	L.T. 9. E-02	L.T. 9. E-02		--
	DET./TOTAL	0/50	0/39	0/38	0/127	0/127	--
	RANGE	(L.T.1.-L.T.5.)E-02	(L.T.2.-L.T.5.)E-02	(L.T.2.-L.T.9.)E-02	(L.T.1.-L.T.9.)E-02	--	(L.T.1.-L.T.9.)E-02

TABLE C-3

WEEKLY COLLECTIONS THIRD QUARTER 1995

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AIRBORNE

CHARCOAL FILTERS

pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 06/27-08/01			MONTHLY SUMMARY 08/01-08/29			MONTHLY SUMMARY 08/29-10/03			QUARTERLY SUMMARY 06/27-10/03			DET./ TOTAL	RANGE
IODINE-131	01	L.T.	5.	E-02	L.T.	3.	E-02	L.T.	4.	E-02	L.T.	5.	E-02	0/14	(L.T.2.-L.T.5.)E-02
	02	L.T.	7.	E-02	L.T.	3.	E-02	L.T.	4.	E-02	L.T.	7	E-02	0/14	(L.T.2.-L.T.7.)E-02
	03	L.T.	4.	E-02	L.T.	3.	E-02	L.T.	4.	E-02	L.T.	4.	E-02	0/14	(L.T.2.-L.T.4.)E-02
	04	L.T.	5.	E-02	L.T.	4.	E-02	L.T.	4.	E-02	L.T.	5.	E-02	0/14	(L.T.2.-L.T.5.)E-02
	05	L.T.	3.	E-02	L.T.	2.	E-02	L.T.	3.	E-02	L.T.	3.	E-02	0/14	(L.T.1.-L.T.3.)E-02
	06	L.T.	4.	E-02	L.T.	3.	E-02	L.T.	3.	E-02	L.T.	4.	E-02	0/14	(L.T.2.-L.T.4.)E-02
	07	L.T.	4.	E-02	L.T.	3.	E-02	L.T.	3.	E-02	L.T.	4.	E-02	0/14	(L.T.2.-L.T.4.)E-02
	08	L.T.	4.	E-02	L.T.	3.	E-02	L.T.	3.	E-02	L.T.	4.	E-02	0/14	(L.T.2.-L.T.4.)E-02
	09	L.T.	4.	E-02	L.T.	3.	E-02	L.T.	3.	E-02	L.T.	4.	E-02	0/13	(L.T.2.-L.T.4.)E-02
	10	L.T.	3.	E-02	L.T.	2.	E-02	L.T.	2.	E-02	L.T.	3.	E-02	0/14	(L.T.1.-L.T.3.)E-02
01-10		L.T.	7.	E-02	L.T.	4.	E-02	L.T.	4.	E-02	L.T.	7.	E-02		--
DET./TOTAL			0/49			0/40			0/50			0/139			--
RANGE		(L.T.1.-L.T.7.)E-02			(L.T.1.-L.T.4.)E-02			(L.T.1.-L.T.4.)E-02			(L.T.1.-L.T.7.)E-02			--	(L.T.1.-L.T.7.)E-02

TABLE C-4

WEEKLY COLLECTIONS FOURTH QUARTER 1995

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AIRBORNE

CHARCOAL FILTERS

pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER	MONTHLY SUMMARY 10/03-10/31	MONTHLY SUMMARY 10/31-11/28	MONTHLY SUMMARY 11/28-01/02	QUARTERLY SUMMARY 10/03-01/02	DET./ TOTAL	RANGE
IODINE-131	01	L.T. 3. E-02	L.T. 3. E-02	L.T. 5. E-02	L.T. 5. E-02	0/12	(L.T.2.-L.T.5.)E-02
	02	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02	0/13	(L.T.2.-L.T.3.)E-02
	03	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02	0/13	(L.T.2.-L.T.3.)E-02
	04	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02	0/13	(L.T.2.-L.T.3.)E-02
	05	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	0/13	(L.T.1.-L.T.2.)E-02
	06	L.T. 4. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02	0/13	(L.T.2.-L.T.4.)E-02
	07	L.T. 5. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 5. E-02	0/13	(L.T.2.-L.T.5.)E-02
	08	L.T. 5. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 5. E-02	0/13	(L.T.2.-L.T.5.)E-02
	09	L.T. 6. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 6. E-02	0/13	(L.T.2.-L.T.6.)E-02
	10	L.T. 5. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 5. E-02	0/13	(L.T.1.-L.T.5.)E-02
01-10		L.T. 6. E-02	L.T. 3. E-02	L.T. 5. E-02	L.T. 6. E-02	0/129	
DET./TOTAL		0/40	0/39	0/50	0/129		
RANGE		(L.T.1.-L.T.6.)E-02	(L.T.1.-L.T.3.)E-02	(L.T.1.-L.T.5.)E-02	(L.T.1.-L.T.6.)E-02	--	(L.T.1.-L.T.6.)E-02

D. COMPOSITES OF AIR PARTICULATE FILTERS - GAMMA

(See Tables D-1 and D-2)

STATIONS 01 TO 10

Air Particulate Filters, which were collected weekly, were composited for each station for a quarterly gamma spectral analysis during the four quarters of 1995.

Beryllium-7, a naturally occurring cosmogenic nuclide, was detected in 40 of 40 samples at a level of 0.13 pCi per cubic meter which is similar to the levels of past years. Potassium-40, also a naturally occurring nuclide, was detected in nine of 40 samples at a level near the normal level of detection.

Figure D-1 graphs the gross beta, gross alpha and Ce-144 activity as measured on air particulate filters collected weekly at CNS. (This is the same as Figure A-1, B-1). The plot illustrates that there were no detections of Ce-144 above the normal level of detection as measured by the quarterly gamma scan of samples from CNS.

Figure D-2 shows that measurements of Ce-144 are no longer reported by the Environmental Measurements Laboratory of the US Department of Energy because the artificial nuclides such as Ce-144, have reached the limits of detection by the analytical techniques now used.

FIGURE D-1
 AIR PARTICULATES - CNS
 ALPHA AND BETA MONTHLY AVERAGE - ALL LOCATIONS
 CE-144 QUARTERLY AVERAGE - ALL LOCATIONS

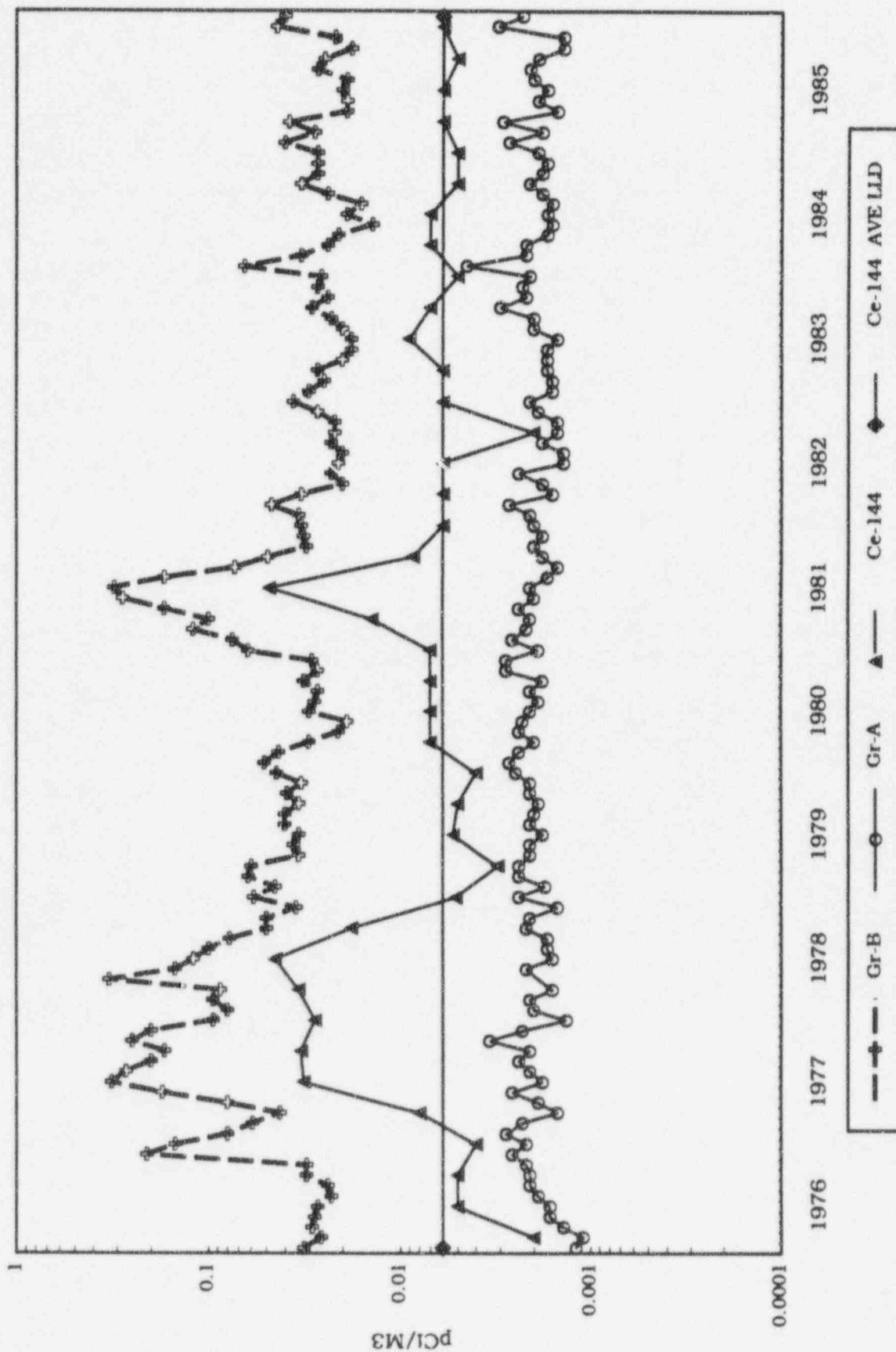


FIGURE D-1
 AIR PARTICULATES - CNS
 ALPHA AND BETA MONTHLY AVERAGE - ALL LOCATIONS
 CE-144 QUARTERLY AVERAGE - ALL LOCATIONS

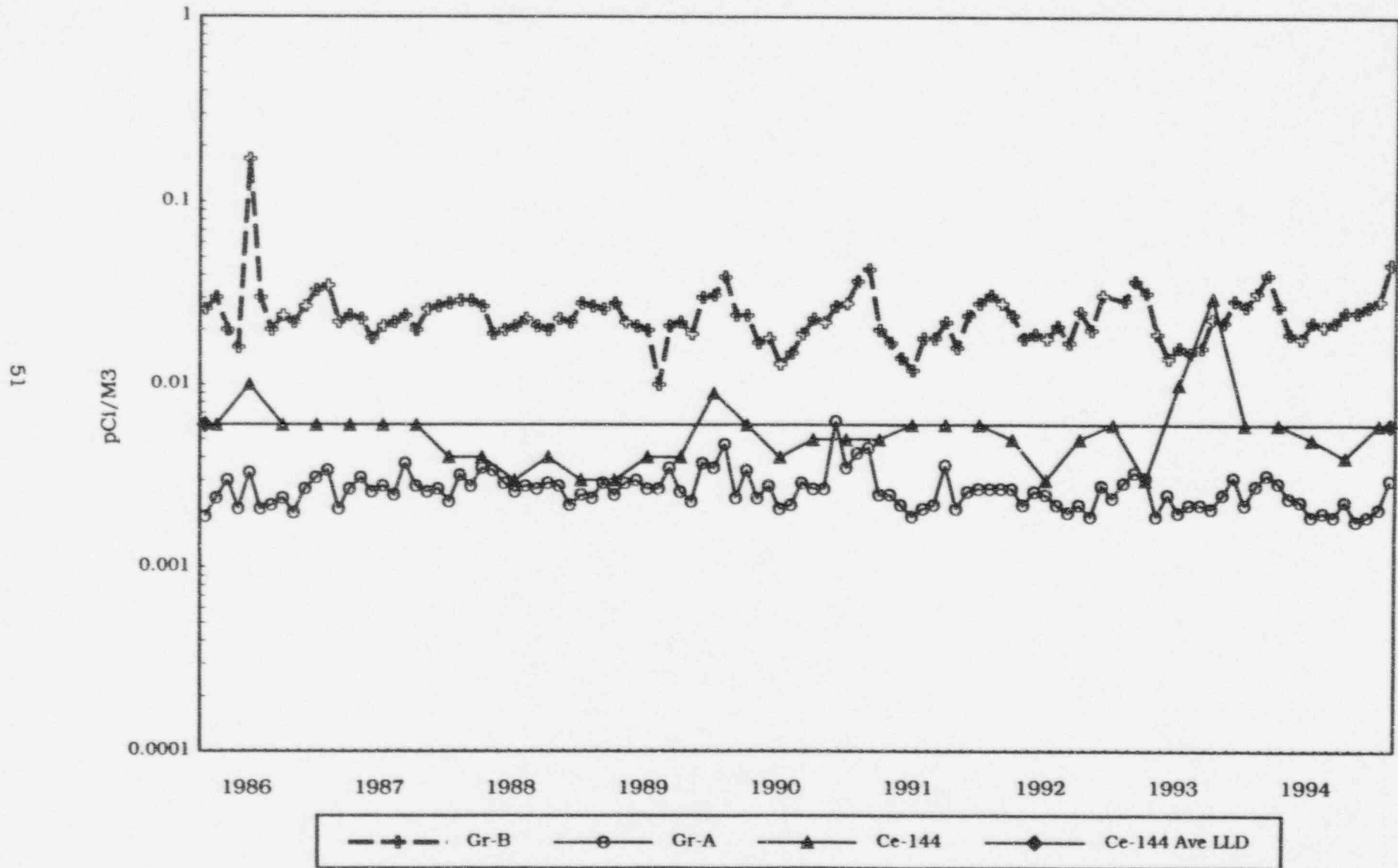
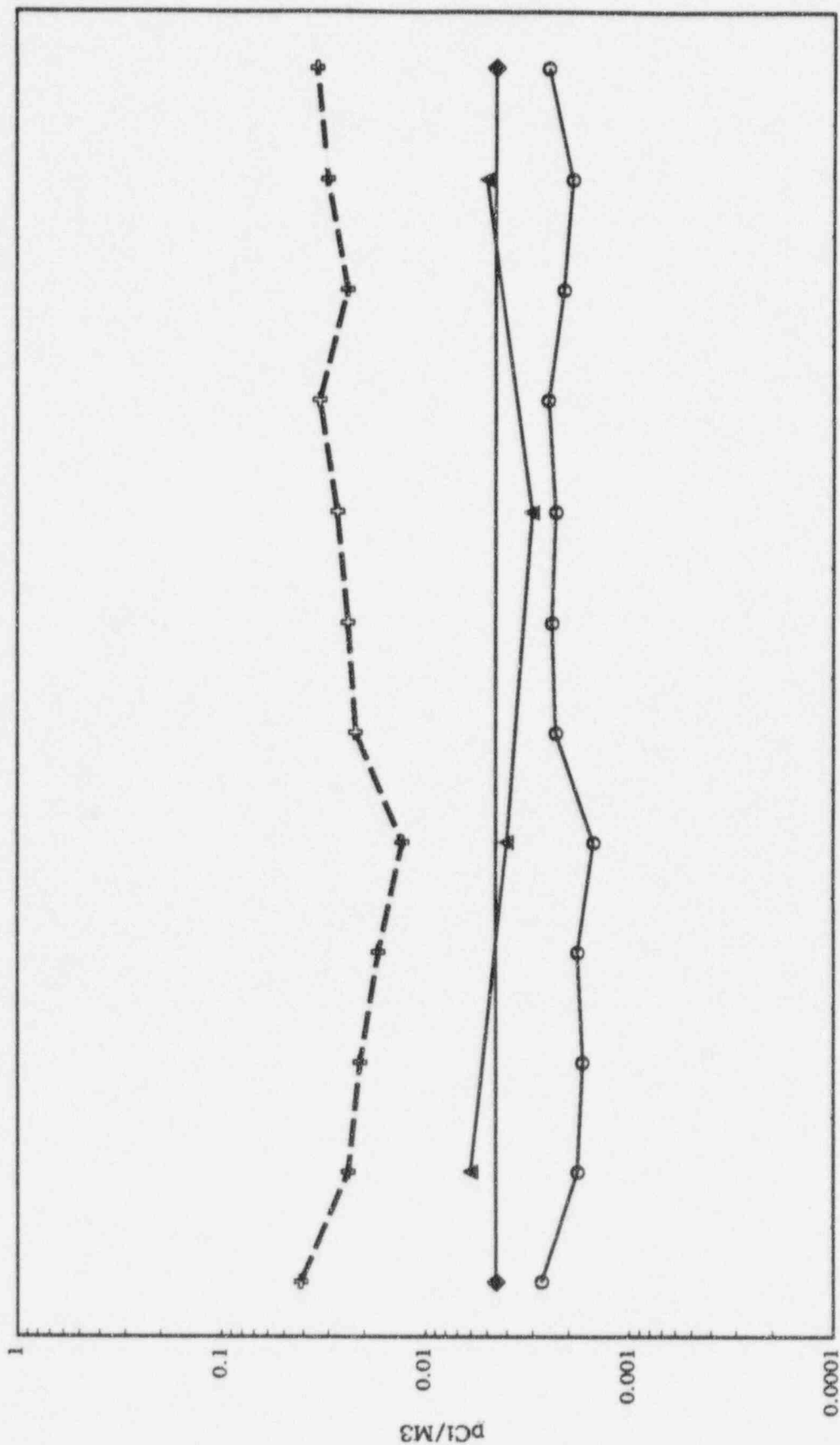


FIGURE D1
 AIR PARTICULATES - CNS
 ALPHA AND BETA MONTHLY AVERAGE - ALL LOCATIONS
 CE-144 QUARTERLY AVERAGE - ALL LOCATIONS



1995

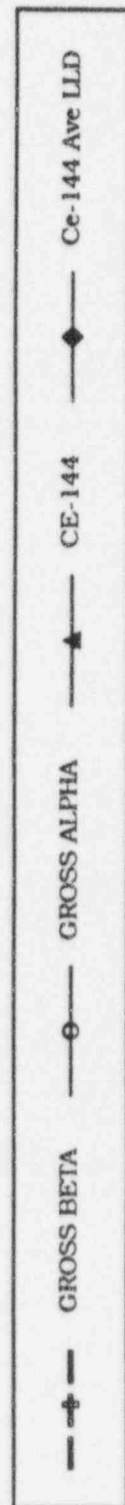


FIGURE D-2
AIR PARTICULATES
BETA MONTHLY AVERAGE - JEFFERSON CITY
MISSOURI ERAMS EPA

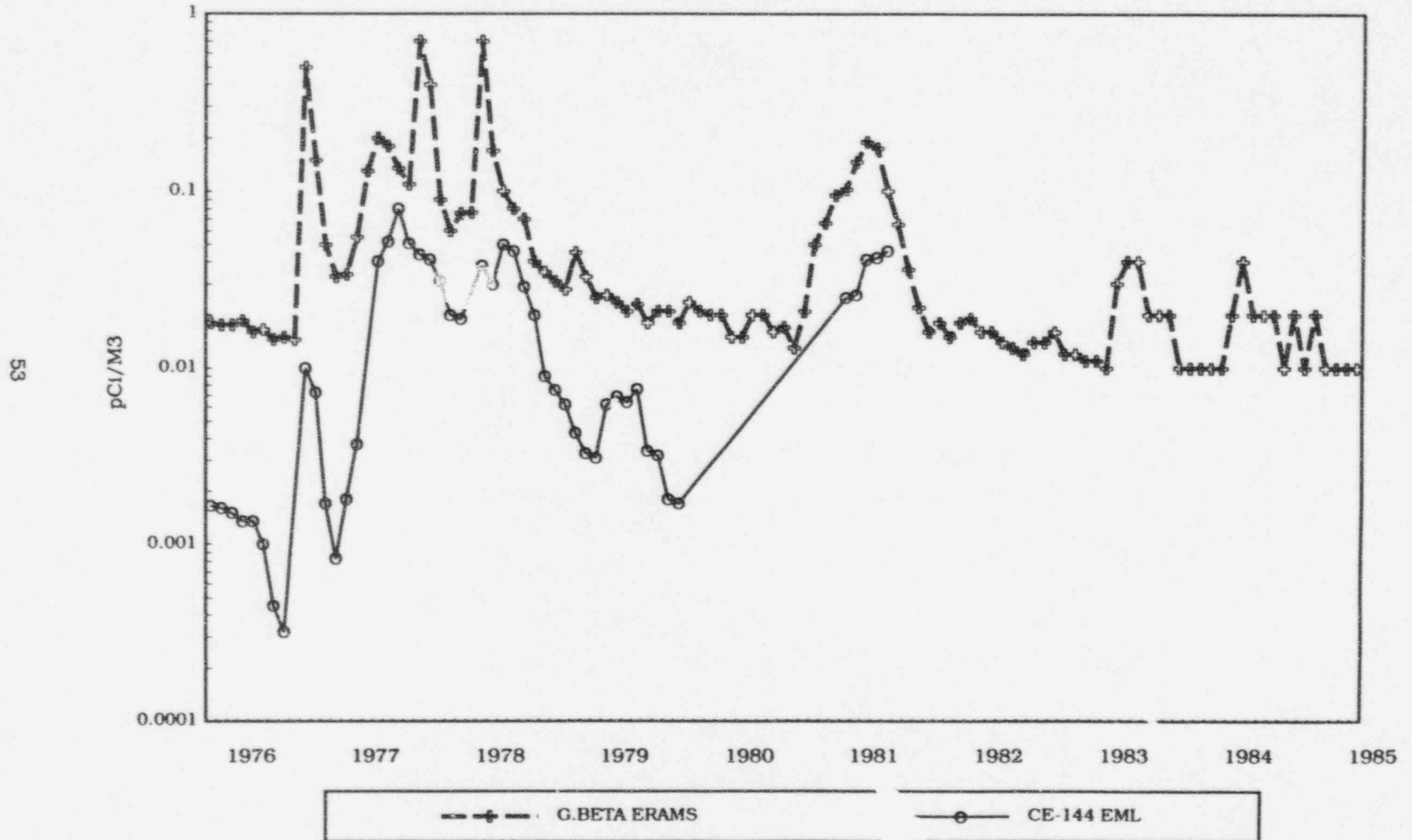


FIGURE D-2
AIR PARTICULATES
BETA MONTHLY AVERAGE - JEFFERSON CITY
MISSOURI ERAMS EPA

54

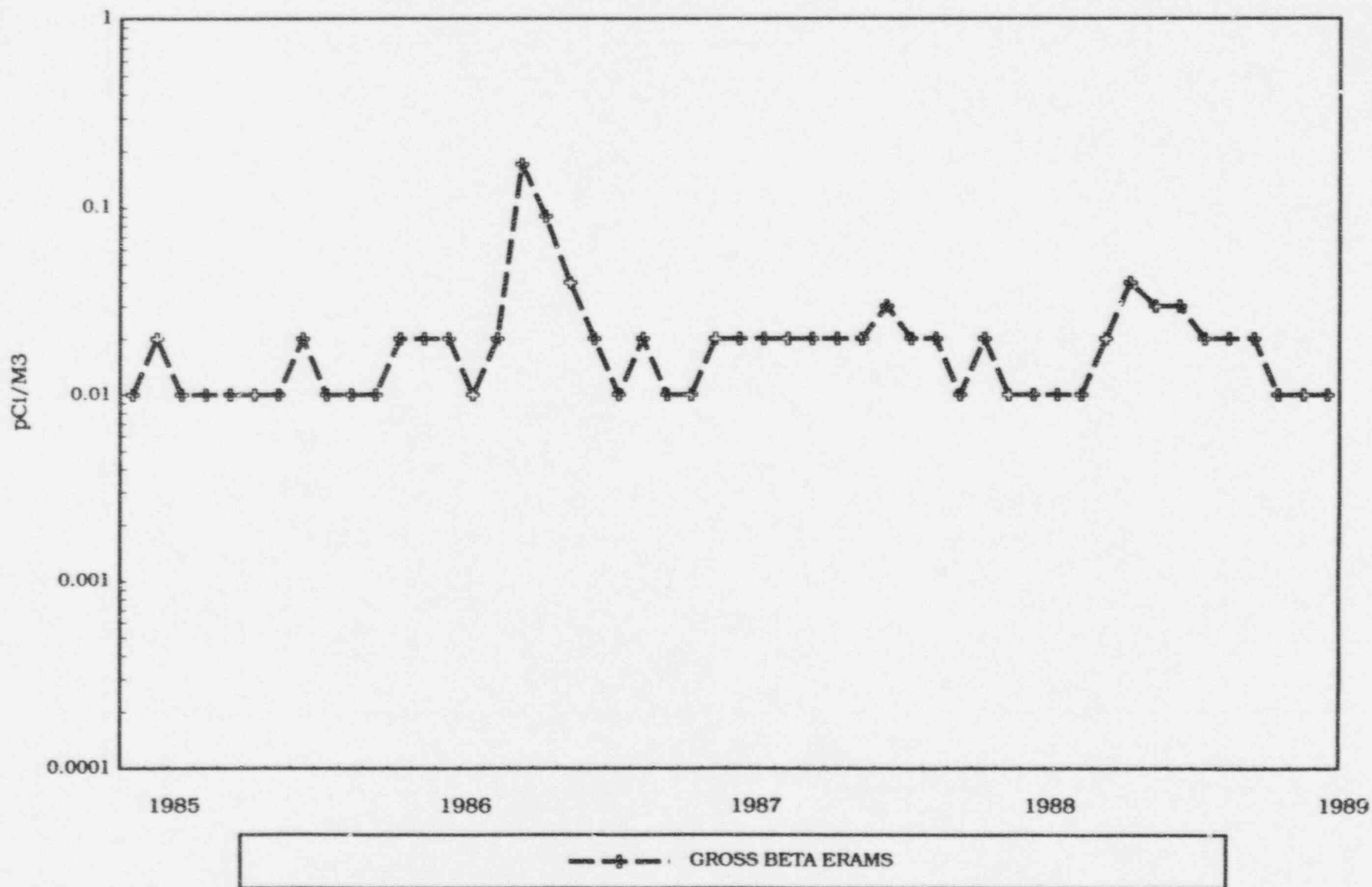


TABLE D-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE OF WEEKLY AIR PARTICULATE FILTERS
pCi/Cu. M.

SAMPLE NUCLIDE	STATION NUMBER		FIRST QUARTER 01/03-03/28	SECOND QUARTER 03/28-06/27	THIRD QUARTER 06/27-10/03	FOURTH QUARTER 10/03-01/02
BE-7	01-10	Meanstd.dev. det./total range	1.15 ± 0.2 E-01 10/10 (0.94-1.52)E-01	1.66 ± 0.2 E-01 10/10 (1.32-1.85)E-01	1.58 ± 0.3 E-01 10/10 (1.17-2.20)E-01	9.48 ± 1.04E-02 10/10 (0.87-1.22)E-01
K-40	01-10	Meanstd.dev. det./total range	3.08 ± 0.64E-02 1/10 --	2.60 ± 2.0 E-02 5/10 (0.093-4.95)E-02	4.89 ± 0.76E-02 1/10 --	2.29 ± 2.16E-02 2/10 (0.77-3.82)E-02
I-131 (by gamma spectroscopy)	01-10	Meanstd.dev. det./total range	L.T. 2. E-01 0/10 --	L.T. 9. E-02 0/10 --	L.T. 1. E-01 0/10 --	L.T. 1. E-01 0/10 --
Cs-134	01-10	Meanstd.dev. det./total range	L.T. 9. E-04 0/10 --	L.T. 7. E-04 0/10 --	L.T. 7. E-04 0/10 --	L.T. 7. E-04 0/10 --
Cs-137	01-10	Meanstd.dev. det./total range	L.T. 9. E-04 0/10 --	L.T. 6. E-04 0/10 --	L.T. 6. E-04 0/10 --	L.T. 7. E-04 0/10 --
Ra-226	01-10	Meanstd.dev. det./total range	L.T. 1. E-02 0/10 --	L.T. 1. E-02 0/10 --	L.T. 9. E-03 0/10 --	L.T. 1. E-02 0/10 --
Th-228	01-10	Meanstd.dev. det./total range	L.T. 1. E-03 0/10 --	L.T. 1. E-03 0/10 --	L.T. 1. E-03 0/10 --	L.T. 1. E-03 0/10 --

TABLE D-2

1995 QUARTERLY REPORT

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AIRBORNE

COMPOSITE OF WEEKLY AIR PARTICULATE FILTERS - PCI/CU.M.

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/03-03/28	SECOND QUARTER 03/28-06/27	THIRD QUARTER 06/27-10/03	FOURTH QUARTER 10/03-01/02
BE-7	1-10	1.15 ± 0.2 E-01 (10/10)	1.66 ± 0.2 E-01 (10/10)	1.58 ± 0.3 E-01 (10/10)	9.48 ± 1.04E-02 (10/10)
K-40	1-10	3.08 ± 0.64E-02 (1/10)	2.60 ± 2.0 E-02 (5/10)	4.89 ± 0.76E-02 (1/10)	2.29 ± 2.16E-02 (2/10)
Mn-54	1-10	L.T. 1. E-03 (0/10)	L.T. 7. E-04 (0/10)	L.T. 7. E-04 (0/10)	L.T. 6. E-04 (0/10)
Co-58	1-10	L.T. 1. E-03 (0/10)	L.T. 1. E-03 (0/10)	L.T. 1. E-03 (0/10)	L.T. 9. E-04 (0/10)
Fe-59	1-10	L.T. 4. E-03 (0/10)	L.T. 3. E-03 (0/10)	L.T. 3. E-03 (0/10)	L.T. 3. E-03 (0/10)
Co-60	1-10	L.T. 9. E-04 (0/10)	L.T. 7. E-04 (0/10)	L.T. 6. E-04 (0/10)	L.T. 6. E-04 (0/10)
Zn-65	1-10	L.T. 2. E-03 (0/10)	L.T. 2. E-03 (0/10)	L.T. 2. E-03 (0/10)	L.T. 2. E-03 (0/10)
Zr-95	1-10	L.T. 2. E-03 (0/10)	L.T. 1. E-03 (0/10)	L.T. 1. E-03 (0/10)	L.T. 1. E-03 (0/10)
Ru-103	1-10	L.T. 3. E-03 (0/10)	L.T. 2. E-03 (0/10)	L.T. 2. E-03 (0/10)	L.T. 2. E-03 (0/10)
Ru-106	1-10	L.T. 9. E-03 (0/10)	L.T. 7. E-03 (0/10)	L.T. 6. E-03 (0/10)	L.T. 6. E-03 (0/10)
I-131	1-10	L.T. 2. E-01 (0/10)	L.T. 9. E-02 (0/10)	L.T. 1. E-01 (0/10)	L.T. 1. E-01 (0/10)
Cs-134	1-10	L.T. 9. E-04 (0/10)	L.T. 7. E-04 (0/10)	L.T. 7. E-04 (0/10)	L.T. 7. E-04 (0/10)
Cs-137	1-10	L.T. 9. E-04 (0/10)	L.T. 6. E-04 (0/10)	L.T. 6. E-04 (0/10)	L.T. 7. E-04 (0/10)
Ba-140	1-10	L.T. 3. E-02 (0/10)	L.T. 2. E-02 (0/10)	L.T. 2. E-02 (0/10)	L.T. 2. E-02 (0/10)
Ce-141	1-10	L.T. 4. E-03 (0/10)	L.T. 2. E-02 (0/10)	L.T. 3. E-03 (0/10)	L.T. 3. E-02 (0/10)
Ce-144	1-10	L.T. 6. E-03 (0/10)	L.T. 4. E-03 (0/10)	L.T. 3. E-03 (0/10)	L.T. 5. E-03 (0/10)
Ra-226	1-10	L.T. 1. E-02 (0/10)	L.T. 1. E-02 (0/10)	L.T. 9. E-03 (0/10)	L.T. 1. E-02 (0/10)
Th-228	1-10	L.T. 1. E-03 (0/10)	L.T. 1. E-03 (0/10)	L.T. 1. E-03 (0/10)	L.T. 1. E-03 (0/10)

E. FISH (See Tables E-1, E-2)

STATIONS 28, 35

Fish samples were collected during the summer and fall at the above stations and analyzed for gross beta, Sr-89, Sr-90, and gamma emitting isotopes. An attempt was made to collect a middle-top feeding fish (carp) and a bottom feeding fish (catfish). Both types of fish were collected during the summer and fall sampling periods.

The gross beta and Sr-90 activities were similar to the levels of previous years. Strontium-90 was detected in one of nine samples at a level of 0.0085 pCi/gram, wet, which is below the normal level of detection. There were no detections of Sr-89. Naturally occurring K-40 was detected in all samples at an average level of 3.08 pCi/gm, wet.

There were no detections of Cs-137 during 1995.

Plotted in Figure E-1 are the radionuclides gross beta, K-40, Sr-90 and Cs-137 monitored in fish samples which show no appreciable change from 1977 through 1995. The plot of the nuclides shows that most of the gross beta activity is due to the terrestrial nuclide K-40.

FIGURE E-1
FISH
SEMIANNUAL AVERAGE - ALL LOCATIONS
GR-B K-40 SR-90 CS-137

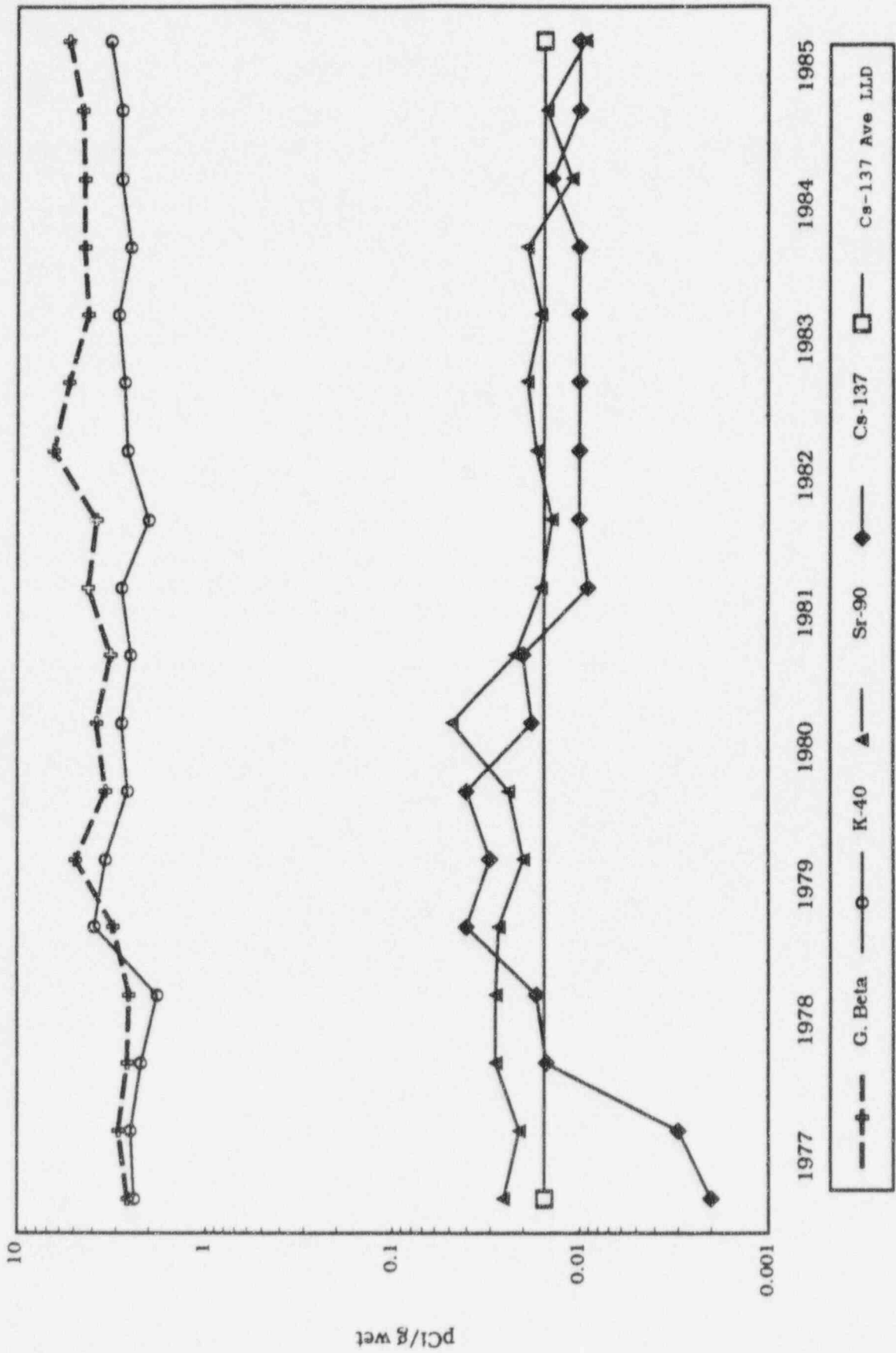


FIGURE E-1
FISH
SEMIANNUAL AVERAGE - ALL LOCATIONS
GR-B K-40 SR-90 CS-137

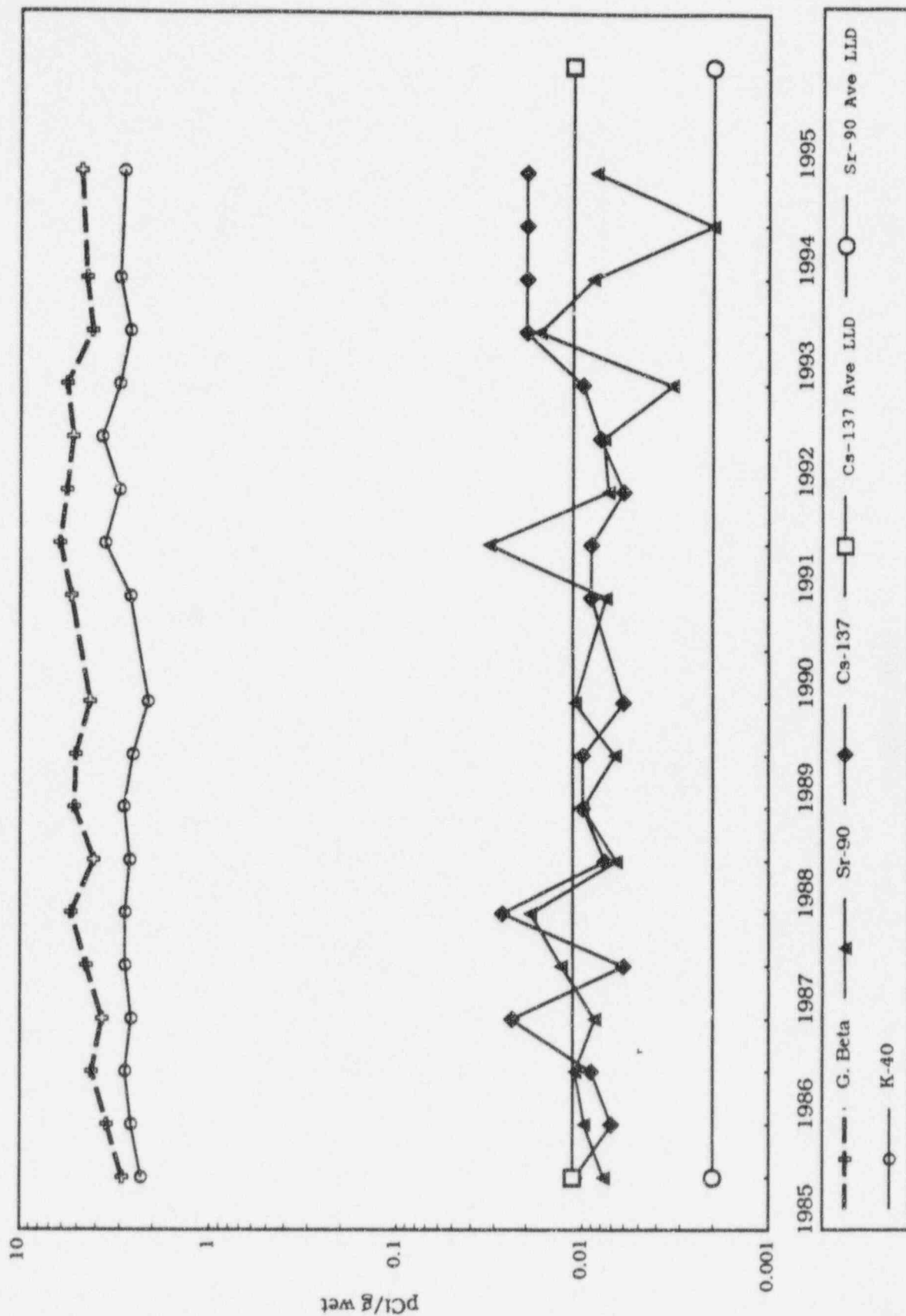


TABLE E-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
FISH - PCI/GM, WET

SAMPLE NUCLIDE	STATION NUMBER		FIRST QUARTER	SECOND QUARTER	THIRD QUARTER 07/25	FOURTH QUARTER 10/11,10/12
Gross Beta	28, 35	Meanstd.dev. det./total range			4.8 ± 0.3 E 00 5/5 (4.6-5.2)E 00	4.8 ± 0.3 E 00 4/4 (4.5-5.1)E 00
Sr-89	28, 35	Meanstd.dev. det./total range			L.T. 5. E-03 0/5 --	L.T. 1. E-02 0/4 --
Sr-90	28, 35	Meanstd.dev. det./total range			L.T. 2. E-03 0/5 --	8.5 ± 2.5 E-03 1/4 --
8 K-40	28, 35	Meanstd.dev. det./total range			3.27±0.5 E 00 5/5 (2.9-4.2)E 00	2.84±0.5 E 00 4/4 (2.2-3.1)E 00
Co-60	28, 35	Meanstd.dev. det./total range			L.T. 2. E-02 0/5 --	L.T. 2. E-02 0/4 --
I-131	28, 35	Meanstd.dev. det./total range			L.T. 5. E-02 0/5 --	L.T. 5. E-02 0/4 --
Cs-134	28, 35	Meanstd.dev. det./total range			L.T. 2. E-02 0/5 --	L.T. 2. E-02 0/4 --
Cs-137	28, 35	Meanstd.dev. det./total range			L.T. 2. E-02 0/5 --	L.T. 2. E-02 0/4 --

TABLE E-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
FISH - PCI/GM, WET

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER	SECOND QUARTER 06/08, 06/09	THIRD QUARTER 07/25	FOURTH QUARTER 10/11, 10/12
BE-7	28, 35			L.T. 2. E-01 (0/5)	L.T. 2. E-01 (0/4)
K-40	28, 35			3.27± 0.5 E 00 (5/5)	2.84± 0.5 E 00 (4/4)
Mn-54	28, 35			L.T. 2. E-02 (0/5)	L.T. 2. E-02 (0/4)
Co-58	28, 35			L.T. 2. E-02 (0/5)	L.T. 2. E-02 (0/4)
Fe-59	28, 35			L.T. 4. E-02 (0/5)	L.T. 4. E-02 (0/4)
Co-60	28, 35			L.T. 2. E-02 (0/5)	L.T. 2. E-02 (0/4)
Zn-65	28, 35			L.T. 4. E-02 (0/5)	L.T. 4. E-02 (0/4)
Zr-95	28, 35			L.T. 2. E-02 (0/5)	L.T. 2. E-02 (0/4)
Ru-103	28, 35			L.T. 2. E-02 (0/5)	L.T. 2. E-02 (0/4)
Ru-106	28, 35			L.T. 1. E-01 (0/5)	L.T. 2. E-01 (0/4)
I-131	28, 35			L.T. 5. E-02 (0/5)	L.T. 5. E-02 (0/4)
Cs-134	28, 35			L.T. 2. E-02 (0/5)	L.T. 2. E-02 (0/4)
Cs-137	28, 35			L.T. 2. E-02 (0/5)	L.T. 2. E-02 (0/4)
Ba-140	28, 35			L.T. 3. E-02 (0/5)	L.T. 3. E-02 (0/4)
Ce-141	28, 35			L.T. 3. E-02 (0/5)	L.T. 3. E-02 (0/4)
Ce-144	28, 35			L.T. 1. E-01 (0/5)	L.T. 1. E-01 (0/4)
Ra-226	28, 35			L.T. 3. E-01 (0/5)	L.T. 3. E-01 (0/4)
Th-228	28, 35			L.T. 3. E-02 (0/5)	L.T. 3. E-02 (0/4)

F. MILK (See Tables F-1, F-2)

STATION 61 and 99 (NEAREST PRODUCER)

Milk samples from the nearest producer Station 99, 10.25 miles, 189 degrees from the elevated release point of CNS and Station 61, 3.5 miles, 326 degrees were collected once every 15 days in peak pasture season and once every 31 days the rest of the year. The monthly samples collected January through May and October through December were analyzed for I-131 by chemical separation, for elemental calcium and strontium 89 and 90. In addition they were analyzed for gamma emitting isotopes on a high resolution gamma spectrometer. The samples collected every 15 days during peak pasture season were analyzed upon receipt for I-131 and gamma emitting isotopes. A monthly composite was prepared and analyzed as described above.

There were no detections of I-131 in the twenty-six samples analyzed by chemical separation. There were no detections of Sr-89 in the samples analyzed. Strontium-90 was detected at an average level of 1.2 pCi/liter, which is a normal environmental level. Elemental calcium was found at an average level of 1.8 mg/liter. Potassium-40, a naturally occurring isotope, was detected at an average level of 1310 pCi/liter.

Cesium-137 was not detected in any of the samples analyzed. There was no indication of an effect on the milk of the producer nearest the plant from the operations of CNS.

Shown in Figure F-1 and F-2 are the plots of radionuclides monitored from 1977 through 1995 in milk samples from producers nearest the reactor. The levels of K-40, elemental calcium and Sr-90 remained stable. There were no detections of I-131, Sr-89 or Cs-137. This indicates no effect on milk samples from the operations of CNS.

FIGURE F-1
MILK - NEAREST PRODUCER
QUARTERLY AVERAGE - STATION 61
K-40 I-131 CS-137

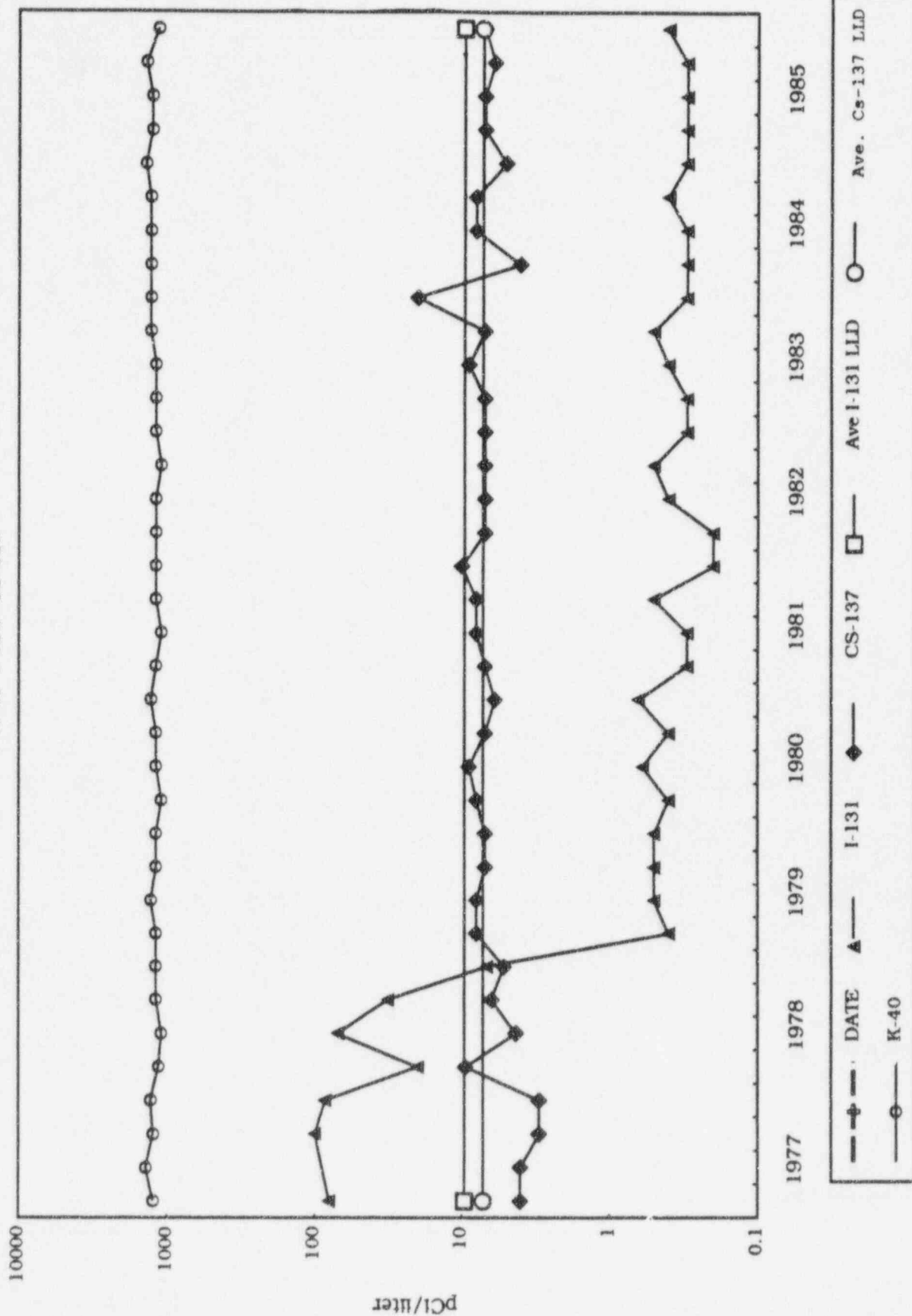


FIGURE F-1
MILK- NEAREST PRODUCER
QUARTERLY AVERAGE - STATION 99
K-40 I-131 CS-137

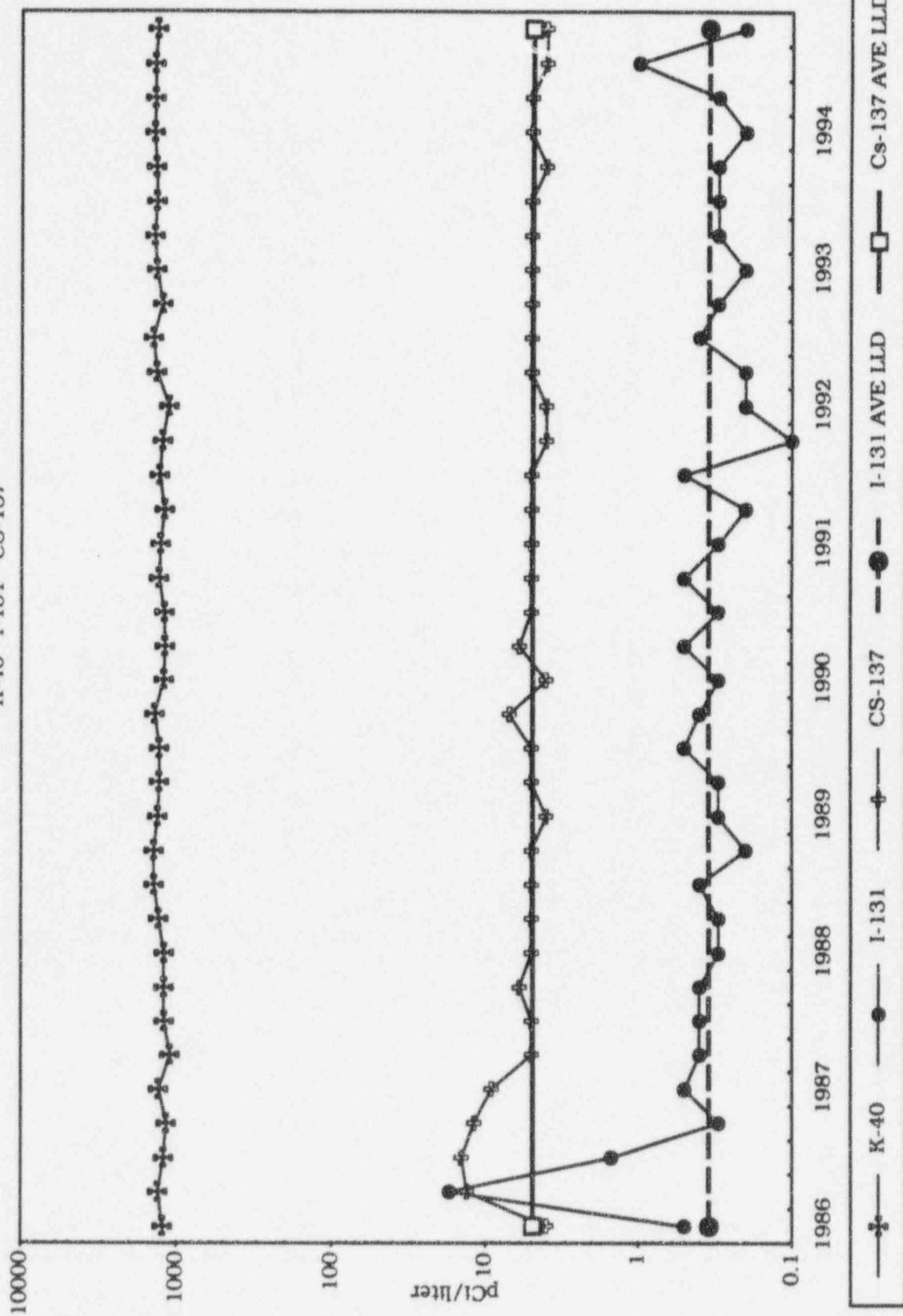


FIGURE F-1
M.L.K. - NEAREST PRODUCER
QUARTERLY AVERAGE - STATION 99
K-40 I-131 CS-137

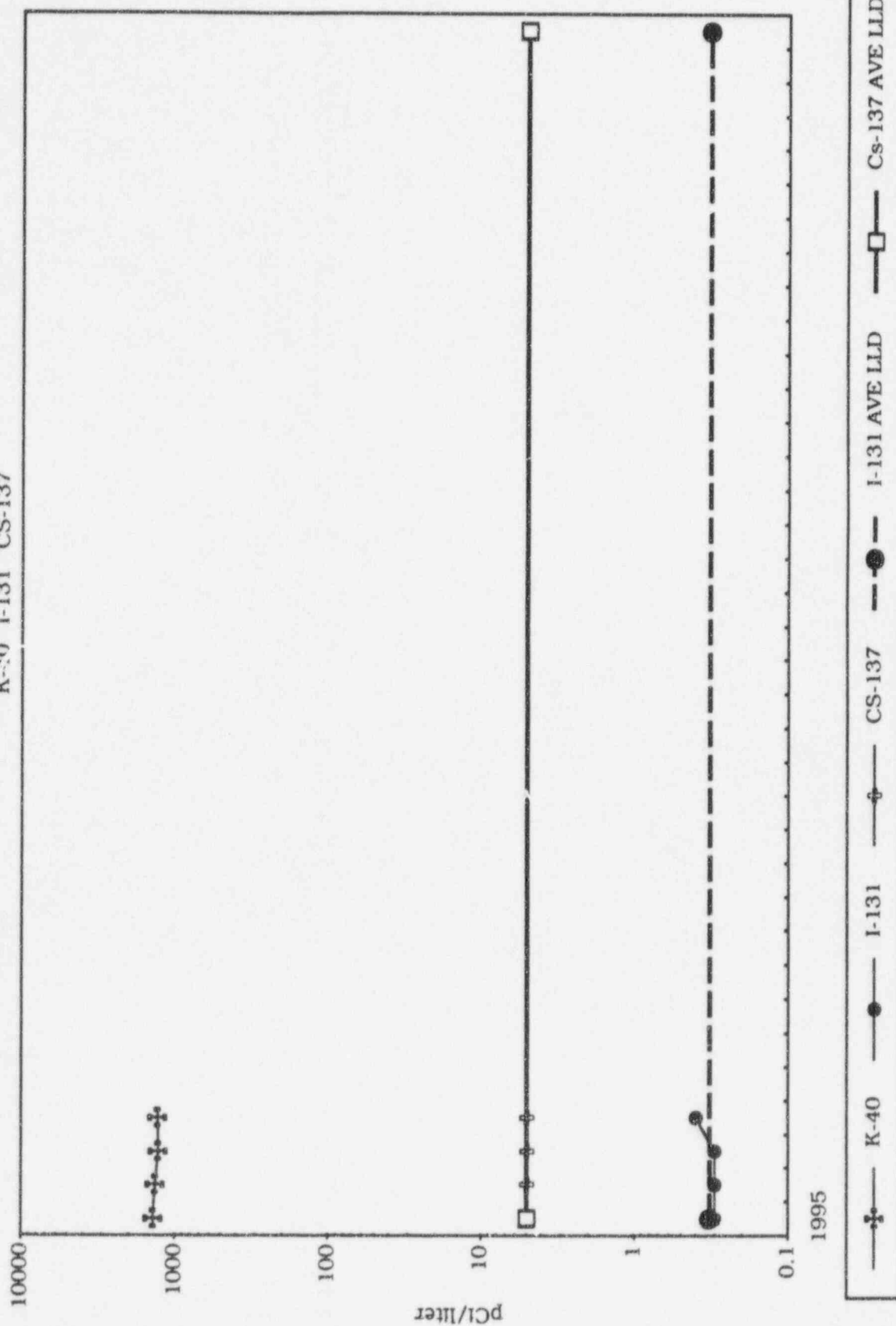


FIGURE F-2
MILK- NEAREST PRODUCER
QUARTERLY AVERAGE - STATION 61
SR-89 SR-90 ELEM. CA.

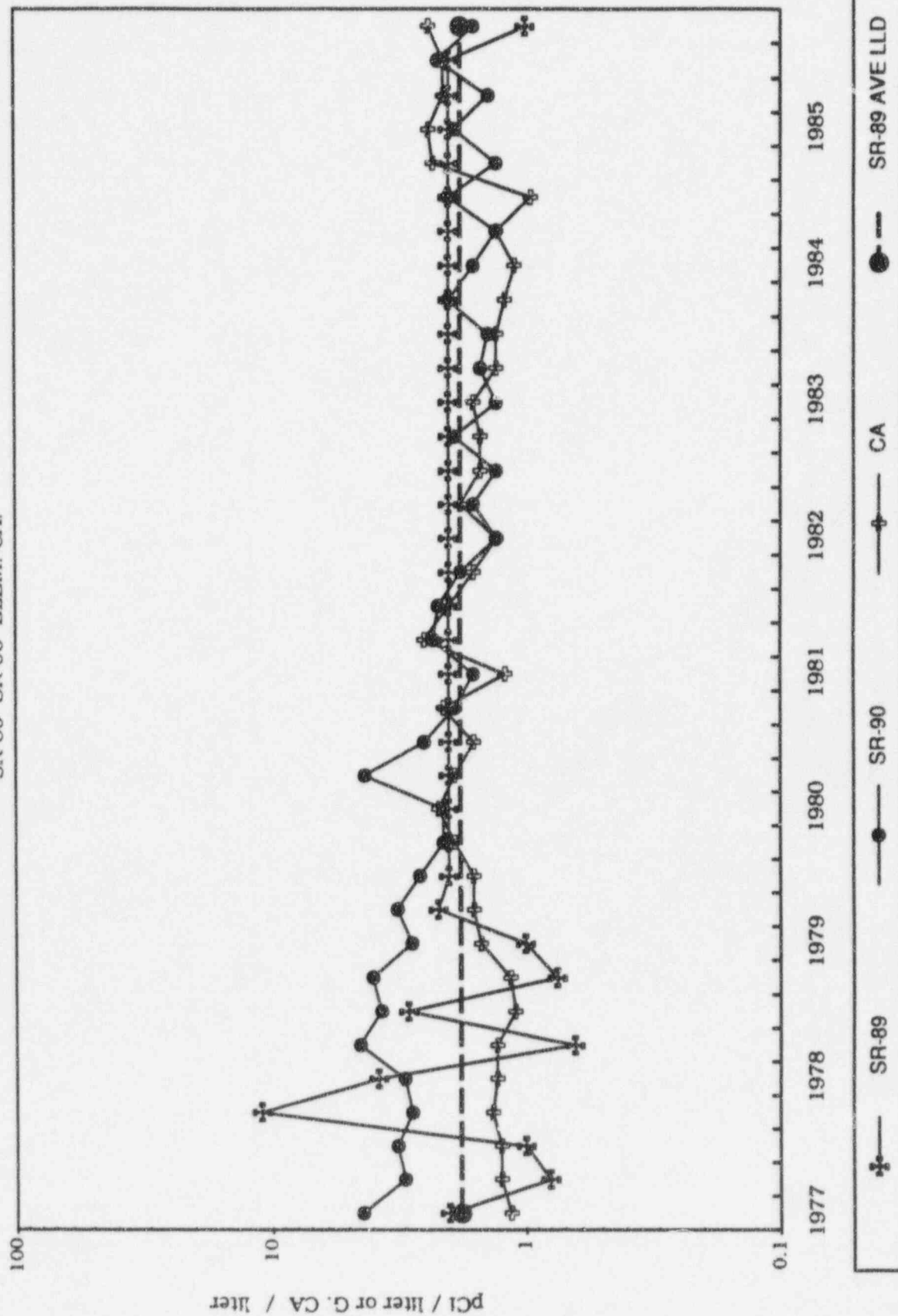


FIGURE F-2
MILK- NEAREST PRODUCER
QUARTERLY AVERAGE - STATION 99
SR-89 SR-90 ELEM. CA.

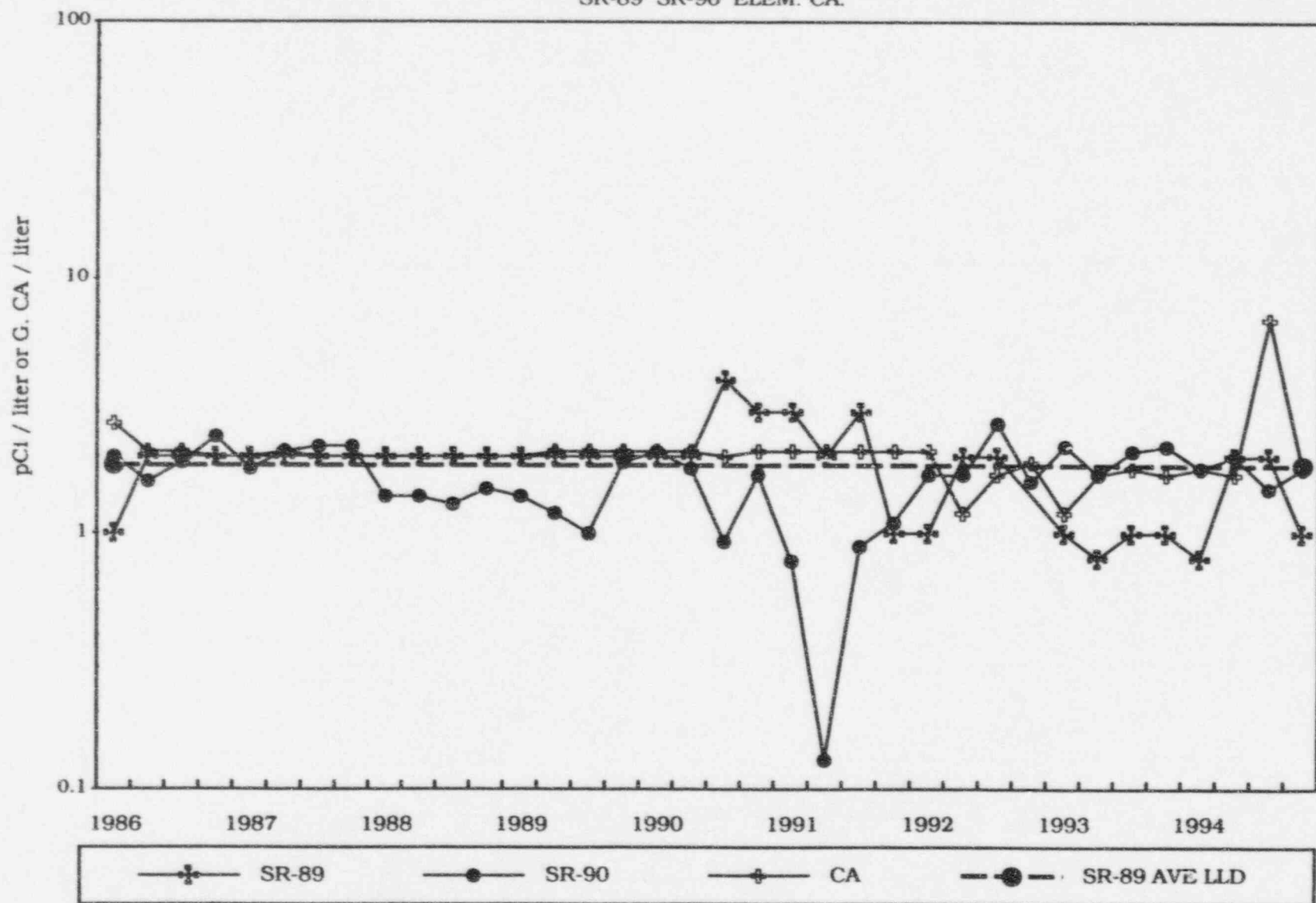


FIGURE F-2
MILK- NEAREST PRODUCER
QUARTERLY AVERAGE - STATION 99
SR-89 SR-90 ELEM. CA.

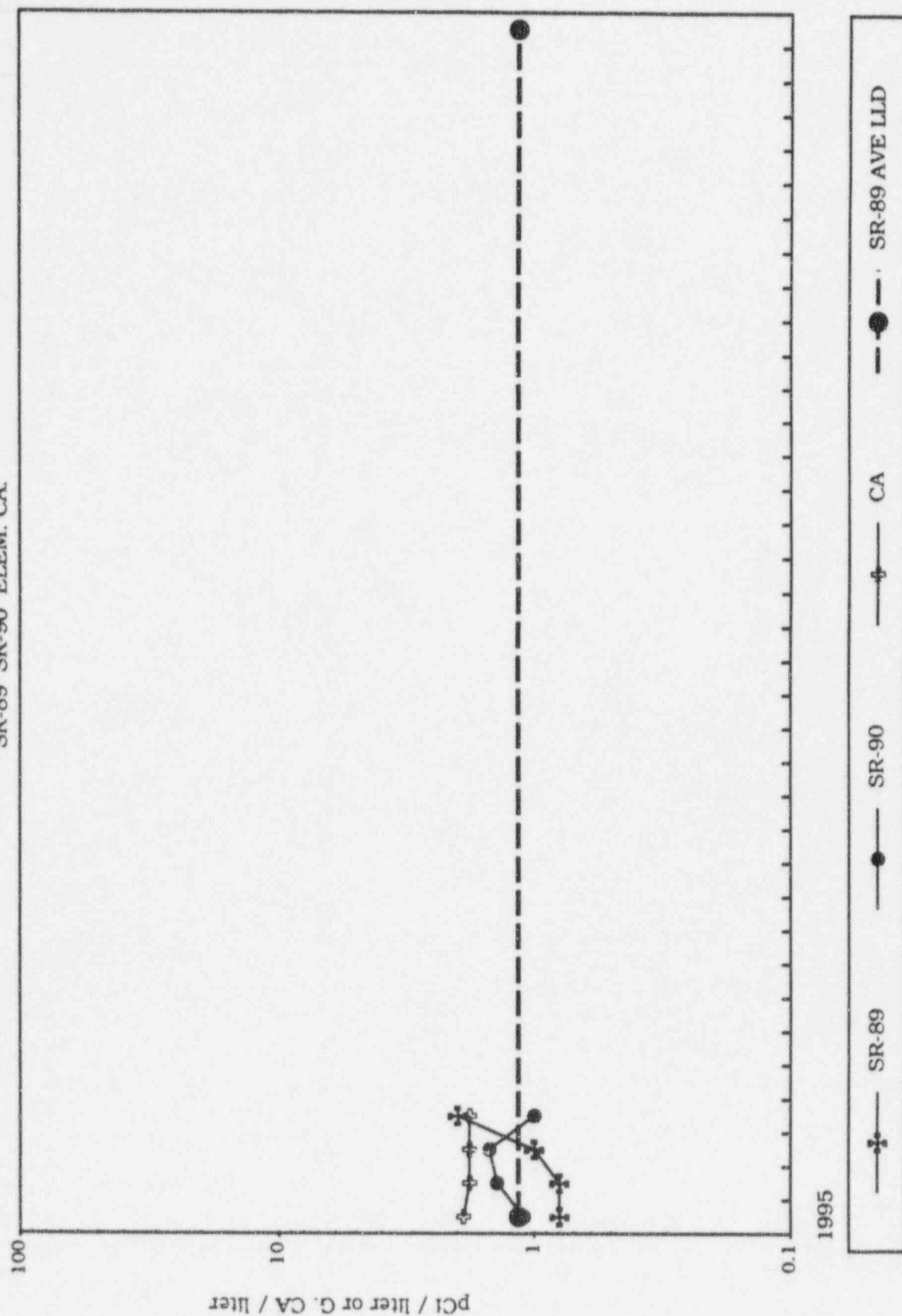


TABLE F-1

1995 QUARTERLY REPORT

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - INGESTION

MILK - NEAREST PRODUCER - PCI/LITER

SAMPLE NUCLIDE	STATION NUMBER		FIRST QUARTER 01/03-03/07	SECOND QUARTER 04/04-06/20	THIRD QUARTER 07/05-09/19	FOURTH QUARTER 10/03-12/05
SR-89	61, 99	Meanistd.dev. det./total range	L.T. 8. E-01 0/4 --	L.T. 8. E-01 0/3 --	L.T. 1. E 00 0/4 --	L.T. 2. E 00 0/6 --
SR-90	61, 99	Meanistd.dev. det./total range	1.1 ± 0.2 E 00 4/4 (0.73-1.2)E 00	1.4 ± 0.6 E 00 3/3 (1.0-2.0)E 00	1.5 ± 0.3 E 00 4/4 (1.0-1.8)E 00	1.0 ± 0.1 E 00 6/6 (0.91-1.2)E 00
I-131 by chemical separation	61, 99	Meanistd.dev. det./total range	L.T. 3. E-01 0/4 --	L.T. 3. E-01 0/5 --	L.T. 3. E-01 0/11 --	L.T. 4. E-01 0/6 --
Ca gm/liter	61, 99	Meanistd.dev. det./total range	1.9 ± 0.2 E 00 4/4 (1.7-2.1) E 00	1.8 ± 0.1 E 00 3/3 (1.7-1.8)E 00	1.8 ± 0.1 E 00 4/4 (1.7-1.8)E 00	1.8 ± 0.1 E 00 6/6 (1.7-1.9)E 00
K-40	61, 99	Meanistd.dev. det./total range	1.39 ± 0.06E 03 4/4 (1.35-1.47)E 03	1.34 ± 0.05E 03 5/5 (1.27-1.38)E 03	1.28±0.13 E 03 11/11 (1.06-1.51)E 03	1.29±0.105E 03 6/6 (1.2-1.5)E 03
I-131 by gamma spectroscopy	61, 99	Meanistd.dev. det./total range	L.T. 8. E 00 0/4 --	L.T. 9. E 00 0/5 --	L.T. 8. E 00 0/11 --	L.T. 5. E 00 0/6 --
Cs-134	61, 99	Meanistd.dev. det./total range	L.T. 5. E 00 0/4 --	L.T. 5. E 00 0/5 --	L.T. 4. E 00 0/11 --	L.T. 4. E 00 0/6 --
Cs-137	61, 99	Meanistd.dev. det./total range	L.T. 5. E 00 0/4 --	L.T. 5. E 00 0/5 --	L.T. 5. E 00 0/11 --	L.T. 5. E 00 0/6 --

TABLE F-2
 1995 QUARTERLY REPORT
 NEBRASKA PUBLIC POWER DISTRICT
 COOPER NUCLEAR STATION
 EXPOSURE PATHWAY - INGESTION
 MILK - NEAREST PRODUCER - PCI/LITER

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/03-03/07	SECOND QUARTER 04/04-06/20	THIRD QUARTER 07/05-09/19	FOURTH QUARTER 10/03-12/05
BE-7	61, 99	L.T. 4. E 01 (0/4)	L.T. 4. E 01 (0/5)	L.T. 4. E 01 (0/11)	L.T. 3. E 01 (0/6)
K-40	61, 99	1.39±0.06 E 03 (4/4)	1.34±0.05 E 03 (5/5)	1.28±0.13 E 03 (11/11)	1.29±0.105E 03 (6/6)
Mn-54	61, 99	L.T. 4. E 00 (0/4)	L.T. 4. E 00 (0/5)	L.T. 4. E 00 (0/11)	L.T. 4. E 00 (0/6)
Co-58	61, 99	L.T. 4. E 00 (0/4)	L.T. 4. E 00 (0/5)	L.T. 4. E 00 (0/11)	L.T. 4. E 00 (0/6)
Fe-59	61, 99	L.T. 1. E 01 (0/4)	L.T. 9. E 00 (0/5)	L.T. 9. E 00 (0/11)	L.T. 9. E 00 (0/6)
Co-60	61, 99	L.T. 5. E 00 (0/4)	L.T. 4. E 00 (0/5)	L.T. 5. E 00 (0/11)	L.T. 4. E 00 (0/6)
Zn-65	61, 99	L.T. 1. E 01 (0/4)	L.T. 1. E 01 (0/5)	L.T. 1. E 01 (0/11)	L.T. 1. E 01 (0/6)
Zr-95	61, 99	L.T. 5. E 00 (0/4)	L.T. 4. E 00 (0/5)	L.T. 4. E 00 (0/11)	L.T. 4. E 00 (0/6)
Ru-103	61, 99	L.T. 5. E 00 (0/4)	L.T. 4. E 00 (0/5)	L.T. 4. E 00 (0/11)	L.T. 4. E 00 (0/6)
Ru-106	61, 99	L.T. 4. E 01 (0/4)	L.T. 4. E 01 (0/5)	L.T. 4. E 01 (0/11)	L.T. 3. E 01 (0/6)
I-131	61, 99	L.T. 8. E 00 (0/4)	L.T. 9. E 00 (0/5)	L.T. 8. E 00 (0/11)	L.T. 5. E 00 (0/6)
Cs-134	61, 99	L.T. 5. E 00 (0/4)	L.T. 5. E 00 (0/5)	L.T. 4. E 00 (0/11)	L.T. 4. E 00 (0/6)
Cs-137	61, 99	L.T. 5. E 00 (0/4)	L.T. 5. E 00 (0/5)	L.T. 5. E 00 (0/11)	L.T. 5. E 00 (0/6)
Ba-140	61, 99	L.T. 6. E 00 (0/4)	L.T. 6. E 00 (0/5)	L.T. 6. E 00 (0/11)	L.T. 5. E 00 (0/6)
Ce-141	61, 99	L.T. 9. E 00 (0/4)	L.T. 9. E 00 (0/5)	L.T. 9. E 00 (0/11)	L.T. 8. E 00 (0/6)
Ce-144	61, 99	L.T. 4. E 01 (0/4)	L.T. 4. E 01 (0/5)	L.T. 4. E 01 (0/11)	L.T. 3. E 01 (0/6)
Ra-226	61, 99	L.T. 1. E 02 (0/4)	L.T. 1. E 02 (0/5)	L.T. 1. E 02 (0/11)	L.T. 1. E 02 (0/6)
Th-228	61, 99	L.T. 1. E 01 (0/4)	L.T. 9. E 00 (0/5)	L.T. 8. E 00 (0/11)	L.T. 9. E 00 (0/6)

G. MILK (SEE TABLES G-1, G-2)

STATIONS 42, 100 (OTHER PRODUCERS)

Milk samples were collected quarterly from other producers, Station 42, 12.9 miles from the plant and Station 100 which is 11.5 miles from the plant. The samples were analyzed for I-131 by chemical separation, for elemental calcium, for Sr-89 and 90 and for gamma emitting isotopes. There were no detections of I-131 in the eight samples monitored.

There were no detections of Sr-89. Strontium-90 was found at an average level of 1.5 pCi/liter. There were 1.8 mg of calcium per liter of milk. Potassium-40 was detected at an average level of 1360. pCi/liter. The strontium-90, K-40 and elemental calcium were at normal environmental levels and were similar to the results obtained from analyses of milk from the nearest producer. There were no detections of Cs-137 in the samples collected. It can be concluded that the operations of CNS had no effect on milk samples and thus no dose impact on the population.

The levels of radioactivities of the nuclides K-40, I-131 and Cs-137 are plotted on Figure G-1. Potassium-40 was at normal environmental levels as in previous years. There were no detections of I-131 or Cs-137. Figure G-2 shows that Sr-90 and elemental calcium are at a level comparable to previous years and there were no detections of Sr-89. These graphs indicate that there was no appreciable difference between the levels of activity of the nearest producer and the commercial producers. This indicated no effect on milk samples from the operations of CNS.

FIGURE G-1
MILK- COMMERCIAL PRODUCERS
QUARTERLY AVERAGE - ALL LOCATIONS
K-40 I-131 Cs-137

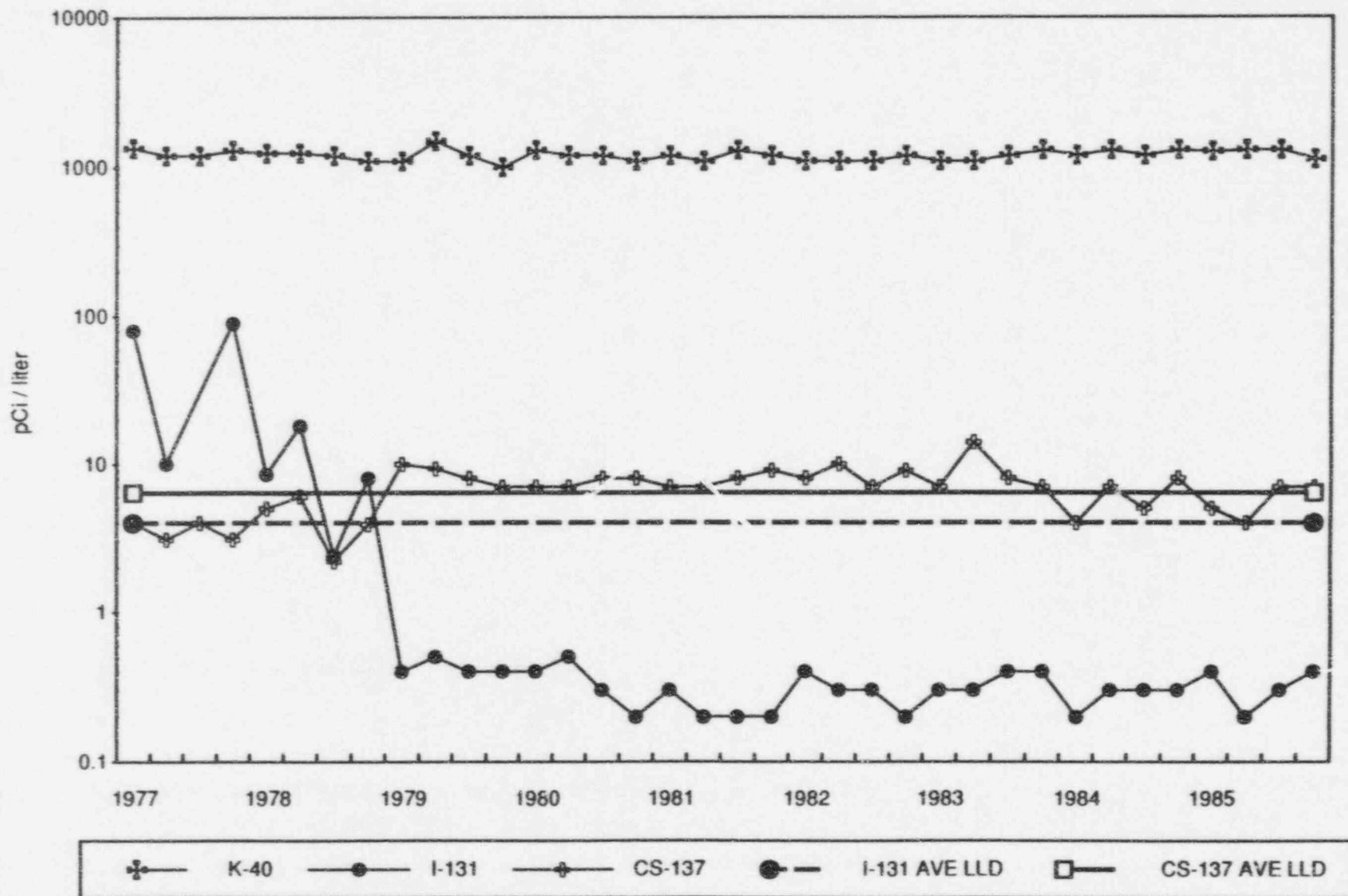


FIGURE G-1
MILK- COMMERCIAL PRODUCERS
QUARTERLY AVERAGE - ALL LOCATIONS
K-40 I-131 Cs-137

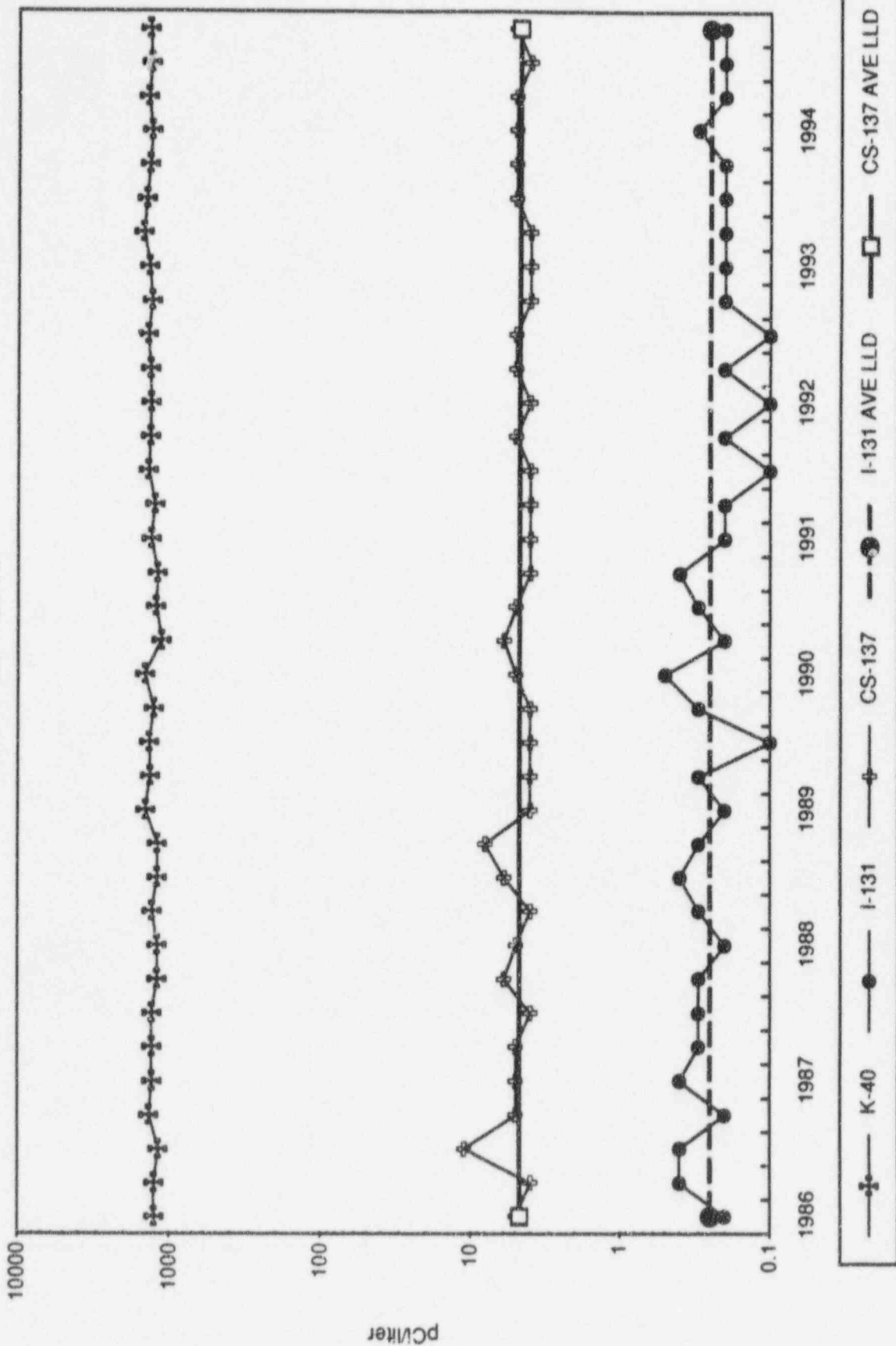


FIGURE G-1
MILK- COMMERCIAL PRODUCERS
QUARTERLY AVERAGE - ALL LOCATIONS
K-40 I-131 Cs-137

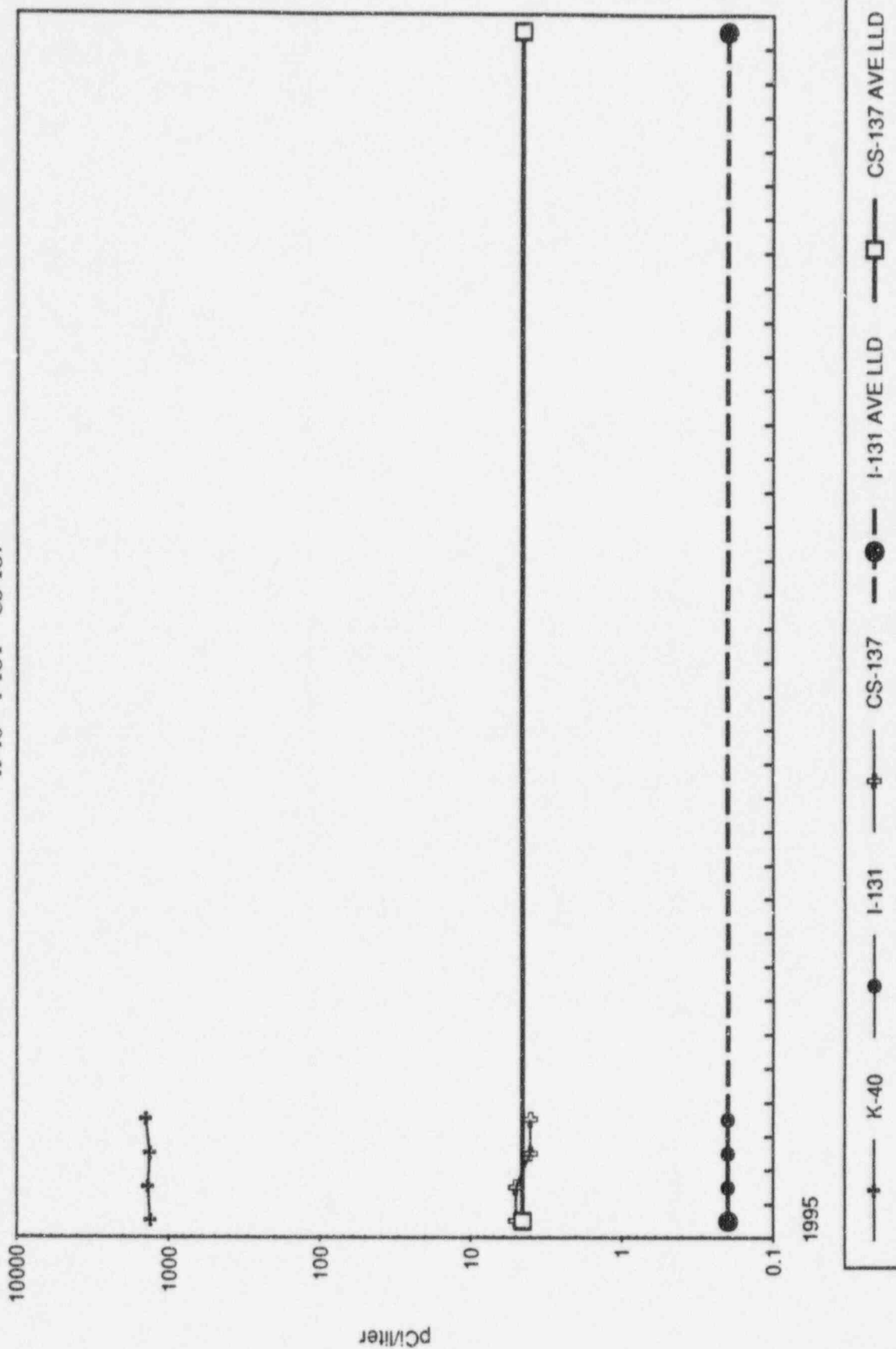


FIGURE G-2
MILK- COMMERCIAL PRODUCERS
QUARTERLY AVERAGE - ALL LOCATIONS
SR-89 SR-90 ELEM. CA.

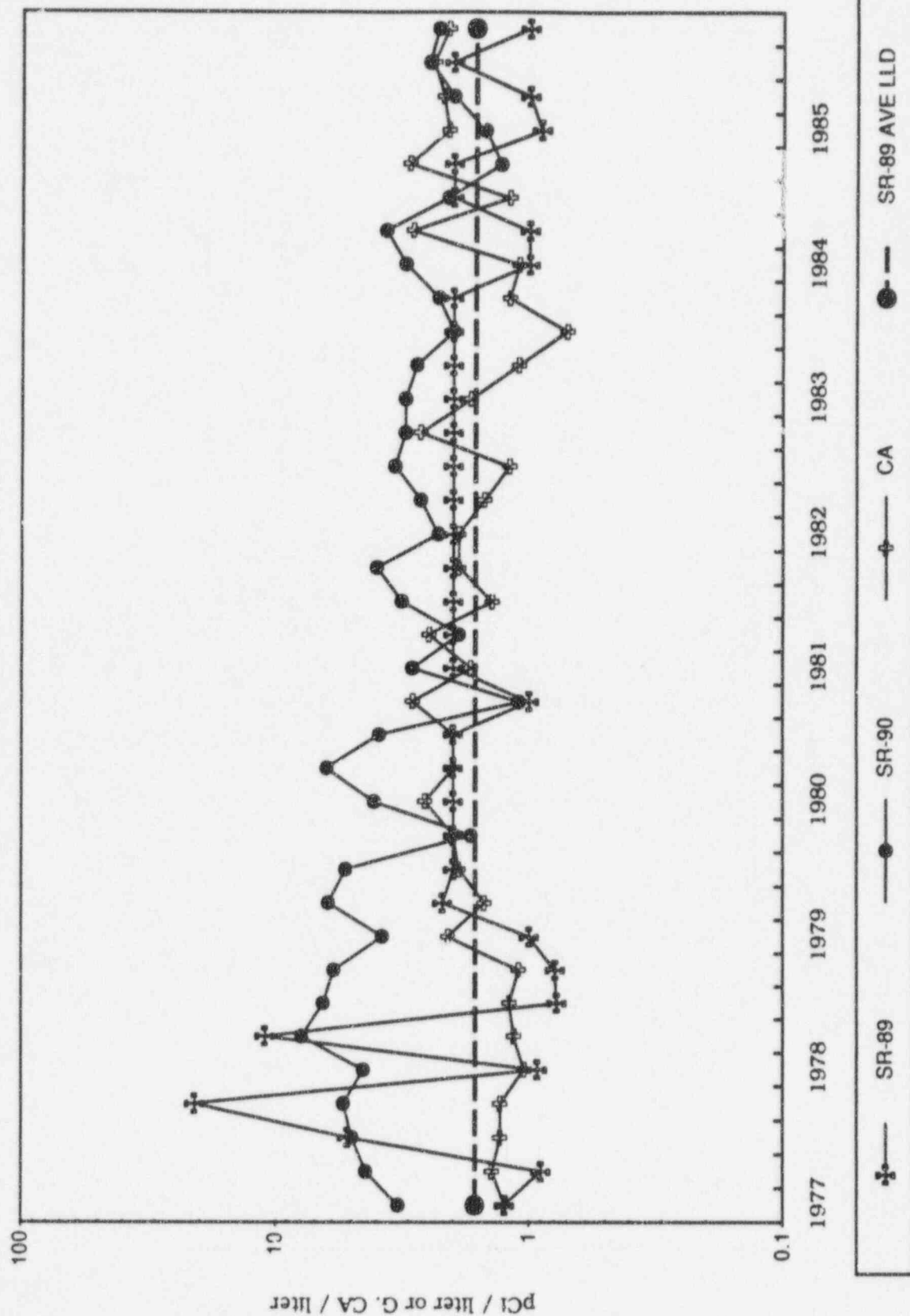


FIGURE G-2
MILK- COMMERCIAL PRODUCERS
QUARTERLY AVERAGE - ALL LOCATIONS
SR-89 SR-90 ELEM. CA.

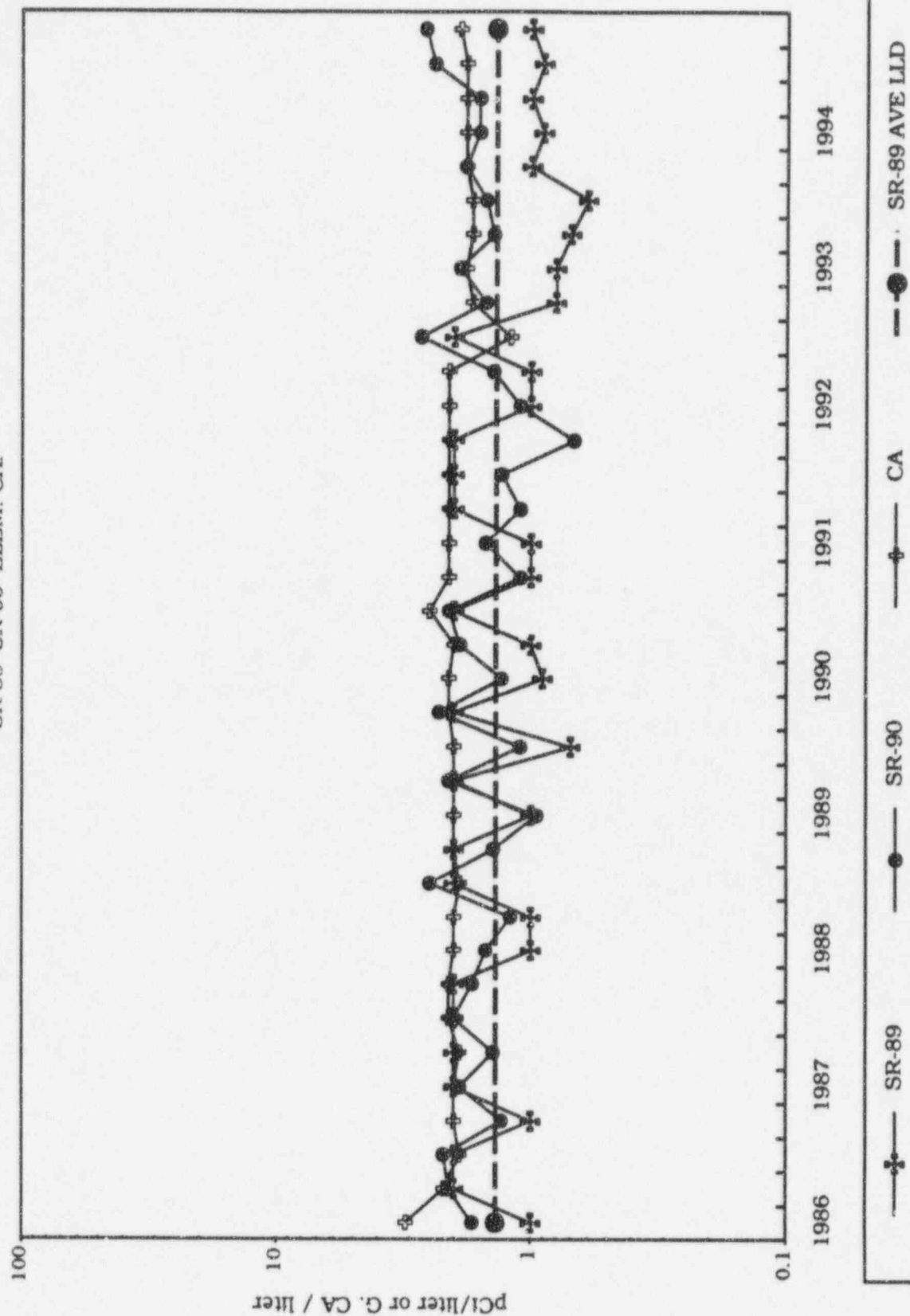


FIGURE G-2
MILK- COMMERCIAL PRODUCERS
QUARTERLY AVERAGE - ALL LOCATIONS
SR-89 SR-90 ELEM. CA.

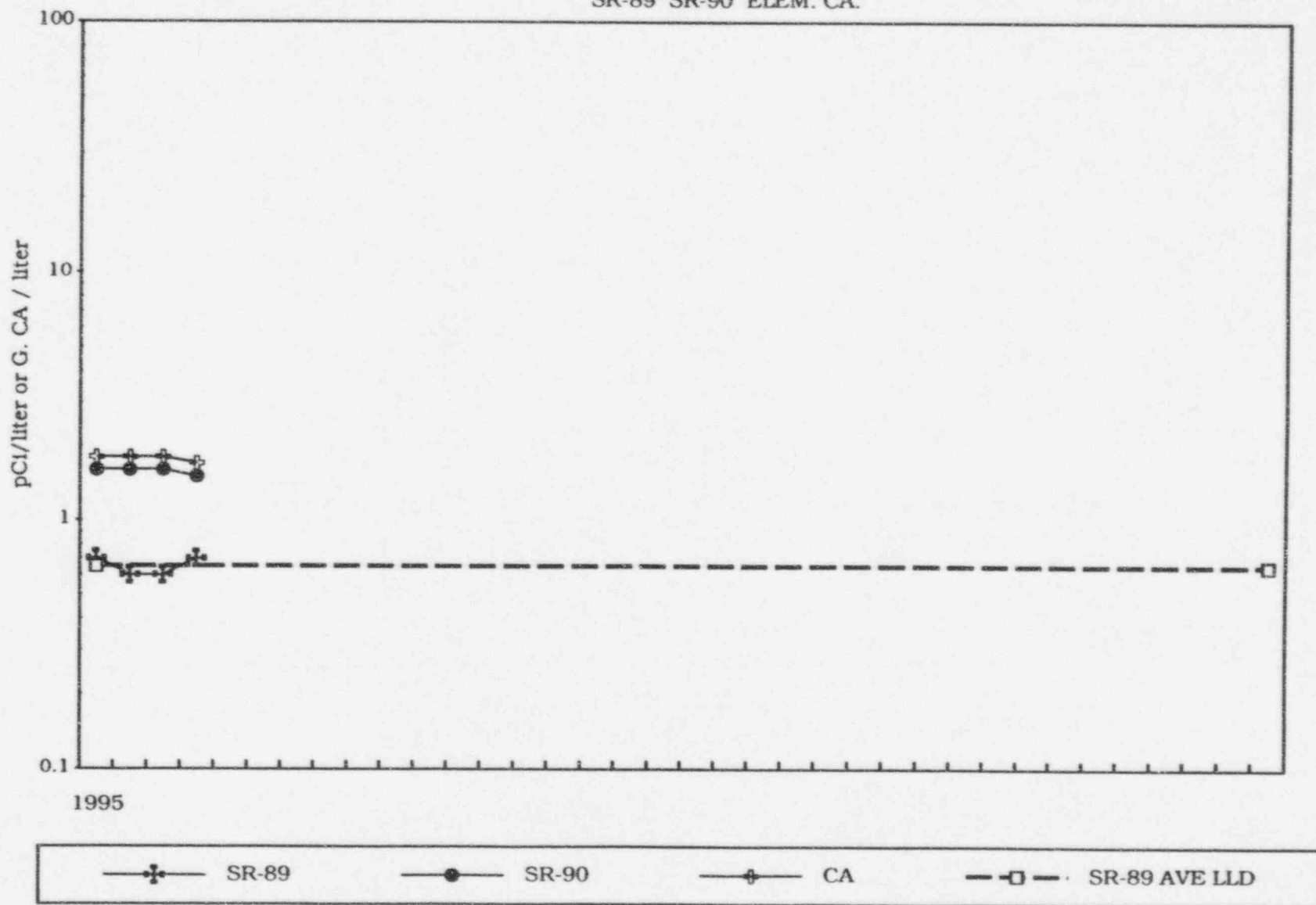


TABLE G-1

1995 QUARTERLY REPORT

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - INGESTION

MILK - OTHER PRODUCERS - PCI/LITER

SAMPLE NUCLIDE	STATION NUMBER		FIRST QUARTER 01/17	SECOND QUARTER 04/18	THIRD QUARTER 07/11-07/12	FOURTH QUARTER 10/24
SR-89	42, 100	Meanistd.dev. det./total range	L.T. 7. E-01 0/2 --	L.T. 6. E-01 0/2 --	L.T. 6. E-01 0/2 --	L.T. 7. E-01 0/2 --
SR-90	42, 100	Meanistd.dev. det./total range	1.6 ± 0.1 E 00 2/2 (1.5-1.6)E 00	1.6 ± 0.1 E 00 2/2 (1.5-1.7)E 00	1.6 ± 0.1 E 00 2/2 (1.5-1.6)E 00	1.5 ± 0.1 E 00 2/2 (1.4-1.5)E 00
I-131 (by chemical separation)	42, 100	Meanistd.dev. det./total range	L.T. 2. E-01 0/2 --	L.T. 2. E-01 0/2 --	L.T. 2. E-01 0/2 --	L.T. 2. E-01 0/2 --
Ca gm/liter	42, 100	Meanistd.dev. det./total range	1.8 ± 0.1 E 00 2/2 (1.7-1.9) E 00	1.8 ± 0.2 E 00 2/2 (1.8-1.8)E 00	1.8 ± 0.2 E 00 2/2 (1.8-1.8)E 00	1.7 ± 0.2 E 00 2/2 (1.7-1.7)E 00
K-40	42, 100	Meanistd.dev. det./total range	1.33 ± 0.1E 03 2/2 (1.24-1.41)E 03	1.38 ± 0.02E 03 2/2 (1.36-1.39)E 03	1.34 ± 0.02E 03 2/2 (1.32-1.35)E 03	1.42 ± 0.14E 03 2/2 (1.42-1.42)E 03
I-131 (by gamma spectroscopy)	42, 100	Meanistd.dev. det./total range	L.T. 5. E 00 0/2 --	L.T. 4. E 00 0/2 --	L.T. 8. E 00 0/2 --	L.T. 5. E 00 0/2 --
Cs-137	42, 100	Meanistd.dev. det./total range	L.T. 5. E 00 0/2 --	L.T. 5. E 00 0/2 --	L.T. 4. E 00 0/2 --	L.T. 4. E 00 0/2 --

TABLE G-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK - OTHER PRODUCERS - PCI/LITER

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/17	SECOND QUARTER 04/18	THIRD QUARTER 07/11-07/12	FOURTH QUARTER 10/24
BE-7	42, 100	L.T. 3. E 01 (0/2)	L.T. 3. E 01 (0/2)	L.T. 3. E 01 (0/2)	L.T. 3. E 01 (0/2)
K-40	42, 100	1.33 ± 0.1E 03 (2/2)	1.38±0.02E 03(2/2)	1.34±0.02E 03(2/2)	1.42±0.14E 03(2/2)
Mn-54	42, 100	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Co-58	42, 100	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Fe-59	42, 100	L.T. 1. E 01 (0/2)	L.T. 8. E 00 (0/2)	L.T. 8. E 00 (0/2)	L.T. 8. E 00 (0/2)
Co-60	42, 100	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Zn-65	42, 100	L.T. 1. E 01 (0/2)	L.T. 8. E 00 (0/2)	L.T. 8. E 00 (0/2)	L.T. 8. E 00 (0/2)
Zr-95	42, 100	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Ru-103	42, 100	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Ru-106	42, 100	L.T. 4. E 01 (0/2)	L.T. 3. E 01 (0/2)	L.T. 3. E 01 (0/2)	L.T. 4. E 01 (0/2)
I-131	42, 100	L.T. 5. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 8. E 00 (0/2)	L.T. 5. E 00 (0/2)
Cs-134	42, 100	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Cs-137	42, 100	L.T. 5. E 00 (0/2)	L.T. 5. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Ba-140	42, 100	L.T. 5. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 6. E 00 (0/2)	L.T. 4. E 00 (0/2)
Ce-141	42, 100	L.T. 9. E 00 (0/2)	L.T. 6. E 00 (0/2)	L.T. 6. E 00 (0/2)	L.T. 5. E 00 (0/2)
Ce-144	42, 100	L.T. 4. E 01 (0/2)	L.T. 2. E 01 (0/2)	L.T. 2. E 01 (0/2)	L.T. 2. E 01 (0/2)
Ra-226	42, 100	L.T. 1. E 02 (0/2)	L.T. 7. E 01 (0/2)	L.T. 7. E 01 (0/2)	L.T. 7. E 01 (0/2)
Th-228	42, 100	L.T. 9. E 00 (0/2)	L.T. 6. E 00 (0/2)	L.T. 7. E 00 (0/2)	L.T. 7. E 00 (0/2)

H. GROUNDWATER (See Tables H-1 and H-2)

STATIONS 11, 47

Groundwater was collected from two stations quarterly and analyzed for gross beta and gross alpha activity, for tritium and for gamma emitting radionuclides. Station 11 is 0.15 miles from the plant and station 47 is 25.75 miles from the plant.

The gross beta activity averaged 8.4 pCi/liter which is statistically similar to past years. There was one detection of gross alpha at Station 47 (7.9 pCi/l). There were no detections of gamma emitters above the normal level of detection. The tritium level averaged 100 pCi/liter for the year which is the normal environmental level.

There was no difference in levels of beta activity or tritium for the station close to the plant as compared with the more distant station. It may be concluded that there was no impact from the operations of CNS on the environment as shown by measurements of radionuclides in groundwater.

Shown in Figure H-1 are the gross alpha, gross beta and tritium levels in groundwater. The levels of these activities have remained essentially unchanged.

FIGURE H-1
GROUNDWATER
QUARTERLY AVERAGE - ALL LOCATIONS
GROSS ALPHA GROSS BETA H-3

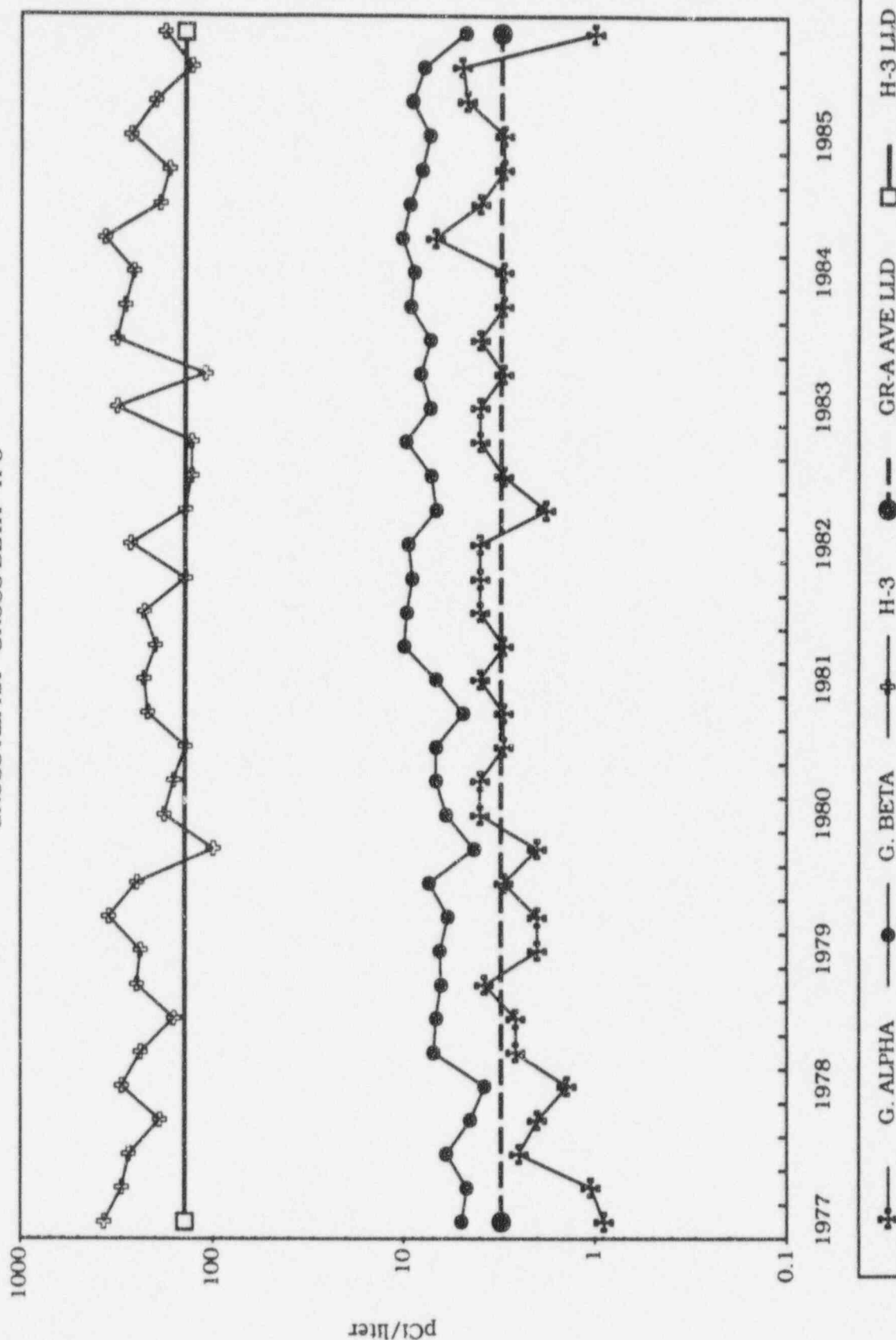


FIGURE H-1
GROUNDWATER
QUARTERLY AVERAGE - ALL LOCATIONS
GROSS ALPHA GROSS BETA H-3

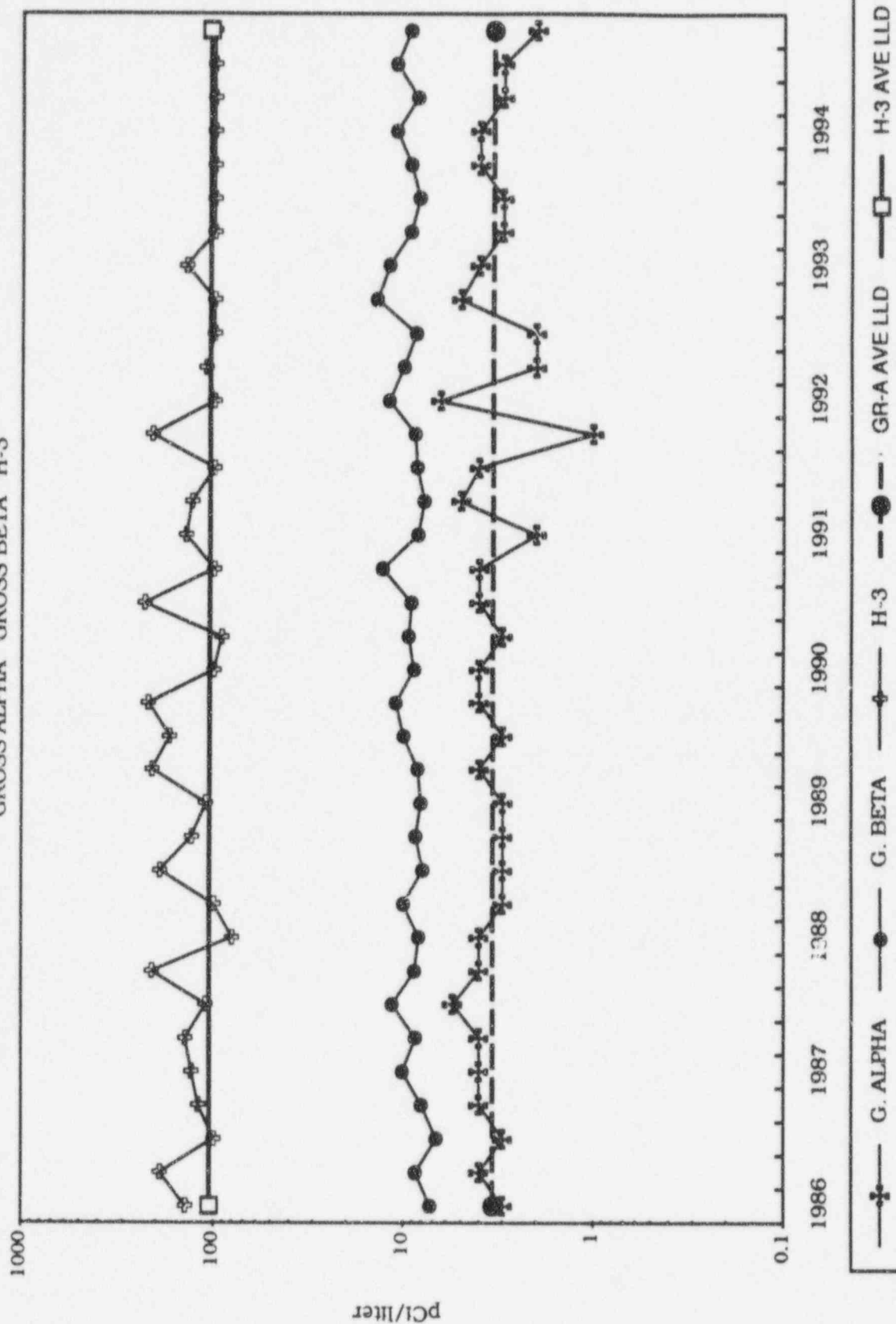


FIGURE H-1
GROUNDWATER
QUARTERLY AVERAGE - ALL LOCATIONS
GROSS ALPHA GROSS BETA H-3

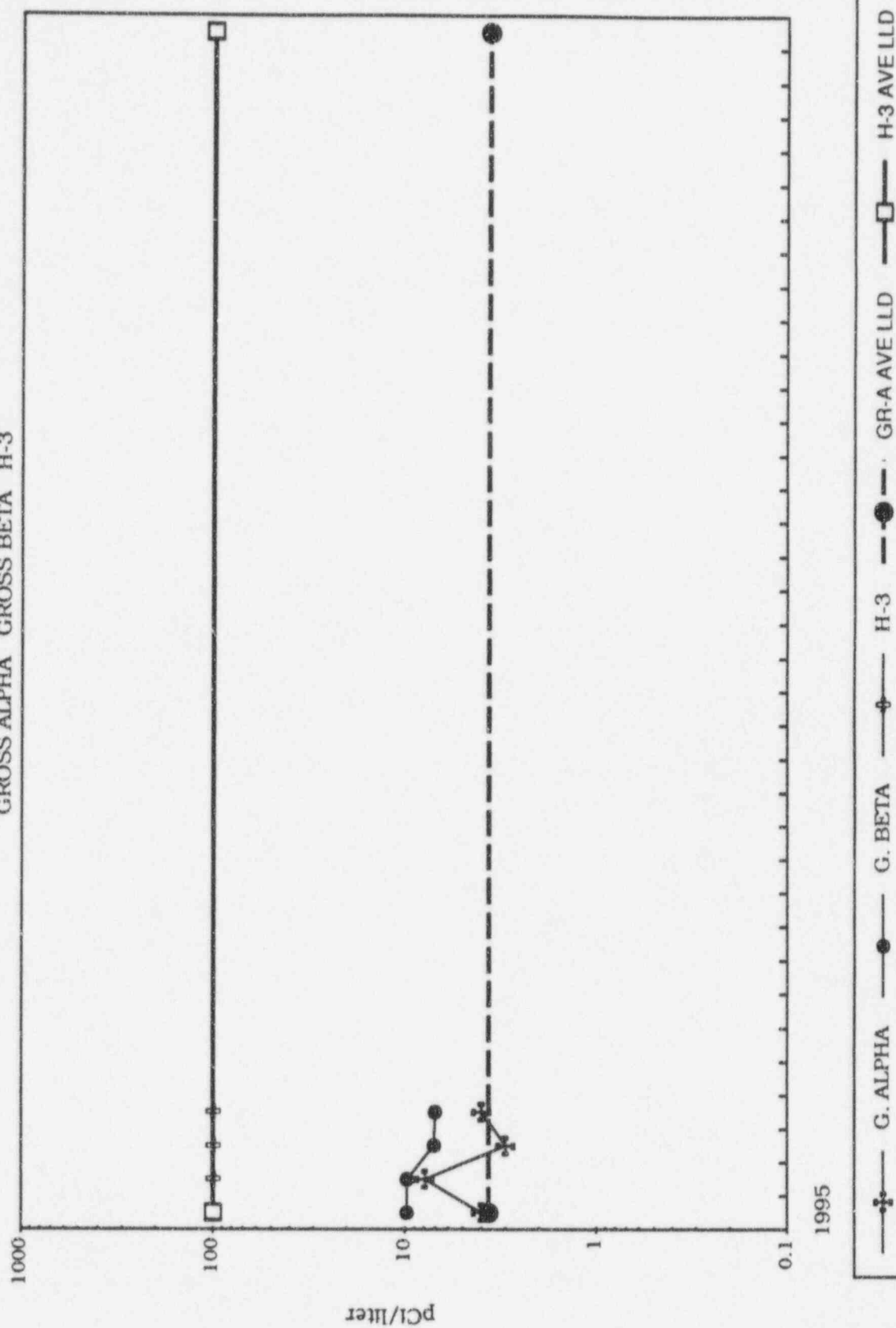


TABLE H-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
GROUNDWATER - PCI/LITER

SAMPLE NUCLIDE	STATION NUMBER		FIRST QUARTER 01/23, 01/24	SECOND QUARTER 04/25	THIRD QUARTER 07/18	FOURTH QUARTER 10/25
GROSS ALPHA	11, 47	Meanistd.dev. det./total range	L.T. 4. E 00 0/2 --	7.9 ± 3.6 E 00 1/2 --	L.T. 3. E 00 0/2 --	L.T. 4. E 00 0/2 --
GROSS BETA	11, 47	Meanistd.dev. det./total range	9.8 ± 0.4 E 00 2/2 (9.5-10) E 00	9.8 ± 1.7 E 00 2/2 (8.6-11) E 00	7.1 ± 0.9 E 00 2/2 (6.4-7.7) E 00	7.0 ± 0.9 E 00 2/2 (6.3-7.6) E 00
K-40	11, 47	Meanistd.dev. det./total range	L.T. 6. E 01 0/2 --	L.T. 9. E 01 0/2 --	L.T. 1. E 02 0/2 --	L.T. 8. E 01 0/2 --
I-131 (by gamma spectroscopy)	11, 47	Meanistd.dev. det./total range	L.T. 6. E 00 0/2 --	L.T. 4. E 00 0/2 --	L.T. 7. E 00 0/2 --	L.T. 4. E 00 0/2 --
Cs-137	11, 47	Meanistd.dev. det./total range	L.T. 5. E 00 0/2 --	L.T. 4. E 00 0/2 --	L.T. 4. E 00 0/2 --	L.T. 4. E 00 0/2 --
H-3	11, 47	Meanistd.dev. det./total range	L.T. 1. E 02 0/2 --	L.T. 1. E 02 0/2 --	L.T. 1. E 02 0/2 --	L.T. 1. E 02 0/2 --

TABLE E-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
GROUNDWATER - PCI/LITER

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/23, 01/24	SECOND QUARTER 04/25	THIRD QUARTER 07/18	FOURTH QUARTER 10/25
BE-7	11, 47	L.T. 4. E 01 (0/2)	L.T. 3. E 01 (0/2)	L.T. 4. E 01 (0/2)	L.T. 3. E 01 (0/2)
K-40	11, 47	L.T. 6. E 01 (0/2)	L.T. 9. E 01 (0/2)	L.T. 1. E 02 (0/2)	L.T. 8. E 01 (0/2)
Mn-54	11, 47	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)
Co-58	11, 47	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)
Fe-59	11, 47	L.T. 8. E 00 (0/2)	L.T. 6. E 00 (0/2)	L.T. 9. E 00 (0/2)	L.T. 7. E 00 (0/2)
Co-60	11, 47	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)
Zn-65	11, 47	L.T. 8. E 00 (0/2)	L.T. 7. E 00 (0/2)	L.T. 8. E 00 (0/2)	L.T. 7. E 00 (0/2)
Zr-95	11, 47	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)
Ru-103	11, 47	L.T. 5. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 3. E 00 (0/2)
Ru-106	11, 47	L.T. 4. E 01 (0/2)	L.T. 3. E 01 (0/2)	L.T. 4. E 01 (0/2)	L.T. 3. E 01 (0/2)
I-131	11, 47	L.T. 6. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 7. E 00 (0/2)	L.T. 4. E 00 (0/2)
Cs-134	11, 47	L.T. 5. E 00 (0/2)	L.T. 3. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Cs-137	11, 47	L.T. 5. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 4. E 00 (0/2)
Ba-140	11, 47	L.T. 6. E 00 (0/2)	L.T. 4. E 00 (0/2)	L.T. 6. E 00 (0/2)	L.T. 4. E 00 (0/2)
Ce-141	11, 47	L.T. 9. E 00 (0/2)	L.T. 5. E 00 (0/2)	L.T. 6. E 00 (0/2)	L.T. 4. E 00 (0/2)
Ce-144	11, 47	L.T. 4. E 01 (0/2)	L.T. 2. E 01 (0/2)	L.T. 2. E 01 (0/2)	L.T. 2. E 01 (0/2)
Ra-226	11, 47	L.T. 1. E 02 (0/2)	L.T. 7. E 01 (0/2)	L.T. 7. E 01 (0/2)	L.T. 7. E 01 (0/2)
Th-228	11, 47	L.T. 1. E 01 (0/2)	L.T. 6. E 00 (0/2)	L.T. 7. E 00 (0/2)	L.T. 6. E 00 (0/2)

I. RIVER WATER (See Table I-1 and I-2)

STATIONS 12, 28

River water was collected monthly and monitored for gross beta and gross alpha, suspended and dissolved, Sr-89 and Sr-90 plus gamma emitting isotopes. A quarterly composite was measured for tritium.

There were no detections of potassium-40 above the normal level of detection and no detections of Sr-89 and Sr-90.

The average gross alpha and gross beta readings were similar to previous years as indicated in the summary of 1994 and 1995 averages below:

	1994 Average pCi/liter	1995 Average pCi/liter
Gross Alpha (dissolved)	3.8	4.0
Gross Alpha (suspended)	3.0	2.2
Gross Beta (dissolved)	11.0	11.0
Gross Beta (suspended)	7.7	5.9

Figure I-1, which follows, is a plot of the gross alpha and gross beta of suspended and dissolved particles. The levels of activity continued to rise and fall within statistical limits depending on water levels and turbulence and were probably due to naturally occurring isotopes. No fission or reactor activation products were detected. Figure I-2 illustrates the level of activity for tritium, Sr-89 and Sr-90.

FIGURE I-1
 RIVER WATER
 QUARTERLY AVERAGE - ALL LOCATIONS
 GROSS ALPHA AND GROSS BETA (SUSPENDED AND DISSOLVED SOLIDS)

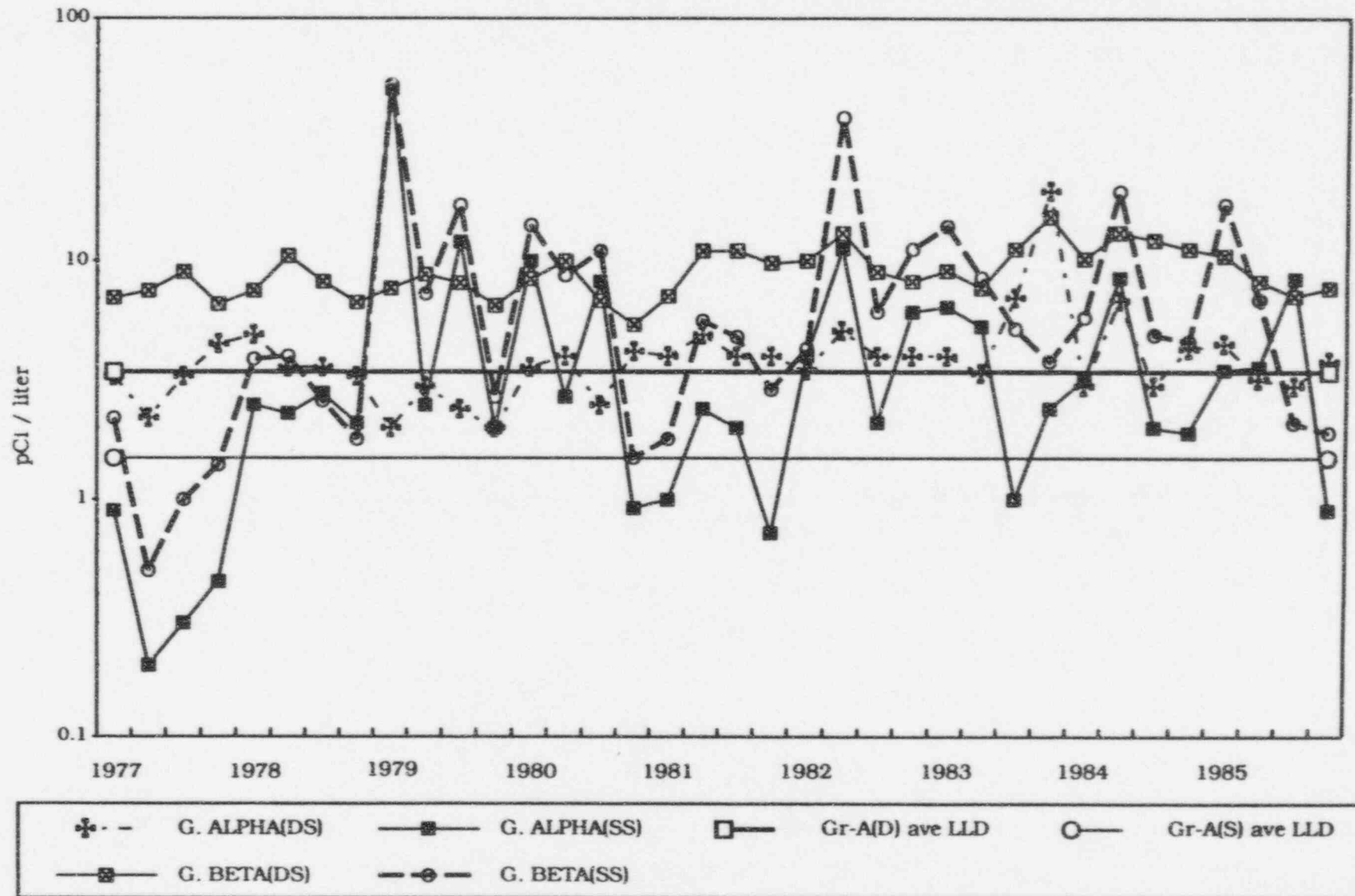


FIGURE I-1
 RIVER WATER
 QUARTERLY AVERAGE - ALL LOCATIONS
 GROSS ALPHA AND GROSS BETA (SUSPENDED AND DISSOLVED SOLIDS)

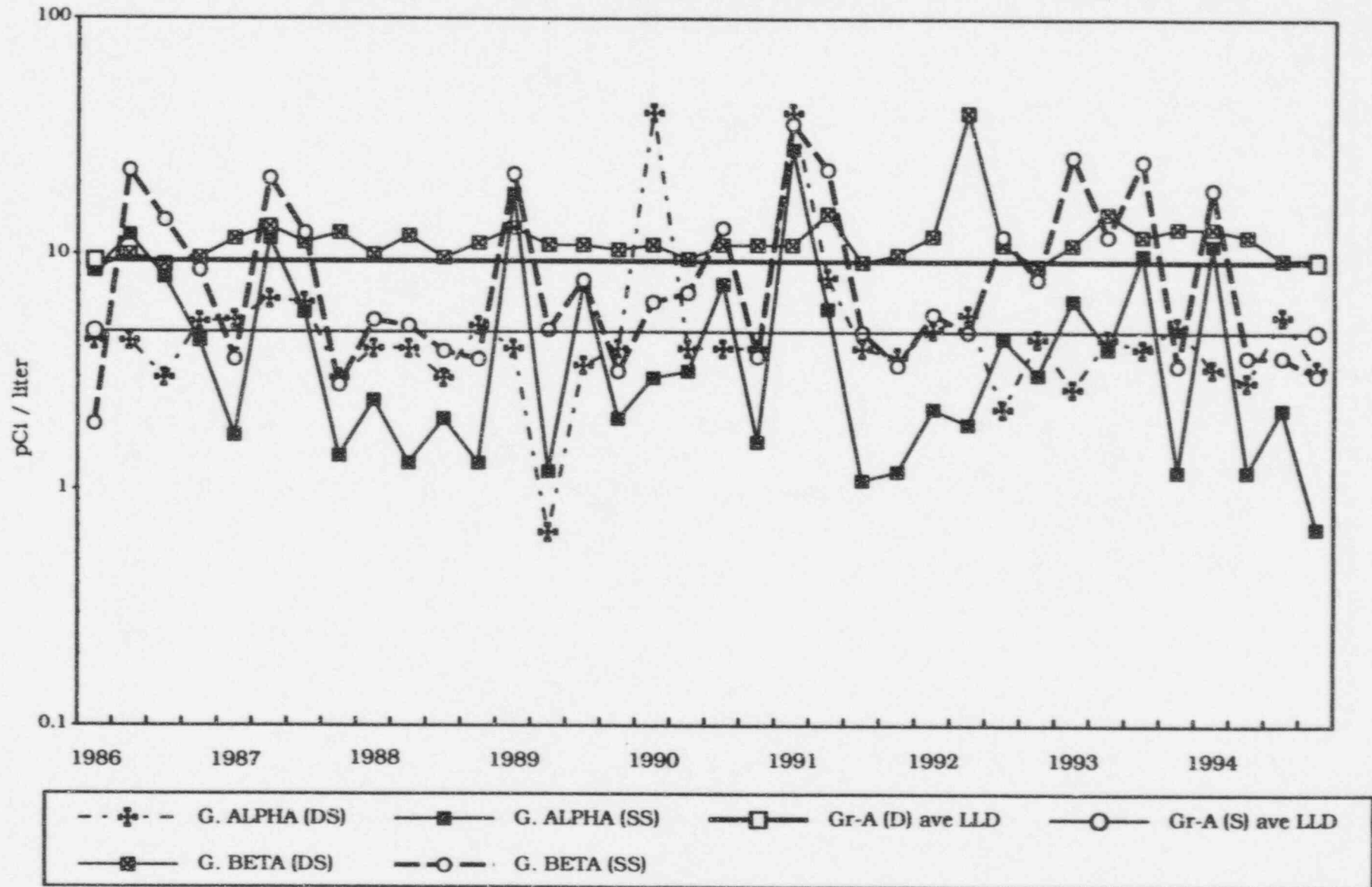


FIGURE I-1
 RIVER WATER
 QUARTERLY AVERAGE - ALL LOCATIONS
 GROSS ALPHA AND GROSS BETA (SUSPENDED AND DISSOLVED SOLIDS)

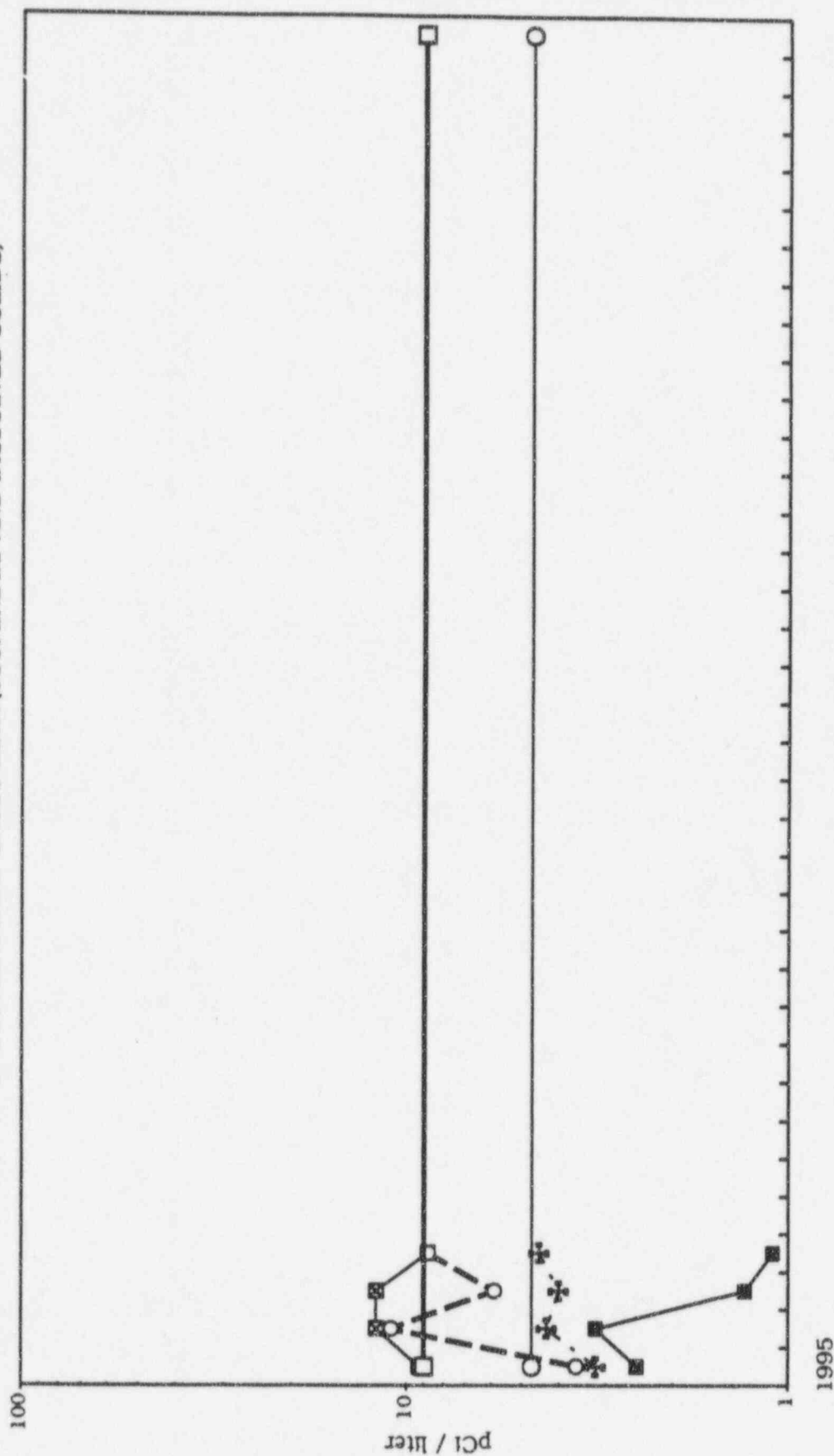


FIGURE I-2
RIVER WATER
QUARTERLY AVERAGE - ALL LOCATIONS
SR-89 SR-90 H-3

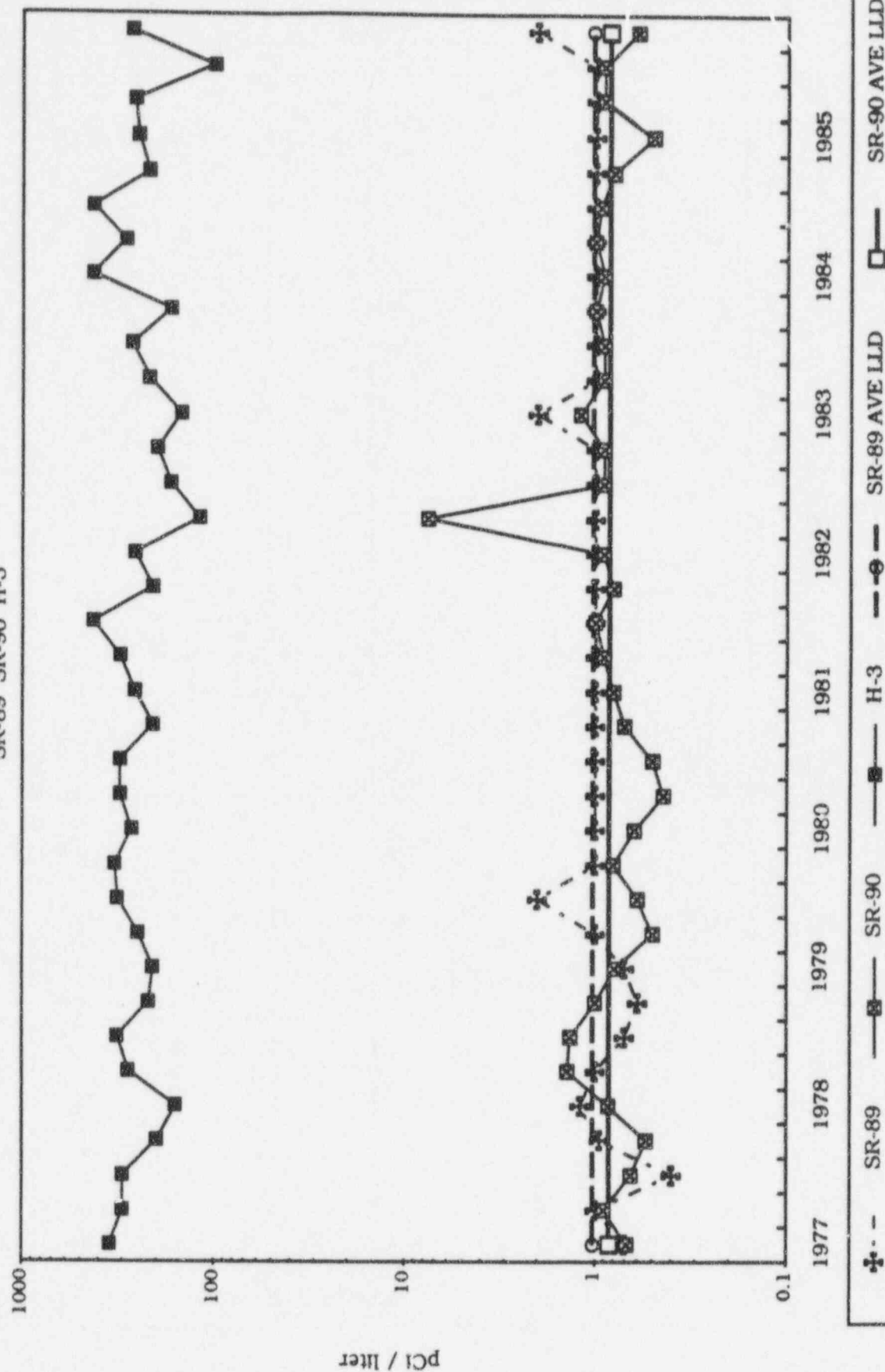


FIGURE I-2
RIVER WATER
QUARTERLY AVERAGE - ALL LOCATIONS
SR-89 SR-90 H-3

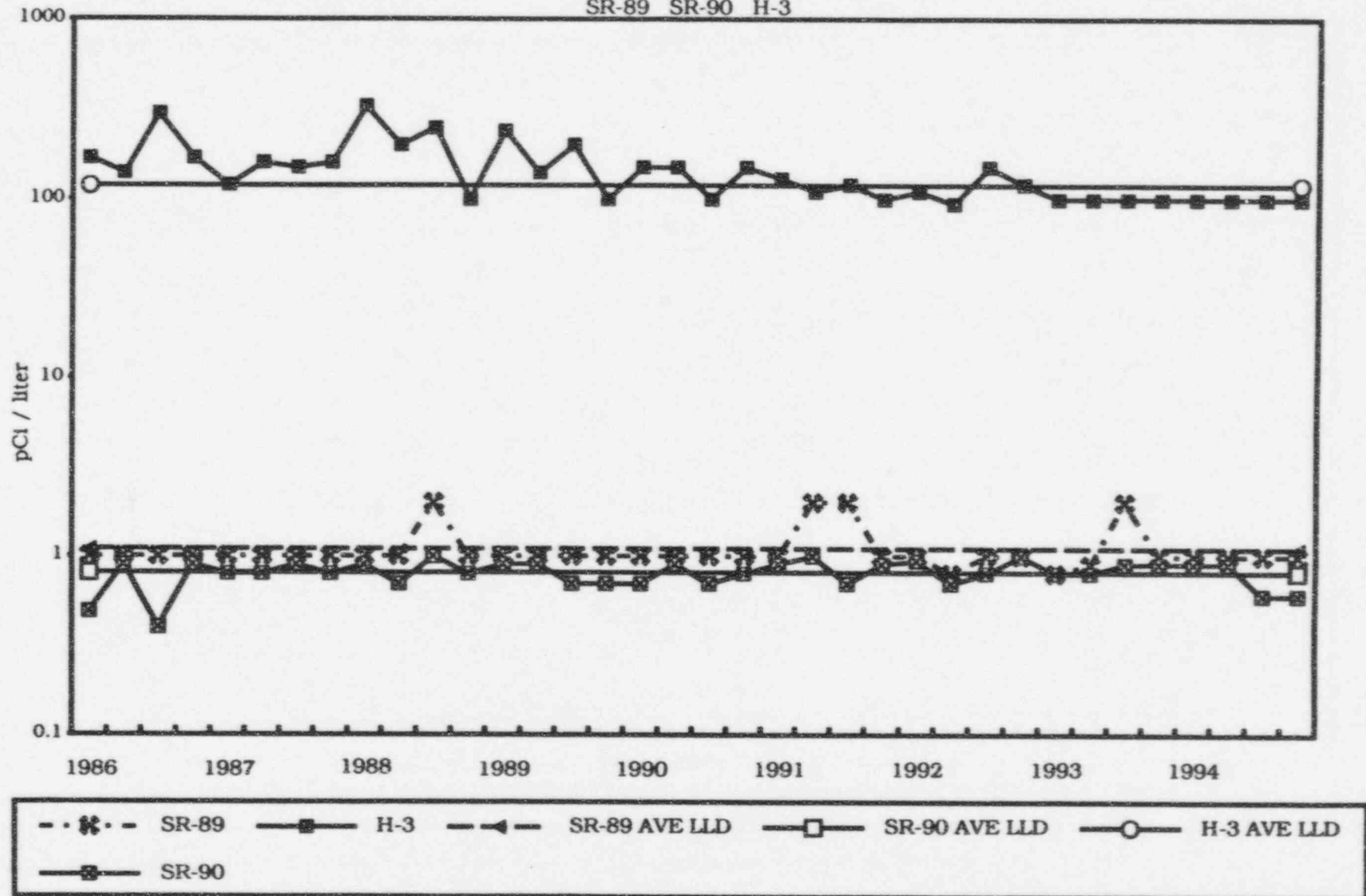


FIGURE I-2
RIVER WATER
QUARTERLY AVERAGE - ALL LOCATIONS
SR-89 SR-90 H-3

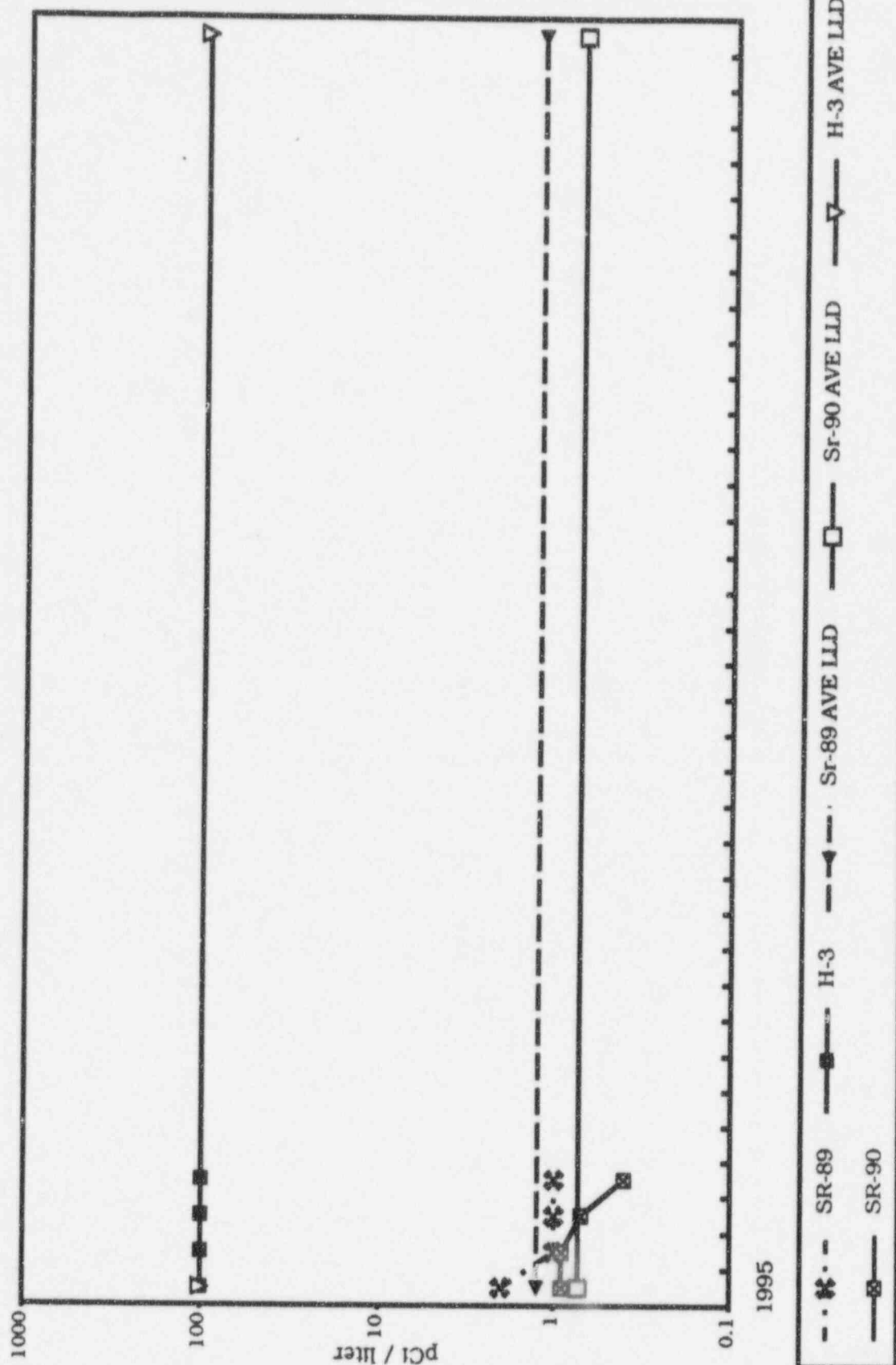


TABLE I-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - RIVER
PCI/LITEF

SAMPLE NUCLIDE	STATION NUMBER		FIRST QUARTER 01/03-03/07	SECOND QUARTER 04/04-06/13	THIRD QUARTER 07/05-09/06	FOURTH QUARTER 10/03-12/05
GROSS ALPHA (dissolved)	12, 28	Meanistd.dev. det./total range	3.2 ± 1.0 E 00 3/6 --	4.3 ± 1.2 E 00 3/6 (3.1-5.4)E 00	L.T. 4. E 00 0/6 --	4.5 ± 2.3 E 00 2/6 (2.9-6.1)E 00
GROSS ALPHA (suspended)	12, 28	Meanistd.dev. det./total range	2.5 ± 2.4 E 00 5/6 (0.65-6.5) E 00	3.2 ± 0.6 E 00 6/6 (2.3-3.8)E 00	1.3 ± 0.7 E 00 2/6 0.76-1.8)E 00	1.1 ± 0.2 E 00 5/6 (0.74-1.3)E 00
GROSS BETA (dissolved)	12, 28	Meanistd.dev. det./total range	9.3 ± 0.2 E 00 6/6 (9.1-9.7)E 00	1.2 ± 0.2 E 01 6/6 (1.0-1.4)E 01	1.2 ± 0.09E 01 6/6 (1.1-1.4)E 01	8.8 ± 1.0 E 00 6/6 (7.6-10)E 00
GROSS BETA (suspended)	12, 28	Meanistd.dev. det./total range	3.6 ± 2.0 E 00 6/6 (1.6-6.3)E 00	1.1 ± 0.2 E 01 6/6 (8.9-15)E 00	5.9 ± 3.5 E 00 4/6 (3.4-11)E 00	2.7 ± 0.4 E 00 6/6 (2.1-3.2)E 00
Sr-89	12, 28	Meanistd.dev. det./total range	L.T. 2. E 00 0/6 --	L.T. 1. E 00 0/6 --	L.T. 1. E 00 0/6 --	L.T. 1. E 00 0/6 --
Sr-90	12, 28	Meanistd.dev. det./total range	L.T. 9 E-01 0/6 --	L.T. 9 E-01 0/6 --	L.T. 7. E-01 0/6 --	L.T. 4. E-01 0/6 --
H-3 (a)	12, 28	Meanistd.dev. det./total range	L.T. 1. E 02 0/2 --	L.T. 1. E 02 0/2 --	L.T. 1. E 02 0/2 --	L.T. 1. E 02 0/2 --
I-131 (by gamma spectroscopy)	12, 28	Meanistd.dev. det./total range	L.T. 6. E 00 0/6 --	L.T. 9. E 00 0/6 --	L.T. 8. E 00 0/6 --	L.T. 5. E 00 0/6 --
Cs-137	12, 28	Meanistd.dev. det./total range	L.T. 5. E 00 0/6 --	L.T. 5. E 00 0/6 --	L.T. 4. E 00 0/6 --	L.T. 4. E 00 0/6 --

(a) Tritium analysis is performed on the quarterly composite of each station only.

TABLE I-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - RIVER
PCI/LITER

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/03-03/07	SECOND QUARTER 04/04-06/13	THIRD QUARTER 07/05-09/06	FOURTH QUARTER 10/03-12/05
BE-7	12, 28	L.T. 4. E 01 (0/6)	L.T. 4. E 01 (0/6)	L.T. 3. E 01 (0/6)	L.T. 3. E 01 (0/6)
K-40	12, 28	6.67±2.58 E 01 (6/6)	6.83±1.17 E 01 (6/6)	L.T. 1. E 02 (0/6)	L.T. 1. E 02 (0/6)
Mn-54	12, 28	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)
Co-58	12, 28	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)
Fe-59	12, 28	L.T. 8. E 00 (0/6)	L.T. 8. E 00 (0/6)	L.T. 8. E 00 (0/6)	L.T. 8. E 00 (0/6)
Co-60	12, 28	L.T. 4. E 00 (0/6)	L.T. 5. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)
Zn-65	12, 28	L.T. 9. E 00 (0/6)	L.T. 8. E 00 (0/6)	L.T. 9. E 00 (0/6)	L.T. 8. E 00 (0/6)
Zr-95	12, 28	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)
Ru-103	12, 28	L.T. 5. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)
Ru-106	12, 28	L.T. 4. E 01 (0/6)	L.T. 4. E 01 (0/6)	L.T. 4. E 01 (0/6)	L.T. 3. E 01 (0/6)
I-131	12, 28	L.T. 6. E 00 (0/6)	L.T. 9. E 00 (0/6)	L.T. 8. E 00 (0/6)	L.T. 5. E 00 (0/6)
Cs-134	12, 28	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)
Cs-137	12, 28	L.T. 5. E 00 (0/6)	L.T. 5. E 00 (0/6)	L.T. 4. E 00 (0/6)	L.T. 4. E 00 (0/6)
Ba-140	12, 28	L.T. 5. E 00 (0/6)	L.T. 6. E 00 (0/6)	L.T. 6. E 00 (0/6)	L.T. 5. E 00 (0/6)
Ce-141	12, 28	L.T. 7. E 00 (0/6)	L.T. 9. E 00 (0/6)	L.T. 8. E 00 (0/6)	L.T. 8. E 00 (0/6)
Ce-144	12, 28	L.T. 3. E 01 (0/6)	L.T. 4. E 01 (0/6)	L.T. 3. E 01 (0/6)	L.T. 3. E 01 (0/6)
Ra-226	12, 28	L.T. 9. E 01 (0/6)	L.T. 1. E 02 (0/6)	L.T. 1. E 02 (0/6)	L.T. 1. E 02 (0/6)
Th-228	12, 28	L.T. 8. E 00 (0/6)	L.T. 1. E 01 (0/6)	L.T. 8. E 00 (0/6)	L.T. 9. E 00 (0/6)

J. AMBIENT RADIATION - THERMOLUMINESCENT DOSIMETERS

(TLDs - See Tables J-1 AND J-2)

STATIONS 01-10, 20, 44, 56, 58, 59, 66, 67, 71, 79-91, 94

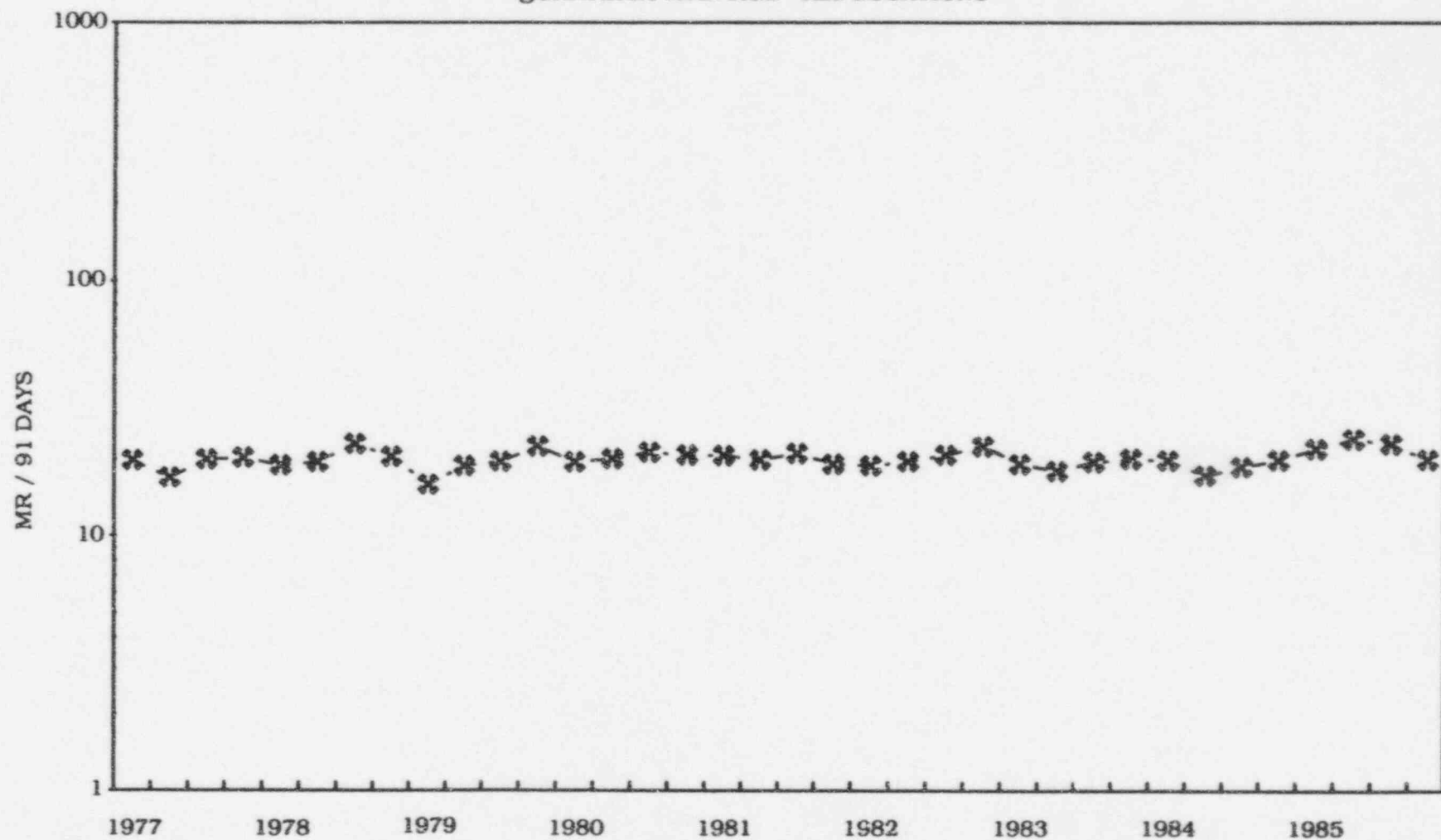
Ambient radiation was monitored at 32 locations within a 10 mile radius of CNS and collected quarterly. The quarterly averages for all stations of ambient net gamma radiation ranged from 14.0 milliRoentgen/quarter to 19.0 milliRoentgen/quarter. The highest exposure during each of the four quarters was at Station 66 (4.5 miles, 200 degrees) and averaged 18.9 mR/quarter. The lowest exposure was at Station 03 (2.5 miles, 338 degrees) averaging 13.9 milliRoentgen/quarter.

The radiation at station 44, (10.5 miles, 270 degrees) which is the control station, was an average of 18.0 mR/quarter. This was similar to other stations and to the average of all stations which was 16.6 mR/quarter.

The average total exposure for the year was 65.7 mR which is considerably below the 125 millirems per quarter specified in 10 CFR 20.105 for an unrestricted area. The relationship between milliRoentgen (mR) and millirems (mr) is approximately one for the exposure conditions encountered. No plant effect from CNS was indicated.

The gamma exposures monitored by thermoluminescent dosimeters from 1977 through 1995 are plotted on Figure J-1. The data from year to year is in good agreement and indicates no adverse changes in radiation exposure to the population near CNS.

FIGURE J-1
AMBIENT RADIATION
THERMOLUMINESCENT DOSIMETRY
QUARTERLY AVERAGE - ALL LOCATIONS



- * - EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD

FIGURE J-1
AMBIENT RADIATION
THERMOLUMINESCENT DOSIMETRY
QUARTERLY AVERAGE - ALL LOCATIONS

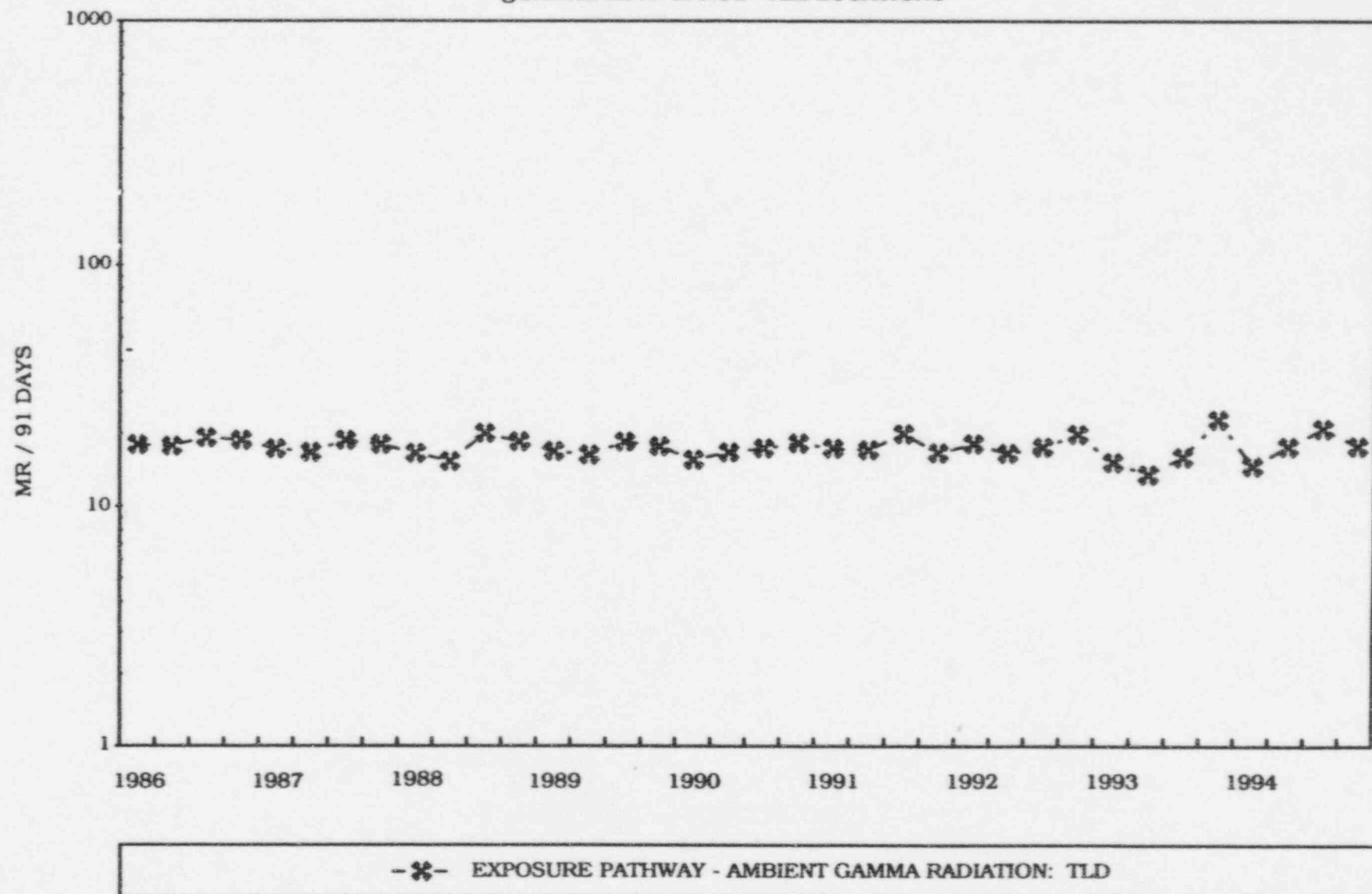
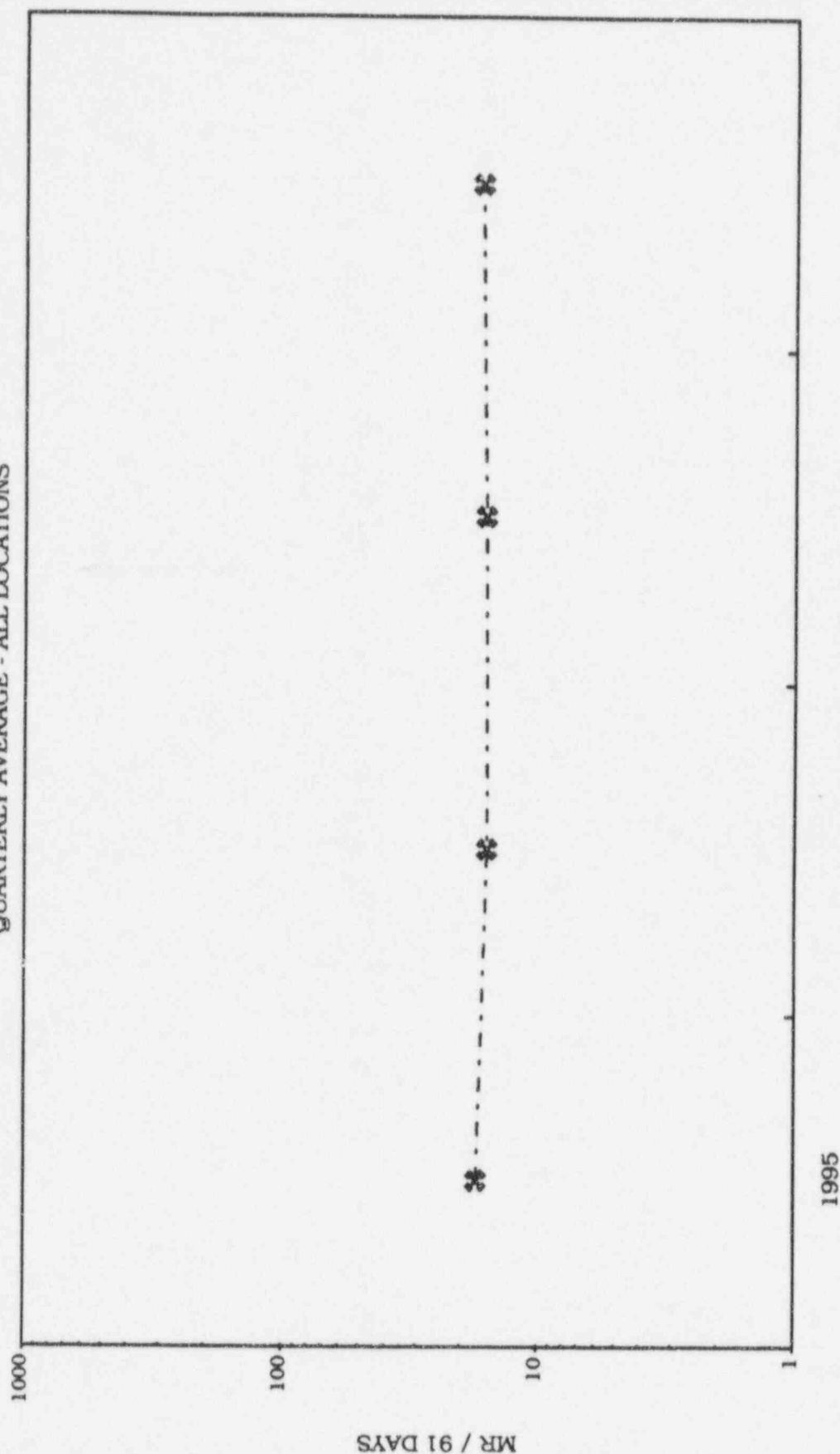


FIGURE J-1
 AMBIENT RADIATION
 THERMOLUMINESCENT DOSIMETRY
 QUARTERLY AVERAGE - ALL LOCATIONS



--*-- EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD

TABLE J-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD
milliRoentgen/Quarter

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/05-04/12	SECOND QUARTER 04/12-07/11	THIRD QUARTER 07/11-10/06	FOURTH QUARTER 10/06-12/26
TLD (Gamma)	01	16.3 ± 1.1	15.5 ± 0.6	14.7 ± 1.0	16.8 ± 1.3
	02	16.4 ± 0.6	17.9 ± 0.9	14.3 ± 0.8	15.3 ± 1.0
	03	15.5 ± 0.5	12.2 ± 0.5	13.0 ± 0.6	14.7 ± 0.6
	04	15.9 ± 0.6	14.6 ± 0.8	13.7 ± 0.9	15.3 ± 1.1
	05	17.9 ± 1.3	17.7 ± 0.4	13.7 ± 0.6	15.2 ± 0.7
	06	16.7 ± 0.4	15.5 ± 0.6	14.0 ± 0.5	16.0 ± 0.9
	07	16.3 ± 1.4	14.2 ± 0.5	13.9 ± 0.8	15.8 ± 1.0
	08	16.4 ± 1.1	15.7 ± 0.9	15.0 ± 1.1	16.2 ± 1.4
	09	16.1 ± 0.8	14.0 ± 0.7	13.8 ± 0.6	15.0 ± 0.8
	10	16.3 ± 0.8	14.7 ± 0.8	14.3 ± 1.0	15.9 ± 0.6
	20	17.5 ± 0.6	15.1 ± 0.4	15.5 ± 0.7	17.0 ± 0.9
	44	19.5 ± 1.0	16.6 ± 0.6	17.8 ± 0.9	18.2 ± 0.5
	56	15.6 ± 0.5	15.1 ± 0.4	15.7 ± 0.9	17.0 ± 1.1
	58	17.2 ± 0.7	15.7 ± 0.7	16.5 ± 1.0	16.8 ± 0.9
	59	17.5 ± 0.5	17.4 ± 0.9	17.4 ± 1.0	16.8 ± 1.5
	66	19.5 ± 0.6	*	18.4 ± 0.8	18.9 ± 1.1
	67	20.9 ± 0.9	17.0 ± 0.6	17.8 ± 0.9	17.4 ± 0.9
	71	17.6 ± 0.8	15.6 ± 0.8	16.9 ± 0.8	17.7 ± 1.1

*TLD missing

TABLE J-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD
milliRoentgen/Quarter

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/05-04/12	SECOND QUARTER 04/12-07/11	THIRD QUARTER 07/11-10/06	FOURTH QUARTER 10/06-12/26
	79	18.9 ± 0.8	15.0 ± 0.7	16.2 ± 0.8	17.7 ± 0.8
	80	17.8 ± 0.3	16.5 ± 0.6	16.6 ± 0.8	17.4 ± 1.2
	81	18.0 ± 0.7	15.6 ± 0.8	17.0 ± 0.8	17.3 ± 1.0
	82	17.1 ± 1.0	15.7 ± 1.0	18.2 ± 0.5	17.5 ± 1.0
	83	17.9 ± 1.0	16.4 ± 1.1	17.7 ± 0.9	17.4 ± 0.5
	84	18.9 ± 1.1	17.2 ± 0.7	18.1 ± 1.2	18.3 ± 0.8
	85	17.0 ± 0.5	16.0 ± 0.5	15.9 ± 0.7	17.4 ± 0.9
	86	17.9 ± 0.6	18.7 ± 0.9	18.3 ± 0.5	17.1 ± 0.8
	87	18.3 ± 0.9	15.3 ± 0.8	17.0 ± 1.2	17.2 ± 1.3
	88	16.6 ± 0.5	15.7 ± 0.5	15.5 ± 0.4	16.1 ± 0.4
	89	18.1 ± 0.5	18.8 ± 0.7	17.2 ± 0.9	18.2 ± 0.9
	90	18.4 ± 0.7	14.7 ± 0.5	18.4 ± 0.5	17.5 ± 1.0
	91	16.7 ± 0.8	14.9 ± 0.7	15.1 ± 0.7	16.3 ± 1.1
	94	18.4 ± 1.0	16.5 ± 0.9	17.1 ± 1.1	17.0 ± 1.1
Average/Quarter		97 days	90.5 days	90.6 days	79.86 days
		17.4±1.2 mR/97 days	15.9±1.4 mR/90.5 days	16.1±1.7 mR/90.6 days	16.8±1.0 mR/79.86 days
Average/Day		0.18±0.01 mR/day	0.18±0.02 mR/day	0.17±0.02	0.21±0.01
Range		(16-21)mR/97 days	(12-19)mR/90.5 days	(13-18)mR/90.6 days	(15-19) mR/79.86 days
Det./Total		32/32	31/31	32/32	(32/32)

TABLE J-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD
m. liRoentgen/Quarter

SAMPLE NUCLIDE	STATION NUMBER	Aver./Quarter	TOTAL mR/year 01/05/95-12/26/95
TLD (Gamma)	01	15.8 ± 0.9	63.3
	02	16.0 ± 1.5	63.9
	03	13.9 ± 1.5	55.4
	04	14.9 ± 1.0	59.5
	05	16.1 ± 2.0	64.5
	06	15.6 ± 1.1	62.2
	07	15.1 ± 1.2	60.2
	08	15.8 ± 0.6	63.3
	09	14.7 ± 1.1	58.9
	10	15.3 ± 1.0	61.2
	20	16.3 ± 1.2	65.1
	44	18.0 ± 1.2	72.1
	56	15.9 ± 0.8	63.4
	58	16.6 ± 0.6	66.2
	59	17.3 ± 0.3	69.1
	66	18.9 ± 0.6	56.8
	67	18.3 ± 1.8	73.1
	71	17.0 ± 1.0	67.8

TABLE J-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD

milliRoentgen/Quarter

SAMPLE NUCLIDE	STATION NUMBER	Aver./Quarter	TOTAL mR/year 01/05/95-12/26/95
TLD (Gamma)	79	17.0 ± 1.7	67.8
	80	17.1 ± 0.6	68.3
	81	17.0 ± 1.0	67.9
	82	17.1 ± 1.1	68.5
	83	17.4 ± 0.7	69.4
	84	18.1 ± 0.7	72.5
	85	16.6 ± 0.7	66.3
	86	18.0 ± 0.7	72.0
	87	17.0 ± 1.2	67.8
	88	16.0 ± 0.5	63.9
	89	18.1 ± 0.7	72.3
	90	17.3 ± 1.8	69.0
	91	15.8 ± 0.9	63.0
	94	17.3 ± 0.8	69.0
		16.6 ± 0.4 Average mR/Quarter	65.7 ± 4.7
		Range(14-19)	Aver. total mR year. All stations Range (55.4-73.1)

K. VEGETATION. BROADLEAF (See Tables K-1 and K-2)

STATIONS 28, 35, 44

Broadleaf vegetation was collected each month from June through October. Three samples were collected each month from each station plus a quality control sample. The samples were tested for I-131 by chemical separation and for gamma emitting isotopes by high resolution spectrometry.

The naturally occurring isotopes Be-7, K-40, and Th-228 were detected in the samples at normal environmental levels. No I-131 was detected in any of the 60 samples. Cesium-137 was detected in one sample at an average of 0.027 pCi/gm, wet. Cesium-137 is detected in other areas of the United States and is attributed to fallout from previous atomic weapons testing. The amounts detected are not considered to be significant.

See Figure K-1 for the levels of activities in food samples as represented in broadleaf vegetation in 1995.

FIGURE K-1
 FOOD - BROADLEAF VEGETATION
 QUARTERLY AVERAGE - ALL STATIONS
 K-40 I-131 CS-137

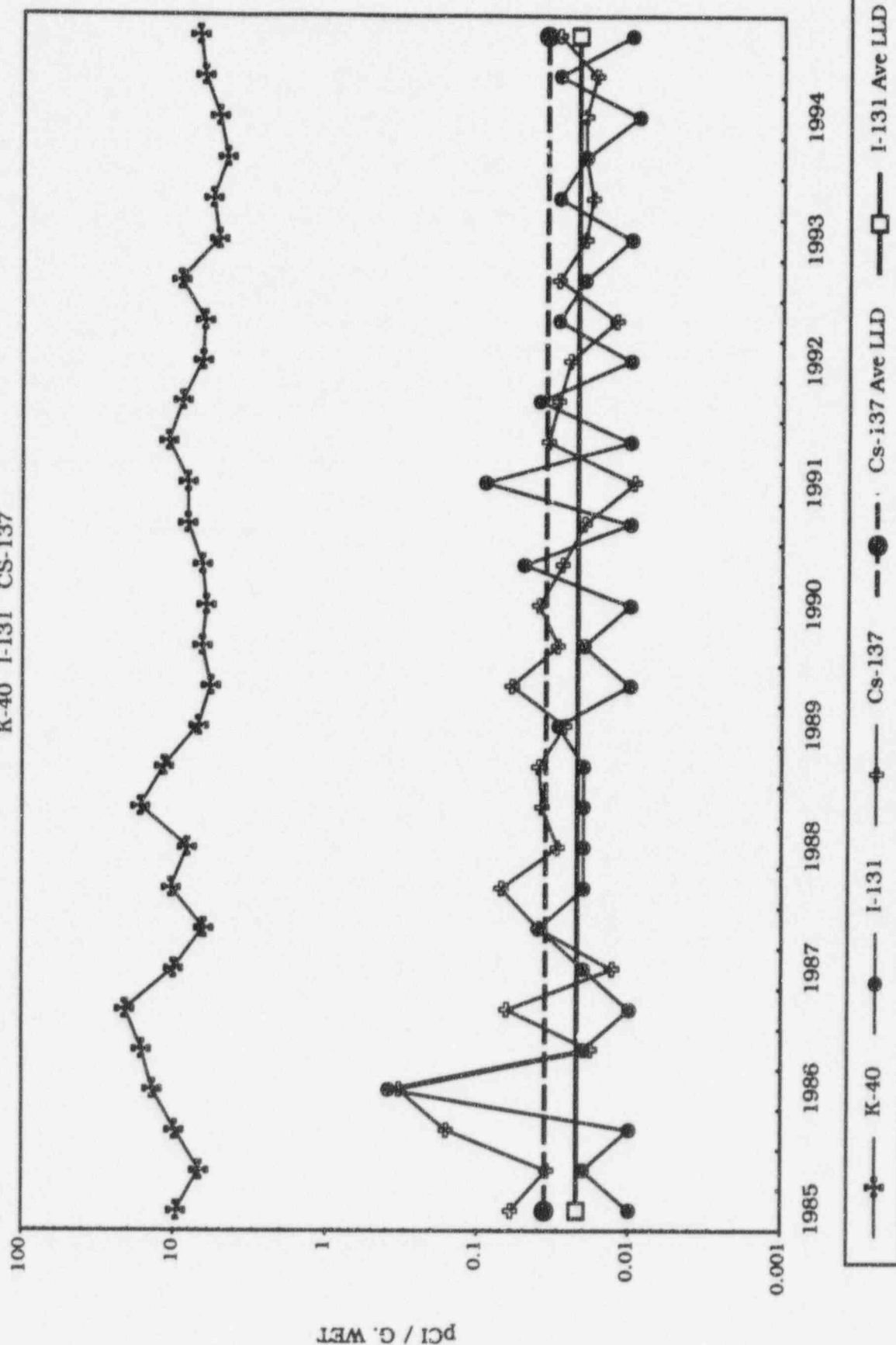


FIGURE K-1
 FOOD - BROADLEAF VEGETATION
 QUARTERLY AVERAGE - ALL STATIONS
 K-40 I-131 CS-137

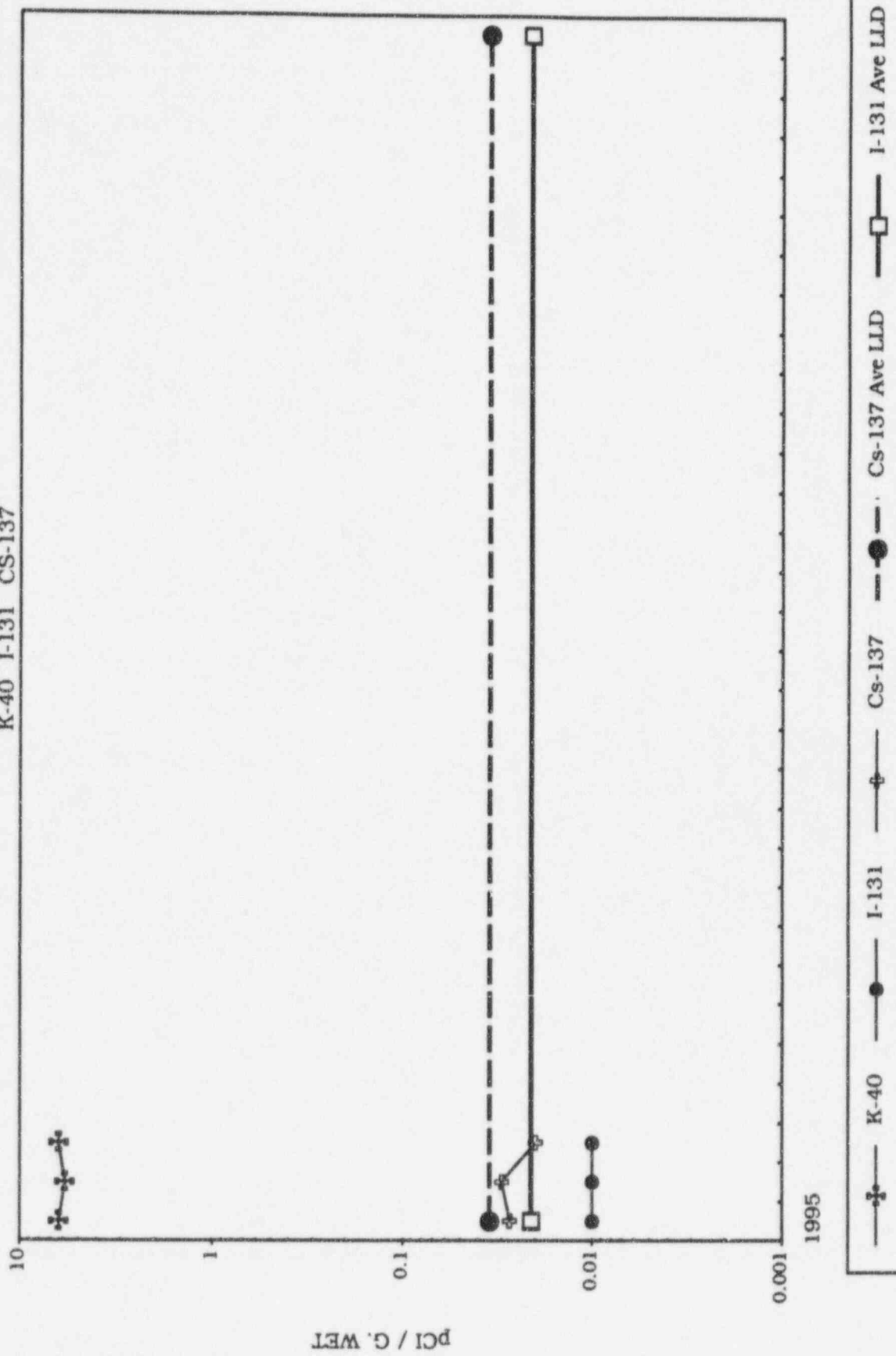


TABLE K-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
BROADLEAF TERRESTRIAL VEGETATION
PCI/GM, WET

SAMPLE NUCLIDE	STATION NUMBER		SECOND QUARTER 05/16, 06/28	THIRD QUARTER 07/18, 08/15, 09/19	FOURTH QUARTER 10/10
I-131 (by chemical separation)	35, 96, 101	Meanstd.dev. det./total range	L.T. 1. E-02 0/20 --	L.T. 1. E-02 0/30 --	L.T. 1. E-02 0/10 --
Be-7	35, 96, 101	Meanstd.dev. det./total range	2.1 ± 0.9 E 00 20/20 (0.71-4.3)E 00	1.78±0.8 E 00 30/30 (0.35-3.44)E 00	2.33±1.32E 00 10/10 ((0.59-4.20)E 00
K-40	35, 96, 101	Meanstd.dev. det./total range	6.3 ± 2.2 E 00 20/20 (3.69-11.6)E 00	5.86± 2.0E 00 30/30 (2.8-9.9)E 00	6.32±2.26E 00 10/10 (2.65-9.69)E 00
Co-60	35, 96, 101	Meanstd.dev. det./total range	L. T. 4. E-02 0/20 --	L.T. 2. E-02 0/30 --	L.T. 2. E-02 0/10 --
Ru-103	35, 96, 101	Meanstd.dev. det./total range	L. T. 4. E-02 0/20 --	L.T. 3. E-02 0/30 --	L.T. 2. E-02 0/10 --
I-131 (by gamma spectroscopy)	35, 96, 101	Meanstd.dev. det./total range	L. T. 8. E-02 0/20 --	L. T. 5. E-02 0/30 --	L.T. 3. E-02 0/10 --
Cs-134	35, 96, 101	Meanstd.dev. det./total range	L. T. 5. E-02 0/20 --	L. T. 3. E-02 0/30 --	L.T. 2. E-02 0/10 --

TABLE K-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
BROADLEAF TERRESTRIAL VEGETATION
PCI/GM, WET

SAMPLE NUCLIDE	STATION NUMBER		SECOND QUARTER 05/16, 06/28	THIRD QUARTER 07/18, 08/15, 09/19	FOURTH QUARTER 10/10
Cs-137	35,96, 101	Meanistd.dev. det./total range	2.72±0.74 E-02 1/20 --	L. T. 3. E-02 0/30 --	L. T. 2. E-02 0/10 --
Ba-140	35,96,101	Meanistd.dev. det./total range	L. T. 7. E-02 0/20 --	L. T. 3. E-02 0/30 --	L. T. 3. E-02 0/10 --
Ra-226	35,96,101	Meanistd.dev. det./total range	L.T. 8. E-01 0/20 --	L.T. 5. E-01 0/30 --	L.T. 4. E-01 0/10 --
Th-228	35,96,101	Meanistd.dev. det./total range	9.02±4.56 E-02 7/20 (0.29-1.74)E-01	1.94±0.19E-01 1/30 --	L.T. 4. E-02 0/10 --

TABLE K-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
BROADLEAF TERRESTRIAL VEGETATION - PCI/GM, WET

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER	SECOND QUARTER 05/16, 06/28	THIRD QUARTER 07/18, 08/15, 09/19	FOURTH QUARTER 10/10
BE-7	28,35,44		2.1 ± 0.9 E 00(20/20)	1.78± 0.8 E 00(30/30)	2.33±1.32E 00(10/10)
K-40	28,35,44		6.3 ± 2.2 E 00(20/20)	5.86±1.95E 00(30/30)	6.32±2.26E 00(10/10)
Mn-54	28,35,44		L.T. 4. E-02 (0/20)	L.T. 3. E-02 (0/30)	L.T. 2. E-02 (0/10)
Co-58	28,35,44		L.T. 4. E-02 (0/20)	L.T. 3. E-02 (0/30)	L.T. 2. E-02 (0/10)
Fe-59	28,35,44		L.T. 9. E-02 (0/20)	L.T. 5. E-02 (0/30)	L.T. 4. E-02 (0/10)
Co-60	28,35,44		L.T. 4. E-02 (0/20)	L.T. 2. E-02 (0/30)	L.T. 2. E-02 (0/10)
Zn-65	28,35,44		L.T. 9. E-02 (0/20)	L.T. 6. E-02 (0/30)	L.T. 5. E-02 (0/10)
Zr-95	28,35,44		L.T. 4. E-02 (0/20)	L.T. 3. E-02 (0/30)	L.T. 2. E-02 (0/10)
Ru-103	28,35,44		L.T. 4. E-02 (0/20)	L.T. 3. E-02 (0/30)	L.T. 2. E-02 (0/10)
Ru-106	28,35,44		L.T. 4. E-01 (0/20)	L.T. 2. E-01 (0/30)	L.T. 2. E-01 (0/10)
I-131	28,35,44		L.T. 8. E-02 (0/20)	L.T. 5. E-02 (0/30)	L.T. 3. E-02 (0/10)
Cs-134	28,35,44		L.T. 5. E-02 (0/20)	L.T. 3. E-02 (0/30)	L.T. 2. E-02 (0/10)
Cs-137	28,35,44		2.72±0.74 E-02 (1/20)	L.T. 3. E-02 (0/30)	L.T. 2. E-02 (0/10)
Ba-140	28,35,44		L.T. 7. E-02 (0/20)	L.T. 3. E-02 (0/30)	L.T. 3. E-02 (0/10)
Ce-141	28,35,44		L.T. 6. E-02 (0/20)	L.T. 4. E-02 (0/30)	L.T. 4. E-02 (0/10)
Ce-144	28,35,44		L.T. 2. E-01 (0/20)	L.T. 2. E-01 (0/30)	L.T. 1. E-01 (0/10)
Ra-226	28,35,44		L.T. 8. E-01 (0/20)	L.T. 5. E-01 (0/30)	L.T. 4. E-01 (0/10)
Th-228	28,35,44		9.02±4.56 E-02 (7/20)	1.94 ±0.19E-01 (1/30)	L.T. 4. E-02 (0/10)

L. SHORELINE SEDIMENT

STATION 28

Shoreline sediment samples were collected in the spring and fall from Station 28, 1.8 miles, 150 degrees downstream of the release point of CNS. They were analyzed for gamma emitters by means of a high resolution gamma spectrometer. In the samples collected the naturally occurring isotopes Be-7, K-40, Ra-226 and Th-228 were detected at normal environmental levels. Cesium-137, a fission product, was detected at an average level of 0.082 pCi/gm, dry.

For the samples collected in the fourth quarter the naturally occurring isotopes K-40 and Ra-226 were detected at about the same level as in the second quarter. Thorium-228 had an average level of 0.99 pCi/gm dry for the fourth quarter. Beryllium-7 was detected at a level of 0.41 pCi/gm dry in the second quarter and was below the normal detection level in the fourth quarter. The average manganese-54, an activation product, was detected at a level of 0.011 pCi/gm dry. All other nuclides were below the detection limit for both the spring and fall.

Presented in Figure L-1 are the plots of the radionuclides K-40, I-131, Cs-134 and Cs-137 in shoreline sediment since 1985. No detections of I-131 nor Cs-134 were seen and K-40 was at a normal environmental level. The Cs-137 was at a low level which is found in many areas and media. Since sediment tends to trap and retain any elements in the water pathway, it acts as a good indicator of the effects on the water pathway of any reactor effluents.

FIGURE L-1
SHORELINE SEDIMENT
QUARTERLY AVERAGE - STATION 28
K-40 I-131 CS-134 CS-137

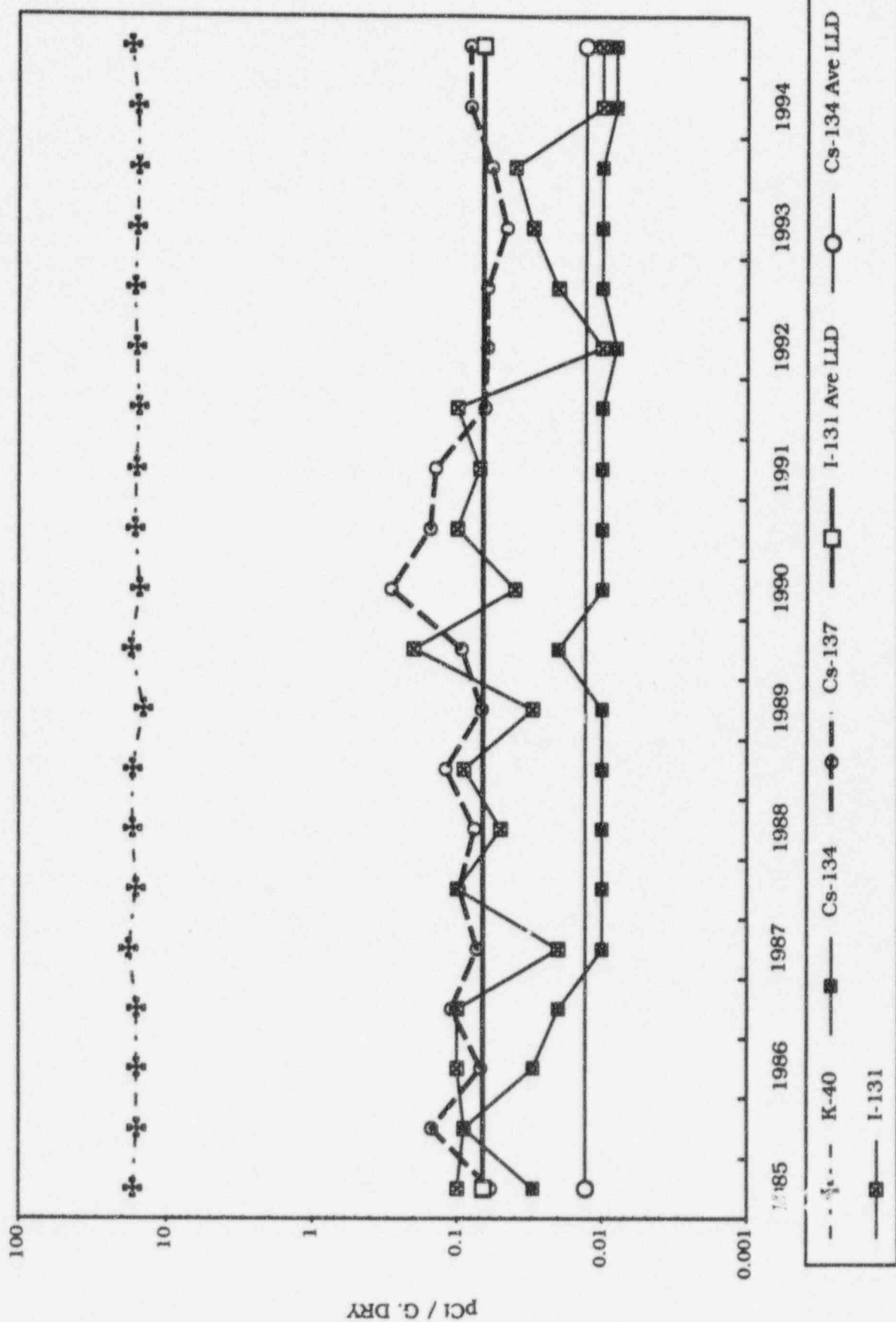


FIGURE L-1
SHORELINE SEDIMENT
QUARTERLY AVERAGE - STATION 28
K-40 I-131 CS-134 CS-137

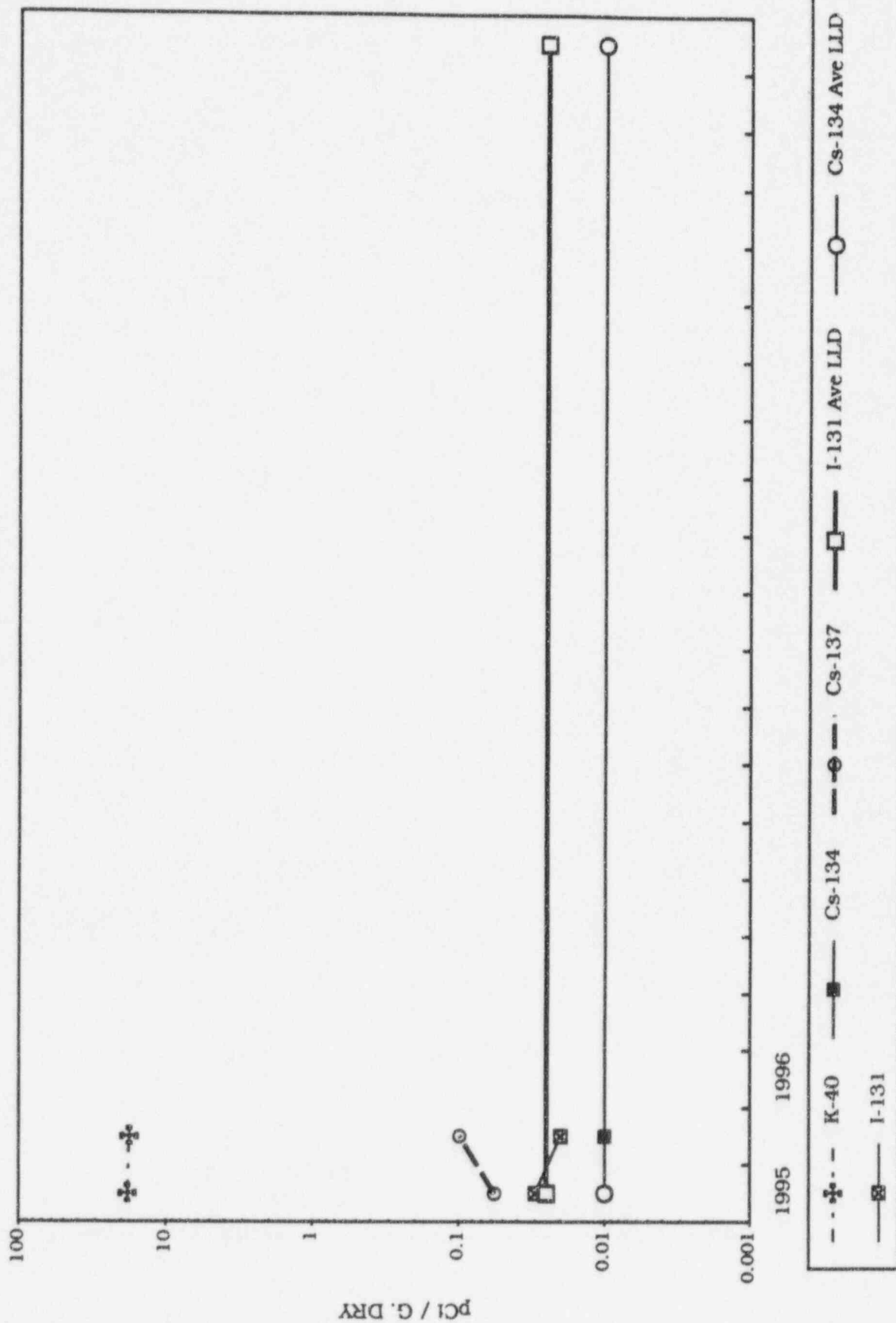


TABLE L-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AQUATIC
SHORELINE SEDIMENT - PCI/GM, DRY

SAMPLE NUCLIDE	STATION NUMBER		SECOND QUARTER 05/02	THIRD QUARTER	FOURTH QUARTER 10/31
Be-7	28	Meanstd.dev. det./total range	4.14 ± 0.63E-01 1/1 --		L.T. 8. E-02 0/2 --
K-40	28	Meanstd.dev. det./total range	1.83 ± 0.18E 01 1/1 --		1.78±0.07E 01 2/2 (1.77-1.78)E 01
Mn-54	28	Meanstd.dev. det./total range	9.58 ± 5.44E-03 1/1 --		1.18±0.198E-02 2/2 (1.04-1.32)E-02
CO-60	28	Meanstd.dev. det./total range	L.T. 9. E-03 0/1 --		L.T. 9. E-03 0/2 --
I-131 (by gamma spectroscopy)	28	Meanstd.dev. det./total range	L.T. 3. E-02 0/1 --		L.T. 2. E-02 0/2 --
Cs-134	28	Meanstd.dev. det./total range	L.T. 1. E-02 0/1 --		L.T. 1. E-02 0/2 --
Cs-137	28	Meanstd.dev. det./total range	5.73 ± 0.63E-02 1/1 --		9.87±0.127E-02 2/2 (9.78-9.96)E-02
Ra-226	28	Meanstd.dev. det./total range	1.80 ± 0.18E 00 1/1 --		1.94±0.14E 00 2/2 (1.84-2.04)E 00
Th-228	28	Meanstd.dev. det./total range	L.T. 3. E-02 0/1 --		9.91±0.127E-01 2/2 (0.98-1.0)E 00

TABLE L-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AQUATIC
SHORELINE SEDIMENT - PCI/GM, DRY

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER	SECOND QUARTER 05/02	THIRD QUARTER	FOURTH QUARTER 10/31
BE-7	28		4.14±0.63 E-01 (1/1)		L.T. 8. E-02 (0/2)
K-40	28		1.83±0.18 E 01 (1/1)		1.78± 0.07E 01 (2/2)
Mn-54	28		9.58 ±5.44E-03 (1/1)		1.18±0.198E-02 (2/2)
Co-58	28		L.T. 9. E-03 (0/1)		L.T. 8. E-03 (0/2)
Fe-59	28		L.T. 2. E-02 (0/1)		L.T. 2. E-02 (0/2)
Co-60	28		L.T. 9. E-03 (0/1)		L.T. 9. E-03 (0/2)
Zn-65	28		L.T. 2. E-02 (0/1)		L.T. 2. E-02 (0/2)
Zr-95	28		L.T. 1. E-02 (0/1)		L.T. 1. E-02 (0/2)
Ru-103	28		L.T. 1. E-02 (0/1)		L.T. 9. E-03 (0/2)
Ru-106	28		L.T. 8. E-02 (0/1)		L.T. 8. E-02 (0/2)
I-131	28		L.T. 3. E-02 (0/1)		L.T. 2. E-02 (0/2)
Cs-134	28		L.T. 1. E-02 (0/1)		L.T. 1. E-02 (0/2)
Cs-137	28		5.73±0.63 E-02 (1/1)		9.87±0.127E-02 (2/2)
Ba-140	28		L.T. 3. E-02 (0/1)		L.T. 1. E-02 (0/2)
Ce-141	28		L.T. 2. E-02 (0/1)		L.T. 2. E-02 (0/2)
Ce-144	28		L.T. 6. E-02 (0/1)		L.T. 6. E-02 (0/2)
Ra-226	28		1.80±0.18 E 00 (1/1)		1.94± 0.14E 00 (2/2)
Th-228	28		L.T. 3. E-02 (0/1)		9.91±0.127E-01 (2/2)

SECTION VII
COMPLETE DATA TABLES

A, B, C,
GROSS ALPHA, GROSS BETA, I-131
STATIONS 01-10

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 01

STATION 01 - 0.1 MI. 225 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)	(PCI/CU.M.)	DATE TIME		(PCI/CU. M.)				
01/03	01/10	1.02E 04	CU. FT.	3.3 ± 0.3	E-02	2.2 ± 1.2	E-03	01/14	LT.	2.	E-02	
01/10	01/17	1.01E 04	CU. FT.	3.9 ± 0.4	E-02	2.0 ± 1.3	E-03	01/21	LT.	2.	E-02	
01/17	01/23	8.86E 03	CU. FT.	2.6 ± 0.4	E-02	3.5 ± 1.6	E-03	01/26	LT.	3.	E-02	
01/23	01/31	1.14E 04	CU. FT.	3.8 ± 0.3	E-02	2.7 ± 1.2	E-03	02/04	LT.	2.	E-02	
01/31	02/07	9.97E 03	CU. FT.	2.1 ± 0.3	E-02	1.6 ± 1.1	E-03	02/11	LT.	3.	E-02	
02/07	02/14	1.04E 04	CU. FT.	2.9 ± 0.3	E-02	2.0 ± 1.2	E-03	02/18	LT.	4.	E-02	
02/14	02/21	9.88E 03	CU. FT.	2.7 ± 0.3	E-02	1.4 ± 1.0	E-03	02/25	LT.	4.	E-02	
02/21	02/28	9.84E 03	CU. FT.	1.9 ± 0.3	E-02	LT. 1.	E-03	03/04	LT.	4.	E-02	
02/28	03/07	1.06E 04	CU. FT.	2.9 ± 0.3	E-02	1.5 ± 1.0	E-03	03/12	LT.	2.	E-02	
03/07	03/14	1.01E 04	CU. FT.	2.3 ± 0.3	E-02	3.2 ± 1.7	E-03	03/18	LT.	2.	E-02	
03/14	03/21	9.63E 03	CU. FT.	1.9 ± 0.3	E-02	1.4 ± 1.2	E-03	03/24	LT.	4.	E-02	
03/21	03/28	1.00E 04	CU. FT.	1.1 ± 0.3	E-02	LT. 1.	E-03	03/30	LT.	2.	E-02	
03/28	04/04	1.05E 04	CU. FT.	2.0 ± 0.3	E-02	2.0 ± 1.2	E-03	04/09	LT.	3.	E-02	
04/04	04/11	9.91E 03	CU. FT.	2.0 ± 0.3	E-02	1.3 ± 1.0	E-03	04/14	LT.	3.	E-02	
04/11	04/18	9.89E 03	CU. FT.	1.4 ± 0.3	E-02	LT. 1.	E-03	04/21	LT.	2.	E-02	
04/18	04/25	1.01E 04	CU. FT.	1.2 ± 0.3	E-02	LT. 2.	E-03	04/29	LT.	3.	E-02	
04/25	05/02	4.69E 03	CU. FT.	3.0 ± 0.6	E-02	LT. 4.	E-03*	05/27	LT.	1.	E-02	
05/02	05/09	8.57E 03	CU. FT.	1.4 ± 0.3	E-02	2.0 ± 1.3	E-03	05/16	LT.	4.	E-02	
05/09	05/16	9.70E 03	CU. FT.	1.0 ± 0.2	E-02	LT. 1.	E-03	05/19	LT.	3.	E-02	
05/16	05/23	1.01E 04	CU. FT.	1.5 ± 0.3	E-02	1.5 ± 1.1	E-03	05/26	LT.	3.	E-02	
05/23	05/30	1.00E 04	CU. FT.	1.0 ± 0.2	E-02	1.1 ± 1.0	E-03	06/01	LT.	2.	E-02	
05/30	06/06	7.42E 03	CU. FT.	2.1 ± 0.4	E-02	LT. 2.	E-03	06/09	LT.	3.	E-02	
06/06	06/13	6.82E 03	CU. FT.	2.3 ± 0.4	E-02	LT. 2.	E-03	06/18	LT.	6.	E-02	
06/13	06/20	9.88E 03	CU. FT.	2.6 ± 0.3	E-02	LT. 1.	E-03	06/25	LT.	4.	E-02	
06/20	06/27	1.02E 04	CU. FT.	2.7 ± 0.3	E-02	3.8 ± 1.5	E-03	07/02	LT.	4.	E-02	
06/27	07/05	1.12E 04	CU. FT.	1.8 ± 0.3	E-02	3.9 ± 1.5	E-03	07/12	LT.	5.	E-02	
07/05	07/11	8.71E 03	CU. FT.	2.3 ± 0.3	E-02	3.5 ± 1.8	E-03	07/15	LT.	3.	E-02	
07/11	07/18	1.00E 04	CU. FT.	2.5 ± 0.3	E-02	LT. 2.	E-03	07/22	LT.	3.	E-02	
07/18	07/25	1.00E 04	CU. FT.	2.4 ± 0.3	E-02	1.5 ± 1.3	E-03	07/27	LT.	2.	E-02	
07/25	08/01	1.02E 04	CU. FT.	2.8 ± 0.4	E-02	2.7 ± 1.4	E-03	08/05	LT.	3.	E-02	
08/01	08/08	9.85E 03	CU. FT.	1.5 ± 0.3	E-02	LT. 2.	E-03	08/10	LT.	2.	E-02	

*The Gr-A LLD could not be met because of the low air volume.

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 01

STATION 01 - 0.1 MI. 225 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER	
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131	
DATE	DATE			(PCI/CU.M.)		(PCI/CU.M.)		DATE	TIME	(PCI/CU. M.)	
08/08	08/15	1.01E 04	CU. FT.	2.0 ± 0.3	E-02	2.0 ± 1.4	E-03	08/17		LT. 2.	E-02
08/15	08/22	1.07E 04	CU. FT.	1.8 ± 0.3	E-02	1.9 ± 1.2	E-03	08/27		LT. 3.	E-02
08/22	08/29	9.88E 03	CU. FT.	4.5 ± 0.4	E-02	2.8 ± 1.7	E-03	09/01		LT. 3.	E-02
08/29	09/05	1.01E 04	CU. FT.	3.2 ± 0.3	E-02	2.6 ± 1.4	E-03	09/08		LT. 3.	E-02
09/05	09/12	1.00E 04	CU. FT.	3.1 ± 0.3	E-02	2.7 ± 1.4	E-03	09/18		LT. 4.	E-02
09/12	09/19	9.84E 03	CU. FT.	2.8 ± 0.3	E-02	L. T. 2.	E-03	09/22		LT. 3.	E-02
09/19	09/26	1.02E 04	CU. FT.	3.0 ± 0.4	E-02	L. T. 2.	E-03	10/01		LT. 4.	E-02
09/26	10/03	1.02E 04	CU. FT.	4.5 ± 0.4	E-02	2.4 ± 1.4	E-03	10/07		LT. 3.	E-02
10/03	10/10	1.01E 04	CU. FT.	2.4 ± 0.3	E-02	L. T. 1.	E-03	10/13		LT. 3.	E-02
10/10	10/17	1.02E 04	CU. FT.	3.0 ± 0.4	E-02	2.2 ± 1.5	E-03	10/20		LT. 3.	E-02
10/17	10/24	1.00E 04	CU. FT.	2.0 ± 0.3	E-02	1.7 ± 1.4	E-03	10/28		LT. 3.	E-02
10/24	10/31	9.97E 03	CU. FT.	3.7 ± 2.0	E-03	L. T. 2.	E-03	11/04		LT. 3.	E-02
10/31	11/07*										
11/07	11/14	1.00E 04	CU. FT.	2.8 ± 0.3	E-02	L. T. 2.	E-03	11/19		LT. 3.	E-02
11/14	11/21	1.00E 04	CU. FT.	3.0 ± 0.4	E-02	1.9 ± 1.2	E-03	11/23		LT. 2.	E-02
11/21	11/28	1.00E 04	CU. FT.	2.9 ± 0.3	E-02	1.7 ± 1.3	E-03	11/30		LT. 2.	E-02
11/28	12/05	1.00E 04	CU. FT.	2.9 ± 0.4	E-02	4.6 ± 1.8	E-03	12/07		LT. 3.	E-02
12/05	12/12	1.03E 04	CU. FT.	2.7 ± 0.3	E-02	1.9 ± 1.4	E-03	12/14		LT. 2.	E-02
12/12	12/18	5.26E 03	CU. FT.	8.0 ± 0.8	E-02	4.3 ± 2.3	E-03	12/27		LT. 5.	E-02
12/18	12/26	1.18E 03	CU. FT.	2.8 ± 0.3	E-02	L. T. 2.	E-03	12/29		LT. 2.	E-02
12/26	01/02	9.86E 03	CU. FT.	5.4 ± 0.4	E-02	1.9 ± 1.4	E-03	01/04		LT. 2.	E-02

*Sample not collected - pump out of service.

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 02

STATION 02 - 0.75 MI. 225 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)	(PCI/CU.M.)	DATE TIME		(PCI/CU. M.)				
01/03	01/10	1.05E 04	CU. FT.	4.1 ± 0.4	E-02	1.9 ± 1.1	E-03	01/14	LT.	1.	E-02	
01/10	01/17	9.90E 03	CU. FT.	3.6 ± 0.4	E-02	2.3 ± 1.4	E-03	01/21	LT.	2.	E-02	
01/17	01/23	8.68E 03	CU. FT.	2.3 ± 0.3	E-02	2.6 ± 1.4	E-03	01/26	LT.	3.	E-02	
01/23	01/31	1.02E 04	CU. FT.	3.9 ± 0.4	E-02	2.6 ± 1.3	E-03	02/04	LT.	3.	E-02	
01/31	02/07	1.04E 04	CU. FT.	2.0 ± 0.3	E-02	1.3 ± 1.0	E-03	02/11	LT.	3.	E-02	
02/07	02/14	9.97E 03	CU. FT.	2.6 ± 0.3	E-02	1.8 ± 1.2	E-03	02/18	LT.	4.	E-02	
02/14	02/21	1.01E 04	CU. FT.	2.2 ± 0.3	E-02	1.4 ± 1.0	E-03	02/25	LT.	4.	E-02	
02/21	02/28	9.61E 03	CU. FT.	1.7 ± 0.3	E-02	L.T. 1.	E-03	03/04	LT.	4.	E-02	
02/28	03/07	1.04E 04	CU. FT.	3.3 ± 0.3	E-02	3.0 ± 1.3	E-03	03/12	LT.	2.	E-02	
03/07	03/14	1.03E 04	CU. FT.	2.2 ± 0.3	E-02	L.T. 2.	E-03	03/18	LT.	2.	E-02	
03/14	03/21	1.00E 04	CU. FT.	1.8 ± 0.3	E-02	1.5 ± 1.2	E-03	03/24	LT.	3.	E-02	
03/21	03/28	9.67E 03	CU. FT.	1.2 ± 0.3	E-02	L.T. 1.	E-03	03/30	LT.	3.	E-02	
03/28	04/04	1.07E 04	CU. FT.	1.8 ± 0.3	E-02	2.9 ± 1.3	E-03	04/09	LT.	2.	E-02	
04/04	04/11	1.00E 04	CU. FT.	1.8 ± 0.3	E-02	1.2 ± 1.0	E-03	04/14	LT.	3.	E-02	
04/11	04/18	9.90E 03	CU. FT.	2.0 ± 0.3	E-02	1.5 ± 1.2	E-03	04/21	LT.	2.	E-02	
04/18	04/25	1.02E 04	CU. FT.	1.3 ± 0.3	E-02	L.T. 2.	E-03	04/29	LT.	2.	E-02	
04/25	05/02	9.76E 03	CU. FT.	1.4 ± 0.3	E-02	L.T. 2.	E-03	05/10	LT.	4.	E-02	
05/02	05/09	9.94E 03	CU. FT.	1.6 ± 0.3	E-02	1.3 ± 1.0	E-03	05/16	LT.	4.	E-02	
05/09	05/16	1.01E 04	CU. FT.	1.1 ± 0.2	E-02	1.5 ± 1.2	E-03	05/19	LT.	3.	E-02	
05/16	05/23	1.01E 04	CU. FT.	1.8 ± 0.3	E-02	1.5 ± 1.1	E-03	05/26	LT.	3.	E-02	
05/23	05/30	1.00E 04	CU. FT.	0.87 ± 0.23	E-02	1.4 ± 1.0	E-03	06/01	LT.	2.	E-02	
05/30	06/06	1.01E 03	CU. FT.	1.8 ± 0.3	E-02	L.T. 2.	E-03	06/09	LT.	2.	E-02	
06/06	06/13	4.06E 03	CU. FT.	3.4 ± 0.6	E-02	3.4 ± 2.7	E-03	06/18	LT.	9.	E-02*	
06/13	06/20	8.83E 03	CU. FT.	2.8 ± 0.3	E-02	3.2 ± 1.7	E-03	06/25	LT.	5.	E-02	
06/20	06/27	9.65E 03	CU. FT.	2.8 ± 0.3	E-02	3.5 ± 1.5	E-03	07/02	LT.	4.	E-02	
06/27	07/05	7.55E 03	CU. FT.	2.5 ± 0.4	E-02	6.7 ± 2.3	E-03	07/12	LT.	7.	E-02	
07/05	07/11	9.07E 03	CU. FT.	2.4 ± 0.3	E-02	3.4 ± 1.7	E-03	07/15	LT.	3.	E-02	
07/11	07/18	9.28E 03	CU. FT.	3.9 ± 0.4	E-02	2.9 ± 1.7	E-03	07/22	LT.	3.	E-02	
07/18	07/25	9.69E 03	CU. FT.	2.0 ± 0.3	E-02	L.T. 2.	E-03	07/27	LT.	3.	E-02	
07/25	08/01	1.02E 04	CU. FT.	2.7 ± 0.4	E-02	1.5 ± 1.1	E-03	08/05	LT.	3.	E-02	
08/01	08/08	9.86E 03	CU. FT.	1.9 ± 0.3	E-02	2.6 ± 1.6	E-03	08/10	LT.	2.	E-02	
08/08	08/15	1.01E 04	CU. FT.	2.1 ± 0.3	E-02	L.T. 2.	E-03	08/17	LT.	2.	E-02	

*Required detection limit could not be reached due to low volume sampled.

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 02

STATION 02 - 0.75 MI. 225 DEG. IND

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)		(PCI/CU.M.)		DATE	TIME	(PCI/CU. M.)		
08/15	08/22	1.07E 04	CU. FT.	2.0 ± 0.3	E-02	1.4 ± 1.1	E-03	08/27		LT.	3.	E-02
08/22	08/29	1.01E 04	CU. FT.	4.0 ± 0.4	E-02	3.0 ± 1.7	E-03	09/01		LT.	3.	E-02
08/29	09/05	1.01E 04	CU. FT.	3.7 ± 0.4	E-02	2.5 ± 1.4	E-03	09/08		LT.	3.	E-02
09/05	09/12	1.00E 04	CU. FT.	2.9 ± 0.3	E-02	2.5 ± 1.3	E-03	09/18		LT.	4.	E-02
09/12	09/19	1.01E 04	CU. FT.	2.6 ± 0.3	E-02	L.T. 2.	E-03	09/22		LT.	3.	E-02
09/19	09/26	1.01E 04	CU. FT.	2.6 ± 0.3	E-02	L.T. 2.	E-03	10/01		LT.	3.	E-02
09/26	10/03	9.96E 03	CU. FT.	4.5 ± 0.4	E-02	2.1 ± 1.4	E-03	10/07		LT.	3.	E-02
10/03	10/10	1.02E 04	CU. FT.	2.2 ± 0.3	E-02	L.T. 2.	E-03	10/13		LT.	3.	E-02
10/10	10/17	1.00E 04	CU. FT.	3.3 ± 0.4	E-02	3.2 ± 1.7	E-03	10/20		LT.	3.	E-02
10/17	10/24	1.01E 04	CU. FT.	2.0 ± 0.3	E-02	L.T. 2.	E-03	10/28		LT.	3.	E-02
10/24	10/31	9.98E 03	CU. FT.	1.7 ± 0.3	E-02	L.T. 2.	E-03	11/04		LT.	3.	E-02
10/31	11/07	1.02E 04	CU. FT.	2.4 ± 0.3	E-02	1.4 ± 1.2	E-03	11/10		LT.	2.	E-02
11/07	11/14	9.94E 03	CU. FT.	3.6 ± 0.3	E-02	5.1 ± 1.2	E-03	11/19		LT.	3.	E-02
11/14	11/21	9.70E 03	CU. FT.	3.8 ± 0.3	E-02	2.5 ± 1.0	E-03	11/23		LT.	2.	E-02
11/21	11/28	1.00E 04	CU. FT.	2.0 ± 0.3	E-02	2.0 ± 1.4	E-03	11/30		LT.	2.	E-02
11/28	12/05	1.00E 04	CU. FT.	2.1 ± 0.3	E-02	L.T. 1.	E-03	12/07		LT.	3.	E-02
12/05	12/12	1.01E 04	CU. FT.	2.6 ± 0.3	E-02	2.0 ± 1.4	E-03	12/14		LT.	2.	E-02
12/12	12/18	8.60E 03	CU. FT.	4.3 ± 0.5	E-02	2.8 ± 1.5	E-03	12/27		LT.	3.	E-02
12/18	12/26	1.21E 04	CU. FT.	2.7 ± 0.3	E-02	1.8 ± 1.3	E-03	12/29		LT.	2.	E-02
12/26	01/02	9.61E 03	CU. FT.	4.5 ± 0.4	E-02	L.T. 2.	E-03	01/04		LT.	2.	E-02

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 03

STATION 03 - 2.5 MI. 338 DEG. IND.

COLL. TIME START STOP DATE DATE		VOLUME	UNITS	AP FILTER GROSS BETA (PCI/CU.M.)		AP FILTER GROSS ALPHA (PCI/CU.M.)		MID-COUNT TIME DATE TIME	CHARCOAL FILTER I-131 (PCI/CU. M.)		
01/03	01/10	1.00E 04	CU. FT.	4.2 ± 0.4	E-02	2.4 ± 1.2	E-03	01/14	LT. 2.	E-02	
01/10	01/17	1.01E 04	CU. FT.	3.8 ± 0.4	E-02	LT. 1.	E-03	01/21	LT. 2.	E-02	
01/17	01/24	1.01E 04	CU. FT.	2.4 ± 0.3	E-02	1.7 ± 1.1	E-03	01/26	LT. 3.	E-02	
01/24	01/31	1.05E 04	CU. FT.	4.0 ± 0.4	E-02	3.1 ± 1.3	E-03	02/04	LT. 2.	E-02	
01/31	02/07	9.64E 03	CU. FT.	2.1 ± 0.3	E-02	1.1 ± 1.0	E-03	02/11	LT. 3.	E-02	
02/07	02/14	1.01E 04	CU. FT.	2.7 ± 0.3	E-02	2.8 ± 1.4	E-03	02/18	LT. 4.	E-02	
02/14	02/21	1.03E 04	CU. FT.	2.0 ± 0.3	E-02	LT. 1.	E-03	02/25	LT. 4.	E-02	
02/21	02/28	9.93E 03	CU. FT.	2.0 ± 0.3	E-02	2.8 ± 1.3	E-03	03/04	LT. 4.	E-02	
02/28	03/07	1.04E 04	CU. FT.	2.9 ± 0.3	E-02	1.9 ± 1.1	E-03	03/12	LT. 2.	E-02	
03/07	03/14	9.75E 03	CU. FT.	1.8 ± 0.3	E-02	LT. 2.	E-03	03/18	LT. 3.	E-02	
03/14	03/21	9.98E 03	CU. FT.	1.8 ± 0.3	E-02	LT. 1.	E-03	03/24	LT. 4.	E-02	
03/21	03/28	1.02E 04	CU. FT.	1.4 ± 0.3	E-02	LT. 1.	E-03	03/30	LT. 2.	E-02	
03/28	04/04	1.04E 04	CU. FT.	1.1 ± 0.2	E-02	1.3 ± 1.0	E-03	04/09	LT. 3.	E-02	
04/04	04/11	9.88E 03	CU. FT.	1.8 ± 0.3	E-02	1.4 ± 1.0	E-03	04/14	LT. 3.	E-02	
04/11	04/18	9.78E 03	CU. FT.	1.8 ± 0.3	E-02	LT. 1.	E-03	04/21	LT. 2.	E-02	
04/18	04/25	1.01E 04	CU. FT.	1.3 ± 0.3	E-02	1.9 ± 1.4	E-03	04/29	LT. 3.	E-02	
04/25	05/02	1.03E 04	CU. FT.	1.6 ± 0.3	E-02	LT. 2.	E-03	05/10	LT. 4.	E-02	
05/02	05/09	9.82E 03	CU. FT.	1.1 ± 0.2	E-02	1.4 ± 1.0	E-03	05/16	LT. 4.	E-02	
05/09	05/16	1.01E 04	CU. FT.	1.1 ± 0.2	E-02	2.2 ± 1.4	E-03	05/19	LT. 3.	E-02	
05/16	05/23	1.01E 04	CU. FT.	1.4 ± 0.3	E-02	.97 ± .92	E-03	05/26	LT. 3.	E-02	
05/23	05/30	.									
05/30	06/06	.									
06/06	06/13	..									
06/13	06/20	9.81E 03	CU. FT.	2.3 ± 0.3	E-02	2.3 ± 1.4	E-03	06/25	LT. 4.	E-02	
06/20	06/27	1.01E 04	CU. FT.	2.0 ± 0.3	E-02	2.8 ± 1.3	E-03	07/02	LT. 4.	E-02	
06/27	07/05	1.15E 04	CU. FT.	1.1 ± 0.2	E-02	3.0 ± 1.3	E-03	07/12	LT. 4.	E-02	
07/05	07/11	8.48E 03	CU. FT.	1.9 ± 0.3	E-02	1.7 ± 1.4	E-03	07/15	LT. 3.	E-02	
07/11	07/18	9.99E 03	CU. FT.	2.6 ± 0.3	E-02	LT. 2.	E-03	07/22	LT. 3.	E-02	
07/18	07/25	1.20E 04	CU. FT.	1.8 ± 0.3	E-02	LT. 1.	E-03	07/27	LT. 2.	E-02	
07/25	08/01	1.03E 04	CU. FT.	1.9 ± 0.3	E-02	1.2 ± 1.0	E-03	08/05	LT. 2.	E-02	
08/01	08/08	9.70E 03	CU. FT.	2.4 ± 0.3	E-02	LT. 2.	E-03	08/10	LT. 2.	E-02	
08/08	08/15	1.02E 04	CU. FT.	2.1 ± 0.3	E-02	1.8 ± 1.3	E-03	08/17	LT. 2.	E-02	

*Sample not collected - flooding

**Low air volume

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 03

STATION 03 - 2.5 MI. 338 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)		(PCI/CU.M.)		DATE TIME		(PCI/CU. M.)		
08/15	08/22	1.06E 04	CU. FT.	0.97 ± 0.23E-02		L.T. 1.	E-03	08/27	LT. 3.	E-02		
08/22	08/29	9.79E 03	CU. FT.	4.6 ± 0.4 E-02		2.5 ± 1.7	E-03	09/01	LT. 3.	E-02		
08/29	09/05	1.00E 04	CU. FT.	3.3 ± 0.3 E-02		1.9± 1.2	E-03	09/08	LT. 3.	E-02		
09/05	09/12	1.00E 04	CU. FT.	2.1 ± 0.3 E-02		2.3 ± 1.3	E-03	09/18	LT. 4.	E-02		
09/12	09/19	9.91E 03	CU. FT.	2.9 ± 0.3 E-02		L.T. 2.	E-03	09/22	LT. 3.	E-02		
09/19	09/26	1.02E 04	CU. FT.	1.5 ± 0.3 E-02		L.T. 2.	E-03	10/01	LT. 4.	E-02		
10/03	10/10	1.00E 04	CU. FT.	2.4 ± 0.3 E-02		1.5 ± 1.2	E-03	10/13	LT. 3.	E-02		
10/10	10/17	1.02E 04	CU. FT.	2.5 ± 0.3 E-02		1.9 ± 1.4	E-03	10/20	LT. 3.	E-02		
10/17	10/24	1.00E 04	CU. FT.	1.9 ± 0.3 E-02		2.1 ± 1.5	E-03	10/28	LT. 3.	E-02		
10/24	10/31	9.96E 03	CU. FT.	1.4 ± 0.3 E-02		L. T. 2.	E-03	11/04	LT. 3.	E-02		
10/31	11/07	1.02E 04	CU. FT.	2.3 ± 0.3 E-02		L. T. 1.	E-03	11/10	LT. 2.	E-02		
11/07	11/14	1.00E 04	CU. FT.	3.0 ± 0.3 E-02		L.T. 2.	E-03	11/19	LT. 3.	E-02		
11/14	11/21	1.02E 04	CU. FT.	2.9 ± 0.4 E-02		1.1 ± 1.0	E-03	11/23	LT. 2.	E-02		
11/21	11/28	1.00E 04	CU. FT.	2.9 ± 0.3 E-02		2.8 ± 1.5	E-03	11/30	LT. 2.	E-02		
11/28	12/05	1.01E 04	CU. FT.	2.1 ± 0.3 E-02		2.3 ± 1.4	E-03	12/07	LT. 2.	E-02		
12/05	12/12	1.01E 04	CU. FT.	2.3 ± 0.3 E-02		2.4 ± 1.5	E-03	12/14	LT. 2.	E-02		
12/12	12/18	8.33E 03	CU. FT.	4.2 ± 0.5 E-02		4.8 ± 1.9	E-03	12/27	LT. 3.	E-02		
12/18	12/26	1.17E 04	CU. FT.	2.5 ± 0.3 E-02		L. T. 2.	E-03	12/29	LT. 2.	E-02		
12/26	01/02	1.00E 04	CU. FT.	3.6 ± 0.4 E-02		1.6± 1.3	E-03	01/04	LT. 2.	E-02		

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 04

STATION 04 - 3.0 MI. 43 DEG. IND.

COLL. TIME START STOP DATE DATE		VOLUME	UNITS	AP FILTER GROSS BETA (PCI/CU.M.)		AP FILTER GROSS ALPHA (PCI/CU.M.)		MID-COUNT TIME DATE TIME	CHARCOAL FILTER I-131 (PCI/CU. M.)		
01/03	01/10	1.02E 04	CU. FT.	7.6 ± 0.5	E-02	5.7 ± 2.0	E-03	01/14	LT.	2.	E-02
01/10	01/17	1.00E 04	CU. FT.	8.5 ± 0.5	E-02	3.8 ± 1.7	E-03	01/21	LT.	2.	E-02
01/17	01/24	7.90E 03	CU. FT.	6.5 ± 0.6	E-02	5.7 ± 2.1	E-03	01/26	LT.	3.	E-02
01/24	01/31	7.52E 03	CU. FT.	1.1 ± 0.1	E-01	5.9 ± 2.4	E-03	02/04	LT.	3.	E-02
01/31	02/07	9.38E 03	CU. FT.	5.5 ± 0.5	E-02	3.9 ± 1.7	E-03	02/11	LT.	3.	E-02
02/07	02/14	9.47E 03	CU. FT.	5.0 ± 0.4	E-02	5.3 ± 1.9	E-03	02/18	LT.	4.	E-02
02/14	02/21	1.02E 04	CU. FT.	4.0 ± 0.4	E-02	1.8 ± 1.1	E-03	02/25	LT.	4.	E-02
02/21	02/28	9.86E 03	CU. FT.	1.5 ± 0.3	E-02	LT. 1.	E-03	03/04	LT.	4.	E-02
02/28	03/07	1.04E 04	CU. FT.	2.8 ± 0.3	E-02	2.2 ± 1.1	E-03	03/12	LT.	2.	E-02
03/07	03/14	9.71E 03	CU. FT.	2.8 ± 0.3	E-02	LT. 2.	E-03	03/18	LT.	3.	E-02
03/14	03/21	9.97E 03	CU. FT.	1.7 ± 0.3	E-02	1.4 ± 1.2	E-03	03/24	LT.	4.	E-02
03/21	03/28	1.01E 04	CU. FT.	1.1 ± 0.3	E-02	LT. 1.	E-03	03/30	LT.	2.	E-02
03/28	04/04	1.02E 04	CU. FT.	2.2 ± 0.3	E-02	4.0 ± 1.6	E-03	04/09	LT.	3.	E-02
04/04	04/11	9.94E 03	CU. FT.	2.0 ± 0.3	E-02	1.6 ± 1.1	E-03	04/14	LT.	3.	E-02
04/11	04/18	9.92E 03	CU. FT.	1.9 ± 0.3	E-02	LT. 1.	E-03	04/21	LT.	2.	E-02
04/18	04/25	1.01E 04	CU. FT.	1.4 ± 0.3	E-02	1.7 ± 1.4	E-03	04/29	LT.	3.	E-02
04/25	05/02	1.02E 04	CU. FT.	1.5 ± 0.3	E-02	LT. 2.	E-03	05/10	LT.	4.	E-02
05/02	05/09	9.83E 03	CU. FT.	1.5 ± 0.3	E-02	1.5 ± 1.1	E-03	05/16	LT.	4.	E-02
05/09	05/16	1.01E 04	CU. FT.	1.3 ± 0.3	E-02	2.1 ± 1.3	E-03	05/19	LT.	3.	E-02
05/16	05/23	1.01E 04	CU. FT.	1.5 ± 0.3	E-02	1.7 ± 1.1	E-03	05/26	LT.	3.	E-02
05/23	05/30	1.01E 04	CU. FT.	0.84 ± 0.23	E-02	LT. 9.	E-04	06/09	LT.	2.	E-02
05/30	06/06	1.01E 04	CU. FT.	1.4 ± 0.3	E-02	LT. 2.	E-03	06/09	LT.	2.	E-02
06/06	06/13	1.01E 04	CU. FT.	1.5 ± 0.3	E-02	LT. 1.	E-03	06/18	LT.	4.	E-02
06/13	06/20	6.66E 03	CU. FT.	4.0 ± 0.5	E-02	4.4 ± 2.3	E-03	06/25	LT.	6.	E-02
06/20	06/27	1.02E 04	CU. FT.	3.0 ± 0.3	E-02	3.2 ± 1.4	E-03	07/02	LT.	4.	E-02
06/27	07/05	1.09E 04	CU. FT.	1.6 ± 0.3	E-02	2.2 ± 1.2	E-03	07/12	LT.	5.	E-02
07/05	07/11	8.63E 03	CU. FT.	3.1 ± 0.4	E-02	3.1 ± 1.7	E-03	07/15	LT.	3.	E-02
07/11	07/18	9.96E 03	CU. FT.	4.8 ± 0.4	E-02	2.7 ± 1.6	E-03	07/22	LT.	3.	E-02
07/18	07/25	1.01E 04	CU. FT.	3.6 ± 0.4	E-02	2.8 ± 1.5	E-03	07/27	LT.	2.	E-02
07/25	08/01	1.03E 04	CU. FT.	3.5 ± 0.4	E-02	1.5 ± 1.1	E-03	08/05	LT.	2.	E-02
08/01	08/08	9.65E 03	CU. FT.	2.4 ± 0.3	E-02	LT. 2.	E-03	08/10	LT.	3.	E-02
08/08	08/15	9.65E 03	CU. FT.	3.6 ± 0.4	E-02	2.4 ± 1.5	E-03	08/17	LT.	3.	E-02
08/15	08/22	9.87E 03	CU. FT.	3.0 ± 0.3	E-02	3.4 ± 1.6	E-03	08/27	LT.	4.	E-02
08/22	08/29	9.84E 03	CU. FT.	2.8 ± 0.3	E-02	LT. 2.	E-03	09/01	LT.	3.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 04

STATION 04 - 3.0 MI. 43 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)		(PCI/CU.M.)		DATE	TIME	(PCI/CU. M.)		
08/29	09/05	1.01E 04	CU. FT.	5.5 ± 0.4	E-02	2.9 ± 1.4	E-03	09/08		L.T.	3.	E-02
09/05	09/12	1.00E 04	CU. FT.	4.8 ± 0.4	E-02	4.4 ± 1.7	E-03	09/18		L.T.	4.	E-02
09/12	09/19	1.02E 04	CU. FT.	3.3 ± 0.3	E-02	L. T. 2.	E-03	09/22		L.T.	3.	E-02
09/19	09/26	9.99E 03	CU. FT.	4.0 ± 0.4	E-02	L. T. 2.	E-03	10/01		L.T.	4.	E-02
09/26	10/03	1.01E 04	CU. FT.	5.9 ± 0.4	E-02	4.6 ± 1.8	E-03	10/07		L.T.	3.	E-02
10/03	10/10	9.98E 03	CU. FT.	3.3 ± 0.3	E-02	2.0 ± 1.3	E-03	10/13		L.T.	3.	E-02
10/10	10/17	9.51E 03	CU. FT.	5.7 ± 0.4	E-02	4.6 ± 1.8	E-03	10/20		L.T.	3.	E-02
10/17	10/24	9.89E 03	CU. FT.	2.2 ± 0.3	E-02	L. T. 2.	E-03	10/28		L.T.	3.	E-02
10/24	10/31	1.00E 04	CU. FT.	1.7 ± 0.3	E-02	L. T. 2.	E-03	11/04		L.T.	3.	E-02
10/31	11/07	1.02E 04	CU. FT.	2.3 ± 0.3	E-02	1.5 ± 1.2	E-03	11/10		L.T.	2.	E-02
11/07	11/14	9.98E 03	CU. FT.	3.1 ± 0.3	E-02	L.T. 2.	E-03	11/19		L.T.	3.	E-02
11/14	11/21	1.01E 04	CU. FT.	3.1 ± 0.4	E-02	1.1 ± 1.0	E-03	11/23		L.T.	2.	E-02
11/21	11/28	1.00E 04	CU. FT.	2.9 ± 0.3	E-02	3.5 ± 1.7	E-03	11/30		L.T.	2.	E-02
11/28	12/05	1.00E 04	CU. FT.	2.8 ± 0.4	E-02	2.4 ± 1.4	E-03	12/07		L.T.	3.	E-02
12/05	12/12	1.01E 04	CU. FT.	2.3 ± 0.3	E-02	2.0 ± 1.4	E-03	12/14		L.T.	2.	E-02
12/12	12/18	8.60E 03	CU. FT.	4.0 ± 0.4	E-02	2.7 ± 1.5	E-03	12/27		L.T.	3.	E-02
12/18	12/26	1.19E 04	CU. FT.	2.4 ± 0.3	E-02	2.5 ± 1.5	E-03	12/29		L.T.	2.	E-02
12/26	01/02	9.79E 03	CU. FT.	4.2 ± 0.4	E-02	2.0 ± 1.4	E-03	01/04		L.T.	2.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 05

STATION 05 - 3.5 MI. 102 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)	(PCI/CU.M.)	DATE TIME		(PCI/CU. M.)				
01/03	01/10	1.02E 04	CU. FT.	5.6 ± 0.4	E-02	1.8 ± 1.1	E-03	01/14	LT.	1.	E-02	
01/10	01/17	1.00E 04	CU. FT.	5.6 ± 0.4	E-02	3.2 ± 1.5	E-03	01/21	LT.	1.	E-02	
01/17	01/24	1.00E 04	CU. FT.	3.7 ± 0.4	E-02	1.8 ± 1.2	E-03	01/26	LT.	2.	E-02	
01/24	01/31	1.05E 04	CU. FT.	2.9 ± 0.3	E-02	2.2 ± 1.2	E-03	02/04	LT.	1.	E-02	
01/31	02/07	9.74E 03	CU. FT.	3.1 ± 0.3	E-02	2.3 ± 1.3	E-03	02/11	LT.	1.	E-02	
02/07	02/14	1.00E 04	CU. FT.	2.0 ± 0.3	E-02	2.2 ± 1.2	E-03	02/18	LT.	3.	E-02	
02/14	02/21	9.94E 03	CU. FT.	3.2 ± 0.3	E-02	1.5 ± 1.1	E-03	02/25	LT.	2.	E-02	
02/21	02/28	9.86E 03	CU. FT.	2.3 ± 0.3	E-02	2.1 ± 1.2	E-03	03/04	LT.	3.	E-02	
02/28	03/07	1.05E 04	CU. FT.	3.7 ± 0.4	E-02	1.7 ± 1.0	E-03	03/12	LT.	1.	E-02	
03/07	03/14	9.71E 03	CU. FT.	3.2 ± 0.4	E-02	LT. 2.	E-03	03/18	LT.	1.	E-02	
03/14	03/21	1.00E 04	CU. FT.	2.4 ± 0.3	E-02	LT. 1.	E-03	03/24	LT.	2.	E-02	
03/21-03/28		1.00E 04	CU. FT.	1.9 ± 0.3	E-02	LT. 1.	E-03	03/30	LT.	2.	E-02	
03/28	04/04	1.04E 04	CU. FT.	2.2 ± 0.3	E-02	3.9 ± 1.5	E-03	04/09	LT.	1.	E-02	
04/04	04/11	9.61E 03	CU. FT.	3.2 ± 0.4	E-02	1.8 ± 1.2	E-03	04/14	LT.	2.	E-02	
04/11	04/18	9.92E 03	CU. FT.	2.1 ± 0.3	E-02	1.5 ± 1.2	E-03	04/21	LT.	1.	E-02	
04/18	04/25	1.00E 04	CU. FT.	2.2 ± 0.3	E-02	LT. 2.	E-03	04/29	LT.	2.	E-02	
04/25	05/02	1.02E 04	CU. FT.	1.7 ± 0.3	E-02	LT. 2.	E-03	05/10	LT.	2.	E-02	
05/02	05/09	9.83E 03	CU. FT.	1.5 ± 0.3	E-02	0.95 ± 0.9	E-03	05/16	LT.	2.	E-02	
05/09	05/16	1.01E 04	CU. FT.	1.2 ± 0.2	E-02	1.8 ± 1.3	E-03	05/19	LT.	2.	E-02	
05/16	05/23	1.01E 04	CU. FT.	1.8 ± 0.3	E-02	2.8 ± 1.4	E-03	05/26	LT.	2.	E-02	
05/23	05/30	9.98E 03	CU. FT.	0.98 ± 0.24	E-02	1.7 ± 1.1	E-03	06/01	LT.	2.	E-02	
05/30	06/06	1.01E 04	CU. FT.	1.7 ± 0.3	E-02	LT. 2.	E-03	06/09	LT.	2.	E-02	
06/06	06/13	1.01E 04	CU. FT.	1.4 ± 0.2	E-02	LT. 1.	E-03	06/18	LT.	2.	E-02	
06/13	06/20	9.95E 03	CU. FT.	3.0 ± 0.3	E-02	2.0 ± 1.4	E-03	06/25	LT.	3.	E-02	
06/20	06/27	9.78E 03	CU. FT.	3.0 ± 0.3	E-02	4.1 ± 1.6	E-03	07/02	LT.	3.	E-02	
06/27	07/05	1.07E 04	CU. FT.	1.4 ± 0.2	E-02	1.9 ± 1.1	E-03	07/12	LT.	3.	E-02	
07/05	07/11	8.63E 03	CU. FT.	2.8 ± 0.4	E-02	2.2 ± 1.5	E-03	07/15	LT.	2.	E-02	
07/11	07/18	9.96E 03	CU. FT.	3.8 ± 0.4	E-02	3.2 ± 1.7	E-03	07/22	LT.	2.	E-02	
07/18	07/25*	1.01E 04	CU. FT.					07/27	LT.	2.	E-02	
07/25	08/01	1.03E 04	CU. FT.	3.5 ± 0.4	E-02	1.8 ± 1.2	E-03	08/05	LT.	2.	E-02	
08/01	08/08	9.65E 03	CU. FT.	2.6 ± 0.3	E-02	LT. 2.	E-03	08/10	LT.	2.	E-02	
08/08	08/15	1.01E 04	CU. FT.	3.3 ± 0.3	E-02	3.6 ± 1.7	E-03	08/17	LT.	2.	E-02	
08/15	08/22	1.07E 04	CU. FT.	2.3 ± 0.3	E-02	2.4 ± 1.3	E-03	08/27	LT.	2.	E-02	

*Air Particulate no good - filter assembly malfunction. Charcoal filter ok.

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 05

STATION 05 - 3.5 MI. 102 DEG. IND.

COLL. TIME START STOP DATE DATE		VOLUME	UNITS	AP FILTER GROSS BETA (PCI/CU.M.)		AP FILTER GROSS ALPHA (PCI/CU.M.)		MID-COUNT TIME DATE TIME	CHARCOAL FILTER I-131 (PCI/CU. M.)		
08/22	08/29	9.85E 03	CU. FT.	3.1 ± 0.3	E-02	2.3 ± 1.7	E-03	09/01	LT. 1.	E-02	
08/29	09/05	1.01E 04	CU. FT.	4.5 ± 0.4	E-02	4.1 ± 1.7	E-03	09/08	LT. 2.	E-02	
09/05	09/12	1.00E 04	CU. FT.	4.2 ± 0.4	E-02	3.1 ± 1.4	E-03	09/18	LT. 3.	E-02	
09/12	09/19	1.02E 04	CU. FT.	3.5 ± 0.3	E-02	2.5 ± 1.6	E-03	09/22	LT. 2.	E-02	
09/19	09/26	1.00E 04	CU. FT.	2.2 ± 0.3	E-02	LT. 2.	E-03	10/01	LT. 2.	E-02	
09/26	10/03	1.01E 04	CU. FT.	4.5 ± 0.4	E-02	2.8 ± 1.5	E-03	10/07	LT. 2.	E-02	
10/03	10/10	9.99E 03	CU. FT.	3.4 ± 0.4	E-02	1.6 ± 1.2	E-03	10/13	LT. 2.	E-02	
10/10	10/17	1.02E 04	CU. FT.	3.5 ± 0.4	E-02	3.0 ± 1.6	E-03	10/20	LT. 2.	E-02	
10/17	10/24	1.01E 04	CU. FT.	2.9 ± 0.3	E-02	2.0 ± 1.4	E-03	10/28	LT. 1.	E-02	
10/24	10/31	1.00E 04	CU. FT.	1.5 ± 0.3	E-02	L. T. 2.	E-03	11/04	LT. 2.	E-02	
10/31	11/07	1.02E 04	CU. FT.	2.3 ± 0.3	E-02	L. T. 1.	E-03	11/10	LT. 2.	E-02	
11/07	11/14	9.98E 03	CU. FT.	3.1 ± 0.3	E-02	L. T. 2.	E-03	11/19	LT. 2.	E-02	
11/14	11/21	1.01E 04	CU. FT.	3.0 ± 0.4	E-02	L. T. 1.	E-03	11/23	LT. 1.	E-02	
11/21	11/28	1.00E 04	CU. FT.	2.4 ± 0.3	E-02	1.5 ± 1.3	E-03	11/30	LT. 2.	E-02	
11/28	12/05	1.00E 04	CU. FT.	2.8 ± 0.4	E-02	2.7 ± 1.5	E-03	12/07	LT. 2.	E-02	
12/05	12/12	1.00E 04	CU. FT.	2.1 ± 0.3	E-02	L. T. 1.	E-03	12/14	LT. 1.	E-02	
12/12	12/18	8.60E 03	CU. FT.	5.0 ± 0.5	E-02	6.5 ± 2.2	E-03	12/27	LT. 2.	E-02	
12/18	12/26	1.19E 04	CU. FT.	2.1 ± 0.3	E-02	LT. 2.	E-03	12/29	LT. 1.	E-02	
12/26	01/02	9.76E 03	CU. FT.	4.1 ± 0.4	E-02	LT. 2.	E-03	01/04	LT. 1.	E-02	

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 06

STATION 06 - 3.0 MI. 165 DEG. IND.

COLL. TIME START STOP DATE DATE		VOLUME	UNITS	AP FILTER GROSS BETA (PCI/CU.M.)		AP FILTER GROSS ALPHA (PCI/CU.M.)		MID-COUNT TIME DATE TIME	CHARCOAL FILTER I-131 (PCI/CU. M.)		
01/03	01/10	1.02E 04	CU. FT.	3.8 ± 0.4	E-02	2.1 ± 1.2	E-03	01/14	LT.	2.	E-02
01/10	01/17	1.00E 04	CU. FT.	3.6 ± 0.4	E-02	3.9 ± 1.6	E-03	01/21	LT.	4.	E-02
01/17	01/24	1.00E 04	CU. FT.	2.7 ± 0.3	E-02	1.7 ± 1.1	E-03	01/26	LT.	2.	E-02
01/24	01/31	9.60E 03	CU. FT.	*				02/04	LT.	2.	E-02
01/31	02/07	9.77E 03	CU. FT.	1.9 ± 0.3	E-02	L.T. 9.	E-04	02/11	LT.	3.	E-02
02/07	02/14	1.00E 04	CU. FT.	2.4 ± 0.3	E-02	L.T. 9.	E-04	02/19	LT.	3.	E-02
02/14	02/21	1.03E 04	CU. FT.	2.1 ± 0.3	E-02	L.T. 1.	E-03	02/25	LT.	2.	E-02
02/21	02/28	9.86E 03	CU. FT.	1.7 ± 0.3	E-02	2.3 ± 1.2	E-03	03/04	LT.	3.	E-02
02/28	03/07	1.05E 04	CU. FT.	3.2 ± 0.3	E-02	1.4 ± 0.9	E-03	03/12	LT.	3.	E-02
03/07	03/14	9.71E 03	CU. FT.	1.9 ± 0.3	E-02	1.9 ± 1.5	E-03	03/18	LT.	2.	E-02
03/14	03/21	9.98E 03	CU. FT.	1.9 ± 0.3	E-02	2.4 ± 1.4	E-03	03/24	LT.	2.	E-02
03/21	03/28	1.01E 04	CU. FT.	1.3 ± 0.3	E-02	L.T. 1.	E-03	03/30	LT.	3.	E-02
03/28	04/04	1.05E 04	CU. FT.	2.1 ± 0.3	E-02	1.3 ± 1.0	E-03	04/09	LT.	2.	E-02
04/04	04/11	9.88E 03	CU. FT.	1.8 ± 0.3	E-02	1.6 ± 1.1	E-03	04/15	LT.	3.	E-02
04/11	04/18	9.88E 03	CU. FT.	1.6 ± 0.3	E-02	1.8 ± 1.2	E-03	04/22	LT.	3.	E-02
04/18	04/25	1.02E 04	CU. FT.	1.1 ± 0.3	E-02	L.T. 2.	E-03	05/01	LT.	4.	E-02
04/25	05/02	1.01E 04	CU. FT.	1.6 ± 0.3	E-02	L.T. 2.	E-03	05/10	LT.	5.	E-02
05/02	05/09	9.83E 03	CU. FT.	1.5 ± 0.3	E-02	L.T. 0.9	E-03	05/16	LT.	5.	E-02
05/09	05/16	1.01E 04	CU. FT.	1.1 ± 0.2	E-02	L.T. 1.	E-03	05/19	LT.	4.	E-02
05/16	05/23	1.01E 04	CU. FT.	1.6 ± 0.3	E-02	2.5 ± 1.3	E-03	05/26	LT.	2.	E-02
05/23	05/30	1.01E 04	CU. FT.	1.0 ± 0.2	E-02	1.5 ± 1.1	E-03	06/02	LT.	3.	E-02
05/30	06/06	1.01E 04	CU. FT.	1.4 ± 0.3	E-02	L.T. 2.	E-03	06/09	LT.	2.	E-02
06/06	06/13	1.01E 04	CU. FT.	1.4 ± 0.2	E-02	L.T. 1.	E-03	06/18	LT.	3.	E-02
06/13	06/20	9.49E 03	CU. FT.	2.3 ± 0.3	E-02	2.1 ± 1.4	E-03	06/25	LT.	3.	E-02
06/20	06/27	1.01E 04	CU. FT.	2.5 ± 0.3	E-02	3.6 ± 1.5	E-03	07/02	LT.	3.	E-02
06/27	07/05	1.07E 04	CU. FT.	1.6 ± 0.3	E-02	2.6 ± 1.3	E-03	07/12	LT.	4.	E-02
07/05	07/11	8.62E 03	CU. FT.	2.2 ± 0.3	E-02	3.3 ± 1.7	E-03	07/15	LT.	4.	E-02
07/11	07/18	9.13E 03	CU. FT.	3.4 ± 0.4	E-02	L.T. 2.	E-03	07/22	LT.	2.	E-02
07/18	07/25	1.01E 04	CU. FT.	2.2 ± 0.3	E-02	1.8 ± 1.3	E-03	07/27	LT.	2.	E-02
07/25	08/01	1.03E 04	CU. FT.	2.4 ± 0.4	E-02	L.T. 1.	E-03	08/05	LT.	3.	E-02
08/01	08/08	9.65E 03	CU. FT.	2.3 ± 0.3	E-02	L.T. 2.	E-03	08/10	LT.	2.	E-02
08/08	08/15	1.01E 04	CU. FT.	2.1 ± 0.3	E-02	L.T. 2.	E-03	08/18	LT.	3.	E-02
08/15	08/22	1.07E 04	CU. FT.	2.2 ± 0.3	E-02	1.4 ± 1.1	E-03	08/27	LT.	2.	E-02

*Sampler separated.

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 06

STATION 06 - 3.0 MI. 165 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)	(PCI/CU.M.)	DATE TIME		(PCI/CU. M.)				
08/22	08/29	9.85E 03	CU. FT.	4.0 ± 0.4	E-02	2.8 ± 1.7	E-03	09/01	LT.	3.	E-02	
08/29	09/05	1.01E 04	CU. FT.	3.4 ± 0.3	E-02	2.0 ± 1.3	E-03	09/08	LT.	2.	E-02	
09/05	09/12	1.00E 04	CU. FT.	3.0 ± 0.3	E-02	2.3 ± 1.3	E-03	09/18	LT.	3.	E-02	
09/12	09/19	1.02E 04	CU. FT.	2.5 ± 0.3	E-02	L. T. 2.	E-03	09/22	LT.	2.	E-02	
09/19	09/26	1.01E 04	CU. FT.	2.4 ± 0.3	E-02	L. T. 2.	E-03	10/01	LT.	3.	E-02	
09/26	10/03	9.97E 03	CU. FT.	3.2 ± 0.3	E-02	2.7 ± 1.5	E-03	10/07	LT.	3.	E-02	
10/03	10/10	9.97E 03	CU. FT.	2.6 ± 0.3	E-02	L. T. 1.	E-03	10/13	LT.	3.	E-02	
10/10	10/17	1.02E 04	CU. FT.	2.5 ± 0.3	E-02	L. T. 2.	E-03	11/07	LT.	4.	E-02	
10/17	10/24	1.01E 04	CU. FT.	2.2 ± 0.3	E-02	3.2 ± 1.6	E-03	10/28	LT.	3.	E-02	
10/24	10/31	1.01E 04	CU. FT.	1.8 ± 0.3	E-02	L. T. 2.	E-03	11/04	LT.	3.	E-02	
10/31	11/07	1.01E 04	CU. FT.	3.1 ± 0.4	E-02	1.4 ± 1.2	E-03	11/10	LT.	2.	E-02	
11/07	11/14	9.98E 03	CU. FT.	3.6 ± 0.4	E-02	L. T. 2.	E-03	11/19	LT.	3.	E-02	
11/14	11/21	1.00E 04	CU. FT.	3.5 ± 0.4	E-02	L. T. 1.	E-03	11/23	LT.	2.	E-02	
11/21	11/28	1.00E 04	CU. FT.	3.5 ± 0.4	E-02	L. T. 1.	E-03	11/30	LT.	2.	E-02	
11/28	12/05	1.00E 04	CU. FT.	2.9 ± 0.4	E-02	2.6 ± 1.5	E-03	12/07	LT.	2.	E-02	
12/05	12/12	1.01E 04	CU. FT.	2.6 ± 0.3	E-02	1.5 ± 1.3	E-03	12/14	LT.	2.	E-02	
12/12	12/18	8.59E 03	CU. FT.	5.1 ± 0.5	E-02	4.0 ± 1.8	E-03	12/27	LT.	3.	E-02	
12/18	12/26	1.19E 04	CU. FT.	2.6 ± 0.3	E-02	L.T. 2.	E-03	12/29	LT.	2.	E-02	
12/26	01/02	9.77E 03	CU. FT.	4.7 ± 0.4	E-02	1.8 ± 1.4	E-03	01/04	LT.	2.	E-02	

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 07

STATION 07 - 2.5 MI. 230 DEG. IND.

COLL. TIME		STOP	VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER	
START	DATE				GROSS BETA		GROSS ALPHA		TIME		I-131	
DATE	DATE				(PCI/CU.M.)		(PCI/CU.M.)		DATE	TIME	(PCI/CU. M.)	
01/03	01/10		1.05E 04	CU. FT.	3.8 ± 0.4	E-02	2.5 ± 1.2	E-03	01/14		LT. 2.	E-02
01/10	01/17		9.94E 03	CU. FT.	3.3 ± 0.4	E-02	3.0 ± 1.5	E-03	01/21		LT. 4.	E-02
01/17	01/23		8.66E 03	CU. FT.	2.7 ± 0.4	E-02	1.8 ± 1.2	E-03	01/26		LT. 2.	E-02
01/23	01/31		1.10E 04	CU. FT.	4.9 ± 0.4	E-02	2.8 ± 1.3	E-03	02/04		LT. 2.	E-02
01/31	02/07		1.04E 04	CU. FT.	1.8 ± 0.3	E-02	L.T. 8.	E-04	02/11		LT. 3.	E-02
02/07	02/14		9.98E 03	CU. FT.	2.5 ± 0.3	E-02	1.7 ± 1.1	E-03	02/19		LT. 3.	E-02
02/14	02/21		1.01E 04	CU. FT.	2.5 ± 0.3	E-02	2.1 ± 1.2	E-03	02/25		LT. 2.	E-02
02/21	02/28		9.64E 03	CU. FT.	1.6 ± 0.3	E-02	1.7 ± 1.1	E-03	03/04		LT. 3.	E-02
02/28	03/07		1.03E 04	CU. FT.	2.4 ± 0.3	E-02	1.2 ± 0.9	E-03	03/12		LT. 3.	E-02
03/07	03/14		1.03E 04	CU. FT.	2.5 ± 0.3	E-02	2.2 ± 1.5	E-03	03/18		LT. 1.	E-02
03/14	03/21		1.00E 04	CU. FT.	1.7 ± 0.3	E-02	3.9 ± 1.7	E-03	03/24		LT. 2.	E-02
03/21	03/28		9.69E 03	CU. FT.	1.2 ± 0.3	E-02	1.6 ± 1.3	E-03	03/30		LT. 3.	E-02
03/28	04/04		1.06E 04	CU. FT.	2.0 ± 0.3	E-02	2.5 ± 1.3	E-03	04/09		LT. 2.	E-02
04/04	04/11		1.00E 04	CU. FT.	1.9 ± 0.3	E-02	2.0 ± 1.2	E-03	04/15		LT. 3.	E-02
04/11	04/18		9.74E 03	CU. FT.	1.5 ± 0.3	E-02	L.T. 1.	E-03	04/22		LT. 3.	E-02
04/18	04/25		1.02E 04	CU. FT.	1.2 ± 0.3	E-02	L.T. 2.	E-03	05/01		LT. 4.	E-02
04/25	05/02		9.70E 03	CU. FT.	1.6 ± 0.3	E-02	2.0 ± 1.5	E-03	05/10		LT. 5.	E-02
05/02	05/09		9.93E 03	CU. FT.	1.5 ± 0.3	E-02	2.7 ± 1.3	E-03	05/16		LT. 5.	E-02
05/09	05/16		1.01E 04	CU. FT.	1.2 ± 0.2	E-02	1.9 ± 1.3	E-03	05/19		LT. 4.	E-02
05/16	05/23		9.99E 03	CU. FT.	1.5 ± 0.3	E-02	2.5 ± 1.3	E-03	05/26		LT. 2.	E-02
05/23	05/30		1.00E 04	CU. FT.	0.91 ± 0.23	E-02	2.1 ± 1.2	E-03	06/02		LT. 3.	E-02
05/30	06/06		1.01E 04	CU. FT.	1.4 ± 0.3	E-02	L.T. 2.	E-03	06/09		LT. 2.	E-02
06/06	06/13		1.01E 04	CU. FT.	1.5 ± 0.3	E-02	L.T. 1.	E-03	06/18		LT. 3.	E-02
06/13	06/20		1.05E 04	CU. FT.	2.8 ± 0.3	E-02	3.6 ± 1.6	E-03	06/25		LT. 3.	E-02
06/20	06/27		1.01E 04	CU. FT.	2.5 ± 0.3	E-02	2.0 ± 1.2	E-03	07/02		LT. 3.	E-02
06/27	07/05		1.12E 04	CU. FT.	1.3 ± 0.2	E-02	3.9 ± 1.5	E-03	07/12		LT. 3.	E-02
07/05	07/11		9.05E 03	CU. FT.	2.1 ± 0.3	E-02	4.3 ± 1.8	E-03	07/15		LT. 4.	E-02
07/11	07/18		9.93E 03	CU. FT.	2.6 ± 0.3	E-02	3.2 ± 1.7	E-03	07/22		LT. 2.	E-02
07/18	07/25		9.71E 03	CU. FT.	2.3 ± 0.3	E-02	L.T. 1.	E-03	07/27		LT. 2.	E-02
07/25	08/01		1.02E 04	CU. FT.	2.5 ± 0.4	E-02	2.1 ± 1.3	E-03	08/05		LT. 3.	E-02
08/01	08/08		9.85E 03	CU. FT.	2.1 ± 0.3	E-02	3.3 ± 1.7	E-03	08/10		LT. 2.	E-02
08/08	08/15		1.01E 04	CU. FT.	1.8 ± 0.3	E-02	3.3 ± 1.6	E-03	08/18		LT. 3.	E-02
08/15	08/22		1.07E 04	CU. FT.	1.6 ± 0.3	E-02	1.4 ± 1.1	E-03	08/27		LT. 2.	E-02
08/22	08/29		1.01E 04	CU. FT.	3.7 ± 0.4	E-02	2.4 ± 1.6	E-03	09/01		LT. 3.	E-02
08/29	09/05		1.01E 04	CU. FT.	3.1 ± 0.3	E-02	2.8 ± 1.4	E-03	09/03		LT. 2.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 07

STATION 07 - 2.5 MI. 230 DEG. IND.

COLL. TIME		STOP	VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER	
START	DATE				GROSS BETA		GROSS ALPHA		TIME		1-131	
DATE	DATE				(PCI/CU.M.)		(PCI/CU.M.)		DATE	TIME	(PCI/CU. M.)	
09/05	09/12		1.00E 04	CU. FT.	2.3 ± 0.3	E-02	2.5 ± 1.3	E-03	09/18		LT. 3.	E-02
09/12	09/19		1.01E 04	CU. FT.	2.4 ± 0.3	E-02	L.T. 2.	E-03	09/22		LT. 2.	E-02
09/19	09/26		1.01E 04	CU. FT.	2.3 ± 0.3	E-02	L.T. 2.	E-03	10/01		LT. 3.	E-02
09/26	10/03		9.97E 03	CU. FT.	3.3 ± 0.3	E-02	2.4 ± 1.4	E-03	10/07		LT. 3.	E-02
10/03	10/10		1.02E 04	CU. FT.	2.6 ± 0.3	E-02	1.8 ± 1.2	E-03	10/13		LT. 2.	E-02
10/10	10/17		1.01E 04	CU. FT.	3.3 ± 0.4	E-02	3.2 ± 1.7	E-03	11/07		LT. 5.	E-02
10/17	10/24		1.01E 04	CU. FT.	2.1 ± 0.3	E-02	1.7 ± 1.4	E-03	10/28		LT. 3.	E-02
10/24	10/31		9.97E 03	CU. FT.	1.3 ± 0.3	E-02	L. T. 2.	E-03	11/04		LT. 3.	E-02
10/31	11/07		1.02E 04	CU. FT.	2.7 ± 0.3	E-02	2.1 ± 1.3	E-03	11/10		LT. 2.	E-02
11/07	11/14		9.93E 03	CU. FT.	3.4 ± 0.4	E-02	L. T. 2.	E-03	11/19		LT. 3.	E-02
11/14	11/21		9.73E 03	CU. FT.	2.9 ± 0.4	E-02	L. T. 1.	E-03	11/23		LT. 2.	E-02
11/21	11/28		1.00E 04	CU. FT.	2.8 ± 0.3	E-02	3.1 ± 1.6	E-03	11/30		LT. 2.	E-02
11/28	12/05		1.00E 04	CU. FT.	1.8 ± 0.3	E-02	2.4 ± 1.4	E-03	12/07		LT. 2.	E-02
12/05	12/12		1.01E 04	CU. FT.	1.7 ± 0.3	E-02	2.4 ± 1.5	E-03	12/14		LT. 2.	E-02
12/12	12/18		8.60E 03	CU. FT.	4.2 ± 0.5	E-02	4.0 ± 1.8	E-03	12/27		LT. 3.	E-02
12/18	12/26		1.21E 04	CU. FT.	2.5 ± 0.3	E-02	L.T. 2.	E-03	12/29		LT. 2.	E-02
12/26	01/02		9.60E 03	CU. FT.	5.2 ± 0.4	E-02	2.1 ± 1.4	E-03	01/04		LT. 2.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 08

STATION 08 - 2.5 MI. 260 DEG. IND.

COLL. TIME START STOP DATE DATE		VOLUME	UNITS	AP FILTER GROSS BETA (PCI/CU.M.)		AP FILTER GROSS ALPHA (PCI/CU.M.)		MID-COUNT TIME DATE TIME	CHARCOAL FILTER I-131 (PCI/CU. M.)		
01/03	01/10	1.04E 04	CU. FT.	3.4 ± 0.3	E-02	2.4 ± 1.2	E-03	01/14	LT.	2.	E-02
01/10	01/17	1.01E 04	CU. FT.	3.1 ± 0.3	E-02	2.0 ± 1.3	E-03	01/21	LT.	4.	E-02
01/17	01/24	9.70E 03	CU. FT.	2.4 ± 0.3	E-02	2.9 ± 1.4	E-03	01/26	LT.	2.	E-02
01/24	01/31	1.05E 04	CU. FT.	5.1 ± 0.4	E-02	5.7 ± 1.8	E-03	02/04	LT.	1.	E-02
01/31	02/07	9.95E 03	CU. FT.	2.5 ± 0.3	E-02	2.4 ± 1.3	E-03	02/11	LT.	3.	E-02
02/07	02/14	1.01E 04	CU. FT.	2.0 ± 0.3	E-02	2.1 ± 1.2	E-03	02/19	LT.	2.	E-02
02/14	02/21	1.03E 04	CU. FT.	2.1 ± 0.3	E-02	1.1 ± 0.9	E-03	02/25	LT.	2.	E-02
02/21	02/28	9.58E 03	CU. FT.	2.1 ± 0.3	E-02	1.7 ± 1.1	E-03	03/04	LT.	3.	E-02
02/28	03/07	1.07E 04	CU. FT.	3.2 ± 0.3	E-02	1.5 ± 1.0	E-03	03/12	LT.	3.	E-02
03/07	03/14	9.77E 03	CU. FT.	2.3 ± 0.3	E-02	LT. 2.	E-03	03/18	LT.	2.	E-02
03/14	03/21	9.98E 03	CU. FT.	1.7 ± 0.3	E-02	LT. 1.	E-03	03/24	LT.	2.	E-02
03/21	03/28	9.88E 03	CU. FT.	9.8 ± 2.6	E-03	LT. 1.	E-03	03/30	LT.	3.	E-02
03/28	04/04	1.06E 04	CU. FT.	1.8 ± 0.3	E-02	2.2 ± 1.2	E-03	04/09	LT.	2.	E-02
04/04	04/11	9.96E 03	CU. FT.	1.8 ± 0.3	E-02	1.2 ± 1.0	E-03	04/15	LT.	3.	E-02
04/11	04/18	9.73E 03	CU. FT.	1.9 ± 0.3	E-02	1.5 ± 1.2	E-03	04/22	LT.	3.	E-02
04/18	04/25	1.01E 04	CU. FT.	1.1 ± 0.3	E-02	LT. 2.	E-03	05/01	LT.	4.	E-02
04/25	05/02	9.90E 03	CU. FT.	1.6 ± 0.3	E-02	LT. 2.	E-03	05/10	LT.	5.	E-02
05/02	05/09	9.90E 03	CU. FT.	1.1 ± 0.2	E-02	2.2 ± 1.2	E-03	05/16	LT.	5.	E-02
05/09	05/16	1.01E 04	CU. FT.	1.2 ± 0.2	E-02	LT. 1.	E-03	05/19	LT.	4.	E-02
05/16	05/23	1.01E 04	CU. FT.	1.2 ± 0.3	E-02	1.5 ± 1.1	E-03	05/26	LT.	2.	E-02
05/23	05/30	1.00E 04	CU. FT.	0.91 ± 0.24	E-02	LT. 0.9	E-03	06/02	LT.	3.	E-02
05/30	06/06	1.01E 04	CU. FT.	1.5 ± 0.3	E-02	LT. 2.	E-03	06/09	LT.	2.	E-02
06/06	06/13	1.01E 04	CU. FT.	1.5 ± 0.3	E-02	1.2 ± 1.0	E-03	06/18	LT.	3.	E-02
06/13	06/20	9.20E 03	CU. FT.	3.6 ± 0.4	E-02	2.0 ± 1.4	E-03	06/25	LT.	3.	E-02
06/20	06/27	1.01E 04	CU. FT.	2.7 ± 0.3	E-02	1.7 ± 1.1	E-03	07/02	LT.	3.	E-02
06/27	07/05	8.70E 03	CU. FT.	2.3 ± 0.3	E-02	4.8 ± 1.9	E-03	07/12	LT.	4.	E-02
07/05	07/11	8.84E 03	CU. FT.	2.6 ± 0.3	E-02	LT. 2.	E-03	07/15	LT.	4.	E-02
07/11	07/18	9.81E 03	CU. FT.	2.3 ± 0.3	E-02	LT. 2.	E-03	07/22	LT.	2.	E-02
07/18	07/25	9.81E 03	CU. FT.	2.0 ± 0.3	E-02	LT. 1.	E-03	07/27	LT.	2.	E-02
07/25	08/01	*									
08/01	08/08	9.82E 03	CU. FT.	1.8 ± 0.3	E-02	2.2 ± 1.5	E-03	08/10	LT.	2.	E-02
08/08	08/15	1.01E 04	CU. FT.	3.4 ± 0.3	E-02	3.2 ± 1.6	E-03	08/18	LT.	3.	E-02

*Analyze for total activity only.

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 08

STATION 08 - 2.5 MI. 260 DEG. IND.

COLL. TIME START STOP DATE DATE		VOLUME	UNITS	AP FILTER GROSS BETA (PCI/CU.M.)		AP FILTER GROSS ALPHA (PCI/CU.M.)		MID-COUNT TIME DATE TIME	CHARCOAL FILTER I-131 (PCI/CU. M.)		
08/15	08/22	1.07E 04	CU. FT.	3.0 ± 0.3	E-02	1.9 ± 1.2	E-03	08/27	LT. 2.	E-02	
08/22	08/29	9.97E 03	CU. FT.	6.0 ± 0.4	E-02	3.4 ± 1.6	E-03	09/01	LT. 3.	E-02	
08/29	09/05	1.01E 04	CU. FT.	5.0 ± 0.4	E-02	2.2 ± 1.3	E-03	09/08	LT. 2.	E-02	
09/05	09/12	9.99E 03	CU. FT.	3.6 ± 0.4	E-02	3.1 ± 1.4	E-03	09/18	LT. 3.	E-02	
09/12	09/19	1.01E 04	CU. FT.	3.0 ± 0.3	E-02	L.T. 2.	E-03	09/22	LT. 2.	E-02	
09/19	09/26	1.01E 04	CU. FT.	2.2 ± 0.3	E-02	L.T. 2.	E-03	10/01	LT. 3.	E-02	
09/26	10/03	9.97E 03	CU. FT.	4.9 ± 0.4	E-02	4.3 ± 1.7	E-03	10/07	LT. 3.	E-02	
10/03	10/10	1.02E 04	CU. FT.	2.9 ± 0.3	E-02	1.7 ± 1.2	E-03	10/13	LT. 2.	E-02	
10/10	10/17	1.00E 04	CU. FT.	3.9 ± 0.4	E-02	4.0 ± 1.8	E-03	11/07	LT. 5.	E-02	
10/17	10/24	1.01E 04	CU. FT.	2.6 ± 0.3	E-02	L.T. 2.	E-03	10/28	LT. 3.	E-02	
10/24	10/31	1.00E 04	CU. FT.	1.4 ± 0.3	E-02	L.T. 2.	E-03	11/04	LT. 3.	E-02	
10/31	11/07	1.03E 04	CU. FT.	2.1 ± 0.3	E-02	2.7 ± 1.4	E-03	11/10	LT. 2.	E-02	
11/07	11/14	9.91E 03	CU. FT.	2.9 ± 0.3	E-02	L.T. 2.	E-03	11/19	LT. 3.	E-02	
11/14	11/21	9.83E 03	CU. FT.	3.5 ± 0.4	E-02	L.T. 1.	E-03	11/23	LT. 2.	E-02	
11/21	11/28	1.01E 04	CU. FT.	3.7 ± 0.4	E-02	L.T. 1.	E-03	11/30	LT. 2.	E-02	
11/28	12/05	1.00E 04	CU. FT.	2.6 ± 0.3	E-02	L.T. 1.	E-03	12/07	LT. 2.	E-02	
12/05	12/12	1.01E 04	CU. FT.	2.7 ± 0.4	E-02	L.T. 1.	E-03	12/14	LT. 2.	E-02	
12/12	12/18	8.60E 03	CU. FT.	5.6 ± 0.5	E-02	4.2 ± 1.8	E-03	12/27	LT. 3.	E-02	
12/18	12/26	1.20E 04	CU. FT.	3.2 ± 0.3	E-02	2.5 ± 1.5	E-03	12/29	LT. 2.	E-02	
12/26	01/02	9.45E 03	CU. FT.	4.6 ± 0.4	E-02	2.7 ± 1.6	E-03	01/04	LT. 2.	E-02	

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS**

STATION NUMBER 09

STATION 09 - 7.25 MI. 335 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER	
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131	
DATE	DATE			(PCI/CU. M.)	(PCI/CU. M.)	DATE	TIME	(PCI/CU. M.)			
01/03	01/10	1.03E 04	CU. FT.	3.8 ± 0.4	E-02	1.6 ± 1.1	E-03	01/14	LT. 2.	E-02	
01/10	01/17	9.97E 03	CU. FT.	3.7 ± 0.4	E-02	1.7 ± 1.2	E-03	01/21	LT. 4.	E-02	
01/17	01/24	9.91E 03	CU. FT.	2.6 ± 0.3	E-02	1.8 ± 1.2	E-03	01/26	LT. 2.	E-02	
01/24	01/31	1.03E 04	CU. FT.	3.8 ± 0.4	E-02	2.9 ± 1.3	E-03	02/04	LT. 1.	E-02	
01/31	02/07	9.91E 03	CU. FT.	2.0 ± 0.3	E-02	1.8 ± 1.1	E-03	02/11	LT. 3.	E-02	
02/07	02/14	1.01E 04	CU. FT.	2.1 ± 0.3	E-02	1.5 ± 1.1	E-03	02/19	LT. 2.	E-02	
02/14	02/21	1.03E 04	CU. FT.	2.5 ± 0.3	E-02	1.8 ± 1.1	E-03	02/25	LT. 2.	E-02	
02/21	02/28	9.62E 03	CU. FT.	1.8 ± 0.3	E-02	1.7 ± 1.1	E-03	03/04	LT. 3.	E-02	
02/28	03/07	1.06E 04	CU. FT.	3.2 ± 0.3	E-02	1.9 ± 1.0	E-03	03/12	LT. 3.	E-02	
03/07	03/14	9.75E 03	CU. FT.	2.1 ± 0.3	E-02	LT. 2.	E-03	03/18	LT. 2.	E-02	
03/14	03/21	9.95E 03	CU. FT.	1.5 ± 0.3	E-02	LT. 1.	E-03	03/24	LT. 2.	E-02	
03/21-03/28		9.98E 03	CU. FT.	1.3 ± 0.3	E-02	1.5 ± 1.2	E-03	03/30	LT. 3.	E-02	
03/28	04/04	1.05E 04	CU. FT.	1.9 ± 0.3	E-02	1.5 ± 1.0	E-03	04/09	LT. 2.	E-02	
04/04	04/11	9.94E 03	CU. FT.	2.0 ± 0.3	E-02	1.4 ± 1.0	E-03	04/15	LT. 3.	E-02	
04/11	04/18	9.88E 03	CU. FT.	1.3 ± 0.2	E-02	LT. 1.	E-03	04/22	LT. 3.	E-02	
04/18	04/25	1.02E 04	CU. FT.	1.3 ± 0.3	E-02	1.8 ± 1.4	E-03	05/01	LT. 4.	E-02	
04/25	05/02	9.94E 03	CU. FT.	1.5 ± 0.3	E-02	LT. 2.	E-03	05/10	LT. 5.	E-02	
05/02	05/09	9.90E 03	CU. FT.	1.6 ± 0.3	E-02	1.8 ± 1.1	E-03	05/16	LT. 5.	E-02	
05/09	05/16	1.01E 04	CU. FT.	1.2 ± 0.2	E-02	LT. 1.	E-03	05/19	LT. 4.	E-02	
05/16	05/23	1.01E 04	CU. FT.	1.6 ± 0.3	E-02	1.4 ± 1.0	E-03	05/26	LT. 2.	E-02	
05/23	05/30	1.01E 04	CU. FT.	0.83±0.23	E-02	LT. 0.9	E-03	06/02	LT. 3.	E-02	
05/30	06/06	1.01E 04	CU. FT.	1.3 ± 0.3	E-02	LT. 2.	E-03	06/09	LT. 2.	E-02	
06/06	06/13	1.01E 04	CU. FT.	1.4 ± 0.3	E-02	LT. 1.	E-03	06/18	LT. 3.	E-02	
06/13	06/20	1.03E 04	CU. FT.	2.8 ± 0.3	E-02	3.0 ± 1.5	E-03	06/25	LT. 3.	E-02	
06/20	06/27	9.90E 03	CU. FT.	2.0 ± 0.3	E-02	2.1 ± 1.2	E-03	07/02	LT. 3.	E-02	
06/27	07/05	1.10E 04	CU. FT.	1.2 ± 0.2	E-02	2.8 ± 1.3	E-03	07/12	LT. 4.	E-02	
07/05	07/11	8.77E 03	CU. FT.	2.2 ± 0.3	E-02	1.8 ± 1.4	E-03	07/15	LT. 4.	E-02	
07/11	07/18	1.00E 04	CU. FT.	2.7 ± 0.3	E-02	2.3 ± 1.5	E-03	07/22	LT. 2.	E-02	
07/18	07/25	5.07E 03	CU. FT.	1.8 ± 0.3	E-02	LT. 2.	E-03	07/27	LT. 3.	E-02	
07/25	08/01	*									
08/03	08/08	7.21E 03	CU. FT.	1.8 ± 0.3	E-02	2.8 ± 2.1	E-03	08/10	LT. 2.	E-02	
08/08	08/15	1.01E 04	CU. FT.	2.5 ± 0.3	E-02	3.3 ± 1.6	E-03	08/18	LT. 3.	E-02	

*Sample not collected - not running at collection time.

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 09

STATION 09 - 7.25 MI. 335 DEG. IND.

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)		(PCI/CU.M.)		DATE	TIME	(PCI/CU. M.)		
08/15	08/22	1.07E 04	CU. FT.	1.5 ± 0.3	E-02	2.0 ± 1.3	E-03	08/27		LT.	2.	E-02
08/22	08/29	9.93E 03	CU. FT.	4.1 ± 0.4	E-02	L.T. 2.	E-03	09/01		LT.	3.	E-02
08/29	09/05	1.01E 04	CU. FT.	3.7 ± 0.4	E-02	4.0 ± 1.6	E-03	09/08		LT.	2.	E-02
09/05	09/12	1.00E 04	CU. FT.	2.3 ± 0.3	E-02	2.1 ± 1.3	E-03	09/18		LT.	3.	E-02
09/12	09/19	1.01E 04	CU. FT.	2.7 ± 0.3	E-02	L.T. 2.	E-03	09/22		LT.	2.	E-02
09/19	09/26	1.01E 04	CU. FT.	2.4 ± 0.3	E-02	L.T. 2.	E-03	10/01		LT.	3.	E-02
09/26	10/03	9.97E 03	CU. FT.	3.7 ± 0.4	E-02	2.1 ± 1.4	E-03	10/07		LT.	3.	E-02
10/03	10/10	1.02E 04	CU. FT.	2.2 ± 0.3	E-02	L.T. 1.	E-03	10/13		LT.	2.	E-02
10/10	10/17	1.00E 04	CU. FT.	2.7 ± 0.3	E-02	L.T. 2.	E-03	11/07		LT.	6.	E-02
10/17	10/24	1.01E 04	CU. FT.	1.6 ± 0.3	E-02	L.T. 2.	E-03	10/28		LT.	3.	E-02
10/24	10/31	1.00E 04	CU. FT.	1.5 ± 0.3	E-02	L.T. 2.	E-03	11/04		LT.	3.	E-02
10/31	11/07	1.03E 04	CU. FT.	3.0 ± 0.3	E-02	1.8 ± 1.2	E-03	11/10		LT.	2.	E-02
11/07	11/14	9.91E 03	CU. FT.	3.3 ± 0.4	E-02	L.T. 2.	E-03	11/19		LT.	3.	E-02
11/14	11/21	9.88E 03	CU. FT.	3.7 ± 0.4	E-02	1.6 ± 1.2	E-03	11/23		LT.	2.	E-02
11/21	11/28	1.01E 04	CU. FT.	3.3 ± 0.4	E-02	1.9 ± 1.4	E-03	11/30		LT.	2.	E-02
11/28	12/05	1.00E 04	CU. FT.	2.7 ± 0.4	E-02	2.7 ± 1.5	E-03	12/07		LT.	2.	E-02
12/05	12/12	1.01E 04	CU. FT.	2.2 ± 0.3	E-02	1.6 ± 1.3	E-03	12/14		LT.	2.	E-02
12/12	12/18	8.60E 03	CU. FT.	4.5 ± 0.5	E-02	2.8 ± 1.5	E-03	12/27		LT.	3.	E-02
12/18	12/26	1.12E 04	CU. FT.	1.9 ± 0.3	E-02	2.0 ± 1.4	E-03	12/29		LT.	2.	E-02
12/26	01/02	9.19E 03	CU. FT.	4.3 ± 0.4	E-02	L.T. 2.	E-03	01/04		LT.	2.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 10

STATION 10 - 10.0 MI. 160 DEG. IND

COLL. TIME START STOP DATE DATE		VOLUME	UNITS	AP FILTER GROSS BETA (PCI/CU.M.)		AP FILTER GROSS ALPHA (PCI/CU.M.)		MID-COUNT TIME DATE TIME	CHARCOAL FILTER I-131 (PCI/CU. M.)		
01/03	01/10	1.04E 04	CU. FT.	3.5 ± 0.3	E-02	2.2 ± 1.2	E-03	01/14	LT.	1.	E-02
01/10	01/17	1.01E 04	CU. FT.	3.0 ± 0.3	E-02	LT. 1.	E-03	01/21	LT.	2.	E-02
01/17	01/23	8.62E 03	CU. FT.	2.3 ± 0.3	E-02	LT. 1.	E-03	01/26	LT.	1.	E-02
01/23	01/31	1.15E 04	CU. FT.	4.5 ± 0.4	E-02	3.0 ± 1.3	E-03	02/04	LT.	1.	E-02
01/31	02/07	1.01E 04	CU. FT.	1.9 ± 0.3	E-02	1.1 ± 0.9	E-03	02/11	LT.	2.	E-02
02/07	02/14	1.01E 04	CU. FT.	2.2 ± 0.3	E-02	2.3 ± 1.3	E-03	02/19	LT.	2.	E-02
02/14	02/21	1.01E 04	CU. FT.	2.2 ± 0.3	E-02	1.4 ± 1.0	E-03	02/25	LT.	1.	E-02
02/21	02/28	9.69E 03	CU. FT.	1.3 ± 0.2	E-02	LT. 1.	E-03	03/04	LT.	2.	E-02
02/28	03/07	1.03E 04	CU. FT.	2.6 ± 0.3	E-02	2.1 ± 1.1	E-03	03/12	LT.	2.	E-02
03/07	03/14	1.02E 04	CU. FT.	2.0 ± 0.3	E-02	LT. 2.	E-03	03/18	LT.	1.	E-02
03/14	03/21	9.82E 03	CU. FT.	1.6 ± 0.3	E-02	2.0 ± 1.3	E-03	03/24	LT.	2.	E-02
03/21	03/28	9.79E 03	CU. FT.	1.2 ± 0.3	E-02	1.4 ± 1.2	E-03	03/30	LT.	2.	E-02
03/28	04/04	1.04E 04	CU. FT.	2.0 ± 0.3	E-02	1.7 ± 1.1	E-03	04/09	LT.	2.	E-02
04/04	04/11	1.02E 04	CU. FT.	1.4 ± 0.3	E-02	1.7 ± 1.1	E-03	04/15	LT.	1.	E-02
04/11	04/18	9.88E 03	CU. FT.	1.2 ± 0.2	E-02	LT. 1.	E-03	04/22	LT.	2.	E-02
04/18	04/25	1.02E 04	CU. FT.	1.0 ± 0.2	E-02	LT. 2.	E-03	05/01	LT.	3.	E-02
04/25	05/02	9.25E 03	CU. FT.	1.6 ± 0.3	E-02	LT. 2.	E-03	05/10	LT.	4.	E-02
05/02	05/09	9.90E 03	CU. FT.	1.4 ± 0.3	E-02	LT. .9	E-03	05/16	LT.	3.	E-02
05/09	05/16	1.01E 04	CU. FT.	.97 ± .24	E-02	LT. 1.	E-03	05/19	LT.	2.	E-02
05/16	05/23	1.01E 04	CU. FT.	1.6 ± 0.3	E-02	1.5 ± 1.1	E-03	05/26	LT.	1.	E-02
05/23	05/30	1.00E 04	CU. FT.	0.88±0.23	E-02	LT. 0.9	E-03	06/02	LT.	2.	E-02
05/30	06/06	1.01E 04	CU. FT.	1.8 ± 0.3	E-02	LT. 2.	E-03	06/09	LT.	2.	E-02
06/06	06/13	1.01E 04	CU. FT.	1.3 ± 0.2	E-02	LT. 1.	E-03	06/18	LT.	2.	E-02
06/13	06/20	1.02E 04	CU. FT.	3.1 ± 0.3	E-02	3.0 ± 1.5	E-03	06/25	LT.	2.	E-02
06/20	06/27	1.01E 04	CU. FT.	2.4 ± 0.3	E-02	3.0 ± 1.3	E-03	07/02	LT.	2.	E-02
06/27	07/05	1.11E 04	CU. FT.	1.8 ± 0.3	E-02	LT. 2.	E-03	07/12	LT.	2.	E-02
07/05	07/11	8.95E 03	CU. FT.	2.1 ± 0.3	E-02	2.1 ± 1.5	E-03	07/15	LT.	3.	E-02
07/11	07/18	9.53E 03	CU. FT.	2.6 ± 0.3	E-02	LT. 2.	E-03	07/22	LT.	1.	E-02
07/18	07/25	9.80E 03	CU. FT.	2.3 ± 0.3	E-02	LT. 1.	E-03	07/27	LT.	1.	E-02
07/25	08/01	1.02E 04	CU. FT.	2.4 ± 0.4	E-02	1.2 ± 1.1	E-03	08/05	LT.	3.	E-02
08/01	08/08	9.84E 03	CU. FT.	1.5 ± 0.3	E-02	LT. 2.	E-03	08/10	LT.	1.	E-02
08/08	08/15	1.01E 04	CU. FT.	2.4 ± 0.3	E-02	2.4 ± 1.4	E-03	08/18	LT.	2.	E-02
08/15	08/22	1.07E 04	CU. FT.	2.0 ± 0.3	E-02	2.1 ± 1.3	E-03	08/27	LT.	2.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
AIR PARTICULATE & CHARCOAL FILTERS

STATION NUMBER 10

STATION 10 - 10.0 MI. 160 DEG. IND

COLL. TIME		VOLUME	UNITS	AP FILTER		AP FILTER		MID-COUNT		CHARCOAL FILTER		
START	STOP			GROSS BETA		GROSS ALPHA		TIME		I-131		
DATE	DATE			(PCI/CU.M.)		(PCI/CU.M.)		DATE	TIME	(PCI/CU. M.)		
08/22	08/29	1.00E 04	CU. FT.	4.5 ± 0.4	E-02	2.5 ± 1.7	E-03	09/01		LT.	2.	E-02
08/29	09/05	1.01E 04	CU. FT.	4.3 ± 0.4	E-02	3.2 ± 1.5	E-03	09/08		LT.	1.	E-02
09/05	09/12	1.00E 04	CU. FT.	2.9 ± 0.3	E-02	2.7 ± 1.4	E-03	09/18		LT.	2.	E-02
09/12	09/19	1.01E 04	CU. FT.	2.9 ± 0.3	E-02	1.8 ± 1.1	E-03	09/22		LT.	1.	E-02
09/19	09/26	1.01E 04	CU. FT.	2.6 ± 0.3	E-02	L.T. 2.	E-03	10/01		LT.	2.	E-02
09/26	10/03	9.97E 03	CU. FT.	3.8 ± 0.4	E-02	1.7 ± 1.3	E-03	10/07		LT.	2.	E-02
10/03	10/10	1.02E 04	CU. FT.	2.6 ± 0.3	E-02	1.6 ± 1.2	E-03	10/13		LT.	2.	E-02
10/10	10/17	1.00E 04	CU. FT.	3.5 ± 0.4	E-02	3.3 ± 1.7	E-03	11/05		LT.	5.	E-02
10/17	10/24	1.00E 04	CU. FT.	1.8 ± 0.3	E-02	1.9 ± 1.4	E-03	10/28		LT.	2.	E-02
10/24	10/31	1.00E 04	CU. FT.	1.7 ± 0.3	E-02	L. T. 2.	E-03	11/04		LT.	2.	E-02
10/31	11/07	1.02E 04	CU. FT.	3.1 ± 0.4	E-02	2.3 ± 1.4	E-03	11/10		LT.	2.	E-02
11/07	11/14	9.92E 03	CU. FT.	3.5 ± 0.4	E-02	L.T. 2.	E-03	11/19		LT.	2.	E-02
11/14	11/21	9.78E 03	CU. FT.	3.2 ± 0.4	E-02	1.6 ± 1.2	E-03	11/23		LT.	1.	E-02
11/21	11/28	1.00E 04	CU. FT.	2.8 ± 0.3	E-02	1.8 ± 1.3	E-03	11/30		LT.	1.	E-02
11/28	12/05	1.00E 04	CU. FT.	2.5 ± 0.3	E-02	2.3 ± 1.4	E-03	12/07		LT.	2.	E-02
12/05	12/12	1.01E 04	CU. FT.	2.4 ± 0.3	E-02	2.7 ± 1.5	E-03	12/14		LT.	1.	E-02
12/12	12/18	8.60E 03	CU. FT.	4.7 ± 0.5	E-02	4.2 ± 1.8	E-03	12/27		LT.	2.	E-02
12/18	12/26	1.21E 04	CU. FT.	2.7 ± 0.3	E-02	2.1 ± 1.4	E-03	12/29		LT.	1.	E-02
12/26	01/02	9.59E 03	CU. FT.	4.1 ± 0.4	E-02	L.T. 2.	E-03	01/04		LT.	1.	E-02

D. QUARTERLY COMPOSITES OF AIR PARTICULATE FILTERS
STATIONS 01-10

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PCI/CU. M.)
STATION NUMBER 01
STATION 01 - 0.1 MI. 225 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.08±0.11 E-01	1.74±0.17 E-01	1.51±0.15 E-01	9.15±1.15 E-02
K-40	LT. 9. E-03	LT. 9. E-03	LT. 8. E-03	LT. 1. E-02
MN-54	LT. 6. E-04	LT. 6. E-04	LT. 5. E-04	LT. 5. E-04
CO-58	LT. 8. E-04	LT. 9. E-04	LT. 8. E-04	LT. 8. E-04
FE-59	LT. 3. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
CO-60	LT. 6. E-04	LT. 7. E-04	LT. 5. E-04	LT. 4. E-04
ZN-65	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
ZR-95	LT. 9. E-04	LT. 9. E-04	LT. 1. E-03	LT. 8. E-04
RU-103	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
RU-106	LT. 4. E-03	LT. 5. E-03	LT. 5. E-03	LT. 5. E-03
I-131	LT. 1. E-01	LT. 8. E-02	LT. 1. E-01	LT. 9. E-02
CS-134	LT. 5. E-04	LT. 7. E-04	LT. 5. E-04	LT. 6. E-04
CS-137	LT. 7. E-04	LT. 6. E-04	LT. 6. E-04	LT. 6. E-04
BA-140	LT. 2. E-02	LT. 2. E-02	LT. 2. E-02	LT. 1. E-02
CE-141	LT. 2. E-03	LT. 3. E-03	LT. 2. E-03	LT. 2. E-03
CE-144	LT. 3. E-03	LT. 3. E-03	LT. 3. E-03	LT. 3. E-03
RA-226	LT. 9. E-03	LT. 1. E-02	LT. 9. E-03	LT. 9. E-03
TH-228	LT. 9. E-04	LT. 1. E-03	LT. 8. E-04	LT. 1. E-03

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PC1/CU. M.)
STATION NUMBER 02
STATION 02 - 0.75 MI. 225 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.01±0.10 E-01	1.81±0.18 E-01	1.60±0.16 E-01	8.79±0.92 E-02
K-40	L.T. 9. E-03	L.T. 1. E-02	L.T. 1. E-02	L.T. 1. E-02
MN-54	L.T. 5. E-04	L.T. 5. E-04	L.T. 5. E-04	L.T. 5. E-04
CO-58	L.T. 7. E-04	L.T. 9. E-04	L.T. 8. E-04	L.T. 9. E-04
FE-59	L.T. 3. E-03	L.T. 2. E-03	L.T. 3. E-03	L.T. 2. E-03
CO-60	L.T. 5. E-04	L.T. 4. E-04	L.T. 4. E-04	L.T. 6. E-04
ZN-65	L.T. 1. E-03	L.T. 1. E-03	L.T. 1. E-03	L.T. 1. E-03
ZR-95	L.T. 8. E-04	L.T. 9. E-04	L.T. 9. E-04	L.T. 8. E-04
RU-103	L.T. 1. E-03	L.T. 1. E-03	L.T. 1. E-03	L.T. 1. E-03
RU-106	L.T. 4. E-03	L.T. 4. E-03	L.T. 5. E-03	L.T. 5. E-03
I-131	L.T. 1. E-01	L.T. 8. E-02	L.T. 1. E-01	L.T. 8. E-02
CS-134	L.T. 4. E-04	L.T. 5. E-04	L.T. 5. E-04	L.T. 5. E-04
CS-137	L.T. 6. E-04	L.T. 5. E-04	L.T. 5. E-04	L.T. 5. E-04
BA-140	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02
CE-141	L.T. 2. E-03	L.T. 2. E-03	L.T. 2. E-03	L.T. 2. E-03
CE-144	L.T. 3. E-03	L.T. 3. E-03	L.T. 2. E-03	L.T. 2. E-03
RA-226	L.T. 7. E-03	L.T. 9. E-03	L.T. 6. E-03	L.T. 6. E-03
TH-228	L.T. 7. E-04	L.T. 9. E-04	L.T. 6. E-04	L.T. 7. E-04

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PC1/CU. M.)
STATION NUMBER 03
STATION 03 - 2.5 MI. 338 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.10±0.16 E-01	1.58±0.16 E-01	1.35±0.14 E-01	9.16±1.01 E-02
K-40	L.T. 2. E-02	9.31±5.40 E-03	L.T. 2. E-02	L.T. 2. E-02
MN-54	L.T. 1. E-03	L.T. 7. E-04	L.T. 5. E-04	L.T. 6. E-04
CO-58	L.T. 1. E-03	L.T. 1. E-03	L.T. 8. E-04	L.T. 8. E-04
FE-59	L.T. 4. E-03	L.T. 3. E-03	L.T. 3. E-03	L.T. 3. E-03
CO-60	L.T. 9. E-04	L.T. 7. E-04	L.T. 6. E-04	L.T. 6. E-04
ZN-65	L.T. 2. E-03	L.T. 2. E-03	L.T. 1. E-03	L.T. 1. E-03
ZR-95	L.T. 2. E-03	L.T. 1. E-03	L.T. 9. E-04	L.T. 1. E-03
RU-103	L.T. 3. E-03	L.T. 2. E-03	L.T. 1. E-03	L.T. 1. E-03
RU-106	L.T. 9. E-03	L.T. 7. E-03	L.T. 5. E-03	L.T. 5. E-03
I-131	L.T. 2. E-01	L.T. 9. E-02	L.T. 1. E-01	L.T. 9. E-02
CS-134	L.T. 9. E-04	L.T. 7. E-04	L.T. 6. E-04	L.T. 6. E-04
CS-137	L.T. 9. E-04	L.T. 6. E-04	L.T. 6. E-04	L.T. 6. E-04
BA-140	L.T. 3. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
CE-141	L.T. 4. E-03	L.T. 2. E-03	L.T. 2. E-03	L.T. 2. E-03
CE-144	L.T. 6. E-03	L.T. 3. E-03	L.T. 3. E-03	L.T. 3. E-03
RA-226	L.T. 1. E-02	L.T. 9. E-03	L.T. 8. E-03	L.T. 8. E-03
TH-228	L.T. 1. E-03	L.T. 8. E-04	L.T. 7. E-04	L.T. 7. E-04

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PCI/CU. M.)
STATION NUMBER 04
STATION 04 - 3.0 MI. 43 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.50±0.15 E-01	1.61±0.16 E-01	2.20±0.22 E-01	9.42±1.06 E-02
K-40	L.T. 1. E-02	L.T. 2. E-02	L.T. 6. E-03	L.T. 7. E-03
MN-54	L.T. 6. E-04	L.T. 6. E-04	L.T. 4. E-04	L.T. 4. E-04
CO-58	L.T. 1. E-03	L.T. 1. E-03	L.T. 6. E-04	L.T. 6. E-04
FE-59	L.T. 3. E-03	L.T. 3. E-03	L.T. 2. E-03	L.T. 2. E-03
CO-60	L.T. 5. E-04	L.T. 6. E-04	L.T. 5. E-04	L.T. 5. E-04
ZN-65	L.T. 1. E-03	L.T. 1. E-03	L.T. 1. E-03	L.T. 1. E-03
ZR-95	L.T. 1. E-03	L.T. 9. E-04	L.T. 6. E-04	L.T. 7. E-04
RU-103	L.T. 2. E-03	L.T. 1. E-03	L.T. 1. E-03	L.T. 1. E-03
RU-106	L.T. 6. E-03	L.T. 5. E-03	L.T. 3. E-03	L.T. 4. E-03
I-131	L.T. 1. E-01	L.T. 8. E-02	L.T. 9. E-02	L.T. 7. E-02
CS-134	L.T. 6. E-04	L.T. 7. E-04	L.T. 4. E-04	L.T. 5. E-04
CS-137	L.T. 6. E-04	L.T. 6. E-04	L.T. 4. E-04	L.T. 3. E-04
BA-140	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
CE-141	L.T. 3. E-03	L.T. 2. E-03	L.T. 2. E-03	L.T. 2. E-03
CE-144	L.T. 4. E-03	L.T. 3. E-03	L.T. 2. E-03	L.T. 3. E-03
RA-226	L.T. 1. E-02	L.T. 9. E-03	L.T. 7. E-03	L.T. 8. E-03
TH-228	L.T. 1. E-03	L.T. 8. E-04	L.T. 7. E-04	L.T. 7. E-04

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PCI/CU. M.)
STATION NUMBER 05
STATION 05 - 3.5 MI. 102 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.52±0.15 E-01	1.72±0.17 E-01	1.71±0.17 E-01	8.89±0.91 E-02
K-40	3.08±0.64 E-02	LT. 7. E-03	LT. 1. E-02	3.82±0.55 E-02
MN-54	LT. 7. E-04	LT. 4. E-04	LT. 5. E-04	LT. 5. E-04
CO-58	LT. 1. E-03	LT. 6. E-04	LT. 7. E-04	LT. 7. E-04
FE-59	LT. 3. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
CO-60	LT. 6. E-04	LT. 5. E-04	LT. 5. E-04	LT. 5. E-04
ZN-65	LT. 2. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
ZR-95	LT. 1. E-03	LT. 6. E-04	LT. 7. E-04	LT. 8. E-04
RU-103	LT. 2. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
RU-106	LT. 6. E-03	LT. 4. E-03	LT. 4. E-03	LT. 4. E-03
I-131	LT. 1. E-01	LT. 7. E-02	LT. 1. E-01	LT. 7. E-02
CS-134	LT. 7. E-04	LT. 5. E-04	LT. 4. E-04	LT. 5. E-04
CS-137	LT. 6. E-04	LT. 4. E-04	LT. 4. E-04	LT. 5. E-04
BA-140	LT. 2. E-02	LT. 1. E-02	LT. 1. E-02	LT. 1. E-02
CE-141	LT. 3. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
CE-144	LT. 3. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
RA-226	LT. 9. E-03	LT. 8. E-03	LT. 6. E-03	LT. 6. E-03
TH-228	LT. 9. E-04	LT. 7. E-04	LT. 6. E-04	LT. 6. E-04

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PCI/CU. M.)
STATION NUMBER 06
STATION 06 - 3.0 MI. 165 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.23±0.14 E-01	1.32±0.13 E-01	1.68±0.17 E-01	1.22±0.13 E-01
K-40	LT. 1. E-02	4.64±0.62 E-02	LT. 9. E-03	LT. 1. E-02
MN-54	LT. 6. E-04	LT. 5. E-04	LT. 5. E-04	LT. 5. E-04
CO-58	LT. 1. E-03	LT. 8. E-04	LT. 7. E-04	LT. 7. E-04
FE-59	LT. 4. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
CO-60	LT. 5. E-04	LT. 5. E-04	LT. 6. E-04	LT. 5. E-04
ZN-65	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
ZR-95	LT. 1. E-03	LT. 9. E-04	LT. 7. E-04	LT. 8. E-04
RU-103	LT. 2. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
RU-106	LT. 6. E-03	LT. 4. E-03	LT. 4. E-03	LT. 4. E-03
I-131	LT. 1. E-01	LT. 6. E-02	LT. 1. E-01	LT. 9. E-02
CS-134	LT. 5. E-04	LT. 5. E-04	LT. 5. E-04	LT. 6. E-04
CS-137	LT. 6. E-04	LT. 5. E-04	LT. 5. E-04	LT. 5. E-04
BA-140	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 1. E-02
CE-141	LT. 3. E-03	LT. 2. E-03	LT. 2. E-03	LT. 3. E-03
CE-144	LT. 4. E-03	LT. 2. E-03	LT. 3. E-03	LT. 4. E-03
RA-226	LT. 1. E-02	LT. 7. E-03	LT. 9. E-03	LT. 1. E-02
TH-228	LT. 1. E-03	LT. 6. E-04	LT. 9. E-04	LT. 9. E-04

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PCI/CU. M.)
STATION NUMBER 07
STATION 07 - 2.5 MI. 230 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.03±0.12 E-01	1.84±0.18 E-01	1.41±0.14 E-01	8.94±1.00 E-02
K-40	LT. 8. E-03	LT. 9. E-03	LT. 2. E-02	7.67±3.95 E-03
MN-54	LT. 5. E-04	LT. 5. E-04	LT. 7. E-04	LT. 5. E-04
CO-58	LT. 7. E-04	LT. 8. E-04	LT. 1. E-03	LT. 7. E-04
FE-59	LT. 3. E-03	LT. 2. E-03	LT. 3. E-03	LT. 2. E-03
CO-60	LT. 6. E-04	LT. 6. E-04	LT. 5. E-04	LT. 5. E-04
ZN-65	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
ZR-95	LT. 9. E-04	LT. 8. E-04	LT. 1. E-03	LT. 7. E-04
RU-103	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
RU-106	LT. 5. E-03	LT. 5. E-03	LT. 6. E-03	LT. 4. E-03
I-131	LT. 1. E-01	LT. 7. E-02	LT. 1. E-01	LT. 7. E-02
CS-134	LT. 6. E-04	LT. 5. E-04	LT. 6. E-04	LT. 5. E-04
CS-137	LT. 6. E-04	LT. 5. E-04	LT. 6. E-04	LT. 4. E-04
BA-140	LT. 2. E-02	LT. 2. E-02	LT. 2. E-02	LT. 1. E-02
CE-141	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
CE-144	LT. 3. E-03	LT. 3. E-03	LT. 3. E-03	LT. 3. E-03
RA-226	LT. 9. E-03	LT. 1. E-02	LT. 9. E-03	LT. 8. E-03
TH-228	LT. 9. E-04	LT. 9. E-04	LT. 9. E-04	LT. 7. E-04

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PCI/CU. M.)
STATION NUMBER 08
STATION 08 - 2.5 MI. 260 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.03±0.11 E-01	1.85±0.18 E-01	1.86±0.19 E-01	1.01±0.13 E-01
K-40	LT. 7. E-03	1.43±0.47 E-02	LT. 1. E-02	LT. 1. E-02
MN-54	LT. 5. E-04	LT. 4. E-04	LT. 5. E-04	LT. 6. E-04
CO-58	LT. 7. E-04	LT. 8. E-04	LT. 8. E-04	LT. 9. E-04
FE-59	LT. 3. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
CO-60	LT. 5. E-04	LT. 6. E-04	LT. 5. E-04	LT. 5. E-04
ZN-65	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
ZR-95	LT. 8. E-04	LT. 9. E-04	LT. 9. E-04	LT. 1. E-03
RU-103	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03	LT. 2. E-03
RU-106	LT. 4. E-03	LT. 4. E-03	LT. 4. E-03	LT. 6. E-03
I-131	LT. 8. E-02	LT. 8. E-02	LT. 1. E-01	LT. 1. E-01
CS-134	LT. 5. E-04	LT. 5. E-04	LT. 5. E-04	LT. 6. E-04
CS-137	LT. 4. E-04	LT. 5. E-04	LT. 5. E-04	LT. 6. E-04
BA-140	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 2. E-02
CE-141	LT. 1. E-03	LT. 2. E-03	LT. 3. E-03	LT. 3. E-03
CE-144	LT. 2. E-03	LT. 3. E-03	LT. 3. E-03	LT. 5. E-03
RA-226	LT. 6. E-03	LT. 1. E-02	LT. 9. E-03	LT. 1. E-02
TH-228	LT. 6. E-04	LT. 9. E-04	LT. 9. E-04	LT. 1. E-03

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PCI/CU. M.)
STATION NUMBER 09
STATION 09 - 7.25 MI. 335 DEG. IND

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	9.44±0.94 E-02	1.34±0.13 E-01	1.41±0.14 E-01	8.68±0.97 E-02
K-40	LT. 7. E-03	4.95±0.72 E-02	4.89±0.76 E-02	LT. 2. E-02
MN-54	LT. 4. E-04	LT. 6. E-04	LT. 7. E-04	LT. 5. E-04
CO-58	LT. 6. E-04	LT. 8. E-04	LT. 1. E-03	LT. 9. E-04
FE-59	LT. 1. E-03	LT. 3. E-03	LT. 3. E-03	LT. 3. E-03
CO-60	LT. 4. E-04	LT. 6. E-04	LT. 6. E-04	LT. 6. E-04
ZN-65	LT. 1. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
ZR-95	LT. 8. E-04	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
RU-103	LT. 1. E-03	LT. 1. E-03	LT. 2. E-03	LT. 1. E-03
RU-106	LT. 3. E-03	LT. 5. E-03	LT. 5. E-03	LT. 6. E-03
I-131	LT. 8. E-02	LT. 7. E-02	LT. 1. E-01	LT. 9. E-02
CS-134	LT. 4. E-04	LT. 6. E-04	LT. 7. E-04	LT. 7. E-04
CS-137	LT. 4. E-04	LT. 6. E-04	LT. 6. E-04	LT. 7. E-04
BA-140	LT. 1. E-02	LT. 1. E-02	LT. 2. E-02	LT. 1. E-02
CE-141	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
CE-144	LT. 3. E-03	LT. 3. E-03	LT. 3. E-03	LT. 2. E-03
RA-226	LT. 6. E-03	LT. 8. E-03	LT. 9. E-03	LT. 9. E-03
TH-228	LT. 6. E-04	LT. 8. E-04	LT. 9. E-04	LT. 8. E-04

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AIRBORNE
COMPOSITE AIR PARTICULATE FILTERS
(PCI/CU. M.)
STATION NUMBER 10
STATION 10 - 10.0 MI. 160 DEG. IND.

DATE COLLECTED:	01/03-03/28	03/28-06/27	06/27-10/03	10/03-01/02
GAMMA SPECTRUM ANALYSIS:				
BE-7	1.09±0.11 E-01	1.83±0.18 E-01	1.62±0.16 E-01	9.47±0.95 E-02
K-40	LT. 2. E-02	1.06±0.47 E-02	LT. 7. E-03	LT. 8. E-03
MN-54	LT. 7. E-04	LT. 5. E-04	LT. 6. E-04	LT. 5. E-04
CO-58	LT. 1. E-03	LT. 7. E-04	LT. 8. E-04	LT. 7. E-04
FE-59	LT. 3. E-03	LT. 2. E-03	LT. 2. E-03	LT. 2. E-03
CO-60	LT. 6. E-04	LT. 4. E-04	LT. 5. E-04	LT. 5. E-04
ZN-65	LT. 2. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
ZR-95	LT. 1. E-03	LT. 8. E-04	LT. 8. E-04	LT. 8. E-04
RU-103	LT. 2. E-03	LT. 1. E-03	LT. 1. E-03	LT. 1. E-03
RU-106	LT. 6. E-03	LT. 5. E-03	LT. 4. E-03	LT. 4. E-03
I-131	LT. 1. E-01	LT. 7. E-02	LT. 1. E-01	LT. 7. E-02
CS-134	LT. 6. E-04	LT. 4. E-04	LT. 5. E-04	LT. 5. E-04
CS-137	LT. 6. E-04	LT. 5. E-04	LT. 5. E-04	LT. 6. E-04
BA-140	LT. 2. E-02	LT. 8. E-03	LT. 1. E-02	LT. 1. E-02
CE-141	LT. 2. E-03	LT. 2. E-03	LT. 3. E-03	LT. 2. E-03
CE-144	LT. 3. E-03	LT. 4. E-03	LT. 3. E-03	LT. 3. E-03
RA-226	LT. 8. E-03	LT. 9. E-03	LT. 9. E-03	LT. 8. E-03
TH-228	LT. 8. E-04	LT. 9. E-04	LT. 1. E-03	LT. 8. E-04

E. FISH

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
FISH
(PCI/GM WET)
STATION NUMBER 28
STATION 28 - 1.8 MI. 150 DEG. IND

DATE COLLECTED:	07/25 FISH-CATFISH	07/25 FISH-CARP	07/25 FISH-CARP QA	10/11 CARP	10/12 CATFISH
RADIOCHEMICAL ANALYSIS:					
GR-B	5.2 ± 0.2 E 00	5.0 ± 0.2 E 00	4.8 ± 0.2 E 00	4.6 ± 0.2 E 00	4.9 ± 0.2 E 00
SR-89	L.T. 3. E-03	L.T. 3. E-03	L.T. 5. E-03	L.T. 7. E-03	L.T. 1. E-02
SR-90	L.T. 2. E-03	L.T. 1. E-03	L.T. 1. E-03	L.T. 6. E-03	L.T. 4. E-03
GAMMA SPECTRUM ANALYSIS:					
BE-7	L.T. 2. E-01	L.T. 1. E-01	L.T. 1. E-01	L.T. 2. E-01	L.T. 1. E-01
K-40	3.33±0.33 E 00	3.08±0.31 E 00	4.18±0.42 E 00	2.98±0.30 E 00	3.12±0.31 E 00
MN-54	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
CO-58	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
FE-59	L.T. 4. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02	L.T. 3. E-02
CO-60	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
ZN-65	L.T. 4. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02	L.T. 3. E-02
ZR-95	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
RU-103	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
RU-106	L.T. 1. E-01	L.T. 1. E-01	L.T. 1. E-01	L.T. 1. E-01	L.T. 1. E-01
I-131	L.T. 5. E-02	L.T. 3. E-02	L.T. 5. E-02	L.T. 5. E-02	L.T. 4. E-02
CS-134	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
CS-137	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
BA-140	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02
CE-141	L.T. 3. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 3. E-02	L.T. 3. E-02
CE-144	L.T. 1. E-01	L.T. 5. E-02	L.T. 8. E-02	L.T. 1. E-01	L.T. 1. E-01
RA-226	L.T. 3. E-01	L.T. 2. E-01	L.T. 3. E-01	L.T. 3. E-01	L.T. 3. E-01
TH-228	L.T. 3. E-02	L.T. 2. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
FISH
(PCI/GM WET)
STATION NUMBER 35
STATION 35 - 2.0 MI. 350 DEG. CON.

DATE COLLECTED:	07/25 FISH-CATFISH	07/25 FISH-CARP	10/12 CARP	10/12 QA CARP
RADIOCHEMICAL ANALYSIS:				
GR-B	4.6 ± 0.1 E 00	4.6 ± 0.2 E 00	5.1 ± 0.2 E 00	4.5 ± 0.2 E 00
SR-89	L.T. 4. E-03	L.T. 3. E-03	L.T. 7. E-03	L.T. 7. E-03
SR-90	L.T. 1. E-03	L.T. 1. E-03	L.T. 6. E-03	8.5 ± 2.5 E-03
GAMMA SPECTRUM ANALYSIS:				
BE-7	L.T. 1. E-01	L.T. 1. E-01	L.T. 2. E-01	L.T. 2. E-01
K-40	2.88±0.29 E 00	2.90±0.29 E 00	2.15±0.22 E 00	3.09±0.31 E 00
MN-54	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
CO-58	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
FE-59	L.T. 2. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02
CO-60	L.T. 1. E-02	L.T. 1. E-02	L.T. 1. E-02	L.T. 2. E-02
ZN-65	L.T. 2. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02
ZR-95	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
RU-103	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
RU-106	L.T. 1. E-01	L.T. 1. E-01	L.T. 1. E-01	L.T. 2. E-01
I-131	L.T. 3. E-02	L.T. 5. E-02	L.T. 5. E-02	L.T. 4. E-02
CS-134	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
CS-137	L.T. 1. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
BA-140	L.T. 2. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 3. E-02
CE-141	L.T. 2. E-02	L.T. 2. E-02	L.T. 3. E-02	L.T. 3. E-02
CE-144	L.T. 8. E-02	L.T. 8. E-02	L.T. 9. E-02	L.T. 1. E-01
RA-226	L.T. 2. E-01	L.T. 3. E-01	L.T. 3. E-01	L.T. 3. E-01
TH-228	L.T. 2. E-02	L.T. 2. E-02	L.T. 3. E-02	L.T. 3. E-02

F. MILK - NEAREST PRODUCERS

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK NEAREST PRODUCER
(PCI/LITER)
STATION NUMBER 99
STATION 99 - 10.25 MI. 189 DEG. IND.

DATE COLLECTED:	01/03	02/07	03/07	03/07 QA	04/04
RADIOCHEMICAL ANALYSIS:					
SR-89	L.T. 8. E-01	L.T. 7. E-01	L.T. 6. E-01	L.T. 5. E-01	L.T. 7. E-01
SR-90	7.3 ± 1.5 E-01	1.2 ± 0.2 E 00	1.2 ± 0.2 E 00	1.2 ± 0.2 E 00	2.0 ± 0.2 E 00
I-131	L.T. 1. E-01	L.T. 3. E-01	L.T. 2. E-01	L.T. 2. E-01	L.T. 2. E-01
CA (gm/liter)	2.1 ± 0.2 E 00	1.8 ± 0.2 E 00	1.8 ± 0.2 E 00	1.7 ± 0.2 E 00	1.8 ± 0.2 E 00
GAMMA SPECTRUM ANALYSIS:					
BE-7	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 4. E 01	L.T. 3. E 01
K-40	1.35±0.13 E 03	1.35±0.14 E 03	1.47±0.15 E 03	1.37±0.14 E 03	1.27±0.13E 03
MN-54	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00
CO-58	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00
FE-59	L.T. 9. E 00	L.T. 8. E 00	L.T. 8. E 00	L.T. 1. E 01	L.T. 7. E 00
CO-60	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 5. E 00	L.T. 4. E 00
ZN-65	L.T. 9. E 00	L.T. 8. E 00	L.T. 8. E 00	L.T. 1. E 01	L.T. 8. E 00
ZR-95	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 5. E 00	L.T. 4. E 00
RU-103	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 5. E 00	L.T. 4. E 00
RU-106	L.T. 4. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 4. E 01	L.T. 3. E 01
I-131	L.T. 7. E 00	L.T. 4. E 00	L.T. 6. E 00	L.T. 8. E 00	L.T. 5. E 00
CS-134	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 5. E 00	L.T. 4. E 00
CS-137	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 5. E 00	L.T. 4. E 00
BA-140	L.T. 6. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 6. E 00	L.T. 4. E 00
CE-141	L.T. 8. E 00	L.T. 6. E 00	L.T. 6. E 00	L.T. 9. E 00	L.T. 6. E 00
CE-144	L.T. 3. E 01	L.T. 3. E 01	L.T. 2. E 01	L.T. 4. E 01	L.T. 3. E 01
RA-226	L.T. 9. E 01	L.T. 8. E 01	L.T. 7. E 01	L.T. 1. E 02	L.T. 8. E 01
TH-228	L.T. 7. E 00	L.T. 7. E 00	L.T. 6. E 00	L.T. 1. E 01	L.T. 7. E 00

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK NEAREST PRODUCER
(PCI/LITER)
STATION NUMBER 99
STATION 99 - 10.25 MI. 189 DEG. IND.

DATE COLLECTED:	05/02	06/06	06/06 QA	06/06-06/20	06/20
RADIOCHEMICAL ANALYSIS:					
SR-89	LT. 6. E-01			LT. 8. E-01	
SR-90	1.1 ± 0.2 E 00			1.0 ± 0.1 E 00	
I-131	LT. 3. E-01	LT. 2. E-01	LT. 1. E-01		LT. 3. E-01
CA (gm/liter)	1.7 ± 0.2 E 00			1.8 ± 0.2 E 00	
GAMMA SPECTRUM ANALYSIS:					
BE-7	LT. 3. E 01	LT. 3. E 01	LT. 4. E 01		LT. 4. E 01
K-40	1.35±0.13 E 03	1.38±0.14 E 03	1.38±0.14 E 03		1.34±0.13 E 03
MN-54	LT. 3. E 00	LT. 4. E 00	LT. 4. E 00		LT. 4. E 00
CO-58	LT. 4. E 00	LT. 4. E 00	LT. 4. E 00		LT. 4. E 00
FE-59	LT. 8. E 00	LT. 9. E 00	LT. 9. E 00		LT. 9. E 00
CO-60	LT. 4. E 00	LT. 4. E 00	LT. 4. E 00		LT. 4. E 00
ZN-65	LT. 7. E 00	LT. 9. E 00	LT. 1. E 01		LT. 9. E 00
ZR-95	LT. 4. E 00	LT. 4. E 00	LT. 4. E 00		LT. 4. E 00
RU-103	LT. 4. E 00	LT. 4. E 00	LT. 4. E 00		LT. 4. E 00
RU-106	LT. 3. E 01	LT. 3. E 01	LT. 3. E 01		LT. 4. E 01
I-131	LT. 8. E 00	LT. 7. E 00	LT. 7. E 00		LT. 9. E 00
CS-134	LT. 4. E 00	LT. 4. E 00	LT. 5. E 00		LT. 4. E 00
CS-137	LT. 4. E 00	LT. 4. E 00	LT. 5. E 00		LT. 5. E 00
BA-140	LT. 5. E 00	LT. 5. E 00	LT. 6. E 00		LT. 6. E 00
CE-141	LT. 6. E 00	LT. 8. E 00	LT. 9. E 00		LT. 7. E 00
CE-144	LT. 2. E 01	LT. 3. E 01	LT. 4. E 01		LT. 3. E 01
RA-226	LT. 7. E 01	LT. 9. E 01	LT. 1. E 02		LT. 8. E 01
TH-228	LT. 6. E 00	LT. 7. E 00	LT. 9. E 00		LT. 8. E 00

NEBRASKA PUBLIC POWER DISTRICT
 COOPER NUCLEAR STATION
 EXPOSURE PATHWAY INGESTION
 MILK NEAREST PRODUCER
 (PCI/LITER)
 STATION NUMBER 99
 STATION 99 - 10.25 MI. 189 DEG. IND.

DATE COLLECTED: 07/05 07/05 QA

RADIOCHEMICAL ANALYSIS:

SR-89	LT. 9.	E-01		
SR-90	1.8 ± 0.2	E 00		
I-131	LT. 2.	E-01	LT. 2.	E-01
CA (gm/liter)	1.8 ± 0.2	E 00		

GAMMA SPECTRUM ANALYSIS:

BE-7	LT. 3.	E 01	LT. 3.	E 01
K-40	1.41±0.14	E 03	1.41±0.14	E 03
MN-54	LT. 4.	E 00	LT. 3.	E 00
CO-58	LT. 4.	E 00	LT. 3.	E 00
FE-59	LT. 9.	E 00	LT. 7.	E 00
CO-60	LT. 4.	E 00	LT. 4.	E 00
ZN-65	LT. 9.	E 00	LT. 8.	E 00
ZR-95	LT. 4.	E 00	LT. 3.	E 00
RU-103	LT. 4.	E 00	LT. 4.	E 00
RU-106	LT. 4.	E 01	LT. 3.	E 01
I-131	LT. 7.	E 00	LT. 6.	E 00
CS-134	LT. 4.	E 00	LT. 3.	E 00
CS-137	LT. 4.	E 00	LT. 5.	E 00
BA-140	LT. 6.	E 00	LT. 6.	E 00
CE-141	LT. 6.	E 00	LT. 6.	E 00
CE-144	LT. 2.	E 01	LT. 2.	E 01
RA-226	LT. 7.	E 01	LT. 7.	E 01
TH-228	LT. 6.	E 00	LT. 6.	E 00

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK NEAREST PRODUCER
(PCI/LITER)
STATION NUMBER 61
STATION 61 - 3.5 MI. 326 DEG. IND.

DATE COLLECTED:	07/19	08/01	08/01 QA	08/01-08/29	08/15
RADIOCHEMICAL ANALYSIS:					
SR-89	LT. 8. E-01			LT. 1. E00	
SR-90	1.6 ± 0.2 E 00			1.4 ± 0.2 E 00	
I-131	LT. 1. E-01	LT. 2. E-01	LT. 2. E-01		LT. 3. E-01
CA	1.8 ± 0.2 E 00			1.8 ± 0.2 E 00	
GAMMA SPECTRUM ANALYSIS:					
BE-7	LT. 3. E 01	LT. 3. E 01	LT. 4. E 01		LT. 3. E 01
K-40	1.18±0.12 E 03	1.24±0.12 E 03	1.28±0.13 E 03		1.06±0.11E 03
MN-54	LT. 3. E 00	LT. 3. E 00	LT. 4. E 00		LT. 4. E 00
CO-58	LT. 3. E 00	LT. 3. E 00	LT. 4. E 00		LT. 3. E 00
FE-59	LT. 8. E 00	LT. 8. E 00	LT. 9. E 00		LT. 9. E 00
CO-60	LT. 4. E 00	LT. 4. E 00	LT. 5. E 00		LT. 4. E 00
ZN-65	LT. 9. E 00	LT. 9. E 00	LT. 1. E 01		LT. 9. E 00
ZR-95	LT. 3. E 00	LT. 4. E 00	LT. 4. E 00		LT. 3. E 00
RU-103	LT. 4. E 00	LT. 4. E 00	LT. 4. E 00		LT. 4. E 00
RU-106	LT. 3. E 01	LT. 3. E 01	LT. 4. E 01		LT. 3. E 01
I-131	LT. 7. E 00	LT. 7. E 00	LT. 8. E 00		LT. 4. E 00
CS-134	LT. 4. E 00	LT. 4. E 00	LT. 4. E 00		LT. 4. E 00
CS-137	LT. 4. E 00	LT. 4. E 00	LT. 4. E 00		LT. 4. E 00
BA-140	LT. 6. E 00	LT. 5. E 00	LT. 6. E 00		LT. 4. E 00
CE-141	LT. 7. E 00	LT. 6. E 00	LT. 7. E 00		LT. 7. E 00
CE-144	LT. 3. E 01	LT. 2. E 01	LT. 3. E 01		LT. 3. E 01
RA-226	LT. 8. E 01	LT. 7. E 01	LT. 8. E 01		LT. 9. E 01
TH-228	LT. 6. E 00	LT. 6. E 00	LT. 8. E 00		LT. 7. E 00

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK NEAREST PRODUCER
(PCI/LITER)
STATION NUMBER 61
STATION 61 - 3.5 MI. 326 DEG. IND.

DATE COLLECTED:	08/15 QA	08/29	09/05	09/05 QA	09/05-09/19
RADIOCHEMICAL ANALYSIS:					
SR-89					L.T. 7. E-01
SR-90					1.0 ± 0.2 E 00
I-131					1.7 ± 0.2 E 00
CA	L.T. 3. E-01	L.T. 2. E-01	L.T. 2. E-01	L.T. 2. E-01	
GAMMA SPECTRUM ANALYSIS:					
BE-7	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	
K-40	1.36±0.14E 03	1.14±0.11 E 03	1.23±0.12 E 03	1.28±0.13E 03	
MN-54	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	
CO-58	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	
FE-59	L.T. 8. E 00	L.T. 8. E 00	L.T. 9. E 00	L.T. 9. E 00	
CO-60	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	
ZN-65	L.T. 9. E 00	L.T. 8. E 00	L.T. 1. E 01	L.T. 9. E 00	
ZR-95	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	
RU-103	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	
RU-106	L.T. 3. E 01	L.T. 3. E 01	L.T. 4. E 01	L.T. 4. E 01	
I-131	L.T. 5. E 00	L.T. 5. E 00	L.T. 7. E 00	L.T. 7. E 00	
CS-134	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	
CS-137	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	
BA-140	L.T. 4. E 00	L.T. 5. E 00	L.T. 5. E 00	L.T. 6. E 00	
CE-141	L.T. 8. E 00	L.T. 8. E 00	L.T. 9. E 00	L.T. 6. E 00	
CE-144	L.T. 4. E 01	L.T. 3. E 01	L.T. 4. E 01	L.T. 2. E 01	
RA-226	L.T. 1. E 02	L.T. 9. E 01	L.T. 1. E 02	L.T. 7. E 01	
TH-228	L.T. 8. E 00	L.T. 8. E 00	L.T. 8. E 00	L.T. 6. E 00	

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK NEAREST PRODUCER
(PCI/LITER)
STATION NUMBER 61
STATION 61 - 3.5 MI. 326 DEG. IND.

DATE COLLECTED:	09/19	10/03	10/03 QA	11/07	11/07 QA
RADIOCHEMICAL ANALYSIS:					
SR-89		L.T. 2. E 00	L.T. 1. E 00	L.T. 6. E-01	L.T. 9. E-01
SR-90		1.0 ± 0.3 E 00	9.2 ± 1.6 E-01	9.1 ± 1.5 E-01	9.1 ± 1.8 E-01
I-131	L.T. 2. E-01	L.T. 4. E-01	L.T. 3. E-01	L.T. 3. E-01	L.T. 1. E-01
CA		1.9 ± 0.2 E 00	1.8 ± 0.2 E 00	1.7 ± 0.2 E 00	1.7 ± 0.2 E 00
GAMMA SPECTRUM ANALYSIS:					
BE-7	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
K-40	1.51±0.15 E 03	1.21±0.12 E 03	1.25±0.13 E 03	1.28±0.13 E 03	1.34±0.13 E 03
MN-54	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
CO-58	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
FE-59	L.T. 7. E 00	L.T. 8. E 00	L.T. 8. E 00	L.T. 7. E 00	L.T. 9. E 00
CO-60	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
ZN-65	L.T. 8. E 00	L.T. 8. E 00	L.T. 9. E 00	L.T. 7. E 00	L.T. 1. E 01
ZR-95	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
RU-103	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
RU-106	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
I-131	L.T. 4. E 00	L.T. 5. E 00	L.T. 5. E 00	L.T. 4. E 00	L.T. 5. E 00
CS-134	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
CS-137	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
BA-140	L.T. 3. E 00	L.T. 4. E 00	L.T. 5. E 00	L.T. 3. E 00	L.T. 4. E 00
CE-141	L.T. 5. E 00	L.T. 7. E 00	L.T. 8. E 00	L.T. 5. E 00	L.T. 7. E 00
CE-144	L.T. 2. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 2. E 01	L.T. 3. E 01
RA-226	L.T. 6. E 01	L.T. 9. E 01	L.T. 1. E 02	L.T. 7. E 01	L.T. 8. E 01
TH-228	L.T. 6. E 00	L.T. 7. E 00	L.T. 9. E 00	L.T. 6. E 00	L.T. 8. E 00

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK NEAREST PRODUCER
(PCI/LITER)
STATION NUMBER 61
STATION 61 - 3.5 MI. 326 DEG. IND.

DATE COLLECTED: 12/05 12/05 QA

RADIOCHEMICAL ANALYSIS:

SR-89	LT. 9.	E-01	LT. 6.	E-01
SR-90	1.2 ± 0.1	E 00	1.1 ± 0.2	E 00
I-131	LT. 1.	E-01	LT. 2.	E-01
CA	1.72±0.17	E 00	1.78±0.18	E 00

GAMMA SPECTRUM ANALYSIS:

BE-7	LT. 3.	E 01	LT. 3.	E 01
K-40	1.18±0.12	E 03	1.47±0.15	E 03
MN-54	LT. 3.	E 00	LT. 3.	E 00
CO-58	LT. 3.	E 00	LT. 3.	E 00
FE-59	LT. 7.	E 00	LT. 6.	E 00
CO-60	LT. 3.	E 00	LT. 3.	E 00
ZN-65	LT. 8.	E 00	LT. 7.	E 00
ZR-95	LT. 3.	E 00	LT. 3.	E 00
RU-103	LT. 3.	E 00	LT. 3.	E 00
RU-106	LT. 3.	E 01	LT. 3.	E 01
I-131	LT. 4.	E 00	LT. 3.	E 00
CS-134	LT. 3.	E 00	LT. 3.	E 00
CS-137	LT. 5.	E 00	LT. 4.	E 00
BA-140	LT. 4.	E 00	LT. 3.	E 00
CE-141	LT. 6.	E 00	LT. 5.	E 00
CE-144	LT. 2.	E 01	LT. 2.	E 01
RA-226	LT. 7.	E 01	LT. 6.	E 01
TH-228	LT. 2.	E 00	LT. 6.	E 00

G. MILK - OTHER PRODUCERS

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK OTHER PRODUCERS
(PCI/LITER)
STATION NUMBER 42
STATION 42 - 12.85 MI. 156 DEG. IND.

DATE COLLECTED:	01/17	04/18	07/12	10/24
RADIOCHEMICAL ANALYSIS:				
SR-89	L.T. 7. E-01	L.T. 6. E-01	L.T. 6. E-01	L.T. 7. E-01
SR-90	1.5 ± 0.2 E 00	1.5 ± 0.2 E 00	1.5 ± 0.2 E 00	1.4 ± 0.1 E 00
I-131	L.T. 2. E-01	L.T. 1. E-01	L.T. 1. E-01	L.T. 2. E-01
CA (gm/liter)	1.9 ± 0.2 E 00	1.8 ± 0.2 E 00	1.8 ± 0.2 E 00	1.7 ± 0.2 E 00
GAMMA SPECTRUM ANALYSIS:				
BE-7	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
K-40	1.24±0.12 E 03	1.39±0.14 E 03	1.35±0.14 E 03	1.42±0.14 E 03
MN-54	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
CO-58	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
FE-59	L.T. 8. E 00	L.T. 8. E 00	L.T. 7. E 00	L.T. 8. E 00
CO-60	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
ZN-65	L.T. 8. E 00	L.T. 8. E 00	L.T. 7. E 00	L.T. 8. E 00
ZR-95	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
RU-103	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
RU-106	L.T. 4. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
I-131	L.T. 5. E 00	L.T. 4. E 00	L.T. 6. E 00	L.T. 5. E 00
CS-134	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
CS-137	L.T. 4. E 00	L.T. 5. E 00	L.T. 4. E 00	L.T. 4. E 00
BA-140	L.T. 5. E 00	L.T. 4. E 00	L.T. 5. E 00	L.T. 4. E 00
CE-141	L.T. 7. E 00	L.T. 6. E 00	L.T. 6. E 00	L.T. 5. E 00
CE-144	L.T. 3. E 01	L.T. 2. E 01	L.T. 2. E 01	L.T. 2. E 01
RA-226	L.T. 9. E 01	L.T. 7. E 01	L.T. 7. E 01	L.T. 7. E 01
TH-228	L.T. 7. E 00	L.T. 6. E 00	L.T. 6. E 00	L.T. 7. E 00

**NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
MILK OTHER PRODUCERS
(PC¹/LITER)
STATION NUMBER 100
STATION 100 - 11.5 MI. 197 DEG. IND.**

DATE COLLECTED:	01/17	04/18	07/11	10/24
RADIOCHEMICAL ANALYSIS:				
SR-89	L.T. 7. E-01	L.T. 6. E-01	L.T. 6. E-01	L.T. 7. E-01
SR-90	1.6 ± 0.2 E 00	1.7 ± 0.2 E 00	1.6 ± 0.2 E 00	1.5 ± 0.2 E 00
I-131	L.T. 2. E-01	L.T. 2. E-01	L.T. 2. E-01	L.T. 1. E-01
CA (gm/liter)	1.7 ± 0.2 E 00	1.8 ± 0.2 E 00	1.8 ± 0.2 E 00	1.7 ± 0.2 E 00
GAMMA SPECTRUM ANALYSIS:				
BE-7	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
K-40	1.41 ± 0.14 E 03	1.36 ± 0.14 E 03	1.32 ± 0.13 E 03	1.42 ± 0.14 E 03
MN-54	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00
CO-58	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00
FE-59	L.T. 1. E 01	L.T. 6. E 00	L.T. 8. E 00	L.T. 8. E 00
CO-60	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00
ZN-65	L.T. 1. E 01	L.T. 7. E 00	L.T. 8. E 00	L.T. 8. E 00
ZR-95	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00
RU-103	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00
RU-106	L.T. 4. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 4. E 01
I-131	L.T. 5. E 00	L.T. 4. E 00	L.T. 8. E 00	L.T. 5. E 00
CS-134	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00
CS-137	L.T. 5. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00
BA-140	L.T. 5. E 00	L.T. 4. E 00	L.T. 6. E 00	L.T. 4. E 00
CE-141	L.T. 9. E 00	L.T. 5. E 00	L.T. 6. E 00	L.T. 5. E 00
CE-144	L.T. 4. E 01	L.T. 2. E 01	L.T. 2. E 01	L.T. 2. E 01
RA-226	L.T. 1. E 02	L.T. 6. E 01	L.T. 7. E 01	L.T. 7. E 01
TH-228	L.T. 9. E 00	L.T. 5. E 00	L.T. 7. E 00	L.T. 7. E 00

II. GROUNDWATER

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - GROUND
(PCI/LITER)
STATION NUMBER 11
STATION 11 - 0.15 MI. 225 DEG. IND.

DATE COLLECTED:	01/24	04/25	07/18	10/25
RADIOCHEMICAL ANALYSIS:				
GR-A	L.T. 4. E 00	L.T. 2. E 00	L.T. 3. E 00	L.T. 4. E 00
GR-B	9.5 ± 2.4 E 00	8.6 ± 1.8 E 00	7.7 ± 1.6 E 00	7.6 ± 1.6 E 00
GAMMA SPECTRUM ANALYSIS:				
BE-7	L.T. 3. E 01	L.T. 2. E 01	L.T. 4. E 01	L.T. 3. E 01
K-40	L.T. 5. E 01	L.T. 5. E 01	L.T. 1. E 02	L.T. 8. E 01
MN-54	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00
CO-58	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00
FE-59	L.T. 7. E 00	L.T. 5. E 00	L.T. 9. E 00	L.T. 7. E 00
CO-60	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00
ZN-65	L.T. 8. E 00	L.T. 5. E 00	L.T. 8. E 00	L.T. 6. E 00
ZR-95	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00
RU-103	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00
RU-106	L.T. 3. E 01	L.T. 2. E 01	L.T. 4. E 01	L.T. 3. E 01
I-131	L.T. 4. E 00	L.T. 4. E 00	L.T. 7. E 00	L.T. 4. E 00
CS-134	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00
CS-137	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 3. E 00
BA-140	L.T. 4. E 00	L.T. 4. E 00	L.T. 6. E 00	L.T. 4. E 00
CE-141	L.T. 5. E 00	L.T. 5. E 00	L.T. 6. E 00	L.T. 4. E 00
CE-144	L.T. 2. E 01	L.T. 2. E 01	L.T. 2. E 01	L.T. 2. E 01
RA-226	L.T. 7. E 01	L.T. 6. E 01	L.T. 7. E 01	L.T. 7. E 01
TH-228	L.T. 6. E 00	L.T. 5. E 00	L.T. 7. E 00	L.T. 6. E 00
TRITIUM ANALYSIS:				
H-3	L.T. 1. E 02	L.T. 1. E 02	L.T. 1. E 02	L.T. 1. E 02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - GROUND
(PCI/LITER)
STATION NUMBER 47
STATION 47 - 25.75 MI. 154 DEG. IND.

DATE COLLECTED:	01/23	04/25	07/18	10/25
RADIOCHEMICAL ANALYSIS:				
GR-A	L.T. 3. E 00	7.9 ± 3.6 E 00	L.T. 3. E 00	L.T. 3. E 00
GR-B	1.0 ± 0.2 E 01	1.1 ± 0.2 E 01	6.4 ± 1.5 E 00	6.3 ± 1.5 E 00
GAMMA SPECTRUM ANALYSIS:				
BE-7	L.T. 4. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
K-40	L.T. 6. E 01	L.T. 9. E 01	L.T. 9. E 01	L.T. 8. E 01
MN-54	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00
CO-58	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00
FE-59	L.T. 8. E 00	L.T. 6. E 00	L.T. 6. E 00	L.T. 6. E 00
CO-60	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00
ZN-65	L.T. 8. E 00	L.T. 7. E 00	L.T. 7. E 00	L.T. 7. E 00
ZR-95	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00
RU-103	L.T. 5. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00
RU-106	L.T. 4. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
I-131	L.T. 6. E 00	L.T. 4. E 00	L.T. 6. E 00	L.T. 4. E 00
CS-134	L.T. 5. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
CS-137	L.T. 5. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
BA-140	L.T. 6. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00
CE-141	L.T. 9. E 00	L.T. 5. E 00	L.T. 5. E 00	L.T. 4. E 00
CE-144	L.T. 4. E 01	L.T. 2. E 01	L.T. 2. E 01	L.T. 2. E 01
RA-226	L.T. 1. E 02	L.T. 7. E 01	L.T. 6. E 01	L.T. 6. E 01
TH-228	L.T. 1. E 01	L.T. 6. E 00	L.T. 5. E 00	L.T. 6. E 00
TRITIUM ANALYSIS:				
H-3	L.T. 1. E 02	L.T. 1. E 02	L.T. 1. E 02	L.T. 1. E 02

L RIVER WATER

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - RIVER
(PCI/LITER)
STATION NUMBER 12
STATION 12 - 0.1 MI. 360 DEG. CON

DATE COLLECTED:	01/03	02/07	03/07	04/04	05/02
RADIOCHEMICAL ANALYSIS:					
SR-89	L.T. 2. E 00	L.T. 7. E-01	L.T. 7. E-01	L.T. 1. E 00	L.T. 8. E-01
SR-90	L.T. 9. E-01	L.T. 3. E-01	L.T. 3. E-01	L.T. 5. E-01	L.T. 7. E-01
GR-A DIS	L.T. 2. E 00	4.4 ± 2.7 E 00	L.T. 4. E 00	5.4 ± 3.3 E 00	4.5 ± 2.7 E 00
GR-A SUS	7.3 ± 4.9 E-01	2.5 ± 1.2 E 00	6.5 ± 3.3 E 00	3.0 ± 1.7 E 00	2.3 ± 1.3 E 00
GR-B DIS	9.1 ± 1.6 E 00	9.2 ± 2.2 E 00	9.5 ± 1.6 E 00	1.2 ± 0.2 E 01	1.4 ± 0.2 E 01
GR-B SUS	2.2 ± 0.7 E 00	6.3 ± 1.5 E 00	2.5 ± 0.2 E 01	1.2 ± 0.2 E 01	9.7 ± 1.3 E 00
GAMMA SPECTRUM ANALYSIS:					
BE-7	L.T. 2. E 01	L.T. 2. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
K-40	L.T. 5. E 01	L.T. 5. E 01	L.T. 5. E 01	L.T. 8. E 01	L.T. 8. E 01
MN-54	L.T. 3. E 00	L.T. 2. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
CO-58	L.T. 3. E 00	L.T. 2. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
FE-59	L.T. 5. E 00	L.T. 5. E 00	L.T. 7. E 00	L.T. 7. E 00	L.T. 8. E 00
CO-60	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00
ZN-65	L.T. 6. E 00	L.T. 5. E 00	L.T. 7. E 00	L.T. 7. E 00	L.T. 7. E 00
ZR-95	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00
RU-103	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 4. E 00	L.T. 4. E 00
RU-106	L.T. 2. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
I-131	L.T. 3. E 00	L.T. 4. E 00	L.T. 6. E 00	L.T. 5. E 00	L.T. 9. E 00
CS-134	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
CS-137	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
BA-140	L.T. 3. E 00	L.T. 3. E 00	L.T. 5. E 00	L.T. 4. E 00	L.T. 6. E 00
CE-141	L.T. 5. E 00	L.T. 5. E 00	L.T. 5. E 00	L.T. 6. E 00	L.T. 6. E 00
CE-144	L.T. 2. E 01	L.T. 2. E 01	L.T. 2. E 01	L.T. 3. E 01	L.T. 2. E 01
RA-226	L.T. 6. E 01	L.T. 7. E 01	L.T. 6. E 01	L.T. 7. E 01	L.T. 8. E 01
TH-228	L.T. 5. E 00	L.T. 6. E 00	L.T. 6. E 00	L.T. 6. E 00	L.T. 7. E 00
TRITIUM ANALYSIS:					
	01/03-03/07				04/04-06/13
H-3	L.T. 1. E 02				L.T. 1. E 02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - RIVER
(PCI/LITER)
STATION NUMBER 12
STATION 12 - 0.1 MI. 360 DEG. CON

DATE COLLECTED:	06/13	07/05	08/01	09/06	10/03
RADIOCHEMICAL ANALYSIS:					
SR-89	L.T. 1. E 00	L.T. 8. E-01	L.T. 5. E-01	L.T. 1. E 00	L.T. 3. E-01
SR-90	L.T. 9. E-01	L.T. 7. E-01	L.T. 2. E-01	L.T. 3. E-01	L.T. 2. E-01
GR-A DIS	3.1 ± 2.7 E 00	L.T. 3. E 00	L.T. 2. E 00	L.T. 4. E 00	2.9 ± 2.4 E 00
GR-A SUS	2.8 ± 1.4 E 00	1.8 ± 1.3 E 00	L.T. 8. E-01	L.T. 6. E-01	1.2 ± 0.7 E 00
GR-B DIS	1.4 ± 0.2 E 01	1.2 ± 0.2 E 01	1.4 ± 0.2 E 01	1.2 ± 0.2 E 01	8.7 ± 1.5 E 00
GR-B SUS	8.9 ± 1.3 E 00	1.1 ± 0.1 E 01	4.8 ± 0.9 E 00	L.T. 7. E-01	2.1 ± 0.7 E 00

GAMMA SPECTRUM ANALYSIS:

BE-7	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
K-40	L.T. 5. E 01	L.T. 5. E 01	L.T. 1. E 02	L.T. 6. E 01	L.T. 5. E 01
MN-54	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00
CO-58	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00
FE-59	L.T. 6. E 00	L.T. 6. E 00	L.T. 7. E 00	L.T. 6. E 00	L.T. 6. E 00
CO-60	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00	L.T. 3. E 00
ZN-65	L.T. 7. E 00	L.T. 6. E 00	L.T. 8. E 00	L.T. 7. E 00	L.T. 7. E 00
ZR-95	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00
RU-103	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00
RU-106	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01	L.T. 3. E 01
I-131	L.T. 8. E 00	L.T. 8. E 00	L.T. 5. E 00	L.T. 5. E 00	L.T. 4. E 00
CS-134	L.T. 3. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 3. E 00
CS-137	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00	L.T. 3. E 00	L.T. 4. E 00
BA-140	L.T. 6. E 00	L.T. 6. E 00	L.T. 5. E 00	L.T. 5. E 00	L.T. 3. E 00
CE-141	L.T. 8. E 00	L.T. 7. E 00	L.T. 5. E 00	L.T. 6. E 00	L.T. 5. E 00
CE-144	L.T. 3. E 01	L.T. 3. E 01	L.T. 2. E 01	L.T. 3. E 01	L.T. 2. E 01
RA-226	L.T. 8. E 01	L.T. 7. E 01	L.T. 6. E 01	L.T. 7. E 01	L.T. 7. E 01
TH-228	L.T. 7. E 00	L.T. 6. E 00	L.T. 6. E 00	L.T. 6. E 00	L.T. 6. E 00

TRITIUM ANALYSIS:

H-3	07/05-09/06
	L.T. 1. E 02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - RIVER
(PCI/LITER)
STATION NUMBER 12
STATION 12 - 0.1 MI. 360 DEG. CON

DATE COLLECTED: 11/07 12/05

RADIOCHEMICAL ANALYSIS:

SR-89	L.T. 8.	E-01	L.T. 1.	E 00
SR-90	L.T. 4	E-01	L.T. 4	E-01
GR-A DIS	L.T. 3.	E 00	L.T. 3.	E 00
GR-A SUS	1.3 ± 0.7	E 00	7.4 ± 5.9	E-01
GR-B DIS	1.0 ± 0.2	E 01	9.1 ± 1.6	E 00
GR-B SUS	3.2 ± 0.8	E 00	2.6 ± 0.7	E 00

GAMMA SPECTRUM ANALYSIS:

BE-7	L.T. 3.	E 01	L.T. 3.	E 01
K-40	L.T. 6.	E 01	L.T. 1.	E 02
MN-54	L.T. 3.	E 00	L.T. 4.	E 00
CO-58	L.T. 3.	E 00	L.T. 4.	E 00
FE-59	L.T. 7.	E 00	L.T. 8.	E 00
CO-60	L.T. 3.	E 00	L.T. 4.	E 00
ZN-65	L.T. 7.	E 00	L.T. 8.	E 00
ZR-95	L.T. 3.	E 00	L.T. 4.	E 00
RU-103	L.T. 4.	E 00	L.T. 4.	E 00
RU-106	L.T. 3.	E 01	L.T. 3.	E 01
I-131	L.T. 4.	E 00	L.T. 4.	E 00
CS-134	L.T. 4.	E 00	L.T. 4.	E 00
CS-137	L.T. 3.	E 00	L.T. 4.	E 00
BA-140	L.T. 4.	E 00	L.T. 4.	E 00
CE-141	L.T. 7.	E 00	L.T. 5.	E 00
CE-144	L.T. 3.	E 01	L.T. 2.	E 01
RA-226	L.T. 8.	E 01	L.T. 7.	E 01
TH-228	L.T. 7.	E 00	L.T. 6.	E 00

TRITIUM ANALYSIS: 10/30-12/05

H-3 L.T. 1. E 02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - RIVER
(PCI/LITER)
STATION NUMBER 28
STATION 28 - 1.8 MI. 150 DEG. IND.

DATE COLLECTED:	01/03	02/07	03/07	04/04	05/02
RADIOCHEMICAL ANALYSIS:					
SR-89	LT. 1. E 00	LT. 7. E-01	LT. 7. E-01	LT. 9. E-01	LT. 1. E 00
SR-90	LT. 3. E-01	LT. 3. E-01	LT. 3. E-01	LT. 3. E-01	LT. 7. E-01
GR-A DIS	2.7 ± 2.2 E 00	2.5 ± 2.2 E 00	LT. 4. E 00	LT. 2. E 00	LT. 2. E 00
GR-A SUS	6.5 ± 4.4 E-01	2.1 ± 1.2 E 00	LT. 9. E-01	3.8 ± 2.1 E 00	3.5 ± 1.7 E 00
GR-B DIS	9.2 ± 1.6 E 00	9.7 ± 2.2 E 00	9.1 ± 1.6 E 00	1.0 ± 0.2 E 01	1.3 ± 0.2 E 01
GR-B SUS	1.6 ± 0.6 E 00	5.8 ± 1.5 E 00	3.4 ± 0.8 E 00	1.5 ± 0.2 E 01	1.1 ± 0.1 E 01
GAMMA SPECTRUM ANALYSIS:					
BE-7	LT. 4. E 01	LT. 3. E 01	LT. 3. E 01	LT. 4. E 01	LT. 3. E 01
K-40	LT. 1. E 02	LT. 1. E 02	LT. 5. E 01	LT. 6. E 01	LT. 7. E 01
MN-54	LT. 4. E 00	LT. 3. E 00	LT. 2. E 00	LT. 4. E 00	LT. 3. E 00
CO-58	LT. 4. E 00	LT. 3. E 00	LT. 2. E 00	LT. 4. E 00	LT. 3. E 00
FE-59	LT. 8. E 00	LT. 7. E 00	LT. 5. E 00	LT. 8. E 00	LT. 6. E 00
CO-60	LT. 4. E 00	LT. 3. E 00	LT. 3. E 00	LT. 5. E 00	LT. 3. E 00
ZN-65	LT. 9. E 00	LT. 8. E 00	LT. 6. E 00	LT. 8. E 00	LT. 6. E 00
ZR-95	LT. 4. E 00	LT. 4. E 00	LT. 3. E 00	LT. 4. E 00	LT. 3. E 00
RU-103	LT. 5. E 00	LT. 4. E 00	LT. 3. E 00	LT. 4. E 00	LT. 4. E 00
RU-106	LT. 4. E 01	LT. 3. E 01	LT. 3. E 01	LT. 4. E 01	LT. 3. E 01
I-131	LT. 5. E 00	LT. 5. E 00	LT. 5. E 00	LT. 6. E 00	LT. 8. E 00
CS-134	LT. 4. E 00	LT. 4. E 00	LT. 3. E 00	LT. 4. E 00	LT. 3. E 00
CS-137	LT. 5. E 00	LT. 4. E 00	LT. 3. E 00	LT. 5. E 00	LT. 3. E 00
BA-140	LT. 4. E 00	LT. 4. E 00	LT. 3. E 00	LT. 6. E 00	LT. 5. E 00
CE-141	LT. 7. E 00	LT. 6. E 00	LT. 6. E 00	LT. 8. E 00	LT. 6. E 00
CE-144	LT. 3. E 01	LT. 3. E 01	LT. 2. E 01	LT. 3. E 01	LT. 2. E 01
RA-226	LT. 9. E 01	LT. 8. E 01	LT. 7. E 01	LT. 1. E 02	LT. 7. E 01
TH-228	LT. 8. E 00	LT. 7. E 00	LT. 5. E 00	LT. 1. E 01	LT. 6. E 00
TRITIUM ANALYSIS:					
	01/03-03/07				04/04-06/13
H-3	LT. 1. E 02				LT. 1. E 02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - RIVER
(PCI/LITER)
STATION NUMBER 28
STATION 28 - 1.8 MI. 150 DEG. IND.

DATE COLLECTED:	06/13		07/05		08/01		09/05		10/03	
RADIOCHEMICAL ANALYSIS:										
SR-89	LT. 1.	E 00	LT. 1.	E 00	LT. 7.	E-01	LT. 1.	E 00	LT. 7.	E-01
SR-90	LT. 6.	E-01	LT. 4.	E-01	LT. 3.	E-01	LT. 4.	E-01	LT. 4.	E-01
GR-A DIS	LT. 2.	E 00	LT. 3.	E 00	LT. 2.	E 00	LT. 3.	E 00	LT. 2.	E 00
GR-A SUS	3.7 ± 1.7	E 00	7.6 ± 6.1	E-01	LT. 7.	E-01	LT. 6.	E-01	1.1 ± 0.7	E 00
GR-B DIS	1.1 ± 0.2	E 01	1.2 ± 0.2	E 01	1.2 ± 0.2	E 01	1.1 ± 0.2	E 01	7.6 ± 1.4	E 00
GR-B SUS	1.2 ± 0.1	E 01	3.4 ± 0.8	E 00	4.2 ± 0.8	E 00	LT. 7.	E-01	2.6 ± 0.7	E 00

GAMMA SPECTRUM ANALYSIS:

BE-7	LT. 4.	E 01	LT. 3.	E 01	LT. 3.	E 01	LT. 3.	E 01	LT. 3.	E 01
K-40	LT. 7.	E 01	LT. 6.	E 01	LT. 7.	E 01	LT. 8.	E 01	LT. 9.	E 01
MN-54	LT. 3.	E 00	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 3.	E 00
CO-58	LT. 4.	E 00	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 3.	E 00
FE-59	LT. 7.	E 00	LT. 6.	E 00	LT. 7.	E 00	LT. 8.	E 00	LT. 7.	E 00
CO-60	LT. 4.	E 00	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00
ZN-65	LT. 7.	E 00	LT. 6.	E 00	LT. 7.	E 00	LT. 9.	E 00	LT. 7.	E 00
ZR-95	LT. 4.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00
RU-103	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00
RU-106	LT. 3.	E 01	LT. 3.	E 01	LT. 3.	E 01	LT. 4.	E 01	LT. 3.	E 01
I-131	LT. 8.	E 00	LT. 8.	E 00	LT. 7.	E 00	LT. 5.	E 00	LT. 5.	E 00
CS-134	LT. 4.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00
CS-137	LT. 4.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00
BA-140	LT. 6.	E 00	LT. 6.	E 00	LT. 5.	E 00	LT. 5.	E 00	LT. 5.	E 00
CE-141	LT. 9.	E 00	LT. 8.	E 00	LT. 8.	E 00	LT. 6.	E 00	LT. 6.	E 00
CE-144	LT. 4.	E 01	LT. 3.	E 01	LT. 3.	E 01	LT. 3.	E 01	LT. 2.	E 01
RA-226	LT. 1.	E 02	LT. 8.	E 01	LT. 1.	E 02	LT. 8.	E 01	LT. 7.	E 01
TH-228	LT. 8.	E 00	LT. 7.	E 00	LT. 8.	E 00	LT. 7.	E 00	LT. 6.	E 00

TRITIUM ANALYSIS:

H-3 L.T. 1. E 02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - RIVER
(PCI/LITER)
STATION NUMBER 28
STATION 28 - 1.8 MI. 150 DEG. IND.

DATE COLLECTED: 11/07 12/05

RADIOCHEMICAL ANALYSIS:

SR-89	LT. 9.	E-01	LT. 8.	E-01
SR-90	LT. 4.	E-01	LT. 4.	E-01
GR-A DIS	6.1 ± 3.5	E 00	LT. 3.	E 00
GR-A SUS	1.3 ± 0.7	E 00	LT. 7.	E-01
GR-B DIS	9.6 ± 1.7	E 00	7.7 ± 1.4	E 00
GR-B SUS	3.1 ± 0.8	E 00	2.6 ± 0.7	E 00

GAMMA SPECTRUM ANALYSIS:

BE-7	LT. 3.	E 01	LT. 3.	E 01
K-40	LT. 7.	E 01	LT. 9.	E 01
MN-54	LT. 3.	E 00	LT. 3.	E 00
CO-58	LT. 3.	E 00	LT. 3.	E 00
FE-59	LT. 6.	E 00	LT. 7.	E 00
CO-60	LT. 4.	E 00	LT. 3.	E 00
ZN-65	LT. 7.	E 00	LT. 7.	E 00
ZR-95	LT. 4.	E 00	LT. 3.	E 00
RU-103	LT. 4.	E 00	LT. 4.	E 00
RU-106	LT. 3.	E 01	LT. 3.	E 01
I-131	LT. 5.	E 00	LT. 4.	E 00
CS-134	LT. 4.	E 00	LT. 4.	E 00
CS-137	LT. 4.	E 00	LT. 4.	E 00
BA-140	LT. 5.	E 00	LT. 4.	E 00
CE-141	LT. 8.	E 00	LT. 5.	E 00
CE-144	LT. 3.	E 01	LT. 2.	E 01
RA-226	LT. 1.	E 02	LT. 7.	E 01
TH-228	LT. 9.	E 00	LT. 6.	E 00

TRITIUM ANALYSIS: 10/30-12/05

H-3 LT. 1. E 02

J. THERMOLUMINESCENT DOSIMETRY - RADIATION DOSE

TABLE J-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD
milliRoentgen/Quarter

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/05-04/12	SECOND QUARTER 04/12-07/11	THIRD QUARTER 07/11-10/06	FOURTH QUARTER 10/06-12/26
TLD (Gamma)	01	16.3 ± 1.1	15.5 ± 0.6	14.7 ± 1.0	16.8 ± 1.3
	02	16.4 ± 0.6	17.9 ± 0.9	14.3 ± 0.8	15.3 ± 1.0
	03	15.5 ± 0.5	12.2 ± 0.5	13.0 ± 0.6	14.7 ± 0.6
	04	15.9 ± 0.6	14.6 ± 0.8	13.7 ± 0.9	15.3 ± 1.1
	05	17.9 ± 1.3	17.7 ± 0.4	13.7 ± 0.6	15.2 ± 0.7
	06	16.7 ± 0.4	15.5 ± 0.6	14.0 ± 0.5	16.0 ± 0.9
	07	16.3 ± 1.4	14.2 ± 0.5	13.9 ± 0.8	15.8 ± 1.0
	08	16.4 ± 1.1	15.7 ± 0.9	15.0 ± 1.1	16.2 ± 1.4
	09	16.1 ± 0.8	14.0 ± 0.7	13.8 ± 0.6	15.0 ± 0.8
	10	16.3 ± 0.8	14.7 ± 0.8	14.3 ± 1.0	15.9 ± 0.6
	20	17.5 ± 0.6	15.1 ± 0.4	15.5 ± 0.7	17.0 ± 0.9
	44	19.5 ± 1.0	16.6 ± 0.6	17.8 ± 0.9	18.2 ± 0.5
	56	15.6 ± 0.5	15.1 ± 0.4	15.7 ± 0.9	17.0 ± 1.1
	58	17.2 ± 0.7	15.7 ± 0.7	16.5 ± 1.0	16.8 ± 0.9
	59	17.5 ± 0.5	17.4 ± 0.9	17.4 ± 1.0	16.8 ± 1.5
	66	19.5 ± 0.6	*	18.4 ± 0.8	18.9 ± 1.1
	67	20.9 ± 0.9	17.0 ± 0.6	17.8 ± 0.9	17.4 ± 0.9
	71	17.6 ± 0.8	15.6 ± 0.8	16.9 ± 0.8	17.7 ± 1.1

*TLD missing

TABLE J-1
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD
milliRoentgen/Quarter

SAMPLE NUCLIDE	STATION NUMBER	FIRST QUARTER 01/05-04/12	SECOND QUARTER 04/12-07/11	THIRD QUARTER 07/11-10/06	FOURTH QUARTER 10/06-12/26
	79	18.9 ± 0.8	15.0 ± 0.7	16.2 ± 0.8	17.7 ± 0.8
	80	17.8 ± 0.3	16.5 ± 0.6	16.6 ± 0.8	17.4 ± 1.2
	81	18.0 ± 0.7	15.6 ± 0.8	17.0 ± 0.8	17.3 ± 1.0
	82	17.1 ± 1.0	15.7 ± 1.0	18.2 ± 0.5	17.5 ± 1.0
	83	17.9 ± 1.0	16.4 ± 1.1	17.7 ± 0.9	17.4 ± 0.5
	84	18.9 ± 1.1	17.2 ± 0.7	18.1 ± 1.2	18.3 ± 0.8
	85	17.0 ± 0.5	16.0 ± 0.5	15.9 ± 0.7	17.4 ± 0.9
	86	17.9 ± 0.6	18.7 ± 0.9	18.3 ± 0.5	17.1 ± 0.8
	87	18.3 ± 0.9	15.3 ± 0.8	17.0 ± 1.2	17.2 ± 1.3
	88	16.6 ± 0.5	15.7 ± 0.5	15.5 ± 0.4	16.1 ± 0.4
	89	18.1 ± 0.5	18.8 ± 0.7	17.2 ± 0.9	18.2 ± 0.9
	90	18.4 ± 0.7	14.7 ± 0.5	18.4 ± 0.5	17.5 ± 1.0
	91	16.7 ± 0.8	14.9 ± 0.7	15.1 ± 0.7	16.3 ± 1.1
	94	18.4 ± 1.0	16.5 ± 0.9	17.1 ± 1.1	17.0 ± 1.1
Average/Quarter		97 days 17.4±1.2 mR/97 days	90.5 days 15.9±1.4 mR/90.5 days	90.6 days 16.1±1.7 mR/90.6 days	79.86 days 16.8±1.0 mR/79.86 days
Average/Day		0.18±0.01 mR/day	0.18±0.02 mR/day	0.17±0.02	0.21±0.01
Range		(16-21)mR/97 days	(12-19)mR/90.5 days	(13-18)mR/90.6 days	(15-19) mR/79.86 days
Det./Total		32/32	31/31	32/32	(32/32)

TABLE J-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD
milliRoentgen/Quarter

SAMPLE NUCLIDE	STATION NUMBER	Aver./Quarter	TOTAL mR/year 01/05/95-12/26/95
TLD (Gamma)	01	15.8 ± 0.9	63.3
	02	16.0 ± 1.5	63.9
	03	13.9 ± 1.5	55.4
	04	14.9 ± 1.0	59.5
	05	16.1 ± 2.0	64.5
	06	15.6 ± 1.1	62.2
	07	15.1 ± 1.2	60.2
	08	15.8 ± 0.6	63.3
	09	14.7 ± 1.1	58.9
	10	15.3 ± 1.0	61.2
	20	16.3 ± 1.2	65.1
	44	18.0 ± 1.2	72.1
	56	15.9 ± 0.8	63.4
	58	16.6 ± 0.6	66.2
	59	17.3 ± 0.3	69.1
	66	18.9 ± 0.6	56.8
	67	18.3 ± 1.8	73.1
	71	17.0 ± 1.0	67.8

TABLE J-2
1995 QUARTERLY REPORT
NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - AMBIENT GAMMA RADIATION: TLD
milliRoentgen/Quarter

SAMPLE NUCLIDE	STATION NUMBER	Aver./Quarter	TOTAL mR/year 01/05/95-12/26/95
TLD (Gamma)	79	17.0 ± 1.7	67.8
	80	17.1 ± 0.6	68.3
	81	17.0 ± 1.0	67.9
	82	17.1 ± 1.1	68.5
	83	17.4 ± 0.7	69.4
	84	18.1 ± 0.7	72.5
	85	16.6 ± 0.7	66.3
	86	18.0 ± 0.7	72.0
	87	17.0 ± 1.2	67.8
	88	16.0 ± 0.5	63.9
	89	18.1 ± 0.7	72.3
	90	17.3 ± 1.8	69.0
	91	15.8 ± 0.9	63.0
	94	17.3 ± 0.8	69.0
		16.6 ± 0.4 Average mR/Quarter	65.7 ± 4.7
		Range(14-19)	Aver. total mR year. All stations
			Range (55.4-73.1)

K FOOD - BROADLEAF VEGETATION

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 35
STATION 35 - 2.0 MI. 350 DEG. CON.

DATE COLLECTED:	05/16 CURLY DOCK		05/16 WILD MUSTARDS		05/16 WILD CARROT		06/28 VINES		06/28 BL 2	
RADIOCHEMICAL ANALYSIS:										
I-131	LT. 7.	E-03	LT. 5.	E-03	LT. 7.	E-03	LT. 1.	E-02	LT. 1.	E-02
GAMMA SPECTRUM ANALYSIS:										
BE-7	7.17±1.01	E-01	2.23±0.22	E 00	1.36±0.14	E 00	1.39±0.14	E 00	2.58±0.26	E 00
K-40	5.43±0.54	E 00	4.07±0.41	E 00	5.70±0.57	E 00	4.26±0.43	E 00	8.52±0.85	E 00
MN-54	LT. 1.	E-02	LT. 2.	E-02	LT. 9.	E-03	LT. 2.	E-02	LT. 1.	E-02
CO-58	LT. 1.	E-02	LT. 2.	E-02	LT. 9.	E-03	LT. 2.	E-02	LT. 1.	E-02
FE-59	LT. 3.	E-02	LT. 4.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 3.	E-02
CO-60	LT. 1.	E-02	LT. 2.	E-02	LT. 9.	E-03	LT. 2.	E-02	LT. 1.	E-02
ZN-65	LT. 3.	E-02	LT. 5.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 3.	E-02
ZR-95	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02
RU-103	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02
RU-106	LT. 1.	E-01	LT. 2.	E-01	LT. 9.	E-02	LT. 1.	E-01	LT. 1.	E-01
I-131	LT. 3.	E-02	LT. 5.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 4.	E-02
CS-134	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02
CS-137	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02
BA-140	LT. 2.	E-02	LT. 4.	E-02	LT. 1.	E-02	LT. 3.	E-02	LT. 2.	E-02
CE-141	LT. 2.	E-02	LT. 4.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02
CE-144	LT. 8.	E-02	LT. 1.	E-01	LT. 6.	E-02	LT. 9.	E-02	LT. 7.	E-02
RA-226	LT. 3.	E-01	LT. 4.	E-01	LT. 2.	E-01	LT. 3.	E-01	LT. 2.	E-01
TH-228	LT. 3.	E-02	8.53±2.90	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 2.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 35
STATION 35 - 2.0 MI. 350 DEG. CON.

DATE COLLECTED:	06/28 CURLY DOCK	07/18 VINE	07/18 BL#1	07/18 WILD RHUBARB	07/18 QA VINE
RADIOCHEMICAL ANALYSIS:					
I-131	L.T. 1. E-02	L.T. 8. E-03	L.T. 7. E-03	L.T. 1. E-02	L.T. 7. E-03
GAMMA SPECTRUM ANALYSIS:					
BE-7	4.08±0.41 E 00	2.77±0.28 E 00	2.35±0.24 E 00	3.54±0.71 E-01	2.01±0.20 E 00
K-40	1.16±0.12 E 01	6.26±0.63 E 00	7.91±0.79 E 00	6.79±0.68 E 00	4.66±0.47 E 00
MN-54	L.T. 4. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 9. E-03	L.T. 2. E-02
CO-58	L.T. 4. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 9. E-03	L.T. 2. E-02
FE-59	L.T. 9. E-02	L.T. 5. E-02	L.T. 5. E-02	L.T. 2. E-02	L.T. 4. E-02
CO-60	L.T. 4. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 9. E-03	L.T. 2. E-02
ZN-65	L.T. 9. E-02	L.T. 5. E-02	L.T. 5. E-02	L.T. 2. E-02	L.T. 4. E-02
ZR-95	L.T. 4. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 9. E-03	L.T. 2. E-02
RU-103	L.T. 4. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 9. E-03	L.T. 2. E-02
RU-106	L.T. 4. E-01	L.T. 2. E-01	L.T. 2. E-01	L.T. 7. E-02	L.T. 2. E-01
I-131	L.T. 8. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 2. E-02	L.T. 4. E-02
CS-134	L.T. 5. E-02	L.T. 3. E-02	L.T. 2. E-02	L.T. 1. E-02	L.T. 2. E-02
CS-137	L.T. 5. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 9. E-03	L.T. 2. E-02
BA-140	L.T. 7. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 9. E-03	L.T. 3. E-02
CE-141	L.T. 6. E-02	L.T. 3. E-02	L.T. 3. E-02	L.T. 2. E-02	L.T. 3. E-02
CE-144	L.T. 2. E-01	L.T. 1. E-01	L.T. 1. E-01	L.T. 7. E-02	L.T. 1. E-01
RA-226	L.T. 8. E-01	L.T. 5. E-01	L.T. 3. E-01	L.T. 2. E-01	L.T. 3. E-01
TH-228	1.05±0.39 E-01	L.T. 4. E-02	L.T. 3. E-02	L.T. 2. E-02	L.T. 3. E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 35
STATION 35 - 2.0 MI. 350 DEG. CON.

DATE COLLECTED:	08/15 WILD GRAPE		08/15 GIANT RAGWEED		08/15 RED ROOT		09/19 BL 1		09/19 BL 2	
RADIOCHEMICAL ANALYSIS:										
I-131	LT. 1.	E-02	LT. 1.	E-02	LT. 9.	E-03	LT. 9.	E-03	LT. 1.	E-02
GAMMA SPECTRUM ANALYSIS:										
BE-7	1.67±0.21	E 00	3.44±0.34	E 00	1.37±0.14	E 00	1.16±0.18	E 00	1.74±0.18	E 00
K-40	3.83±0.38	E 00	7.87±0.79	E 00	3.63±0.36	E 00	6.05±0.60	E 00	4.56±0.43	E 00
MN-54	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
CO-58	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E 02	LT. 2.	E-02	LT. 2.	E-02
FE-59	LT. 4.	E-02	LT. 4.	E-02	LT. 3.	E-02	LT. 4.	E-02	LT. 4.	E-02
CO-60	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
ZN-65	LT. 5.	E-02	LT. 5.	E-02	LT. 3.	E-02	LT. 4.	E-02	LT. 4.	E-02
ZR-95	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
RU-103	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
RU-106	LT. 2.	E-01	LT. 2.	E-01	LT. 1.	E-01	LT. 2.	E-01	LT. 2.	E-01
I-131	LT. 3.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 3.	E-02
CS-134	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
CS-137	LT. 3.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
BA-140	LT. 3.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 3.	E-02	LT. 2.	E-02
CE-141	LT. 4.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 4.	E-02
CE-144	LT. 2.	E-01	LT. 1.	E-01	LT. 1.	E-01	LT. 1.	E-01	LT. 1.	E-01
RA-226	LT. 5.	E-01	LT. 3.	E-01	LT. 3.	E-01	LT. 3.	E-01	LT. 4.	E-01
TH-228	LT. 5.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 4.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 35
STATION 35 - 2.0 MI. 350 DEG. CON.

DATE COLLECTED:	09/19 GIANT RAGWEED	10/10 WHITEFLOWER	10/10 SANDWEED	10/10 VINE	10/10 QA VINE
RADIOCHEMICAL ANALYSIS:					
I-131	L.T. 9. E-03	L.T. 6. E-03	L.T. 7. E-03	L.T. 7. E-03	L.T. 5. E-03
GAMMA SPECTRUM ANALYSIS:					
BE-7	2.31±0.23 E 00	2.92±0.29 E 00	2.14±0.21 E 00	1.41±0.15 E 00	2.40±0.24 E 00
K-40	6.54±0.65 E 00	5.89±0.59 E 00	6.53±0.65 E 00	4.13±0.41 E 00	5.39±0.54 E 00
MN-54	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
CO-58	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
FE-59	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 3. E-02
CO-60	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
ZN-65	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 4. E-02	L.T. 3. E-02
ZR-95	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
RU-103	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
RU-106	L.T. 2. E-01	L.T. 2. E-01	L.T. 2. E-01	L.T. 2. E-01	L.T. 1. E-01
I-131	L.T. 2. E-02	L.T. 2. E-02	L.T. 3. E-02	L.T. 2. E-02	L.T. 2. E-02
CS-134	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
CS-137	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
BA-140	L.T. 2. E-02	L.T. 2. E-02	L.T. 3. E-02	L.T. 2. E-02	L.T. 2. E-02
CE-141	L.T. 2. E-02	L.T. 3. E-02	L.T. 4. E-02	L.T. 2. E-02	L.T. 3. E-02
CE-144	L.T. 9. E-02	L.T. 1. E-01	L.T. 1. E-01	L.T. 1. E-01	L.T. 1. E-01
RA-226	L.T. 3. E-01	L.T. 4. E-01	L.T. 4. E-01	L.T. 3. E-01	L.T. 3. E-01
TH-228	L.T. 3. E-02	L.T. 3. E-02	L.T. 4. E-02	L.T. 3. E-02	L.T. 3. E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 96
STATION 96 - 1.25 MI. 334 DEG. IND.

DATE COLLECTED:	05/16 PLANTAIN		05/16 DANDELION		05/16 DANDELION QA		05/16 CURLY DOCK		06/27 FLEABANE	
RADIOCHEMICAL ANALYSIS:										
I-131	LT. 4.	E-03	LT. 8.	E-03	LT. 6.	E-03	LT. 6.	E-03	LT. 1.	E-02
GAMMA SPECTRUM ANALYSIS:										
BE-7	2.10±0.21 E 00		2.56±0.26 E 00		2.77±0.28 E 00		1.74±0.17 E 00		4.27±0.43 E 00	
K-40	5.53±0.55 E 00		6.10±0.61 E 00		6.56±0.66 E 00		6.91±0.69 E 00		1.02±0.10 E 01	
MN-54	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 3.	E-02
CO-58	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 3.	E-02
FE-59	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 2.	E-02	LT. 6.	E-02
CO-60	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 9.	E-03	LT. 3.	E-02
ZN-65	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 2.	E-02	LT. 6.	E-02
ZR-95	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 3.	E-02
RU-103	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 3.	E-02
RU-106	LT. 1.	E-01	LT. 1.	E-01	LT. 1.	E-01	LT. 9.	E-02	LT. 3.	E-01
I-131	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 2.	E-02	LT. 6.	E-02
CS-134	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 3.	E-02
CS-137	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 3.	E-02
BA-140	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 5.	E-02
CE-141	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 4.	E-02
CE-144	LT. 7.	E-02	LT. 9.	E-02	LT. 8.	E-02	LT. 6.	E-02	LT. 1.	E-01
RA-226	LT. 2.	E-01	LT. 3.	E-01	LT. 3.	E-01	LT. 2.	E-01	LT. 5.	E-01
TH-228	7.14±1.41 E-02		1.06±0.15 E-01		LT. 3. E-02		LT. 2. E-02		1.74±0.28 E-01	
RA-224			3.40±1.78 E-01							

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 96
STATION 96 - 1.25 ML 334 DEG. IND.

DATE COLLECTED:	06/27 BUNDLEFLOWER	06/27 BL 3	07/18 SMARTWEED	07/18 MILKWEED	07/18 COCKLEBURR
RADIOCHEMICAL ANALYSIS:					
I-131	LT. 1. E-02	LT. 9. E-03	LT. 7. E-03	LT. 7. E-03	LT. 9. E-03
GAMMA SPECTRUM ANALYSIS:					
BE-7	1.31±0.15 E 00	1.56±0.16 E 00	2.52±0.25 E 00	7.83±1.79 E-01	1.19±0.12E 00
K-40	7.53±0.75 E 00	8.85±0.88 E 00	3.76±0.38 E 00	6.36±0.64 E 00	7.53±0.75E 00
MN-54	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 3. E-02	LT. 1. E-02
CO-58	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 3. E-02	LT. 1. E-02
FE-59	LT. 4. E-02	LT. 3. E-02	LT. 4. E-02	LT. 5. E-02	LT. 3. E-02
CO-60	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 2. E-02	LT. 1. E-02
ZN-65	LT. 4. E-02	LT. 3. E-02	LT. 4. E-02	LT. 6. E-02	LT. 3. E-02
ZR-95	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 3. E-02	LT. 1. E-02
RU-103	LT. 2. E-02	LT. 2. E-02	LT. 2. E-02	LT. 3. E-02	LT. 1. E-02
RU-106	LT. 2. E-01	LT. 1. E-01	LT. 2. E-01	LT. 2. E-01	LT. 1. E-01
I-131	LT. 4. E-02	LT. 3. E-02	LT. 4. E-02	LT. 5. E-02	LT. 2. E-02
CS-134	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 3. E-02	LT. 1. E-02
CS-137	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 3. E-02	LT. 1. E-02
BA-140	LT. 3. E-02	LT. 2. E-02	LT. 3. E-02	LT. 3. E-02	LT. 1. E-02
CE-141	LT. 3. E-02	LT. 2. E-02	LT. 3. E-02	LT. 4. E-02	LT. 1. E-02
CE-144	LT. 1. E-01	LT. 8. E-02	LT. 1. E-01	LT. 1. E-01	LT. 5. E-02
RA-226	LT. 4. E-01	LT. 2. E-01	LT. 4. E-01	LT. 5. E-01	LT. 2. E-01
TH-228	LT. 3. E-02	LT. 2. E-02	LT. 3. E-02	LT. 4. E-02	LT. 2. E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 96
STATION 96 - 1.25 MI. 334 DEG. IND.

DATE COLLECTED:	08/15 RED ROOT		08/15 COMMON RAGWEED		08/15 BUNDLEWEED		08/15 QA RED ROOT		09/19 GOLDENROD	
RADIOCHEMICAL ANALYSIS:										
I-131	L.T. 7.	E-03	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 9.	E-03	L.T. 7.	E-03
GAMMA SPECTRUM ANALYSIS:										
BE-7	2.42±0.24 E 00		1.44±0.14 E 00		7.13±1.11 E-01		1.63±0.16 E 00		1.91±0.19E 00	
K-40	3.88±0.39 E 00		7.07±0.71 E 00		3.32±0.33 E 00		4.73±0.47 E 00		5.66±0.57E 00	
MN-54	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 2.	E-02	L.T. 1.	E-02
CO-58	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 2.	E-02	L.T. 1.	E-02
FE-59	L.T. 3.	E-02	L.T. 3.	E-02	L.T. 3.	E-02	L.T. 4.	E-02	L.T. 3.	E-02
CO-60	L.T. 2.	E-02	L.T. 1.	E-02	L.T. 2.	E-02	L.T. 2.	E-02	L.T. 1.	E-02
ZN-65	L.T. 3.	E-02	L.T. 3.	E-02	L.T. 3.	E-02	L.T. 4.	E-02	L.T. 3.	E-02
ZR-95	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 2.	E-02	L.T. 1.	E-02
RU-103	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 2.	E-02	L.T. 1.	E-02
RU-106	L.T. 1.	E-01	L.T. 1.	E-01	L.T. 1.	E-01	L.T. 2.	E-01	L.T. 1.	E-01
I-131	L.T. 2.	E-02	L.T. 2.	E-02	L.T. 2.	E-02	L.T. 3.	E-02	L.T. 2.	E-02
CS-134	L.T. 2.	E-02	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 2.	E-02	L.T. 1.	E-02
CS-137	L.T. 2.	E-02	L.T. 1.	E-02	L.T. 1.	E-02	L.T. 2.	E-02	L.T. 1.	E-02
BA-140	L.T. 2.	E-02	L.T. 2.	E-02	L.T. 1.	E-02	L.T. 2.	E-02	L.T. 1.	E-02
CE-141	L.T. 2.	E-02	L.T. 2.	E-02	L.T. 2.	E-02	L.T. 3.	E-02	L.T. 2.	E-02
CE-144	L.T. 8.	E-02	L.T. 7.	E-02	L.T. 1.	E-01	L.T. 1.	E-01	L.T. 6.	E-02
RA-226	L.T. 3.	E-01	L.T. 2.	E-01	L.T. 3.	E-01	L.T. 4.	E-01	L.T. 2.	E-01
TH-228	L.T. 3.	E-02	1.94±0.19 E-01		L.T. 3.	E-02	L.T. 3.	E-02	L.T. 2.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 96
STATION 96 - 1.25 MI. 334 DEG. IND.

DATE COLLECTED:	09/19 BL 2	09/19 BL 3	10/10 GOLDENROD	10/10 POKEWEED	10/10 SMARTWEED
RADIOCHEMICAL ANALYSIS:					
I-131	LT. 1. E-02	LT. 1. E-02	LT. 7. E-03	LT. 6. E-03	LT. 8. E-03
GAMMA SPECTRUM ANALYSIS:					
BE-7	7.14±1.65 E-01	8.02±0.95 E-01	1.77±0.18 E 00	6.72±1.12 E-01	4.06±0.41 E 00
K-40	3.00±0.30 E 00	5.07±0.51 E 00	6.46±0.65 E 00	9.69±0.97 E 00	2.65±0.26 E 00
MN-54	LT. 2. E-02	LT. 1. E-02	LT. 1. E-02	LT. 2. E-02	LT. 1. E-02
CO-58	LT. 2. E-02	LT. 1. E-02	LT. 1. E-02	LT. 2. E-02	LT. 1. E-02
FE-59	LT. 5. E-02	LT. 3. E-02	LT. 3. E-02	LT. 4. E-02	LT. 3. E-02
CO-60	LT. 2. E-02	LT. 1. E-02	LT. 1. E-02	LT. 2. E-02	LT. 1. E-02
ZN-65	LT. 5. E-02	LT. 2. E-02	LT. 3. E-02	LT. 4. E-02	LT. 4. E-02
ZR-95	LT. 2. E-02	LT. 1. E-02	LT. 1. E-02	LT. 2. E-02	LT. 1. E-02
RU-103	LT. 2. E-02	LT. 1. E-02	LT. 1. E-02	LT. 2. E-02	LT. 2. E-02
RU-106	LT. 2. E-01	LT. 1. E-01	LT. 1. E-01	LT. 1. E-01	LT. 1. E-01
I-131	LT. 4. E-02	LT. 3. E-02	LT. 2. E-02	LT. 2. E-02	LT. 3. E-02
CS-134	LT. 2. E-02	LT. 1. E-02	LT. 1. E-02	LT. 2. E-02	LT. 2. E-02
CS-137	LT. 2. E-02	LT. 1. E-02	LT. 1. E-02	LT. 2. E-02	LT. 2. E-02
BA-140	LT. 3. E-02	LT. 2. E-02	LT. 1. E-02	LT. 2. E-02	LT. 2. E-02
CE-141	LT. 4. E-02	LT. 2. E-02	LT. 2. E-02	LT. 2. E-02	LT. 2. E-02
CE-144	LT. 2. E-01	LT. 9. E-02	LT. 8. E-02	LT. 8. E-02	LT. 9. E-02
RA-226	LT. 4. E-01	LT. 3. E-01	LT. 2. E-01	LT. 2. E-01	LT. 3. E-01
TH-228	LT. 4. E-02	LT. 2. E-02	LT. 2. E-02	LT. 2. E-02	LT. 3. E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 101
STATION 101 - 13.3 MI. 73 DEG. CON.

DATE COLLECTED:	05/16 CURLY DOCK		05/16 DANDELION		05/16 PENNYCREST		06/28 SMARTWEED		06/28 RAGWEED	
RADIOCHEMICAL ANALYSIS:										
I-131	LT. 5.	E-03	LT. 7.	E-03	LT. 6.	E-03	LT. 9.	E-03	LT. 1.	E-02
GAMMA SPECTRUM ANALYSIS:										
BE-7	1.44±0.14	E 00	2.15±0.22	E 00	1.16±0.12	E 00	2.08±0.21	E 00	2.98±0.30	E 00
K-40	3.69±0.37	E 00	4.21±0.42	E 00	3.87±0.39	E 00	4.93±0.49	E 00	7.86±0.79	E 00
MN-54	LT. 6.	E-03	LT. 6.	E-03	LT. 8.	E-03	LT. 2.	E-02	LT. 2.	E-02
CO-58	LT. 7.	E-03	LT. 6.	E-03	LT. 9.	E-03	LT. 2.	E-02	LT. 2.	E-02
FE-59	LT. 1.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 4.	E-02	LT. 3.	E-02
CO-60	LT. 7.	E-03	LT. 6.	E-03	LT. 9.	E-03	LT. 2.	E-02	LT. 1.	E-02
ZN-65	LT. 1.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 4.	E-02	LT. 3.	E-02
ZR-95	LT. 7.	E-03	LT. 7.	E-03	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
RU-103	LT. 8.	E-03	LT. 7.	E-03	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
RU-106	LT. 6.	E-02	LT. 5.	E-02	LT. 8.	E-02	LT. 2.	E-01	LT. 1.	E-01
I-131	LT. 2.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 6.	E-02	LT. 4.	E-02
CS-134	LT. 7.	E-03	LT. 7.	E-03	LT. 9.	E-03	LT. 2.	E-02	LT. 2.	E-02
CS-137	LT. 8.	E-03	LT. 7.	E-03	2.72±0.74	E-02	LT. 2.	E-02	LT. 2.	E-02
BA-140	LT. 1.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 4.	E-02	LT. 3.	E-02
CE-141	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 3.	E-02	LT. 2.	E-02
CE-144	LT. 4.	E-02	LT. 4.	E-02	LT. 5.	E-02	LT. 1.	E-01	LT. 8.	E-02
RA-226	LT. 2.	E-01	LT. 1.	E-01	LT. 1.	E-01	LT. 3.	E-01	LT. 3.	E-01
TH-228	LT. 1.	E-02	2.90±0.67	E-02	6.08±0.81	E-02	LT. 3.	E-02	LT. 3.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 101
STATION 101 - 13.3 MI. 73 DEG. CON.

DATE COLLECTED:	06/28 MILKWEED		06/28 QA SMARTWEED		07/18 COCKLEBURR		07/18 RAGWEED		07/18 SMARTWEED	
RADIOCHEMICAL ANALYSIS:										
I-131	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 8.	E-03	LT. 7.	E-03
GAMMA SPECTRUM ANALYSIS:										
BE-7	1.19±0.12	E 00	1.46±0.15	E 00	1.36±0.14	E 00	3.05±0.31	E 00	2.04±0.20	E 00
K-40	5.57±0.56	E 00	4.42±0.44	E 00	9.05±0.90	E 00	9.88±0.99	E 00	5.24±0.52	E 00
MN-54	LT. 9.	E-03	LT. 2.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02
CO-58	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02
FE-59	LT. 2.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 4.	E-02	LT. 4.	E-02
CO-60	LT. 1.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
ZN-65	LT. 2.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 4.	E-02
ZR-95	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
RU-103	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
RU-106	LT. 9.	E-02	LT. 1.	E-01	LT. 1.	E-01	LT. 1.	E-01	LT. 1.	E-01
I-131	LT. 2.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02
CS-134	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
CS-137	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
BA-140	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02
CE-141	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 2.	E-02
CE-144	LT. 5.	E-02	LT. 9.	E-02	LT. 8.	E-02	LT. 9.	E-02	LT. 8.	E-02
RA-226	LT. 2.	E-01	LT. 3.	E-01	LT. 2.	E-01	LT. 3.	E-01	LT. 3.	E-01
TH-228	LT. 2.	E-02	LT. 3.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 2.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 101
STATION 101 - 13.3 MI. 73 DEG. CON.

DATE COLLECTED:	08/15 MILKWEED		08/15 SMARTWEED		08/15 WILD CUCUMBER		09/19 BL 1		09/19 SMARTWEED	
RADIOCHEMICAL ANALYSIS:										
I-131	LT. 8.	E-03	LT. 8.	E-03	LT. 8.	E-03	LT. 8.	E-03	LT. 1.	E-02
GAMMA SPECTRUM ANALYSIS:										
BE-7	2.09±0.21	E 00	2.73±0.27	E 00	1.95±0.19	E 00	1.18±0.15	E 00	3.40±0.34	E 00
K-40	7.92±0.79	E 00	3.50±0.35	E 00	5.23±0.52	E 00	7.64±0.76	E 00	2.79±0.28	E 00
MN-54	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 1.	E-02	LT. 2.	E-02
CO-58	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
FE-59	LT. 3.	E-02	LT. 4.	E-02	LT. 3.	E-02	LT. 4.	E-02	LT. 4.	E-02
CO-60	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02
ZN-65	LT. 4.	E-02	LT. 4.	E-02	LT. 3.	E-02	LT. 4.	E-02	LT. 4.	E-02
ZR-95	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
RU-103	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
RU-106	LT. 1.	E-01	LT. 2.	E-01	LT. 1.	E-01	LT. 1.	E-01	LT. 2.	E-01
I-131	LT. 2.	E-02	LT. 3.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 3.	E-02
CS-134	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
CS-137	LT. 1.	E-02	LT. 2.	E-02	LT. 1.	E-02	LT. 2.	E-02	LT. 2.	E-02
BA-140	LT. 2.	E-02	LT. 3.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 3.	E-02
CE-141	LT. 2.	E-02	LT. 4.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 3.	E-02
CE-144	LT. 8.	E-02	LT. 1.	E-01	LT. 8.	E-02	LT. 1.	E-01	LT. 1.	E-01
RA-226	LT. 2.	E-01	LT. 4.	E-01	LT. 2.	E-01	LT. 4.	E-01	LT. 3.	E-01
TH-228	LT. 2.	E-02	LT. 4.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 3.	E-02

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - INGESTION
VEGETATION - TERRESTRIAL, BROADLEAF
(PCI/GM WET)
STATION NUMBER 101
STATION 101 - 13.3 MI. 73 DEG. CON.

DATE COLLECTED:	09/19 BL 3		09/19 QA BL 1		10/10 SMARTWEED		10/10 GOLDENROD		10/10 CURLY DOCK	
RADIOCHEMICAL ANALYSIS:										
I-131	LT. 7.	E-03	LT. 7.	E-03	LT. 8.	E-03	LT. 1.	E-02	LT. 7.	E-03
GAMMA SPECTRUM ANALYSIS:										
BE-7	1.49±0.15	E 00	8.38±1.41	E-01	3.46±0.35	E 00	4.20±0.42	E 00	5.87±0.78	E-01
K-40	7.61±0.76	E 00	8.43±0.84	E 00	4.74±0.47	E 00	8.61±0.86	E 00	9.06±0.91	E 00
MN-54	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 8.	E-03
CO-58	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 8.	E-03
FE-59	LT. 4.	E-02	LT. 4.	E-02	LT. 4.	E-02	LT. 4.	E-02	LT. 2.	E-02
CO-60	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 1.	E-02
ZN-65	LT. 4.	E-02	LT. 4.	E-02	LT. 5.	E-02	LT. 4.	E-02	LT. 2.	E-02
ZR-95	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 8.	E-03
RU-103	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 8.	E-03
RU-106	LT. 2.	E-01	LT. 2.	E-01	LT. 2.	E-01	LT. 2.	E-01	LT. 7.	E-02
I-131	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 1.	E-02
CS-134	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 9.	E-03
CS-137	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 2.	E-02	LT. 8.	E-03
BA-140	LT. 3.	E-02	LT. 2.	E-02	LT. 3.	E-02	LT. 2.	E-02	LT. 9.	E-03
CE-141	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 3.	E-02	LT. 1.	E-02
CE-144	LT. 1.	E-01	LT. 1.	E-01	LT. 1.	E-01	LT. 1.	E-01	LT. 4.	E-02
RA-226	LT. 3.	E-01	LT. 3.	E-01	LT. 4.	E-01	LT. 4.	E-01	LT. 1.	E-01
TH-228	LT. 3.	E-02	LT. 3.	E-02	LT. 4.	E-02	LT. 3.	E-02	LT. 1.	E-02

L SHORELINE SEDIMENT

NEBRASKA PUBLIC POWER DISTRICT
 COOPER NUCLEAR STATION
 EXPOSURE PATHWAY - AIRBORNE
 SHORELINE SEDIMENT
 (PCI/GM DRY)
 STATION NUMBER 28
 STATION 28 - 1.8 MI. 150 DEG. IND.

DATE COLLECTED:	05/02	10/31	10/31 QA
GAMMA SPECTRUM ANALYSIS:			
BE-7	4.14±0.63 E-01	L.T. 7. E-02	L.T. 8. E-02
K-40	1.83±0.18 E 01	1.77±0.18 E 01	1.78±0.18 E 01
MN-54	9.58±5.44 E-03	1.32±0.45 E-02	1.04±0.57 E-02
CO-58	L.T. 9. E-03	L.T. 8. E-03	L.T. 8. E-03
FE-59	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
CO-60	L.T. 9. E-03	L.T. 9. E-03	L.T. 9. E-03
ZN-65	L.T. 2. E-02	L.T. 2. E-02	L.T. 2. E-02
ZR-95	L.T. 1. E-02	L.T. 1. E-02	L.T. 1. E-02
RU-103	L.T. 1. E-02	L.T. 8. E-03	L.T. 9. E-03
RU-106	L.T. 8. E-02	L.T. 7. E-02	L.T. 8. E-02
I-131	L.T. 3. E-02	L.T. 1. E-02	L.T. 2. E-02
CS-134	L.T. 1. E-02	L.T. 1. E-02	L.T. 1. E-02
CS-137	5.73±0.63 E-02	9.78±0.98 E-02	9.96±1.00 E-02
BA-140	L.T. 3. E-02	L.T. 1. E-02	L.T. 1. E-02
CE-141	L.T. 2. E-02	L.T. 2. E-02	L.T. 1. E-02
CE-144	L.T. 6. E-02	L.T. 6. E-02	L.T. 6. E-02
RA-226	1.80±0.18 E 00	2.04±0.20 E 00	1.84±0.18 E 00
TH-228	L.T. 3. E-02	9.82±0.98 E-01	1.00±0.10 E 00

REFERENCES

1. Nebraska Public Power District, Cooper Nuclear Station Environmental Radiation Monitoring Program, Annual Report, January 1, 1982-December 31, 1982 (prepared by Teledyne Isotopes).
2. Nebraska Public Power District, Cooper Nuclear Station Environmental Radiation Monitoring Program, Annual Report, January 1, 1983-December 31, 1983 (prepared by Teledyne Isotopes).
3. Nebraska Public Power District Cooper Nuclear Station, Environmental Monitoring Program, Annual Report, January 1, 1984 to December 31, 1984. (Prepared by Teledyne Isotopes).
4. U.S. Department of Energy; EML 440 March 1985; EML-444 April 1989; Environmental Measurements Laboratory, US Department of Energy, New York, New York 10014.
5. U.S. Environmental Protection Agency; Environmental Radiation Data, Report 35, July -- September 1983, Report 39, July -- September 1985; Report 40, October -- December 1984; Report 41, January -- March 1985. Report 42, April -- June 1985; Report 43, July-September 1985, Report 44-45, October-March 1986; Report 46, April-June 1986; Report 47, July-September 1986; Report 48, October-December 1986; Report 49, January-March 1987. Environmental Radiation Facility, Montgomery, Alabama.
6. U.S. Department of Energy; EML 460, October 1, 1986; Environmental Measurements Laboratory, US Department of Energy, New York, New York 10014.
7. U.S. Nuclear Regulatory Commission, 1975, Regulatory Guide 4.8, Environmental Technical Specifications for Nuclear Power Plants.

APPENDICES

APPENDIX A
SUMMARY OF LAND USE CENSUS

LAND USE CENSUS

June 29, 1995

0-3 Miles

Cooper Nuclear Station (CNS) Radiological Effluent Technical Specifications (RETS) require an annual land use census. This census identifies the location of the nearest garden that is greater than 500 square feet in area and yields leafy green vegetables, the nearest milk animal, and the location of the nearest resident in each of the 16 meteorological sectors within 3 miles of CNS.

In accordance with CNS RETS, a land use census was performed on June 29, 1995. The nearest garden to CNS is in sector L, 1.3 miles from CNS. The nearest resident to CNS is in sector Q, 0.9 miles from CNS.

No milk animals were found within 3 miles of CNS in 1995 and there was no evidence of potable water use from the river.

LAND USE CENSUS

June 29, 1995

0-3 Miles

SECTOR	NEAREST RESIDENT		NEAREST GARDEN		NEAREST MILK ANIMAL
A	3.0 Miles	1.0°	3.0 Miles	1.0°	NONE
B	2.7 Miles	13.0°	NONE		NONE
C	NONE		NONE		NONE
D	1.7 Miles	62.0°	1.7 Miles	62.0°	NONE
E	1.8 Miles	94.0°	1.8 Miles	94.0°	NONE
F	2.4 Miles	112°	2.4 Miles	112°	NONE
G	NONE		NONE		NONE
H	NONE		NONE		NONE
J	NONE		NONE		NONE
K	NONE		NONE		NONE
L	1.3 Miles	221.0°	1.3 Miles	221.0°	NONE
M	1.3 Miles	251.0°	1.8 Miles	241.0°	NONE
N	1.0 Miles	266.5°	NONE		NONE
P	1.6 Miles	293.5°	1.6 Miles	293.5°	NONE
Q	0.9 Miles	307.0°	2.8 Miles	323.0°	NONE
R	1.9 Miles	335.0°	1.9 Miles	335.0°	NONE

APPENDIX B

INTERLABORATORY COMPARISON PROGRAM

1995

A summary of the Results of the Analyses by Teledyne Brown Engineering -
Environmental Services of the EPA Cross Check Samples

Compared with the Known Activity as reported by the Environmental
Monitoring Systems Laboratory, Las Vegas, Nevada

All results which exceed three sigma deviation from the known are
appended with a note giving the possible cause of the deviation and
corrective action taken.

EPA INTERLABORATORY COMPARISON PROGRAM 1995
Environmental

Collection Date	Media	Nuclide	EPA Result(a)		Teledyne Brown Engineering Result(b)		Deviation(c)
01/13/95	Water	Sr-89	20.0 ±	5.0	19.00 ±	2.65	-0.35
		Sr-90	15.0 ±	5.0	14.00 ±	0.00	-0.35
01/27/95	Water	Gr-Alpha	5.0 ±	5.0	5.00 ±	1.00	0.00
		Gr-Beta	5.0 ±	5.0	6.00 ±	1.00	0.35
02/03/95	Water	I-131	100.0 ±	10.0	88.33 ±	2.31	-2.02 (d)
02/10/95	Water	Ra-226	19.1 ±	2.9	20.67 ±	0.58	0.94
		Ra-228	20.0 ±	5.0	18.67 ±	0.58	-0.46
03/10/95	Water	H-3	7435.0 ±	744.0	7066.67 ±	115.47	-0.86
04/18/95	Water	Gr-Beta	86.6 ±	10.0	80.33 ±	2.52	-1.09
		Sr-89	20.0 ±	5.0	20.67 ±	1.15	0.23
		Sr-90	15.0 ±	5.0	14.67 ±	0.58	-0.12
		Co-60	29.0 ±	5.0	31.67 ±	2.08	0.92
		Cs-134	20.0 ±	5.0	19.67 ±	1.73	-0.12
		Cs-137	11.0 ±	5.0	11.67 ±	1.53	0.23
		Gr-Alpha	47.5 ±	11.9	39.67 ±	2.52	-1.14
		Ra-226	14.9 ±	2.2	15.67 ±	0.58	0.60
		Ra-228	15.8 ±	4.0	13.00 ±	1.73	-1.21
06/09/95	Water	Co-60	40.0 ±	5.0	42.33 ±	2.52	0.81
		Zn-65	76.0 ±	8.0	82.33 ±	3.51	1.37
		Cs-134	50.0 ±	5.0	46.67 ±	2.08	-1.15
		Cs-137	35.0 ±	5.0	37.67 ±	1.15	0.92
		Ba-133	79.0 ±	8.0	74.33 ±	2.08	-1.01
06/16/95	Water	Ra-226	14.8 ±	2.2	15.00 ±	0.00	0.16
		Ra-228	15.0 ±	3.8	14.00 ±	0.00	-0.46
07/14/95	Water	Sr-89	20.0 ±	5.0	18.33 ±	1.53	-0.58
		Sr-90	8.0 ±	5.0	8.0 ±	0.00	0.00
07/21/95	Water	Gr-Alpha	27.5 ±	6.9	18.33 ±	1.53	-2.30 (e)
		Gr-Beta	19.4 ±	5.0	19.33 ±	1.53	-0.02
08/04/95	Water	H-3	4872.0 ±	487.0	4866.67 ±	152.75	-0.02
09/15/95	Water	Ra-226	24.8 ±	3.7	27.33 ±	1.15	1.19
		Ra-228	20.0 ±	5.0	14.67 ±	0.58	-1.85
10/06/95	Water	I-131	148.0 ±	15.0	150.0 ±	0.00	0.23

Note: Footnotes are located at end of table.

EPA INTERLABORATORY COMPARISON PROGRAM 1995
Environmental

Collection Date	Media	Nuclide	EPA Result(a)	Teledyne Brown Engineering Result(b)	Deviation(c)
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Footnotes:

- (a) EPA Results-Expected laboratory precision (1 sigma). Units are pCi/liter for water and milk except K is in mg/liter. Units are total pCi for air particulate filters.
- (b) Teledyne Results - Average \pm one sigma. Units are pCi/liter for water and milk except K is in mg/liter. Units are total pCi for air particulate filters.
- (c) Normalized deviation from the known.
- (d) The normalized deviation marginally exceeded the warning level and an apparent trend in the results appeared. The cause was a probable high bias in the beta counting efficiency. Check source control charts did not indicate any changes in the counting equipment, so the I-131 calibration was suspected. New I-131 calibrations were performed July 3 through 6, 1995 after receiving a new standard from the EPA. The intercomparison sample data sheets were recalculated with the new efficiencies and the average result was in excellent agreement with the EPA (96 pCi/l versus the EPA value of 100 pCi/l). The discrepancy in the I-131 efficiency between the current calibration and the previous one (aside from the uncertainty in the standard) appears to be an abnormally low yield in the preparation of the standard for the older calibration which created a high bias in the counter efficiencies. The bias was less than ten percent, therefore further corrective action or revision of previously reported data is deemed not necessary.
- (e) The mineral salt content of the water used by the EPA to prepare the samples has been shown to vary substantially throughout the year. Absorption curves to account for mount weight may vary from the true absorption characteristics of a specific sample. Previous results do not indicate a trend toward "out of control" for gross alpha/beta analysis and the normalized deviation from the grand average is only -0.36. The normalized deviation from the known for TBE-ES does not exceed three standard deviations and internal spikes have been in control. No corrective action is planned at this time.

APPENDIX C
STATISTICAL NOTES

APPENDIX C
STATISTICAL NOTES

1. Each activity is reported in one of two forms:

$$x \pm s \text{ or}$$

$$<L,$$

where

x = value of measurement;

s = counting error at the 95%
confidence level (2 sigma error);

L = detection limit based on 4.66 sigma error
for counter background

2. All activities are corrected to collection time except for gross alpha and gross beta.
3. Computation of means:

- (a) In any statistical table, the values are entered as

$$\bar{x} \pm \bar{s}$$

or $<L$

where

$$\bar{x} = \text{sample mean} = \frac{\sum x}{n};$$

n = number of data points averaged;

$$\bar{s} = \text{average of the 2 sigma counting errors} = \frac{\sum s}{n}$$

- (b) For gross beta and gross alpha results in air particulates, averaging includes values which are less than the lower limits of detection. The detection limit is used as the sample activity in these cases.
- (c) In all cases, if all values in an averaging group are below detection limits, the highest of the detection limits is reported as a "less than" value without an associated tolerance. If some values are above detection limits and some are below, then:

- (1) The mean of the positive results is reported and the number of positives is listed in parentheses.
- (d) Means are reported on a quarterly basis except for air particulate and airborne iodine data which are reported monthly. For air particulate and charcoal filters, data for samples collected on the 1st, 2nd, and 3rd day of a month are assigned to the previous month.
- (e) In rounding off, numbers followed by a 5 or higher digit are rounded upwards.

APPENDIX D
NOTIFICATION LEVELS

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
ENVIRONMENTAL RADIATION SURVEILLANCE PROGRAM
NOTIFICATION LEVELS

Media and Nuclide

Notification Level

Air

Gross Alpha	0.1	pCi/m ³
Gross Beta	1.0	pCi/m ³
I-131	0.31	pCi/m ³
Cs-134	3.3	pCi/m ³
Cs-137	6.7	pCi/m ³

Milk

I-131 (low level)	1.09	pCi/l
Sr-89	6.04	pCi/l
Sr-90	14.82	pCi/l
Cs-134	20.0	pCi/l
Cs-137	23.0	pCi/l

Groundwater

Gross Alpha	12.0	pCi/l
Gross Beta	33.8	pCi/l
H-3	6700	pCi/l
Mn-54	330	pCi/l
Fe-59	130	pCi/l
Co-58	330	pCi/l
Co-60	100	pCi/l
Zn-65	100	pCi/l
Zr-Nb-95	67	pCi/l
I-131	0.67	pCi/l
Cs-134	10	pCi/l
Cs-137	17	pCi/l
Ba-La-140	67	pCi/l

Food Products

I-131	0.1	pCi/g wet
Cs-134	0.33	pCi/g wet
Cs-137	0.66	pCi/g wet

Fish

Gross Beta	10.8	pCi/g wet
Sr-89	3.3	pCi/g wet
Sr-90	1.2	pCi/g wet
Mn-54	10	pCi/g wet

Media and NuclideNotification Level

Fish (Continued)

Fe-59	3.3	pCi/g wet
Co-58	10	pCi/g wet
Co-60	3.3	pCi/g wet
Zn-65	6.7	pCi/g wet
Cs-134	0.33	pCi/g wet
Cs-137	0.67	pCi/g wet

River Water

Gross Alpha Sus	22.0	pCi/l
Gross Alpha Dis	27.6	pCi/l
Gross Beta Sus	58.8	pCi/l
Gross Beta Dis	88.6	pCi/l
Sr-89	1000.0	pCi/l
Sr-90	100.0	pCi/l
H-3	6700	pCi/l
Mn-54	330	pCi/l
Fe-59	130	pCi/l
Co-58	330	pCi/l
Co-60	100	pCi/l
Zn-65	100	pCi/l
Zr-Nb-95	67	pCi/l
I-131	0.67	pCi/l
Cs-134	10	pCi/l
Cs-137	17	pCi/l
Ba-La-140	67	pCi/l

Shoreline Sediment

Co-60	0.1	pCi/g dry
Cs-134	0.75	pCi/g dry
Cs-137	0.75	pCi/g dry

APPENDIX E
CONVENTIONS USED
IN
DATA TREND GRAPHS

APPENDIX E

Conventions used in Data Trend Graphs

1. The data trend plots are based on statistical summaries of Section VI.
2. Monthly or quarterly averages are plotted.
3. The conventions used to determine if a "less than" (<) value or detectable result is plotted are those given in Appendix C.
4. Lowest levels of detection (LLD) are noted by a straight line on the graphs.
5. A typical less-than value arising from delayed counting of short-lived isotopes (such as I-131 or Ba-140) or reduced sample size are omitted.

APPENDIX F

DETECTION CAPABILITIES

DETECTION CAPABILITIES
FOR
ENVIRONMENTAL SAMPLE ANALYSIS
Radiochemical Methods
Lower Limit of Detection

LLD*

	Water (pCi/l)	Milk (pCi/l)	Air Part (pCi/m ³)	Food Products Broadleaf Vegetation ^b (pCi/g wet)	Fish (pci/g wet)
Quantity ^c	0.4 l	-	280 m ³		0.1 g ash
Ash Wt. % ^d	-	-	-		4
α^*	4.0	-	0.002		-
β^*	1.4	-	0.003		0.25
Quantity	2 l	1 l	-		3 g ash
Ash Wt. %	-	-	-		4
Sr-89	1.08	2.02	-		0.03
Sr-90	0.93	1.39	-		0.03
Quantity	-	1 l	280 m ³	20 g	-
I-131	-	0.78	0.05 ^f	0.05	-
H-3	140	-	-	-	-

*LLD - lower limit of detection based on $4.66s_b$; where s_b is the standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (as counts per minute), specified for listed quantity and ash weight percentage.

^bThe minimum sensitivity will vary with the weight reduction achieved by ashing the sample. Minimum sensitivities for three typical ash weight percentages are specified.

^cTypical analysis quantity.

^dTypical ash weight percentage of wet weight.

^eListed α and β LLD's are for weightless sample. Self-absorption in sample will increase these LLD's. Typical increases will be factors in the range 1 to 1.3 for β analysis and 1-5 for α analysis.

^fIodine collected Charcoal Cartridge air filter.

^aLLD = lower limit of detection based on $4.66s_b$; & where s_b is the standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (as counts per minute). The LLD is at counting time and must be corrected to collection time. The LLDs given above are based on the quantities indicated and the background count rate in the absence of any radionuclides in the sample. In calculating the LLD for a radionuclide determined by gamma-ray spectrometry, the background shall include the typical contributions of other radio-nuclides normally present in the samples (e.g., potassium-40 in milk samples).

Occasionally background fluctuations, unavoidably small sample sizes, the presence of interfering nuclides, or other uncontrollable circumstances may render these LLD's unachievable. In such cases, the contributing factors will be identified and described in the Environmental Radiation Monitoring Program Annual Report.

Note: All LLD's which we require are listed in this table for Ge(Li) Gamma Spectroscopy. If any nuclide is detected, it shall be reported quantitatively whether or not it is one of the 20 nuclides listed above.

LOWER LIMITS OF DETECTION (LLD)
OF
ANALYSIS FOR Ge (Li) DETECTOR

LLD^a

		Milk, Water (pCi/ℓ)	Air Part (pCi/m ³)	Fish, (pCi/kg wet)	Food Products (pCi/kg wet)	Shoreline Sediment (pCi/kg dry)
Quantity:		3.5 ℓ	3600 m ³	400 g wet	200 g wet	600 g dry
Isotope	Half-life					
Be-7	53.2 d	78	0.05	311	1243	233
K-40	1.26x10 ⁹ y	140	0.06	466	932	466
Mn-54	313 d	8	0.003	31	124	31
Co-58	70.8 d	8	0.003	31	124	16
Fe-59	45 d	30	0.006	260	311	31
Co-60	5.26 y	8	0.005	31	124	47
Zn-65	245 d	30	0.003	260	311	31
Nb-95	35.2 d	9	0.003	31	124	31
Zr-95	65 d	9	0.005	47	93	78
Ru-103	39.4 d	8	0.003	31	124	47
Ru-106	368 d	62	0.03	311	1243	233
I-131	8.04 d	9	0.003	31	60	31
Cs-134	2.06 y	9	0.003	31	60	47
Cs-137	30.2 y	9	0.003	31	80	31
Ba-140	12.8 d	15	0.09	109	621	233
La-140	40.2 h	15	0.09	109	621	233
Ce-141	32.5 d	16	0.003	47	155	47
Ce-144	284 d	78	0.01	155	621	233
Ra-226	1600 y	100	0.08	200	800	109
Th-228	1.91 y	31	0.01	93	466	109

^aLLD = lower limit of detection based on $4.66s_b$; and where s_b is the standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (as counts per minute). The LLD is at counting time and must be corrected to collection time. The LLDs given above are based on the quantities indicated and the background count rate in the absence of any radionuclides in the sample. In calculating the LLD for a radionuclide determined by gamma-ray spectrometry, the background shall include the typical contributions of other radio-nuclides normally present in the samples (e.g., potassium-40 in milk samples).

Occasionally background fluctuations, unavoidable small sample size, the presence of interfering nuclides, or other uncontrollable circumstances may render these LLD's unachievable. In such cases, the contributing factors will be identified and described in the Environmental Radiation Monitoring Program Annual Report.

Note: All LLD's which we require are listed in this table for Ge(Li) Gamma Spectroscopy. If any nuclide is detected, it shall be reported quantitatively whether or not it is one of the 20 nuclides listed above.

APPENDIX G

SAMPLE STATION LOCATIONS AND SAMPLE TYPES

**COOPER NUCLEAR STATION
LIST OF ACTIVE SAMPLE STATIONS
1995**

<u>Sample Station*</u>	<u>Sample Description -- Type and Location</u>
No. 1	<p>Type: (1) Air Particulate and Charcoal Filters (2) Environmental Thermoluminescent Dosimetry</p> <p>Location: Outside the northwest edge of fence, east of the gate to the LLRW storage pad on the CNS site, NW$\frac{1}{4}$, S32, T5N, R16E, Nemaha County, Nebraska.</p>
No. 2	<p>Type: (1) Air Particulate and Charcoal Filters (2) Environmental Thermoluminescent Dosimetry</p> <p>Location: North side of county road access to the south portion of CNS site approximately 275 feet west of the former Jefferson Broady farmstead, SW$\frac{1}{4}$, S32, T5N, R16E, Nemaha County, Nebraska.</p>
No. 3	<p>Type: (1) Air Particulate and Charcoal Filters (2) Environmental Thermoluminescent Dosimetry</p> <p>Location: Located on the north side of the Brownville State Recreation Park access road near water gauging station, SE$\frac{1}{4}$, S18, T5N, R16E, Nemaha County, Nebraska.</p>
No. 4	<p>Type: (1) Air Particulate and Charcoal Filters (2) Environmental Thermoluminescent Dosimetry</p> <p>Location: Located $\frac{1}{2}$ mile south of Phelps City, Missouri, on west side of Highway "U", NE$\frac{1}{4}$, S2, T64N, R42W, Atchison County, Missouri.</p>
No. 5	<p>Type: (1) Air Particulate and Charcoal Filters (2) Environmental Thermoluminescent Dosimetry</p> <p>Location: Located $\frac{1}{2}$ mile south and $\frac{1}{2}$ mile east of Langdon, Missouri, on north side of road, west of railroad tracks, SW$\frac{1}{4}$, S18, T64N, R41W, Atchison County, Missouri.</p>
No. 6	<p>Type: (1) Air Particulate and Charcoal Filters (2) Environmental Thermoluminescent Dosimetry</p> <p>Location: One mile west of the end of Missouri State Highway "U", south side of road, SW corner of the intersection, NW$\frac{1}{4}$, S34, T64N, R42W, Atchison County, Missouri.</p>
No. 7	<p>Type: (1) Air Particulate and Charcoal Filters (2) Environmental Thermoluminescent Dosimetry</p> <p>Location: 300 yards east of Highway 67 on north side of road, west of Nemaha elevator, SW$\frac{1}{4}$, S6, T4N, R16E, Nemaha County, NE</p>
No. 8	<p>Type: (1) Air Particulate and Charcoal Filters (2) Environmental Thermoluminescent Dosimetry</p> <p>Location: $\frac{1}{2}$ mile north, $\frac{1}{2}$ mile west and $\frac{1}{2}$ mile north of Nemaha, on west side of road adjacent to Mark T. Moore Transmission Line, NE$\frac{1}{4}$, S35, T5N, R15E, Nemaha County, Nebraska.</p>

Sample
Station

Sample Description -- Type and Location

No. 9 Type: (1) Air Particulate and Charcoal Filters
 (2) Environmental Thermoluminescent Dosimetry

 Location: Four miles north of Highway 136, on Highway 67. Then 1 mile east of Highway 67 and 1/4 mile north on west side of road, SW 1/4, S26, T6N, R15E, Nemaha County, Nebraska.

No. 10 Type: (1) Air Particulate and Charcoal Filters
 (2) Environmental Thermoluminescent Dosimetry

 Location: One mile north of Barada, Nebraska, in SW corner of intersection, NE 1/4, S14, T3N, R16E, Richardson County, Nebraska.

No. 11 Type: (1) Water - Ground

 Location: Plant well water supply header at well pits, NW 1/4, S32, T5N, R16E, Nemaha County, Nebraska.

No. 12 Type: (1) Water - River

 Location: Sample (1) is taken from the Missouri River immediately upstream from the Plant Intake Structure (River Mile 532.5). (During periods when unsafe conditions warrant, Station 35 may be used as an alternate upstream collection site.)

No. 20 Type: (1) Environmental Thermoluminescent Dosimetry

 Location: On NNW boundary of NPPD property, approximately 20 yards east of county road, SE 1/4, S30, T5N, R16E, Nemaha county, Nebraska.

No. 28 Type: (1) Water - River
 (2) Fish
 (3) Sediment from Shoreline

 Location: Samples (1) and (3) are taken from the Missouri River or its shore, below the Plant Discharge Flume near River Mile 530. Sample (2) is taken from the Missouri River 1/2 to 3 miles downstream of the plant site.

No. 35 Type: (1) Fish
 (2) Food Products - Broadleaf Vegetation
 (3) Water - River (Alternate Site)

 Location: Sample (1) is taken from the Missouri River about 1 to 3 miles above the CNS intake structure. Sample (2) is taken about 1/4 mile south of the Brownville State Recreation Area in Sector A. During periods when unsafe conditions warrant, Station 35 may be used as an alternate to Station 12 for sample type (3).

No. 42 Type: (1) Milk - Other Producer

 Location: One mile south, 1-1/4 miles east of Barada, Nebraska, south side of county road, NW 1/4, S30, T3N, R17E, Richardson County, Nebraska.

Sample
Station

Sample Description -- Type and Location

- No. 44 Type: (1) Environmental Thermoluminescent Dosimetry
- Location: Two miles south of Auburn stoplight and $\frac{1}{4}$ mile south of Auburn Country Club on Highway 75, then $\frac{1}{4}$ mile east of Highway 75 at fence line north of county road, SE $\frac{1}{4}$, S27, T5N, R14E, Nemaha County, Nebraska.
- No. 47 Type: (1) Water - Ground
- Location: At Falls City municipal water supply well south of Rulo, Nebraska, out of main header flow meter, SW $\frac{1}{4}$, S20, T1N, R18E, Richardson County, Nebraska.
- No. 56 Type: (1) Environmental Thermoluminescent Dosimetry
- Location: 1- $\frac{1}{4}$ miles SW of Langdon, Missouri, on Highway "U", on the right side of the highway (Bill Gebheart farm), NW $\frac{1}{4}$, S23, T64N, R42W, Atchison County, Missouri.
- No. 58 Type: (1) Environmental Thermoluminescent Dosimetry
- Location: Three miles south of Brownville, Nebraska, on county road, at the SE corner of the intersection with the farm road leading to Sample Station No. 2, SE $\frac{1}{4}$, S31, T5N, R16E, Nemaha County, Nebraska.
- No. 59 Type: (1) Environmental Thermoluminescent Dosimetry
- Location: One mile SSE of the CNS Elevated Release Point, 50 yards west of the levee at the south boundary of NPPD property. SE $\frac{1}{4}$, S32, T5N, R16E, Nemaha County, Nebraska.
- No. 61 Type: (1) Milk - Nearest Producer
- Location: One mile west of Brownville, Nebraska, on Highway 136, then 1 mile north on the county road, turn right and proceed approximately $\frac{1}{4}$ mile east, on south side of road (Raymond Gentert dairy), NW $\frac{1}{4}$, S13, T5N, R15E, Nemaha County, Nebraska.
- No. 66 Type: (1) Environmental Thermoluminescent Dosimetry
- Location: Two miles south of Nemaha, Nebraska, on Highway 67 - east side of road (Mrs. Lola Kennedy farm), NW $\frac{1}{4}$, S19, T4N, R16E, Nemaha County, Nebraska.
- No. 67 Type: (1) Environmental Thermoluminescent Dosimetry
- Location: Two miles west of Brownville, Nebraska, on Highway 136, then north 1- $\frac{1}{4}$ miles on county road and east $\frac{1}{4}$ mile, on north side of road (Walter Parkhurst farm), NE $\frac{1}{4}$, S11, T5N, R15E, Nemaha County, Nebraska.
- No. 71 Type: (1) Environmental Thermoluminescent Dosimetry
- Location: Two miles east of Phelps City, Missouri, on Highway 136, then south 1- $\frac{1}{4}$ miles on county road and west $\frac{1}{4}$ mile (Tom Boatman farm), SE $\frac{1}{4}$, S6, T64N, R41W, Atchison County, Missouri.

Sample
Station

Sample Description -- Type and Location

No. 79 Type: (1) Environmental Thermoluminescent Dosimetry
Location: 1- $\frac{1}{4}$ miles south of Brownville, NE, on east side of paved road, NPPD property, SE $\frac{1}{4}$, S30, T5N, R16E, Nemaha County, NE.

No. 80 Type: (1) Environmental Thermoluminescent Dosimetry
Location: 2- $\frac{1}{4}$ miles south of Brownville, east side of paved road, NPPD property, NE $\frac{1}{4}$, S31, T5N, R16E, Nemaha County, NE.

No. 81 Type: (1) Environmental Thermoluminescent Dosimetry
Location: 2- $\frac{3}{4}$ miles south of Brownville, Nebraska, in the NE corner of the intersection of the paved county road and CNS access road, NPPD property, NE $\frac{1}{4}$, S31, T5N, R16E, Nemaha County, NE.

No. 82 Type: (1) Environmental Thermoluminescent Dosimetry
Location: $\frac{1}{4}$ mile south of CNS in a field, on NPPD property, SW $\frac{1}{4}$, S32, T5N, R16E, Nemaha County, Nebraska.

No. 83 Type: (1) Environmental Thermoluminescent Dosimetry
Location: 2- $\frac{1}{4}$ miles south of Nemaha, Nebraska, on Highway 67, then east 1 mile to the junction of the driveway and county road (east side of driveway, Leroy Kennedy), NE $\frac{1}{4}$, S19, T4N, R16E, Nemaha County, Nebraska.

No. 84 Type: (1) Environmental Thermoluminescent Dosimetry
Location: 2- $\frac{1}{4}$ miles west of Brownville, Nebraska, south side of Highway 136 west of Locust Grove School (Bruce L. Solie), NW $\frac{1}{4}$, S22, T5N, R15E, Nemaha County, NE.

No. 85 Type: (1) Environmental Thermoluminescent Dosimetry
Location: One mile east of Brownville, Nebraska, on Highway 136, then north $\frac{1}{4}$ mile on the east side of the county road (Scott Leseburg), NE $\frac{1}{4}$, S33, T65N, R42W, Atchison County, Missouri.

No. 86 Type: (1) Environmental Thermoluminescent Dosimetry
Location: One mile west of Phelps City, Missouri, on Highway 136, then north 1- $\frac{1}{4}$ miles on Highway "D" on west side (Mrs. Olin Harmes), SE $\frac{1}{4}$, S22, T65N, R43W, Atchison County, Missouri.

No. 87 Type: (1) Environmental Thermoluminescent Dosimetry
Location: One mile west of Phelps City, MO, on Hwy 136, south $\frac{1}{4}$ mile on county road and $\frac{1}{4}$ mile west on county road (to end of road, Robert Graf), SW $\frac{1}{4}$, S3, T64N, R42W, Atchison County, MO.

No. 88 Type: (1) Environmental Thermoluminescent Dosimetry
Location: One mile west of Phelps City, Missouri, on Highway 136, then south 2 miles at the end of the county road (David Meyerkorth), NW $\frac{1}{4}$, S11, T64N, R42W, Atchison County, Missouri.

Sample
Station

Sample Description -- Type and Location

- No. 89 Type: (1) Environmental Thermoluminescent Dosimetry
Location: 2- $\frac{1}{4}$ miles south of Phelps City, Missouri, on Highway "U",
then $\frac{1}{4}$ mile west in the SE corner of the county road
intersection (Gertrude Rosenbohm), NE $\frac{1}{4}$, S14, T64N, R42W,
Atchison County, Missouri.
- No. 90 Type: (1) Environmental Thermoluminescent Dosimetry
Location: 1- $\frac{1}{4}$ miles west and $\frac{1}{4}$ mile south of Langdon, Missouri, on
Highway "U", then $\frac{1}{4}$ mile west (Garth Green), SW $\frac{1}{4}$, S23, T64N,
R42W, Atchison County, Missouri.
- No. 91 Type: (1) Environmental Thermoluminescent Dosimetry
Location: $\frac{1}{4}$ mile west of Rock Port, Missouri, on the south side of the
intersection of Highway 136 and Highway 275, at the water
tower (Richard H. and Vicki Cook), NW $\frac{1}{4}$, S28, T65N, R41W,
Atchison County, Missouri.
- No. 94 Type: (1) Environmental Thermoluminescent Dosimetry
Location: $\frac{1}{4}$ mile south of Langdon, Missouri, on the west side of the
road (Max Peeler), NE $\frac{1}{4}$, S24, T64N, R42W, Atchison County,
Missouri.
- No. 96 Type: (1) Food Products - Broadleaf Vegetation
Location: Approximately 1 mile south of Brownville, Nebraska, along the
paved road in the road ditch, in Sector R, SW $\frac{1}{4}$, S19, T5N,
R16E, Nemaha County, Nebraska.
- No. 99 Type: (1) Milk (Nearest and Other Producer)
Location: 1- $\frac{1}{4}$ miles south of Shubert, Nebraska, on west side of Highway
67 (James Zentner dairy), NE $\frac{1}{4}$, S24, T3N, R15E, Richardson
County, Nebraska.
- No. 100 Type: (1) Milk (Other Producer)
Location: Two miles south and 1 mile west of Shubert, Nebraska (Dick
James dairy), SW $\frac{1}{4}$, S23, T3N, R15E, Richardson County,
Nebraska.
- No. 101 Type: (1) Food Products - Broadleaf Vegetation
Location: 5 $\frac{1}{4}$ miles east and $\frac{1}{4}$ mile north of Rock Port, Missouri, near
the junction of Highway 136 and Highway 59, in Sector D,
encompasses portions of S19 and S30, T65N, R41W, Atchison
County, Missouri.

NOTES:

- (a) Sample Station numbers missing from the sequence are inactive or discontinued Sample Stations.

APPENDIX H

SUMMARY OF DOSES TO A MEMBER OF THE PUBLIC OFF-SITE

Summary of Gaseous Effluent Dose Calculations
DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 1995

COOPER NUCLEAR STATION JANUARY-DECEMBER 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	9.25E-05	9.24E-05	9.26E-05	9.27E-05	9.31E-05	2.53E-04	9.36E-05	2.36E-04
TEEN	9.26E-05	9.24E-05	9.28E-05	9.30E-05	9.36E-05	3.16E-04	9.36E-05	2.36E-04
CHILD	9.30E-05	9.23E-05	9.35E-05	9.35E-05	9.44E-05	5.19E-04	9.36E-05	2.36E-04
INFANT	9.34E-05	9.23E-05	9.46E-05	9.50E-05	9.54E-05	9.98E-04	9.36E-05	2.36E-04

COOPER NUCLEAR STATION JANUARY-DECEMBER 1995
SPECIAL LOCATION # 2 NEAR RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.72E-04	1.72E-04	1.72E-04	1.73E-04	1.73E-04	3.33E-04	1.74E-04	4.25E-04
TEEN	1.72E-04	1.72E-04	1.73E-04	1.73E-04	1.73E-04	3.95E-04	1.74E-04	4.25E-04
CHILD	1.73E-04	1.72E-04	1.73E-04	1.73E-04	1.74E-04	5.96E-04	1.74E-04	4.25E-04
INFANT	1.73E-04	1.72E-04	1.74E-04	1.75E-04	1.75E-04	1.07E-03	1.74E-04	4.25E-04

Summary of Doses to Maximum Individual at the Site Boundary, Resulting from Exposure to
Radioactivity Discharged in Liquid Effluents, January-December 1995, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	2.61 E-05	3.77 E-04	4.53E-04	5.84E-04	2.22E-05	9.76E-05	3.99E-05	4.05E-03
2nd Quarter	1.03 E-05	9.92 E-04	8.79 E-04	7.59 E-04	8.84 E-06	2.61 E-04	9.30 E-05	2.46 E-03
3rd Quarter	6.54 E-06	1.21 E-03	5.20 E-04	4.48 E-04	6.41 E-06	1.61 E-04	5.66 E-05	1.25 E-03
4th Quarter	1.10 E-04	3.71 E-03	1.01 E -02	1.07 E-02	9.40 E-05	2.24 E-03	7.22 E-04	6.90 E-02
Totals for 1995	1.53 E-04	6.29 E-03	1.20 E-02	1.25 E-02	1.31 E-04	2.76 E-03	9.12 E-04	7.68 E-02

APPENDIX I
NON-REMP ANALYSES

APPENDIX I

Six runoff water samples were collected from the LL Waste Pad during 1995. These samples were analyzed for gross alpha and gross beta (suspended and dissolved), and by gamma spectroscopy. These analyses are not part of the regular CNS REMP, and the data contained in this appendix is provided for informational purposes only.

The LL Waste Pad became operational on June 12, 1995. Sampling that was conducted prior to that date was used to establish baseline levels. Runoff samples have been obtained from the area of the LL Waste Pad since that date on a quarterly basis, when available. No sample was collected in the fourth quarter of 1995 due to the unavailability of runoff.

LL WASTE PAD WATER SUMMARY

PATHWAY - WATERBORNE
SAMPLE - WATER - WASTE
UNITS - PCI/LITER

COMPILATION - ANNUAL SUMMARY
CONTROL - STATION 12 - 0.1 ML. 360 DEG. CON.

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION

ANALYSIS	NO	LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES		LOCATION WITH HIGHEST MEAN	CONTROL LOCATION		NON- ROUTINE	REPORTING PERIOD
			MEAN X E-00 RANGE FRACTION	MEAN X E-00 RANGE FRACTION		MEAN X E-00 RANGE FRACTION	MEAN X E-00 RANGE FRACTION		
GR-A DIS	6	4.0	2.3- 005/006	3.6 4.0	005/006 LL WASTE PAD	2.3- 3.6	4.0	0	01/27/95-09/29/95
GR-A SUS	6	4.0	0.99- 004/006	1.3 1.9	004/006 LL WASTE PAD	0.99- 1.3	1.9	0	01/27/95-09/29/95
GR-B DIS	6	1.8	6.8- 006/006	7.8 9.7	006/006 LL WASTE PAD	6.8- 7.8	9.7	0	01/27/95-09/29/95
GR-B SUS	6	1.8	0.65- 005/006	3.9 5.6	005/006 LL WASTE PAD	0.65- 3.9	5.6	0	01/27/95-09/29/95
K-40	6	140.0	106- 001/006	106 106				0	01/27/95-09/29/95
I-131	6	9.00	LT 4.0- 000/006	LT 8.0 LT 8.0				0	01/27/95-09/29/95
CS-137	6	9.00	LT 4.0- 000/006	LT 5.0 LT 5.0				0	01/27/95-09/29/95

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - EFFLUENT
(PCI/LITER)
LL WASTE PAD - WATER

DATE COLLECTED:	01/27		04/21		05/17		06/06		06/27	
RADIOCHEMICAL ANALYSIS:										
GR-A DIS	4.0 ± 1.7	E 00	4.0 ± 1.9	E 00	LT. 2.	E 00	3.9 ± 2.2	E 00	2.3 ± 1.4	E 00
GR-A SUS	1.1 ± 0.6	E 00	1.9 ± 0.9	E 00	9.9 ± 7.4	E-01	LT. 2.	E-01	1.4 ± 0.8	E 00
GR-B DIS	9.7 ± 1.3	E 00	6.8 ± 1.3	E 00	8.0 ± 1.5	E 00	7.5 ± 1.4	E 00	7.0 ± 1.2	E 00
GR-B SUS	3.6 ± 0.8	E 00	5.0 ± 0.9	E 00	4.5 ± 0.9	E 00	6.5 ± 4.4	E-01	5.6 ± 1.0	E 00
GAMMA SPECTRUM ANALYSIS:										
BE-7	LT. 3.	E 01	LT. 2.	E 01	LT. 4.	E 01	LT. 3.	E 01	LT. 4.	E 01
K-40	LT. 5.	E 01	LT. 5.	E 01	LT. 7.	E 01	LT. 1.	E 02	LT. 1.	E 02
MN-54	LT. 3.	E 00	LT. 3.	E 00	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00
CO-58	LT. 3.	E 00	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00
FE-59	LT. 6.	E 00	LT. 6.	E 00	LT. 8.	E 00	LT. 8.	E 00	LT. 8.	E 00
CO-60	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00
ZN-65	LT. 6.	E 00	LT. 5.	E 00	LT. 9.	E 00	LT. 8.	E 00	LT. 9.	E 00
ZR-95	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00
RU-103	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00
RU-106	LT. 3.	E 01	LT. 2.	E 01	LT. 3.	E 01	LT. 3.	E 01	LT. 4.	E 01
I-131	LT. 4.	E 00	LT. 4.	E 00	LT. 8.	E 00	LT. 6.	E 00	LT. 8.	E 00
CS-134	LT. 3.	E 00	LT. 3.	E 00	LT. 4.	E 00	LT. 4.	E 00	LT. 4.	E 00
CS-137	LT. 4.	E 00	LT. 4.	E 00	LT. 5.	E 00	LT. 4.	E 00	LT. 4.	E 00
BA-140	LT. 4.	E 00	LT. 4.	E 00	LT. 6.	E 00	LT. 6.	E 00	LT. 7.	E 00
CE-141	LT. 6.	E 00	LT. 5.	E 00	LT. 9.	E 00	LT. 6.	E 00	LT. 7.	E 00
CE-144	LT. 2.	E 01	LT. 2.	E 01	LT. 4.	E 01	LT. 2.	E 01	LT. 2.	E 01
RA-226	LT. 7.	E 01	LT. 6.	E 01	LT. 1.	E 02	LT. 7.	E 01	LT. 7.	E 01
TH-228	LT. 6.	E 00	LT. 5.	E 00	LT. 9.	E 00	LT. 6.	E 00	LT. 7.	E 00

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - EFFLUENT
(PCI/LITER)
LL WASTE PAD - WATER

DATE COLLECTED: 09/29

RADIOCHEMICAL ANALYSIS:

GR-A DIS	3.8 ± 2.5	E 00
GR-A SUS	L.T. 5.	E-01
GR-B DIS	8.0 ± 1.4	E 00
GR-B SUS	L.T. 8.	E-01

GAMMA SPECTRUM ANALYSIS:

BE-7	L.T. 3.	E 01
K-40	1.06±0.31	E 02
MN-54	L.T. 3.	E 00
CO-58	L.T. 3.	E 00
FE-59	L.T. 7.	E 00
CO-60	L.T. 3.	E 00
ZN-65	L.T. 7.	E 00
ZR-95	L.T. 3.	E 00
RU-103	L.T. 4.	E 00
RU-106	L.T. 3.	E 01
I-131	L.T. 5.	E 00
CS-134	L.T. 3.	E 00
CS-137	L.T. 4.	E 00
BA-140	L.T. 5.	E 00
CE-141	L.T. 7.	E 00
CE-144	L.T. 3.	E 01
RA-226	L.T. 8.	E 01
TH-228	L.T. 7.	E 00

APPENDIX I
NON-REMP ANALYSES

APPENDIX I

Six runoff water samples were collected from the LL Waste Pad during 1995. These samples were analyzed for gross alpha and gross beta (suspended and dissolved), and by gamma spectroscopy. These analyses are not part of the regular CNS REMP, and the data contained in this appendix is provided for informational purposes only.

The LL Waste Pad became operational on June 12, 1995. Sampling that was conducted prior to that date was used to establish baseline levels. Runoff samples have been obtained from the area of the LL Waste Pad since that date on a quarterly basis, when available. No sample was collected in the fourth quarter of 1995 due to the unavailability of runoff.

LL WASTE PAD WATER SUMMARY

PATHWAY - WATERBORNE
SAMPLE - WATER - WASTE
UNITS - PCI/LITER

COMPILATION - ANNUAL SUMMARY
CONTROL - STATION 12 - 0.1 MI. 360 DEG. CON.

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION

ANALYSIS	NO	LIMIT OF DETECTION MEAN X E-00	ALL INDICATOR SAMPLES MEAN X E-00 RANGE FRACTION	LOCATION WITH HIGHEST MEAN STATION FRACTION STATION DESCRIPTION	MEAN X E-00 RANGE FRACTION	CONTROL LOCATION MEAN X E-00 RANGE FRACTION	NON- ROUTINE	REPORTING PERIOD
GR-A DIS	6	4.0	3.6 2.3- 4.0 005/006	005/006 LL WASTE PAD	3.6 2.3- 4.0		0	01/27/95-09/29/95
GR-A SUS	6	4.0	1.3 0.99- 1.9 004/006	004/006 LL WASTE PAD	1.3 0.99- 1.9		0	01/27/95-09/29/95
GR-B DIS	6	1.8	7.8 6.8- 9.7 006/006	006/006 LL WASTE PAD	7.8 6.8- 9.7		0	01/27/95-09/29/95
GR-B SUS	6	1.8	3.9 0.65- 5.6 005/006	005/006 LL WASTE PAD	3.9 0.65- 5.6		0	01/27/95-09/29/95
K-40	6	140.0	106 106- 106 001/006				0	01/27/95-09/29/95
I-131	6	9.00	LT 8.0 LT 4.0- LT 8.0 000/006				0	01/27/95-09/29/95
CS-137	6	9.00	LT 5.0 LT 4.0- LT 5.0 000/006				0	01/27/95-09/29/95

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - EFFLUENT
(PCI/LITER)
LL WASTE PAD - WATER

DATE COLLECTED:	01/27		04/21		05/17		06/06		06/27
RADIOCHEMICAL ANALYSIS:									
GR-A DIS	4.0 ± 1.7	E 00	4.0 ± 1.9	E 00	L.T. 2.	E 00	3.9 ± 2.2	E 00	2.3 ± 1.4 E 00
GR-A SUS	1.1 ± 0.6	E 00	1.9 ± 0.9	E 00	9.9 ± 7.4	E-01	L.T. 2.	E-01	1.4 ± 0.8 E 00
GR-B DIS	9.7 ± 1.3	E 00	6.8 ± 1.3	E 00	8.0 ± 1.5	E 00	7.5 ± 1.4	E 00	7.0 ± 1.2 E 00
GR-B SUS	3.6 ± 0.8	E 00	5.0 ± 0.9	E 00	4.5 ± 0.9	E 00	6.5 ± 4.4	E-01	5.6 ± 1.0 E 00
GAMMA SPECTRUM ANALYSIS:									
BE-7	L.T. 3.	E 01	L.T. 2.	E 01	L.T. 4.	E 01	L.T. 3.	E 01	L.T. 4. E 01
K-40	L.T. 5.	E 01	L.T. 5.	E 01	L.T. 7.	E 01	L.T. 1.	E 02	L.T. 1. E 02
MN-54	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 4. E 00
CO-58	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 4.	E 00	L.T. 4. E 00
FE-59	L.T. 6.	E 00	L.T. 6.	E 00	L.T. 8.	E 00	L.T. 8.	E 00	L.T. 8. E 00
CO-60	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 4.	E 00	L.T. 4.	E 00	L.T. 4. E 00
ZN-65	L.T. 6.	E 00	L.T. 5.	E 00	L.T. 9.	E 00	L.T. 8.	E 00	L.T. 9. E 00
ZR-95	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 4.	E 00	L.T. 4.	E 00	L.T. 4. E 00
RU-103	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 4.	E 00	L.T. 4.	E 00	L.T. 4. E 00
RU-106	L.T. 3.	E 01	L.T. 2.	E 01	L.T. 3.	E 01	L.T. 3.	E 01	L.T. 4. E 01
I-131	L.T. 4.	E 00	L.T. 4.	E 00	L.T. 8.	E 00	L.T. 6.	E 00	L.T. 8. E 00
CS-134	L.T. 3.	E 00	L.T. 3.	E 00	L.T. 4.	E 00	L.T. 4.	E 00	L.T. 4. E 00
CS-137	L.T. 4.	E 00	L.T. 4.	E 00	L.T. 5.	E 00	L.T. 4.	E 00	L.T. 4. E 00
BA-140	L.T. 4.	E 00	L.T. 4.	E 00	L.T. 6.	E 00	L.T. 6.	E 00	L.T. 7. E 00
CE-141	L.T. 6.	E 00	L.T. 5.	E 00	L.T. 9.	E 00	L.T. 6.	E 00	L.T. 7. E 00
CE-144	L.T. 2.	E 01	L.T. 2.	E 01	L.T. 4.	E 01	L.T. 2.	E 01	L.T. 2. E 01
RA-226	L.T. 7.	E 01	L.T. 6.	E 01	L.T. 1.	E 02	L.T. 7.	E 01	L.T. 7. E 01
TH-228	L.T. 6.	E 00	L.T. 5.	E 00	L.T. 9.	E 00	L.T. 6.	E 00	L.T. 7. E 00

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
EXPOSURE PATHWAY - WATERBORNE
WATER - EFFLUENT
(PCI/LITER)
LL WASTE PAD - WATER

DATE COLLECTED: 09/29

RADIOCHEMICAL ANALYSIS:

GR-A DIS	3.8 ± 2.5	E 00
GR-A SUS	L.T. 5.	E-01
GR-B DIS	8.0 ± 1.4	E 00
GR-B SUS	L.T. 8.	E-01

GAMMA SPECTRUM ANALYSIS:

BE-7	L.T. 3.	E 01
K-40	1.06±0.31	E 02
MN-54	L.T. 3.	E 00
CO-58	L.T. 3.	E 00
FE-59	L.T. 7.	E 00
CO-60	L.T. 3.	E 00
ZN-65	L.T. 7.	E 00
ZR-95	L.T. 3.	E 00
RU-103	L.T. 4.	E 00
RU-106	L.T. 3.	E 01
I-131	L.T. 5.	E 00
CS-134	L.T. 3.	E 00
CS-137	L.T. 4.	E 00
BA-140	L.T. 5.	E 00
CE-141	L.T. 7.	E 00
CE-144	L.T. 3.	E 01
RA-226	L.T. 8.	E 01
TH-228	L.T. 7.	E 00

NEBRASKA PUBLIC POWER DISTRICT

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

January 1, 1995 through December 31, 1995

1605030315 39/PP



Nebraska Public Power District

COOPER NUCLEAR STATION
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TELEPHONE (402)825-3811
FAX (402)825-5211

NLS960079

April 29, 1996

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

Subject: Annual Radioactive Materials Release Report
Cooper Nuclear Station
NRC Docket No. 50-298, DPR-46

In accordance with Specification 6.5.1.F of the Cooper Nuclear Station Technical Specifications, the Nebraska Public Power District submits the Cooper Nuclear Station Annual Radioactive Materials Release Report for the period January 1, 1995, through December 31, 1995.

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.

J. H. Mueller
Site Manager

JHM/hch-g:glS(COVLET)
Enclosure

cc: Senior Project Manager w/enclosure
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector w/enclosure
USNRC - Cooper Nuclear Station

Regional Administrator w/enclosure
USNRC - Region IV

NPG Distribution w/o enclosure

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

ANNUAL OPERATING REPORT

RADIOACTIVE EFFLUENTS

January 1, 1995 through December 31, 1995

USNRC Docket 50-298

CONTENTS

Introduction

Appendix A: Source Terms

Appendix B: Meteorology

Appendix C: Dose Calculations

References

INTRODUCTION

This report summarizes meteorological data and doses from radioactive effluents for the Cooper Nuclear Station for the period January through December, 1995. 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, 1995 to December 31, 1995

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 Annual Radioactive Material Release Report - Radioactive Effluents.

Facility Cooper Nuclear Station

License DPR-46

A. Regulatory Limits (NOTE 1)

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. The concentration of radioactive material in water offsite due to radioactive liquid effluents shall not exceed the concentration specified in 10 CFR Part 20.1302 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall not exceed 2×10^{-4} $\mu\text{Ci/ml}$ total activity.
- b. The dose to a member of the public due to radioactive material in liquid effluents offsite shall be limited to the following:
 1. During any calendar quarter: Less than or equal to 1.5 mrem to the total body and less than or equal to 5 mrem to any organ.
 2. During any calendar year: Less than or equal to 3 mrem to the total body and less than or equal to 10 mrem to any organ.

B. Maximum Permissible Concentrations

1. Water - Covered in Section A.2.
- a. 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 or release calculations.

D. Measurements and Approximations of Total Radioactivity

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

1. Gaseous effluents

- a. Fission and activation gases:

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

- b. Iodines:

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

c. Particulates:

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

d. Tritium:

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

2. Liquid effluents

a. Principal gamma emitters and dissolved and entrained gases:

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

b. Tritium:

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

c. Sr-89 and Sr-90:

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

d. Gross alpha:

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

e. Fe-55:

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

E. Batch Releases

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

1. Liquid

- a. Number of batch releases: 195
- b. Total time period for batch releases: 4.99 E+04 minutes
- c. Maximum time period for batch release: 8.28 E+02 minutes
- d. Average time period for batch releases: 2.56 E+02 minutes
- e. Minimum time period for a batch release: 1.70 E+01 minutes
- f. Average stream flow during periods of release of effluent into a flowing stream: 7.92 E+07 liters/minute

2. Gaseous

- a. Number of batch releases: None
- b. Total time period for batch releases: N/A
- c. Maximum time period for a batch release: N/A
- d. Average time period for batch releases: N/A
- e. Minimum time period for a batch release: N/A

F. Abnormal Release

1. Liquid

- a. Number of releases: 0
- b. Total activity released: None

2. Gaseous

- a. Number of releases: 0
- b. Total activity released: None

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

	<u>Unit</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>	<u>EST. TOTAL ERROR %</u>
A. Fission and activation gases						
1. Total release	Ci	1.09 E+01	0.00 E+00	0.00 E+00	7.00 E+00	2.0 E+01
2. Average release rate for period	μCi/sec	1.40 E+00	0.00 E+00	0.00 E+00	8.81 E-01	
B. Iodines						
1. Total iodine 131	Ci	5.14 E-06	1.62E-05	1.48 E-05	6.82 E-06	3.0 E+01
2. Average release rate for period	μCi/sec	6.61 E-07	2.06 E-06	1.86 E-06	8.58 E-07	
C. Particulates						
1. Particulates with half-lives >8 days	Ci	3.32 E-04	0.00 E+00	0.00 E+00	0.00 E+00	5.0 E+01
2. Average release rate for period	μCi/sec	4.27 E-05	0.00 E+00	0.00 E+00	0.00 E+00	
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/sec	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

<u>NUCLIDES RELEASED</u>	<u>UNIT</u>	CONTINUOUS MODE				*BATCH
		<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>	
1. Fission gases.						
krypton-83m	Ci	9.20 E-02	0.00 E+00	0.00 E+00	5.90 E-02	
krypton-85m	Ci	1.70 E-01	0.00 E+00	0.00 E+00	1.10 E-01	
krypton-85	Ci	5.10 E-01	0.00 E+00	0.00 E+00	3.30 E-01	
krypton-87	Ci	5.40 E-01	0.00 E+00	0.00 E+00	3.50 E-01	
krypton-88	Ci	5.40 E-01	0.00 E+00	0.00 E+00	3.50 E-01	
krypton-89	Ci	2.50 E+00	0.00 E+00	0.00 E+00	1.60 E+00	
xenon-133m	Ci	7.60 E-03	0.00 E+00	0.00 E+00	4.90 E-03	
xenon-133	Ci	3.90 E-01	0.00 E+00	0.00 E+00	2.50 E-01	
xenon-135m	Ci	1.80 E-01	0.00 E+00	0.00 E+00	1.20 E-01	
xenon-135	Ci	6.70 E-01	0.00 E+00	0.00 E+00	4.30 E-01	
xenon-137	Ci	3.10 E+00	0.00 E+00	0.00 E+00	2.00 E+00	
xenon-138	Ci	2.20 E+00	0.00 E+00	0.00 E+00	1.40 E+00	
Total for period	Ci	1.09 E+01	0.00 E+00	0.00 E+00	7.00 E+00	

TABLE 1B (CONTINUED)
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-ELEVATED RELEASE

<u>NUCLIDES RELEASED</u>	<u>UNIT</u>	CONTINUOUS MODE				*BATCH
		<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>	
2. Iodines.						
Iodine-131	Ci	5.14 E-06	1.61 E-05	1.48 E-05	6.82 E-06	
Total for period	Ci	5.14 E-06	1.61 E-05	1.48 E-05	6.82 E-06	
* No batch discharges were made						
3. Particulates.						
cesium-138	Ci	3.20 E-04	0.00 E+00	0.00 E+00	0.00 E+00	
rubidium-88	Ci	1.24 E-05	0.00 E+00	0.00 E+00	0.00 E+00	
Total for period	Ci	3.32 E-04	0.00 E+00	0.00 E+00	0.00 E+00	
* No batch discharges were made						

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

<u>NUCLIDES RELEASED</u>	<u>UNIT</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
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
xexon-133	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
xexon-135m	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
xexon-135	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
xexon-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	0.00 E+00	1.10 E-07	0.00 E+00	0.00 E+00
Iodine-133	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	1.10 E-07	0.00 E+00	0.00 E+00
3. Particulates.					
Total for period	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00

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

	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	<u>EST. TOTAL ERROR %</u>
A. Fission and activation products.						
1. Total release (not including tritium, gases, alpha)	Ci	1.15 E-01	1.09 E-01	5.96 E-02	1.05 E+00	2.0 E+01
2. Average diluted concentration during period	μCi/ml	7.57 E-09	4.34 E-09	2.17 E-09	1.21 E-07	
B. Tritium.						
1. Total release	Ci	3.16 E+00	6.95 E+01	9.11 E-01	1.58 E+00	2.0 E+01
2. Average diluted concentration during period	μCi/ml	2.08 E-07	2.77 E-06	3.31 E-08	1.82 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	7.42 E-05	0.00 E+00	0.00 E+00	0.00 E+00	5.0 E+01
E. Volume of waste released (prior to dilution).	liters	5.69 E+06	1.82 E+06	2.63 E+06	2.92 E+06	1.0 E+01
F. Volume of dilution water used during period.	liters	1.52 E+10	2.51 E+10	2.75 E+10	8.68 E+09	1.0 E+01

TABLE 2B
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
LIQUID EFFLUENTS

<u>NUCLIDES RELEASED</u>	<u>UNIT</u>	<u>CONTINUOUS MODE</u>				<u>*BATCH</u>
		<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>	
manganese-54	Ci	1.75 E-02	9.44 E-03	4.09 E-03	2.06 E-01	
iron-55	Ci	0.00 E+00	5.18 E-03	0.00 E+00	4.36 E-02	
cobalt-58	Ci	2.25 E-04	1.74 E-04	2.34 E-04	4.96 E-02	
cobalt-60	Ci	9.45 E-02	8.39 E-02	4.44 E-02	7.18 E-01	
strontium-89	Ci	8.11 E-04	2.40 E-03	5.05 E-03	1.64 E-04	
cesium-134	Ci	0.00 E+00	2.19 E-04	0.00 E+00	7.29 E-04	
cesium-137	Ci	1.43 E-03	4.90 E-03	3.08 E-03	1.52 E-02	
sodium-24	Ci	0.00 E+00	1.63 E-04	2.52 E-03	2.20 E-04	
silver-110m	Ci	0.00 E+00	2.51 E-03	2.69 E-04	1.19 E-02	
antimony-125	Ci	3.29 E-04	0.00 E+00	0.00 E+00	0.00 E+00	
iron-59	Ci	0.00 E+00	0.00 E+00	0.00 E+00	3.74 E-03	
Total for period above	Ci	1.15 E-01	1.09 E-01	5.96 E-02	1.05 E+00	
xenon-133	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	
xexon-135	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	

* No continuous mode discharges made

TABLE 3
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
PERIOD January 1, 1995, TO December 31, 1995

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not Irradiated Fuel).

1. Type of Waste

	UNIT	<u>12 MONTH</u> <u>PERIOD</u>	<u>EST. TOTAL</u> <u>ERROR%</u>
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³ Ci	3.81 E+01 4.05 E+02	1.5E+01
b. Dry compressible waste, contaminated equip, etc.	m ³ Ci	1.34 E+01 6.33 E-02	2.5E+01
c. Irradiated components, control rods, etc.	m ³ Ci		
d. Other.	m ³ Ci		

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

a. americium-241	3.97 E-06
carbon-14	1.48 E-01
cesium-137	1.92 E-01
chromium-51	4.69 E+01
cobalt-58	4.52 E+00
cobalt-60	2.19 E+01
curium-242	1.01 E-05
curium-243/244	1.55 E-05
iodine 129	2.20 E-02
iron-55	1.64 E+01
manganese-54	7.36 E+00
nickel-59	1.64 E-02
nickel-63	9.11 E-01
plutonium-238	3.38 E-06
plutonium-239/240	7.97 E-07
plutonium-241	3.55 E-04
silver-110m	8.81 E-01
strontium-89	1.16 E-01
strontium-90	3.63 E-03
technetium-99	7.95 E-03
tritium	2.34 E-03
zinc-65	5.75 E-01

b. antimony-125	2.81 E-01
carbon-14	2.80 E-02
cesium-134	2.64 E-01
cesium-137	2.31 E+00
chromium-51	6.52 E+00
cobalt-57	1.11 E-03
cobalt-58	1.25 E+00
cobalt-60	3.31 E+01
iodine-129	3.16 E-04
iron-55	4.85 E+01
lanthanum-140	1.57 E-01
manganese-54	5.25 E+00
nickel-63	9.08 E-01
silver-110m	4.66 E-01
strontium-89	1.91 E-02
strontium-90	1.58 E-04
technetium-99	3.16 E-04
tritium	3.07 E-01
zinc-65	6.29 E-01

3. SOLID WASTE DISPOSAL

<u>NUMBER OF SHIPMENTS</u>	<u>MODE OF TRANSPORTATION</u>	<u>DESTINATION</u>
28	Exclusive Use Vehicle	Barnwell, SC

4. SOLIDIFICATION AGENT

No shipments required solidification during this period.

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>NUMBER OF SHIPMENTS</u>	<u>MODE OF TRANSPORTATION</u>	<u>DESTINATION</u>
0	N/A	N/A

GASEOUS RADIOACTIVE WASTES

CUMULATIVE DOSE DATA

A.	Maximum gamma air dose	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
	Site boundary	(0.67 miles North)	(0.69 miles NNW)	(0.67 mi N)		
1.	Total mrad	7.76E-5	0.00E+0	0.00E+0	6.28E-5	1.37E-4
2.	Percent of Technical Specification Limit %	0.00	0.00	0.00	0.00	0.00
	Most Exposed Resident	(0.90 miles Northwest)		
1.	Total mrad	2.51E-4	0.00E+0	0.00E+0	1.16E-4	2.56E-4
2.	Percent of Technical Specification Limit %	0.01	0.00	0.00	0.00	0.00
B.	Maximum beta air dose					
	Site boundary	(0.67 miles North)	(0.69 miles NNW)	(0.67 mi N)		
1.	Total mrad	7.75E-5	0.00E+0	0.00E+0	6.26E-5	1.40E-4
2.	Percent of Technical Specification Limit %	0.00	0.00	0.00	0.00	0.00
	Most Exposed Resident	(0.90 miles Northwest)		
1.	Total mrad	2.28E-4	0.00E+0	0.00E+0	1.14E-4	2.48E-4
2.	Percent of Technical Specification Limit %	0.00	0.00	0.00	0.00	0.00
C.	Maximum organ dose due to I-131, I-133, and particulates (>8 day half lives)					
	Site boundary	(0.67 miles North)	(0.69 miles NNW)	(0.67 mi N)		
1.	Total mrem	1.49E-4	2.68E-4	1.25E-4	1.67E-4	1.08E-3
2.	Percent of Technical Specification Limit %	0.00	0.00	0.00	0.00	0.01
3.	Organ	Thyroid	Thyroid	Thyroid	Thyroid	Thyroid
4.	Exposed Individual	Infant	Infant	Infant	Infant	Infant
	Most Exposed Resident	(0.90 miles Northwest)		
1.	Total mrem	2.14E-4	3.70E-4	8.43E-6	2.10E-4	1.08E-3
2.	Percent of Technical Specification Limit %	0.00	0.00	0.00	0.00	0.01
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 1.08 E-03 mrem/year which was 0.01% 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

A. Maximum whole body dose			<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	<u>Annual</u>
1. Total	mrem		5.84E-4	7.59E-4	4.48E-4	1.07E-2	1.25E-2
2. Percent of Technical Specification Limit	%		0.04	0.05	0.03	0.71	0.42
B. Maximum organ dose							
1. Total	mrem		4.05E-3	2.46E-3	1.25E-3	6.90E-2	7.68E-2
2. Percent of Technical Specification Limit	%		0.08	0.05	0.03	1.38	0.77
C.		All radioactive liquid effluents were diluted, at time of discharge to concentrations below the concentrations specified in 10 CFR Part 20.106 for radionuclides other than dissolved and entrained noble gases. For dissolved and entrained noble gases the concentrations were diluted below 2.00 E-04 uCi/ml total activity.					

SUPPLEMENTAL INFORMATION

A. Unplanned Releases:

None.

B. District Initiated Changes to the Process Control Program:

None.

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

None.

D. Technical Specifications Violation:

Cooper Nuclear Station Technical Specifications require that a grab sample be taken once per day and analyzed within 24 hours whenever a radioactive gaseous effluent monitor is inoperable. On February 2, 1995, the Elevated Release Point gaseous effluent monitor was inoperable and a grab sample was not taken and analyzed as required.

The reactor had been in cold shutdown since late May of 1994 and no gaseous effluents were being generated at the time that the Elevated Release Point gaseous effluent monitor was inoperable. Review of analysis performed on this gaseous effluent point revealed that no noble gases were released during the time that the reactor was in cold shutdown. Based on these facts, the safety significance of this missed grab sample and analysis, is considered insignificant.

Cooper Nuclear Station Technical Specifications require that if a minimum number of instrument channels are not returned to operable status within 31 days, an explanation as to why the affected instrument was not repaired in a timely manner is to be included in the next Annual Radioactive Materials Release Report, in lieu of any other report. On December 13, 1995, a condition report was initiated to document that the Service Water (SW) Radiation Monitor had been determined to be inoperable for greater than 31 days. The monitor had been declared inoperable November 10, 1995, due to the leaking of the SW sample valves. When work was started, more repair was needed than expected. As a result, the repairs were not completed within the 31-day LCO period, and the monitor was not restored to operable status until December 18, 1995.

APPENDIX B

METEOROLOGY

CONTENTS

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ATMOSPHERIC DIFFUSION MODEL	B324

METEOROLOGICAL DATA SUMMARIES

Meteorological data collected onsite for the period January 1, 1995, through December 31, 1995, 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.

		<u>Lowest Data Recovery</u>	<u>Average Data Recovery</u>
January 1 - March 31, 1995	(Q1)	75.9%	95.2%
April 1 - June 30, 1995	(Q2)	12.9%	84.6%
First Semiannual Period - January 1 - June 30, 1995	(SEM1)	44.2%	89.9%
July 1 - September 30, 1995	(Q3)	3.8%	80.0%
October 1 - December 31, 1995	(Q4)	84.2%	93.4%
Second Semiannual Period - July 1 - December 31, 1995	(SEM2)	45.4%	86.7%
Annual Period - January 1 - December 31, 1995	(ANN)	44.8%	88.3%

WIND AT 100-METER LEVEL AND 10-METER LEVEL

	<u>Predominant Wind Direction at 100m Level</u>	<u>Predominant Wind Direction at 10m Level</u>
Q1	NorthNorthwest 17.2%	NorthNorthwest 15.5%
Q2	Southeast 23.0%	NorthNorthwest 11.4%
SEM1	NorthNorthwest 14.9%	NorthNorthwest 13.5%
Q3	South 33.0%	South 19.2%
Q4	South 12.1%	SouthSoutheast 12.1%
SEM2	South 13.1%	South 15.3%
ANN	NorthNorthwest 12.0%	South 12.8%

	<u>Mean Wind Speed at 100m Level</u>	<u>Mean Wind Speed at 10m Level</u>
Q1	13.7 MPH	8.4 MPH
Q2	13.8 MPH	8.2 MPH
SEM1	13.7 MPH	8.3 MPH
Q3	11.4 MPH	6.1 MPH
Q4	13.9 MPH	7.6 MPH
SEM2	12.7 MPH	6.9 MPH
ANN	13.2 MPH	7.6 MPH

	<u>Maximum Hourly Average Wind Speed/(Date at 100m Level)</u>	<u>Maximum Hourly Average Wind Speed/(Date at 10m Level)</u>
Q1	33.6 MPH/(95/03/26)	26.4 MPH/(95/03/26)
Q2	42.6 MPH/(95/04/18)	32.5 MPH/(95/04/18)
SEM1	42.6 MPH/(95/04/18)	32.5 MPH/(95/04/18)
Q3	31.1 MPH/(95/09/29)	19.3 MPH/(95/09/30)
Q4	37.0 MPH/(95/10/23)	25.9 MPH/(95/12/08)
SEM2	37.0 MPH/(95/10/23)	25.9 MPH/(95/12/08)
ANN	42.6 MPH/(95/04/18)	32.5 MPH/(95/04/18)

TEMPERATURE AT 10-METER LEVEL

	<u>Mean Hourly Average Temperature</u>	<u>Average Daily Maximum</u>	<u>Average Daily Minimum</u>
Q1	0.7 Degrees Celsius	5.9 Degrees Celsius	-3.5 Degrees Celsius
Q2	16.0 Degrees Celsius	20.0 Degrees Celsius	11.7 Degrees Celsius
SEM1	8.0 Degrees Celsius	13.0 Degrees Celsius	4.1 Degrees Celsius
Q3	22.2 Degrees Celsius	27.2 Degrees Celsius	18.3 Degrees Celsius
Q4	5.1 Degrees Celsius	9.7 Degrees Celsius	0.4 Degrees Celsius
SEM2	12.5 Degrees Celsius	17.9 Degrees Celsius	8.8 Degrees Celsius
ANN	10.1 Degrees Celsius	15.4 Degrees Celsius	6.4 Degrees Celsius

	<u>Maximum Temperature (Date)</u>	<u>Minimum Temperature (Date)</u>
Q1	25.4 Degrees Celsius (95/02/25)	-21.1 Degrees Celsius (95/01/07)
Q2	33.0 Degrees Celsius (95/06/21)	-3.9 Degrees Celsius (95/04/04)
SEM1	33.0 Degrees Celsius (95/06/21)	-21.1 Degrees Celsius (95/01/07)
Q3	40.7 Degrees Celsius (95/07/12)	-0.2 Degrees Celsius (95/09/22)
Q4	31.0 Degrees Celsius (95/10/12)	-17.4 Degrees Celsius (95/12/09)
SEM2	40.7 Degrees Celsius (95/07/12)	-17.4 Degrees Celsius (95/12/09)
ANN	40.7 Degrees Celsius (95/07/12)	-21.1 Degrees Celsius (95/01/07)

PRECIPITATION

	<u>Total Precipitation</u>	<u>Maximum Daily Precipitation Total/(Date)</u>	<u>Maximum Hourly Precipitation Total/(Date)</u>
Q1	3.75 Inches	1.40 Inches (95/03/25)	0.30 Inches (95/03/25)
Q2	19.50 Inches	2.00 Inches (95/06/08)	1.60 Inches (95/06/08)
SEM1	23.25 Inches	2.00 Inches (95/06/08)	1.60 Inches (95/06/08)
Q3	9.80 Inches	2.50 Inches (95/07/04)	0.60 Inches (95/09/12)
Q4	2.55 Inches	0.80 Inches (95/11/01)	0.40 Inches (95/11/01)
SEM2	12.35 Inches	2.50 Inches (95/07/04)	0.60 Inches (95/09/12)
ANN	35.60 Inches	2.50 Inches (95/07/04)	1.60 Inches (95/06/08)

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.

	<u>Unstable Conditions Classes A-C</u>	<u>Neutral Conditions Class D</u>	<u>Stable Conditions Classes E-G</u>
Q1	13%	48%	39%
Q2	22%	50%	28%
SEM1	15%	48%	37%
Q3	16%	38%	46%
Q4	9%	45%	46%
SEM2	10%	44%	46%
ANN	12%	46%	42%

TABLE 1. Meteorological Data Recovery

Data Recovery (% of total Observations)

	January- March 1995	April- June 1995	January- June 1995	July- Sept. 1995	October- Dec. 1995	July- Dec. 1995	January- Dec. 1995
100m wind speed	99.7	98.4	99.0	99.6	99.6	99.6	99.3
100m wind direction	82.5	16.1	49.1	4.7	99.6	52.2	50.7
100m ambient temperature	94.8	97.8	96.3	99.7	92.0	95.8	96.1
60m wind speed	99.7	98.4	99.0	99.7	98.3	99.0	99.0
60m wind direction	99.7	98.4	99.0	99.7	99.5	99.6	99.3
60m ambient temperature	97.6	97.1	97.3	99.7	90.9	95.3	96.3
10m wind speed	99.7	98.4	99.0	99.7	99.4	99.6	99.3
10m wind direction	99.7	98.4	99.0	99.6	97.0	98.3	98.7
10m ambient temperature	96.1	86.4	91.2	68.9	88.9	78.9	85.0
10m dew point	99.7	97.7	98.7	98.4	95.7	97.1	97.9
100m-10m delta T	92.4	85.6	89.0	68.9	87.0	78.0	83.4
100m-60m delta T	93.9	97.1	95.5	99.6	89.4	94.5	95.0
60m-10m delta T	96.1	85.6	90.8	68.9	86.6	77.7	84.2
Precipitation	100.0	99.6	99.8	100.0	100.0	100.0	99.9
100m JFD	75.9	12.9	44.2	3.8	87.0	45.4	44.8
10m JFD	96.1	85.6	90.8	68.8	84.2	76.5	83.6

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, 1995. Summaries for the first quarter, second quarter, third quarter, fourth quarter, and semiannual periods are also provided. The parameters provided are listed below.

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

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

10-Meter Ambient Temperature
and
10-Meter Dew Point Temperature

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 3/31/95

JANUARY

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER	(DEG C)	NUMBER	(DEG C)	NUMBER	(%)	NUMBER	(GM/M3)	NUMBER	(DEG C)
	OBS		OBS		OBS		OBS		OBS	
1	31.	-4.9	31.	-8.1	31.	78.5	31.	3.0	31.	-5.9
2	31.	-5.2	31.	-8.3	31.	79.3	31.	3.0	31.	-6.1
3	31.	-5.3	31.	-8.3	31.	79.4	31.	3.0	31.	-6.2
4	31.	-5.5	31.	-8.5	31.	79.6	31.	2.9	31.	-6.4
5	31.	-5.8	31.	-8.7	31.	79.9	31.	2.8	31.	-6.7
6	31.	-6.0	31.	-8.9	31.	80.1	31.	2.8	31.	-6.9
7	30.	-6.3	30.	-9.2	30.	80.3	30.	2.7	30.	-7.1
8	30.	-6.4	30.	-9.3	30.	80.2	30.	2.7	30.	-7.2
9	30.	-6.3	30.	-9.1	30.	80.6	30.	2.7	30.	-7.1
10	31.	-5.2	31.	-8.6	31.	77.2	31.	2.8	31.	-6.2
11	31.	-4.1	31.	-8.2	31.	73.7	31.	2.9	31.	-5.3
12	31.	-3.0	31.	-7.7	31.	70.6	31.	3.0	31.	-4.5
13	31.	-2.2	31.	-7.4	31.	67.9	31.	3.0	31.	-3.8
14	31.	-1.3	31.	-7.1	31.	65.7	31.	3.1	31.	-3.2
15	31.	-0.6	31.	-6.8	31.	64.2	31.	3.2	31.	-2.7
16	31.	-0.2	31.	-6.7	31.	62.7	31.	3.2	31.	-2.4
17	31.	-0.3	31.	-6.7	31.	63.4	31.	3.2	31.	-2.5
18	31.	-1.0	31.	-6.8	31.	66.0	31.	3.2	31.	-2.9
19	31.	-1.7	31.	-6.7	31.	69.3	31.	3.2	31.	-3.4
20	31.	-2.4	31.	-6.8	31.	71.9	31.	3.2	31.	-3.8
21	31.	-2.8	31.	-7.0	31.	73.5	31.	3.2	31.	-4.2
22	31.	-3.3	31.	-7.2	31.	74.6	31.	3.1	31.	-4.5
23	31.	-3.7	31.	-7.4	31.	76.2	31.	3.1	31.	-4.9
24	31.	-4.1	31.	-7.5	31.	77.2	31.	3.1	31.	-5.1
HOURLY MEAN		-3.7		-7.8		73.8		3.0		-4.9
AVG DAILY MAX		0.7		-4.7		84.3		3.7		-1.4
AVG DAILY MIN		-7.8		-10.9		61.0		2.4		-8.6
ABSOLUTE MAX		13.6		5.5		96.0		6.9		8.0
ABSOLUTE MIN		-21.1		-23.7		40.1		0.8		-21.4
TOTAL OBS	741		741		741		741		741	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 3/31/95

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	27.	0.3	28.	-5.6	27.	64.7	27.	3.4	27.	-1.6
2	27.	0.0	28.	-5.8	27.	65.5	27.	3.3	27.	-2.1
3	27.	-0.3	28.	-6.0	27.	66.1	27.	3.3	27.	-2.3
4	27.	-0.8	28.	-6.1	27.	67.7	27.	3.3	27.	-2.7
5	27.	-1.4	28.	-6.3	27.	69.1	27.	3.2	27.	-3.1
6	26.	-2.0	27.	-6.8	26.	69.6	26.	3.1	26.	-3.7
7	26.	-2.4	27.	-7.1	26.	70.1	26.	3.1	26.	-4.0
8	26.	-2.8	27.	-7.2	26.	70.9	26.	3.0	26.	-4.3
9	27.	-2.0	28.	-6.9	27.	69.0	27.	3.1	27.	-3.7
10	27.	-0.6	28.	-6.6	27.	64.2	27.	3.2	27.	-2.7
11	27.	0.8	28.	-6.7	27.	58.2	27.	3.1	27.	-1.9
12	27.	2.1	28.	-6.8	27.	53.2	27.	3.1	27.	-1.1
13	27.	3.2	28.	-6.8	27.	50.2	27.	3.1	27.	-0.5
14	27.	4.4	28.	-6.7	27.	47.4	27.	3.1	27.	0.2
15	28.	4.9	28.	-6.5	28.	47.7	28.	3.2	28.	0.6
16	27.	5.3	28.	-6.3	27.	46.1	27.	3.1	27.	0.7
17	27.	5.3	28.	-6.2	27.	46.3	27.	3.1	27.	0.8
18	27.	4.6	28.	-6.3	27.	47.9	27.	3.1	27.	0.4
19	27.	3.2	28.	-6.4	27.	51.5	27.	3.1	27.	- .4
20	27.	2.4	28.	-6.4	27.	53.6	27.	3.1	27.	-0.9
21	27.	1.6	28.	-6.4	27.	56.0	27.	3.2	27.	-1.3
22	27.	1.1	28.	-6.4	27.	57.9	27.	3.2	27.	-1.6
23	27.	0.7	28.	-6.3	27.	60.1	27.	3.2	27.	-1.9
24	27.	0.2	28.	-6.2	27.	62.8	27.	3.3	27.	-2.1
HOURLY MEAN		1.2		-6.4		58.9		3.2		-1.6
AVG DAILY MAX		6.7		-2.6		76.4		4.2		2.3
AVG DAILY MIN		-3.8		-9.6		43.3		2.6		-5.3
ABSOLUTE MAX		25.4		8.6		89.7		8.4		17.5
ABSOLUTE MIN		-14.3		-22.5		19.8		0.8		-15.0
TOTAL OBS		646		669		646		646		646

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 3/31/95

MARCH

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	OBS	(DEG C)	OBS	(DEG C)	OBS	(%)	OBS	(GM/M3)	OBS	(DEG C)
1	27.	2.0	31.	-1.0	27.	68.0	27.	4.3	27.	0.0
2	29.	2.3	31.	-2.1	29.	68.9	29.	4.4	29.	0.3
3	29.	2.1	31.	-2.2	29.	69.3	29.	4.4	29.	0.2
4	28.	1.5	31.	-2.2	28.	69.5	28.	4.2	28.	-0.4
5	28.	1.4	31.	-2.2	28.	70.5	28.	4.2	28.	-0.5
6	28.	1.3	31.	-2.3	28.	70.7	28.	4.2	28.	-0.5
7	28.	1.2	31.	-2.4	28.	70.5	28.	4.1	28.	-0.6
8	28.	1.5	31.	-2.2	28.	69.7	28.	4.2	28.	-0.4
9	28.	2.6	31.	-1.8	28.	66.9	28.	4.3	28.	0.4
10	29.	4.2	31.	-1.4	29.	63.6	29.	4.6	29.	1.6
11	29.	5.5	31.	-1.0	29.	60.2	29.	4.7	29.	2.5
12	30.	6.9	31.	-0.7	30.	58.1	30.	5.0	30.	3.5
13	30.	7.7	30.	-0.9	30.	56.1	30.	5.0	30.	4.0
14	30.	8.5	31.	-0.5	30.	53.9	30.	4.9	30.	4.4
15	29.	9.1	31.	-0.6	29.	50.9	29.	4.8	29.	4.6
16	29.	9.5	31.	-0.5	29.	50.0	29.	4.8	29.	4.8
17	29.	9.5	31.	-0.4	29.	50.1	29.	4.9	29.	4.8
18	29.	8.9	31.	-0.5	29.	51.3	29.	4.8	29.	4.5
19	29.	7.8	31.	-0.6	29.	54.3	29.	4.8	29.	3.9
20	29.	6.5	31.	-0.6	29.	58.1	29.	4.8	29.	3.2
21	29.	5.5	31.	-0.8	29.	61.2	29.	4.8	29.	2.6
22	29.	4.6	31.	-0.9	29.	64.1	29.	4.7	29.	2.1
23	28.	3.7	31.	-1.1	28.	65.7	28.	4.6	28.	1.4
24	27.	2.9	31.	-1.3	27.	66.6	27.	4.4	27.	0.7
HOURLY MEAN		4.9		-1.3		61.9		4.6		2.0
AVG DAILY MAX		10.4		1.5		75.4		5.8		5.8
AVG DAILY MIN		1.2		-4.1		48.5		4.1		-0.6
ABSOLUTE MAX		23.8		12.9		89.5		10.5		15.2
ABSOLUTE MIN		-17.1		-21.4		23.7		0.9		-17.7
TOTAL OBS		688		743		688		688		688

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1995

JAN-MAR HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 3/31/95

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	85.	-1.1	90.	-5.2	85.	70.8	85.	3.5	85.	-2.7
2	87.	-1.1	90.	-5.4	87.	71.5	87.	3.6	87.	-2.7
3	87.	-1.3	90.	-5.5	87.	71.9	87.	3.6	87.	-2.9
4	86.	-1.8	90.	-5.6	86.	72.6	86.	3.4	86.	-3.3
5	86.	-2.1	90.	-5.7	86.	73.4	86.	3.4	86.	-3.5
6	85.	-2.4	89.	-6.0	85.	73.8	85.	3.3	85.	-3.8
7	84.	-2.6	88.	-6.1	84.	73.9	84.	3.3	84.	-4.0
8	84.	-2.7	88.	-6.2	84.	73.8	84.	3.3	84.	-4.0
9	85.	-2.0	89.	-5.9	85.	72.4	85.	3.4	85.	-3.5
10	87.	-0.7	90.	-5.5	87.	68.6	87.	3.5	87.	-2.5
11	87.	0.6	90.	-5.3	87.	64.4	87.	3.6	87.	-1.7
12	88.	1.9	90.	-5.0	88.	61.0	88.	3.7	88.	-0.7
13	88.	2.8	89.	-5.0	88.	58.5	88.	3.7	88.	-0.1
14	88.	3.8	90.	-4.7	88.	56.1	88.	3.7	88.	0.4
15	88.	4.3	90.	-4.6	88.	54.6	88.	3.7	88.	0.7
16	87.	4.7	90.	-4.4	87.	53.3	87.	3.7	87.	1.0
17	87.	4.7	90.	-4.4	87.	53.7	87.	3.7	87.	1.0
18	87.	4.1	90.	-4.4	87.	55.5	87.	3.7	87.	0.6
19	87.	3.0	90.	-4.5	87.	58.8	87.	3.7	87.	0.0
20	87.	2.1	90.	-4.6	87.	61.6	87.	3.7	87.	-0.6
21	87.	1.3	90.	-4.7	87.	63.9	87.	3.7	87.	-1.0
22	87.	0.7	90.	-4.8	87.	65.9	87.	3.7	87.	-1.4
23	86.	0.1	90.	-4.9	86.	67.7	86.	3.6	86.	-1.9
24	85.	-0.5	90.	-5.0	85.	69.3	85.	3.5	85.	-2.3
HOURLY MEAN		0.7		-5.1		65.2		3.6		-1.6
AVG DAILY MAX		5.9		-1.9		78.7		4.6		2.2
AVG DAILY MIN		-3.5		-8.2		51.2		3.0		-4.8
ABSOLUTE MAX		25.4		12.9		96.0		10.5		15.2
ABSOLUTE MIN		-21.1		-23.7		19.8		0.8		-21.4
TOTAL OBS		2075		2153		2075		2075		2075

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/95 TO 6/30/95

APRIL

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	26.	8.3	29.	2.1	26.	64.2	26.	5.6	26.	5.5
2	27.	7.6	29.	2.1	27.	66.7	27.	5.6	27.	5.1
3	27.	7.2	29.	2.0	27.	68.4	27.	5.6	27.	4.8
4	26.	6.8	29.	1.9	26.	69.0	26.	5.5	26.	4.5
5	26.	6.3	29.	1.7	26.	70.4	26.	5.4	26.	4.2
6	26.	6.1	29.	1.6	26.	71.2	26.	5.4	26.	4.0
7	27.	6.3	29.	1.5	27.	70.9	27.	5.5	27.	4.2
8	26.	7.1	29.	1.8	26.	67.6	26.	5.4	26.	4.6
9	25.	8.6	29.	2.0	25.	62.7	25.	5.5	25.	5.6
10	24.	10.0	29.	2.2	24.	57.5	24.	5.5	24.	6.3
11	23.	11.6	28.	2.1	23.	51.9	23.	5.4	23.	7.0
12	25.	12.4	28.	1.9	25.	50.0	25.	5.5	25.	7.5
13	25.	13.3	28.	1.6	25.	46.8	25.	5.3	25.	7.8
14	26.	14.3	29.	1.7	26.	44.7	26.	5.4	26.	8.3
15	26.	15.0	29.	1.6	26.	43.2	26.	5.3	26.	8.6
16	26.	15.3	29.	1.7	26.	43.0	26.	5.4	26.	8.8
17	27.	14.8	29.	1.6	27.	44.2	27.	5.3	27.	8.5
18	27.	14.4	29.	1.6	27.	45.6	27.	5.3	27.	8.3
19	26.	13.7	29.	1.7	26.	46.8	26.	5.3	26.	8.0
20	25.	12.4	29.	2.0	25.	50.0	25.	5.5	25.	7.5
21	25.	11.4	29.	2.2	25.	53.7	25.	5.5	25.	7.0
22	25.	10.3	29.	2.4	25.	57.7	25.	5.6	25.	6.6
23	25.	9.5	29.	2.4	25.	60.5	25.	5.7	25.	6.2
24	26.	9.0	29.	2.5	26.	63.4	26.	5.8	26.	6.0
HOURLY MEAN		10.5		1.9		57.2		5.5		6.5
AVG DAILY MAX		15.0		5.3		74.4		6.8		9.1
AVG DAILY MIN		5.5		-1.0		43.7		4.6		3.4
ABSOLUTE MAX		25.3		11.8		88.1		10.1		15.9
ABSOLUTE MIN		-3.9		-13.6		19.2		1.7		-5.8
TOTAL OBS		617		693		617		617		617

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/95 TO 6/30/95

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	26.	13.1	30.	8.6	25.	72.1	25.	8.3	25.	10.5
2	26.	12.6	30.	8.4	25.	73.4	25.	8.2	25.	10.1
3	26.	12.2	30.	8.3	25.	75.0	25.	8.1	25.	9.9
4	25.	12.0	30.	8.1	24.	76.0	24.	8.2	24.	9.8
5	25.	11.7	30.	7.9	24.	76.6	24.	8.1	24.	9.5
6	25.	11.5	30.	7.9	24.	77.4	24.	8.0	24.	9.4
7	25.	12.0	31.	8.1	25.	75.6	25.	8.2	25.	9.9
8	26.	13.0	31.	8.2	26.	71.3	26.	8.2	26.	10.4
9	27.	14.1	31.	8.1	27.	67.2	27.	8.3	27.	10.9
10	28.	14.9	31.	8.1	28.	64.2	28.	8.2	28.	11.3
11	29.	15.6	30.	8.0	28.	60.5	28.	8.1	28.	11.6
12	29.	16.3	30.	7.9	28.	57.4	28.	8.1	28.	11.9
13	29.	17.1	30.	7.9	28.	54.7	28.	8.1	28.	12.3
14	28.	17.9	30.	8.0	27.	51.7	27.	8.1	27.	12.6
15	28.	18.3	30.	8.2	27.	51.1	27.	8.2	27.	12.9
16	27.	18.5	30.	8.2	26.	50.3	26.	8.1	26.	12.8
17	28.	18.3	30.	8.0	27.	50.2	27.	7.9	27.	12.7
18	28.	18.2	31.	8.1	28.	52.3	28.	8.1	28.	12.7
19	28.	17.7	31.	8.4	28.	54.8	28.	8.3	28.	12.6
20	28.	16.7	31.	8.8	28.	59.1	28.	8.5	28.	12.4
21	27.	15.5	31.	9.0	27.	63.3	27.	8.4	27.	11.8
22	27.	14.8	30.	8.8	26.	65.4	26.	8.3	26.	11.4
23	27.	14.2	30.	8.9	26.	68.2	26.	8.4	26.	11.1
24	25.	13.8	30.	8.9	24.	69.6	24.	8.3	24.	10.8
HOURLY MEAN		15.1		8.3		63.7		8.2		11.4
AVG DAILY MAX		18.7		11.0		79.0		9.7		13.3
AVG DAILY MIN		11.4		6.0		50.3		7.2		9.1
ABSOLUTE MAX		27.6		18.4		87.3		15.5		21.6
ABSOLUTE MIN		2.5		-0.2		29.5		4.6		1.5
TOTAL OBS		647		728		631		631		631

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/95 TO 6/30/95

JUNE

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/H3)	NUMBER OBS	(DEG C)
1	27.	20.4	29.	14.8	27.	70.7	27.	12.6	27.	17.1
2	27.	19.9	29.	14.4	27.	71.3	27.	12.4	27.	16.7
3	26.	19.6	29.	14.2	26.	71.6	26.	12.3	26.	16.5
4	26.	19.2	29.	14.1	26.	72.8	26.	12.2	26.	16.2
5	25.	18.7	29.	13.9	25.	73.4	25.	11.9	25.	15.8
6	26.	18.6	30.	13.8	26.	73.8	26.	11.9	26.	15.8
7	25.	19.3	30.	13.9	25.	71.4	25.	12.0	25.	16.2
8	22.	20.5	30.	14.0	22.	66.0	22.	11.9	22.	16.6
9	22.	21.9	30.	14.2	22.	61.4	22.	12.0	22.	17.2
10	22.	23.4	30.	14.2	22.	56.2	22.	11.9	22.	17.7
11	23.	24.0	30.	13.9	23.	52.8	23.	11.5	23.	17.7
12	24.	24.2	30.	13.7	24.	52.1	24.	11.4	24.	17.7
13	24.	24.7	30.	13.7	24.	50.6	24.	11.3	24.	17.8
14	25.	25.3	30.	13.7	25.	49.5	25.	11.4	25.	18.1
15	25.	25.3	30.	13.8	25.	49.6	29.	11.4	25.	18.1
16	25.	25.4	30.	13.7	25.	49.2	25.	11.4	25.	18.1
17	27.	25.4	30.	13.8	27.	50.3	27.	11.6	27.	18.3
18	30.	25.8	30.	13.9	30.	49.7	30.	11.8	30.	18.6
19	30.	25.4	30.	14.3	30.	52.2	30.	12.1	30.	18.6
20	28.	24.3	29.	14.9	28.	56.9	28.	12.5	28.	18.5
21	28.	22.9	29.	15.2	28.	62.7	28.	12.8	28.	18.2
22	29.	22.0	30.	15.0	29.	65.2	29.	12.7	29.	17.8
23	28.	21.5	30.	15.0	28.	67.0	28.	12.6	28.	17.5
24	28.	20.8	29.	14.9	28.	69.7	28.	12.7	28.	17.3
HOURLY MEAN		22.5		14.2		61.1		12.0		17.5
AVG DAILY MAX		26.5		16.3		77.1		13.7		19.1
AVG DAILY MIN		18.2		12.3		46.3		10.7		15.4
ABSOLUTE MAX		33.0		20.0		86.1		16.9		22.5
ABSOLUTE MIN		11.5		4.5		28.2		6.2		9.3
TOTAL OBS	622		712		622		622		622	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1995

APR-JUN HOUR AVERAGES FOR THE PERIOD 4/ 1/95 TO 6/30/95

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	OBS	(DEG C)	OBS	(DEG C)	OBS	(%)	OBS	(GM/M3)	OBS	(DEG C)
1	79.	14.0	88.	8.5	78.	69.0	78.	8.9	78.	11.1
2	80.	13.4	88.	8.3	79.	70.4	79.	8.7	79.	10.7
3	79.	12.9	88.	8.2	78.	71.6	78.	8.6	78.	10.3
4	77.	12.7	88.	8.0	76.	72.5	76.	8.6	76.	10.2
5	76.	12.2	88.	7.9	75.	73.4	75.	8.4	75.	9.8
6	77.	12.0	89.	7.8	76.	74.1	76.	8.4	76.	9.7
7	77.	12.4	90.	7.9	77.	72.6	77.	8.5	77.	10.0
8	74.	13.2	90.	8.1	74.	68.4	74.	8.3	74.	10.2
9	74.	14.6	90.	8.2	74.	64.0	74.	8.4	74.	11.0
10	74.	15.8	90.	8.3	74.	59.6	74.	8.4	74.	11.6
11	75.	17.0	88.	8.1	74.	55.4	74.	8.3	74.	12.1
12	78.	17.5	88.	8.0	77.	53.4	77.	8.2	77.	12.3
13	78.	18.2	88.	7.8	77.	50.8	77.	8.2	77.	12.6
14	79.	19.1	89.	7.9	78.	48.7	78.	8.3	78.	13.0
15	79.	19.4	89.	7.9	78.	48.0	78.	8.3	78.	13.1
16	78.	19.6	89.	8.0	77.	47.5	77.	8.2	77.	13.2
17	82.	19.5	89.	7.9	81.	48.2	.	8.3	81.	13.2
18	85.	19.7	90.	8.0	85.	49.3	.	8.5	85.	13.4
19	84.	19.2	90.	8.2	84.	51.4	84.	8.7	84.	13.3
20	81.	18.0	89.	8.6	81.	55.6	81.	8.9	81.	13.0
21	80.	16.8	89.	8.8	80.	60.1	80.	9.1	80.	12.5
22	81.	16.0	89.	8.8	80.	62.9	80.	9.1	80.	12.2
23	80.	15.3	89.	8.8	79.	65.3	79.	9.0	79.	11.8
24	79.	14.7	88.	8.8	78.	67.6	78.	9.0	78.	11.5
HOURLY MEAN		16.0		8.2		60.7		8.6		11.8
AVG DAILY MAX		20.0		10.9		76.9		10.1		13.8
AVG DAILY MIN		11.7		5.8		46.8		7.5		9.3
ABSOLUTE MAX		33.0		20.0		88.1		16.9		22.5
ABSOLUTE MIN		-3.9		-13.6		19.0		1.7		-5.8
TOTAL OBS	1686		2133		1870		1870		1870	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-JUN 1995

JAN-JUN HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 6/30/95

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	164.	6.2	178.	1.6	163.	69.9	163.	6.1	163.	3.9
2	167.	5.8	178.	1.4	166.	71.0	166.	6.0	166.	3.6
3	166.	5.5	178.	1.3	165.	71.8	165.	6.0	165.	3.4
4	163.	5.0	178.	1.1	162.	72.5	162.	5.9	162.	3.0
5	162.	4.6	178.	1.0	161.	73.4	161.	5.7	161.	2.7
6	162.	4.5	178.	0.9	161.	73.9	161.	5.8	161.	2.6
7	161.	4.6	178.	1.0	161.	73.3	161.	5.8	161.	2.7
8	158.	4.7	178.	1.0	158.	71.3	158.	5.7	158.	2.6
9	159.	5.7	179.	1.2	159.	68.5	159.	5.7	159.	3.2
10	161.	6.9	180.	1.4	161.	64.5	161.	5.8	161.	4.0
11	162.	8.2	178.	1.4	161.	60.3	161.	5.8	161.	4.7
12	166.	9.2	178.	1.4	165.	57.4	165.	5.8	165.	5.3
13	166.	10.1	177.	1.4	165.	54.9	165.	5.8	165.	5.8
14	167.	11.0	179.	1.5	166.	52.6	166.	5.9	166.	6.3
15	167.	11.5	179.	1.7	166.	51.5	166.	5.8	166.	6.6
16	165.	11.8	179.	1.7	164.	50.6	164.	5.8	164.	6.7
17	169.	11.9	179.	1.7	168.	51.0	168.	5.9	168.	6.9
18	172.	11.8	180.	1.8	172.	52.4	172.	6.1	172.	6.9
19	171.	10.9	180.	1.9	171.	55.1	171.	6.2	171.	6.5
20	168.	9.8	179.	2.0	168.	58.7	168.	6.2	168.	6.0
21	167.	8.7	179.	2.0	167.	62.1	167.	6.3	167.	5.5
22	168.	8.1	179.	2.0	167.	64.5	167.	6.3	167.	5.1
23	166.	7.4	179.	1.9	165.	66.6	165.	6.2	165.	4.7
24	164.	6.8	178.	1.8	163.	68.5	163.	6.2	163.	4.3
HOURLY MEAN		8.0		1.5		63.1		5.9		4.7
AVG DAILY MAX		13.0		4.5		77.8		7.3		8.1
AVG DAILY MIN		4.1		-1.1		49.0		5.3		2.3
ABSOLUTE MAX		33.0		20.0		96.0		16.9		22.5
ABSOLUTE MIN		-21.1		-23.7		19.0		0.8		-21.4
TOTAL OBS	3961		4286		3945		3945		3945	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/95 TO 9/30/95

JULY

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	OBS	(DEG C)	OBS	(DEG C)	OBS	(%)	OBS	(GM/M3)	OBS	(DEG C)
1	23.	22.8	31.	17.7	23.	72.2	23.	14.9	23.	19.4
2	21.	22.6	31.	17.5	21.	72.4	21.	14.7	21.	19.2
3	21.	22.2	31.	17.4	21.	73.3	21.	14.6	21.	19.0
4	21.	21.7	31.	17.1	21.	74.1	21.	14.3	21.	18.7
5	22.	21.4	31.	16.9	22.	75.4	22.	14.3	22.	18.5
6	22.	21.1	31.	16.8	22.	75.9	22.	14.2	22.	18.4
7	22.	21.8	31.	17.0	22.	74.7	22.	14.4	22.	18.8
8	22.	23.2	31.	17.2	22.	69.3	22.	14.6	22.	19.5
9	22.	24.8	31.	17.4	22.	64.0	22.	14.6	22.	20.0
10	23.	26.5	31.	17.3	23.	57.4	23.	14.4	23.	20.5
11	22.	28.1	31.	17.2	22.	53.5	22.	14.6	22.	21.2
12	18.	28.9	31.	17.1	18.	51.1	18.	14.5	18.	21.5
13	18.	29.8	31.	16.8	18.	48.1	18.	14.4	18.	21.7
14	17.	30.7	31.	16.9	17.	45.5	17.	14.3	17.	21.9
15	16.	31.4	31.	16.9	16.	43.5	16.	14.2	16.	22.1
16	20.	30.4	31.	16.7	20.	43.6	20.	13.5	20.	21.3
17	21.	30.8	31.	17.0	21.	43.5	21.	13.8	21.	21.6
18	22.	30.3	31.	17.5	22.	46.3	22.	14.3	22.	21.7
19	23.	29.1	31.	17.8	23.	50.9	23.	14.6	23.	21.5
20	23.	27.2	31.	17.9	23.	57.0	23.	14.9	23.	21.0
21	23.	25.6	31.	18.0	23.	63.3	23.	15.2	23.	20.7
22	22.	24.7	31.	18.0	22.	66.8	22.	15.2	22.	20.4
23	22.	24.0	31.	18.0	22.	69.2	22.	15.2	22.	20.1
24	23.	23.6	31.	17.9	23.	70.0	23.	15.0	23.	19.8
HOURLY MEAN		25.8		17.3		61.5		14.5		20.3
AVG DAILY MAX		29.9		19.7		78.9		16.4		21.9
AVG DAILY MIN		21.1		14.9		46.5		12.7		18.3
ABSOLUTE MAX		40.7		23.2		89.8		20.2		26.3
ABSOLUTE MIN		12.1		5.7		27.0		7.0		10.5
TOTAL OBS		509		744		509		509		509

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/95 TO 9/30/95

AUGUST

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	OBS	(DEG C)	OBS	(DEG C)	OBS	(%)	OBS	(GM/M3)	OBS	(DEG C)
1	21.	23.0	31.	19.3	21.	78.6	21.	16.3	21.	20.4
2	21.	22.6	31.	19.1	21.	80.0	21.	16.2	21.	20.2
3	21.	22.2	31.	18.9	21.	80.9	21.	16.1	21.	20.0
4	21.	21.8	31.	18.6	21.	81.4	21.	15.8	21.	19.7
5	20.	21.4	31.	18.3	20.	81.6	20.	15.4	20.	19.3
6	19.	20.9	31.	18.2	19.	82.8	19.	15.2	19.	19.0
7	19.	21.1	31.	18.2	19.	81.7	19.	15.2	19.	19.1
8	17.	22.3	31.	18.5	17.	78.4	17.	15.6	17.	19.8
9	16.	23.4	31.	18.8	16.	72.8	16.	15.4	16.	20.0
10	16.	24.8	31.	18.9	16.	66.6	16.	15.3	16.	20.5
11	14.	25.5	31.	19.1	14.	64.7	14.	15.4	14.	20.8
12	14.	26.0	31.	19.2	14.	63.6	14.	15.6	14.	21.1
13	13.	26.5	31.	19.3	13.	62.0	13.	15.6	13.	21.3
14	13.	27.0	31.	19.3	13.	60.6	13.	15.6	13.	21.5
15	15.	28.6	31.	19.2	15.	56.4	15.	15.8	15.	22.1
16	16.	29.3	31.	19.6	16.	55.3	16.	16.0	16.	22.5
17	16.	29.2	31.	19.7	16.	56.3	16.	16.2	16.	22.5
18	18.	29.0	31.	20.0	18.	58.2	18.	16.6	18.	22.7
19	17.	27.9	31.	20.2	17.	61.9	17.	16.8	17.	22.5
20	19.	26.5	31.	20.3	19.	67.9	19.	17.1	19.	22.1
21	21.	25.5	31.	20.1	21.	71.5	21.	17.0	21.	21.8
22	21.	24.7	31.	19.8	21.	73.2	21.	16.7	21.	21.3
23	21.	24.1	31.	19.6	21.	74.7	21.	16.5	21.	21.0
24	20.	23.8	31.	19.5	20.	76.3	20.	16.6	20.	20.9
HOURLY MEAN		24.7		19.2		71.3		16.0		20.9
AVG DAILY MAX		28.9		21.2		83.2		17.9		23.0
AVG DAILY MIN		21.5		17.6		57.7		15.1		19.4
ABSOLUTE MAX		35.9		25.5		97.6		23.0		26.5
ABSOLUTE MIN		16.0		12.2		38.1		10.3		14.1
TOTAL OBS	429		744		429		429		429	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/95 TO 9/30/95

SEPTEMBER

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	OBS	(DEG C)	OBS	(DEG C)	OBS	(%)	OBS	(GM/M3)	OBS	(DEG C)
1	25.	14.7	29.	11.2	24.	77.8	24.	10.5	24.	12.6
2	24.	14.5	29.	11.1	23.	78.2	23.	10.4	23.	12.5
3	24.	14.0	29.	10.9	23.	79.6	23.	10.2	23.	12.1
4	23.	13.4	28.	10.5	22.	80.1	22.	9.9	22.	11.6
5	23.	13.0	28.	10.3	22.	81.0	22.	9.8	22.	11.4
6	24.	12.5	28.	10.2	23.	82.1	23.	9.6	23.	11.0
7	24.	12.5	28.	10.2	23.	81.6	23.	9.6	23.	11.0
8	23.	13.5	28.	10.6	23.	78.2	23.	9.7	23.	11.6
9	23.	15.1	27.	11.0	22.	72.9	22.	10.0	22.	12.6
10	23.	17.0	27.	11.1	22.	65.6	22.	10.1	22.	13.5
11	22.	18.7	28.	11.2	22.	61.1	22.	10.4	22.	14.4
12	22.	20.5	28.	11.1	22.	54.7	22.	10.3	22.	15.1
13	23.	21.3	29.	11.5	23.	54.4	23.	10.7	23.	15.7
14	25.	21.7	29.	11.5	25.	52.6	25.	10.6	25.	15.8
15	24.	22.1	29.	11.4	24.	51.8	24.	10.8	24.	16.0
16	24.	22.1	29.	11.5	24.	52.5	24.	10.9	24.	16.1
17	26.	21.9	29.	11.6	26.	53.4	26.	10.9	26.	16.0
18	26.	21.0	29.	11.8	25.	56.8	25.	11.0	25.	15.7
19	26.	19.3	29.	12.1	25.	64.3	25.	11.4	25.	15.3
20	26.	18.0	29.	12.0	25.	69.0	25.	11.4	25.	14.7
21	26.	17.2	29.	11.9	25.	72.0	25.	11.3	25.	14.4
22	26.	16.7	29.	11.8	25.	74.1	25.	11.3	25.	14.1
23	26.	16.1	29.	11.5	25.	75.5	25.	11.0	25.	13.7
24	25.	15.4	29.	11.2	24.	76.5	24.	10.7	24.	13.1
HOURLY MEAN		17.2		11.2		68.4		10.5		13.8
AVG DAILY MAX		23.1		14.0		84.6		12.2		16.5
AVG DAILY MIN		12.5		8.5		49.6		9.0		10.9
ABSOLUTE MAX		30.8		22.3		98.0		19.5		23.7
ABSOLUTE MIN		-0.2		-6.1		26.9		2.9		-1.0
TOTAL OBS		583		685		567		567		567

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 1995

JUL-SEP HOUR AVERAGES FOR THE PERIOD 7/ 1/95 TO 9/30/95

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	69.	19.9	91.	16.2	68.	76.2	68.	13.8	68.	17.3
2	66.	19.6	91.	16.0	65.	76.9	65.	13.7	65.	17.2
3	66.	19.2	91.	15.8	65.	78.0	65.	13.5	65.	16.9
4	65.	18.8	90.	15.6	64.	78.6	64.	13.3	64.	16.6
5	65.	18.4	90.	15.3	64.	79.3	64.	13.1	64.	16.3
6	65.	17.9	90.	15.2	64.	80.2	64.	12.8	64.	15.9
7	65.	18.2	90.	15.3	64.	79.3	64.	12.9	64.	16.1
8	62.	19.4	90.	15.6	62.	75.1	62.	13.1	62.	16.6
9	61.	20.8	89.	15.9	60.	69.6	60.	13.1	60.	17.3
10	62.	22.5	89.	16.0	61.	62.8	61.	13.1	61.	18.0
11	58.	23.9	90.	16.0	58.	59.1	58.	13.2	58.	18.5
12	54.	24.7	90.	16.0	54.	55.8	54.	13.1	54.	18.8
13	54.	25.4	91.	16.0	54.	54.2	54.	13.1	54.	19.1
14	55.	25.7	91.	16.0	55.	52.3	55.	12.9	55.	19.0
15	55.	26.6	91.	15.9	55.	50.7	55.	13.1	55.	19.5
16	60.	26.8	91.	16.0	60.	50.3	60.	13.1	60.	19.5
17	63.	26.7	91.	16.2	63.	50.9	63.	13.2	63.	19.5
18	66.	26.3	91.	16.5	65.	53.6	65.	13.7	65.	19.7
19	66.	24.9	91.	16.8	65.	50.9	65.	14.0	65.	19.4
20	68.	23.5	91.	16.8	67.	64.5	67.	14.2	67.	19.0
21	70.	22.5	91.	16.8	69.	69.0	69.	14.3	69.	18.7
22	69.	21.7	91.	16.7	68.	71.5	68.	14.2	68.	18.4
23	69.	21.1	91.	16.5	68.	73.2	68.	14.1	68.	18.0
24	68.	20.6	91.	16.3	67.	74.2	67.	13.9	67.	17.8
HOURLY MEAN		22.2		16.1		66.9		13.5		18.0
AVG DAILY MAX		27.2		18.3		82.2		15.4		20.3
AVG DAILY MIN		18.3		13.7		51.0		12.2		16.1
ABSOLUTE MAX		40.7		25.5		98.0		23.0		26.5
ABSOLUTE MIN		-0.2		-6.1		26.9		2.9		-1.0
TOTAL OBS	1521		2173		1505		1505		1505	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/95 TO 12/31/95

OCTOBER

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	OBS	(DEG C)	OBS	(DEG C)	OBS	(%)	OBS	(GM/M3)	OBS	(DEG C)
1	27.	11.4	31.	5.2	27.	69.2	27.	7.3	27.	8.7
2	27.	11.1	31.	5.3	27.	71.0	27.	7.4	27.	8.5
3	26.	10.9	30.	5.4	26.	72.3	26.	7.5	26.	8.6
4	27.	10.4	30.	5.4	27.	73.0	27.	7.4	27.	8.2
5	26.	10.0	29.	5.3	26.	74.6	26.	7.4	26.	7.9
6	27.	9.6	29.	5.1	27.	75.9	27.	7.3	27.	7.6
7	27.	9.2	29.	4.5	27.	75.1	27.	6.9	27.	7.2
8	28.	9.3	29.	4.7	28.	74.7	28.	7.0	28.	7.3
9	29.	11.1	29.	5.2	29.	68.3	29.	7.1	29.	8.3
10	29.	13.0	29.	5.1	29.	60.0	29.	7.0	29.	9.2
11	29.	14.6	29.	5.0	29.	54.1	29.	6.9	29.	9.9
12	27.	15.6	27.	5.0	27.	51.1	27.	6.9	27.	10.3
13	29.	16.3	28.	4.8	28.	47.1	28.	6.8	28.	10.7
14	29.	16.9	28.	4.7	28.	45.4	28.	6.7	28.	11.0
15	29.	17.5	28.	4.6	28.	44.4	28.	6.6	28.	11.2
16	30.	18.0	29.	4.6	29.	43.2	29.	6.6	29.	11.4
17	29.	17.9	28.	5.2	28.	44.7	28.	6.9	28.	11.6
18	27.	16.5	28.	5.7	26.	50.9	26.	7.4	26.	11.4
19	26.	14.7	28.	5.9	25.	56.5	25.	7.4	25.	10.6
20	26.	13.7	28.	5.9	25.	60.4	25.	7.4	25.	10.1
21	27.	13.0	29.	5.2	26.	60.6	26.	7.2	26.	9.4
22	26.	12.4	29.	5.2	25.	61.9	25.	7.1	25.	9.0
23	24.	12.4	28.	5.3	23.	64.3	23.	7.4	23.	8.3
24	26.	11.8	29.	5.1	25.	66.2	25.	7.3	25.	9.0
HOURLY MEAN		13.3		5.1		60.9		7.1		9.4
AVG DAILY MAX		18.9		7.9		81.0		8.4		12.1
AVG DAILY MIN		7.4		2.3		40.6		5.8		5.7
ABSOLUTE MAX		31.0		17.0		100.0		14.0		20.3
ABSOLUTE MIN		-0.6		-6.0		22.8		2.9		-1.4
TOTAL OBS		657		692		645		645		645

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PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/95 TO 12/31/95

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	26.	1.2	28.	-3.4	26.	69.7	26.	3.9	26.	-0.6
2	26.	1.0	28.	-3.5	26.	70.5	26.	3.8	26.	-0.8
3	25.	0.6	28.	-3.6	25.	70.9	25.	3.7	25.	-1.2
4	25.	0.3	28.	-3.7	25.	71.9	25.	3.7	25.	-1.4
5	25.	0.0	28.	-3.8	25.	72.4	25.	3.7	25.	-1.6
6	25.	-0.5	28.	-4.0	25.	74.0	25.	3.6	25.	-2.0
7	25.	-0.7	28.	-4.1	25.	74.2	25.	3.6	25.	-2.1
8	26.	-0.9	28.	-3.9	25.	75.7	25.	3.6	25.	-2.2
9	27.	0.2	28.	-3.4	26.	74.4	26.	3.8	26.	-1.3
10	28.	2.0	29.	-2.7	28.	79.5	28.	4.1	28.	0.2
11	29.	3.2	30.	-2.7	29.	64.5	29.	4.1	29.	0.9
12	29.	4.5	30.	-2.5	29.	60.9	29.	4.2	29.	1.7
13	29.	5.5	30.	-2.2	29.	58.1	29.	4.3	29.	2.4
14	29.	6.3	30.	-2.2	29.	55.6	29.	4.3	29.	2.8
15	29.	6.7	30.	-2.2	29.	54.6	29.	4.3	29.	3.1
16	28.	6.9	30.	-2.1	28.	53.3	28.	4.3	28.	3.1
17	28.	6.4	30.	-2.3	28.	54.2	28.	4.2	28.	2.8
18	28.	5.3	30.	-2.6	28.	56.8	28.	4.1	28.	2.1
19	28.	4.6	30.	-2.6	28.	59.2	28.	4.1	28.	1.7
20	29.	4.0	30.	-2.6	29.	62.5	29.	4.2	29.	1.4
21	29.	3.4	30.	-2.9	29.	63.7	29.	4.1	29.	0.9
22	29.	2.6	30.	-3.1	29.	65.8	29.	4.0	29.	0.4
23	29.	2.1	30.	-3.1	29.	68.3	29.	4.0	29.	0.1
24	28.	1.6	30.	-3.3	28.	69.0	28.	3.9	28.	-0.3
HOURLY MEAN		2.9		-3.0		65.1		4.0		0.5
AVG DAILY MAX		7.9		0.6		81.2		5.1		4.3
AVG DAILY MIN		-1.9		-6.6		51.8		3.2		-3.2
ABSOLUTE MAX		20.0		8.6		96.4		8.4		12.6
ABSOLUTE MIN		-12.2		-15.4		20.3		1.5		-12.8
TOTAL OBS		659		701		657		657		657

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PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/95 TO 12/31/95

DECEMBER

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	OBS	(DEG C)	OBS	(DEG C)	OBS	(%)	OBS	(GM/M3)	OBS	(DEG C)
1	26.	-1.7	30.	-5.9	26.	75.5	26.	3.4	26.	-3.0
2	26.	-1.8	30.	-5.8	26.	76.6	26.	3.4	26.	-3.1
3	27.	-1.9	30.	-5.7	27.	78.2	27.	3.5	27.	-3.0
4	26.	-2.5	30.	-5.8	26.	79.7	26.	3.4	26.	-3.5
5	26.	-2.6	30.	-5.9	26.	79.5	26.	3.4	26.	-3.6
6	26.	-2.7	30.	-6.2	26.	79.2	26.	3.3	26.	-3.7
7	28.	-2.6	30.	-6.2	28.	79.0	28.	3.4	28.	-3.6
8	29.	-3.1	30.	-6.3	29.	78.8	29.	3.3	29.	-4.1
9	27.	-3.1	29.	-6.0	27.	79.1	27.	3.3	27.	-4.1
10	28.	-2.1	29.	-5.4	28.	78.3	28.	3.5	28.	-3.2
11	29.	-1.2	29.	-5.1	29.	75.9	29.	3.6	29.	-2.4
12	28.	-0.4	29.	-4.9	28.	72.9	28.	3.7	28.	-2.0
13	28.	0.2	29.	-4.7	28.	70.8	28.	3.7	28.	-1.5
14	27.	0.9	29.	-4.6	27.	69.2	27.	3.8	27.	-1.1
15	28.	1.4	30.	-4.3	28.	68.4	28.	3.9	28.	-0.6
16	27.	1.5	30.	-4.4	27.	66.4	27.	3.8	27.	-0.7
17	27.	1.2	30.	-4.8	27.	66.2	27.	3.7	27.	-1.0
18	28.	0.2	31.	-4.9	28.	69.4	28.	3.6	28.	-1.7
19	27.	-0.4	31.	-5.1	27.	72.7	27.	3.7	27.	-2.0
20	26.	-0.3	31.	-5.4	26.	73.7	26.	3.6	26.	-1.9
21	26.	-0.8	31.	-5.6	26.	75.4	26.	3.6	26.	-2.2
22	25.	-1.2	31.	-5.6	25.	76.4	25.	3.6	25.	-2.5
23	25.	-1.5	31.	-5.7	25.	77.0	25.	3.5	25.	-2.7
24	26.	-1.7	31.	-5.9	26.	75.4	26.	3.4	26.	-3.0
HOURLY MEAN		-1.1		-5.4		74.7		3.5		-2.5
AVG DAILY MAX		2.2		-2.2		85.3		4.3		0.3
AVG DAILY MIN		-4.3		-8.7		63.0		2.8		-5.4
ABSOLUTE MAX		14.5		10.3		96.4		9.5		11.5
ABSOLUTE MIN		-17.4		-25.6		20.3		0.6		-18.4
TOTAL OBS		646		721		646		646		646

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 1995

OCT-DEC 1:00 HOUR AVERAGES FOR THE PERIOD 10/ 1/95 TO 12/31/95

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	79.	3.8	89.	-1.2	79.	71.4	79.	4.9	79.	1.8
2	79.	3.5	89.	-1.2	79.	72.7	79.	4.9	79.	1.6
3	78.	3.2	88.	-1.3	78.	73.9	78.	4.9	78.	1.4
4	78.	2.9	88.	-1.3	78.	74.9	78.	4.9	78.	1.2
5	77.	2.5	87.	-1.5	77.	75.6	77.	4.8	77.	0.9
6	78.	2.3	87.	-1.7	78.	76.4	78.	4.8	78.	0.8
7	80.	2.0	87.	-2.0	80.	76.1	80.	4.6	80.	0.5
8	83.	1.8	87.	-1.8	82.	76.5	82.	4.6	82.	0.4
9	83.	2.9	86.	-1.4	82.	73.8	82.	4.8	82.	1.2
10	85.	4.4	87.	-1.0	85.	69.5	85.	4.9	85.	2.1
11	87.	5.6	88.	-1.0	87.	64.9	87.	4.9	87.	2.8
12	84.	6.4	86.	-0.9	84.	61.7	84.	4.9	84.	3.2
13	86.	7.4	87.	-0.8	85.	58.7	85.	4.9	85.	3.8
14	85.	8.2	87.	-0.8	84.	56.6	84.	4.9	84.	4.3
15	86.	8.6	88.	-0.7	85.	55.8	85.	4.9	85.	4.5
16	85.	9.1	89.	-0.7	84.	54.1	84.	4.9	84.	4.7
17	84.	8.7	88.	-0.8	83.	54.9	83.	4.9	83.	4.5
18	83.	7.2	89.	-0.8	82.	59.2	82.	5.0	82.	3.8
19	81.	6.2	89.	-0.8	80.	62.9	80.	5.0	80.	3.2
20	81.	5.7	89.	-0.9	80.	65.5	80.	5.0	80.	3.0
21	82.	5.2	90.	-1.2	81.	66.4	81.	4.9	81.	2.6
22	80.	4.6	90.	-1.3	79.	67.9	79.	4.8	79.	2.2
23	78.	4.1	89.	-1.4	77.	69.9	77.	4.9	77.	1.9
24	80.	3.8	90.	-1.5	79.	70.2	79.	4.8	79.	1.7
HOURLY MEAN		5.1		-1.2		66.9		4.9		2.5
AVG DAILY MAX		9.7		2.1		82.5		5.9		5.6
AVG DAILY MIN		0.4		-4.3		51.8		3.9		-0.9
ABSOLUTE MAX		31.0		17.0		100.0		14.0		20.3
ABSOLUTE MIN		-17.4		-25.6		20.3		0.6		-18.4
TOTAL OBS	1962		2114		1948		1948		1968	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-DEC 1995

JUL-DEC HOUR AVERAGES FOR THE PERIOD 7/ 1/95 TO 12/31/95

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	148.	11.3	180.	7.6	147.	73.6	147.	9.0	147.	9.0
2	145.	10.9	180.	7.5	144.	74.6	144.	8.9	144.	8.7
3	144.	10.5	179.	7.4	143.	75.8	143.	8.8	143.	8.5
4	143.	10.1	178.	7.2	142.	76.5	142.	8.7	142.	8.1
5	142.	9.8	177.	7.1	141.	77.2	141.	8.6	141.	7.9
6	143.	9.4	177.	6.9	142.	78.1	142.	8.4	142.	7.6
7	145.	9.2	177.	6.8	144.	77.5	144.	8.3	144.	7.4
8	145.	9.3	177.	7.0	144.	75.9	144.	8.3	144.	7.4
9	144.	10.5	175.	7.4	142.	72.0	142.	8.3	142.	8.0
10	147.	12.1	176.	7.6	146.	66.7	146.	8.3	146.	8.8
11	145.	12.9	178.	7.6	145.	62.6	145.	8.2	145.	9.1
12	138.	13.6	176.	7.7	138.	59.4	138.	8.1	138.	9.3
13	140.	14.4	178.	7.8	139.	56.9	139.	8.1	139.	9.8
14	140.	15.1	178.	7.8	139.	54.9	139.	8.1	139.	10.1
15	141.	15.6	179.	7.7	140.	53.8	140.	8.1	140.	10.4
16	145.	16.4	180.	7.7	144.	52.5	144.	8.3	144.	10.9
17	147.	16.4	179.	7.9	146.	53.1	146.	8.5	146.	11.0
18	149.	15.7	180.	8.0	147.	56.7	147.	8.8	147.	10.8
19	147.	14.6	180.	8.1	145.	61.1	145.	9.0	145.	10.5
20	149.	13.8	180.	8.1	147.	65.0	147.	9.2	147.	10.3
21	152.	13.1	181.	7.8	150.	67.6	150.	9.2	150.	10.0
22	149.	12.5	181.	7.7	147.	69.6	147.	9.2	147.	9.7
23	147.	12.1	180.	7.7	145.	71.5	145.	9.2	145.	9.5
24	148.	11.6	181.	7.5	146.	72.1	146.	9.0	146.	9.1
HOURLY MEAN		12.5		7.6		66.9		8.6		9.2
AVG DAILY MAX		17.9		10.2		82.4		10.4		12.5
AVG DAILY MIN		8.8		4.7		51.4		7.8		7.0
ABSOLUTE MAX		40.7		25.5		100.0		23.0		26.5
ABSOLUTE MIN		-17.4		-25.6		20.3		0.6		-18.4
TOTAL OBS	3483		4287		3453		3453		3453	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-DEC 1995

JAN-DEC HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 12/31/95

10.0 METERS LEVEL

HOUR	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	OBS	(DEG C)	OBS	(DEG C)	OBS	(%)	OBS	(GM/M3)	OBS	(DEG C)
1	312.	8.6	358.	4.6	310.	71.7	310.	7.5	310.	6.3
2	312.	8.2	358.	4.5	310.	72.7	310.	7.4	310.	6.0
3	310.	7.8	357.	4.4	308.	73.6	308.	7.3	308.	5.7
4	306.	7.4	356.	4.2	304.	74.4	304.	7.2	304.	5.4
5	304.	7.0	355.	4.0	302.	75.2	302.	7.1	302.	5.1
6	305.	6.8	355.	3.9	303.	75.9	303.	7.0	303.	4.9
7	306.	6.8	355.	3.9	305.	75.3	305.	7.0	305.	4.9
8	303.	6.9	355.	4.0	302.	73.5	302.	6.9	302.	4.9
9	303.	8.0	354.	4.3	301.	70.2	301.	7.0	301.	5.5
10	308.	9.4	356.	4.5	307.	65.5	307.	7.0	307.	6.3
11	307.	10.4	356.	4.5	306.	61.3	306.	6.9	306.	6.7
12	304.	11.2	354.	4.5	303.	58.3	303.	6.9	303.	7.1
13	306.	12.0	355.	4.6	304.	55.8	304.	6.9	304.	7.6
14	307.	12.9	357.	4.7	305.	53.6	305.	6.9	305.	8.0
15	308.	13.4	358.	4.7	306.	52.5	306.	6.9	306.	8.3
16	310.	13.9	359.	4.7	308.	51.5	308.	7.0	308.	8.7
17	316.	14.0	358.	4.8	314.	52.0	314.	7.1	314.	8.8
18	321.	13.6	360.	4.9	319.	54.4	319.	7.4	319.	8.7
19	318.	12.6	360.	5.0	316.	57.9	316.	7.5	316.	8.3
20	317.	11.7	359.	5.0	315.	61.7	315.	7.6	315.	8.0
21	319.	10.8	360.	4.9	317.	64.7	317.	7.7	317.	7.6
22	317.	10.2	360.	4.9	314.	66.9	314.	7.6	314.	7.2
23	313.	9.6	359.	4.8	310.	68.9	310.	7.6	310.	6.9
24	312.	9.1	359.	4.7	309.	70.2	309.	7.5	309.	6.6
HOURLY MEAN		10.1		4.5		64.9		7.2		6.8
AVG DAILY MAX		15.4		7.4		80.0		8.8		10.2
AVG DAILY MIN		6.4		1.8		50.2		6.5		4.6
ABSOLUTE MAX		40.7		25.5		100.0		23.0		26.5
ABSOLUTE MIN		-21.1		-25.6		19.0		0.6		-21.4
TOTAL OBS	7444		8573		7398		7398		7398	

Wind Direction Frequencies

10-Meter Level

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JANUARY

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	12.9	9.7	0.0	0.0	0.0	6.5	9.7	6.5	6.5	9.7	0.0	0.0	6.5	0.0	16.1	16.1	0.0	100.
2	9.7	3.2	0.0	0.0	0.0	6.5	6.5	9.7	12.9	3.2	0.0	6.5	3.2	0.0	19.4	19.4	0.0	100.
3	9.7	3.2	3.2	0.0	0.0	3.2	9.7	0.0	16.1	3.2	3.2	6.5	0.0	3.2	19.4	19.4	0.0	100.
4	6.5	3.2	3.2	0.0	0.0	9.7	3.2	0.0	19.4	0.0	9.7	0.0	0.0	6.5	19.4	19.4	0.0	100.
5	16.1	0.0	3.2	3.2	0.0	9.7	6.5	3.2	9.7	0.0	3.2	3.2	0.0	9.7	16.1	16.1	0.0	100.
6	3.2	3.2	0.0	0.0	3.2	6.5	12.9	3.2	3.2	6.5	3.2	0.0	6.5	16.1	16.1	16.1	0.0	100.
7	6.7	3.3	0.0	0.0	6.7	3.3	10.0	6.7	6.7	6.7	6.7	3.3	6.7	3.3	10.0	20.0	0.0	100.
8	3.3	3.3	3.3	0.0	3.3	6.7	16.7	3.3	10.0	3.3	3.3	0.0	6.7	6.7	10.0	20.0	0.0	100.
9	13.3	6.7	0.0	0.0	3.3	3.3	16.7	6.7	6.7	0.0	3.3	3.3	3.3	0.0	16.7	16.7	0.0	100.
10	12.9	6.5	0.0	0.0	3.2	0.0	22.6	3.2	9.7	0.0	3.2	3.2	6.5	0.0	12.9	16.1	0.0	100.
11	12.9	0.0	3.2	0.0	3.2	3.2	19.4	0.0	6.5	3.2	3.2	0.0	12.9	0.0	19.4	12.9	0.0	100.
12	19.4	0.0	0.0	0.0	3.2	6.5	12.9	3.2	6.5	3.2	0.0	3.2	9.7	6.5	19.4	6.5	0.0	100.
13	3.2	6.5	3.2	3.2	0.0	6.5	12.9	3.2	6.5	3.2	0.0	6.5	3.2	12.9	16.1	12.9	0.0	100.
14	9.7	6.5	0.0	3.2	0.0	6.5	9.7	6.5	3.2	6.5	0.0	3.2	9.7	12.9	9.7	12.9	0.0	100.
15	9.7	3.2	0.0	3.2	0.0	0.0	19.4	0.0	3.2	9.7	0.0	6.5	12.9	3.2	16.1	12.9	0.0	100.
16	9.7	0.0	0.0	3.2	3.2	3.2	12.9	0.0	3.2	9.7	0.0	3.2	9.7	3.2	22.6	16.1	0.0	100.
17	3.2	6.5	3.2	0.0	3.2	0.0	12.9	3.2	9.7	3.2	0.0	0.0	6.5	12.9	16.1	19.4	0.0	100.
18	12.9	6.5	3.2	0.0	3.2	3.2	9.7	6.5	6.5	0.0	0.0	3.2	6.5	9.7	16.1	12.9	0.0	100.
19	9.7	3.2	3.2	0.0	0.0	6.5	9.7	6.5	6.5	3.2	6.5	0.0	3.2	3.2	19.4	19.4	0.0	100.
20	9.7	6.5	3.2	0.0	0.0	6.5	9.7	0.0	12.9	3.2	3.2	3.2	3.2	0.0	19.4	19.4	0.0	100.
21	9.7	3.2	3.2	3.2	0.0	0.0	16.1	3.2	9.7	6.5	3.2	3.2	9.7	0.0	12.9	16.1	0.0	100.
22	9.7	3.2	0.0	3.2	3.2	3.2	9.7	9.7	16.1	3.2	0.0	3.2	0.0	3.2	16.1	16.1	0.0	100.
23	9.7	3.2	3.2	0.0	0.0	3.2	9.7	19.4	9.7	0.0	0.0	3.2	0.0	3.2	19.4	16.1	0.0	100.
24	3.2	6.5	3.2	0.0	3.2	3.2	6.5	16.1	16.1	0.0	0.0	3.2	0.0	3.2	22.6	12.9	0.0	100.
ALL	9.4	4.0	1.8	0.9	1.8	4.5	11.9	5.0	9.0	3.6	2.2	2.8	5	5.0	16.7	16.1	0.0	100.

NUMBER OF OBS = 741

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

FEBRUARY

HR. OF DAY	WIND DIRECTION																	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
1	17.9	3.6	0.0	0.0	0.0	3.6	3.6	7.1	3.6	17.9	10.7	0.0	0.0	3.6	10.7	17.9	0.0	100.
2	10.7	10.7	0.0	0.0	0.0	3.6	3.6	0.0	3.6	14.3	10.7	3.6	3.6	7.1	10.7	17.9	0.0	100.
3	14.3	0.0	0.0	0.0	0.0	0.0	3.6	3.6	17.9	7.1	17.9	0.0	3.6	10.7	10.7	10.7	0.0	100.
4	14.3	0.0	0.0	0.0	0.0	3.6	7.1	3.6	3.6	10.7	7.1	0.0	3.6	7.1	21.4	17.9	0.0	100.
5	10.7	0.0	0.0	3.6	0.0	0.0	3.6	0.0	7.1	14.3	10.7	0.0	0.0	3.6	17.9	28.6	0.0	100.
6	14.8	0.0	0.0	0.0	0.0	0.0	7.4	0.0	14.8	7.4	7.4	0.0	0.0	0.0	22.2	25.9	0.0	100.
7	14.8	0.0	0.0	0.0	0.0	0.0	3.7	0.0	18.5	18.5	0.0	3.7	0.0	0.0	11.1	29.6	0.0	100.
8	18.5	0.0	0.0	0.0	0.0	0.0	7.4	11.1	7.4	11.1	3.7	0.0	0.0	7.4	14.8	18.5	0.0	100.
9	14.3	0.0	10.7	0.0	0.0	0.0	3.6	7.1	25.0	7.1	0.0	3.6	0.0	0.0	14.3	14.3	0.0	100.
10	7.1	7.1	3.6	3.6	3.6	0.0	3.6	3.6	25.0	7.1	3.6	0.0	3.6	0.0	3.6	25.0	0.0	100.
11	10.7	10.7	0.0	0.0	0.0	3.6	3.6	0.0	14.3	14.3	17.9	0.0	0.0	0.0	7.1	17.9	0.0	100.
12	10.7	3.6	3.6	0.0	0.0	7.1	7.1	7.1	14.3	17.9	0.0	0.0	3.6	0.0	3.6	21.4	0.0	100.
13	10.7	7.1	0.0	0.0	0.0	7.1	14.3	3.6	10.7	7.1	7.1	0.0	7.1	0.0	7.1	17.9	0.0	100.
14	7.1	3.6	3.6	0.0	3.6	0.0	7.1	10.7	7.1	10.7	7.1	7.1	0.0	0.0	14.3	17.9	0.0	100.
15	7.1	0.0	3.6	0.0	3.6	0.0	21.4	0.0	7.1	10.7	7.1	0.0	10.7	0.0	7.1	21.4	0.0	100.
16	10.7	0.0	3.6	3.6	7.1	3.6	7.1	3.6	3.6	14.3	0.0	3.6	10.7	0.0	14.3	14.3	0.0	100.
17	14.3	0.0	7.1	0.0	7.1	0.0	3.6	7.1	3.6	10.7	14.3	0.0	0.0	3.6	14.3	14.3	0.0	100.
18	7.1	7.1	0.0	0.0	3.6	3.6	3.6	3.6	17.9	10.7	0.0	3.6	0.0	0.0	10.7	28.6	0.0	100.
19	7.1	7.1	0.0	0.0	3.6	3.6	3.6	3.6	17.9	14.3	7.1	0.0	0.0	3.6	3.6	25.0	0.0	100.
20	7.1	10.7	0.0	0.0	3.6	3.6	7.1	7.1	10.7	17.9	7.1	0.0	3.6	0.0	3.6	17.9	0.0	100.
21	10.7	7.1	3.6	0.0	3.6	0.0	7.1	3.6	17.9	7.1	7.1	3.6	0.0	3.6	7.1	17.9	0.0	100.
22	3.6	14.3	0.0	0.0	0.0	3.6	3.6	7.1	17.9	7.1	3.6	0.0	0.0	14.3	0.0	21.4	3.6	100.
23	21.4	3.6	0.0	3.6	0.0	0.0	3.6	3.6	17.9	21.4	0.0	0.0	0.0	7.1	3.6	14.3	0.0	100.
24	21.4	0.0	3.6	0.0	0.0	3.6	3.6	7.1	3.6	21.4	7.1	0.0	3.6	7.1	0.0	17.9	0.0	100.
ALL	12.0	4.0	1.8	0.6	1.6	2.1	6.0	4.3	12.1	12.6	6.6	1.2	2.2	3.3	9.7	19.7	0.1	100.

NUMBER OF OBS = 669

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1995

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	12.9	6.5	3.2	0.0	9.7	3.2	9.7	9.7	12.9	0.0	0.0	3.2	3.2	0.0	6.5	19.4	0.0	100.
2	9.7	3.2	3.2	6.5	3.2	0.0	9.7	12.9	12.9	0.0	3.2	3.2	0.0	6.5	12.9	9.7	3.2	100.
3	6.5	9.7	3.2	0.0	6.5	0.0	9.7	6.5	9.7	6.5	0.0	3.2	3.2	9.7	12.9	9.7	3.2	100.
4	12.9	3.2	3.2	6.5	3.2	0.0	6.5	12.9	9.7	0.0	3.2	0.0	6.5	9.7	9.7	12.9	0.0	100.
5	9.7	6.5	0.0	0.0	9.7	3.2	12.9	12.9	6.5	3.2	0.0	0.0	3.2	12.9	9.7	9.7	0.0	100.
6	12.9	6.5	0.0	0.0	3.2	9.7	19.4	6.5	6.5	0.0	0.0	0.0	6.5	3.2	16.1	9.7	0.0	100.
7	16.1	3.2	0.0	0.0	3.2	9.7	16.1	9.7	6.5	3.2	0.0	0.0	3.2	6.5	16.1	6.5	0.0	100.
8	9.7	6.5	3.2	0.0	0.0	6.5	19.4	16.1	3.2	3.2	0.0	0.0	3.2	6.5	12.9	9.7	0.0	100.
9	12.9	3.2	6.5	0.0	3.2	6.5	19.4	3.2	9.7	6.5	0.0	0.0	3.2	0.0	12.9	12.9	0.0	100.
10	12.9	3.2	3.2	0.0	0.0	12.9	19.4	0.0	9.7	6.5	0.0	3.2	3.2	3.2	9.7	12.9	0.0	100.
11	9.7	3.2	3.2	0.0	0.0	6.5	16.1	9.7	6.5	9.7	0.0	0.0	3.2	9.7	9.7	12.9	0.0	100.
12	9.7	6.5	0.0	3.2	3.2	3.2	16.1	6.5	12.9	6.5	0.0	0.0	0.0	6.5	22.6	3.2	0.0	100.
13	16.7	0.0	0.0	3.3	0.0	3.3	6.7	10.0	10.0	13.3	0.0	0.0	0.0	10.0	16.7	10.0	0.0	100.
14	12.9	6.5	3.2	0.0	0.0	0.0	9.7	9.7	16.1	9.7	0.0	3.2	0.0	6.5	12.9	9.7	0.0	100.
15	19.4	0.0	0.0	3.2	0.0	6.5	6.5	6.5	12.9	6.5	3.2	3.2	3.2	6.5	12.9	9.7	0.0	100.
16	9.7	3.2	3.2	0.0	0.0	3.2	12.9	6.5	9.7	12.9	3.2	0.0	0.0	12.9	16.1	6.5	0.0	100.
17	16.1	6.5	3.2	3.2	0.0	3.2	6.5	0.0	19.4	12.9	0.0	0.0	0.0	6.5	16.1	6.5	0.0	100.
18	12.9	9.7	0.0	0.0	6.5	9.7	3.2	3.2	9.7	3.2	6.5	6.5	0.0	6.5	9.7	12.9	0.0	100.
19	19.4	9.7	0.0	3.2	3.2	6.5	3.2	9.7	3.2	3.2	3.2	3.2	0.0	6.5	9.7	16.1	0.0	100.
20	12.9	12.9	3.2	0.0	6.5	6.5	3.2	3.2	12.9	0.0	6.5	0.0	0.0	6.5	9.7	16.1	0.0	100.
21	6.5	3.2	3.2	9.7	3.2	6.5	0.0	6.5	12.9	3.2	3.2	0.0	3.2	3.2	19.4	16.1	0.0	100.
22	6.5	3.2	6.5	6.5	0.0	6.5	9.7	3.2	12.9	6.5	0.0	3.2	0.0	3.2	12.9	19.4	0.0	100.
23	9.7	3.2	9.7	12.9	0.0	3.2	6.5	3.2	16.1	3.2	0.0	3.2	0.0	3.2	19.4	6.5	0.0	100.
24	6.5	3.2	12.9	6.5	6.5	6.5	3.2	9.7	9.7	6.5	0.0	3.2	0.0	3.2	12.9	9.7	0.0	100.
ALL	11.8	5.1	3.1	2.7	3.0	5.1	10.2	7.4	10.5	5.2	1.3	1.6	1.9	6.2	13.3	11.2	0.3	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2F

HOURLY WIND ROSES (PERCENT)

JAN-MAR

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	14.4	6.7	1.1	0.0	3.3	4.4	7.8	7.8	7.8	8.9	3.3	1.1	3.3	1.1	11.1	17.8	0.0	100.
2	10.0	5.6	1.1	2.2	1.1	3.3	6.7	7.8	10.0	5.6	4.4	4.4	2.2	4.4	14.4	15.6	1.1	100.
3	10.0	4.4	2.2	0.0	2.2	1.1	7.8	3.3	14.4	5.6	6.7	3.3	2.2	7.8	14.4	13.3	1.1	100.
4	11.1	2.2	2.2	2.2	1.1	4.4	5.6	5.6	11.1	3.3	6.7	0.0	3.3	7.8	16.7	16.7	0.0	100.
5	12.2	2.2	1.1	2.2	3.3	4.4	7.8	5.6	7.8	5.6	4.4	1.1	1.1	8.9	14.4	17.8	0.0	100.
6	10.1	3.4	0.0	0.0	2.2	5.6	13.5	3.4	7.9	4.5	3.4	0.0	4.5	6.7	18.0	16.9	0.0	100.
7	12.5	2.3	0.0	0.0	3.4	4.5	10.2	5.7	10.2	9.1	2.3	2.3	3.4	3.4	12.5	18.2	0.0	100.
8	10.2	3.4	2.3	0.0	1.1	4.5	14.8	10.2	6.8	5.7	2.3	0.0	3.4	6.8	12.5	15.9	0.0	100.
9	13.5	3.4	5.6	0.0	2.2	3.4	13.5	5.6	13.5	4.5	1.1	2.2	2.2	0.0	14.6	14.6	0.0	100.
10	11.1	5.6	2.2	1.1	2.2	4.4	15.6	2.2	14.4	4.4	2.2	2.2	4.4	1.1	8.9	17.8	0.0	100.
11	11.1	4.4	2.2	0.0	1.1	4.4	13.3	3.3	8.9	8.9	6.7	0.0	5.6	3.3	12.2	14.4	0.0	100.
12	13.3	3.3	1.1	1.1	2.2	5.6	12.2	5.6	11.1	8.9	0.0	1.1	4.4	4.4	15.6	10.0	0.0	100.
13	10.1	4.5	1.1	2.2	0.0	5.6	11.2	5.6	9.0	7.9	2.2	2.2	3.4	7.9	13.5	13.5	0.0	100.
14	10.9	5.6	2.2	1.1	1.1	2.2	8.9	8.9	8.9	8.9	2.2	4.4	3.3	6.7	12.2	13.3	0.0	100.
15	12.2	1.1	1.1	2.2	1.1	2.2	15.6	2.2	7.8	8.9	3.3	3.3	8.9	3.3	12.2	14.4	0.0	100.
16	10.0	1.1	2.2	2.2	3.3	3.3	11.1	3.3	5.6	12.2	1.1	2.2	6.7	5.6	17.8	12.2	0.0	100.
17	11.1	4.4	4.4	1.1	3.3	1.1	7.8	3.3	11.1	8.9	4.4	0.0	2.2	7.8	15.6	13.3	0.0	100.
18	11.1	7.8	1.1	0.0	4.4	5.6	5.6	4.4	11.1	4.4	2.2	4.4	2.2	5.6	12.2	17.8	0.0	100.
19	12.2	6.7	1.1	1.1	2.2	5.6	5.6	6.7	8.9	6.7	5.6	1.1	1.1	4.4	11.1	20.0	0.0	100.
20	10.0	10.0	2.2	0.0	3.3	5.6	6.7	3.3	12.2	6.7	5.6	1.1	2.2	2.2	11.1	17.8	0.0	100.
21	8.9	4.4	3.3	4.4	2.2	2.2	7.8	4.4	13.3	5.6	4.4	2.2	4.4	2.2	13.3	16.7	0.0	100.
22	6.7	6.7	2.2	3.3	1.1	4.4	7.8	6.7	15.6	5.6	1.1	2.2	0.0	6.7	10.0	18.9	1.1	100.
23	13.3	3.3	4.4	5.6	0.0	2.2	6.7	8.9	14.4	7.8	0.0	2.2	0.0	4.4	14.4	12.2	0.0	100.
24	10.0	3.3	6.7	2.2	3.3	4.4	11.1	10.0	8.9	2.2	2.2	1.1	4.4	12.2	13.3	0.0	100.	
ALL	11.1	4.4	2.2	1.4	2.1	3.9	9.5	5.6	10.5	7.0	3.3	1.9	3.2	4.9	13.4	15.5	0.1	100.

NUMBER OF OBS = 2153

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1995

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	13.8	10.3	10.3	10.3	3.4	3.4	6.9	6.9	6.9	0.0	0.0	3.4	0.0	6.9	10.3	6.9	0.0	100.
2	20.7	3.4	3.4	10.3	3.4	6.9	6.9	6.9	6.9	3.4	3.4	6.9	0.0	3.4	6.9	6.9	0.0	100.
3	17.2	10.3	6.9	3.4	6.9	3.4	13.8	6.9	3.4	0.0	0.0	3.4	6.9	10.3	6.9	0.0	0.0	100.
4	10.3	17.2	3.4	6.9	6.9	0.0	6.9	10.3	10.3	0.0	0.0	0.0	6.9	6.9	10.3	3.4	0.0	100.
5	10.3	17.2	6.9	10.3	0.0	3.4	3.4	17.2	3.4	3.4	0.0	3.4	3.4	3.4	13.8	0.0	0.0	100.
6	6.9	10.3	6.9	10.3	6.9	0.0	6.9	13.8	3.4	6.9	0.0	0.0	6.9	3.4	13.8	3.4	0.0	100.
7	13.8	0.0	10.3	6.9	13.8	0.0	0.0	10.3	6.9	3.4	3.4	3.4	6.9	6.9	3.4	10.3	0.0	100.
8	20.7	10.3	0.0	3.4	13.8	6.9	3.4	6.9	6.9	0.0	3.4	3.4	6.9	3.4	3.4	6.9	0.0	100.
9	13.8	17.2	3.4	6.9	0.0	10.3	0.0	3.4	13.8	6.9	0.0	6.9	6.9	3.4	0.0	6.9	0.0	100.
10	6.9	17.2	17.2	0.0	0.0	0.0	10.3	6.9	13.8	0.0	0.0	6.9	3.4	10.3	0.0	6.9	0.0	100.
11	14.3	17.9	10.7	3.6	3.6	0.0	3.6	3.6	17.9	3.6	3.6	3.6	3.6	7.1	3.6	0.0	0.0	100.
12	3.6	0.0	17.9	17.9	3.6	0.0	0.0	7.1	7.1	7.1	7.1	3.6	3.6	10.7	3.6	7.1	0.0	100.
13	10.7	0.0	3.6	21.4	7.1	0.0	0.0	7.1	7.1	3.6	10.7	3.6	7.1	7.1	3.6	7.1	0.0	100.
14	6.9	3.4	10.3	13.8	3.4	3.4	0.0	6.9	3.4	10.3	10.3	3.4	3.4	10.3	3.4	6.9	0.0	100.
15	6.9	6.9	10.3	17.2	3.4	0.0	0.0	6.9	6.9	6.9	6.9	6.9	3.4	10.3	3.4	3.4	0.0	100.
16	3.4	3.4	13.8	10.3	10.3	0.0	3.4	3.4	6.9	6.9	6.9	3.4	6.9	13.8	0.0	6.9	0.0	100.
17	3.4	3.4	6.9	10.3	10.3	3.4	0.0	13.8	0.0	6.9	6.9	6.9	0.0	10.3	10.3	6.9	0.0	100.
18	6.9	3.4	10.3	13.8	3.4	6.9	3.4	6.9	3.4	3.4	6.9	0.0	10.3	3.4	10.3	6.9	0.0	100.
19	6.9	3.4	10.3	10.3	6.9	0.0	3.4	13.8	3.4	10.3	0.0	3.4	3.4	10.3	6.9	6.9	0.0	100.
20	3.4	0.0	17.2	10.3	3.4	0.0	6.9	6.9	3.4	13.8	3.4	0.0	3.4	10.3	6.9	10.3	0.0	100.
21	6.9	6.9	13.8	10.3	0.0	0.0	6.9	6.9	6.9	10.3	3.4	6.9	3.4	6.9	6.9	3.4	0.0	100.
22	10.3	6.9	13.8	0.0	6.9	0.0	6.9	10.3	3.4	3.4	10.3	0.0	0.0	13.8	3.4	10.3	0.0	100.
23	10.3	6.9	10.3	6.9	3.4	0.0	6.9	6.9	6.9	6.9	6.9	0.0	0.0	6.9	3.4	17.2	0.0	100.
24	27.6	6.9	10.3	3.4	3.4	6.9	3.4	10.3	0.0	3.4	3.4	0.0	3.4	3.4	13.8	0.0	0.0	100.
ALL	10.7	7.6	9.5	9.1	5.2	2.3	4.3	8.4	6.3	5.1	4.0	3.3	4.2	7.6	6.2	6.1	0.0	100.

NUMBER OF OBS = 693

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1995

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	9.7	3.2	0.0	0.0	6.5	19.4	3.2	12.9	12.9	0.0	6.5	3.2	3.2	6.5	9.7	3.2	0.0	100.
2	12.9	6.5	0.0	3.2	12.9	3.2	12.9	6.5	6.5	6.5	0.0	3.2	0.0	6.5	9.7	9.7	0.0	100.
3	16.1	6.5	3.2	0.0	9.7	6.5	9.7	6.5	16.1	3.2	3.2	0.0	3.2	3.2	3.2	9.7	0.0	100.
4	9.7	9.7	0.0	0.0	3.2	16.1	6.5	12.9	9.7	0.0	3.2	0.0	3.2	9.7	12.9	3.2	0.0	100.
5	9.7	9.7	0.0	6.5	9.7	12.9	16.1	9.7	0.0	0.0	3.2	3.2	3.2	0.0	9.7	6.5	0.0	100.
6	9.7	6.5	3.2	0.0	3.2	12.9	12.9	16.1	9.7	6.5	0.0	0.0	3.2	0.0	6.5	9.7	0.0	100.
7	3.2	16.1	3.2	3.2	3.2	19.4	0.0	12.9	6.5	6.5	3.2	3.2	3.2	0.0	3.2	12.9	0.0	100.
8	12.9	12.9	6.5	0.0	0.0	19.4	9.7	9.7	12.9	0.0	0.0	0.0	0.0	6.5	3.2	6.5	0.0	100.
9	6.5	12.9	9.7	3.2	0.0	12.9	16.1	12.9	9.7	0.0	0.0	0.0	0.0	3.2	6.5	6.5	0.0	100.
10	9.7	16.1	9.7	0.0	3.2	16.1	9.7	3.2	12.9	6.5	0.0	0.0	0.0	3.2	3.2	6.5	0.0	100.
11	12.9	9.7	9.7	3.2	0.0	6.5	22.6	9.7	6.5	6.5	3.2	0.0	0.0	3.2	3.2	3.2	0.0	100.
12	6.5	9.7	12.9	0.0	6.5	3.2	16.1	9.7	6.5	9.7	3.2	0.0	0.0	3.2	6.5	6.5	0.0	100.
13	12.9	6.5	9.7	0.0	6.5	6.5	16.1	3.2	9.7	12.9	0.0	3.2	0.0	3.2	6.5	3.2	0.0	100.
14	3.2	0.0	9.7	3.2	3.2	3.2	22.6	6.5	12.9	6.5	0.0	6.5	0.0	3.2	3.2	16.1	0.0	100.
15	6.5	9.7	6.5	0.0	3.2	3.2	16.1	16.1	6.5	9.7	0.0	6.5	0.0	3.2	6.5	6.5	0.0	100.
16	6.5	6.5	9.7	3.2	3.2	6.5	6.5	16.1	16.1	3.2	3.2	6.5	3.2	3.2	3.2	3.2	0.0	100.
17	9.7	6.5	6.5	0.0	3.2	9.7	16.1	9.7	9.7	6.5	3.2	3.2	3.2	3.2	3.2	6.5	0.0	100.
18	3.2	9.7	3.2	3.2	0.0	16.1	9.7	9.7	9.7	12.9	0.0	6.5	0.0	3.2	6.5	6.5	0.0	100.
19	3.2	3.2	6.5	3.2	6.5	16.1	6.5	6.5	9.7	6.5	6.5	3.2	6.5	0.0	12.9	3.2	0.0	100.
20	3.2	3.2	9.7	0.0	0.0	25.8	3.2	12.9	0.0	3.2	6.5	3.2	9.7	3.2	12.9	3.2	0.0	100.
21	6.5	6.5	3.2	3.2	0.0	19.4	6.5	3.2	12.9	6.5	3.2	6.5	3.2	3.2	9.7	6.5	0.0	100.
22	6.5	6.5	3.2	0.0	6.5	9.7	12.9	0.0	9.7	12.9	0.0	6.5	6.5	3.2	6.5	9.7	0.0	100.
23	16.1	3.2	3.2	0.0	6.5	12.9	6.5	3.2	3.2	19.4	3.2	3.2	3.2	6.5	9.7	0.0	0.0	100.
24	6.5	9.7	3.2	0.0	0.0	12.9	9.7	9.7	9.7	0.0	3.2	9.7	3.2	12.9	6.5	3.2	0.0	100.
ALL	8.5	7.9	5.5	1.5	4.0	12.1	11.2	9.1	9.1	6.0	2.3	3.2	2.4	3.9	6.9	6.3	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUNE

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	3.4	3.4	0.0	3.4	0.0	6.9	3.4	10.3	13.8	6.9	0.0	0.0	3.4	6.9	3.4	34.5	0.0	100.
2	3.4	3.4	0.0	3.4	3.4	3.4	0.0	20.7	6.9	10.3	3.4	0.0	0.0	6.9	20.7	13.8	0.0	100.
3	3.4	6.9	3.4	0.0	3.4	3.4	3.4	6.9	17.2	13.8	3.4	3.4	0.0	3.4	10.3	17.2	0.0	100.
4	6.9	3.4	0.0	3.4	3.4	3.4	6.9	17.2	17.2	10.3	3.4	0.0	0.0	3.4	6.9	13.8	0.0	100.
5	3.4	3.4	3.4	0.0	0.0	3.4	6.9	13.8	13.8	13.8	0.0	3.4	0.0	6.9	10.3	17.2	0.0	100.
6	16.7	0.0	0.0	6.7	0.0	3.3	3.3	3.3	20.0	10.0	6.7	0.0	0.0	3.3	6.7	16.7	0.0	100.
7	0.0	6.7	0.0	0.0	3.3	3.3	3.3	26.7	6.7	3.3	6.7	0.0	3.3	10.0	6.7	20.0	0.0	100.
8	10.0	3.3	0.0	0.0	6.7	0.0	10.0	10.0	16.7	6.7	0.0	0.0	3.3	6.7	6.7	20.0	0.0	100.
9	16.7	3.3	3.3	3.3	0.0	10.0	3.3	6.7	6.7	20.0	0.0	0.0	0.0	3.3	6.7	16.7	0.0	100.
10	16.7	3.3	3.3	0.0	3.3	10.0	6.7	3.3	6.7	23.3	0.0	0.0	0.0	3.3	3.3	16.7	0.0	100.
11	10.0	6.7	6.7	3.3	3.3	10.0	13.3	0.0	0.0	23.3	0.0	0.0	3.3	0.0	3.3	16.7	0.0	100.
12	13.3	3.3	3.3	0.0	3.3	0.0	23.3	3.3	6.7	16.7	0.0	0.0	0.0	3.3	3.3	20.0	0.0	100.
13	13.3	6.7	0.0	0.0	0.0	0.0	20.0	6.7	13.3	13.3	0.0	0.0	0.0	0.0	10.0	16.7	0.0	100.
14	13.3	0.0	0.0	0.0	0.0	3.3	13.3	6.7	20.0	6.7	3.3	0.0	0.0	0.0	10.0	23.3	0.0	100.
15	13.3	0.0	0.0	0.0	0.0	3.3	13.3	6.7	26.7	0.0	0.0	0.0	0.0	0.0	6.7	30.0	0.0	100.
16	13.3	0.0	3.3	0.0	3.3	3.3	10.0	10.0	23.3	3.3	0.0	0.0	0.0	0.0	3.3	26.7	0.0	100.
17	20.0	3.3	0.0	0.0	0.0	3.3	6.7	23.3	10.0	6.7	0.0	0.0	0.0	0.0	3.3	23.3	0.0	100.
18	20.0	3.3	0.0	0.0	0.0	0.0	10.0	16.7	16.7	6.7	0.0	0.0	0.0	3.3	3.3	20.0	0.0	100.
19	10.0	3.3	0.0	0.0	0.0	0.0	10.0	16.7	20.0	6.7	0.0	0.0	0.0	0.0	6.7	26.7	0.0	100.
20	6.9	0.0	3.4	3.4	0.0	0.0	10.3	13.8	24.1	3.4	0.0	0.0	0.0	0.0	6.9	27.6	0.0	100.
21	10.3	3.4	0.0	0.0	0.0	3.4	10.3	17.2	6.9	6.9	0.0	0.0	0.0	0.0	10.3	31.0	0.0	100.
22	6.7	0.0	3.3	0.0	0.0	0.0	6.7	13.3	16.7	6.7	3.3	0.0	0.0	3.3	16.7	23.3	0.0	100.
23	10.0	0.0	0.0	0.0	3.3	3.3	6.7	6.7	20.0	6.7	0.0	0.0	3.3	3.3	10.0	26.7	0.0	100.
24	3.4	0.0	0.0	3.4	0.0	3.4	6.9	3.4	20.7	6.9	3.4	3.4	0.0	3.4	13.8	27.6	0.0	100.
ALL	10.3	2.8	1.4	1.3	1.5	3.4	8.7	11.7	14.2	9.6	1.1	0.4	0.8	3.1	7.9	21.9	0.0	100.

NUMBER OF OBS = 712

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

APR-JUN

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	9.0	5.6	3.4	4.5	3.4	10.1	4.5	10.1	11.2	2.2	2.2	2.2	2.2	6.7	7.9	14.6	0.0	100.
2	12.4	4.5	1.1	5.6	6.7	4.5	6.7	11.2	6.7	6.7	2.2	3.4	0.0	5.6	12.4	10.1	0.0	100.
3	12.4	7.9	4.5	1.1	6.7	4.5	9.0	6.7	12.4	5.6	2.2	2.2	3.4	5.6	6.7	9.0	0.0	100.
4	9.0	10.1	1.1	3.4	4.5	6.7	6.7	13.5	12.4	3.4	2.2	0.0	3.4	6.7	10.1	6.7	0.0	100.
5	7.9	10.1	3.4	5.6	3.4	6.7	9.0	13.5	5.6	5.6	1.1	3.4	2.2	3.4	11.2	7.9	0.0	100.
6	11.1	5.6	3.3	5.6	3.3	5.6	7.8	16.7	7.8	6.7	0.0	0.0	4.4	3.3	8.9	10.0	0.0	100.
7	5.6	7.8	4.4	3.3	6.7	7.8	1.1	16.7	6.7	4.4	4.4	2.2	4.4	5.6	4.4	14.4	0.0	100.
8	14.4	8.9	2.2	1.1	6.7	8.9	7.8	8.9	12.2	2.2	1.1	1.1	3.3	5.6	4.4	11.1	0.0	100.
9	12.2	11.1	5.6	4.4	0.0	11.1	6.7	7.8	10.0	8.9	0.0	2.2	2.2	3.3	4.4	10.0	0.0	100.
10	11.1	12.2	10.0	0.0	2.2	8.9	8.9	4.4	11.1	10.0	0.0	2.2	1.1	5.6	2.2	10.0	0.0	100.
11	12.4	11.2	9.0	3.4	2.2	5.6	13.5	4.5	7.9	11.2	2.2	1.1	2.2	3.4	3.4	6.7	0.0	100.
12	7.9	4.5	11.2	5.6	4.5	1.1	13.5	6.7	6.7	11.2	3.4	1.1	1.1	5.6	4.5	11.2	0.0	100.
13	12.4	4.5	4.5	6.7	4.5	2.2	12.4	5.6	10.1	10.1	3.4	2.2	2.2	3.4	6.7	9.0	0.0	100.
14	7.8	1.1	6.7	5.6	2.2	3.3	12.2	6.7	12.2	7.8	4.4	3.3	1.1	4.4	5.6	15.6	0.0	100.
15	8.9	5.6	5.6	5.6	2.2	2.2	10.0	10.0	13.3	5.6	2.2	4.4	1.1	4.4	5.6	13.3	0.0	100.
16	7.8	3.3	8.9	4.4	5.6	3.3	6.7	10.0	15.6	4.4	3.3	3.3	3.3	5.6	2.2	12.2	0.0	100.
17	11.1	4.4	4.4	3.3	4.4	5.6	7.8	15.6	6.7	6.7	3.3	3.3	1.1	4.4	5.6	12.2	0.0	100.
18	10.0	5.6	4.4	5.6	1.1	7.8	7.8	11.1	10.0	7.8	2.2	2.2	3.3	3.3	6.7	11.1	0.0	100.
19	6.7	3.3	5.6	4.4	4.4	5.6	6.7	12.2	11.1	7.8	2.2	2.2	3.3	3.3	8.9	12.2	0.0	100.
20	4.5	1.1	10.1	4.5	1.1	9.0	6.7	11.2	9.0	6.7	3.4	1.1	4.5	4.5	9.0	13.5	0.0	100.
21	7.9	5.6	5.6	4.5	0.0	7.9	7.9	9.0	9.0	7.9	2.2	4.5	2.2	3.4	9.0	13.5	0.0	100.
22	7.8	4.4	6.7	0.0	4.4	3.3	8.9	7.8	10.0	7.8	4.4	2.2	2.2	6.7	8.9	14.4	0.0	100.
23	12.2	3.3	4.4	2.2	4.4	5.6	6.7	5.6	10.0	11.1	3.3	1.1	2.2	5.6	7.8	14.4	0.0	100.
24	12.4	5.6	4.5	2.2	1.1	7.9	6.7	7.9	10.1	3.4	3.4	4.5	2.2	6.7	11.2	10.1	0.0	100.
ALL	9.8	6.1	5.4	3.9	3.6	6.0	8.1	9.7	9.9	6.9	2.5	2.3	2.5	4.0	7.0	11.4	0.0	100.

NUMBER OF OBS = 2149

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-JUN 1995

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	11.7	6.1	2.2	2.2	3.4	7.3	6.1	8.9	9.5	5.6	2.8	1.7	2.8	3.9	9.5	16.2	0.0	100.
2	11.2	5.0	1.1	3.9	3.9	3.9	6.7	9.5	8.4	6.1	3.4	3.9	1.1	5.0	13.4	12.8	0.6	100.
3	11.2	6.1	3.4	0.6	4.5	2.8	8.4	5.0	13.4	5.6	4.5	2.8	2.8	6.7	10.6	11.2	0.6	100.
4	10.1	6.1	1.7	2.8	2.8	5.6	6.1	9.5	11.7	3.4	4.5	0.0	3.4	7.3	13.4	11.7	0.0	100.
5	10.1	6.1	2.2	3.9	3.4	5.6	8.4	9.5	6.7	5.6	2.8	2.2	1.7	6.1	12.8	12.8	0.0	100.
6	10.6	4.5	1.7	2.8	2.8	5.6	10.6	10.1	7.8	5.6	1.7	0.0	4.5	5.0	13.4	13.4	0.0	100.
7	9.0	5.1	2.2	1.7	5.1	6.2	5.6	11.2	8.4	6.7	3.4	2.2	3.9	4.5	8.4	16.3	0.0	100.
8	12.4	6.2	2.2	0.6	3.9	6.7	11.2	9.6	9.6	3.9	1.7	0.6	3.4	6.2	8.4	13.5	0.0	100.
9	12.8	7.3	5.6	2.2	1.1	7.3	10.1	6.7	11.7	6.7	0.6	2.2	2.2	1.7	9.5	12.3	0.0	100.
10	11.1	8.9	6.1	0.6	2.2	6.7	12.2	3.3	12.8	7.2	1.1	2.2	2.8	3.3	5.6	13.9	0.0	100.
11	11.7	7.8	5.6	1.7	1.7	5.0	13.4	3.9	8.4	10.1	4.5	0.6	3.9	3.4	7.8	10.6	0.0	100.
12	10.6	3.9	6.1	3.4	3.4	3.4	12.8	6.1	8.9	10.1	1.7	1.1	2.8	5.0	10.1	10.6	0.0	100.
13	11.2	4.5	2.8	4.5	2.2	3.9	11.8	5.6	9.6	9.0	2.8	2.2	2.8	5.6	10.1	11.2	0.0	100.
14	8.9	3.3	4.4	3.3	1.7	2.8	10.6	7.8	10.6	8.3	3.3	3.9	2.2	5.6	8.9	14.4	0.0	100.
15	10.6	3.3	3.3	3.9	1.7	2.2	12.8	6.1	10.6	7.2	2.8	3.9	5.0	3.9	8.9	13.9	0.0	100.
16	8.9	2.2	5.6	3.3	4.4	3.3	8.9	6.7	10.6	8.3	2.2	2.8	5.0	5.6	10.0	12.2	0.0	100.
17	11.1	4.4	4.4	2.2	3.9	3.3	7.8	9.4	8.9	7.8	3.9	1.7	1.7	6.1	10.6	12.8	0.0	100.
18	10.6	6.7	2.8	2.8	2.8	6.7	6.7	7.8	10.6	6.1	2.2	3.3	2.8	4.4	9.4	14.4	0.0	100.
19	9.4	5.0	3.3	2.8	3.3	5.6	6.1	9.4	10.0	7.2	3.9	1.7	2.2	3.9	10.0	16.1	0.0	100.
20	7.3	5.6	6.1	2.2	2.2	7.3	6.7	7.3	10.6	6.7	4.5	1.1	3.4	3.4	10.1	15.6	0.0	100.
21	8.4	5.0	4.5	4.5	1.1	5.0	7.8	6.7	11.2	6.7	3.4	3.4	3.4	2.8	11.2	15.1	0.0	100.
22	7.2	5.6	4.4	1.7	2.8	3.9	8.3	7.2	12.8	6.7	2.8	2.2	1.1	6.7	9.4	16.7	0.6	100.
23	12.8	3.3	4.4	3.9	2.2	3.9	6.7	7.2	12.2	9.4	1.7	1.7	1.1	5.0	11.1	13.3	0.0	100.
24	11.2	4.5	5.6	2.2	2.2	6.1	5.6	9.5	10.1	6.1	2.8	3.4	1.7	5.6	11.7	11.7	0.0	100.
ALL	10.4	5.3	3.8	2.6	2.9	5.0	8.8	7.7	10.2	6.9	2.9	2.1	2.8	4.9	10.2	13.5	0.1	100.

NUMBER OF OBS = 4302

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 1995

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	3.2	9.7	0.0	0.0	0.0	3.2	9.7	19.4	22.6	9.7	9.7	3.2	0.0	3.2	3.2	0.0	100.
2	6.5	0.0	0.0	0.0	0.0	0.0	3.2	22.6	19.4	22.6	6.5	0.0	3.2	6.5	0.0	9.7	0.0	100.
3	3.2	0.0	0.0	0.0	0.0	0.0	6.5	12.9	22.6	6.5	12.9	6.5	3.2	0.0	3.2	22.6	0.0	100.
4	6.5	3.2	0.0	0.0	0.0	0.0	9.7	9.7	19.4	22.6	3.2	9.7	0.0	0.0	0.0	16.1	0.0	100.
5	9.7	0.0	0.0	0.0	0.0	3.2	3.2	12.9	25.8	16.1	3.2	9.7	0.0	6.5	0.0	9.7	0.0	100.
6	6.5	0.0	0.0	0.0	3.2	0.0	0.0	35.5	12.9	12.9	3.2	3.2	3.2	0.0	3.2	16.1	0.0	100.
7	9.7	3.2	0.0	3.2	0.0	3.2	6.5	16.1	16.1	16.1	3.2	0.0	3.2	3.2	9.7	6.5	0.0	100.
8	12.9	6.5	0.0	0.0	0.0	0.0	9.7	9.7	22.6	16.1	0.0	3.2	0.0	0.0	3.2	16.1	0.0	100.
9	9.7	6.5	0.0	0.0	6.5	0.0	3.2	9.7	19.4	16.1	9.7	0.0	0.0	3.2	3.2	12.9	0.0	100.
10	19.4	12.9	0.0	0.0	3.2	0.0	0.0	6.5	12.9	22.6	6.5	6.5	3.2	0.0	3.2	3.2	0.0	100.
11	19.4	3.2	3.2	0.0	0.0	3.2	0.0	6.5	19.4	22.6	6.5	6.5	6.5	0.0	0.0	3.2	0.0	100.
12	6.5	9.7	0.0	0.0	9.7	0.0	0.0	6.5	12.9	22.6	6.5	9.7	0.0	6.5	0.0	9.7	0.0	100.
13	9.7	3.2	3.2	3.2	6.5	3.2	0.0	12.9	16.1	12.9	6.5	6.5	3.2	6.5	0.0	6.5	0.0	100.
14	12.9	6.5	0.0	0.0	3.2	3.2	6.5	19.4	19.4	6.5	3.2	0.0	3.2	9.7	3.2	3.2	0.0	100.
15	3.2	3.2	6.5	0.0	0.0	6.5	6.5	3.2	35.5	0.0	6.5	0.0	6.5	6.5	6.5	9.7	0.0	100.
16	3.2	0.0	0.0	0.0	0.0	3.2	6.5	12.9	22.6	9.7	0.0	6.5	0.0	9.7	3.2	22.6	0.0	100.
17	6.7	3.3	3.3	3.3	0.0	3.3	10.0	13.3	20.0	6.7	3.3	6.7	0.0	3.3	10.0	6.7	0.0	100.
18	19.4	3.2	3.2	3.2	0.0	3.2	9.7	19.4	16.1	6.5	0.0	3.2	0.0	3.2	3.2	6.5	0.0	100.
19	6.5	3.2	6.5	6.5	3.2	3.2	9.7	25.8	12.9	0.0	0.0	0.0	0.0	0.0	12.9	9.7	0.0	100.
20	9.7	6.5	3.2	0.0	0.0	3.2	9.7	25.8	6.5	12.9	0.0	0.0	0.0	3.2	6.5	12.9	0.0	100.
21	3.2	3.2	3.2	0.0	3.2	6.5	9.7	16.1	12.9	12.9	0.0	3.2	3.2	3.2	6.5	12.9	0.0	100.
22	9.7	6.5	0.0	0.0	0.0	3.2	19.4	12.9	22.6	9.7	0.0	3.2	0.0	0.0	0.0	12.9	0.0	100.
23	0.0	0.0	0.0	0.0	3.2	0.0	9.7	19.4	12.9	25.8	3.2	0.0	3.2	0.0	0.0	22.6	0.0	100.
24	3.2	0.0	0.0	0.0	0.0	6.5	3.2	25.8	16.1	9.7	9.7	0.0	3.2	0.0	6.5	16.1	0.0	100.
ALL	8.3	3.6	1.7	0.8	1.7	2.3	6.1	15.2	18.2	13.9	4.3	3.9	2.0	3.0	3.6	11.3	0.0	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 1995

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	0.0	0.0	0.0	0.0	0.0	0.0	12.9	25.8	29.0	6.5	0.0	0.0	0.0	0.0	3.2	22.6	0.0	100.
2	6.5	3.2	0.0	0.0	3.2	0.0	9.7	22.6	22.6	12.9	0.0	3.2	0.0	0.0	6.5	9.7	0.0	100.
3	6.5	0.0	0.0	3.2	6.5	0.0	6.5	29.0	16.1	6.5	0.0	0.0	0.0	3.2	3.2	19.4	0.0	100.
4	12.9	3.2	3.2	0.0	3.2	0.0	6.5	25.8	19.4	6.5	6.5	0.0	0.0	3.2	0.0	9.7	0.0	100.
5	9.7	3.2	3.2	0.0	0.0	0.0	16.1	6.5	29.0	6.5	0.0	3.2	0.0	0.0	9.7	12.9	0.0	100.
6	12.9	3.2	0.0	0.0	0.0	0.0	6.5	22.6	22.6	9.7	0.0	3.2	0.0	6.5	3.2	9.7	0.0	100.
7	3.3	6.7	0.0	0.0	0.0	0.0	6.7	33.3	23.3	6.7	3.3	3.3	0.0	0.0	3.3	10.0	0.0	100.
8	12.9	6.5	0.0	3.2	0.0	0.0	12.9	32.3	19.4	3.2	0.0	3.2	3.2	0.0	3.2	0.0	0.0	100.
9	12.9	0.0	3.2	3.2	0.0	6.5	12.9	16.1	29.0	9.7	3.2	3.2	0.0	0.0	0.0	0.0	0.0	100.
10	9.7	0.0	0.0	6.5	3.2	0.0	6.5	25.8	25.8	19.4	0.0	0.0	0.0	3.2	0.0	0.0	0.0	100.
11	6.5	9.7	0.0	0.0	6.5	3.2	6.5	16.1	32.3	16.1	0.0	0.0	0.0	0.0	0.0	3.2	0.0	100.
12	16.1	3.2	0.0	3.2	0.0	6.5	9.7	16.1	32.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
13	6.5	6.5	3.2	3.2	3.2	3.2	12.9	9.7	38.7	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	100.
14	3.2	3.2	0.0	0.0	3.2	9.7	6.5	22.6	38.7	6.5	0.0	0.0	0.0	3.2	0.0	3.2	0.0	100.
15	9.7	3.2	0.0	0.0	6.5	0.0	9.7	32.3	25.8	6.5	0.0	0.0	0.0	0.0	0.0	6.5	0.0	100.
16	6.5	3.2	3.2	0.0	0.0	9.7	16.1	19.4	32.3	6.5	0.0	0.0	0.0	0.0	0.0	3.2	0.0	100.
17	9.7	3.2	0.0	3.2	3.2	0.0	22.6	25.8	25.8	3.2	0.0	0.0	0.0	0.0	0.0	3.2	0.0	100.
18	6.5	9.7	3.2	3.2	0.0	9.7	22.6	25.8	16.1	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	100.
19	6.5	0.0	9.7	0.0	0.0	6.5	29.0	25.8	16.1	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	100.
20	9.7	3.2	0.0	0.0	3.2	6.5	12.9	29.0	16.1	0.0	3.2	3.2	0.0	3.2	3.2	6.5	0.0	100.
21	0.0	6.5	0.0	0.0	3.2	3.2	16.1	22.6	22.6	6.5	3.2	0.0	3.2	0.0	0.0	12.9	0.0	100.
22	6.5	3.2	3.2	0.0	0.0	3.2	16.1	16.1	29.0	3.2	0.0	0.0	6.5	0.0	3.2	9.7	0.0	100.
23	9.7	3.2	0.0	0.0	0.0	3.2	9.7	19.4	38.7	9.7	0.0	0.0	0.0	0.0	0.0	6.5	0.0	100.
24	3.2	3.2	3.2	0.0	0.0	0.0	3.2	22.6	35.5	6.5	3.2	0.0	9.7	0.0	3.2	6.5	0.0	100.
ALL	7.8	3.6	1.5	1.2	1.9	3.0	12.1	22.6	26.5	7.3	1.1	1.1	0.9	0.9	1.7	6.7	0.0	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

SEPTEMBR

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	3.3	6.7	0.0	3.3	3.3	3.3	10.0	26.7	10.0	6.7	3.3	0.0	0.0	3.3	3.3	16.7	0.0	100.
2	13.3	0.0	10.0	6.7	0.0	0.0	10.0	16.7	16.7	3.3	3.3	0.0	0.0	0.0	10.0	10.0	0.0	100.
3	13.3	6.7	0.0	0.0	3.3	3.3	10.0	16.7	6.7	10.0	3.3	3.3	0.0	3.3	6.7	13.3	0.0	100.
4	6.9	6.9	3.4	6.9	3.4	0.0	10.3	10.3	13.8	6.9	3.4	3.4	0.0	0.0	3.4	20.7	0.0	100.
5	16.7	0.0	6.7	3.3	0.0	0.0	16.7	6.7	10.0	6.7	6.7	3.3	0.0	0.0	0.0	23.3	0.0	100.
6	13.3	0.0	3.3	6.7	0.0	0.0	3.3	16.7	23.3	6.7	0.0	3.3	0.0	3.3	0.0	20.0	0.0	100.
7	10.0	0.0	3.3	3.3	0.0	10.0	6.7	10.0	16.7	10.0	0.0	0.0	0.0	3.3	10.0	16.7	0.0	100.
8	16.7	10.0	0.0	3.3	0.0	6.7	13.3	23.3	6.7	6.7	0.0	0.0	0.0	0.0	3.3	10.0	0.0	100.
9	13.3	6.7	6.7	3.3	3.3	6.7	16.7	13.3	6.7	6.7	3.3	3.3	0.0	0.0	0.0	10.0	0.0	100.
10	3.3	16.7	3.3	0.0	6.7	6.7	13.3	10.0	6.7	3.3	6.7	10.0	3.3	0.0	0.0	10.0	0.0	100.
11	3.3	6.7	13.3	0.0	3.3	3.3	13.3	13.3	3.3	6.7	6.7	3.3	6.7	0.0	3.3	10.0	3.3	100.
12	10.3	3.4	6.9	3.4	0.0	13.8	10.3	6.9	13.8	3.4	6.9	6.9	0.0	6.9	0.0	6.9	0.0	100.
13	10.3	0.0	3.4	10.3	3.4	3.4	6.9	10.3	13.8	3.4	6.9	3.4	3.4	6.9	3.4	10.3	0.0	100.
14	3.4	6.9	0.0	6.9	3.4	3.4	13.8	10.3	17.2	6.9	0.0	3.4	3.4	6.9	0.0	13.8	0.0	100.
15	3.4	10.3	0.0	10.3	0.0	0.0	17.2	13.8	6.9	10.3	0.0	6.9	3.4	3.4	3.4	10.3	0.0	100.
16	6.9	6.9	0.0	3.4	10.3	0.0	20.7	10.3	10.3	3.4	0.0	0.0	10.3	3.4	3.4	10.3	0.0	100.
17	6.9	10.3	0.0	3.4	3.4	3.4	24.1	6.9	17.2	0.0	0.0	3.4	3.4	10.3	0.0	6.9	0.0	100.
18	13.3	0.0	3.3	0.0	0.0	6.7	13.3	23.3	13.3	3.3	0.0	3.3	3.3	3.3	0.0	13.3	0.0	100.
19	3.3	3.3	0.0	0.0	0.0	10.0	16.7	13.3	20.0	0.0	3.3	3.3	0.0	3.3	3.3	16.7	3.3	100.
20	6.7	0.0	0.0	0.0	3.3	6.7	10.0	13.3	16.7	3.3	6.7	3.3	0.0	3.3	10.0	16.7	0.0	100.
21	13.3	3.3	0.0	6.7	3.3	3.3	10.0	10.0	13.3	10.0	3.3	0.0	6.7	0.0	3.3	13.3	0.0	100.
22	13.3	3.3	0.0	0.0	0.0	10.0	13.3	10.0	13.3	3.3	0.0	3.3	3.3	3.3	6.7	16.7	0.0	100.
23	3.3	3.3	0.0	6.7	3.3	0.0	23.3	6.7	13.3	6.7	3.3	0.0	6.7	3.3	3.3	16.7	0.0	100.
24	10.0	0.0	0.0	0.0	3.3	0.0	16.7	16.7	16.7	6.7	0.0	0.0	3.3	3.3	6.7	16.7	0.0	100.
ALL	9.1	4.6	2.7	3.6	2.4	4.2	13.3	13.2	12.8	5.6	2.8	2.8	2.4	2.9	3.5	13.7	0.3	100.

NUMBER OF OBS = 713

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 1995

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	2.2	3.3	3.3	1.1	1.1	1.1	8.7	20.7	19.6	12.0	4.3	3.3	1.1	1.1	3.3	14.1	0.0	100.
2	8.7	1.1	3.3	2.2	1.1	0.0	7.6	20.7	19.6	13.0	3.3	1.1	1.1	2.2	5.4	9.8	0.0	100.
3	7.6	2.2	0.0	1.1	3.3	1.1	7.6	19.6	15.2	7.6	5.4	3.3	1.1	2.2	4.3	18.5	0.0	100.
4	8.8	4.4	2.2	2.2	2.2	0.0	8.8	15.4	17.6	12.1	4.4	4.4	0.0	1.1	1.1	15.4	0.0	100.
5	12.0	1.1	3.3	1.1	0.0	1.1	12.0	8.7	21.7	9.8	3.3	5.4	0.0	2.2	3.3	15.2	0.0	100.
6	10.9	1.1	1.1	2.2	1.1	0.0	3.3	25.0	19.6	9.8	1.1	3.3	1.1	3.3	2.2	15.2	0.0	100.
7	7.7	3.3	1.1	2.2	0.0	4.4	6.6	19.8	18.7	11.0	2.2	1.1	1.1	2.2	7.7	11.0	0.0	100.
8	14.1	7.6	0.0	2.2	0.0	2.2	12.0	21.7	16.3	8.7	0.0	2.2	1.1	0.0	3.3	8.7	0.0	100.
9	12.0	4.3	3.3	2.2	3.3	4.3	10.9	13.0	18.5	10.9	5.4	2.2	0.0	1.1	1.1	7.6	0.0	100.
10	10.9	9.8	1.1	2.2	4.3	2.2	6.5	14.1	15.2	15.2	4.3	5.4	2.2	1.1	1.1	4.3	0.0	100.
11	9.8	6.5	5.4	0.0	3.3	3.3	6.5	12.0	18.5	15.2	4.3	3.3	4.3	0.0	1.1	5.4	1.1	100.
12	11.0	5.5	2.2	2.2	3.3	6.6	6.6	9.9	19.8	13.2	4.4	5.5	0.0	4.4	0.0	5.5	0.0	100.
13	8.8	3.3	3.3	5.5	4.4	3.3	6.6	11.0	23.1	8.8	5.5	3.3	2.2	4.4	1.1	5.5	0.0	100.
14	6.6	5.5	0.0	2.2	3.3	5.5	8.8	17.6	25.3	6.6	1.1	1.1	2.2	6.6	1.1	6.6	0.0	100.
15	5.5	5.5	2.2	3.3	2.2	2.2	11.0	16.5	23.1	5.5	2.2	2.2	3.3	3.3	3.3	8.8	0.0	100.
16	5.5	3.3	1.1	1.1	3.3	4.4	14.3	14.3	22.0	6.6	0.0	2.2	3.3	4.4	2.2	12.1	0.0	100.
17	7.8	5.6	1.1	3.3	2.2	2.2	18.9	15.6	21.1	3.3	1.1	3.3	1.1	4.4	3.3	5.6	0.0	100.
18	13.0	4.3	3.3	2.2	0.0	6.5	15.2	22.8	15.2	3.3	0.0	3.3	1.1	2.2	1.1	6.5	0.0	100.
19	5.4	2.2	5.4	2.2	1.1	6.5	18.5	21.7	16.3	0.0	1.1	1.1	0.0	1.1	5.4	10.9	1.1	100.
20	8.7	3.3	1.1	0.0	2.2	5.4	10.9	22.8	13.0	5.4	3.3	2.2	0.0	3.3	6.5	12.0	0.0	100.
21	5.4	4.3	1.1	2.2	3.3	4.3	12.0	16.3	16.3	9.8	2.2	1.1	4.3	1.1	3.3	13.0	0.0	100.
22	9.8	4.3	1.1	0.0	0.0	5.4	16.3	13.0	21.7	5.4	0.0	2.2	3.3	1.1	3.3	13.0	0.0	100.
23	4.3	2.2	0.0	2.2	2.2	1.1	14.1	15.2	21.7	14.1	2.2	0.0	3.3	1.1	1.1	15.2	0.0	100.
24	5.4	1.1	1.1	0.0	1.1	2.2	7.6	21.7	22.8	7.6	4.3	0.0	5.4	1.1	5.4	13.0	0.0	100.
ALL	8.4	4.0	2.0	1.9	2.0	3.1	10.5	17.1	19.2	9.0	2.7	2.6	1.8	2.3	3.0	10.6	0.1	100.

NUMBER OF OBS = 2199

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

OCTOBER

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	0.0	9.7	6.5	0.0	0.0	6.5	3.2	3.2	29.0	6.5	0.0	0.0	16.1	16.1	3.2	0.0	0.0	100.
2	6.5	6.5	3.2	0.0	3.2	3.2	3.2	9.7	19.4	6.5	3.2	0.0	12.9	9.7	3.2	9.7	0.0	100.
3	6.5	3.2	6.5	0.0	3.2	3.2	9.7	16.1	9.7	3.2	3.2	3.2	6.5	16.1	6.5	0.0	3.2	100.
4	0.0	0.0	9.7	0.0	6.5	3.2	6.5	19.4	9.7	3.2	3.2	3.2	6.5	19.4	6.5	3.2	0.0	100.
5	6.5	3.2	3.2	6.5	3.2	0.0	12.9	12.9	12.9	0.0	3.2	6.5	16.1	3.2	9.7	0.0	0.0	100.
6	6.5	0.0	6.5	0.0	9.7	0.0	3.2	16.1	12.9	3.2	0.0	3.2	9.7	12.9	9.7	6.5	0.0	100.
7	0.0	6.5	6.5	0.0	6.5	3.2	6.5	19.4	3.2	12.9	3.2	3.2	9.7	3.2	12.9	3.2	0.0	100.
8	0.0	0.0	6.5	0.0	3.2	6.5	12.9	12.9	9.7	6.5	3.2	9.7	9.7	9.7	6.5	3.2	0.0	100.
9	3.2	0.0	3.2	3.2	3.2	6.5	12.9	12.9	9.7	3.2	0.0	3.2	9.7	9.7	19.4	0.0	0.0	100.
10	0.0	6.5	0.0	6.5	0.0	12.9	12.9	3.2	3.2	16.1	0.0	0.0	12.9	9.7	16.1	0.0	0.0	100.
11	0.0	3.2	0.0	3.2	3.2	3.2	16.1	3.2	6.5	16.1	3.2	0.0	6.5	12.9	19.4	3.2	0.0	100.
12	3.3	3.3	3.3	0.0	3.3	3.3	13.3	0.0	6.7	13.3	6.7	0.0	10.0	13.3	20.0	0.0	0.0	100.
13	3.2	0.0	3.2	3.2	3.2	3.2	9.7	6.5	12.9	9.7	3.2	3.2	9.7	12.9	16.1	0.0	0.0	100.
14	3.2	0.0	3.2	6.5	0.0	6.5	9.7	6.5	3.2	12.9	3.2	9.7	3.2	12.9	19.4	0.0	0.0	100.
15	3.2	0.0	0.0	6.5	6.5	3.2	9.7	6.5	9.7	9.7	0.0	9.7	9.7	9.7	12.9	3.2	0.0	100.
16	3.2	3.2	3.2	6.5	0.0	6.5	12.9	6.5	6.5	9.7	6.5	3.2	9.7	9.7	12.9	0.0	0.0	100.
17	3.2	3.2	0.0	3.2	0.0	6.5	19.4	9.7	6.5	3.2	3.2	9.7	6.5	6.5	16.1	3.2	0.0	100.
18	0.0	3.2	6.5	3.2	6.5	0.0	6.5	16.1	9.7	6.5	0.0	0.0	0.0	6.5	25.8	9.7	0.0	100.
19	12.9	6.5	6.5	3.2	0.0	3.2	3.2	6.5	9.7	6.5	3.2	6.5	0.0	6.5	19.4	6.5	0.0	100.
20	12.9	9.7	0.0	6.5	0.0	3.2	6.5	3.2	16.1	3.2	9.7	0.0	0.0	16.1	6.5	6.5	0.0	100.
21	9.7	9.7	3.2	0.0	6.5	3.2	3.2	19.4	9.7	0.0	0.0	3.2	3.2	12.9	12.9	3.2	0.0	100.
22	6.5	0.0	9.7	0.0	6.5	0.0	6.5	9.7	19.4	3.2	0.0	0.0	9.7	6.5	12.9	9.7	0.0	100.
23	3.2	3.2	3.2	6.5	6.5	3.2	12.9	0.0	16.1	3.2	0.0	0.0	6.5	16.1	9.7	6.5	3.2	100.
24	0.0	3.2	9.7	3.2	6.5	3.2	0.0	12.9	19.4	3.2	0.0	0.0	12.9	12.9	6.5	6.5	0.0	100.
ALL	3.9	3.5	4.3	2.8	3.6	3.9	8.9	9.7	11.3	6.7	2.4	3.2	8.2	11.0	12.7	3.5	0.3	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

NOVEMBER

HR. OF DAY	WIND DIRECTION																	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
1	10.3	0.0	3.4	3.4	0.0	0.0	10.3	17.2	17.2	6.9	0.0	0.0	0.0	10.3	13.8	6.9	0.0	100.
2	10.3	3.4	3.4	0.0	0.0	3.4	10.3	20.7	10.3	3.4	3.4	3.4	0.0	6.9	10.3	10.3	0.0	100.
3	13.8	3.4	0.0	0.0	0.0	0.0	6.9	17.2	13.8	3.4	3.4	0.0	0.0	10.3	10.3	17.2	0.0	100.
4	17.2	0.0	0.0	0.0	0.0	0.0	6.9	17.2	17.2	3.4	3.4	3.4	3.4	3.4	13.8	10.3	0.0	100.
5	10.3	0.0	0.0	0.0	0.0	0.0	3.4	24.1	20.7	0.0	0.0	6.9	6.9	3.4	13.8	10.3	0.0	100.
6	10.3	3.4	0.0	0.0	0.0	0.0	3.4	20.7	24.1	3.4	7.0	0.0	6.9	6.9	10.3	10.3	0.0	100.
7	6.9	0.0	0.0	0.0	0.0	0.0	6.9	17.2	20.7	6.9	0.0	0.0	3.4	3.4	13.8	20.7	0.0	100.
8	6.7	3.3	0.0	0.0	0.0	0.0	6.7	13.3	23.3	6.7	6.7	0.0	3.3	6.7	6.7	16.7	0.0	100.
9	13.3	3.3	0.0	0.0	0.0	0.0	3.3	26.7	16.7	0.0	3.3	0.0	3.3	10.0	6.7	13.3	0.0	100.
10	3.3	3.3	3.3	0.0	0.0	3.3	3.3	6.7	20.0	16.7	3.3	0.0	0.0	3.3	13.3	20.0	0.0	100.
11	13.3	0.0	0.0	0.0	3.3	10.0	0.0	3.3	10.0	16.7	3.3	6.7	0.0	10.0	10.0	13.3	0.0	100.
12	3.3	0.0	3.3	0.0	0.0	10.0	0.0	6.7	10.0	13.3	6.7	0.0	10.0	6.7	10.0	20.0	0.0	100.
13	6.7	0.0	0.0	0.0	0.0	6.7	6.7	6.7	10.0	16.7	0.0	0.0	10.0	16.7	10.0	10.0	0.0	100.
14	3.3	0.0	0.0	0.0	0.0	0.0	10.0	10.0	16.7	3.3	6.7	3.3	3.3	10.0	13.3	20.0	0.0	100.
15	6.7	0.0	0.0	0.0	3.3	6.7	3.3	13.3	13.3	6.7	3.3	3.3	3.3	10.0	6.7	20.0	0.0	100.
16	3.3	3.3	0.0	3.3	0.0	6.7	3.3	10.0	16.7	3.3	3.3	0.0	3.3	6.7	13.3	23.3	0.0	100.
17	3.3	0.0	3.3	3.3	3.3	0.0	3.3	20.0	13.3	0.0	10.0	0.0	0.0	6.7	6.7	26.7	0.0	100.
18	0.0	3.3	0.0	3.3	0.0	3.3	3.3	13.3	16.7	6.7	0.0	3.3	0.0	6.7	23.3	16.7	0.0	100.
19	10.0	0.0	0.0	0.0	3.3	3.3	3.3	13.3	16.7	0.0	3.3	3.3	3.3	3.3	16.7	20.0	0.0	100.
20	13.3	0.0	0.0	3.3	0.0	3.3	6.7	13.3	16.7	0.0	3.3	0.0	6.7	3.3	6.7	23.3	0.0	100.
21	10.0	0.0	3.3	3.3	0.0	0.0	6.7	16.7	16.7	3.3	0.0	3.3	3.3	3.3	13.3	16.7	0.0	100.
22	6.7	0.0	0.0	0.0	3.3	0.0	10.0	16.7	16.7	10.0	0.0	0.0	0.0	10.0	10.0	16.7	0.0	100.
23	6.7	0.0	3.3	0.0	3.3	0.0	13.3	13.3	20.0	3.3	0.0	0.0	3.3	10.0	10.0	13.3	0.0	100.
24	13.3	0.0	0.0	0.0	3.3	0.0	10.0	23.3	13.3	3.3	3.3	0.0	0.0	3.3	10.0	16.7	0.0	100.
ALL	8.4	1.1	1.0	0.8	1.0	2.4	5.9	15.0	16.3	5.8	2.8	1.5	3.1	7.2	11.4	16.4	0.0	100.

NUMBER OF OBS = 713

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

DECEMBER

HR. OF DAY	WIND DIRECTION																	CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
1	10.3	3.4	3.4	0.0	3.4	10.3	13.8	10.3	6.9	3.4	13.8	3.4	3.4	3.4	6.9	3.4	0.0	100.	
2	6.9	3.4	6.9	0.0	6.9	0.0	31.0	6.9	3.4	0.0	3.4	6.9	0.0	6.9	6.9	10.3	0.0	100.	
3	10.3	3.4	6.9	0.0	6.9	0.0	13.8	17.2	6.9	0.0	10.3	3.4	0.0	6.9	3.4	10.3	0.0	100.	
4	10.3	6.9	0.0	0.0	3.4	6.9	13.8	3.4	13.8	3.4	13.8	6.9	0.0	0.0	6.9	10.3	0.0	100.	
5	10.3	10.3	0.0	3.4	3.4	3.4	13.8	10.3	10.3	10.3	3.4	3.4	3.4	0.0	10.3	3.4	0.0	100.	
6	10.3	0.0	3.4	0.0	6.9	6.9	13.8	6.9	10.3	6.9	3.4	6.9	3.4	13.8	6.9	0.0	0.0	100.	
7	10.3	3.4	6.9	6.9	3.4	3.4	13.8	13.8	3.4	3.4	6.9	6.9	0.0	6.9	6.9	3.4	0.0	100.	
8	10.3	6.9	6.9	3.4	3.4	3.4	17.2	6.9	6.9	6.9	3.4	0.0	6.9	3.4	10.3	3.4	0.0	100.	
9	13.3	3.3	6.7	3.3	10.0	3.3	16.7	10.0	0.0	3.3	0.0	6.7	3.3	10.0	10.0	0.0	0.0	100.	
10	10.3	6.9	3.4	10.3	0.0	6.9	17.2	10.3	3.4	0.0	3.4	0.0	6.9	3.4	6.9	10.3	0.0	100.	
11	17.2	3.4	3.4	3.4	6.9	6.9	3.4	13.8	6.9	3.4	0.0	0.0	3.4	6.9	3.4	17.2	0.0	100.	
12	17.9	0.0	10.7	7.1	3.6	3.6	7.1	10.7	14.3	0.0	0.0	0.0	3.6	7.1	3.6	10.7	0.0	100.	
13	14.8	3.7	7.4	0.0	11.1	3.7	7.4	14.8	7.4	0.0	3.7	0.0	3.7	7.4	7.4	7.4	0.0	100.	
14	7.4	7.4	3.7	3.7	11.1	7.4	3.7	18.5	3.7	7.4	0.0	0.0	3.7	7.4	7.4	7.4	0.0	100.	
15	7.4	7.4	3.7	0.0	22.2	0.0	7.4	18.5	0.0	3.7	0.0	7.4	0.0	7.4	3.7	11.1	0.0	100.	
16	3.6	14.3	0.0	10.7	7.1	0.0	7.1	14.3	3.6	3.6	3.6	0.0	7.1	7.1	7.1	10.7	0.0	100.	
17	10.7	3.6	0.0	14.3	3.6	3.6	7.1	14.3	0.0	7.1	3.6	0.0	0.0	7.1	17.9	7.1	0.0	100.	
18	7.1	7.1	0.0	10.7	0.0	3.6	14.3	10.7	0.0	3.6	7.1	3.6	0.0	10.7	7.1	14.3	0.0	100.	
19	10.7	3.6	7.1	7.1	0.0	3.6	10.7	10.7	3.6	7.1	7.1	3.6	3.6	3.6	3.6	14.3	0.0	100.	
20	13.8	6.9	3.4	0.0	3.4	0.0	13.8	6.9	10.3	6.9	0.0	0.0	3.4	6.9	17.2	6.9	0.0	100.	
21	17.2	10.3	0.0	3.4	3.4	0.0	6.9	10.3	6.9	6.9	0.0	3.4	10.3	6.9	3.4	10.3	0.0	100.	
22	10.3	13.8	0.0	0.0	3.4	3.4	3.4	17.2	10.3	6.9	0.0	10.3	0.0	6.9	3.4	10.3	0.0	100.	
23	10.3	6.9	3.4	0.0	3.4	0.0	13.8	13.8	10.3	6.9	3.4	3.4	3.4	3.4	13.8	3.4	0.0	100.	
24	10.3	3.4	3.4	0.0	3.4	6.9	17.2	10.3	6.9	3.4	6.9	6.9	3.4	6.9	6.9	3.4	0.0	100.	
ALL	10.9	5.8	3.8	3.6	5.4	3.6	12.1	11.7	6.3	4.4	4.1	3.5	3.1	6.3	7.6	7.9	0.0	100.	

NUMBER OF OBS = 686

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 1995

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	6.7	4.5	4.5	1.1	1.1	5.6	9.0	10.1	18.0	5.6	4.5	1.1	6.7	10.1	7.9	3.4	0.0	100.
2	7.9	4.5	4.5	0.0	3.4	2.2	14.6	12.4	11.2	3.4	3.4	3.4	4.5	7.9	6.7	10.1	0.0	100.
3	10.1	3.4	4.5	0.0	3.4	1.1	10.1	16.9	10.1	2.2	5.6	2.2	2.2	11.2	6.7	9.0	1.1	100.
4	9.0	2.2	3.4	0.0	3.4	3.4	9.0	13.5	13.5	3.4	6.7	4.5	3.4	7.9	9.0	7.9	0.0	100.
5	9.0	4.5	1.1	3.4	2.2	1.1	10.1	15.7	14.6	3.4	2.2	5.6	9.0	2.2	11.2	4.5	0.0	100.
6	9.0	1.1	3.4	0.0	5.6	2.2	6.7	14.6	15.7	4.5	1.1	3.4	6.7	11.2	9.0	5.6	0.0	100.
7	5.6	3.4	4.5	2.2	3.4	2.2	9.0	16.9	9.0	7.9	3.4	3.4	4.5	4.5	11.2	9.0	0.0	100.
8	5.6	3.3	4.4	1.1	2.2	3.3	12.2	11.1	13.3	6.7	4.4	3.3	6.7	6.7	7.8	7.8	0.0	100.
9	9.9	2.2	3.3	2.2	4.4	3.3	11.0	16.5	8.8	2.2	1.1	3.3	5.5	9.9	12.1	4.4	0.0	100.
10	4.4	5.6	2.2	5.6	0.0	7.8	11.1	6.7	8.9	11.1	2.2	0.0	6.7	5.6	12.2	10.0	0.0	100.
11	10.0	2.2	1.1	2.2	4.4	6.7	6.7	6.7	7.8	12.2	2.2	2.2	3.3	10.0	11.1	11.1	0.0	100.
12	8.0	1.1	5.7	2.3	2.3	5.7	6.8	5.7	10.2	9.1	4.5	0.0	8.0	9.1	11.4	10.2	0.0	100.
13	8.0	1.1	3.4	1.1	4.5	4.5	8.0	9.1	10.2	9.1	2.3	1.1	8.0	12.5	11.4	5.7	0.0	100.
14	4.5	2.3	2.3	3.4	3.4	4.5	8.0	11.4	8.0	8.0	3.4	4.5	3.4	10.2	13.6	9.1	0.0	100.
15	5.7	2.3	1.1	2.3	10.2	3.4	6.8	12.5	8.0	6.8	1.1	6.8	4.5	9.1	8.0	11.4	0.0	100.
16	3.4	6.7	1.1	6.7	2.2	4.5	7.9	10.1	9.0	5.6	4.5	1.1	6.7	7.9	11.2	11.2	0.0	100.
17	5.6	2.2	1.1	6.7	2.2	3.4	10.1	14.6	6.7	3.4	5.6	3.4	2.2	6.7	13.5	12.4	0.0	100.
18	2.2	4.5	2.2	5.6	2.2	2.2	7.9	13.5	9.0	5.6	2.2	2.2	0.0	7.9	19.1	13.5	0.0	100.
19	11.2	3.4	4.5	3.4	1.1	3.4	5.6	10.1	10.1	4.5	4.5	4.5	2.2	4.5	13.5	13.5	0.0	100.
20	13.3	5.6	1.1	3.3	1.1	2.2	8.9	7.8	14.4	3.3	4.4	0.0	3.3	8.9	10.0	12.2	0.0	100.
21	12.2	6.7	2.2	2.2	3.3	1.1	5.6	15.6	11.1	3.3	0.0	3.3	5.6	7.8	10.0	10.0	0.0	100.
22	7.8	4.4	3.3	0.0	4.4	1.1	6.7	14.4	15.6	6.7	0.0	3.3	3.3	7.8	8.9	12.2	0.0	100.
23	6.7	3.3	3.3	2.2	4.4	1.1	13.3	8.9	15.6	4.4	1.1	1.1	4.4	10.0	11.1	7.8	1.1	100.
24	7.8	2.2	4.4	1.1	4.4	3.3	8.9	15.6	13.3	3.3	3.3	2.2	5.6	7.8	7.8	8.9	0.0	100.
ALL	7.7	3.5	3.0	2.4	3.3	3.3	8.9	12.1	11.3	5.6	3.1	2.8	4.9	8.2	10.6	9.2	0.1	100.

NUMBER OF OBS = 2142

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-DEC 1995

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	4.4	3.9	3.9	1.1	1.1	3.3	8.8	15.5	18.8	8.8	4.4	2.2	3.9	5.5	5.5	8.8	0.0	100.
2	8.3	2.8	3.9	1.1	2.2	1.1	11.0	16.6	15.5	8.3	3.3	2.2	2.8	5.0	6.1	9.9	0.0	100.
3	8.8	2.8	2.2	0.6	3.3	1.1	8.8	18.2	12.7	5.0	5.5	2.8	1.7	6.6	5.5	13.8	0.6	100.
4	8.9	3.3	2.8	1.1	2.8	1.7	8.9	14.4	15.6	7.8	5.6	4.4	1.7	4.4	5.0	11.7	0.0	100.
5	10.5	2.8	2.2	2.2	1.1	1.1	11.0	12.2	18.2	6.6	2.8	5.5	4.4	2.2	7.2	9.9	0.0	100.
6	9.9	1.1	2.2	1.1	3.3	1.1	5.0	19.9	17.7	7.2	1.1	3.3	3.9	7.2	5.5	10.5	0.9	100.
7	6.7	3.3	2.8	2.2	1.7	3.3	7.8	18.3	13.9	9.4	2.8	2.2	2.8	3.3	9.4	10.0	0.0	100.
8	9.9	5.5	2.2	1.6	1.1	2.7	12.1	16.5	14.8	7.7	2.2	2.7	3.8	3.3	5.5	8.2	0.0	100.
9	10.9	3.3	3.3	2.2	3.8	3.8	10.9	14.8	13.7	6.6	3.3	2.7	2.7	5.5	6.6	5.0	0.0	100.
10	7.7	7.7	1.6	3.8	2.2	4.9	8.8	10.4	12.1	13.2	3.3	2.7	4.4	3.3	6.6	7.1	0.0	100.
11	9.9	4.4	3.3	1.1	3.8	4.9	6.6	9.3	13.2	13.7	3.3	2.7	3.8	4.9	6.0	8.2	0.5	100.
12	9.5	3.4	3.9	2.2	2.8	6.1	6.7	7.8	15.1	11.2	4.5	2.8	3.9	6.7	5.6	7.8	0.0	100.
13	8.4	2.2	3.4	3.4	4.5	3.9	7.3	10.1	16.8	8.9	3.9	2.2	5.0	8.4	6.1	5.6	0.0	100.
14	5.6	3.9	1.1	2.8	3.4	5.0	8.4	14.5	16.8	7.3	2.2	2.8	2.8	8.4	7.3	7.8	0.0	100.
15	5.6	3.9	1.7	2.8	6.1	2.8	8.9	14.5	15.6	6.1	1.7	4.5	3.9	6.1	5.6	10.1	0.0	100.
16	4.4	5.0	1.1	3.9	2.8	4.4	11.1	12.2	15.6	6.1	2.2	1.7	5.0	6.1	6.7	11.7	0.0	100.
17	6.7	3.9	1.1	5.0	2.2	2.8	14.5	15.1	14.0	3.4	3.4	3.4	1.7	5.6	8.4	8.9	0.0	100.
18	7.7	4.4	2.8	3.0	1.1	4.4	11.6	18.2	12.2	4.4	1.1	2.8	0.6	5.0	9.9	9.9	0.0	100.
19	8.3	2.8	5.0	2.8	1.1	5.0	12.2	16.0	13.3	2.2	2.8	2.8	1.1	2.8	9.4	12.2	0.6	100.
20	11.0	4.4	1.1	1.6	1.6	3.8	9.9	15.4	13.7	4.4	3.8	1.1	1.6	6.0	8.2	12.1	0.0	100.
21	8.8	5.5	1.6	2.2	3.3	2.7	8.8	15.9	13.7	6.6	1.1	2.2	4.9	4.4	6.6	11.5	0.0	100.
22	8.8	4.4	2.2	0.0	2.2	3.3	11.5	13.7	18.7	6.0	0.0	2.7	3.3	4.4	6.0	12.6	0.0	100.
23	5.5	2.7	1.6	2.2	3.3	1.1	13.7	12.1	18.7	9.3	1.6	0.5	3.8	5.5	6.0	11.5	0.5	100.
24	6.6	1.6	2.7	0.5	2.7	2.7	8.2	18.7	18.1	5.5	3.8	1.1	5.5	4.4	6.6	11.0	0.0	100.
ALL	8.0	3.7	2.5	2.1	2.6	3.2	9.7	14.6	15.3	7.3	2.9	2.7	3.3	5.2	6.7	9.9	0.1	100.

NUMBER OF OBS = 4341

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-DEC 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-DEC

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	8.1	5.0	3.1	1.7	2.2	5.3	7.5	12.2	14.2	7.2	3.6	1.9	3.3	4.7	7.5	12.5	0.0	100.
2	9.7	3.9	2.5	2.5	3.1	2.5	8.9	13.1	11.9	7.2	3.3	3.1	1.9	5.1	9.7	11.4	0.3	100.
3	10.0	4.4	2.8	0.6	3.9	1.9	8.6	11.7	13.1	5.3	5.0	2.8	2.2	6.7	8.1	12.5	0.6	100.
4	9.5	4.7	2.2	1.9	2.8	3.6	7.5	12.0	13.6	5.6	5.0	2.2	2.5	5.8	9.2	11.7	0.0	100.
5	10.3	4.4	2.2	3.1	2.2	3.3	9.7	10.8	12.5	6.1	2.8	3.9	3.1	4.2	10.0	11.4	0.0	100.
6	10.3	2.8	1.9	1.9	3.1	3.3	7.8	15.0	12.8	6.4	1.4	1.7	4.2	6.1	9.4	11.9	0.0	100.
7	7.8	4.2	2.5	2.0	3.4	4.7	6.7	14.8	11.2	8.1	3.1	2.2	3.4	3.9	8.9	13.1	0.0	100.
8	11.1	5.8	2.2	1.1	2.5	4.7	11.7	13.1	12.2	5.8	1.9	1.7	3.6	4.7	6.9	10.8	0.0	100.
9	11.9	5.2	4.4	2.2	2.5	5.5	10.5	10.8	12.7	6.6	1.9	2.5	2.5	3.6	8.0	9.1	0.0	100.
10	9.4	8.3	3.9	2.2	2.2	5.8	10.5	6.9	12.4	10.2	2.2	2.5	3.6	3.3	6.1	10.5	0.0	100.
11	10.8	6.1	4.4	1.4	2.8	5.0	10.0	6.6	10.8	11.9	3.9	1.7	3.9	4.2	6.9	9.4	0.3	100.
12	10.1	3.6	5.0	2.8	3.1	4.7	9.8	7.0	12.0	10.6	3.1	2.0	3.4	5.9	7.9	9.2	0.0	100.
13	9.8	3.4	3.1	3.9	3.4	3.9	9.5	7.8	13.2	9.0	3.4	2.2	3.9	7.0	8.1	8.4	0.0	100.
14	7.2	3.6	2.8	3.1	2.5	3.9	9.5	11.1	13.6	7.8	2.8	3.3	2.5	7.0	8.1	11.1	0.0	100.
15	8.1	3.6	2.5	3.3	3.9	2.5	10.9	10.3	13.1	6.7	2.2	4.2	4.5	5.0	7.2	12.0	0.0	100.
16	6.7	3.6	3.3	3.6	3.6	3.9	10.0	9.4	13.1	7.2	2.2	2.2	5.0	5.8	8.3	11.9	0.0	100.
17	8.9	4.2	2.8	3.6	3.1	3.1	11.1	12.3	11.4	5.6	3.6	2.5	1.7	5.8	9.5	10.9	0.0	100.
18	9.1	5.5	2.8	3.3	1.9	5.5	9.1	13.0	11.4	5.3	1.7	3.0	1.7	4.7	7.7	12.2	0.0	100.
19	8.9	3.9	4.2	2.8	2.2	5.3	9.1	12.7	11.6	4.7	3.3	2.2	1.7	3.3	9.7	14.1	0.3	100.
20	9.1	5.0	3.6	1.9	1.9	5.5	8.3	11.4	12.2	5.5	4.2	1.1	2.5	4.7	9.1	13.9	0.0	100.
21	8.6	5.3	3.0	3.3	2.2	3.9	8.3	11.4	12.5	6.6	2.2	2.8	4.2	3.6	8.9	13.3	0.0	100.
22	8.0	5.0	3.3	0.8	2.5	3.6	9.9	10.5	15.7	6.4	1.4	2.5	2.2	5.5	7.7	14.6	0.3	100.
23	9.1	3.0	3.0	3.0	2.8	2.5	10.2	9.7	15.5	9.4	1.7	1.1	2.5	5.2	8.6	12.4	0.3	100.
24	8.9	3.0	4.2	1.4	2.5	4.4	6.9	14.1	14.1	5.8	3.3	2.2	3.6	5.0	9.1	11.4	0.0	100.
ALL	9.2	4.5	3.2	2.4	2.8	4.1	9.3	11.2	12.8	7.1	2.9	2.4	3.1	5.0	8.4	11.7	0.1	100.

NUMBER OF OBS = 8643

Wind Direction Frequencies

100-Meter Level

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JANUARY

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	3.2	9.7	6.5	0.0	0.0	6.5	6.5	9.7	3.2	3.2	9.7	0.0	6.5	0.0	19.4	16.1	0.0	100.
2	12.9	0.0	3.2	0.0	6.5	3.2	3.2	9.7	6.5	3.2	3.2	3.2	3.2	6.5	16.1	19.4	0.0	100.
3	12.9	0.0	0.0	3.2	0.0	3.2	16.1	3.2	6.5	3.2	0.0	3.2	3.2	6.5	29.0	9.7	0.0	100.
4	12.9	3.2	0.0	3.2	0.0	6.5	6.5	6.5	6.5	3.2	3.2	3.2	3.2	6.5	16.1	19.4	0.0	100.
5	6.5	6.5	0.0	3.2	0.0	6.5	12.9	3.2	3.2	3.2	3.2	0.0	6.5	6.5	12.9	25.8	0.0	100.
6	6.5	6.5	0.0	0.0	3.2	3.2	16.1	3.2	6.5	0.0	3.2	0.0	6.5	12.9	6.5	25.8	0.0	100.
7	10.0	0.0	6.7	0.0	0.0	6.7	13.3	6.7	6.7	0.0	3.3	0.0	6.7	10.0	6.7	23.3	0.0	100.
8	13.3	3.3	3.3	0.0	0.0	6.7	20.0	3.3	6.7	0.0	3.3	0.0	6.7	6.7	13.3	13.3	0.0	100.
9	10.0	3.3	3.3	0.0	0.0	3.3	23.3	6.7	3.3	0.0	3.3	0.0	6.7	6.7	13.3	16.7	0.0	100.
10	9.7	3.2	3.2	0.0	3.2	6.5	19.4	3.2	3.2	0.0	0.0	0.0	12.9	9.7	9.7	16.1	0.0	100.
11	9.7	3.2	3.2	3.2	0.0	3.2	12.9	9.7	6.5	0.0	3.2	0.0	6.5	6.5	19.4	12.9	0.0	100.
12	9.7	6.5	0.0	0.0	3.2	3.2	9.7	9.7	3.2	0.0	6.5	3.2	6.5	6.5	22.6	9.7	0.0	100.
13	3.2	9.7	0.0	0.0	3.2	0.0	12.9	9.7	3.2	6.5	3.2	0.0	6.5	9.7	16.1	16.1	0.0	100.
14	9.7	3.2	6.5	0.0	3.2	3.2	6.5	9.7	6.5	6.5	0.0	3.2	6.5	9.7	16.1	9.7	0.0	100.
15	9.7	6.5	0.0	3.2	0.0	0.0	12.9	6.5	3.2	9.7	0.0	3.2	9.7	6.5	12.9	16.1	0.0	100.
16	9.7	3.2	0.0	3.2	0.0	3.2	9.7	6.5	3.2	9.7	0.0	3.2	3.2	9.7	22.6	12.9	0.0	100.
17	0.0	6.5	6.5	0.0	3.2	0.0	6.5	9.7	9.7	3.2	0.0	0.0	6.5	6.5	22.6	19.4	0.0	100.
18	9.7	6.5	0.0	6.5	0.0	3.2	6.5	9.7	6.5	3.2	0.0	3.2	3.2	3.2	16.1	19.4	3.2	100.
19	6.5	9.7	0.0	9.7	0.0	0.0	9.7	9.7	3.2	6.5	3.2	3.2	6.5	0.0	12.9	19.4	0.0	100.
20	9.7	6.5	0.0	6.5	0.0	3.2	12.9	3.2	6.5	9.7	0.0	3.2	3.2	3.2	12.9	19.4	0.0	100.
21	12.9	3.2	6.5	3.2	0.0	0.0	12.9	6.5	3.2	6.5	6.5	0.0	3.2	9.7	6.5	19.4	0.0	100.
22	3.2	12.9	0.0	0.0	3.2	3.2	12.9	6.5	6.5	0.0	9.7	0.0	3.2	9.7	6.5	22.6	0.0	100.
23	6.5	6.5	0.0	3.2	3.2	3.2	9.7	9.7	3.2	6.5	6.5	3.2	0.0	3.2	12.9	22.6	0.0	100.
24	6.5	3.2	6.5	3.2	0.0	3.2	6.5	9.7	6.5	6.5	6.5	6.5	0.0	0.0	16.1	19.4	0.0	100.
ALL	8.5	5.1	2.3	2.2	1.3	3.4	11.6	7.2	5.1	3.8	3.2	1.8	5.3	6.5	15.0	17.7	0.1	100.

NUMBER OF OBS = 741

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

FEBRUARY

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	14.3	3.6	0.0	3.6	0.0	0.0	7.1	3.6	0.0	10.7	21.4	3.6	0.0	0.0	14.3	17.9	0.0	100.
2	14.3	3.6	0.0	0.0	3.6	0.0	3.6	3.6	0.0	0.0	28.6	3.6	3.6	3.6	7.1	21.4	3.6	100.
3	17.9	0.0	0.0	0.0	0.0	3.6	3.6	0.0	0.0	7.1	21.4	3.6	3.6	10.7	14.3	14.3	0.0	100.
4	14.3	7.1	0.0	0.0	0.0	3.6	3.6	0.0	0.0	10.7	14.3	0.0	3.6	7.1	17.9	17.9	0.0	100.
5	14.3	0.0	0.0	3.6	0.0	0.0	10.7	0.0	3.6	7.1	10.7	0.0	0.0	3.6	17.9	25.0	3.6	100.
6	11.1	0.0	0.0	0.0	0.0	0.0	7.4	11.1	0.0	7.4	7.4	3.7	0.0	3.7	11.1	33.3	3.7	100.
7	14.8	0.0	0.0	0.0	0.0	0.0	7.4	7.4	3.7	14.8	3.7	3.7	0.0	0.0	18.5	25.9	0.0	100.
8	18.5	0.0	0.0	0.0	3.7	0.0	3.7	0.0	7.4	7.4	14.8	3.7	3.7	0.0	14.8	22.2	0.0	100.
9	3.6	10.7	7.1	0.0	0.0	0.0	3.6	0.0	10.7	10.7	10.7	3.6	0.0	7.1	7.1	25.0	0.0	100.
10	7.1	7.1	3.6	3.6	3.6	3.6	3.6	0.0	10.7	7.1	17.9	0.0	0.0	3.6	3.6	25.0	0.0	100.
11	10.7	7.1	7.1	0.0	0.0	0.0	7.1	0.0	10.7	17.9	7.1	3.6	0.0	3.6	3.6	17.9	3.6	100.
12	17.9	3.6	3.6	0.0	0.0	7.1	7.1	7.1	7.1	7.1	14.3	0.0	3.6	0.0	3.6	17.9	0.0	100.
13	14.3	0.0	3.6	0.0	0.0	3.6	17.9	3.6	7.1	10.7	7.1	0.0	7.1	0.0	3.6	21.4	0.0	100.
14	7.1	0.0	3.6	3.6	3.6	0.0	10.7	7.1	7.1	10.7	7.1	7.1	0.0	0.0	17.9	14.3	0.0	100.
15	10.7	0.0	3.6	0.0	0.0	10.7	10.7	3.6	0.0	14.3	10.7	0.0	3.6	7.1	7.1	17.9	0.0	100.
16	10.7	0.0	0.0	3.6	7.1	7.1	3.6	7.1	0.0	14.3	3.6	3.6	10.7	0.0	10.7	17.9	0.0	100.
17	14.3	0.0	0.0	3.6	7.1	3.6	3.6	7.1	0.0	14.3	10.7	3.6	0.0	3.6	14.3	14.3	0.0	100.
18	7.1	7.1	3.6	0.0	3.6	0.0	7.1	3.6	7.1	17.9	0.0	7.1	0.0	0.0	10.7	25.0	0.0	100.
19	10.7	3.6	3.6	0.0	0.0	7.1	3.6	3.6	3.6	17.9	7.1	3.6	3.6	0.0	0.0	32.1	0.0	100.
20	10.7	14.3	0.0	0.0	0.0	7.1	3.6	7.1	0.0	17.9	7.1	3.6	3.6	0.0	3.6	17.9	3.6	100.
21	7.1	10.7	3.6	3.6	7.1	0.0	3.6	10.7	0.0	17.9	7.1	0.0	3.6	0.0	10.7	14.3	0.0	100.
22	10.7	10.7	3.6	0.0	0.0	3.6	3.6	10.7	3.6	14.3	10.7	0.0	0.0	3.6	7.1	17.9	0.0	100.
23	14.3	14.3	0.0	0.0	3.6	0.0	3.6	7.1	0.0	21.4	10.7	0.0	0.0	0.0	7.1	17.9	0.0	100.
24	28.6	0.0	3.6	0.0	0.0	0.0	7.1	3.6	0.0	10.7	25.0	0.0	0.0	0.0	10.7	10.7	0.0	100.
ALL	12.7	4.3	2.1	1.0	1.8	2.5	6.1	4.5	3.4	12.1	11.7	2.4	2.1	2.4	9.9	20.2	0.7	100.

NUMBER OF OBS = 669

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1995

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	6.3	12.5	6.3	6.3	0.0	12.5	6.3	0.0	31.3	6.3	0.0	0.0	0.0	0.0	0.0	12.5	0.0	100.
2	12.5	6.3	6.3	0.0	12.5	0.0	6.3	0.0	25.0	12.5	0.0	0.0	0.0	0.0	6.3	6.3	6.3	100.
3	12.5	12.5	6.3	0.0	0.0	6.3	6.3	6.3	18.8	6.3	6.3	0.0	0.0	6.3	0.0	12.5	0.0	100.
4	18.8	12.5	0.0	0.0	0.0	6.3	6.3	6.3	18.8	6.3	0.0	6.3	0.0	6.3	0.0	12.5	0.0	100.
5	18.8	12.5	0.0	0.0	0.0	0.0	18.8	6.3	12.5	6.3	0.0	6.3	0.0	0.0	6.3	12.5	0.0	100.
6	12.5	6.3	12.5	0.0	0.0	0.0	12.5	18.8	0.0	12.5	6.3	0.0	0.0	0.0	6.3	12.5	0.0	100.
7	12.5	6.3	12.5	0.0	0.0	0.0	12.5	12.5	12.5	12.5	0.0	0.0	0.0	0.0	6.3	12.5	0.0	100.
8	12.5	6.3	12.5	0.0	0.0	0.0	12.5	0.0	25.0	12.5	0.0	0.0	0.0	0.0	0.0	18.8	0.0	100.
9	12.5	12.5	0.0	6.3	6.3	0.0	12.5	0.0	12.5	18.8	0.0	6.3	0.0	0.0	0.0	12.5	0.0	100.
10	12.5	12.5	0.0	6.3	0.0	6.3	6.3	6.3	18.8	12.5	0.0	0.0	0.0	0.0	6.3	12.5	0.0	100.
11	18.8	12.5	0.0	6.3	0.0	0.0	6.3	6.3	6.3	18.8	6.3	0.0	0.0	6.3	0.0	12.5	0.0	100.
12	18.8	12.5	6.3	6.3	0.0	0.0	6.3	6.3	18.8	12.5	0.0	0.0	0.0	0.0	12.5	0.0	0.0	100.
13	20.0	13.3	6.7	6.7	0.0	0.0	6.7	0.0	20.0	13.3	0.0	0.0	0.0	0.0	13.3	0.0	0.0	100.
14	25.0	12.5	6.3	0.0	0.0	0.0	6.3	0.0	18.8	12.5	6.3	0.0	0.0	0.0	0.0	12.5	0.0	100.
15	20.0	6.7	13.3	0.0	0.0	0.0	6.7	0.0	20.0	13.3	0.0	0.0	0.0	0.0	6.7	13.3	0.0	100.
16	6.7	6.7	6.7	0.0	0.0	6.7	6.7	0.0	26.7	6.7	0.0	0.0	0.0	0.0	20.0	13.3	0.0	100.
17	20.0	13.3	6.7	6.7	0.0	0.0	6.7	0.0	20.0	13.3	0.0	0.0	0.0	0.0	6.7	6.7	0.0	100.
18	13.3	6.7	6.7	0.0	0.0	20.0	0.0	0.0	26.7	13.3	0.0	0.0	0.0	0.0	6.7	6.7	0.0	100.
19	6.7	20.0	0.0	6.7	0.0	6.7	6.7	0.0	26.7	6.7	0.0	0.0	0.0	0.0	0.0	13.3	6.7	100.
20	6.7	13.3	6.7	0.0	0.0	20.0	6.7	6.7	20.0	6.7	0.0	0.0	0.0	0.0	0.0	13.3	0.0	100.
21	6.7	6.7	6.7	6.7	0.0	6.7	6.7	13.3	20.0	13.3	0.0	0.0	0.0	0.0	0.0	13.3	0.0	100.
22	13.3	0.0	6.7	6.7	6.7	6.7	6.7	6.7	20.0	13.3	0.0	0.0	0.0	0.0	0.0	13.3	0.0	100.
23	6.7	6.7	0.0	13.3	6.7	6.7	6.7	0.0	26.7	13.3	0.0	0.0	0.0	0.0	6.7	6.7	0.0	100.
24	6.7	0.0	13.3	6.7	6.7	6.7	6.7	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0	100.
ALL	13.4	9.7	5.9	3.5	1.6	4.6	7.8	4.0	20.1	11.0	1.1	0.8	0.0	0.8	4.3	11.0	0.5	100.

NUMBER OF OBS = 373

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-MAR

HR. OF DAY	WIND DIRECTION																	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	
1	8.0	8.0	4.0	2.7	0.0	5.3	6.7	5.3	8.0	6.7	12.0	1.3	2.7	0.0	13.3	16.0	0.0	100.
2	13.3	2.7	2.7	0.0	6.7	1.3	4.0	5.3	8.0	4.0	12.0	2.7	2.7	4.0	10.7	17.3	2.7	100.
3	14.7	2.7	1.3	1.3	0.0	4.0	9.3	2.7	6.7	5.3	9.3	2.7	2.7	8.0	17.3	12.0	0.0	100.
4	14.7	6.7	0.0	1.3	0.0	5.3	5.3	4.0	6.7	6.7	6.7	2.7	2.7	6.7	13.3	17.3	0.0	100.
5	12.0	5.3	0.0	2.7	0.0	2.7	13.3	2.7	5.3	5.3	5.3	1.3	2.7	4.0	13.3	22.7	1.3	100.
6	9.5	4.1	2.7	0.0	1.4	1.4	12.2	9.5	2.7	5.4	5.4	1.4	2.7	6.8	8.1	25.7	1.4	100.
7	12.3	1.4	5.5	0.0	0.0	2.7	11.0	8.2	6.8	8.2	2.7	1.4	2.7	4.1	11.0	21.9	0.0	100.
8	15.1	2.7	4.1	0.0	1.4	2.7	12.3	1.4	11.0	5.5	6.8	1.4	4.1	2.7	11.0	17.8	0.0	100.
9	8.1	8.1	4.1	1.4	1.4	1.4	13.5	2.7	8.1	8.1	5.4	2.7	2.7	5.4	8.1	18.9	0.0	100.
10	9.3	6.7	2.7	2.7	2.7	5.3	10.7	2.7	9.3	5.3	6.7	0.0	5.3	5.3	6.7	18.7	0.0	100.
11	12.0	6.7	4.0	2.7	0.0	1.3	9.3	5.3	8.0	10.7	5.3	1.3	2.7	5.3	9.3	14.7	1.3	100.
12	14.7	6.7	2.7	1.3	1.3	4.0	8.0	8.0	8.0	5.3	8.0	1.3	4.0	2.7	13.3	10.7	0.0	100.
13	10.8	6.8	2.7	1.4	1.4	1.4	13.5	5.4	8.1	9.5	4.1	0.0	5.4	4.1	10.8	14.9	0.0	100.
14	12.0	4.0	5.3	1.3	2.7	1.3	8.0	6.7	9.3	9.3	4.0	4.0	2.7	4.0	13.3	12.0	0.0	100.
15	12.2	4.1	4.1	1.4	0.0	4.1	10.8	4.1	5.4	12.2	4.1	1.4	5.4	5.4	9.5	16.2	0.0	100.
16	9.5	7	1.4	2.7	2.7	5.4	6.8	5.4	6.8	10.8	1.4	2.7	5.4	4.1	17.6	14.9	0.0	100.
17	9.5	5	4.1	2.7	4.1	1.4	5.4	6.8	8.1	9.5	4.1	1.4	2.7	4.1	16.2	14.9	0.0	100.
18	9.5	6.8	2.7	2.7	1.4	5.4	5.4	5.4	10.8	10.8	0.0	4.1	1.4	1.4	12.2	16.9	1.4	100.
19	8.1	9.5	1.4	5.4	0.0	4.1	6.8	5.4	8.1	10.8	4.1	2.7	4.1	0.0	5.4	23.0	1.4	100.
20	9.5	10.8	1.4	2.7	0.0	8.1	8.1	5.4	6.8	12.2	2.7	2.7	2.7	1.4	6.8	17.6	1.4	100.
21	9.5	6.8	5.4	4.1	2.7	1.4	8.1	9.5	5.4	12.2	5.4	0.0	2.7	4.1	6.8	16.2	0.0	100.
22	8.1	9.5	2.7	1.4	2.7	4.1	8.1	8.1	8.1	8.1	8.1	0.0	1.4	5.4	5.4	18.9	0.0	100.
23	9.5	9.5	0.0	4.1	4.1	2.7	6.8	6.8	6.8	13.5	6.8	1.4	0.0	1.4	9.5	17.6	0.0	100.
24	14.9	1.4	6.8	2.7	1.4	2.7	6.8	5.4	10.8	6.8	12.2	2.7	0.0	0.0	10.8	14.9	0.0	100.
ALL	11.1	5.8	3.0	2.0	1.6	3.3	8.7	5.5	7.6	8.4	5.9	1.8	3.0	3.8	10.8	17.2	0.4	100.

NUMBER OF OBS = 1783

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

APRIL

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
2	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
3	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
4	0.0	0.0	0.0	0.0	20.0	20.0	0.0	20.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
5	0.0	0.0	0.0	0.0	20.0	20.0	0.0	20.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
6	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
7	0.0	0.0	0.0	0.0	20.0	40.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
8	0.0	20.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
9	0.0	0.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
10	0.0	20.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
11	20.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
12	20.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
13	20.0	0.0	0.0	0.0	0.0	40.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
14	16.7	0.0	0.0	0.0	0.0	33.3	0.0	0.0	16.7	0.0	16.7	0.0	0.0	0.0	16.7	0.0	0.0	100.
15	16.7	0.0	0.0	0.0	16.7	16.7	0.0	16.7	0.0	16.7	0.0	0.0	0.0	0.0	16.7	0.0	0.0	100.
16	16.7	0.0	0.0	0.0	16.7	16.7	0.0	16.7	0.0	16.7	0.0	0.0	0.0	0.0	16.7	0.0	0.0	100.
17	16.7	0.0	0.0	0.0	33.3	0.0	0.0	16.7	0.0	16.7	0.0	0.0	0.0	0.0	16.7	0.0	0.0	100.
18	16.7	0.0	0.0	0.0	33.3	0.0	16.7	0.0	0.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	100.
19	16.7	0.0	0.0	0.0	33.3	0.0	16.7	0.0	16.7	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0	100.
20	0.0	0.0	0.0	0.0	33.3	0.0	0.0	16.7	16.7	0.0	16.7	0.0	0.0	0.0	0.0	16.7	0.0	100.
21	0.0	0.0	0.0	0.0	33.3	0.0	0.0	16.7	16.7	0.0	16.7	0.0	0.0	0.0	0.0	16.7	0.0	100.
22	0.0	0.0	0.0	0.0	33.3	0.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	16.7	0.0	16.7	0.0	100.
23	0.0	0.0	16.7	0.0	33.3	0.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	16.7	0.0	100.
24	0.0	0.0	0.0	0.0	33.3	0.0	33.3	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	16.7	0.0	100.
ALL	6.9	1.5	1.5	1.5	10.3	13.7	9.2	6.1	7.6	13.0	1.5	0.0	1.5	6.1	7.6	3.0	0.0	100.

NUMBER OF OBS = 131

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

MAY

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	10.0	10.0	0.0	0.0	0.0	20.0	40.0	10.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	100.
2	10.0	0.0	0.0	0.0	0.0	30.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	0.0	100.
3	20.0	10.0	0.0	10.0	0.0	20.0	30.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
4	10.0	20.0	0.0	10.0	0.0	10.0	40.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
5	10.0	20.0	10.0	0.0	0.0	20.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
6	0.0	0.0	11.1	11.1	22.2	11.1	33.3	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
7	0.0	22.2	0.0	11.1	11.1	11.1	44.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
8	0.0	0.0	11.1	11.1	11.1	11.1	22.2	22.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
9	0.0	0.0	11.1	11.1	0.0	22.2	11.1	11.1	22.2	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	100.
10	0.0	0.0	33.3	0.0	0.0	0.0	44.4	0.0	11.1	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	100.
11	0.0	0.0	22.2	11.1	0.0	11.1	22.2	11.1	11.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
12	0.0	11.1	22.2	0.0	0.0	11.1	22.2	11.1	11.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
13	0.0	11.1	22.2	0.0	0.0	11.1	22.2	0.0	11.1	11.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0	100.
14	11.1	0.0	11.1	0.0	11.1	0.0	33.3	11.1	11.1	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	100.
15	0.0	11.1	11.1	0.0	11.1	0.0	11.1	44.4	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	100.
16	0.0	11.1	11.1	0.0	11.1	0.0	11.1	33.3	11.1	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	100.
17	11.1	11.1	0.0	0.0	0.0	11.1	22.2	33.3	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	100.
18	11.1	11.1	0.0	0.0	0.0	11.1	22.2	33.3	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	100.
19	0.0	11.1	0.0	0.0	0.0	11.1	33.3	22.2	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
20	0.0	11.1	0.0	0.0	0.0	22.2	22.2	22.2	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
21	0.0	11.1	0.0	0.0	0.0	11.1	44.4	11.1	0.0	0.0	0.0	0.0	0.0	0.0	11.1	11.1	0.0	100.
22	0.0	11.1	0.0	0.0	0.0	0.0	44.4	22.2	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
23	0.0	11.1	0.0	0.0	0.0	0.0	44.4	22.2	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
24	0.0	0.0	11.1	0.0	0.0	0.0	44.4	11.1	11.1	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
ALL	4.1	8.6	7.7	3.2	3.2	10.9	31.2	14.9	4.5	1.4	0.9	1.4	0.9	3.2	0.9	3.2	0.0	100.

NUMBER OF OBS = 221

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUNE

HR. OF DAY	WIND DIRECTION																CAH	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NUMBER OF OBS = 0

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2F

HOURLY WIND ROSES (PERCENT)

APR-JUN

WIND DIRECTION																		
HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.7	6.7	0.0	6.7	0.0	20.0	26.7	6.7	6.7	6.7	0.0	0.0	0.0	6.7	6.7	0.0	0.0	100.
2	6.7	0.0	0.0	6.7	0.0	26.7	26.7	0.0	6.7	6.7	0.0	0.0	0.0	0.0	13.3	6.7	0.0	100.
3	13.3	6.7	0.0	6.7	6.7	20.0	20.0	6.7	6.7	6.7	0.0	0.0	0.0	0.0	6.7	0.0	0.0	100.
4	6.7	13.3	0.0	6.7	6.7	13.3	26.7	13.3	0.0	6.7	0.0	0.0	0.0	0.0	6.7	0.0	0.0	100.
5	6.7	13.3	6.7	0.0	6.7	13.3	33.3	6.7	0.0	6.7	0.0	0.0	0.0	0.0	6.7	0.0	0.0	100.
6	0.0	0.0	7.1	7.1	21.4	14.3	28.6	7.1	0.0	7.1	0.0	0.0	0.0	0.0	7.1	0.0	0.0	100.
7	0.0	14.3	0.0	7.1	14.3	21.4	28.6	0.0	7.1	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	100.
8	0.0	7.1	7.1	7.1	7.1	21.4	14.3	14.3	7.1	7.1	0.0	0.0	0.0	0.0	7.1	0.0	0.0	100.
9	0.0	0.0	14.3	7.1	0.0	21.4	14.3	7.1	14.3	7.1	0.0	7.1	0.0	0.0	7.1	0.0	0.0	100.
10	0.0	7.1	21.4	0.0	0.0	0.0	42.9	0.0	7.1	7.1	7.1	0.0	0.0	0.0	7.1	0.0	0.0	100.
11	7.1	0.0	14.3	7.1	0.0	14.3	21.4	7.1	14.3	7.1	0.0	0.0	0.0	7.1	0.0	0.0	0.0	100.
12	7.1	7.1	14.3	0.0	7.1	14.3	14.3	7.1	14.3	7.1	0.0	0.0	0.0	7.1	0.0	0.0	0.0	100.
13	7.1	7.1	14.3	0.0	0.0	21.4	14.3	7.1	7.1	7.1	7.1	0.0	0.0	7.1	0.0	0.0	0.0	100.
14	13.3	0.0	6.7	0.0	6.7	13.3	20.0	6.7	13.3	0.0	6.7	6.7	0.0	6.7	0.0	0.0	0.0	100.
15	6.7	6.7	6.7	0.0	13.3	6.7	6.7	33.3	0.0	6.7	0.0	6.7	0.0	6.7	0.0	0.0	0.0	100.
16	6.7	6.7	6.7	0.0	13.3	6.7	6.7	26.7	6.7	6.7	0.0	0.0	6.7	6.7	0.0	0.0	0.0	100.
17	13.3	6.7	0.0	0.0	13.3	6.7	13.3	26.7	0.0	6.7	0.0	0.0	6.7	6.7	0.0	0.0	0.0	100.
18	13.3	6.7	0.0	0.0	13.3	6.7	20.0	20.0	0.0	6.7	0.0	0.0	6.7	6.7	0.0	0.0	0.0	100.
19	6.7	6.7	0.0	0.0	13.3	6.7	26.7	13.3	6.7	0.0	0.0	0.0	6.7	6.7	0.0	6.7	0.0	100.
20	0.0	6.7	0.0	0.0	13.3	13.3	13.3	20.0	6.7	0.0	6.7	0.0	0.0	6.7	0.0	13.3	0.0	100.
21	0.0	6.7	0.0	0.0	13.3	6.7	26.7	13.3	6.7	6.7	0.0	0.0	0.0	0.0	6.7	13.3	0.0	100.
22	0.0	6.7	0.0	0.0	13.3	0.0	33.3	13.3	0.0	6.7	0.0	0.0	0.0	13.3	0.0	13.3	0.0	100.
23	0.0	6.7	6.7	0.0	13.3	0.0	33.3	13.3	0.0	6.7	0.0	0.0	0.0	6.7	0.0	13.3	0.0	100.
24	0.0	0.0	6.7	0.0	13.3	0.0	40.0	6.7	6.7	6.7	0.0	0.0	0.0	6.7	0.0	13.3	0.0	100.
ALL	5.1	6.0	5.4	2.6	8.8	11.9	23.0	11.6	5.7	5.7	1.1	0.9	1.1	4.3	3.4	3.4	0.0	100.

NUMBER OF OBS = 352

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-JUN 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-JUN

WIND DIRECTION																		
PR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	7.8	7.8	3.3	3.3	0.0	7.8	10.0	5.6	7.8	6.7	10.0	1.1	2.2	1.1	12.2	13.3	0.0	100.
2	12.2	2.2	2.2	1.1	5.6	5.6	7.8	4.4	7.8	4.4	10.0	2.2	2.2	3.3	11.1	15.6	2.2	100.
3	14.4	3.3	1.1	2.2	1.1	6.7	11.1	3.3	6.7	5.6	7.8	2.2	2.2	6.7	15.6	10.0	0.0	100.
4	13.3	7.8	0.0	2.2	1.1	6.7	8.9	5.6	5.6	6.7	5.6	2.2	2.2	5.6	12.2	14.4	0.0	100.
5	11.1	6.7	1.1	2.2	1.1	4.4	16.7	3.3	4.4	5.6	4.4	1.1	2.2	3.3	12.2	18.9	1.1	100.
6	8.0	3.4	3.4	1.1	4.5	3.4	14.8	9.1	2.3	5.7	4.5	1.1	2.3	5.7	8.0	21.6	1.1	100.
7	10.3	3.4	4.6	1.1	2.3	5.7	13.8	6.9	6.9	6.9	2.3	1.1	2.3	3.4	10.3	18.4	0.0	100.
8	12.6	3.4	4.6	1.1	2.3	5.7	12.6	3.4	10.5	5.7	5.7	1.1	3.4	2.3	10.3	14.9	0.0	100.
9	6.8	6.8	5.7	2.3	1.1	4.5	13.6	3.4	9.1	8.0	4.5	3.4	2.3	4.5	8.0	15.9	0.0	100.
10	7.9	6.7	5.6	2.2	2.2	4.5	15.7	2.2	9.0	5.6	6.7	0.0	4.5	4.5	6.7	15.7	0.0	100.
11	11.2	5.6	5.6	3.4	0.0	3.4	11.2	5.6	9.0	10.1	4.5	1.1	2.2	5.6	7.9	12.4	1.1	100.
12	13.5	6.7	4.5	1.1	2.2	5.6	9.0	7.9	9.0	5.6	6.7	1.1	3.4	3.4	11.2	9.0	0.0	100.
13	10.2	6.8	4.5	1.1	1.1	4.5	13.6	5.7	8.0	9.1	4.5	0.0	4.5	4.5	9.1	12.5	0.0	100.
14	12.2	3.3	5.6	1.1	3.3	3.3	10.0	6.7	10.0	7.8	4.4	4.4	2.2	4.4	11.1	10.0	0.0	100.
15	11.2	4.5	4.5	1.1	2.2	4.5	10.1	9.0	4.5	11.2	3.4	2.2	4.5	5.6	7.9	13.5	0.0	100.
16	9.0	3.4	2.2	2.2	4.5	5.6	6.7	9.0	6.7	10.1	1.1	2.2	5.6	4.5	14.6	12.4	0.0	100.
17	10.1	5.6	3.4	2.2	5.6	2.2	6.7	10.1	6.7	9.0	3.4	1.1	3.4	4.5	13.5	12.4	0.0	100.
18	10.1	6.7	2.2	2.2	3.4	5.6	7.9	7.9	9.0	10.1	0.0	3.4	2.2	2.2	10.1	15.7	1.1	100.
19	7.9	9.0	1.1	4.5	2.2	4.5	10.1	6.7	7.9	9.0	3.4	2.2	4.5	1.1	4.5	20.2	1.1	100.
20	7.9	10.1	1.1	2.2	2.2	9.0	9.0	7.9	6.7	10.1	3.4	2.2	2.2	2.2	5.6	16.9	1.1	100.
21	7.9	6.7	4.5	3.4	4.5	2.2	11.2	10.1	5.6	11.2	4.5	0.0	2.2	3.4	6.7	15.7	0.0	100.
22	6.7	9.0	2.2	1.1	4.5	3.4	12.4	9.0	6.7	7.9	6.7	0.0	1.1	6.7	4.5	18.0	0.0	100.
23	7.9	9.0	1.1	3.4	5.6	2.2	11.2	7.9	5.6	12.4	5.6	1.1	0.0	2.2	7.9	16.9	0.0	100.
24	12.4	1.1	6.7	2.2	3.4	2.2	12.4	5.6	10.1	6.7	10.1	2.2	0.0	1.1	9.0	14.6	0.0	100.
ALL	10.1	5.8	3.4	2.1	2.8	4.7	11.1	6.5	7.3	8.0	5.2	1.6	2.7	3.8	9.6	14.9	0.4	100.

NUMBER OF OBS = 2135

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JULY

HF OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NUMBER OF OBS = 0

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 1995

PROGRAM: WINPLR
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

AUGUST

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NUMBER OF OBS = 0

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

SEPTEMBER

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	50.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	50.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
6	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	25.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
7	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
8	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
9	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
11	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	0.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
12	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	50.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	100.
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	50.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	100.
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	25.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	100.
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	100.
17	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	100.
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	100.
19	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	40.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	100.
20	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	60.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	100.
21	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	40.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	40.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.
ALL	0.0	0.0	0.0	0.0	0.0	0.0	9.7	22.3	33.0	20.4	2.9	2.9	4.9	3.9	0.0	0.0	0.0	100.

NUMBER OF OBS = 103

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUL-SEP

HR. OF DAY	WIND DIRECTION																	TOTAL	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	50.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	50.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
6	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	25.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
7	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
8	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
9	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
11	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	0.0	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
12	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	50.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	50.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	25.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	25.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	100.
17	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	100.
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.
19	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	40.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.
20	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	60.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	100.
21	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	100.
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	100.
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	40.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	100.
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	40.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	100.
ALL	0.0	0.0	0.0	0.0	0.0	0.0	9.7	22.3	33.0	20.4	2.9	2.9	4.9	3.9	0.0	0.0	0.0	0.0	100.

NUMBER OF OBS = 103

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 1995

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	3.2	6.5	3.2	0.0	0.0	6.5	6.5	12.9	12.9	12.9	3.2	0.0	3.2	22.6	6.5	0.0	0.0	100.
2	3.2	3.2	3.2	0.0	0.0	6.5	6.5	6.5	19.4	9.7	3.2	3.2	6.5	16.1	6.5	6.5	0.0	100.
3	3.2	0.0	6.5	0.0	0.0	6.5	3.2	9.7	19.4	6.5	9.7	0.0	6.5	16.1	12.9	0.0	0.0	100.
4	0.0	3.2	3.2	3.2	0.0	6.5	0.0	12.9	22.6	6.5	3.2	3.2	9.7	12.9	12.9	0.0	0.0	100.
5	0.0	0.0	3.2	3.2	3.2	6.5	3.2	6.5	19.4	9.7	3.2	0.0	22.6	9.7	9.7	0.0	0.0	100.
6	0.0	0.0	3.2	3.2	3.2	6.5	0.0	6.5	19.4	6.5	0.0	0.0	19.4	16.1	16.1	0.0	0.0	100.
7	0.0	0.0	6.5	0.0	3.2	6.5	3.2	9.7	9.7	6.5	6.5	0.0	12.9	16.1	16.1	3.2	0.0	100.
8	0.0	0.0	6.5	0.0	0.0	9.7	9.7	3.2	6.5	12.9	0.0	6.5	9.7	22.6	9.7	3.2	0.0	100.
9	0.0	0.0	3.2	3.2	0.0	9.7	12.9	3.2	6.5	12.9	3.2	0.0	6.5	16.1	19.4	3.2	0.0	100.
10	3.2	0.0	0.0	6.5	0.0	6.5	12.9	6.5	6.5	12.9	3.2	0.0	12.9	9.7	12.9	6.5	0.0	100.
11	3.2	3.2	0.0	3.2	3.2	3.2	9.7	9.7	6.5	6.5	12.9	0.0	6.5	12.9	19.4	0.0	0.0	100.
12	3.3	3.3	0.0	3.3	0.0	3.3	13.3	3.3	6.7	10.0	10.0	0.0	10.0	13.3	20.0	0.0	0.0	100.
13	0.0	0.0	3.2	3.2	3.2	3.2	6.5	9.7	6.5	16.1	3.2	3.2	9.7	12.9	16.1	3.2	0.0	100.
14	3.2	0.0	0.0	3.2	3.2	9.7	9.7	6.5	3.2	6.5	6.5	9.7	9.7	9.7	19.4	0.0	0.0	100.
15	3.2	0.0	0.0	3.2	3.2	6.5	12.9	6.5	9.7	9.7	0.0	12.9	6.5	9.7	12.9	3.2	0.0	100.
16	6.5	0.0	3.2	0.0	3.2	3.2	16.1	9.7	6.5	6.5	9.7	3.2	9.7	12.9	9.7	0.0	0.0	100.
17	6.5	3.2	0.0	3.2	0.0	6.5	16.1	6.5	9.7	6.5	3.2	6.5	6.5	12.9	12.9	0.0	0.0	100.
18	6.5	3.2	3.2	3.2	3.2	6.5	16.1	3.2	9.7	12.9	0.0	0.0	0.0	6.5	22.6	0.0	3.2	100.
19	3.2	3.2	3.2	12.9	0.0	6.5	3.2	16.1	16.1	3.2	3.2	0.0	0.0	9.7	12.9	6.5	0.0	100.
20	3.2	3.2	3.2	3.2	9.7	6.5	3.2	16.1	12.9	3.2	6.5	0.0	0.0	6.5	16.1	6.5	0.0	100.
21	3.2	0.0	6.5	0.0	9.7	9.7	0.0	12.9	19.4	0.0	0.0	3.2	6.5	12.9	9.7	6.5	0.0	100.
22	3.2	0.0	3.2	3.2	6.5	6.5	6.5	16.1	16.1	0.0	0.0	0.0	9.7	12.9	12.9	3.2	0.0	100.
23	6.5	0.0	3.2	3.2	6.5	6.5	6.5	12.9	16.1	3.2	3.2	3.2	0.0	19.4	6.5	3.2	0.0	100.
24	6.5	0.0	6.5	0.0	3.2	12.9	3.2	9.7	16.1	9.7	3.2	0.0	3.2	19.4	0.0	6.5	0.0	100.
ALL	3.0	1.3	3.1	2.7	2.7	6.7	7.5	9.0	12.4	7.9	4.0	2.3	7.8	13.7	13.1	2.6	0.1	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 1995

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	13.8	0.0	0.0	0.0	3.4	3.4	0.0	13.8	6.9	10.3	17.2	0.0	0.0	6.9	10.3	13.8	0.0	100.
2	10.3	3.4	0.0	3.4	0.0	0.0	0.0	20.7	3.4	6.9	13.8	6.9	0.0	6.9	10.3	13.8	0.0	100.
3	6.9	3.4	3.4	0.0	0.0	0.0	3.4	10.3	10.3	6.9	6.9	6.9	3.4	13.8	10.3	13.8	0.0	100.
4	13.8	0.0	3.4	0.0	0.0	0.0	3.4	10.3	10.3	6.9	3.4	6.9	6.9	10.3	17.2	6.9	0.0	100.
5	6.9	0.0	3.4	0.0	0.0	0.0	0.0	17.2	6.9	13.8	3.4	3.4	6.9	6.9	13.8	17.2	0.0	100.
6	6.9	3.4	3.4	0.0	0.0	0.0	0.0	10.3	10.3	17.2	6.9	0.0	3.4	10.3	17.2	10.3	0.0	100.
7	13.8	0.0	0.0	0.0	0.0	3.4	3.4	13.8	10.3	13.8	3.4	0.0	0.0	6.9	17.2	13.8	0.0	100.
8	6.7	0.0	0.0	3.3	0.0	0.0	3.3	16.7	13.3	13.3	3.3	0.0	3.3	3.3	10.0	23.3	0.0	100.
9	13.3	0.0	0.0	0.0	0.0	0.0	3.3	13.3	16.7	13.3	6.7	0.0	0.0	6.7	10.0	16.7	0.0	100.
10	6.7	10.0	0.0	0.0	0.0	0.0	3.3	6.7	13.3	13.3	16.7	0.0	3.3	3.3	13.3	10.0	0.0	100.
11	6.7	6.7	0.0	0.0	3.3	0.0	6.7	6.7	6.7	16.7	6.7	6.7	0.0	6.7	13.3	13.3	0.0	100.
12	10.0	0.0	3.3	0.0	0.0	3.3	6.7	6.7	10.0	13.3	3.3	3.3	10.0	6.7	13.3	10.0	0.0	100.
13	6.7	0.0	0.0	0.0	0.0	3.3	6.7	10.0	6.7	16.7	3.3	0.0	10.0	16.7	10.0	10.0	0.0	100.
14	3.3	0.0	0.0	0.0	0.0	0.0	3.3	16.7	13.3	6.7	6.7	3.3	3.3	10.0	13.3	20.0	0.0	100.
15	6.7	0.0	0.0	0.0	0.0	3.3	10.0	10.0	13.3	6.7	6.7	0.0	6.7	10.0	6.7	20.0	0.0	100.
16	3.3	0.0	0.0	0.0	0.0	6.7	6.7	10.0	16.7	6.7	3.3	0.0	3.3	10.0	13.3	20.0	0.0	100.
17	0.0	0.0	0.0	0.0	3.3	6.7	6.7	13.3	10.0	6.7	6.7	3.3	0.0	10.0	6.7	26.7	0.0	100.
18	0.0	0.0	0.0	0.0	6.7	3.3	6.7	20.0	10.0	3.3	3.3	0.0	3.3	6.7	13.3	23.3	0.0	100.
19	6.7	3.3	0.0	0.0	0.0	3.3	3.3	20.0	13.3	3.3	0.0	3.3	3.3	3.3	16.7	20.0	0.0	100.
20	10.0	3.3	0.0	0.0	0.0	3.3	6.7	16.7	16.7	0.0	0.0	3.3	3.3	3.3	3.3	30.0	0.0	100.
21	16.7	0.0	0.0	0.0	3.3	0.0	6.7	10.0	23.3	0.0	0.0	0.0	6.7	3.3	13.3	16.7	0.0	100.
22	10.0	0.0	0.0	3.3	6.7	0.0	6.7	10.0	13.3	10.0	3.3	0.0	3.3	6.7	16.7	10.0	0.0	100.
23	10.0	0.0	0.0	0.0	6.7	0.0	0.0	10.0	23.3	6.7	3.3	0.0	3.3	10.0	13.3	13.3	0.0	100.
24	10.0	3.3	0.0	3.3	3.3	0.0	3.3	6.7	16.7	10.0	6.7	3.3	0.0	6.7	10.0	16.7	0.0	100.
ALL	8.3	1.5	0.7	0.6	1.5	1.7	4.2	12.5	12.3	9.3	5.6	2.1	3.5	7.7	12.2	16.3	0.0	100.

NUMBER OF OBS = 713

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 1995

PROGRAM: WINPER

VERSION: 2P

HOURLY WIND ROSES (PERCENT)

DECEMBER

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	6.5	0.0	6.5	3.2	3.2	6.5	6.5	6.5	9.7	3.2	6.5	12.9	6.5	6.5	9.7	6.5	0.0	100.
2	6.5	0.0	9.7	0.0	3.2	6.5	6.5	3.2	16.1	3.2	3.2	6.5	6.5	6.5	12.9	9.7	0.0	100.
3	9.7	0.0	9.7	0.0	3.2	6.5	6.5	3.2	16.1	0.0	9.7	3.2	3.2	12.9	3.2	12.9	0.0	100.
4	6.5	6.5	6.5	0.0	3.2	9.7	3.2	0.0	19.4	0.0	12.9	6.5	0.0	3.2	12.9	9.7	0.0	100.
5	6.5	6.5	3.2	3.2	0.0	9.7	9.7	6.5	9.7	0.0	9.7	9.7	0.0	3.2	12.9	9.7	0.0	100.
6	9.7	3.2	3.2	0.0	3.2	9.7	12.9	3.2	12.9	0.0	3.2	0.0	12.9	3.2	9.7	12.9	0.0	100.
7	9.7	3.2	3.2	3.2	3.2	9.7	6.5	6.5	12.9	0.0	0.0	6.5	9.7	6.5	3.2	16.1	0.0	100.
8	9.7	0.0	9.7	3.2	0.0	6.5	6.5	12.9	9.7	0.0	3.2	0.0	9.7	6.5	9.7	12.9	0.0	100.
9	12.9	6.5	3.2	3.2	0.0	9.7	3.2	3.2	19.4	3.2	0.0	0.0	0.0	19.4	6.5	9.7	0.0	100.
10	9.7	6.5	3.2	3.2	6.5	6.5	3.2	3.2	19.4	3.2	0.0	0.0	0.0	12.9	12.9	9.7	0.0	100.
11	22.6	0.0	3.2	3.2	6.5	9.7	0.0	6.5	16.1	3.2	0.0	3.2	3.2	3.2	12.9	6.5	0.0	100.
12	16.1	6.5	3.2	6.5	3.2	9.7	0.0	3.2	19.4	3.2	3.2	0.0	3.2	6.5	6.5	9.7	0.0	100.
13	9.7	3.2	6.5	9.7	3.2	6.5	0.0	9.7	12.9	3.2	3.2	0.0	3.2	3.2	6.5	19.4	0.0	100.
14	6.5	0.0	0.0	12.9	12.9	3.2	3.2	9.7	3.2	12.9	0.0	3.2	3.2	3.2	9.7	16.1	0.0	100.
15	6.5	0.0	6.5	9.7	16.1	0.0	3.2	9.7	6.5	6.5	0.0	3.2	3.2	3.2	16.1	9.7	0.0	100.
16	6.5	6.5	3.2	9.7	12.9	0.0	3.2	6.5	12.9	0.0	3.2	0.0	6.5	6.5	12.9	9.7	0.0	100.
17	6.5	6.5	0.0	9.7	12.9	0.0	3.2	6.5	16.1	0.0	3.2	0.0	6.5	6.5	16.1	6.5	0.0	100.
18	6.5	3.2	3.2	9.7	9.7	3.2	9.7	0.0	12.9	0.0	6.5	0.0	6.5	3.2	19.4	6.5	0.0	100.
19	3.2	6.5	3.2	9.7	6.5	9.7	6.5	0.0	9.7	3.2	3.2	3.2	6.5	6.5	9.7	12.9	0.0	100.
20	9.7	3.2	6.5	6.5	9.7	3.2	9.7	0.0	9.7	3.2	3.2	3.2	3.2	9.7	9.7	9.7	0.0	100.
21	12.9	6.5	16.1	0.0	3.2	3.2	9.7	0.0	6.5	6.5	0.0	6.5	12.9	3.2	6.5	6.5	0.0	100.
22	12.9	16.1	3.2	3.2	3.2	0.0	12.9	0.0	3.2	9.7	9.7	6.5	3.2	6.5	3.2	6.5	0.0	100.
23	19.4	0.0	3.2	3.2	6.5	0.0	12.9	3.2	3.2	9.7	9.7	3.2	6.5	6.5	3.2	9.7	0.0	100.
24	9.7	3.2	6.5	3.2	0.0	9.7	6.5	3.2	3.2	12.9	3.2	9.7	6.5	6.5	6.5	9.7	0.0	100.
ALL	9.8	3.9	5.1	4.8	5.5	5.8	6.0	4.4	11.7	3.6	4.0	3.6	5.1	6.5	9.7	10.3	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

OCT-DEC

HR. OF DAY	WIND DIRECTION																CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
1	7.7	2.2	3.3	1.1	2.2	5.5	4.4	11.0	9.9	8.8	8.8	4.4	3.3	12.1	8.8	6.6	0.0	100.
2	6.6	2.2	4.4	1.1	1.1	4.4	4.4	9.9	13.2	6.6	6.6	5.5	4.4	9.9	9.9	9.9	0.0	100.
3	6.6	1.1	6.6	0.0	1.1	4.4	4.4	7.7	15.4	4.4	8.8	3.3	4.4	14.3	8.8	8.8	0.0	100.
4	6.6	3.3	4.4	1.1	1.1	5.5	2.2	7.7	17.6	4.4	6.6	5.5	5.5	8.8	14.3	5.5	0.0	100.
5	4.4	2.2	3.3	2.2	1.1	5.5	4.4	9.9	12.1	7.7	5.5	4.4	9.9	6.6	12.1	8.8	0.0	100.
6	5.5	2.2	3.3	1.1	2.2	5.5	4.4	6.6	14.3	7.7	3.3	0.0	12.1	9.9	14.3	7.7	0.0	100.
7	7.7	1.1	3.3	1.1	2.2	6.6	4.4	9.9	11.0	6.6	3.3	2.2	7.7	9.9	12.1	11.0	0.0	100.
8	5.4	0.0	5.4	2.2	0.0	5.4	6.5	10.9	9.8	8.7	2.2	2.2	7.6	10.9	9.8	13.0	0.0	100.
9	8.7	2.2	2.2	2.2	0.0	6.5	6.5	6.5	14.1	9.8	3.3	0.0	2.2	14.1	12.0	9.8	0.0	100.
10	6.5	5.4	1.1	3.3	2.2	4.3	6.5	5.4	13.0	9.8	6.5	0.0	5.4	8.7	13.0	8.7	0.0	100.
11	10.9	3.3	1.1	2.2	4.3	4.3	5.4	7.6	9.8	8.7	6.5	3.3	3.3	7.6	15.2	6.5	0.0	100.
12	9.9	3.3	2.2	3.3	1.1	5.5	6.6	4.4	12.1	8.8	5.5	1.1	7.7	8.8	13.2	6.6	0.0	100.
13	5.4	1.1	3.3	4.3	2.2	4.3	4.3	9.8	8.7	12.0	3.3	1.1	7.6	10.9	10.9	10.9	0.0	100.
14	4.3	0.0	0.0	5.4	5.4	4.3	5.4	10.9	6.5	8.7	4.3	5.4	5.4	7.6	14.1	12.0	0.0	100.
15	5.4	0.0	2.2	4.3	6.5	3.3	8.7	8.7	9.8	7.6	2.2	5.4	5.4	7.6	12.0	10.9	0.0	100.
16	5.4	2.2	2.2	3.3	5.4	3.3	8.7	8.7	12.0	4.3	5.4	1.1	6.5	9.8	12.0	9.8	0.0	100.
17	4.3	3.3	0.0	4.3	5.4	4.3	8.7	8.7	12.0	4.3	4.3	3.3	4.3	9.8	12.0	10.9	0.0	100.
18	4.3	2.2	2.2	4.3	6.5	4.3	10.9	7.6	10.9	5.4	3.3	0.0	3.3	5.4	18.5	9.8	1.1	100.
19	4.3	4.3	2.2	7.6	2.2	6.5	4.3	12.0	13.0	3.3	2.2	2.2	3.3	6.5	13.0	13.0	0.0	100.
20	7.6	3.3	3.3	3.3	6.5	4.3	6.5	10.9	13.0	2.2	3.3	2.2	2.2	6.5	9.8	15.2	0.0	100.
21	10.9	2.2	7.6	0.0	5.4	4.3	5.4	7.6	16.3	2.2	0.0	3.3	8.7	6.5	9.8	9.8	0.0	100.
22	8.7	5.4	2.2	3.3	5.4	2.2	8.7	8.7	10.9	6.5	4.3	2.2	5.4	8.7	10.9	6.5	0.0	100.
23	12.0	0.0	2.2	2.2	6.5	2.2	6.5	8.7	14.1	6.5	5.4	2.2	3.3	12.0	7.6	8.7	0.0	100.
24	8.7	2.2	4.3	2.2	2.2	7.6	4.3	6.5	12.0	10.9	4.3	4.3	3.3	10.9	5.4	10.9	0.0	100.
ALL	7.0	2.3	3.0	2.7	3.3	4.8	6.0	8.6	12.1	6.9	4.5	2.7	5.5	9.3	11.6	9.6	0.0	100.

NUMBER OF OBS = 2200

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-DEC 1995

PROGRAM: WINPER
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUL-DEC

HR. OF DAY	WIND DIRECTION																	CALM	TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			
1	7.4	2.1	3.2	1.1	2.1	5.3	4.2	11.6	11.6	9.5	8.4	4.2	3.2	11.6	8.4	6.3	0.0	100.	
2	6.3	2.1	4.2	1.1	1.1	4.2	4.2	10.5	14.7	7.4	6.3	5.3	4.2	9.5	9.5	9.5	0.0	100.	
3	6.3	1.1	6.3	0.0	1.1	4.2	4.2	8.4	15.8	6.3	8.4	3.2	4.2	13.7	8.4	8.4	0.0	100.	
4	6.3	3.2	4.2	1.1	1.1	5.3	2.1	7.4	18.9	6.3	6.3	5.3	5.3	8.4	13.7	5.3	0.0	100.	
5	4.2	2.1	3.2	2.1	1.1	5.3	4.2	9.5	13.7	9.5	5.3	4.2	9.5	6.3	11.6	8.4	0.0	100.	
6	5.3	2.1	3.2	1.1	2.1	5.3	5.3	6.3	14.7	9.5	3.2	0.0	11.6	9.5	13.7	7.4	0.0	100.	
7	7.4	1.1	3.2	1.1	2.1	6.3	5.3	10.5	10.5	8.4	3.2	2.1	7.4	9.5	11.6	10.5	0.0	100.	
8	5.2	0.0	5.2	2.1	0.0	5.2	7.3	11.5	9.4	10.4	2.1	2.1	7.3	10.4	9.4	12.5	0.0	100.	
9	8.3	2.1	2.1	2.1	0.0	6.3	7.3	7.3	13.5	11.5	3.1	0.0	2.1	13.5	11.5	9.4	0.0	100.	
10	6.3	5.2	1.0	3.1	2.1	4.2	6.3	7.3	12.5	10.4	7.3	0.0	5.2	8.3	12.5	8.3	0.0	100.	
11	10.4	3.1	1.0	2.1	4.2	4.2	6.3	8.3	9.4	9.4	7.3	3.1	3.1	7.3	14.6	6.3	0.0	100.	
12	9.5	3.2	2.1	3.2	1.1	5.3	7.4	4.2	13.7	8.4	6.3	1.1	7.4	8.4	12.6	6.3	0.0	100.	
13	5.2	1.0	3.1	4.2	2.1	4.2	4.2	11.5	9.4	11.5	3.1	2.1	7.3	10.4	10.4	10.4	0.0	100.	
14	4.2	0.0	0.0	5.2	5.2	4.2	5.2	11.5	8.3	8.3	4.2	6.3	5.2	7.3	13.5	11.5	0.0	100.	
15	5.2	0.0	2.1	4.2	6.3	3.1	8.3	10.4	9.4	8.3	2.1	6.3	5.2	7.3	11.5	10.4	0.0	100.	
16	5.2	2.1	2.1	3.1	5.2	3.1	8.3	10.4	12.5	4.2	5.2	1.0	7.3	9.4	11.5	9.4	0.0	100.	
17	4.2	3.1	0.0	4.2	5.2	4.2	9.4	9.4	12.5	4.2	4.2	3.1	4.2	10.4	11.5	10.4	0.0	100.	
18	4.1	2.1	2.1	4.1	6.2	4.1	10.3	9.3	12.4	5.2	3.1	0.0	3.1	6.2	17.5	9.3	1.0	100.	
19	4.1	4.1	2.1	7.2	2.1	6.2	5.2	12.4	14.4	3.1	2.1	2.1	3.1	7.2	12.4	12.4	0.0	100.	
20	7.2	3.1	3.1	3.1	6.2	4.1	7.2	10.3	15.5	2.1	3.1	2.1	2.1	7.2	9.3	14.4	0.0	100.	
21	10.3	2.1	7.2	0.0	5.2	4.1	6.2	7.2	18.6	2.1	0.0	3.1	9.3	6.2	9.3	9.3	0.0	100.	
22	8.2	5.2	2.1	3.1	5.2	2.1	8.2	9.3	13.4	6.2	4.1	2.1	6.2	8.2	10.3	6.2	0.0	100.	
23	11.3	0.0	2.1	2.1	6.2	2.1	6.2	9.3	15.5	7.2	5.2	2.1	4.1	11.3	7.2	8.2	0.0	100.	
24	8.2	2.1	4.1	2.1	2.1	7.2	4.1	7.2	13.4	11.3	4.1	4.1	4.1	10.3	5.2	10.3	0.0	100.	
ALL	6.7	2.2	2.9	2.6	3.1	4.6	6.1	9.2	13.1	7.5	4.5	2.7	5.5	9.1	11.1	9.2	0.0	100.	

NUMBER OF OBS = 2303

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-DEC 1995

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	7.6	4.9	3.2	2.2	1.1	6.5	7.0	8.6	9.7	8.1	9.2	2.7	2.7	6.5	10.3	9.7	0.0	100.
2	9.2	2.2	3.2	1.1	3.2	4.9	5.9	7.6	11.4	5.9	8.1	3.8	3.2	6.5	10.3	12.4	1.1	100.
3	10.3	2.2	3.8	1.1	1.1	5.4	7.6	5.9	11.4	5.9	8.1	2.7	3.2	10.3	11.9	9.2	0.0	100.
4	9.7	5.4	2.2	1.6	1.1	5.9	5.4	6.5	12.4	6.5	5.9	3.8	3.8	7.0	13.0	9.7	0.0	100.
5	7.6	4.3	2.2	2.2	1.1	4.9	10.3	6.5	9.2	7.6	4.9	2.7	5.9	4.9	11.9	13.5	0.5	100.
6	6.6	2.7	3.3	1.1	3.3	4.4	9.8	7.7	8.7	7.7	3.8	0.5	7.1	7.7	10.9	14.2	0.5	100.
7	8.8	2.2	3.8	1.1	2.2	6.0	9.3	8.8	8.8	7.7	2.7	1.6	4.9	6.6	11.0	14.3	0.0	100.
8	8.7	1.6	4.9	1.6	1.1	5.5	9.8	7.7	9.8	8.2	3.8	1.6	5.5	6.6	9.8	13.7	0.0	100.
9	7.6	4.3	3.8	2.2	0.5	5.4	10.3	5.4	11.4	9.8	3.8	1.6	2.2	9.2	9.8	12.5	0.0	100.
10	7.0	5.9	3.2	2.7	2.2	4.3	10.8	4.9	10.8	8.1	7.0	0.0	4.9	6.5	9.7	11.9	0.0	100.
11	10.8	4.3	3.2	2.7	2.2	3.8	8.6	7.0	9.2	9.7	5.9	2.2	2.7	6.5	11.4	9.2	0.5	100.
12	11.4	4.9	3.3	2.2	1.6	5.4	8.2	6.0	11.4	7.1	6.5	1.1	5.4	6.0	12.0	7.6	0.0	100.
13	7.6	3.8	3.8	2.7	1.6	4.3	8.7	8.7	8.7	10.3	3.8	1.1	6.0	7.6	9.8	11.4	0.0	100.
14	8.1	1.6	2.7	3.2	4.3	3.8	7.5	9.1	9.1	8.1	4.3	5.4	3.8	5.9	12.4	10.8	0.0	100.
15	8.1	2.2	3.2	2.7	4.3	3.8	9.2	9.7	7.0	9.7	2.7	4.3	4.9	6.5	9.7	11.9	0.0	100.
16	7.0	2.7	2.2	2.7	4.9	4.3	7.6	9.7	9.7	7.0	3.2	1.6	6.5	7.0	13.0	10.8	0.0	100.
17	7.0	4.3	1.6	3.2	5.4	3.2	8.1	9.7	9.7	6.5	3.8	2.2	3.8	7.6	12.4	11.4	0.0	100.
18	7.0	4.3	2.2	3.2	4.8	4.8	9.1	8.6	10.8	7.5	1.6	1.6	2.7	4.3	14.0	12.4	1.1	100.
19	5.9	6.5	1.6	5.9	2.2	5.4	7.5	9.7	11.3	5.9	2.7	2.2	3.8	4.3	8.6	16.1	0.5	100.
20	7.5	6.5	2.2	2.7	4.3	6.5	8.1	9.1	11.3	5.9	3.2	2.2	2.2	4.8	7.5	15.6	0.5	100.
21	9.1	4.3	5.9	1.6	4.8	3.2	8.6	8.6	12.4	6.5	2.2	1.6	5.9	4.8	8.1	12.4	0.0	100.
22	7.5	7.0	2.2	2.2	4.8	2.7	10.2	9.1	10.2	7.0	5.4	1.1	3.8	7.5	7.5	11.8	0.0	100.
23	9.7	4.3	1.6	2.7	5.9	2.2	8.6	8.6	10.8	9.7	5.4	1.6	2.2	7.0	7.5	12.4	0.0	100.
24	10.2	1.6	5.4	2.2	2.7	4.8	8.1	6.5	11.8	9.1	7.0	3.2	2.2	5.9	7.0	12.4	9.0	100.
ALL	8.3	3.9	3.1	2.4	3.0	4.6	8.5	7.9	10.3	7.7	4.8	2.2	4.1	6.6	10.4	12.0	0.2	100.

NUMBER OF OBS = 4438

Precipitation

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995

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
95	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
95	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
95	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
95	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
95	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
95	1	6	0.10 0.00	0.10 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	0.40
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995

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	12M 12MDWT	TOTAL
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	1	27	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	0.00 0.00	0.00 0.00	0.20
95	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
95	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
95	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
95	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 1995

RAIN VERSION # 2P

MONTH OF JANUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 6
 TOTAL DAYS WITH PRECIPITATION - 2
 TOTAL AMOUNT OF PRECIPITATION - 0.60 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 27 HOUR 2 - 0.10 INCHES
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 6 HOUR 1 - 0.40 INCHES
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 6 HOUR 1 - 0.40 INCHES
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 6 HOUR 1 - 0.40 INCHES
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 6 HOUR 1 - 0.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 503
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 4
 TOTAL DAYS WITH PRECIPITATION - 1
 TOTAL AMOUNT OF PRECIPITATION - 0.40 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995

RAIN VERSION # 2P

MONTH OF JANUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	6	16	28	40	52
0.02	6	16	28	40	52
0.03	6	16	28	40	52
0.04	6	16	28	40	52
0.05	6	16	28	40	52
0.07	6	16	28	40	52
0.10	6	16	28	40	52
0.15	0	12	24	36	48
0.20	0	12	24	36	48
0.25	0	5	11	17	23
0.30	0	5	11	17	23
0.35	0	3	9	15	21
0.40	0	3	9	15	21
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

B71

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995

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
95	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
95	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	0.02
95	2	3	0.10 0.00	0.04 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.14
95	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
95	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	0.03
95	2	6	0.00 0.04	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 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	0.14
95	2	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
95	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
95	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
95	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
95	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
95	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
95	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	0.01
95	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
95	2	15	0.01 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.01
95	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
95	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	0.00 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 1995

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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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	0.10 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.10
95	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

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995

RAIN VERSION # 2P

MONTH OF FEBRUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 672
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 9
 TOTAL DAYS WITH PRECIPITATION - 7
 TOTAL AMOUNT OF PRECIPITATION - 0.45 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.14 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 27 HOUR 7 - 0.10 INCHES
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 2 HOUR 21 - 0.16 INCHES
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 2 HOUR 21 - 0.16 INCHES
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 2 HOUR 21 - 0.16 INCHES
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 5 HOUR 17 - 0.17 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 317
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 4
 TOTAL DAYS WITH PRECIPITATION - 3
 TOTAL AMOUNT OF PRECIPITATION - 0.18 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.14 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995

MONTH OF FEBRUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	9	42	78	114	145
0.02	7	30	54	78	97
0.03	6	26	50	74	93
0.04	5	24	38	56	74
0.05	3	18	36	54	72
0.07	3	18	36	54	72
0.10	3	18	36	54	72
0.15	0	1	7	13	23
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 1995

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	12M 12MDNT	TOTAL
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	3	13	0.00 9.99	0.00 0.10	0.10 0.10	0.20 0.00	0.10 0.00	0.00 0.10	0.00 0.10	0.00 0.10	0.10 0.10	0.00 0.00	0.00 0.00	0.00 0.00	1.10
95	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
95	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
95	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
95	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	0.00 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 1995

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
95	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
95	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 0.20	0.00 0.00	0.20
95	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
95	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
95	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
95	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	3	25	0.00 0.20	0.00 0.30	0.00 0.20	0.00 0.00	0.00 0.10	0.00 0.20	0.00 0.10	0.00 0.20	0.00 0.10	0.00 0.00	0.00 0.00	0.00 0.00	1.40
95	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
95	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
95	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
95	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
95	3	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
95	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

MONTH OF MARCH

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 1
TOTAL HOURS OF PRECIPITATION - 19
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - 2.70 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
MAXIMUM DAILY PRECIPITATION - 1.40 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 14 - 0.30 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 13 - 1.00 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 13 - 1.40 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 13 - 1.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 13 - 1.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 201
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 1995

RAIN VERSION # 2P

MONTH OF MARCH

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	19	44	62	80	98
0.02	19	44	62	80	98
0.03	19	44	62	80	98
0.04	19	44	62	80	98
0.05	19	44	62	80	98
0.07	19	44	62	80	98
0.10	19	44	62	80	98
0.15	7	38	59	77	95
0.20	7	38	59	77	95
0.25	1	25	45	57	69
0.30	1	25	45	57	69
0.35	0	21	41	54	66
0.40	0	21	41	54	66
0.45	0	10	31	46	58
0.50	0	10	31	46	58
0.60	0	9	23	39	51
0.70	0	8	14	32	44
0.80	0	4	10	21	33
0.90	0	2	9	18	30
1.00	0	1	8	16	28
1.10	0	0	7	13	25
1.20	0	0	6	12	18
1.30	0	0	5	11	17
1.40	0	0	4	10	16
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

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2160
NUMBER OF MISSING HOURS - 1
TOTAL HOURS OF PRECIPITATION - 34
TOTAL DAYS WITH PRECIPITATION - 12
TOTAL AMOUNT OF PRECIPITATION - 3.75 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
MAXIMUM DAILY PRECIPITATION - 1.40 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	3 DAY 25 HOUR 14	- 0.30 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	3 DAY 25 HOUR 13	- 1.00 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	3 DAY 25 HOUR 13	- 1.40 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	3 DAY 25 HOUR 13	- 1.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	3 DAY 25 HOUR 13	- 1.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1021
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 8
TOTAL DAYS WITH PRECIPITATION - 4
TOTAL AMOUNT OF PRECIPITATION - 0.58 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	34	102	168	234	295
0.02	32	90	144	198	247
0.03	31	86	140	194	243
0.04	30	80	128	176	224
0.05	28	78	126	174	222
0.07	28	78	126	174	222
0.10	28	78	126	174	222
0.15	7	51	90	126	166
0.20	7	50	83	113	143
0.25	1	30	56	74	92
0.30	1	30	56	74	92
0.35	0	24	50	69	87
0.40	0	24	50	69	87
0.45	0	10	31	46	58
0.50	0	10	31	46	58
0.60	0	9	23	39	51
0.70	0	8	14	32	44
0.80	0	4	10	21	33
0.90	0	2	9	18	30
1.00	0	1	8	16	28
1.10	0	0	7	13	25
1.20	0	0	6	12	18
1.30	0	0	5	11	17
1.40	0	0	4	10	16
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 1995

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
95	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
95	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	3.00 0.00	0.00 0.00	0.00
95	4	3	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
95	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
95	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
95	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
95	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
95	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
95	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
95	4	10	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.20 0.00	0.10 0.00	0.20 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.10 0.00	0.60
95	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
95	4	12	0.00 0.00	0.00 0.00	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
95	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
95	4	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
95	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
95	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
95	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	0.00 0.00	0.00 0.10	0.00 0.10	0.00 0.10	0.00 0.00	0.00 0.00	0.30

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995

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
95	4	18	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
95	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
95	4	20	0.00 0.00	0.10 0.00	0.00 0.00	0.20 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 0.30	0.00 0.00	0.50
95	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	0.10 0.00	0.00 0.00	0.00 0.00	0.10
95	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
95	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
95	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
95	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 0.30	0.00 0.20	0.00 0.00	0.50
95	4	26	0.00 0.10	0.00 0.00	0.00 0.10	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	0.10 0.00	0.10 0.00	0.60
95	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
95	4	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
95	4	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
95	4	30	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.10	0.00 0.10	0.00 0.00	0.00 0.10	0.00 0.10	0.00 0.00	0.00 0.00	0.40

MONTH OF APRIL

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 25
TOTAL DAYS WITH PRECIPITATION - 9
TOTAL AMOUNT OF PRECIPITATION - 3.20 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
MAXIMUM DAILY PRECIPITATION - 0.60 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 22 - 0.30 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 26 HGUR 11 - 0.60 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 26 HOUR 11 - 0.60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 22 - 0.90 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 22 - 1.10 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 17
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 1995

RAIN VERSION # 2P

MONTH OF APRIL

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	25	74	116	152	188
0.02	25	74	116	152	188
0.03	25	74	116	152	188
0.04	25	74	116	152	188
0.05	25	74	116	152	188
0.07	25	74	116	152	188
0.10	25	74	116	152	188
0.15	6	44	75	100	124
0.20	6	44	75	100	124
0.25	1	35	66	93	117
0.30	1	35	66	93	117
0.35	0	20	50	79	103
0.40	0	20	50	79	103
0.45	0	13	37	61	79
0.50	0	13	37	61	79
0.60	0	1	12	29	41
0.70	0	0	0	5	11
0.80	0	0	0	4	10
0.90	0	0	0	1	7
1.00	0	0	0	0	6
1.10	0	0	0	0	6
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 APR-JUN 1995

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	12M 12MDNT	TOTAL
95	5	1	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
95	5	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
95	5	3	0.10 0.00	0.00 0.00	0.00 0.10	0.10 0.10	0.00 0.00	0.00 0.10	0.00 0.00	0.00 0.00	0.10 0.10	0.00 0.00	0.00 0.10	0.00 0.00	0.80
95	5	4	0.10 0.00	0.00 0.10	0.00 0.00	0.00 0.10	0.00 0.00	0.00 0.10	0.00 0.00	0.00 0.00	0.00 0.00	0.10 0.10	0.00 0.10	0.00 0.00	0.60
95	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
95	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
95	5	7	0.00 0.20	0.00 0.70	0.00 0.40	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 0.10	1.70
95	5	8	0.00 0.00	0.00 0.00	0.00 0.10	0.00 0.00	0.00 0.10	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.30	0.00 0.00	0.00 0.00	0.00 0.00	0.50
95	5	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
95	5	10	0.00 0.00	0.20 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	0.30
95	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
95	5	12	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 0.20	0.20 0.60	0.30 0.00	1.50
95	5	13	0.10 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	0.20
95	5	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
95	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
95	5	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
95	5	17	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 0.10	0.00 0.00	0.00 0.00	0.00 0.10	0.30

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995

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	12M 12MDNT	TOTAL
95	5	18	0.30 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	0.00 0.00	0.40
95	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
95	5	20	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 0.00	0.00
95	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
95	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	0.10 0.00	0.00 0.00	1.40
95	5	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 0.10	0.20 0.00	0.30 0.00	0.00 0.00	0.00 0.00	0.00 0.00	1.20
95	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
95	5	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
95	5	26	0.00 0.20	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	0.30
95	5	27	0.10 0.00	0.00 0.00	0.00 0.00	0.20 0.00	0.30 0.00	0.30 0.00	0.30 0.00	0.10 0.00	0.10 0.00	0.10 0.00	0.00 0.00	0.00 0.00	1.50
95	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
95	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
95	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
95	5	31	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.20	0.00 0.00	0.00 0.00	0.00 0.10	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.10	0.00 0.10	0.50

MONTH OF MAY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 60
TOTAL DAYS WITH PRECIPITATION - 15
TOTAL AMOUNT OF PRECIPITATION - 11.30 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.80 INCHES
MAXIMUM DAILY PRECIPITATION - 1.70 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 22 HOUR 22 - 0.80 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 7 HOUR 13 - 1.50 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 22 HOUR 21 - 2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 22 HOUR 21 - 2.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 22 HOUR 21 - 2.50 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

MONTH OF MAY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	60	179	256	306	348
0.02	60	179	256	306	348
0.03	60	179	256	306	348
0.04	60	179	256	306	348
0.05	60	179	256	306	348
0.07	60	179	256	306	348
0.10	60	179	256	306	348
0.15	22	123	203	258	301
0.20	22	123	203	258	301
0.25	13	78	161	226	277
0.30	13	78	161	226	277
0.35	6	49	115	173	226
0.40	6	49	115	173	226
0.45	5	46	99	155	211
0.50	5	46	99	155	211
0.60	4	38	81	122	174
0.70	2	32	67	94	134
0.80	1	29	59	84	113
0.90	0	24	57	82	106
1.00	0	18	51	78	102
1.10	0	18	45	70	94
1.20	0	13	34	66	93
1.30	0	11	32	57	81
1.40	0	3	21	53	80
1.50	0	3	16	42	68
1.60	0	0	5	21	47
1.70	0	0	4	17	39
1.80	0	0	3	9	18
1.90	0	0	3	9	15
2.00	0	0	1	7	15

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

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995

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
95	6	1	0.10 0.00	0.10 0.00	0.20 0.10	0.10 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	0.70
95	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
95	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
95	6	4	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	0.20 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.30
95	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	0.10 0.00	0.00 0.00	0.10 0.00	0.00 0.00	0.00 9.99	0.20
95	6	6	9.99 0.00	9.99 0.00	9.99 0.00	9.99 0.00	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 0.00	0.00 0.00	0.00
95	6	7	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.30	0.00 0.00	0.50 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.50
95	6	8	0.00 0.00	0.00 0.00	1.60 0.00	0.20 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	0.10 0.00	0.00 0.00	2.00
95	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
95	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
95	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
95	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 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	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
95	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
95	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
95	6	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
95	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 1995

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
95	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
95	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
95	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
95	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
95	6	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
95	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	0.40
95	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
95	6	25	0.00 0.00	0.00 0.10	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	0.10 0.10	0.00 0.00	0.10 0.00	0.60
95	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	0.10 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.10
95	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
95	6	28	0.10 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	0.20
95	6	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
95	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 1995

RAIN VERSION # 2P

MONTH OF JUNE

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
 NUMBER OF MISSING HOURS - 8
 TOTAL HOURS OF PRECIPITATION - 25
 TOTAL DAYS WITH PRECIPITATION - 9
 TOTAL AMOUNT OF PRECIPITATION - 5.00 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 1.60 INCHES
 MAXIMUM DAILY PRECIPITATION - 2.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT	PERCIPITATION STARTS DAY	8 HOUR	3 -	1.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT	PERCIPITATION STARTS DAY	8 HOUR	3 -	1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT	PERCIPITATION STARTS DAY	8 HOUR	3 -	2.00 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT	PERCIPITATION STARTS DAY	8 HOUR	3 -	2.00 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT	PERCIPITATION STARTS DAY	7 HOUR	6 -	2.40 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 1995

RAIN VERSION # 2P

MONTH OF JUNE

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	25	94	146	188	222
0.02	25	94	146	188	222
0.03	25	94	146	188	222
0.04	25	94	146	188	222
0.05	25	94	146	188	222
0.07	25	94	146	188	222
0.10	25	94	146	188	222
0.15	6	51	106	150	191
0.20	6	51	106	150	191
0.25	3	25	62	99	129
0.30	3	25	62	99	129
0.35	3	20	46	74	97
0.40	3	20	46	74	97
0.45	2	13	25	46	63
0.50	2	13	25	46	63
0.60	1	6	12	22	36
0.70	1	6	12	19	25
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	1	6	12	18	24
1.30	1	6	12	18	24
1.40	1	6	12	18	24
1.50	1	6	12	18	24
1.60	1	6	12	18	24
1.70	0	5	11	17	24
1.80	0	5	11	17	24
1.90	0	4	10	16	24
2.00	0	0	4	10	19

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

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2184
NUMBER OF MISSING HOURS - 8
TOTAL HOURS OF PRECIPITATION - 110
TOTAL DAYS WITH PRECIPITATION - 33
TOTAL AMOUNT OF PRECIPITATION - 19.50 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.60 INCHES
MAXIMUM DAILY PRECIPITATION - 2.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	6 DAY	8 HOUR	3 -	1.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	6 DAY	8 HOUR	3 -	1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	5 DAY	22 HOUR	21 -	2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	5 DAY	22 HOUR	21 -	2.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH	5 DAY	22 HOUR	21 -	2.50 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 17
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

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	110	357	540	680	804
0.02	110	357	540	680	804
0.03	110	357	540	680	804
0.04	110	357	540	680	804
0.05	110	357	540	680	804
0.07	110	357	540	680	804
0.10	110	357	540	680	804
0.15	34	226	404	540	660
0.20	34	226	404	540	660
0.25	17	145	308	449	566
0.30	17	145	308	449	566
0.35	9	93	228	355	467
0.40	9	93	228	355	467
0.45	7	75	177	290	393
0.50	7	75	177	290	393
0.60	5	48	116	190	274
0.70	3	39	88	134	192
0.80	2	35	75	118	168
0.90	1	30	70	108	157
1.00	1	24	63	102	145
1.10	1	24	55	88	125
1.20	1	19	46	84	117
1.30	1	17	44	75	105
1.40	1	9	33	71	104
1.50	1	9	28	60	92
1.60	1	6	17	39	71
1.70	0	5	15	34	63
1.80	0	5	14	26	42
1.90	0	4	13	25	39
2.00	0	0	5	17	34

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4344
NUMBER OF MISSING HOURS - 9
TOTAL HOURS OF PRECIPITATION - 144
TOTAL DAYS WITH PRECIPITATION - 45
TOTAL AMOUNT OF PRECIPITATION - 23.25 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.60 INCHES
MAXIMUM DAILY PRECIPITATION - 2.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	6 DAY 8 HOUR 3 -	1.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	6 DAY 8 HOUR 3 -	1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	5 DAY 22 HOUR 21 -	2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	5 DAY 22 HOUR 21 -	2.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	5 DAY 22 HOUR 21 -	2.50 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1038
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 8
TOTAL DAYS WITH PRECIPITATION - 4
TOTAL AMOUNT OF PRECIPITATION - 0.58 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	144	459	708	914	1099
0.02	142	447	684	878	1051
0.03	141	443	680	874	1047
0.04	140	437	668	856	1028
0.05	138	435	666	854	1026
0.07	138	435	666	854	1026
0.10	138	435	666	854	1026
0.15	41	277	494	666	826
0.20	41	276	487	653	803
0.25	18	175	364	523	658
0.30	18	175	364	523	658
0.35	9	117	278	424	554
0.40	9	117	278	424	554
0.45	7	85	208	336	451
0.50	7	85	208	336	451
0.60	5	57	139	229	325
0.70	3	47	102	166	236
0.80	2	39	85	139	201
0.90	1	32	79	126	187
1.00	1	25	71	118	173
1.10	1	24	62	101	150
1.20	1	19	52	96	135
1.30	1	17	49	86	122
1.40	1	9	37	81	120
1.50	1	9	28	60	92
1.60	1	6	17	39	71
1.70	0	5	15	34	63
1.80	0	5	14	26	42
1.90	0	4	13	25	39
2.00	0	0	5	17	34

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1995

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
95	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
95	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	7	4	0.30 0.00	0.20 0.50	0.20 0.60	0.20 0.00	0.00 0.00	0.00 0.00	0.00 0.10	0.00 0.00	0.00 0.00	0.00 0.40	0.00 0.00	0.00 0.00	2.50
95	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
95	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
95	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
95	7	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
95	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
95	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
95	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
95	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
95	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 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	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
95	7	15	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 0.60	0.00 0.00	0.00 0.10	0.00 0.10	0.00 0.00	0.90
95	7	16	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1995

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
95	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
95	7	19	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.10	0.00 0.20	0.00 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
95	7	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
95	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
95	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	0.10
95	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
95	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
95	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
95	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
95	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
95	7	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
95	7	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
95	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
95	7	31	0.00 0.00	0.00 0.00	0.00 0.50	0.00 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 0.00	0.00 0.00	1.00

NPPD-COOPER NUCLEAR STATION PERCIPITATION DATA FOR JUL-SEP 1995

RAIN VERSION # 2P

MONTH OF JULY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 21
 TOTAL DAYS WITH PRECIPITATION - 6
 TOTAL AMOUNT OF PRECIPITATION - 5.40 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.60 INCHES
 MAXIMUM DAILY PRECIPITATION - 2.50 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 20 - 0.60 INCHES
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 4 HOUR 14 - 1.20 INCHES
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 4 HOUR 14 - 1.60 INCHES
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 4 HOUR 1 - 2.00 INCHES
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 4 HOUR 1 - 2.50 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 PERCIPITATION DATA FOR JUL-SEP 1995

RAIN VERSION # 2P

MONTH OF JULY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	21	60	90	114	138
0.02	21	60	90	114	138
0.03	21	60	90	114	138
0.04	21	60	90	114	138
0.05	21	60	90	114	138
0.07	21	60	90	114	138
0.10	21	60	90	114	138
0.15	12	45	71	89	107
0.20	12	45	71	89	107
0.25	8	43	70	88	106
0.30	8	43	70	88	106
0.35	7	39	66	84	102
0.40	7	39	66	84	102
0.45	4	35	63	81	99
0.50	4	35	63	81	99
0.60	2	27	56	74	92
0.70	0	26	55	74	92
0.80	0	20	50	69	87
0.90	0	14	40	53	65
1.00	0	9	24	37	49
1.10	0	5	12	19	25
1.20	0	1	8	18	24
1.30	0	0	5	18	24
1.40	0	0	4	18	24
1.50	0	0	4	16	23
1.60	0	0	4	16	23
1.70	0	0	0	5	13
1.80	0	0	0	5	13
1.90	0	0	0	4	12
2.00	0	0	0	4	12

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

B101

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 1995

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
95	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
95	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
95	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
95	8	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
95	8	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
95	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
95	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
95	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
95	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	8	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
95	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
95	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
95	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 0.00	0.00 0.00	0.00 0.00	1.50
95	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	0.20
95	8	16	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
95	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	0.00 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 1995

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
95	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	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
95	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
95	8	22	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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 PERCIPITATION DATA FOR JUL-SEP 1995

RAIN VERSION # 2P

MONTH OF AUGUST

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 9
 TOTAL DAYS WITH PRECIPITATION - 3
 TOTAL AMOUNT OF PRECIPITATION - 1.80 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.60 INCHES
 MAXIMUM DAILY PRECIPITATION - 1.50 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 14 HOUR 4 - 0.60 INCHES
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 14 HOUR 4 - 0.80 INCHES
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 14 HOUR 4 - 0.80 INCHES
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 14 HOUR 4 - 1.50 INCHES
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 14 HOUR 4 - 1.50 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 PERCIPITATION DATA FOR JUL-SEP 1995

RAIN VERSION # 2P

MONTH OF AUGUST

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	9	30	46	58	69
0.02	9	30	46	58	69
0.03	9	30	46	58	69
0.04	9	30	46	58	69
0.05	9	30	46	58	69
0.07	9	30	46	58	69
0.10	9	30	46	58	69
0.15	4	21	39	53	65
0.20	4	21	39	53	65
0.25	2	14	33	48	60
0.30	2	14	33	48	60
0.35	1	12	24	34	41
0.40	1	12	24	34	41
0.45	1	11	24	34	40
0.50	1	11	24	34	40
0.60	1	10	22	33	39
0.70	0	9	21	32	38
0.80	0	1	7	18	24
0.90	0	0	0	4	10
1.00	0	0	0	3	9
1.10	0	0	0	2	8
1.20	0	0	0	2	8
1.30	0	0	0	1	7
1.40	0	0	0	1	7
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 JUL-SEP 1995

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
95	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
95	9	2	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
95	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
95	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
95	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
95	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	9	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
95	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
95	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
95	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
95	9	12	0.00 0.00	0.60 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	0.80
95	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
95	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
95	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 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	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
95	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	0.00 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 1995

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
95	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	0.20 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.10	0.30
95	9	19	0.20 0.00	0.10 0.00	0.20 0.00	0.10 0.00	0.10 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	0.90
95	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
95	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
95	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
95	9	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
95	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
95	9	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
95	9	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
95	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
95	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
95	9	29	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	0.50
95	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 PERCIPITATION DATA FOR JUL-SEP 1995

RAIN VERSION # 2P

MONTH OF SEPTEMBR

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 14
 TOTAL DAYS WITH PRECIPITATION - 5
 TOTAL AMOUNT OF PRECIPITATION - 2.60 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.60 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.90 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 12 HOUR 2 - 0.60 INCHES
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 1 - 0.90 INCHES
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 18 HOUR 24 - 1.00 INCHES
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 18 HOUR 24 - 1.00 INCHES
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 18 HOUR 8 - 1.20 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 PERCIPITATION DATA FOR JUL-SEP 1995

RAIN VERSION # 2P

MONTH OF SEPTEMBR

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	14	45	81	114	138
0.02	14	45	81	114	138
0.03	14	45	81	114	138
0.04	14	45	81	114	138
0.05	14	45	81	114	138
0.07	14	45	81	114	138
0.10	14	45	81	114	138
0.15	6	29	53	77	95
0.20	6	29	53	77	95
0.25	2	22	40	59	77
0.30	2	22	40	59	77
0.35	2	20	38	57	75
0.40	2	20	38	57	75
0.45	1	16	34	53	72
0.50	1	16	34	53	72
0.60	1	12	24	36	49
0.70	0	9	21	33	46
0.80	0	2	8	14	28
0.90	0	1	7	13	21
1.00	0	0	6	12	19
1.10	0	0	0	0	2
1.20	0	0	0	0	2
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

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 44
TOTAL DAYS WITH PRECIPITATION - 14
TOTAL AMOUNT OF PRECIPITATION - 9.80 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.60 INCHES
MAXIMUM DAILY PRECIPITATION - 2.50 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	9 DAY 12 HOUR	2 -	0.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR	14 -	1.20 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR	14 -	1.60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR	1 -	2.00 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR	1 -	2.50 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

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	44	135	221	296	361
0.02	44	135	221	296	361
0.03	44	135	221	296	361
0.04	44	135	221	296	361
0.05	44	135	221	296	361
0.07	44	135	221	296	361
0.10	44	135	221	296	361
0.15	22	95	166	228	282
0.20	22	95	166	228	282
0.25	12	79	146	204	258
0.30	12	79	146	204	258
0.35	10	71	131	184	233
0.40	10	71	131	184	233
0.45	6	62	124	177	226
0.50	6	62	124	177	226
0.60	4	49	104	151	194
0.70	0	44	99	147	190
0.80	0	23	67	109	153
0.90	0	15	49	78	110
1.00	0	9	32	60	91
1.10	0	5	12	21	35
1.20	0	1	8	20	34
1.30	0	0	5	19	31
1.40	0	0	4	19	31
1.50	0	0	4	17	30
1.60	0	0	4	16	23
1.70	0	0	0	5	13
1.80	0	0	0	5	13
1.90	0	0	0	4	12
2.00	0	0	0	4	12

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 1995

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
95	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
95	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
95	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
95	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
95	10	5	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
95	10	6	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
95	10	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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
95	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	0.00 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 1995

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
95	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
95	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
95	10	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
95	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
95	10	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
95	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
95	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
95	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
95	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
95	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
95	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
95	10	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
95	10	30	0.00 0.10	0.00 0.00	0.00 0.05	0.00 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 0.00	0.00 0.00	0.35
95	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 0.11	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.11

NPPD-COOPER NUCLEAR STATION PERCIPITATION DATA FOR OCT-DEC 1995

RAIN VERSION # 2P

MONTH OF OCTOBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 7
 TOTAL DAYS WITH PRECIPITATION - 4
 TOTAL AMOUNT OF PRECIPITATION - 0.66 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.11 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.35 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 19 - 0.11 INCHES
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 30 HOUR 10 - 0.35 INCHES
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 30 HOUR 10 - 0.35 INCHES
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 30 HOUR 10 - 0.35 INCHES
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 30 HOUR 10 - 0.35 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 3
 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 PERCIPITATION DATA FOR OCT-DEC 1995

RAIN VERSION # 2P

MONTH OF OCTOBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	7	29	47	65	81
0.02	7	29	47	65	81
0.03	7	29	47	65	81
0.04	7	29	47	65	81
0.05	7	29	47	65	81
0.07	6	27	45	63	79
0.10	6	27	45	63	79
0.15	0	8	14	20	28
0.20	0	6	12	18	26
0.25	0	4	10	16	22
0.30	0	3	9	15	21
0.35	0	1	7	13	19
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 1995

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
95	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	0.10 0.00	0.40 0.00	0.10 0.00	0.10 0.00	0.10 0.00	0.00 0.00	0.80
95	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
95	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
95	11	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
95	11	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	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
95	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
95	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
95	11	10	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
95	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
95	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
95	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
95	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 0.10	0.00 0.00	0.00 0.00	0.10
95	11	15	0.10 0.00	0.16 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	0.26
95	11	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
95	11	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 OCT-DEC 1995

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
95	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
95	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
95	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
95	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
95	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	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	11	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
95	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
95	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
95	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
95	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
95	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
95	11	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
95	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 PERCIPITATION DATA FOR OCT-DEC 1995

RAIN VERSION # 2P

MONTH OF NOVEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 9
 TOTAL DAYS WITH PRECIPITATION - 4
 TOTAL AMOUNT OF PRECIPITATION - 1.26 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.80 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY	1 HOUR	8 -	0.40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY	1 HOUR	7 -	0.80 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY	0 HOUR	0 -	0.00 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY	0 HOUR	0 -	0.00 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY	0 HOUR	0 -	0.00 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 228
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 1
 TOTAL DAYS WITH PRECIPITATION - 1
 TOTAL AMOUNT OF PRECIPITATION - 0.10 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.10 INCHES

NPPD-COOPER NUCLEAR STATION PERCIPITATION DATA FOR OCT-DEC 1995

RAIN VERSION # 2P

MONTH OF NOVEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	9	26	39	51	63
0.02	9	26	39	51	63
0.03	9	26	39	51	63
0.04	9	26	39	51	63
0.05	9	26	39	51	63
0.07	9	26	39	51	63
0.10	9	26	39	51	63
0.15	2	15	23	29	35
0.20	1	14	22	28	34
0.25	1	12	20	26	32
0.30	1	9	17	23	29
0.35	1	8	16	22	28
0.40	1	6	8	8	8
0.45	0	6	8	8	8
0.50	0	6	8	8	8
0.60	0	5	8	8	8
0.70	0	4	8	8	8
0.80	0	2	7	7	7
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 1995

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	12M 12MDN/	TOTAL
95	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
95	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
95	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
95	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
95	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
95	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	0.01 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.01
95	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	0.50 0.00	0.00
95	12	8	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.10 0.00	0.04 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.14
95	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
95	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
95	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
95	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
95	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
95	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
95	12	15	0.00 0.00	0.00 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	0.30
95	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
95	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	0.00 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 1995

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
95	12	18	0.00 0.10	0.00 0.02	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.12
95	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
95	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
95	12	21	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.01 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.01
95	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	0.01 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.01
95	12	23	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.01	0.00 0.00	0.01 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.02
95	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
95	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
95	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
95	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
95	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
95	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
95	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	0.02 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.02
95	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 PERCIPITATION DATA FOR OCT-DEC 1995

RAIN VERSION # 2P

MONTH OF DECEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 11
 TOTAL DAYS WITH PRECIPITATION - 8
 TOTAL AMOUNT OF PRECIPITATION - 0.63 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.30 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 15 - 0.30 INCHES
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 15 - 0.30 INCHES
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 15 - 0.30 INCHES
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 15 - 0.30 INCHES
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 15 - 0.30 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 402
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 6
 TOTAL DAYS WITH PRECIPITATION - 4
 TOTAL AMOUNT OF PRECIPITATION - 0.18 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.14 INCHES

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NPPD-COOPER NUCLEAR STATION PERCIPITATION DATA FOR OCT-DEC 1995

RAIN VERSION # 2P

MONTH OF DECEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	11	56	198	156	204
0.02	6	26	52	82	112
0.03	4	19	37	55	73
0.04	4	19	37	55	73
0.05	3	18	36	54	72
0.07	3	18	36	54	72
0.10	3	18	36	54	72
0.15	1	6	12	18	24
0.20	1	6	12	18	24
0.25	1	6	12	18	24
0.30	1	6	12	18	24
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 PERCIPITATION DATA FOR OCT-DEC 1995

RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 27
 TOTAL DAYS WITH PRECIPITATION - 16
 TOTAL AMOUNT OF PRECIPITATION - 2.55 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.80 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 11 DAY 1 HOUR 8 - 0.40 INCHES
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 11 DAY 1 HOUR 7 - 0.80 INCHES
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 11 DAY 1 HOUR 7 - 0.80 INCHES
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 10 DAY 31 HOUR 19 - 0.91 INCHES
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 10 DAY 31 HOUR 19 - 0.91 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 633
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 7
 TOTAL DAYS WITH PRECIPITATION - 5
 TOTAL AMOUNT OF PRECIPITATION - 0.28 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.14 INCHES

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	27	111	205	289	371
0.02	22	81	149	215	279
0.03	20	74	134	188	240
0.04	20	74	134	188	240
0.05	19	73	133	187	239
0.07	18	71	131	185	237
0.10	18	71	131	185	237
0.15	3	29	53	78	104
0.20	2	26	50	75	101
0.25	2	22	46	70	94
0.30	2	18	42	66	90
0.35	1	9	27	45	63
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	18	24
0.70	0	4	10	17	23
0.80	0	2	8	15	21
0.90	0	0	0	2	8
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 PERCIPITATION DATA FOR JUL-DEC 1995

RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4416
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 71
 TOTAL DAYS WITH PRECIPITATION - 30
 TOTAL AMOUNT OF PRECIPITATION - 12.35 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.60 INCHES
 MAXIMUM DAILY PRECIPITATION - 2.50 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	9 DAY 12 HOUR	2 -	0.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR	14 -	1.20 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR	14 -	1.60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR	1 -	2.00 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR	1 -	2.50 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 634
 NUMBER OF MISSING HOURS - 0
 TOTAL HOURS OF PRECIPITATION - 7
 TOTAL DAYS WITH PRECIPITATION - 5
 TOTAL AMOUNT OF PRECIPITATION - 0.28 INCHES
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
 MAXIMUM DAILY PRECIPITATION - 0.14 INCHES

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	71	246	426	585	732
0.02	66	216	370	511	640
0.03	64	209	355	484	601
0.04	64	209	355	484	601
0.05	63	208	354	483	600
0.07	62	206	352	481	598
0.10	62	206	352	481	598
0.15	25	124	219	306	386
0.20	24	121	216	303	383
0.25	14	101	192	274	352
0.30	14	97	188	270	348
0.35	11	80	158	229	296
0.40	11	77	143	202	257
0.45	6	68	136	195	250
0.50	6	68	136	195	250
0.60	4	54	115	169	218
0.70	0	48	109	164	213
0.80	0	25	75	124	174
0.90	0	15	49	80	118
1.00	0	9	32	60	91
1.10	0	5	12	21	35
1.20	0	1	8	20	34
1.30	0	0	5	19	31
1.40	0	0	4	19	31
1.50	0	0	4	17	30
1.60	0	0	4	16	23
1.70	0	0	0	5	13
1.80	0	0	0	5	13
1.90	0	0	0	4	12
2.00	0	0	0	4	12

ANNUAL INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 8760
NUMBER OF MISSING HOURS - 9
TOTAL HOURS OF PRECIPITATION - 215
TOTAL DAYS WITH PRECIPITATION - 75
TOTAL AMOUNT OF PRECIPITATION - 35.60 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.60 INCHES
MAXIMUM DAILY PRECIPITATION - 2.50 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	6 DAY 8 HOUR 3 -	1.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	6 DAY 8 HOUR 3 -	1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	5 DAY 22 HOUR 21 -	2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	5 DAY 22 HOUR 21 -	2.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH	7 DAY 4 HOUR 1 -	2.50 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1672
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 15
TOTAL DAYS WITH PRECIPITATION - 9
TOTAL AMOUNT OF PRECIPITATION - 0.86 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

NPPD-COOPER NUCLEAR STATION PERCIPITATION DATA FOR JAN-DEC 1995

RAIN VERSION # 2P

ANNUAL INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS)				
	1	6	12	18	24
0.01	215	705	1134	1499	1831
0.02	208	663	1054	1389	1691
0.03	205	652	1035	1358	1648
0.04	204	646	1023	1340	1629
0.05	201	643	1020	1337	1626
0.07	200	641	1018	1335	1624
0.10	200	641	1018	1335	1624
0.15	66	401	713	972	1212
0.20	65	397	703	956	1186
0.25	32	276	556	797	1010
0.30	32	272	552	793	1006
0.35	20	197	436	653	850
0.40	20	194	421	626	811
0.45	13	153	344	531	701
0.50	13	153	344	531	701
0.60	9	111	254	398	543
0.70	3	95	211	330	449
0.80	2	64	160	263	375
0.90	1	47	128	206	305
1.00	1	34	103	178	264
1.10	1	29	74	122	185
1.20	1	20	60	116	169
1.30	1	17	54	105	153
1.40	1	9	41	100	151
1.50	1	9	32	77	122
1.60	1	6	21	55	94
1.70	0	5	15	39	76
1.80	0	5	14	31	55
1.90	0	4	13	29	51
2.00	0	0	5	21	46

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 (ΔT) for the 100-meter JFDs and the 60-meter to 10-meter ΔT for the 10-meter JFDs.

JFDs of 10-Meter Wind vs. Delta T

January-March 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3
3.51- 7.50	11	1	2	8	7	7	1	1	0	1	0	0	1	2	1	0	43
7.51-12.50	20	4	0	0	1	4	4	5	6	1	1	0	0	1	1	5	53
12.51-18.50	1	0	0	0	0	1	12	4	5	1	1	0	0	3	5	8	41
18.51-24.00	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	4	7
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	33	5	3	8	8	12	18	10	13	3	2	0	1	6	8	17	147

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	0	0	0	0	2	1	0	0	0	1	0	0	1	1	0	7
3.51- 7.50	7	4	3	2	2	5	2	2	1	4	4	3	0	0	2	1	42
7.51-12.50	9	1	1	0	0	1	3	0	2	7	1	0	0	0	5	7	37
12.51-18.50	2	0	0	0	0	0	1	6	1	1	1	0	0	2	5	10	29
18.51-24.00	0	0	0	0	0	0	0	0	1	3	0	0	0	0	2	2	8
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
TOTAL	19	5	4	2	2	8	7	8	6	15	7	3	0	3	15	21	125

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
3.51- 7.50	12	5	3	1	1	3	8	3	4	4	1	4	2	0	3	6	60
7.51-12.50	10	3	0	1	0	2	8	1	2	3	1	1	0	1	5	16	54
12.51-18.50	0	0	0	0	0	1	3	2	2	2	1	1	0	2	12	7	33
18.51-24.00	0	0	0	0	0	0	0	0	1	5	0	0	0	0	1	3	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	22	8	4	2	1	6	19	6	9	14	4	6	2	3	21	32	159

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	6	3	4	3	3	4	9	9	7	8	1	1	0	2	5	71
3.51- 7.50	37	32	15	7	16	23	40	8	14	12	5	6	13	8	18	22	276
7.51-12.50	28	9	0	1	9	4	44	7	17	7	2	2	8	19	83	49	289
12.51-18.50	4	0	0	0	1	7	17	4	24	5	1	3	6	16	31	52	171
18.51-24.00	0	0	0	0	0	0	1	0	4	5	5	6	12	8	7	20	68
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
TOTAL	75	47	18	12	29	37	106	28	68	36	21	18	42	52	141	148	878

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - : 31/95

*** JAN-MAR 1995 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	12	6	10	5	2	0	2	9	9	5	4	1	7	8	14	18	112
3.51- 7.50	18	2	1	1	3	9	19	10	21	17	4	2	4	12	34	35	192
7.51-12.50	6	2	0	0	0	0	16	7	15	10	10	3	0	6	25	28	128
12.51-18.50	0	0	0	0	0	0	9	10	4	4	1	2	1	1	9	13	54
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	36	10	11	6	5	9	46	36	49	37	19	8	12	27	82	94	488

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	3	5	2	0	0	0	0	7	14	12	7	2	1	7	3	13	76
3.51- 7.50	2	0	0	0	0	0	1	7	26	16	2	1	3	2	1	3	64
7.51-12.50	0	0	0	0	0	0	0	0	11	7	0	1	5	4	1	2	31
12.51-18.50	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	5	2	0	0	0	1	14	52	35	9	5	9	14	5	18	175

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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	5	9	2	1	1	2	6	12	19	9	6	1	1	0	5	7	86
3.51- 7.50	2	0	0	0	0	0	0	1	6	2	0	0	0	0	0	2	13
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	1	0	1	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	7	9	2	1	1	2	6	13	25	11	7	2	1	1	5	9	103

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	3
1.01- 3.50	28	26	19	10	6	7	14	37	51	33	27	5	10	16	25	43	357
3.51- 7.50	89	44	24	19	29	47	71	32	72	56	16	16	23	24	59	69	690
7.51-12.50	73	19	1	2	10	11	75	20	53	35	16	8	13	32	120	107	595
12.51-18.50	7	0	0	0	1	9	42	26	37	13	5	7	7	25	62	90	331
18.51-24.00	0	0	0	0	0	0	1	0	8	14	5	6	12	8	11	29	94
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	2	1	0	1	5
TOTAL	197	89	44	31	46	74	203	115	222	151	69	42	67	106	277	339	2075

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2075

TOTAL NUMBER OF MISSING OBSERVATIONS: 85

PERCENT DATA RECOVERY FOR THIS PERIOD: 96.1 %

MEAN WIND SPEED FOR THIS PERIOD: 8.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
7.08	6.02	7.66	42.31	23.52	8.43	4.96

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	33	5	3	8	8	12	18	10	13	3	2	0	1	6	8	17	0
B	19	5	4	2	2	8	7	8	6	15	7	3	0	3	15	21	0
C	22	8	4	2	1	6	19	6	9	14	4	6	2	3	21	32	0
D	75	47	18	12	29	37	106	28	68	36	21	18	42	52	141	148	0
E	36	10	11	6	5	9	46	36	49	37	19	8	12	27	82	94	1
F	5	5	2	0	0	0	1	14	52	35	9	5	9	14	5	18	1
G	7	9	2	1	1	2	6	13	25	11	7	2	1	1	5	9	1
TOTAL	197	89	44	31	46	74	203	115	222	151	69	42	67	106	277	339	3

JFDs of 10-Meter Wind vs. Delta T

April-June 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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	1	0	0	2	0	0	0	0	0	0	1	0	0	1	5
3.51- 7.50	18	9	7	11	6	10	15	8	4	1	0	0	0	0	1	5	95
7.51-12.50	13	3	6	15	4	18	23	22	24	9	1	0	1	0	8	22	169
12.51-18.50	1	1	0	1	0	1	0	5	20	7	4	1	5	1	1	7	55
18.51-24.00	0	0	0	0	0	0	0	3	1	7	0	0	0	0	0	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	32	13	14	27	10	31	38	38	49	24	5	1	7	1	10	35	335

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	1	4	0	0	0	1	1	0	0	0	0	0	0	0	0	7
3.51- 7.50	16	5	4	7	4	4	7	3	7	2	1	0	0	1	3	6	70
7.51-12.50	5	7	12	1	2	8	2	5	14	17	0	0	1	1	5	14	94
12.51-18.50	2	2	0	1	0	0	1	4	3	1	1	1	4	0	1	3	24
18.51-24.00	0	0	0	0	0	0	0	2	0	1	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	23	15	20	9	6	12	11	15	24	21	2	1	5	2	9	23	198

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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	1	2	0	1	1	0	0	1	1	1	0	0	0	0	1	0	9
3.51- 7.50	12	2	6	3	1	6	6	4	4	4	2	0	0	2	3	11	66
7.51-12.50	8	8	4	4	2	5	9	7	8	11	0	0	1	2	5	15	89
12.51-18.50	1	0	0	0	0	0	1	2	5	1	4	4	1	6	7	2	34
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	22	12	10	8	4	11	16	14	18	18	6	4	3	11	16	28	201

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	7	4	4	2	3	0	0	0	3	3	1	1	1	1	2	7	39
3.51- 7.50	35	25	7	10	6	19	9	20	7	10	3	4	3	12	20	16	206
7.51-12.50	26	23	13	5	13	12	17	17	15	12	8	0	4	16	31	26	238
12.51-18.50	2	3	5	1	0	0	1	10	5	2	10	6	6	18	12	9	90
18.51-24.00	0	0	0	0	0	0	0	1	1	0	0	6	5	15	0	1	29
>24.00	0	0	0	0	0	0	0	0	0	0	0	5	2	2	0	0	9
TOTAL	70	55	29	18	22	31	27	48	31	27	22	22	21	64	65	59	611

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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	12	4	7	1	2	0	2	14	24	13	2	6	1	4	5	7	104
3.51- 7.50	15	4	6	2	3	10	17	24	25	10	2	4	0	4	3	23	152
7.51-12.50	2	0	0	0	2	0	9	4	5	5	1	3	2	11	10	3	57
12.51-18.50	0	0	0	0	0	0	0	5	2	1	2	0	5	0	0	0	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	29	8	13	3	7	10	28	47	56	29	7	13	9	19	18	33	329

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	2	2	1	1	0	0	2	9	17	17	4	1	1	4	10	14	85
3.51- 7.50	1	0	0	0	1	0	1	4	4	4	1	0	1	2	0	4	23
7.51-12.50	0	0	0	0	0	0	2	0	0	1	0	1	0	1	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	3	2	1	1	1	0	5	13	21	22	5	2	2	7	10	18	113

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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	4	5	1	1	0	1	4	12	9	5	3	2	1	0	6	21	75
3.51- 7.50	0	0	0	0	0	0	0	2	2	0	0	0	0	0	2	2	8
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	5	1	1	0	1	4	14	11	5	3	2	1	0	8	23	83

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	26	18	18	6	6	3	9	37	54	39	10	10	5	9	24	50	324
3.51- 7.50	97	45	30	33	21	49	55	65	53	31	9	8	4	21	32	67	620
7.51-12.50	54	41	35	25	23	43	62	55	66	55	10	4	9	31	59	80	652
12.51-18.50	6	6	5	3	0	1	3	26	35	12	21	12	21	25	21	21	218
18.51-24.00	0	0	0	0	0	0	0	6	2	9	0	6	7	16	0	1	67
>24.00	0	0	0	0	0	0	0	0	0	0	0	5	2	2	0	0	9
TOTAL	183	110	88	67	50	96	129	189	210	146	50	45	48	104	136	219	1870

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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: 1870

TOTAL NUMBER OF MISSING OBSERVATIONS: 314

PERCENT DATA RECOVERY FOR THIS PERIOD: 85.6 %

MEAN WIND SPEED FOR THIS PERIOD: 8.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
17.91	10.59	10.75	32.67	17.59	6.04	4.44

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	32	13	14	27	10	31	38	38	49	24	5	1	7	1	10	35	0
B	23	15	20	9	6	12	11	15	24	21	2	1	5	2	9	23	0
C	22	12	10	8	4	11	16	14	18	18	6	4	3	11	16	28	0
D	70	55	29	18	22	31	27	48	31	27	22	22	21	64	65	59	0
E	29	8	13	3	7	10	28	47	56	29	7	13	9	19	18	33	0
F	3	2	1	1	1	0	5	13	21	22	5	2	2	7	10	18	0
G	4	5	1	1	0	1	4	14	11	5	3	2	1	0	8	23	0
TOTAL	183	110	88	67	50	96	129	189	210	146	50	45	48	104	136	219	0

JFDs of 10-Meter Wind vs. Delta T

January-June 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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	1	0	2	0	0	2	1	0	0	0	0	0	1	0	0	1	8
3.51- 7.50	29	10	9	19	13	17	16	9	4	2	0	0	1	2	2	5	138
7.51-12.50	33	7	6	15	5	22	27	27	30	10	2	0	1	1	9	27	222
12.51-18.50	2	1	0	1	0	2	12	9	25	8	5	1	5	4	6	15	96
18.51-24.00	0	0	0	0	0	0	0	3	3	7	0	0	0	0	1	4	18
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	65	18	17	35	18	43	56	48	62	27	7	1	8	7	18	52	482

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	1	4	0	0	2	2	1	0	0	1	0	0	1	1	0	14
3.51- 7.50	23	9	7	9	6	9	9	5	8	6	5	3	0	1	5	7	112
7.51-12.50	14	8	13	1	2	9	5	5	16	24	1	0	1	1	10	21	131
12.51-18.50	4	2	0	1	0	0	2	10	4	2	2	1	4	2	6	13	53
18.51-24.00	0	0	0	0	0	0	0	2	1	4	0	0	0	0	2	2	11
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
TOTAL	42	20	24	11	8	20	18	23	30	36	9	4	5	5	24	44	323

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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	1	2	1	1	1	0	0	1	1	1	1	0	0	0	1	0	11
3.51- 7.50	24	7	9	4	2	9	14	7	8	8	3	4	2	2	6	17	126
7.51-12.50	10	11	4	5	2	7	17	8	10	14	1	1	1	3	10	31	143
12.51-18.50	1	0	0	0	0	1	4	4	7	3	5	5	1	8	19	9	67
18.51-24.00	0	0	0	0	0	0	0	0	1	6	0	0	1	1	1	3	13
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	44	20	14	10	5	17	35	20	27	32	10	10	5	14	37	60	360

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	13	10	7	6	6	3	4	9	12	10	9	2	2	1	4	12	110
3.51- 7.50	72	57	22	17	22	42	49	28	21	22	8	10	16	20	38	38	482
7.51-12.50	54	32	13	6	22	16	61	24	32	19	10	2	12	35	114	75	527
12.51-18.50	6	3	5	1	1	7	18	14	29	7	11	9	12	34	43	61	261
18.51-24.00	0	0	0	0	0	0	1	1	5	5	5	12	17	23	7	21	97
>24.00	0	0	0	0	0	0	0	0	0	0	0	5	4	3	0	0	12
TOTAL	145	102	47	30	51	68	133	76	99	63	43	40	63	116	206	207	1489

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	24	10	17	6	4	0	4	23	33	18	6	7	8	12	19	25	216
3.51- 7.50	33	6	7	3	6	19	36	34	46	27	6	6	4	16	37	58	344
7.51-12.50	8	2	0	0	2	0	25	11	20	15	11	6	2	17	35	31	185
12.51-18.50	0	0	0	0	0	0	9	15	6	5	3	2	6	1	9	13	69
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	65	18	24	9	12	19	74	83	105	66	26	21	21	46	100	127	817

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	5	7	3	1	0	0	2	16	31	29	11	3	2	11	13	27	161
3.51- 7.50	3	0	0	0	1	0	2	11	30	20	3	1	4	4	1	7	87
7.51-12.50	0	0	0	0	0	0	2	0	11	8	0	2	5	5	1	2	36
12.51-18.50	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	7	3	1	1	0	6	27	73	57	14	7	11	21	15	36	288

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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	9	14	3	2	1	3	10	24	28	14	9	3	2	0	11	28	161
3.51- 7.50	2	0	0	0	0	0	0	3	8	2	0	0	0	0	2	4	21
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	1	0	1	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	11	14	3	2	1	3	10	27	36	16	10	4	2	1	13	32	186

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																	3
1.01- 3.50	54	44	37	16	12	10	23	74	105	72	37	15	15	25	49	93	681
3.51- 7.50	186	89	54	52	50	96	126	97	125	87	25	24	27	45	91	136	1310
7.51-12.50	127	60	36	27	33	54	137	75	119	90	26	12	22	63	179	187	1247
12.51-18.50	13	6	5	3	1	10	45	52	72	25	26	19	28	50	83	111	549
18.51-24.00	0	0	0	0	0	0	1	6	10	23	5	12	19	24	11	30	141
>24.00	0	0	0	0	0	0	0	0	1	0	0	5	4	3	0	1	14
TOTAL	380	199	132	98	96	170	332	304	432	297	119	87	115	210	413	558	3945

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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

TOTAL NUMBER OF OBSERVATIONS: 4344

TOTAL NUMBER OF VALID OBSERVATIONS: 3945

TOTAL NUMBER OF MISSING OBSERVATIONS: 399

PERCENT DATA RECOVERY FOR THIS PERIOD: 90.8 %

MEAN WIND SPEED FOR THIS PERIOD: 8.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
12.22	8.19	9.13	37.74	20.71	7.30	4.71

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	65	18	17	35	18	43	56	48	62	27	7	1	8	7	18	52	0
B	42	20	24	11	8	20	18	23	30	36	9	4	5	5	24	44	0
C	44	20	14	10	5	17	35	20	27	32	10	10	5	14	37	60	0
D	145	102	47	30	51	68	133	76	99	63	43	40	63	116	206	207	0
E	65	18	24	9	12	19	74	83	105	66	26	21	21	46	100	127	1
F	8	7	3	1	1	0	6	27	73	57	14	7	11	21	15	36	1
G	11	14	3	2	1	3	10	27	36	16	10	4	2	1	13	32	1
TOTAL	380	199	132	98	96	170	332	304	432	297	119	87	115	210	413	558	3

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

January-June 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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	
95	1	1	D	E	E	E	E	F	F	E	E	D	D	D	D	D	D	D	D	E	E	E	E	F	E	E	
95	1	2	E	F	E	F	F	G	F	F	F	F	E	D	D	D	D	D	D	E	E	E	F	F	F	E	E
95	1	3	D	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	E	E	G	G	G	G	G	G
95	1	4	G	G	G	G	E	F	F	F	E	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F	F
95	1	5	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	6	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
95	1	7	E	E	E	E	E	E	E	F	E	E	E	E	D	D	D	D	D	E	F	F	F	F	G	F	F
95	1	8	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	F	G	F	G
95	1	9	G	G	G	G	G	F	F	F	E	E	D	D	D	D	D	D	D	E	F	E	E	E	E	E	E
95	1	10	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	B	B	C	D	D	D
95	1	11	D	D	C	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	C	C	D	D	D	D	E
95	1	12	D	D	B	B	B	B	B	B	D	D	D	D	D	D	D	D	D	E	E	E	F	E	E	E	E
95	1	13	E	E	E	D	E	E	D	D	D	D	C	C	C	D	D	D	D	D	D	D	C	C	B	B	B
95	1	14	B	C	C	D	D	D	D	D	D	D	B	B	B	A	C	D	D	D	D	D	D	D	D	D	D
95	1	15	D	D	D	D	D	D	C	D	D	D	D	A	A	D	D	D	E	E	E	E	E	E	E	E	E
95	1	16	E	D	E	E	D	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
95	1	17	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	G	G	G	G	G	G
95	1	18	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
95	1	19	E	E	D	E	E	E	E	E	E	D	D	C	B	B	A	C	D	D	E	E	E	E	E	E	E
95	1	20	E	E	D	D	D	C	D	D	C	C	C	C	B	C	B	C	D	D	D	D	D	D	D	D	D
95	1	21	D	D	D	D	D	D	D	D	D	D	C	C	A	C	C	D	D	D	E	E	E	E	E	E	E
95	1	22	E	E	E	E	D	D	D	E	D	D	D	C	B	B	C	D	D	D	E	E	E	D	D	D	D
95	1	23	D	D	D	D	D	E	E	D	D	D	D	D	D	C	D	D	D	E	E	F	E	E	D	D	D
95	1	24	D	D	E	E	E	D	D	D	D	D	D	C	C	B	B	D	D	D	F	G	G	G	G	G	G
95	1	25	G	E	E	E	E	E	D	D	D	D	D	C	C	B	B	C	D	D	E	E	E	E	F	F	F
95	1	26	G	F	F	F	F	G	G	E	E	D	D	D	C	C	D	D	D	E	E	E	D	D	D	C	C
95	1	27	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	E	E	E
95	1	28	E	E	E	E	D	A	C	D	D	C	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D
95	1	29	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	E	E	E	E	E	E
95	1	30	E	E	E	D	E	E	E	E	D	D	D	C	C	C	D	C	D	E	F	E	E	E	F	F	F
95	1	31	E	F	E	E	F	F	-	-	-	D	D	D	C	C	D	L	J	D	E	F	F	F	E	E	E
95	2	1	E	E	E	E	E	E	F	F	F	E	D	B	A	C		J	D	F	G	G	G	F	E	F	F
95	2	2	F	G	F	E	E	F	D	D	F	C	D	D	D	D		D	D	D	D	D	C	A	D	D	D
95	2	3	E	D	D	D	A	A	C	B	B	D	D	D	D	D		D	D	D	D	D	D	D	D	D	D
95	2	4	D	E	D	E	D	D	D	D	D	D	D	C	C	B	D	B	D	D	D	D	D	D	D	D	D
95	2	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	D
95	2	6	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F
95	2	7	E	E	E	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E	E	E
95	2	8	E	E	E	E	E	E	E	F	E	D	D	D	D	D	D	D	D	E	E	E	E	E	F	E	E
95	2	9	F	E	E	E	E	F	F	F	E	E	D	D	D	C	D	D	D	D	E	F	F	F	F	F	F
95	2	10	E	E	E	E	E	E	E	D	D	D	C	B	B	B	A	B	D	D	E	E	E	F	F	F	F
95	2	11	E	D	D	D	D	D	D	D	D	B	B	A	A	A	B	B	D	D	E	E	F	E	F	F	F
95	2	12	F	E	E	E	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	13	D	D	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	14	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	B	B	B	A	A	A	A	A	A

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95 2 15	B	B	B	A	A	C	D	D	D	D	D	C	B	A	A	A	C	D	E	E	E	F	F	G
95 2 16	F	F	E	E	E	F	F	G	E	D	C	B	C	C	D	D	D	E	F	G	G	G	G	G
95 2 17	G	F	F	F	F	F	F	F	E	D	C	B	B	C	D	D	D	E	F	F	F	E	E	E
95 2 18	E	E	F	F	E	E	F	F	E	D	C	C	C	B	C	D	D	E	G	G	F	E	E	E
95 2 19	E	E	E	E	E	E	E	E	D	C	A	C	C	C	C	D	D	E	G	G	G	G	F	F
95 2 20	E	E	F	E	E	E	E	E	D	D	B	A	A	A	B	B	D	E	E	E	E	E	E	E
95 2 21	G	G	G	G	G	-	-	-	E	D	B	B	B	B	B	C	D	E	G	F	F	F	F	F
95 2 22	E	F	F	G	G	G	G	G	E	C	C	C	B	B	B	D	D	E	G	F	E	E	E	E
95 2 23	E	E	E	E	E	D	E	E	D	C	A	A	A	A	A	B	D	E	E	E	E	E	E	E
95 2 24	E	F	F	G	G	G	G	F	E	D	C	A	A	A	A	B	D	E	F	F	F	F	F	E
95 2 25	E	E	E	E	E	E	E	F	D	D	B	B	A	B	A	C	D	E	F	F	F	F	E	E
95 2 26	F	G	G	G	G	G	G	F	D	D	B	C	B	C	B	-	-	-	-	-	-	-	-	-
95 2 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	B	B	B	B	C	D	D	D
95 2 28	D	D	D	D	C	D	D	D	D	B	B	A	A	A	A	A	B	D	D	D	D	E	E	E
95 3 1	E	E	E	E	E	D	D	D	C	B	C	A	B	A	A	A	C	D	D	D	D	D	D	D
95 3 2	D	D	D	D	D	D	D	D	D	C	C	C	D	C	C	C	D	D	E	E	E	F	G	F
95 3 3	F	F	F	E	E	F	E	E	D	C	B	A	C	A	A	A	C	D	E	F	E	E	E	E
95 3 4	E	E	E	E	D	D	D	D	D	D	D	D	C	C	D	D	B	A	A	B	B	A	A	A
95 3 5	B	B	B	A	A	B	B	B	D	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D
95 3 6	D	D	D	D	D	D	D	D	C	B	A	A	B	B	A	C	D	C	A	A	B	D	D	D
95 3 7	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E	E
95 3 8	D	D	E	E	D	D	D	C	C	D	C	D	D	C	D	D	D	D	D	D	E	E	E	E
95 3 9	E	E	E	E	E	E	D	D	C	C	B	B	B	C	A	C	D	E	E	E	E	E	E	E
95 3 10	F	F	E	E	E	E	E	E	D	D	D	C	C	B	C	D	D	E	E	F	F	E	E	F
95 3 11	F	F	G	F	F	F	F	E	D	C	B	A	A	A	A	C	D	D	E	E	E	E	E	E
95 3 12	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 3 13	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 3 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 3 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 3 16	G	G	G	G	G	G	G	G	E	B	C	B	C	B	B	C	D	F	G	G	G	G	G	G
95 3 17	G	E	E	E	E	D	E	D	A	A	A	A	A	A	A	B	C	D	E	F	F	F	F	F
95 3 18	E	E	E	E	E	E	E	E	D	D	B	A	A	B	A	C	D	D	D	D	D	E	E	F
95 3 19	F	F	E	E	E	C	C	A	A	A	B	A	A	A	A	A	D	D	E	F	D	D	-	-
95 3 20	-	A	D	D	D	D	D	D	D	D	B	B	A	B	A	C	D	D	E	E	E	F	F	E
95 3 21	E	E	E	E	E	D	D	C	A	A	A	A	B	A	B	D	D	E	E	E	E	D	D	D
95 3 22	D	D	D	D	D	D	D	D	D	D	D	C	A	A	A	C	D	E	E	E	E	D	D	D
95 3 23	C	D	D	C	D	D	D	B	A	A	A	A	A	A	A	A	B	D	E	E	F	F	E	E
95 3 24	E	E	E	E	E	E	E	D	B	A	A	A	A	A	A	A	C	D	D	D	D	D	D	D
95 3 25	D	D	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-
95 3 26	-	A	D	C	B	B	C	C	B	A	A	A	B	B	B	D	D	D	D	D	D	D	D	D
95 3 27	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 3 28	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	D	D	D	D	D	D
95 3 29	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	E	E	E	E	D	D
95 3 30	D	D	D	D	D	D	D	D	D	D	B	B	B	B	B	C	D	D	E	E	E	E	E	E
95 3 31	E	E	E	E	E	E	E	D	C	B	B	A	A	B	B	C	D	D	E	E	E	E	E	E

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	4	1	E	E	E	E	E	E	E	D	D	B	A	A	A	A	A	B	C	D	E	G	G	G	G	G
95	4	2	G	G	G	G	G	G	F	E	D	P	A	A	A	A	A	A	C	D	E	F	E	E	E	E
95	4	3	D	D	D	C	D	E	F	E	D	D	B	B	B	A	C	D	D	D	D	D	D	D	D	D
95	4	4	D	D	D	D	D	D	D	D	B	B	B	C	B	B	A	A	C	D	D	E	E	E	E	E
95	4	5	E	E	E	D	D	D	D	D	A	A	A	A	A	A	A	B	D	E	E	E	E	E	D	D
95	4	6	F	G	G	G	G	F	F	E	D	D	C	A	A	A	A	B	B	D	C	E	E	E	F	F
95	4	7	F	E	E	E	E	E	E	D	C	C	A	A	B	B	A	A	D	D	E	E	E	E	D	D
95	4	8	E	D	D	D	D	D	D	A	A	A	A	A	A	A	A	B	B	D	D	D	D	D	D	D
95	4	9	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	10	-	A	B	D	A	B	B	A	-	-	-	-	-	-	-	A	A	-	-	-	-	-	-	-
95	4	11	-	-	-	-	-	-	-	-	-	-	-	B	C	D	D	D	D	D	D	D	D	D	D	D
95	4	12	D	C	C	D	D	D	B	A	C	D	D	D	D	D	D	D	D	D	D	E	E	E	E	F
95	4	13	F	F	F	G	F	F	F	E	D	B	B	B	B	C	B	C	D	E	E	E	F	F	F	F
95	4	14	F	E	E	E	E	E	E	E	C	A	A	A	A	A	A	B	B	D	D	E	E	E	E	E
95	4	15	E	E	E	E	E	E	D	D	C	B	B	A	A	A	A	B	B	D	E	F	G	G	G	E
95	4	16	E	E	E	E	E	D	D	D	C	C	C	C	D	D	D	D	B	B	D	D	D	D	D	D
95	4	17	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	B	A	-	-	-	-	-	-
95	4	18	-	-	-	-	-	-	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	4	19	D	D	D	D	D	D	C	A	B	A	A	A	A	A	A	B	D	D	D	E	E	D	D	D
95	4	20	D	D	A	-	-	-	-	-	-	-	A	D	D	D	D	D	D	D	D	D	D	D	D	D
95	4	21	D	D	D	D	D	D	D	D	A	C	A	B	A	C	D	D	D	E	F	G	G	G	G	G
95	4	22	E	E	F	F	G	F	F	D	A	A	A	A	A	A	B	B	D	D	E	E	E	E	E	E
95	4	23	E	E	E	E	E	E	E	D	C	B	B	B	B	C	B	B	C	D	D	F	G	G	G	G
95	4	24	F	F	E	E	E	D	D	C	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	C	D	E	E	C	A	A
95	4	26	A	D	E	E	E	D	D	-	-	-	-	-	-	-	-	-	-	-	D	D	E	E	E	E
95	4	27	E	E	E	E	E	E	D	D	D	C	C	C	C	D	D	D	D	D	D	F	F	F	F	F
95	4	28	F	E	E	E	F	F	E	D	C	C	B	B	A	A	A	B	C	D	D	E	E	E	E	D
95	4	29	D	D	D	D	D	D	C	B	C	C	C	A	A	B	C	C	B	B	B	A	A	A	A	B
95	4	30	B	B	A	B	B	B	B	B	C	C	C	D	D	D	D	D	D	B	-	-	-	-	-	A
95	5	1	A	A	A	D	D	D	D	D	C	C	C	C	C	B	C	D	D	D	E	E	F	F	G	G
95	5	2	G	G	G	G	G	G	F	D	C	A	A	C	B	A	A	B	C	D	D	E	D	E	D	D
95	5	3	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	4	-	-	-	-	-	-	-	-	-	-	A	B	B	D	D	D	C	D	D	D	E	E	E	E
95	5	5	F	E	E	E	F	G	E	C	B	C	D	C	C	B	C	C	C	D	D	E	E	E	E	E
95	5	6	E	E	E	E	E	D	D	D	C	B	D	D	C	B	B	D	D	D	D	D	D	D	C	B
95	5	7	A	A	A	A	A	A	A	A	A	C	B	C	B	-	-	-	-	-	-	-	-	-	-	-
95	5	8	-	-	-	-	-	-	-	-	A	A	A	C	D	D	D	A	D	B	D	D	A	D	D	E
95	5	9	E	E	D	D	D	B	D	C	B	D	B	B	D	D	C	D	D	D	D	D	D	D	A	-
95	5	10	-	-	-	-	-	-	-	-	A	A	A	B	C	C	D	D	D	D	D	D	D	D	D	D
95	5	11	D	D	C	A	A	A	A	B	C	B	A	C	B	C	C	C	C	D	D	E	E	F	F	E
95	5	12	F	E	E	E	E	E	D	D	D	C	-	-	-	-	-	-	-	A	C	C	C	-	-	-
95	5	13	-	-	-	-	-	-	A	A	B	A	C	C	C	D	D	D	D	D	E	E	E	E	D	D
95	5	14	D	D	D	D	D	D	C	C	D	C	C	B	B	A	B	C	D	D	F	F	G	G	G	G
95	5	15	G	G	G	G	G	F	F	E	B	A	A	A	A	A	A	C	D	D	E	F	F	E	E	E

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95 5 16	E	E	E	E	F	E	E	D	D	C	B	D	D	C	D	D	D	D	D	D	D	D	D	D
95 5 17	D	D	D	D	C	B	D	D	D	D	B	A	B	B	D	D	D	D	D	D	D	D	D	D
95 5 18	A	A	C	D	D	D	D	C	D	C	D	C	B	B	B	C	D	D	F	G	F	F	F	F
95 5 19	F	F	F	F	F	F	F	D	C	C	C	B	C	C	B	B	C	D	D	F	F	F	F	F
95 5 20	E	E	E	D	D	D	D	D	C	B	B	C	D	D	D	D	D	D	D	E	E	E	E	E
95 5 21	E	E	E	F	F	F	E	D	C	B	A	A	A	A	A	A	B	D	D	E	E	E	E	E
95 5 22	E	E	E	D	D	D	B	B	A	A	A	A	A	A	A	A	A	D	D	D	-	-	-	-
95 5 23	-	-	-	-	-	-	-	-	-	-	A	B	B	C	C	D	D	D	D	D	D	D	D	D
95 5 24	D	D	D	D	D	D	D	D	C	B	A	A	A	B	B	B	D	D	D	E	E	D	D	E
95 5 25	E	F	F	E	E	E	E	D	C	B	B	B	A	A	A	A	B	C	D	D	E	E	F	E
95 5 26	E	E	D	D	D	C	C	B	B	C	B	A	-	-	-	A	A	A	A	A	A	A	A	-
95 5 27	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	B	D	D	D	D	E	E	D
95 5 28	D	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
95 5 29	E	E	E	E	E	E	D	D	C	A	A	A	A	B	B	B	D	D	D	D	F	G	G	G
95 5 30	G	G	G	G	F	G	F	D	A	A	A	A	A	A	A	A	A	B	D	D	E	E	E	E
95 5 31	E	E	E	E	E	E	D	D	C	B	A	A	A	A	C	-	-	-	-	-	-	-	-	-
95 6 1	-	-	-	-	-	-	-	-	-	A	A	C	B	C	C	D	D	C	D	D	D	E	E	D
95 6 2	D	D	A	D	D	A	-	-	-	-	A	A	A	A	B	B	C	D	D	E	F	F	E	E
95 6 3	E	E	D	C	B	C	C	A	A	A	A	A	A	A	B	C	C	D	C	A	A	C	C	B
95 6 4	C	D	D	D	D	D	D	-	-	-	-	-	-	A	A	A	A	C	D	E	E	E	E	D
95 6 5	D	D	B	A	A	C	B	-	-	-	-	A	A	A	A	A	A	B	D	D	E	E	E	D
95 6 6	-	-	-	-	-	B	A	A	A	A	A	A	A	A	A	A	B	C	D	E	E	E	E	E
95 6 7	D	D	D	D	-	-	-	-	-	A	A	A	A	A	B	C	C	D	D	D	E	D	D	B
95 6 8	B	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	A	A	A	A	A	A	A
95 6 9	A	A	-	-	-	-	-	-	-	-	A	A	A	A	A	A	B	A	A	D	D	B	-	D
95 6 10	D	D	D	D	D	D	D	D	C	C	C	C	C	C	C	C	C	D	D	D	D	D	D	D
95 6 11	D	D	D	D	D	D	C	B	A	A	A	B	B	A	C	C	C	D	D	F	G	G	F	F
95 6 12	F	F	G	G	G	G	E	D	C	C	B	A	A	A	A	B	C	D	D	F	G	G	G	G
95 6 13	G	F	G	F	F	F	E	D	D	C	C	B	B	A	A	A	A	B	B	-	-	E	E	E
95 6 14	E	E	E	E	E	D	D	C	A	-	-	-	-	-	-	-	A	C	D	E	E	D	D	D
95 6 15	D	D	D	D	D	D	C	A	-	-	-	-	-	-	-	B	B	D	D	D	D	D	D	D
95 6 16	D	D	D	D	D	D	D	C	B	A	A	A	A	A	A	A	C	C	D	D	D	E	D	D
95 6 17	E	E	E	E	E	D	C	C	B	B	B	B	A	B	A	A	B	C	D	E	E	E	E	E
95 6 18	E	E	E	E	E	E	D	C	C	B	B	B	B	A	A	A	B	D	E	E	F	E	E	E
95 6 19	E	E	E	E	F	F	E	D	C	C	A	A	B	B	A	A	B	D	D	E	F	F	E	E
95 6 20	E	E	F	F	E	E	D	C	B	C	B	B	A	A	-	-	A	D	E	G	G	F	G	G
95 6 21	G	G	G	G	G	G	F	E	D	B	A	A	A	A	A	A	A	B	D	E	G	G	F	G
95 6 22	G	F	E	E	F	E	B	A	A	A	-	-	-	-	-	-	A	C	D	E	E	F	E	E
95 6 23	E	E	E	F	F	D	D	C	A	A	A	A	A	B	A	E	E	F	F	G	G	F	F	F
95 6 24	E	F	E	E	E	D	D	D	C	D	E	D	C	C	B	D	D	D	D	D	D	D	D	E
95 6 25	E	E	D	D	D	A	B	D	C	-	-	-	-	-	-	B	D	C	-	-	-	-	-	-
95 6 26	-	A	A	A	B	A	-	-	-	-	A	B	C	B	C	C	C	D	D	D	D	D	D	D
95 6 27	D	D	D	D	D	D	C	C	C	B	A	B	C	B	A	C	C	D	D	E	F	F	F	E
95 6 28	E	E	E	A	C	D	C	C	A	A	B	B	B	A	A	A	C	D	D	D	E	E	E	E
95 6 29	E	E	D	D	D	D	C	B	C	A	A	A	B	A	B	C	D	D	E	E	E	E	E	E

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95 6 30	E	E	E	E	E	D	D	C	B	B	A	A	A	A	A	A	A	C	D	D	F	F	G	G

JFDs of 10-Meter Wind vs. Delta T

July-September 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

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	2	2	0	1	0	0	1	1	3	0	0	1	0	1	1	15
3.51- 7.50	9	5	3	4	7	7	11	5	1	3	2	3	2	4	1	8	75
7.51-12.50	7	0	1	0	5	6	5	15	36	7	2	0	2	2	1	3	92
12.51-18.50	0	0	0	0	0	0	0	4	5	0	2	2	0	0	0	0	13
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	18	7	6	4	13	13	16	25	43	13	6	5	5	6	3	12	195

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	1	0	0	0	0	0	2	0	0	0	1	0	1	0	1	8
3.51- 7.50	4	3	1	0	0	0	2	7	3	3	3	3	3	2	1	4	39
7.51-12.50	3	0	1	0	1	0	4	3	9	8	1	1	0	1	0	5	37
12.51-18.50	0	0	0	0	0	0	1	1	0	1	0	1	1	2	0	2	9
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	9	4	2	0	1	0	7	13	12	12	4	6	4	6	1	12	93

PROGRAM: JFD VERSION: 5P
 NPPT-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

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	1	0	2	0	0	2	1	0	1	0	0	0	4	11
3.51- 7.50	7	2	2	4	0	2	4	5	4	6	5	2	0	1	3	2	50
7.51-12.50	4	1	0	1	1	1	1	3	6	4	0	0	0	3	0	1	26
12.51-18.50	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	5
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12	3	2	6	1	5	5	10	12	11	5	3	1	5	4	8	93

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	10	8	0	1	0	0	0	7	2	2	1	1	0	0	0	2	34
3.51- 7.50	32	18	6	8	7	13	22	36	16	6	4	5	6	4	2	18	203
7.51-12.50	9	0	0	0	1	2	13	14	10	8	1	4	0	2	2	11	77
12.51-18.50	0	0	0	0	0	0	0	6	5	2	2	0	0	5	0	2	22
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	51	26	6	9	8	15	35	63	34	18	8	10	6	11	4	33	337

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

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	16	7	9	3	3	2	7	17	11	12	3	3	0	3	4	16	116
3.51- 7.50	24	12	2	3	6	8	37	47	44	17	4	3	0	1	5	28	241
7.51-12.50	3	1	0	0	0	0	20	11	18	5	2	4	5	0	3	10	82
12.51-18.50	0	0	0	0	0	0	4	1	6	1	0	0	0	0	0	11	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	43	20	11	6	9	10	68	76	79	35	9	10	5	4	12	65	462

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	10	5	1	3	1	2	3	25	17	19	6	5	3	5	12	24	141
3.51- 7.50	1	4	0	3	2	3	6	13	24	10	4	2	0	3	3	1	79
7.51-12.50	0	0	0	0	0	0	8	5	15	5	1	2	1	0	2	0	39
12.51-18.50	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	9	1	6	3	5	17	43	57	34	11	9	5	8	17	25	261

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

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	6	2	1	0	1	0	0	6	6	8	2	0	5	0	3	22	62
3.51- 7.50	1	1	0	0	0	0	2	3	2	4	0	1	0	0	1	0	15
7.51-12.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
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	7	3	1	0	1	0	2	9	9	12	2	1	5	0	4	22	78

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	46	25	13	8	6	6	10	58	39	45	12	11	9	9	20	70	387
3.51- 7.50	78	45	14	22	22	33	84	117	94	49	22	19	11	15	16	61	702
7.51-12.50	26	2	2	1	8	9	51	51	95	37	7	11	8	8	8	30	354
12.51-18.50	1	0	0	0	0	0	5	13	17	4	4	3	2	8		16	74
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	151	72	29	31	36	48	150	239	246	135	45	44	31	40	45	177	1519

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

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: 1519

TOTAL NUMBER OF MISSING OBSERVATIONS: 689

PERCENT DATA RECOVERY FOR THIS PERIOD: 68.8 %

MEAN WIND SPEED FOR THIS PERIOD: 6.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
12.84	6.12	6.12	22.19	30.41	17.18	5.13

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	6	4	13	13	16	25	43	13	6	5	5	6	3	12	0
B	9	4	2	0	1	0	7	13	12	12	4	6	4	6	1	12	0
C	12	3	2	6	1	5	5	10	12	11	5	3	1	5	4	8	0
D	51	26	6	9	8	15	35	63	34	18	8	10	6	11	4	33	0
E	43	20	11	6	9	10	68	76	79	35	9	10	5	4	12	65	0
F	11	9	1	6	3	5	17	43	57	34	11	9	5	6	17	25	0
G	7	3	1	0	1	0	2	9	9	12	2	1	5	0	4	22	0
TOTAL	151	72	29	51	36	48	150	239	246	135	45	44	31	40	45	177	0

JFDs of 10-Meter Wind vs. Delta T

October-December 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: MPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

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	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	4
3.51- 7.50	3	3	2	0	3	4	6	0	1	5	1	0	2	0	0	0	30
7.51-12.50	1	0	0	0	0	0	6	4	4	7	1	4	9	3	0	0	39
12.51-18.50	0	0	0	0	0	2	3	2	6	2	1	0	0	3	7	1	27
18.51-24.00	0	0	0	0	0	0	2	1	1	3	0	0	0	1	1	2	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	3	4	0	4	6	17	7	12	17	3	4	11	7	8	3	111

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	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4
3.51- 7.50	0	1	0	0	1	5	4	1	2	5	1	2	4	1	1	2	30
7.51-12.50	0	0	0	0	0	1	8	2	3	4	0	0	3	5	0	0	26
12.51-18.50	1	0	0	0	0	3	0	2	2	1	0	0	1	2	3	3	18
18.51-24.00	0	0	0	0	0	0	1	0	1	1	0	0	0	0	5	2	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	2	0	0	1	9	13	5	8	11	1	2	8	8	10	9	88

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

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	0	1	0	1
3.51- 7.50	5	2	2	2	0	4	7	1	4	7	1	1	2	4	2	1	45
7.51-12.50	1	0	0	0	1	2	5	5	9	3	1	0	2	3	3	4	39
12.51-18.50	0	0	0	0	0	0	0	3	2	2	0	0	0	4	5	5	21
18.51-24.00	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	3	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	6	2	2	2	1	6	12	9	15	14	2	1	4	11	15	13	115

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	5	4	1	2	3	2	1	7	3	5	3	5	2	2	5	7	57
3.51- 7.50	21	21	13	15	14	18	30	10	8	11	10	4	13	7	14	30	239
7.51-12.50	14	1	1	5	10	6	17	26	8	2	5	5	9	27	27	24	187
12.51-18.50	16	2	0	0	0	1	5	8	8	4	0	0	5	19	44	28	140
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	1	1	16	11	6	36
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	3
TOTAL	56	28	15	22	27	27	53	51	27	23	18	15	31	71	101	97	662

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

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	2	3	2	3	3	8	11	9	8	3	4	3	6	11	11	96
3.51- 7.50	24	5	4	4	9	8	20	47	30	12	6	8	10	13	16	5	221
7.51-12.50	2	0	0	0	2	5	12	40	25	4	5	5	17	37	17	7	178
12.51-18.50	0	0	0	0	0	1	2	2	12	1	3	0	4	13	10	2	50
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	35	7	7	6	14	17	42	100	76	25	17	17	34	69	56	27	549

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	5	14	3	3	2	2	7	20	25	6	5	6	1	3	5	13	120
3.51- 7.50	8	0	0	0	0	1	7	17	25	5	3	4	2	2	5	3	82
7.51-12.50	0	0	0	0	0	0	2	2	3	1	0	2	3	0	0	0	13
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	13	14	3	3	2	3	16	39	53	12	8	12	6	5	10	16	215

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

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	11	4	2	2	3	2	12	18	19	9	5	1	0	2	4	8	102
3.51- 7.50	2	1	0	0	0	0	0	6	3	0	0	0	0	1	1	2	16
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	13	5	2	2	3	2	12	24	22	9	5	1	0	3	5	10	119

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	31	25	11	9	12	9	28	56	56	28	16	16	6	13	27	41	384
3.51- 7.50	63	33	21	21	27	40	74	82	73	45	22	19	33	28	39	43	663
7.51-12.50	18	1	1	5	13	14	50	79	52	21	12	16	43	75	47	35	482
12.51-18.50	17	2	0	0	0	7	10	17	30	10	4	0	10	41	69	39	256
18.51-24.00	0	0	0	0	0	0	3	1	2	7	0	1	1	17	22	15	69
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	4
TOTAL	129	61	33	35	52	70	165	235	213	111	54	52	94	174	205	175	1859

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

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: 1859

TOTAL NUMBER OF MISSING OBSERVATIONS: 349

PERCENT DATA RECOVERY FOR THIS PERIOD: 84.2 %

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
5.97	4.73	6.19	35.61	29.53	11.57	6.40

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	5	3	4	0	4	6	17	7	12	17	3	4	11	7	8	3	0
B	1	2	0	0	1	9	13	5	8	11	1	2	8	8	10	9	0
C	6	2	2	2	1	6	12	9	15	14	2	1	4	11	15	13	0
D	56	28	15	22	27	27	53	51	27	23	18	15	31	71	101	97	0
E	35	7	7	6	14	17	42	100	76	25	17	17	34	69	56	27	0
F	13	14	3	3	2	3	16	39	53	12	8	12	6	5	10	16	0
G	13	5	2	2	3	2	12	24	22	9	5	1	0	3	5	10	1
TOTAL	129	61	33	35	52	70	165	235	213	111	54	52	94	174	205	175	1

JFDs of 10-Meter Wind vs. Delta T

July-December 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

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	3	2	4	0	2	0	0	1	1	3	0	0	1	0	1	1	19
3.51- 7.50	12	8	5	4	10	11	17	5	2	8	3	3	4	4	1	8	105
7.51-12.50	8	0	1	0	5	6	11	19	40	14	3	4	11	5	1	3	131
12.51-18.50	0	0	0	0	0	2	3	6	11	2	3	2	0	3	7	1	40
18.51-24.00	0	0	0	0	0	0	2	1	1	3	0	0	0	1	1	2	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	23	10	10	4	17	19	33	32	55	30	9	9	16	13	11	15	306

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	2	0	0	0	0	0	2	0	0	0	1	0	1	1	3	12
3.51- 7.50	4	4	1	0	1	5	6	8	5	8	4	5	7	3	2	6	69
7.51-12.50	3	0	1	0	1	1	12	5	12	12	1	1	3	6	0	5	63
12.51-18.50	1	0	0	0	0	3	1	3	2	2	0	1	2	4	3	5	27
18.51-24.00	0	0	0	0	0	0	1	0	1	1	0	0	0	0	5	2	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	6	2	0	2	9	20	18	20	23	5	8	12	14	11	21	181

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

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	1	0	2	0	0	2	1	0	1	0	0	1	4	12
3.51- 7.50	12	4	4	6	0	6	11	7	8	13	6	3	2	5	5	3	95
7.51-12.50	5	1	0	1	2	3	6	8	15	7	1	0	2	6	3	5	65
12.51-18.50	1	0	0	0	0	0	0	4	2	2	0	0	0	5	6	6	26
18.51-24.00	0	0	0	0	0	0	0	0	0	2	0	0	1	0	3	3	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	18	5	4	8	2	11	17	19	27	25	7	4	5	16	19	21	208

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	15	12	1	3	3	2	1	14	5	7	4	6	2	2	5	9	91
3.51- 7.50	53	39	19	23	21	31	52	46	24	17	14	9	19	11	16	48	442
7.51-12.50	23	1	1	5	11	8	30	40	18	10	6	9	9	29	29	35	264
12.51-18.50	16	2	0	0	0	1	5	14	13	6	2	0	5	24	44	30	162
18.51-24.00	0	0	0	0	0	0	0	0	1	1	0	1	1	16	11	6	37
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	3
TOTAL	107	54	21	31	35	42	88	114	61	41	26	25	37	82	105	130	999

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

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	25	9	12	5	6	5	15	28	26	20	6	7	3	9	15	27	212
3.51- 7.50	48	17	6	7	15	16	57	94	74	29	10	11	10	14	21	33	462
7.51-12.50	5	1	0	0	2	5	32	51	43	9	7	9	22	37	20	17	260
12.51-18.50	0	0	0	0	0	1	6	3	18	2	3	0	4	13	10	13	73
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	78	27	18	12	23	27	110	176	155	60	26	27	39	73	68	92	1011

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	15	19	4	6	3	4	10	45	42	25	11	11	4	8	17	37	261
3.51- 7.50	9	4	0	3	2	4	13	30	49	15	7	6	2	5	8	4	161
7.51-12.50	0	0	0	0	0	0	10	7	18	6	1	4	4	0	2	0	52
12.51-18.50	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	24	23	4	9	5	8	33	82	110	46	19	21	11	13	27	41	476

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

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	17	6	3	2	4	2	12	24	25	17	7	1	5	2	7	30	164
3.51- 7.50	3	2	0	0	0	0	2	9	5	4	0	1	0	1	2	2	31
7.51-12.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
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	20	8	3	2	4	2	14	33	31	21	7	2	5	3	9	32	197

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	77	50	24	17	18	15	38	114	95	73	28	27	15	22	47	111	771
3.51- 7.50	141	78	35	43	49	73	158	199	167	94	44	38	44	43	55	104	1365
7.51-12.50	44	3	3	6	21	23	101	130	147	58	19	27	51	83	55	65	836
12.51-18.50	18	2	0	0	0	7	15	30	47	14	8	3	12	49	70	55	330
18.51-24.00	0	0	0	0	0	0	3	1	3	7	0	1	2	17	22	15	71
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	4
TOTAL	280	133	62	66	88	118	315	474	459	246	99	96	125	214	250	352	3378

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

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: 3378

TOTAL NUMBER OF MISSING OBSERVATIONS: 1038

PERCENT DATA RECOVERY FOR THIS PERIOD: 76.5 %

MEAN WIND SPEED FOR THIS PERIOD: 7.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH PUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
9.06	5.36	6.16	29.57	29.93	14.09	5.83

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	23	10	10	4	17	19	33	32	55	30	9	9	16	13	11	15	0
B	10	6	2	0	2	9	20	18	20	23	5	8	12	14	11	21	0
C	18	5	4	8	2	11	17	19	27	25	7	4	5	16	19	21	0
D	107	54	21	31	35	42	88	114	61	41	26	25	37	82	105	130	0
E	78	27	18	12	23	27	110	176	155	60	26	27	39	73	68	92	0
F	24	23	4	9	5	8	33	82	110	46	19	21	11	13	27	41	0
G	20	8	3	2	4	2	14	33	31	21	7	2	5	3	9	32	1
TOTAL	280	133	62	66	88	118	315	474	459	246	99	96	125	214	250	352	1

JFDs of 10-Meter Wind vs. Delta T

January-December 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

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	4	2	6	0	2	2	1	1	1	3	0	0	2	0	1	2	27
3.51- 7.50	41	18	14	23	23	28	33	14	6	10	3	3	5	6	3	13	243
7.51-12.50	41	7	7	15	10	28	38	46	70	24	5	4	12	6	10	30	353
12.51-18.50	2	1	0	1	0	4	15	15	36	10	8	3	5	7	13	16	136
18.51-24.00	0	0	0	0	0	0	2	4	4	10	0	0	0	1	2	6	29
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	88	28	27	39	35	62	89	80	117	57	16	10	24	20	29	67	788

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	3	3	4	0	0	2	2	3	0	0	1	1	0	2	2	3	26
3.51- 7.50	27	13	8	9	7	14	15	13	13	14	9	8	7	4	7	13	181
7.51-12.50	17	8	14	1	3	10	17	10	28	36	2	1	4	7	10	26	194
12.51-18.50	5	2	0	1	0	3	3	13	6	4	2	2	6	6	9	18	80
18.51-24.00	0	0	0	0	0	0	1	2	2	5	0	0	0	0	7	4	21
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
TOTAL	52	26	26	11	10	29	38	41	50	59	14	12	17	19	35	65	504

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

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	1	2	1	2	1	2	0	1	3	2	1	1	0	0	2	4	23
3.51- 7.50	36	11	13	10	2	15	25	14	16	21	9	7	4	7	11	20	221
7.51-12.50	23	12	4	6	4	10	23	16	25	21	2	1	3	9	13	36	208
12.51-18.50	2	0	0	0	0	1	4	8	9	5	5	5	1	13	25	15	93
18.51-24.00	0	0	0	0	0	0	0	0	1	8	0	0	2	1	4	6	22
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	62	25	18	18	7	28	52	39	54	57	17	14	10	30	56	81	568

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	28	22	8	9	9	5	5	23	17	17	13	8	4	3	9	21	201
3.51- 7.50	125	96	41	40	43	73	101	74	45	39	22	19	35	31	54	86	924
7.51-12.50	77	33	14	11	33	24	91	64	50	29	16	11	21	64	143	110	791
12.51-18.50	22	5	5	1	1	8	23	28	42	13	13	9	17	58	87	91	423
18.51-24.00	0	0	0	0	0	0	1	1	6	6	5	13	18	39	18	27	134
>24.00	0	0	0	0	0	0	0	0	0	0	0	5	5	3	0	2	15
TOTAL	252	156	68	61	86	110	221	190	160	104	69	65	100	198	311	337	2488

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	49	19	29	11	10	5	19	51	53	38	12	14	11	21	34	52	428
3.51- 7.50	81	23	13	10	21	35	93	128	120	56	16	17	14	30	58	91	806
7.51-12.50	13	3	0	0	4	5	57	62	63	24	18	15	24	54	55	48	445
12.51-18.50	0	0	0	0	0	1	15	18	24	7	6	2	10	14	19	26	142
18.51-24.00	0	0	0	0	0	0	0	6	0	1	0	0	1	0	2	2	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	143	45	42	21	35	46	184	259	260	126	52	48	60	119	168	219	1828

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	20	26	7	7	3	4	12	61	73	54	22	14	6	19	30	64	422
3.51- 7.50	12	4	0	3	3	4	15	41	79	35	10	7	6	9	9	11	248
7.51-12.50	0	0	0	0	0	0	12	7	29	14	1	6	9	5	3	2	88
12.51-18.50	0	0	0	0	0	0	0	0	2	0	0	1	1	1	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	32	30	7	10	6	8	39	109	183	103	33	28	22	34	42	77	764

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

STABILITY CLASS G

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	26	20	6	4	5	5	22	48	53	31	16	4	7	2	18	58	325
3.51- 7.50	5	2	0	0	0	0	2	12	13	6	0	1	0	1	4	6	52
7.51-12.50	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	4
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	31	22	6	4	5	5	24	60	67	37	17	6	7	4	22	64	383

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	4
1.01- 3.50	131	94	61	33	30	25	61	188	200	145	65	42	30	47	96	204	1452
3.51- 7.50	327	167	89	95	99	169	284	296	292	181	69	62	71	88	146	240	2675
7.51-12.50	171	63	39	33	54	77	238	205	266	148	45	39	73	146	234	252	2083
12.51-18.50	31	8	5	3	1	17	60	82	119	39	34	22	40	99	153	166	879
18.51-24.00	0	0	0	0	0	0	4	7	13	30	5	13	21	41	33	45	212
>24.00	0	0	0	0	0	0	0	0	1	0	0	5	5	3	1	3	18
TOTAL	660	332	194	164	184	288	647	778	891	543	218	183	240	424	663	910	7323

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

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

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 7323

TOTAL NUMBER OF MISSING OBSERVATIONS: 1437

PERCENT DATA RECOVERY FOR THIS PERIOD: 83.6 %

MEAN WIND SPEED FOR THIS PERIOD: 7.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
10.76	6.88	7.76	33.98	24.96	10.43	5.23

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	88	28	27	39	35	62	89	80	117	57	16	10	24	20	29	67	0
B	52	26	26	11	10	29	38	41	50	59	14	12	17	19	35	65	0
C	62	25	18	18	7	28	52	39	54	57	17	14	10	30	56	81	0
D	252	156	68	61	86	110	221	190	160	104	69	65	100	198	311	337	0
E	143	45	42	21	35	46	184	259	260	126	52	48	60	119	168	219	1
F	32	30	7	10	6	8	39	109	183	103	33	28	22	34	42	77	1
G	31	22	6	4	5	5	24	60	67	37	17	6	7	4	22	64	2
TOTAL	660	332	194	164	184	288	647	778	891	543	218	183	240	424	663	910	4

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

July-December 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

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
95	7	1	G	G	G	F	F	F	E	D	A	A	-	-	-	-	-	B	A	B	D	E	F	G	F	F
95	7	2	F	F	F	F	E	E	E	A	A	A	A	-	-	-	-	A	A	C	C	D	D	D	D	D
95	7	3	D	D	D	D	D	C	B	A	A	A	A	B	-	-	-	A	A	B	D	D	D	D	D	D
95	7	4	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	C	A	A	D	A	D	D
95	7	5	A	D	D	E	D	D	C	B	A	B	B	B	C	C	C	D	D	D	D	E	G	G	G	G
95	7	6	G	F	F	E	E	E	E	D	A	A	B	A	C	B	C	C	D	D	D	E	G	G	G	F
95	7	7	F	E	F	E	F	F	D	B	A	A	A	A	D	A	-	-	A	A	C	D	D	D	D	D
95	7	8	D	D	D	D	D	D	D	A	A	A	A	A	A	-	-	A	C	D	D	E	F	G	G	G
95	7	9	G	G	E	E	E	D	D	B	A	A	A	A	A	A	A	A	C	D	E	F	G	G	G	G
95	7	10	G	F	E	E	E	E	E	D	B	B	B	B	A	B	B	B	C	C	D	E	E	E	E	E
95	7	11	E	E	E	E	E	E	D	B	B	B	B	A	-	-	-	-	A	D	E	E	E	E	E	E
95	7	12	F	F	F	F	F	E	D	C	C	B	A	B	B	B	A	A	A	C	D	E	E	E	E	F
95	7	13	E	E	E	E	E	E	D	D	C	C	B	C	-	-	-	-	B	A	D	E	E	E	F	E
95	7	14	E	E	E	E	E	E	D	C	C	A	A	A	A	A	A	A	A	A	D	E	E	E	E	E
95	7	15	E	E	E	E	E	E	D	C	A	A	A	A	A	B	D	E	E	-	-	-	-	-	-	-
95	7	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	18	-	-	-	-	-	-	-	-	-	A	A	A	A	B	A	A	D	D	E	E	F	F	F	F
95	7	19	F	E	F	F	F	F	E	D	D	D	D	B	A	D	D	E	-	-	-	-	-	-	-	-
95	7	20	-	-	-	-	D	D	C	B	B	B	B	B	B	B	B	B	D	D	D	E	F	G	G	G
95	7	21	G	F	F	E	E	F	E	D	B	A	A	A	A	A	C	C	D	D	E	E	E	E	E	E
95	7	22	E	E	E	E	F	F	E	E	D	D	C	D	D	D	D	D	D	D	E	E	E	E	E	E
95	7	23	E	D	D	D	D	C	B	B	C	A	A	D	C	A	A	A	C	D	E	F	G	F	F	F
95	7	24	F	F	F	F	F	F	F	D	C	D	B	-	-	-	-	-	-	-	-	-	-	-	-	F
95	7	25	E	F	E	E	F	F	F	G	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	27	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	F	G	G	G	-	-	-
95	7	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	29	-	-	-	-	-	-	-	-	-	G	F	F	F	F	F	F	F	F	F	G	G	G	G	G
95	7	30	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	B	C	D	D	D
95	8	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
95	8	2	E	E	D	D	D	D	D	D	D	D	D	C	D	D	C	D	D	D	D	E	E	E	D	D
95	8	3	D	D	D	D	D	D	D	C	D	D	A	B	B	C	A	B	C	D	D	D	E	E	D	D
95	8	4	E	D	E	D	A	C	C	D	D	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	5	-	-	-	-	-	-	-	-	-	-	F	F	F	F	E	E	E	F	F	G	G	F	F	F
95	8	6	F	F	F	F	F	F	F	F	F	E	E	E	-	-	-	-	-	-	-	-	F	F	F	F
95	8	7	F	F	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F	F	F	F	F	F
95	8	8	F	F	F	F	F	F	F	F	E	E	E	E	E	E	-	-	-	-	-	-	F	F	F	F
95	8	9	F	F	F	F	F	F	F	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G	F	F	F	F
95	8	13	F	F	F	F	F	-	-	-	-	-	-	-	-	-	E	E	E	E	E	E	E	E	E	E
95	8	14	E	E	E	D	-	-	-	-	-	-	-	A	A	B	A	D	D	C	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

			HOURLY STABILITIES																							
			HOURS																							
YR	MM	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
95	8	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	E	D	D
95	8	17	D	D	D	E	E	E	D	B	A	A	A	-	-	-	-	A	A	B	D	E	E	E	E	E
95	8	18	E	E	E	E	E	E	D	B	A	A	A	-	-	-	A	A	A	C	D	E	E	E	E	E
95	8	19	E	E	E	D	D	D	D	D	C	C	A	C	D	C	D	D	D	D	E	L	E	E	E	E
95	8	20	F	F	F	E	E	E	E	D	A	A	B	A	A	A	A	A	C	D	E	F	G	G	G	G
95	8	21	G	F	F	F	E	E	E	E	C	B	C	B	C	D	A	A	A	C	D	F	F	F	F	F
95	8	22	E	E	E	E	E	E	E	C	B	A	A	B	D	A	B	A	B	D	E	E	E	E	E	E
95	8	23	E	E	E	E	E	E	E	E	C	A	A	A	A	A	B	A	B	C	E	E	E	E	E	E
95	8	24	F	F	F	F	F	E	E	D	C	B	-	-	-	-	-	-	-	B	E	E	E	E	E	E
95	8	25	E	E	E	F	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	F	F	F	G
95	8	26	F	F	F	F	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	E	E	E	E	F	F	G
95	8	31	F	E	D	D	D	D	-	D	D	D	C	A	A	A	C	D	D	D	E	E	E	D	D	-
95	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	9	2	-	-	-	-	-	-	-	-	-	-	-	-	-	E	E	E	E	E	F	F	F	E	E	E
95	9	3	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	F	G	G	F	F	E
95	9	4	E	F	E	-	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	F	F	F	F	F
95	9	5	F	E	E	E	E	E	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E	E
95	9	6	E	E	F	F	E	E	E	E	E	E	E	E	D	D	D	D	E	E	E	F	F	F	E	E
95	9	7	E	F	E	E	E	E	E	E	E	E	E	E	D	E	E	E	E	E	E	E	E	E	E	E
95	9	8	E	E	E	E	E	E	E	D	D	D	E	E	E	E	F	F	F	F	G	G	G	G	G	G
95	9	9	G	-	-	-	-	F	F	D	F	F	E	E	E	E	F	E	E	E	-	-	-	-	-	-
95	9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	D	F	F	F	E	E
95	9	11	F	F	F	E	E	E	E	D	D	B	A	A	A	A	B	D	D	E	E	D	D	C	D	D
95	9	12	D	-	-	-	-	-	-	-	-	B	C	A	B	A	C	D	F	G	E	E	F	E	E	-
95	9	13	F	F	F	E	E	F	F	E	D	B	A	A	A	A	A	B	D	-	-	-	-	-	-	-
95	9	14	-	E	E	E	E	E	E	D	D	C	A	A	A	A	A	C	D	E	G	G	G	F	F	F
95	9	15	E	E	E	E	E	F	E	D	C	C	-	-	-	-	-	C	D	E	E	E	E	E	E	E
95	9	16	E	D	D	D	D	C	C	D	C	C	B	-	-	B	A	B	D	E	E	E	E	E	E	E
95	9	17	E	E	E	E	E	E	E	D	C	B	A	A	A	A	A	B	D	E	E	E	F	F	E	E
95	9	18	E	E	E	E	E	F	E	D	C	C	B	A	A	A	C	D	D	D	E	E	E	E	-	-
95	9	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	9	20	D	D	D	D	D	D	C	B	B	A	A	A	B	C	D	D	D	D	C	A	B	B	A	A
95	9	21	A	A	A	A	A	A	C	D	D	D	C	D	D	C	C	D	D	E	F	F	E	F	F	F
95	9	22	F	E	E	E	E	E	D	C	B	A	A	A	A	A	A	B	D	E	F	F	E	E	E	E
95	9	23	E	E	E	E	E	E	D	C	A	-	-	-	A	A	A	D	D	E	E	F	E	E	E	E
95	9	24	E	F	F	F	F	F	E	D	D	C	F	C	C	C	D	D	D	E	F	F	F	F	F	G
95	9	25	G	G	G	G	G	G	F	D	C	C	A	B	A	A	B	D	E	G	G	G	F	G	G	G
95	9	26	G	F	F	F	F	G	G	E	D	C	-	-	-	-	-	-	-	D	F	F	F	E	E	E
95	9	27	F	F	F	F	F	F	-	-	-	-	-	-	-	-	-	-	-	F	F	F	F	F	F	F
95	9	28	F	F	F	F	F	F	E	D	D	B	A	A	A	A	A	D	D	E	E	E	E	D	D	D

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

YR MN DY	HOURLY STABILITIES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
95 9 29	D	D	D	-	-	-	-	-	-	-	-	-	C	B	A	B	D	D	E	D	D	D	D	D
95 9 30	D	D	D	D	D	D	D	D	B	A	A	A	A	A	B	C	D	D	D	D	E	E	E	E
95 10 1	E	E	F	E	F	F	F	E	C	B	C	A	B	A	A	A	D	E	F	F	F	F	G	F
95 10 2	F	F	E	F	F	F	E	E	D	C	C	D	D	C	D	D	D	D	D	D	D	D	F	E
95 10 3	G	F	F	F	G	F	E	E	D	B	C	C	A	B	A	C	D	F	G	G	G	F	G	F
95 10 4	F	F	E	E	E	E	E	D	D	A	A	A	A	A	A	B	D	D	E	E	E	E	D	D
95 10 5	D	D	D	D	D	C	D	C	C	C	B	C	C	D	D	D	D	D	E	E	E	-	-	-
95 10 6	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
95 10 7	E	F	E	E	E	E	E	D	D	B	B	B	C	B	B	C	D	E	F	G	G	F	G	G
95 10 8	F	F	E	E	F	F	F	E	D	D	D	C	C	D	C	D	D	E	-	-	-	-	-	E
95 10 9	E	E	E	E	E	F	D	D	D	D	D	D	B	A	B	C	E	F	G	G	G	G	F	E
95 10 10	F	G	G	G	G	G	F	D	D	B	A	C	C	A	B	D	F	G	G	G	G	F	E	E
95 10 11	E	E	F	E	E	E	F	E	D	A	A	A	A	A	A	A	D	E	F	F	F	F	F	E
95 10 12	F	E	E	E	E	E	E	D	D	A	A	A	A	A	A	B	D	E	E	E	E	E	E	E
95 10 13	E	E	E	E	E	E	D	D	D	D	D	D	D	D	C	D	D	D	E	E	E	E	E	E
95 10 14	E	E	E	E	E	E	E	D	D	C	B	A	A	A	A	C	D	-	-	-	-	-	-	-
95 10 15	-	-	-	-	-	-	-	-	D	D	C	B	C	A	A	C	D	E	F	G	G	F	F	F
95 10 16	F	E	E	E	-	-	-	-	-	-	-	-	-	-	-	A	D	E	E	E	E	E	E	E
95 10 17	E	E	E	E	E	E	E	E	D	C	A	A	B	B	D	E	E	G	F	F	F	F	F	G
95 10 18	G	F	G	G	G	G	F	E	D	C	B	-	C	A	A	B	D	E	F	E	E	E	E	E
95 10 19	E	E	E	E	E	E	D	D	D	D	D	D	D	D	C	D	D	D	E	E	D	D	E	E
95 10 20	E	E	E	E	E	E	D	D	B	B	B	C	B	A	D	D	D	E	E	E	E	E	E	F
95 10 21	F	G	F	F	E	E	E	E	D	B	A	B	A	A	B	B	D	F	G	G	G	G	G	F
95 10 22	F	F	F	F	F	E	E	E	D	C	B	B	B	A	A	B	D	E	E	E	E	E	E	E
95 10 23	E	E	E	E	D	E	E	D	C	A	B	D	D	D	D	D	D	D	D	D	D	D	D	D
95 10 24	D	D	E	E	E	E	E	D	D	B	A	A	A	A	A	C	D	F	F	F	F	F	F	F
95 10 25	F	F	F	F	F	F	F	F	E	C	B	B	A	A	A	C	D	-	-	-	-	-	-	-
95 10 26	-	-	-	-	-	-	-	F	E	D	D	D	C	D	D	E	D	E	F	F	F	E	E	E
95 10 27	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	E	E
95 10 28	E	E	E	E	E	E	E	D	D	C	B	A	A	A	B	C	-	-	-	-	G	G	-	-
95 10 29	-	-	-	G	G	G	F	E	E	E	E	-	-	-	-	-	-	-	-	-	-	-	-	-
95 10 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 10 31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 11 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	D	D	D	D
95 11 2	D	D	D	D	B	-	-	-	-	C	B	A	A	A	B	D	D	E	E	E	E	D	D	D
95 11 3	D	D	D	D	D	D	D	D	C	B	A	D	A	A	A	D	D	E	E	F	F	F	F	E
95 11 4	-	-	-	-	-	-	-	-	-	B	B	A	B	B	C	E	E	E	E	E	E	E	E	-
95 11 5	-	-	-	-	-	-	-	C	C	D	C	A	A	A	C	D	E	F	F	E	E	E	E	E
95 11 6	E	E	E	E	E	E	E	E	D	B	B	C	B	C	D	D	D	E	E	E	E	E	E	E
95 11 7	E	E	E	E	E	E	E	E	D	C	D	D	C	D	D	D	D	D	D	D	D	E	E	E
95 11 8	E	E	E	E	D	D	E	E	D	D	C	B	A	B	C	D	E	E	E	E	E	D	E	E
95 11 9	E	E	E	E	E	E	E	D	D	C	A	A	B	C	D	E	E	E	E	E	E	E	E	F
95 11 10	E	E	E	E	D	D	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	D	D
95 11 11	D	E	E	E	E	E	E	E	D	D	D	D	C	D	D	D	D	E	E	E	E	E	E	E
95 11 12	E	E	E	E	E	E	F	E	E	D	D	D	D	D	D	D	E	F	F	F	F	G	G	G

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

YR MN DY	HOURLY STABILITIES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
95 11 13	G	E	E	E	E	E	D	D	D	D	D	D	C	D	D	D	D	E	F	F	G	F	F	F
95 11 14	F	F	F	F	F	G	F	E	E	D	D	D	B	C	D	-	-	-	-	-	-	-	-	-
95 11 15	-	-	-	-	-	-	-	-	-	B	C	C	D	D	D	D	D	D	D	D	E	F	E	E
95 11 16	E	E	E	F	-	-	F	G	F	D	D	D	B	B	C	D	E	E	E	E	E	F	F	G
95 11 17	G	G	-	-	-	-	-	C	C	D	D	D	D	D	D	D	D	E	E	E	F	G	G	G
95 11 18	F	E	F	F	F	E	E	F	E	D	C	B	A	B	C	D	E	E	E	E	E	E	E	E
95 11 19	E	E	E	E	F	F	F	F	D	D	D	C	C	C	C	D	E	F	F	E	E	E	E	F
95 11 20	F	F	F	G	G	G	E	G	E	D	D	D	C	D	D	D	E	E	E	E	E	E	E	E
95 11 21	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	F	F	G	G	F	F	F	F
95 11 22	E	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 11 23	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F
95 11 24	F	F	F	E	E	E	E	E	D	D	D	B	A	B	D	D	E	F	F	F	F	F	F	F
95 11 25	F	F	G	G	G	G	G	G	F	E	C	C	C	D	D	D	E	F	E	F	E	E	F	F
95 11 26	E	E	E	E	F	G	F	G	G	E	D	D	D	D	E	E	E	E	F	E	E	D	D	D
95 11 27	D	D	D	C	C	B	B	A	C	C	C	A	A	C	C	D	D	D	D	D	D	D	D	D
95 11 28	D	E	E	E	E	E	E	E	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	E
95 11 29	E	E	E	E	E	E	E	E	D	D	C	C	C	C	D	D	E	F	F	F	G	G	G	G
95 11 30	G	G	G	G	G	G	G	G	G	F	E	D	A	A	E	E	E	E	E	F	F	F	G	F
95 12 1	F	G	G	-	-	-	-	-	-	D	D	C	C	D	D	D	D	F	F	F	F	F	G	G
95 12 2	G	G	F	E	E	E	F	E	E	D	C	A	A	B	B	D	D	E	E	E	E	E	E	F
95 12 3	E	E	F	G	F	E	F	G	G	F	D	D	D	C	D	D	E	G	G	F	-	-	-	-
95 12 4	-	-	-	-	-	-	F	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
95 12 5	E	E	D	E	E	E	E	E	D	D	C	B	A	B	C	D	D	E	-	-	-	-	-	G
95 12 6	G	F	F	F	F	E	E	D	D	D	D	D	C	A	C	D	D	D	D	D	D	D	D	D
95 12 7	D	D	C	C	D	D	D	D	C	D	D	D	C	A	A	A	A	A	A	B	B	B	B	C
95 12 8	B	B	D	D	A	A	A	A	-	-	C	D	D	D	D	D	D	D	D	D	D	E	D	E
95 12 9	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	F	G	-	-	-	-	-
95 12 10	-	-	-	-	-	-	E	D	D	D	C	D	D	D	D	D	E	E	E	E	E	D	D	D
95 12 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
95 12 12	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	C
95 12 13	C	D	D	D	D	D	C	B	A	A	B	A	A	-	-	-	-	-	-	-	-	-	-	-
95 12 14	-	-	E	E	E	E	F	G	F	E	D	D	D	D	D	D	E	F	F	G	G	G	G	G
95 12 15	G	G	F	F	E	D	E	E	-	-	-	-	-	-	D	D	D	F	G	F	E	E	E	E
95 12 16	E	E	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E
95 12 17	E	E	E	E	D	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-
95 12 18	-	-	-	-	-	-	D	D	D	A	-	-	-	-	-	-	-	-	-	-	D	D	D	D
95 12 19	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 12 20	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-
95 12 21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 12 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 12 23	-	-	-	-	-	-	-	-	-	D	D	D	-	-	-	-	D	D	E	D	E	E	E	D
95 12 24	E	E	D	E	E	E	E	E	E	E	D	E	E	E	D	D	D	E	E	E	D	D	D	D
95 12 25	D	D	D	D	D	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	F	E
95 12 26	E	E	F	E	E	E	E	E	-	-	-	-	-	-	-	-	-	-	-	E	E	E	E	E
95 12 27	E	E	E	E	D	D	D	D	D	D	D	D	C	C	D	D	D	E	E	E	F	G	G	G

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER 1 JCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

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
95 12 28	G	G	G	G	F	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 12 29	E	E	E	E	E	E	E	E	E	D	D	C	C	D	D	D	E	E	E	E	E	E	D	D
95 12 30	D	D	D	D	C	D	D	D	C	C	C	B	B	B	A	A	A	A	B	C	D	D	D	D
95 12 31	E	E	D	D	D	D	D	B	A	A	B	A	A	A	A	A	A	A	B	B	B	C	B	B

JFDs of 100-Meter Wind vs. Delta T

January-March 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

NNN JAN-MAR 1995 NNN

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

WIND MEASURED AT: 100.0 METERS

WIND THRESHOLD AT: 1.00 MPH

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

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

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

WIND MEASURED AT: 100.0 METERS

WIND THRESHOLD AT: 1.00 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	1	1	0	1	2	2	0	0	0	0	0	0	1	0	0	9
7.51-12.50	1	2	4	2	0	1	0	0	0	3	0	0	0	0	3	0	16
12.51-18.50	8	1	0	0	0	2	0	0	3	1	1	0	0	0	4	11	31
18.51-24.00	3	0	0	0	0	0	1	0	2	1	0	0	0	0	0	4	11
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	3
TOTAL	13	4	5	2	1	5	3	0	6	5	1	0	0	1	7	17	70

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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																	1
1.01- 3.50	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	3
3.51- 7.50	4	1	2	1	0	6	1	1	1	4	0	0	0	0	0	0	21
7.51-12.50	8	2	1	2	2	1	4	1	0	3	5	0	0	0	0	6	35
12.51-18.50	8	1	0	0	0	3	2	0	3	2	4	1	0	0	6	10	40
18.51-24.00	2	0	0	0	0	0	0	2	3	7	0	0	0	0	3	9	26
>24.00	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	4	8
TOTAL	22	4	3	3	2	11	7	4	10	17	10	1	0	1	9	29	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																	2
1.01- 3.50	2	6	2	1	1	5	4	2	2	2	4	0	1	3	3	1	39
3.51- 7.50	15	10	11	4	4	8	15	12	7	10	9	6	8	6	5	8	138
7.51-12.50	25	13	16	5	5	4	29	14	9	10	8	2	4	11	23	39	217
12.51-18.50	34	19	2	0	0	9	23	3	5	5	0	0	4	2	42	53	201
18.51-24.00	12	8	0	0	0	0	6	3	22	4	0	2	8	3	20	46	134
>24.00	0	0	0	0	0	0	2	0	20	3	1	0	4	0	2	26	58
TOTAL	88	56	31	10	10	26	79	34	65	34	22	10	29	25	95	173	789

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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																	4
1.01- 3.50	0	0	0	2	0	2	0	3	0	0	1	0	0	1	0	1	10
3.51- 7.50	6	1	0	6	2	4	2	6	0	4	6	2	1	2	3	2	47
7.51-12.50	12	4	3	4	1	0	8	10	6	16	14	3	4	6	16	26	133
12.51-18.50	5	2	1	0	0	0	9	1	10	21	9	5	1	2	19	25	110
18.51-24.00	0	0	0	0	0	0	10	3	16	5	7	4	1	2	10	14	72
>24.00	0	0	0	0	0	0	14	8	7	2	0	1	3	0	5	0	40
TOTAL	23	7	4	12	3	6	43	31	39	48	37	15	10	13	53	68	416

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	1	1	1	1	2	0	0	0	1	1	0	0	0	1	11
3.51- 7.50	3	1	2	0	2	0	1	5	0	6	5	0	3	1	1	3	33
7.51-12.50	3	0	0	0	0	1	2	3	4	9	9	3	4	10	4	2	54
12.51-18.50	0	1	0	0	0	0	1	2	2	19	7	4	1	2	2	4	45
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	0	3	2	3	0	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	2	0	5	3	0	10
TOTAL	6	4	3	1	3	2	6	10	6	34	23	10	11	20	13	10	162

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

STABILITY CLASS G

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	2	0	0	3	3	2	0	1	0	1	0	0	0	0	1	0	13
3.51- 7.50	2	2	0	0	1	1	2	4	2	4	0	0	1	1	0	3	23
7.51-12.50	0	0	0	0	0	0	4	2	0	4	2	0	0	3	2	0	17
12.51-18.50	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	4
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	2	0	3	4	3	7	7	2	9	4	1	1	4	3	3	57

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	7
1.01- 3.50	4	8	3	7	5	11	6	6	2	3	7	1	1	5	4	3	76
3.51- 7.50	31	17	16	11	10	21	23	28	10	28	20	8	13	11	9	16	272
7.51-12.50	49	22	24	13	8	7	47	31	19	45	38	8	12	30	48	73	474
12.51-18.50	61	24	3	0	0	14	36	6	23	48	23	11	6	6	73	104	438
18.51-24.00	19	8	0	0	0	0	17	8	43	17	8	6	12	7	36	73	254
>24.00	0	0	0	0	0	0	16	8	31	6	1	3	7	5	10	32	119
TOTAL	164	79	46	31	23	53	145	87	128	147	97	37	51	64	180	301	1640

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
 SITE IDENTIFIER: HPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 1640

TOTAL NUMBER OF MISSING OBSERVATIONS: 520

PERCENT DATA RECOVERY FOR THIS PERIOD: 75.9 %

MEAN WIND SPEED FOR THIS PERIOD: 13.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.73	4.27	8.17	48.11	25.37	9.88	3.48

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	8	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
B	13	4	5	2	1	5	3	0	6	5	1	0	0	1	7	17	0
C	22	4	3	3	2	11	7	4	10	17	10	1	0	1	9	29	1
D	88	56	31	10	10	26	79	34	65	34	22	10	29	25	95	173	2
E	23	7	4	12	3	6	43	31	39	48	37	15	10	13	53	68	4
F	6	4	3	1	3	2	6	10	6	34	23	10	11	20	13	10	0
G	4	2	0	3	4	3	7	7	2	9	4	1	1	4	3	3	0
TOTAL	164	79	46	31	23	53	145	87	128	147	97	37	51	64	180	301	7

JFDs of 100-Meter Wind vs. Delta T

April-June 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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	1	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	6
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	3	1	3	0	0	1	0	0	0	0	0	0	8

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4
12.51-18.50	0	0	0	0	0	0	3	1	1	0	0	0	0	0	0	0	5
18.51-24.00	0	0	0	0	0	0	0	1	2	0	1	0	0	0	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	0	2	0	3	4	3	0	1	0	0	0	0	0	14

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	0	1	1	0	2	1	0	0	0	0	0	0	0	0	6
7.51-12.50	0	0	1	1	0	3	0	1	3	1	0	0	0	1	0	0	11
12.51-18.50	0	0	2	0	0	2	5	3	3	1	0	0	0	2	0	0	18
18.51-24.00	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
>24.00	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
TOTAL	0	1	3	2	1	5	7	7	7	5	0	0	0	3	0	0	39

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	3
3.51- 7.50	3	2	1	3	3	3	1	3	0	0	0	0	0	0	0	2	21
7.51-12.50	0	3	1	2	7	3	5	2	1	3	2	9	2	3	2	0	36
12.51-18.50	0	2	7	0	1	16	14	9	1	1	0	1	0	6	2	1	61
18.51-24.00	1	0	0	0	0	1	2	5	1	3	0	1	2	1	0	1	18
>24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
TOTAL	4	7	11	5	11	23	23	19	3	7	2	3	4	10	4	4	140

PROGRAM: JFD VERSION: 5.0
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
3.51- 7.50	1	3	0	0	1	0	1	0	0	0	1	0	0	0	0	5	12
7.51-12.50	0	3	0	0	0	0	4	3	2	5	0	0	0	0	0	0	17
12.51-18.50	0	0	0	0	0	1	15	4	0	0	0	0	0	0	0	1	21
18.51-24.00	0	0	0	0	0	0	1	1	1	0	0	0	0	0	7	2	12
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	1	6	0	0	1	1	21	8	5	5	1	0	0	0	7	8	64

STABILITY CLASS F

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
3.51- 7.50	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7.51-12.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
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	3	1	0	2	0	0	0	0	5	0	0	0	0	0	0	11

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

STABILITY CLASS G

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
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	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	1	2	1	2	0	0	0	1	0	0	1	0	0	0	0	8
3.51- 7.50	5	11	3	4	5	3	4	4	0	0	1	0	0	0	0	7	47
7.51-12.50	0	6	2	3	10	6	9	8	6	10	2	0	2	4	2	0	70
12.51-18.50	0	2	9	0	3	20	40	17	5	6	0	1	0	8	2	2	115
18.51-24.00	1	0	0	0	0	1	3	8	4	5	1	1	2	1	7	3	37
>24.00	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	4
TOTAL	6	20	16	8	20	30	57	38	18	21	4	3	4	13	11	12	281

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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: 281

TOTAL NUMBER OF MISSING OBSERVATIONS: 1903

PERCENT DATA RECOVERY FOR THIS PERIOD: 12.9 %

MEAN WIND SPEED FOR THIS PERIOD: 13.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.85	4.98	13.88	49.82	22.78	3.91	1.78

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	3	1	3	0	0	1	0	0	0	0	0	0	0
B	0	0	1	0	2	0	3	4	3	0	1	0	0	0	0	0	0
C	0	1	3	2	1	5	7	7	7	3	0	0	0	3	0	0	0
D	4	7	11	5	11	23	23	19	3	7	2	3	4	10	4	4	0
E	1	6	0	0	1	1	21	8	5	5	1	0	0	0	7	8	0
F	0	3	1	0	2	0	0	0	0	5	0	0	0	0	0	0	0
G	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	20	16	8	20	30	57	38	18	21	4	3	4	13	11	12	0

JFDs of 10C-Meter Wind vs. Delta T

January-June 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3
12.51-18.50	6	0	0	0	2	1	3	0	0	0	0	0	0	0	0	1	13
18.51-24.00	2	0	0	0	0	0	0	0	0	1	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	8	2	0	0	3	1	3	1	0	1	0	0	0	0	0	1	20

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	1	1	2	0	1	2	2	0	0	0	0	0	0	1	0	0	10
7.51-12.50	1	2	4	2	2	1	0	2	0	3	0	0	0	0	3	0	20
12.51-18.50	8	1	0	0	0	2	3	1	4	1	1	0	0	0	4	11	36
18.51-24.00	3	0	0	0	0	0	1	1	4	1	1	0	0	0	0	4	15
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	3
TOTAL	13	4	6	2	3	5	6	4	9	5	2	0	0	1	7	17	84

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	3
3.51- 7.50	4	2	2	2	1	6	3	2	1	4	0	0	0	0	0	0	27
7.51-12.50	8	2	2	3	2	4	4	2	3	4	5	0	0	1	0	6	46
12.51-18.50	8	1	2	0	0	5	7	3	6	3	4	1	0	2	6	10	58
18.51-24.00	2	0	0	0	0	0	0	3	3	8	0	0	0	0	3	9	28
>24.00	0	0	0	0	0	0	0	1	4	1	0	0	0	0	0	4	10
TOTAL	22	5	6	5	3	16	14	11	17	20	10	1	0	4	9	29	173

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	2	6	4	1	1	5	4	2	2	2	4	1	1	3	3	1	42
3.51- 7.50	18	12	12	7	7	11	16	15	7	10	9	6	8	6	5	10	159
7.51-12.50	25	16	17	7	12	7	34	16	10	13	10	2	6	14	25	39	253
12.51-18.50	34	21	9	0	1	25	37	12	6	6	0	1	4	8	44	54	262
18.51-24.00	13	8	0	0	0	1	8	8	23	7	0	3	10	4	20	47	152
>24.00	0	0	0	0	0	0	3	0	20	3	1	0	4	0	2	26	59
TOTAL	92	63	42	15	21	49	102	53	68	41	24	13	33	35	99	177	929

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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																	4
1.01- 3.50	0	0	0	2	0	2	0	3	1	0	1	0	0	1	0	1	11
3.51- 7.50	7	4	0	6	3	4	3	6	0	4	7	2	1	2	3	7	59
7.51-12.50	12	7	3	4	1	0	12	13	8	21	14	3	4	6	16	26	150
12.51-18.50	5	2	1	0	0	1	24	5	10	21	9	5	1	2	19	26	131
18.51-24.00	0	0	0	0	0	0	11	4	17	5	7	4	1	2	17	16	84
>24.00	0	0	0	0	0	0	14	8	8	2	0	1	3	0	5	0	41
TOTAL	24	13	4	12	4	7	64	39	44	53	38	15	10	13	60	76	480

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	1	1	3	1	2	0	0	0	1	1	0	0	0	1	14
3.51- 7.50	3	3	3	0	2	0	1	5	0	6	5	0	3	1	1	3	36
7.51-12.50	3	0	0	0	0	1	2	3	4	10	9	3	4	10	4	2	55
12.51-18.50	0	1	0	0	0	0	1	2	2	23	7	4	1	2	2	4	49
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	0	3	2	3	0	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	2	0	5	3	0	10
TOTAL	6	7	4	1	5	2	6	10	6	39	23	10	11	20	13	10	173

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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	2	0	0	4	3	2	0	1	0	1	0	0	0	0	1	0	14
3.51- 7.50	3	5	0	0	1	1	2	4	2	4	0	0	1	1	0	3	27
7.51-12.50	0	0	0	0	0	0	4	2	0	4	2	0	0	3	2	0	17
12.51-18.50	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	4
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	5	0	4	4	3	7	7	2	9	4	1	1	4	3	3	62

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																	7
1.01- 3.50	4	9	5	8	7	11	6	6	3	3	7	2	1	5	4	3	84
3.51- 7.50	36	28	19	15	15	24	27	32	10	28	21	8	13	11	9	23	319
7.51-12.50	49	28	26	16	18	13	56	39	25	55	40	8	14	34	50	73	544
12.51-18.50	61	26	12	0	3	34	76	23	28	54	23	12	6	14	75	106	553
18.51-24.00	20	8	0	0	0	1	20	16	47	22	9	7	14	8	43	76	291
>24.00	0	0	0	0	0	0	17	9	33	6	1	3	7	5	10	32	123
TOTAL	170	99	62	39	43	83	202	125	146	168	101	40	55	77	191	313	1921

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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

TOTAL NUMBER OF OBSERVATIONS: 4344

TOTAL NUMBER OF VALID OBSERVATIONS: 1921

TOTAL NUMBER OF MISSING OBSERVATIONS: 2423

PERCENT DATA RECOVERY FOR THIS PERIOD: 44.2 %

MEAN WIND SPEED FOR THIS PERIOD: 13.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.04	4.37	9.01	48.36	24.99	9.01	3.23

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	2	0	0	3	1	3	1	0	1	0	0	0	0	0	1	0
B	13	4	6	2	3	5	6	4	9	5	2	0	0	1	7	17	0
C	22	5	6	5	3	16	14	11	17	20	10	1	0	4	9	29	1
D	92	63	42	15	21	49	102	53	68	41	24	13	33	35	99	177	2
E	24	13	4	12	4	7	64	39	44	53	38	15	10	13	60	76	4
F	6	7	4	1	5	2	6	10	6	39	23	10	11	20	13	10	0
G	5	5	0	4	4	3	7	7	2	9	4	1	1	4	3	3	0
TOTAL	170	99	62	39	43	83	202	125	146	168	101	40	55	77	191	313	7

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

January-June 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	1	1	D	E	E	F	F	F	F	F	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E
95	1	2	E	F	E	F	F	F	F	F	E	E	D	D	D	D	D	D	D	E	E	E	F	E	E	D
95	1	3	D	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	E	E	F	F	G	F	F
95	1	4	G	G	G	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	F	F	F	F	F
95	1	5	F	F	F	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D
95	1	6	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	7	E	E	E	E	E	E	F	F	F	F	E	E	D	D	D	D	D	E	E	F	F	F	F	F
95	1	8	F	F	F	E	E	E	D	D	F	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F
95	1	9	G	G	G	G	G	G	G	F	F	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E
95	1	10	E	E	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	E
95	1	11	E	E	E	E	E	E	E	E	D	D	E	E	D	D	D	D	D	D	D	D	E	E	E	E
95	1	12	E	E	D	D	D	D	D	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	13	E	E	E	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	14	D	D	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D
95	1	15	D	D	D	D	D	D	D	D	D	D	D	D	C	A	C	D	E	E	E	E	E	E	E	E
95	1	16	E	E	E	E	E	E	E	E	E	D	D	D	D	C	D	E	E	E	E	E	E	E	E	E
95	1	17	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
95	1	18	G	G	G	F	F	G	F	F	F	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E
95	1	19	E	D	D	D	E	D	E	D	D	D	D	C	C	B	D	D	D	E	E	E	E	E	E	D
95	1	20	D	D	D	D	D	D	D	D	D	D	C	D	C	B	D	D	D	D	D	D	D	D	D	D
95	1	21	D	D	D	D	D	D	D	D	D	D	D	C	B	D	D	D	D	D	D	E	E	E	E	E
95	1	22	E	E	E	E	D	D	E	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D
95	1	23	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	D
95	1	24	D	D	D	E	E	D	D	D	D	D	D	D	B	C	D	D	D	E	F	G	G	G	G	G
95	1	25	F	E	E	E	E	D	D	D	D	D	D	C	C	C	C	D	D	D	E	E	E	E	F	F
95	1	26	F	F	F	F	F	G	F	F	E	D	D	D	C	C	D	D	D	E	E	E	D	D	D	D
95	1	27	D	D	C	C	D	D	D	C	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	-
95	1	28	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	29	D	D	D	C	D	D	D	D	C	B	B	B	B	B	B	B	B	C	D	E	D	D	D	E
95	1	30	E	E	D	D	D	D	E	E	D	D	D	D	C	C	C	C	D	E	E	E	E	E	E	E
95	1	31	E	F	E	E	F	F	-	-	-	D	D	D	D	D	D	D	D	E	F	F	F	F	F	E
95	2	1	E	E	D	E	E	E	E	E	F	E	D	C	B	C	D	D	D	E	G	F	F	F	F	F
95	2	2	F	F	F	E	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
95	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
95	2	4	D	D	D	D	D	D	D	D	D	D	D	C	C	C	D	C	D	D	D	D	D	D	D	-
95	2	5	D	D	D	B	D	D	D	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-
95	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D	E	F	F
95	2	7	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	8	D	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
95	2	9	F	E	E	E	E	F	F	F	E	E	D	D	D	D	D	D	D	E	F	F	F	F	F	C
95	2	10	F	E	E	E	D	D	D	D	D	D	C	C	C	C	B	C	D	D	D	E	E	E	F	F
95	2	11	E	D	D	D	D	D	D	D	C	C	C	C	B	C	C	D	D	E	E	E	E	E	E	F
95	2	12	F	E	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	13	D	D	D	D	E	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	14	D	D	D	D	D	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES
 HOURS

YR	HN	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
95	2	15	-	-	-	-	-	-	-	-	D	D	D	C	C	B	B	B	D	D	E	E	E	E	F	F
95	2	16	E	E	E	E	E	F	F	F	D	D	D	C	C	C	D	D	D	E	F	G	G	G	G	G
95	2	17	G	F	G	F	F	F	F	F	E	D	D	C	C	C	C	D	D	E	F	F	F	E	E	E
95	2	18	E	E	E	E	E	E	E	F	E	D	D	C	C	C	C	D	D	E	F	F	E	E	E	E
95	2	19	E	E	E	E	E	D	D	D	D	D	C	D	C	D	D	D	D	E	F	G	G	G	F	F
95	2	20	E	E	E	E	E	E	E	E	D	D	C	C	B	B	C	D	D	D	E	E	E	E	E	E
95	2	21	F	F	F	G	G	-	-	-	E	D	D	C	B	C	C	D	D	E	F	F	F	F	F	E
95	2	22	E	E	F	G	G	G	F	F	G	E	D	C	C	C	C	D	D	E	F	F	E	E	E	E
95	2	23	E	E	E	E	D	D	D	E	D	B	B	B	B	B	C	C	D	D	E	E	E	E	E	E
95	2	24	E	E	F	F	F	G	G	F	E	D	D	B	B	B	B	C	D	E	E	E	F	E	E	E
95	2	25	E	E	E	E	E	E	E	E	D	D	C	C	B	C	C	D	D	E	E	F	F	E	E	E
95	2	26	E	F	F	G	G	G	G	F	E	D	C	B	B	B	B	-	-	-	-	-	-	-	-	-
95	2	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	B	B	B	C	C	C
95	2	28	D	D	D	D	D	D	D	D	D	C	C	B	A	A	B	B	C	D	D	D	D	E	D	E
95	3	1	E	E	E	E	E	D	D	D	D	C	C	B	C	A	B	B	C	D	D	D	D	D	D	D
95	3	2	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	E	E	E	F	F	F
95	3	3	F	F	F	F	F	E	E	E	D	D	C	B	C	B	B	C	D	D	E	E	E	E	E	E
95	3	4	E	E	E	E	D	D	D	D	D	D	D	D	C	D	D	C	B	B	B	C	C	B	C	C
95	3	5	C	C	C	B	B	B	B	A	C	C	C	C	C	C	C	C	D	D	D	D	D	D	D	D
95	3	6	D	D	D	D	D	D	D	D	D	C	B	B	C	C	B	-	D	D	C	B	B	C	D	D
95	3	7	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	3	8	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
95	3	9	E	E	E	E	E	E	D	D	D	D	C	C	C	C	C	C	D	D	E	E	E	E	E	E
95	3	10	E	E	E	E	E	E	E	E	D	D	C	C	C	C	D	D	D	E	E	E	E	E	E	E
95	3	11	E	F	F	F	E	E	E	E	D	D	C	B	B	B	C	C	D	D	E	E	E	E	D	E
95	3	12	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	3	13	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	14	-	-	-	-	-	-	-	-	-	-	-	-	A	B	A	A	C	D	D	D	D	D	D	-
95	3	15	-	-	-	-	-	-	-	-	-	A	B	C	B	C	B	B	D	D	E	F	G	G	G	G
95	3	16	G	G	G	G	G	G	G	G	F	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-
95	3	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

			HOURLY STABILITIES																							
			HOURS																							
YR	MN	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
95	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	B	A	C	D	D	D	E	E	D	A	A
95	4	26	C	D	E	E	E	E	D	-	-	-	-	-	-	-	-	-	-	-	D	D	E	E	E	D
95	4	27	E	E	E	E	E	E	D	D	D	C	C	C	C	D	D	D	D	D	D	E	F	F	F	F
95	4	28	F	E	E	E	E	E	D	D	D	C	C	C	C	B	B	C	D	D	D	E	E	E	E	D
95	4	29	D	D	D	D	D	D	D	D	D	D	D	A	A	C	D	D	D	D	D	B	B	C	C	D
95	4	30	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	A
95	5	1	C	D	D	D	D	D	D	D	D	C	D	D	D	C	D	D	D	D	D	E	E	E	F	F
95	5	2	F	G	G	G	G	G	F	E	D	C	B	C	C	B	B	C	D	D	D	D	E	E	E	E
95	5	3	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	4	-	-	-	-	-	-	-	-	-	B	C	C	D	D	D	D	D	D	D	D	E	E	E	E
95	5	5	E	E	E	E	E	F	F	E	D	D	D	D	C	D	C	D	D	D	D	E	E	E	E	E
95	5	6	E	E	E	E	E	E	E	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D
95	5	7	C	C	C	C	B	A	A	B	B	C	C	D	D	-	-	-	-	-	-	-	-	-	-	-
95	5	8	-	-	-	-	-	-	-	-	B	B	C	D	D	D	D	C	E	D	D	D	C	D	E	E
95	5	9	E	E	E	E	D	D	D	D	C	D	C	C	D	D	D	D	D	D	D	D	D	D	D	-
95	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
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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
95	5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 10G-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95 6 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

JFDs of 100-Meter Wind vs. Delta T

July-September 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

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																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1

STABILITY CLASS B

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

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

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

PROGRAM: JFD VERSION: 5P

NPPB-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1995

SITE IDENTIFIER: NPPD

DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

WIND MEASURED AT: 100.0 METERS

WIND THRESHOLD AT: 1.00 MPH

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

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

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

WIND MEASURED AT: 100.0 METERS

WIND THRESHOLD AT: 1.00 MPH

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

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

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	1	1	1	2	0	0	0	0	0	0	5
18.51-24.00	0	0	0	0	0	0	2	1	1	0	0	0	4	0	0	0	8
>24.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
TOTAL	0	0	0	0	0	0	3	5	2	4	0	0	4	0	0	0	18

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	2	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	0	0	1	5	3	0	0	0	0	0	0	9
12.51-18.50	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
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	0	0	0	0	0	0	1	14	5	0	0	0	0	0	0	20

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

NNN JUL-SEP 1995 NNN

STABILITY CLASS G

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

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

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

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	3	0	0	0	0	0	0	3
7.51-12.50	0	0	0	0	0	0	0	5	5	5	0	0	0	0	0	0	15
12.51-18.50	0	0	0	0	0	0	2	4	14	5	3	0	0	0	0	0	28
18.51-24.00	0	0	0	0	0	0	2	10	1	3	0	2	4	2	0	0	24
>24.00	0	0	0	0	0	0	0	2	6	1	0	2	2	4	0	0	13
TOTAL	0	0	0	0	0	0	4	21	26	17	3	2	6	4	0	0	83

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-SEP 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 9/30/95

*** JUL-SEP 1995 ***

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: 83

TOTAL NUMBER OF MISSING OBSERVATIONS: 2125

PERCENT DATA RECOVERY FOR THIS PERIOD: 3.8 %

MEAN WIND SPEED FOR THIS PERIOD: 17.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

	A	B	C	D	E	F	G
	1.20	4.82	9.64	38.55	21.69	24.10	0.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	3	0	0	2	2	1	0	0	0	0
D	0	0	0	0	0	0	1	10	7	8	1	0	1	4	0	0	0
E	0	0	0	0	0	0	3	5	2	4	0	0	4	0	0	0	0
F	0	0	0	0	0	0	0	1	14	5	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	4	21	26	17	3	2	6	4	0	0	0

JFDs of 100-Meter Wind vs. Delta T

October-December 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

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	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	2	5
18.51-24.00	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
>24.00	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	5
TOTAL	2	0	0	0	0	1	3	0	5	2	0	0	0	0	0	2	15

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	3	4	0	0	0	1	0	0	0	0	0	0	8
7.51-12.50	0	0	0	1	0	1	4	0	5	3	0	1	2	1	0	0	18
12.51-18.50	0	0	1	0	0	0	1	0	3	0	0	0	2	0	1	0	8
18.51-24.00	1	0	0	0	0	1	0	0	2	0	0	0	0	2	1	0	7
>24.00	3	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0	7
TOTAL	4	0	1	1	3	6	5	2	11	4	0	1	4	3	3	0	48

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	1	0	1	1	4	0	0	0	0	0	0	0	0	0	1	9
7.51-12.50	4	2	1	5	0	1	0	0	7	3	2	2	6	5	0	0	46
12.51-18.50	1	0	3	1	1	0	3	2	1	3	0	1	3	2	1	2	24
18.51-24.00	3	0	0	0	0	0	1	3	5	0	0	0	0	3	6	1	22
>24.00	5	0	0	0	0	0	1	0	0	0	0	0	0	1	5	5	17
TOTAL	14	3	4	7	3	5	5	13	13	6	2	3	9	11	12	9	119

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	1	1	2	0	1	0	1	2	1	1	3	2	0	1	1	18
3.51- 7.50	5	4	2	1	5	6	8	5	6	17	11	7	8	11	5	16	117
7.51-12.50	18	8	12	17	15	13	11	14	26	16	14	5	18	16	29	27	259
12.51-18.50	15	2	3	12	10	7	16	13	19	13	6	2	4	24	37	32	215
18.51-24.00	6	0	7	0	0	0	8	7	7	10	2	0	1	29	54	32	163
>24.00	12	2	0	0	0	1	3	2	4	1	0	1	7	19	19	17	88
TOTAL	57	17	25	32	30	28	46	42	64	58	34	18	40	99	145	125	860

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

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																	1
1.01- 3.50	0	4	1	2	2	1	1	1	0	0	1	0	1	0	1	1	16
3.51- 7.50	10	3	3	3	2	1	6	4	5	5	6	4	3	1	4	3	63
7.51-12.50	7	6	2	0	0	4	8	11	8	20	9	0	2	7	14	17	115
12.51-18.50	12	3	2	0	5	10	12	37	47	22	5	2	6	12	14	15	204
18.51-24.00	4	0	0	1	0	12	7	15	35	3	3	2	12	26	9	4	133
>24.00	0	0	0	0	0	2	1	1	8	0	0	1	1	13	3	2	32
TOTAL	33	16	8	6	9	30	35	69	103	50	24	9	25	59	45	42	564

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	3	2	0	1	0	0	1	1	0	0	8
3.51- 7.50	4	2	0	2	5	3	4	3	2	4	3	2	1	0	1	2	38
7.51-12.50	2	3	4	1	2	6	4	8	16	9	5	1	4	2	7	8	82
12.51-18.50	0	0	1	0	1	6	4	28	23	6	6	2	6	2	7	4	96
18.51-24.00	0	0	0	0	0	0	3	2	2	0	2	1	2	3	0	0	15
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2
TOTAL	6	5	5	3	8	15	18	43	43	20	16	7	14	9	15	14	241

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

STABILITY CLASS G

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	1	0	0	1	1	0	0	0	0	1	0	0	1	0	5
3.51- 7.50	0	2	4	0	0	1	1	2	1	0	1	1	1	1	0	0	15
7.51-12.50	0	1	3	3	2	1	1	2	4	9	0	0	3	1	1	1	32
12.51-18.50	0	0	0	0	0	0	1	11	4	2	1	0	1	1	2	0	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	0	3	8	3	2	3	4	15	9	11	2	2	5	3	4	1	75

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	1	5	3	4	3	3	5	4	2	2	2	4	4	1	3	2	48
3.51- 7.50	20	12	9	7	16	19	19	14	14	27	21	14	13	13	10	22	250
7.51-12.50	32	20	22	27	19	26	28	43	66	62	30	9	35	32	51	53	555
12.51-18.50	28	5	10	13	17	23	37	91	100	46	18	7	22	41	62	55	575
18.51-24.00	15	0	7	1	0	14	19	27	51	13	7	3	15	63	70	37	342
>24.00	20	2	0	0	0	3	8	5	15	1	0	3	8	34	28	24	151
TOTAL	116	44	51	52	55	88	116	184	248	151	78	40	97	184	224	193	1922

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T OCT-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 10/ 1/95 - 12/31/95

*** OCT-DEC 1995 ***

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: 1922

TOTAL NUMBER OF MISSING OBSERVATIONS: 286

PERCENT DATA RECOVERY FOR THIS PERIOD: 87.0 %

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
0.78	2.50	6.19	44.75	29.34	12.54	3.90

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	2	0	0	0	0	1	3	0	5	2	0	0	0	0	0	2	0
B	4	0	1	1	3	6	5	2	11	4	0	1	4	3	3	0	0
C	14	3	4	7	3	5	5	13	13	6	2	3	9	11	12	9	0
D	57	17	25	32	30	28	46	42	64	52	34	18	40	99	145	125	0
E	33	16	8	6	9	30	35	69	103	50	24	9	25	59	45	42	1
F	6	5	5	3	8	15	18	43	43	20	16	7	14	9	15	14	0
G	0	3	8	3	2	3	4	15	9	11	2	2	5	3	4	1	0
TOTAL	116	44	51	52	55	88	116	184	248	151	78	40	97	184	224	193	1

JFDs of 100-Meter Wind vs. Delta T

July-December 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

STABILITY CLASS A

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

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

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

STABILITY CLASS B

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	3	4	0	0	0	1	0	0	0	0	0	0	8
7.51-12.50	0	0	0	1	0	1	4	0	5	3	0	1	2	1	0	0	18
12.51-18.50	0	0	1	0	0	0	1	1	6	0	0	0	2	0	1	0	12
18.51-24.00	1	0	0	0	0	1	0	0	2	0	0	0	0	2	1	0	7
>24.00	3	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0	7
TOTAL	4	0	1	1	3	6	5	3	14	4	0	1	4	3	3	0	52

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	1	0	1	1	4	0	0	0	0	0	0	0	0	0	1	9
7.51-12.50	4	2	1	5	0	1	0	8	7	3	2	2	6	5	0	0	46
12.51-18.50	1	0	3	1	1	0	3	3	1	3	2	1	3	2	1	2	27
18.51-24.00	3	0	0	0	0	0	1	5	5	0	0	2	0	3	6	1	26
>24.00	5	0	0	0	0	0	1	0	0	0	0	0	1	1	5	5	18
TOTAL	14	3	4	7	3	5	5	16	13	6	4	5	10	11	12	9	127

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	1	1	2	0	1	0	1	2	1	1	3	2	0	1	1	18
3.51- 7.50	5	4	2	1	5	6	8	5	6	17	11	7	8	11	5	16	117
7.51-12.50	18	8	12	17	15	13	11	16	26	17	14	5	18	16	29	27	262
12.51-18.50	15	2	3	12	10	7	17	14	20	16	7	2	4	24	37	32	222
18.51-24.00	6	0	7	0	0	0	8	13	7	13	2	0	1	31	54	32	174
>24.00	12	2	0	0	0	1	3	3	10	2	0	1	8	21	19	17	99
TOTAL	57	17	25	32	30	28	47	52	71	66	35	18	41	103	145	125	892

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	0	4	1	2	2	1	1	1	0	0	1	0	1	0	1	1	16
3.51- 7.50	10	3	3	3	2	1	6	4	5	6	6	4	3	1	4	3	64
7.51-12.50	7	6	2	0	0	4	8	13	8	21	9	0	2	7	14	17	118
12.51-18.50	12	3	2	0	5	10	13	38	48	24	5	2	6	12	14	15	209
18.51-24.00	4	0	0	1	0	12	9	16	36	3	3	2	16	26	9	4	141
>24.00	0	0	0	0	0	2	1	2	0	0	0	1	1	13	3	2	33
TOTAL	33	16	8	6	9	30	38	74	105	54	24	9	29	59	45	42	582

STABILITY CLASS F

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	3	2	0	1	0	0	1	1	0	0	8
3.51- 7.50	4	2	0	2	5	3	4	3	2	6	3	2	1	0	1	2	40
7.51-12.50	2	3	4	1	2	6	4	9	21	12	5	1	4	2	7	8	91
12.51-18.50	0	0	1	0	1	6	4	28	32	6	6	2	6	2	7	4	105
18.51-24.00	0	0	0	0	0	0	3	2	2	0	2	1	2	3	0	0	15
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2
TOTAL	6	5	5	3	8	15	18	44	57	25	16	7	14	9	15	14	261

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

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	1	0	0	1	1	0	0	0	0	1	0	0	1	0	5
3.51- 7.50	0	2	4	0	0	1	1	2	1	0	1	1	1	1	0	0	15
7.51-12.50	0	1	3	3	2	1	1	2	4	9	0	0	3	1	1	1	32
12.51-18.50	0	0	0	0	0	0	1	11	4	2	1	0	1	1	2	0	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	0	3	8	3	2	3	4	15	9	11	2	2	5	3	4	1	75

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																	1
1.01- 3.50	1	5	3	4	3	3	5	4	2	2	2	4	4	1	3	2	48
3.51- 7.50	20	12	9	7	16	19	19	14	14	30	21	14	13	13	10	22	253
7.51-12.50	32	20	22	27	19	26	28	48	71	6	30	9	35	32	51	53	570
12.51-18.50	28	5	10	13	17	23	39	95	114	5	21	7	22	41	62	55	603
18.51-24.00	15	0	7	1	0	14	21	37	52	16	7	5	19	65	70	37	366
>24.00	20	2	0	0	0	3	8	7	21	2	0	3	10	36	28	24	164
TOTAL	116	44	51	52	55	88	120	205	274	168	81	42	103	188	224	193	2005

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

*** JUL-DEC 1995 ***

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: 2005

TOTAL NUMBER OF MISSING OBSERVATIONS: 2411

PERCENT DATA RECOVERY FOR THIS PERIOD: 45.4 %

MEAN WIND SPEED FOR THIS PERIOD: 14.3 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.80	2.59	6.33	4.49	29.03	13.02	3.74

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	2	0	0	0	0	1	3	1	5	2	0	0	0	0	0	2	0
B	4	0	1	1	3	6	5	3	14	4	0	1	4	3	3	0	0
C	14	3	4	7	3	5	5	16	13	6	4	5	10	11	12	9	0
D	57	17	25	32	30	28	47	52	71	66	35	18	41	103	145	125	0
E	33	16	8	6	9	30	38	74	105	54	24	9	29	59	45	42	1
F	6	5	5	3	8	15	18	44	57	25	16	7	14	9	15	14	0
G	0	3	8	3	2	3	4	15	9	11	2	2	5	3	4	1	0
TOTAL	116	44	51	52	55	88	120	205	274	168	81	42	103	188	224	193	1

JFDs of 100-Meter Wind vs. Delta T

January-December 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	1	1	0	0	1	0	0	1	0	2	0	0	0	0	0	0	6
12.51-18.50	6	0	0	0	2	1	3	0	3	0	0	0	0	0	0	3	18
18.51-24.00	3	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	6
>24.00	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	5
TOTAL	10	2	0	0	3	2	6	2	5	3	0	0	0	0	0	3	36

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	1	1	2	0	4	6	2	0	0	1	0	0	0	1	0	0	18
7.51-12.50	1	2	4	3	2	2	4	2	5	6	0	1	2	1	3	0	38
12.51-18.50	8	1	1	0	0	2	4	2	10	1	1	0	2	0	5	11	48
18.51-24.00	4	0	0	0	0	1	1	1	6	1	1	0	0	2	1	4	22
>24.00	3	0	0	0	0	0	0	2	2	0	0	0	0	0	1	2	10
TOTAL	17	4	7	3	6	11	11	7	23	9	2	1	4	4	10	17	136

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

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																	1
1.01- 3.50	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	4
3.51- 7.50	5	3	2	3	2	10	3	2	1	4	0	0	0	0	0	1	36
7.51-12.50	12	4	3	8	2	5	4	10	10	7	7	2	6	6	0	6	92
12.51-18.50	9	1	5	1	1	5	10	6	7	6	6	2	3	4	7	12	85
18.51-24.00	5	0	0	0	0	0	1	8	8	8	0	2	0	3	9	10	54
>24.00	5	0	0	0	0	0	1	1	4	1	0	0	1	1	5	9	28
TOTAL	36	8	10	12	6	21	19	27	30	26	14	6	10	15	21	38	300

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																	2
1.01- 3.50	3	7	5	3	1	6	4	3	4	3	5	4	3	3	4	2	60
3.51- 7.50	23	16	14	8	12	17	24	20	13	27	20	13	16	17	10	26	276
7.51-12.50	43	24	29	24	27	20	45	32	36	30	24	7	24	30	54	66	515
12.51-18.50	49	23	12	12	11	32	54	26	26	22	7	3	8	32	81	86	484
18.51-24.00	19	8	7	0	0	1	16	21	30	20	2	3	11	35	74	79	326
>24.00	12	2	0	0	0	1	6	3	30	5	1	1	12	21	21	43	158
TOTAL	149	80	67	47	51	77	149	105	139	107	59	31	74	138	244	302	1821

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

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																	5
1.01- 3.50	0	4	1	4	2	3	1	4	1	0	2	0	1	1	1	2	27
3.51- 7.50	17	7	3	9	5	5	9	10	5	10	13	6	4	3	7	10	123
7.51-12.50	19	13	5	4	1	4	20	26	16	42	23	3	6	13	30	43	268
12.51-18.50	17	5	3	0	5	11	37	43	58	45	14	7	7	14	33	41	340
18.51-24.00	4	0	0	1	0	12	20	20	53	8	10	6	17	28	26	20	225
>24.00	0	0	0	0	0	2	15	10	16	2	0	2	4	13	8	2	74
TOTAL	57	29	12	18	13	37	102	113	149	107	62	24	39	72	105	118	1062

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	1	1	3	1	5	2	0	1	1	1	1	1	0	1	22
3.51- 7.50	7	5	3	2	7	3	5	8	2	12	8	2	4	1	2	5	76
7.51-12.50	5	3	4	1	2	7	6	12	25	22	14	4	8	12	11	10	146
12.51-18.50	0	1	1	0	1	6	5	30	34	29	13	6	7	4	9	8	154
18.51-24.00	0	0	0	0	0	0	3	2	2	0	3	1	5	5	3	0	24
>24.00	0	0	0	0	0	0	0	0	0	0	0	3	0	6	3	0	12
TOTAL	12	12	9	4	13	17	24	54	63	64	39	17	25	29	28	24	434

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

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	2	0	1	4	3	3	1	1	0	1	0	1	0	0	2	0	19
3.51- 7.50	3	7	4	0	1	2	3	6	3	4	1	1	2	2	0	3	42
7.51-12.50	0	1	3	3	2	1	5	4	4	13	2	0	3	4	3	1	49
12.51-18.50	0	0	0	0	0	0	2	11	4	2	3	1	1	1	2	0	27
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	8	8	7	6	6	11	22	11	20	6	3	6	7	7	4	137

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																	8
1.01- 3.50	5	14	8	12	10	14	11	10	5	5	9	6	5	6	7	5	132
3.51- 7.50	56	40	28	22	31	43	46	46	24	58	42	22	26	24	19	45	572
7.51-12.50	81	48	48	43	37	39	84	87	96	122	70	17	49	66	101	126	1114
12.51-18.50	89	31	22	13	20	57	115	118	142	105	44	19	28	55	137	161	1156
18.51-24.00	35	8	7	1	0	15	41	53	99	38	16	12	33	73	113	113	657
>24.00	20	2	0	0	0	3	25	16	54	8	1	6	17	41	38	56	287
TOTAL	286	143	113	91	98	171	322	330	420	336	182	82	158	265	415	506	3926

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 1/ 1/95 - 12/31/95

*** JAN-DEC 1995 ***

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

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 3926

TOTAL NUMBER OF MISSING OBSERVATIONS: 4834

PERCENT DATA RECOVERY FOR THIS PERIOD: 44.8 %

MEAN WIND SPEED FOR THIS PERIOD: 13.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.92	3.46	7.64	46.38	27.05	11.05	3.49

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	2	0	0	3	2	6	2	5	3	0	0	0	0	0	3	0
B	17	4	7	3	6	11	11	7	23	9	2	1	4	4	10	17	0
C	36	8	10	12	6	21	19	27	30	26	14	6	10	15	21	38	1
D	149	80	67	47	51	77	149	105	139	107	59	31	74	138	244	302	2
E	57	29	12	18	13	37	102	113	149	107	62	24	39	72	105	118	5
F	12	12	9	4	13	17	24	54	63	64	39	17	25	29	28	24	0
G	5	8	8	7	6	6	11	22	11	20	6	3	6	7	7	4	0
TOTAL	286	143	113	91	98	171	322	330	420	336	182	82	158	265	415	506	8

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

July-December 1995

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

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
95	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	7	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	8	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

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
95 8 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 8 31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95 9 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	F	F	E	E	E	E
95 9 27	E	F	F	F	F	F	E	-	-	-	-	-	-	-	-	-	-	-	F	F	F	F	F	F
95 9 28	F	F	F	F	F	F	F	E	E	D	D	B	B	B	C	B	D	D	E	E	E	E	E	D

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

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
95 9 29	D	D	D	-	-	-	-	-	-	-	-	-	A	C	C	D	D	D	E	D	D	D	D	D
95 9 30	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	D	E	E	E	E
95 10 1	E	E	F	E	E	E	F	E	D	D	D	D	C	C	B	D	E	E	F	F	F	F	F	F
95 10 2	F	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
95 10 3	F	F	F	G	G	F	E	D	D	D	D	B	C	C	D	E	E	G	G	F	F	F	F	F
95 10 4	F	F	E	E	E	E	E	E	D	D	B	A	B	A	A	C	D	D	E	E	E	E	E	D
95 10 5	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	E	E	-	-	-
95 10 6	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
95 10 7	E	E	E	F	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F	G
95 10 8	F	F	F	E	F	F	F	E	E	D	D	D	D	D	D	D	D	E	-	-	-	-	-	E
95 10 9	E	E	E	E	E	E	E	E	D	E	E	E	D	D	C	D	D	E	F	G	G	G	G	G
95 10 10	F	F	F	F	F	F	G	G	F	E	D	D	D	D	D	D	E	E	G	G	G	G	E	E
95 10 11	E	E	E	E	E	E	E	D	D	C	B	C	B	D	D	E	F	F	F	F	F	F	F	E
95 10 12	F	E	E	E	E	E	E	E	D	D	B	B	A	A	B	D	D	E	E	E	E	E	E	E
95 10 13	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
95 10 14	E	E	E	E	E	E	D	D	D	C	B	B	B	C	D	C	-	-	-	-	-	-	-	-
95 10 15	-	-	-	-	-	-	-	-	E	E	E	D	C	D	D	E	E	F	F	F	F	F	F	F
95 10 16	F	E	E	E	-	-	-	-	-	-	-	-	-	-	C	D	E	E	E	E	E	E	E	E
95 10 17	E	E	E	E	E	E	E	E	D	D	C	C	D	C	D	E	E	F	F	E	E	E	E	F
95 10 18	F	F	F	G	G	G	F	E	D	D	D	-	D	B	B	D	D	E	E	E	E	E	E	E
95 10 19	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D	E	D
95 10 20	D	D	E	E	D	E	D	D	C	C	C	C	D	C	C	D	D	D	D	E	E	E	E	E
95 10 21	F	F	F	F	E	E	E	E	D	D	C	C	B	B	C	D	E	E	F	G	G	G	G	G
95 10 22	F	F	F	F	F	E	E	E	D	D	D	B	B	A	C	D	D	E	E	E	E	E	E	E
95 10 23	E	E	F	E	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 10 24	D	D	D	D	E	E	E	E	D	D	C	C	B	B	C	D	D	E	F	F	F	F	F	F
95 10 25	F	E	F	F	F	F	F	F	E	E	D	D	D	D	D	D	-	-	-	-	-	-	-	-
95 10 26	-	-	-	-	-	-	-	G	F	E	E	D	D	D	D	D	D	E	E	F	E	E	E	E
95 10 27	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
95 10 28	E	E	D	E	E	E	E	D	D	D	C	C	B	C	C	D	-	-	-	G	G	-	-	-
95 10 29	-	-	-	G	G	G	F	E	F	E	E	-	-	-	-	-	-	-	-	-	-	-	-	D
95 10 30	D	D	D	D	D	C	C	D	D	C	D	D	D	D	C	D	D	D	D	D	D	D	-	-
95 10 31	F	F	-	-	-	-	-	-	-	-	-	-	F	F	F	G	G	G	G	G	G	G	G	G
95 11 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D
95 11 2	D	D	D	D	D	C	E	D	B	D	D	D	C	C	C	D	D	D	D	E	E	E	D	D
95 11 3	D	D	D	D	D	D	D	D	D	D	C	D	C	C	C	C	D	D	D	E	F	F	F	E
95 11 4	-	-	-	-	-	-	-	-	-	-	D	D	D	D	C	D	D	E	E	E	E	E	D	-
95 11 5	-	-	-	-	-	-	-	A	C	C	D	C	C	C	C	D	E	E	E	E	E	E	E	E
95 11 6	E	E	E	E	E	E	D	E	D	A	B	D	D	D	D	D	D	E	E	E	E	E	E	E
95 11 7	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
95 11 8	D	E	D	E	D	D	D	D	D	D	D	D	C	C	D	D	E	E	E	E	E	E	E	E
95 11 9	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	F
95 11 10	E	E	D	D	D	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-	E	E
95 11 11	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
95 11 12	E	E	E	E	E	E	E	F	E	D	D	D	D	D	E	D	E	E	E	F	F	F	F	G

PROGRAM: JFD VERSION: 5P
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JUL-DEC 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

HOURLY STABILITIES

YR MN DY	HOURS																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
95 11 13	F	E	E	E	E	E	D	D	E	E	E	E	E	D	D	D	D	-	-	-	-	-	F	F
95 11 14	F	F	F	F	F	F	F	F	F	E	E	E	D	D	D	-	-	-	-	-	-	-	-	-
95 11 15	-	-	-	-	-	-	-	-	-	C	D	C	C	D	D	D	D	D	D	D	E	E	E	E
95 11 16	E	E	E	F	E	F	F	F	E	D	D	D	C	C	D	E	E	E	E	E	E	E	F	F
95 11 17	G	G	-	-	-	-	-	-	A	A	C	D	D	D	D	D	D	D	D	D	E	F	F	F
95 11 18	F	F	F	F	F	F	E	F	E	D	D	C	C	C	D	D	E	E	E	E	E	E	E	E
95 11 19	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
95 11 20	F	G	F	F	G	F	E	F	E	D	D	D	D	D	D	D	D	E	E	E	E	E	F	F
95 11 21	F	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	F	F	G	F	F	F
95 11 22	F	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 11 23	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
95 11 24	E	F	F	E	E	E	E	E	D	D	D	C	B	C	D	D	E	F	F	F	E	E	E	F
95 11 25	F	F	G	G	F	G	G	G	G	E	E	E	D	D	D	D	E	E	E	E	E	E	F	F
95 11 26	E	E	E	E	E	F	F	G	G	E	E	D	D	D	D	E	E	E	E	E	E	D	D	D
95 11 27	D	D	D	C	C	C	D	C	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D
95 11 28	D	E	E	E	E	E	F	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E
95 11 29	E	E	E	E	E	E	E	E	E	D	D	D	D	C	D	D	E	F	F	F	G	F	F	G
95 11 30	G	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	E	F	E	F	F	F	F	F
95 12 1	G	G	F	-	-	-	-	-	-	E	E	D	D	D	D	D	D	E	F	F	F	F	F	F
95 12 2	G	G	F	E	E	E	E	E	E	D	D	A	A	A	B	C	D	D	E	E	E	E	E	E
95 12 3	E	E	F	F	F	E	F	F	F	E	E	E	D	D	D	D	E	F	F	E	-	-	-	-
95 12 4	-	-	-	-	-	-	F	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	D	E
95 12 5	E	E	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	E	-	-	-	-	-	F
95 12 6	G	F	F	F	F	E	E	E	D	D	D	D	D	C	B	C	C	D	D	D	D	D	D	D
95 12 7	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D
95 12 8	D	D	D	D	C	C	C	C	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 12 9	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	-	-	-	-	-
95 12 10	-	-	-	-	-	-	-	F	E	E	D	D	D	D	D	D	D	E	E	E	E	D	D	D
95 12 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
95 12 12	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 12 13	D	D	D	D	D	D	D	D	D	C	B	B	C	B	C	-	-	-	-	-	-	-	-	-
95 12 14	-	-	F	F	F	F	F	F	G	F	E	E	E	D	E	E	E	F	F	F	F	F	G	G
95 12 15	G	G	F	F	E	E	E	F	-	-	-	-	-	-	D	D	D	E	F	F	F	E	E	E
95 12 16	F	F	F	F	F	F	F	F	E	E	E	D	D	D	D	D	E	E	E	E	E	E	E	E
95 12 17	E	E	E	E	E	D	E	E	E	D	D	D	D	D	D	D	C	B	C	C	D	-	-	-
95 12 18	-	-	-	-	-	-	C	D	D	D	A	-	-	-	-	-	-	-	-	-	D	D	D	D
95 12 19	D	C	C	C	C	C	B	B	B	C	C	C	D	D	D	D	D	D	D	D	D	D	D	D
95 12 20	D	D	D	D	D	D	D	D	D	D	E	E	-	-	-	-	-	-	-	-	-	-	-	-
95 12 21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	C	D	D	D	D
95 12 22	D	D	D	-	-	-	-	-	D	D	A	C	D	D	D	D	D	-	-	D	D	D	D	D
95 12 23	D	D	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-
95 12 24	-	-	-	-	-	D	E	E	E	E	D	D	D	D	D	D	D	E	-	-	D	D	D	D
95 12 25	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
95 12 26	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	-	-	D	E	E	D	D	E
95 12 27	E	E	E	E	D	D	D	D	D	D	D	D	D	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 1995
 SITE IDENTIFIER: NPPD
 DATA PERIOD EXAMINED: 7/ 1/95 - 12/31/95

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
95 12 28	F	F	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95 12 29	E	E	E	D	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	D	D	D
95 12 30	D	D	D	C	C	C	C	C	B	B	C	C	B	B	B	B	B	C	D	D	D	D	D	D
95 12 31	D	D	D	D	D	D	D	B	B	B	C	C	B	B	B	B	C	C	C	C	C	C	C	C

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 1995: January-March, April-June, January-June, July-September, October-December, July-December, and January-December.

Atmospheric Diffusion Estimates

Ground Level Releases

January-March 1995

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
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	3.877E-05	1.289E-05	6.753E-06	3.343E-06	1.330E-06	7.164E-07	4.524E-07	3.150E-07	2.341E-07	1.824E-07	1.471E-07
SSW	3.411E-05	1.082E-05	5.570E-06	2.763E-06	1.133E-06	6.224E-07	3.989E-07	2.810E-07	2.109E-07	1.656E-07	1.345E-07
SW	1.534E-05	5.148E-06	2.737E-06	1.364E-06	5.452E-07	2.943E-07	1.862E-07	1.298E-07	9.654E-08	7.525E-08	6.072E-08
WSW	7.820E-06	2.676E-06	1.408E-06	6.961E-07	2.965E-07	1.580E-07	9.891E-08	6.836E-08	5.050E-08	3.911E-08	3.138E-08
W	8.511E-06	2.930E-06	1.533E-06	7.552E-07	2.756E-07	1.478E-07	9.304E-08	6.460E-08	4.790E-08	3.723E-08	2.997E-08
WNW	1.262E-05	4.220E-06	2.166E-06	1.058E-06	4.157E-07	2.219E-07	1.392E-07	9.640E-08	7.134E-08	5.535E-08	4.449E-08
NW	3.354E-05	1.130E-05	5.875E-06	2.893E-06	1.149E-06	6.180E-07	3.897E-07	2.710E-07	2.012E-07	1.566E-07	1.262E-07
NNW	4.560E-05	1.430E-05	7.425E-06	3.709E-06	1.538E-06	8.512E-07	5.485E-07	3.880E-07	2.922E-07	2.301E-07	1.874E-07
N	8.168E-05	2.525E-05	1.320E-05	6.638E-06	2.764E-06	1.534E-06	9.901E-07	7.013E-07	5.287E-07	4.167E-07	3.395E-07
NNE	5.017E-05	1.565E-05	8.294E-06	4.188E-06	1.726E-06	9.515E-07	6.112E-07	4.313E-07	3.241E-07	2.547E-07	2.071E-07
NE	2.805E-05	8.815E-06	4.616E-06	2.313E-06	9.508E-07	5.232E-07	3.357E-07	2.367E-07	1.778E-07	1.397E-07	1.135E-07
ENE	8.820E-06	2.840E-06	1.505E-06	7.532E-07	3.027E-07	1.641E-07	1.041E-07	7.273E-08	5.422E-08	4.233E-08	3.421E-08
E	1.335E-05	4.556E-06	2.468E-06	1.241E-06	4.945E-07	2.662E-07	1.679E-07	1.168E-07	8.669E-08	6.743E-08	5.431E-08
ESE	2.069E-05	6.940E-06	3.842E-06	1.958E-06	7.835E-07	4.229E-07	2.674E-07	1.862E-07	1.384E-07	1.078E-07	8.690E-08
SE	4.473E-05	1.542E-05	8.243E-06	4.107E-06	1.630E-06	8.757E-07	5.518E-07	3.834E-07	2.844E-07	2.211E-07	1.780E-07
SSE	6.454E-05	2.147E-05	1.152E-05	5.782E-06	2.322E-06	1.258E-06	7.975E-07	5.569E-07	4.149E-07	3.237E-07	2.615E-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	1.219E-07	6.307E-08	4.111E-08	2.382E-08	1.627E-08	1.214E-08	9.571E-09	7.835E-09	6.594E-09	5.666E-09	4.949E-09
SSW	1.122E-07	5.933E-08	3.926E-08	2.320E-08	1.605E-08	1.209E-08	9.599E-09	7.908E-09	6.691E-09	5.776E-09	5.067E-09
SW	5.034E-08	2.606E-08	1.699E-08	9.833E-09	6.710E-09	4.999E-09	3.936E-09	3.219E-09	2.706E-09	2.323E-09	2.028E-09
WSW	2.479E-08	1.273E-08	8.248E-09	4.736E-09	3.212E-09	2.383E-09	1.870E-09	1.525E-09	1.279E-09	1.096E-09	9.548E-10
W	2.589E-08	1.315E-08	8.452E-09	4.799E-09	3.229E-09	2.380E-09	1.859E-09	1.510E-09	1.262E-09	1.078E-09	9.367E-10
WNW	3.679E-08	1.891E-08	1.227E-08	7.066E-09	4.809E-09	3.578E-09	2.815E-09	2.302E-09	1.935E-09	1.661E-09	1.450E-09
NW	1.045E-07	5.383E-08	3.498E-08	2.018E-08	1.375E-08	1.023E-08	8.055E-09	6.585E-09	5.535E-09	4.752E-09	4.148E-09
NNW	1.566E-07	8.345E-08	5.548E-08	3.298E-08	2.289E-08	1.728E-08	1.375E-08	1.134E-08	9.608E-09	8.302E-09	7.288E-09
N	2.839E-07	1.515E-07	1.008E-07	6.001E-08	4.168E-08	3.147E-08	2.505E-08	2.066E-08	1.750E-08	1.513E-08	1.328E-08
NNE	1.728E-07	9.164E-08	6.071E-08	3.591E-08	2.484E-08	1.870E-08	1.485E-08	1.223E-08	1.034E-08	8.920E-09	7.820E-09
NE	9.468E-08	5.019E-08	3.324E-08	1.966E-08	1.361E-08	1.025E-08	8.138E-09	6.703E-09	5.670E-09	4.894E-09	4.292E-09
ENE	2.841E-08	1.480E-08	9.692E-09	5.650E-09	3.878E-09	2.902E-09	2.293E-09	1.881E-09	1.586E-09	1.364E-09	1.193E-09
E	4.494E-08	2.306E-08	1.493E-08	8.555E-09	5.788E-09	4.283E-09	3.354E-09	2.729E-09	2.285E-09	1.954E-09	1.700E-09
ESE	7.197E-08	3.708E-08	2.407E-08	1.383E-08	9.365E-09	6.935E-09	5.432E-09	4.422E-09	3.702E-09	3.166E-09	2.754E-09
SE	1.473E-07	7.567E-08	4.904E-08	2.815E-08	1.908E-08	1.414E-08	1.109E-08	9.034E-09	7.571E-09	6.482E-09	5.643E-09
SSE	2.169E-07	1.126E-07	7.348E-08	4.260E-08	2.908E-08	2.168E-08	1.707E-08	1.396E-08	1.174E-08	1.008E-08	8.793E-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	6.600E-06	1.505E-06	4.679E-07	2.375E-07	1.482E-07	6.638E-08	2.431E-08	1.222E-08	7.858E-09	5.675E-09
SSW	5.490E-06	1.268E-06	4.113E-07	2.137E-07	1.355E-07	6.215E-08	2.359E-08	1.215E-08	7.927E-09	5.784E-09
SW	2.663E-06	6.157E-07	1.924E-07	9.792E-08	6.118E-08	2.742E-08	1.003E-08	5.030E-09	3.229E-09	2.327E-09
WSW	1.373E-06	3.122E-07	9.627E-08	4.861E-08	3.020E-08	1.342E-08	4.839E-09	2.399E-09	1.530E-09	1.098E-09
W	1.498E-06	3.369E-07	1.024E-07	5.126E-08	3.164E-08	1.389E-08	4.913E-09	2.398E-09	1.515E-09	1.080E-09
WNW	2.130E-06	4.724E-07	1.441E-07	7.241E-08	4.486E-08	1.993E-08	7.219E-09	3.601E-09	2.309E-09	1.664E-09
NW	5.756E-06	1.301E-06	4.031E-07	2.042E-07	1.271E-07	5.670E-08	2.061E-08	1.030E-08	6.605E-09	4.760E-09
NNW	7.301E-06	1.715E-06	5.650E-07	2.959E-07	1.886E-07	8.728E-08	3.350E-08	1.736E-08	1.137E-08	8.314E-09
N	1.296E-05	3.078E-06	1.020E-06	5.354E-07	3.418E-07	1.584E-07	6.093E-08	3.162E-08	2.071E-08	1.515E-08
NNE	8.103E-06	1.929E-06	6.300E-07	3.283E-07	2.085E-07	9.593E-08	3.650E-08	1.889E-08	1.226E-08	8.932E-09
NE	4.526E-06	1.063E-06	3.461E-07	1.801E-07	1.143E-07	5.255E-08	1.999E-08	1.030E-08	6.720E-09	4.901E-09
ENE	1.467E-06	3.412E-07	1.075E-07	5.498E-08	3.447E-08	1.556E-08	5.761E-09	2.919E-09	1.886E-09	1.366E-09
E	2.387E-06	5.590E-07	1.737E-07	8.795E-08	5.472E-08	2.431E-08	8.742E-09	4.312E-09	2.738E-09	1.958E-09
ESE	3.693E-06	8.842E-07	2.764E-07	1.404E-07	8.756E-08	3.905E-08	1.412E-08	6.982E-09	4.436E-09	3.172E-09
SE	8.000E-06	1.845E-06	5.708E-07	2.886E-07	1.794E-07	7.976E-08	2.876E-08	1.424E-08	9.063E-09	6.494E-09
SSE	1.118E-05	2.618E-06	8.240E-07	4.207E-07	2.634E-07	1.184E-07	4.346E-08	2.181E-08	1.400E-08	1.009E-08

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
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	3.872E-05	1.285E-05	6.726E-06	3.325E-06	1.320E-06	7.084E-07	4.460E-07	3.096E-07	2.294E-07	1.781E-07	1.432E-07
SSW	3.404E-05	1.078E-05	5.538E-06	2.741E-06	1.115E-06	6.124E-07	3.908E-07	2.741E-07	2.048E-07	1.601E-07	1.295E-07
SW	1.531E-05	5.132E-06	2.723E-06	1.356E-06	5.598E-07	2.903E-07	1.830E-07	1.271E-07	9.420E-08	7.315E-08	5.881E-08
WSW	7.808E-06	2.668E-06	1.402E-06	6.920E-07	2.731E-07	1.460E-07	9.162E-08	6.341E-08	4.687E-08	3.631E-08	2.913E-08
W	8.500E-06	2.924E-06	1.528E-06	7.518E-07	2.943E-07	1.564E-07	9.769E-08	6.734E-08	4.960E-08	3.831E-08	3.066E-08
WNW	1.260E-05	4.210E-06	2.158E-06	1.053E-06	4.127E-07	2.196E-07	1.374E-07	9.489E-08	7.002E-08	5.417E-08	4.341E-08
NW	3.350E-05	1.128E-05	5.855E-06	2.880E-06	1.141E-06	6.119E-07	3.848E-07	2.668E-07	1.976E-07	1.533E-07	1.231E-07
NNW	4.551E-05	1.424E-05	7.381E-06	3.681E-06	1.520E-06	8.376E-07	5.375E-07	3.786E-07	2.839E-07	2.227E-07	1.805E-07
N	8.153E-05	2.516E-05	1.313E-05	6.591E-06	2.734E-06	1.511E-06	9.718E-07	6.857E-07	5.149E-07	4.043E-07	3.281E-07
NNE	5.007E-05	1.559E-05	8.251E-06	4.159E-06	1.708E-06	9.379E-07	6.002E-07	4.219E-07	3.159E-07	2.474E-07	2.003E-07
NE	2.799E-05	8.780E-06	4.589E-06	2.295E-06	9.394E-07	5.147E-07	3.288E-07	2.309E-07	1.726E-07	1.350E-07	1.093E-07
ENE	8.807E-06	2.832E-06	1.498E-06	7.489E-07	3.000E-07	1.621E-07	1.025E-07	7.139E-08	5.304E-08	4.128E-08	3.325E-08
E	1.333E-05	4.545E-06	2.459E-06	1.235E-06	4.911E-07	2.637E-07	1.659E-07	1.151E-07	8.521E-08	6.611E-08	5.311E-08
ESE	2.067E-05	6.923E-06	3.828E-06	1.948E-06	7.773E-07	4.184E-07	2.638E-07	1.832E-07	1.358E-07	1.054E-07	8.476E-08
SE	4.467E-05	1.538E-05	8.216E-06	4.089E-06	1.619E-06	8.675E-07	5.452E-07	3.778E-07	2.796E-07	2.168E-07	1.741E-07
SSE	6.444E-05	2.141E-05	1.147E-05	5.749E-06	2.303E-06	1.243E-06	7.857E-07	5.469E-07	4.062E-07	3.159E-07	2.543E-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	1.183E-07	6.027E-08	3.867E-08	2.171E-08	1.439E-08	1.042E-08	7.976E-09	6.345E-09	5.192E-09	4.341E-09	3.691E-09
SSW	1.075E-07	5.562E-08	3.600E-08	2.037E-08	1.351E-08	9.758E-09	7.444E-09	5.896E-09	4.801E-09	3.992E-09	3.377E-09
SW	4.858E-08	2.469E-08	1.580E-08	8.813E-09	5.799E-09	4.169E-09	3.170E-09	2.504E-09	2.035E-09	1.690E-09	1.428E-09
WSW	2.401E-08	1.213E-08	7.729E-09	4.293E-09	2.817E-09	2.023E-09	1.538E-09	1.215E-09	9.882E-10	8.213E-10	6.945E-10
W	2.522E-08	1.263E-08	8.004E-09	4.417E-09	2.888E-09	2.070E-09	1.572E-09	1.242E-09	1.011E-09	8.410E-10	7.121E-10
WNW	3.579E-08	1.812E-08	1.158E-08	6.469E-09	4.273E-09	3.087E-09	2.360E-09	1.876E-09	1.534E-09	1.282E-09	1.090E-09
NW	1.017E-07	5.161E-08	3.303E-08	1.849E-08	1.223E-08	8.839E-09	6.760E-09	5.374E-09	4.395E-09	3.674E-09	3.124E-09
NNW	1.502E-07	7.838E-08	5.103E-08	2.910E-08	1.940E-08	1.409E-08	1.079E-08	8.577E-09	7.007E-09	5.846E-09	4.960E-09
N	2.733E-07	1.431E-07	9.341E-08	5.353E-08	3.584E-08	2.612E-08	2.009E-08	1.603E-08	1.314E-08	1.101E-08	9.370E-09
NNE	1.665E-07	8.666E-08	5.635E-08	3.213E-08	2.145E-08	1.560E-08	1.198E-08	9.547E-09	7.822E-09	6.544E-09	5.568E-09
NE	9.077E-08	4.709E-08	3.054E-08	1.732E-08	1.151E-08	8.329E-09	6.365E-09	5.049E-09	4.118E-09	3.430E-09	2.905E-09
ENE	2.752E-08	1.410E-08	9.084E-09	5.126E-09	3.409E-09	2.475E-09	1.898E-09	1.513E-09	1.240E-09	1.038E-09	8.840E-10
E	4.383E-08	2.220E-08	1.419E-08	7.920E-09	5.222E-09	3.767E-09	2.877E-09	2.284E-09	1.867E-09	1.559E-09	1.325E-09
ESE	7.000E-08	3.556E-08	2.276E-08	1.271E-08	8.380E-09	6.043E-09	4.612E-09	3.660E-09	2.989E-09	2.495E-09	2.118E-09
SE	1.436E-07	7.279E-08	4.653E-08	2.598E-08	1.714E-08	1.237E-08	9.450E-09	7.505E-09	6.134E-09	5.123E-09	4.354E-09
SSE	2.104E-07	1.074E-07	6.899E-08	3.874E-08	2.563E-08	1.853E-08	1.416E-08	1.125E-08	9.193E-09	7.676E-09	6.520E-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	6.576E-06	1.494E-06	4.614E-07	2.328E-07	1.443E-07	6.357E-08	2.223E-08	1.050E-08	6.372E-09	4.352E-09
SSW	5.460E-06	1.254E-06	4.032E-07	2.076E-07	1.304E-07	5.843E-08	2.079E-08	9.832E-09	5.921E-09	4.004E-09
SW	2.651E-06	6.102E-07	1.893E-07	9.558E-08	5.927E-08	2.605E-08	9.025E-09	4.204E-09	2.516E-09	1.695E-09
WSW	1.568E-06	3.097E-07	9.484E-08	4.757E-08	2.936E-08	1.281E-08	4.400E-09	2.041E-09	1.221E-09	8.238E-10
W	1.493E-06	3.347E-07	1.012E-07	5.037E-08	3.091E-08	1.337E-08	4.534E-09	2.089E-09	1.248E-09	8.436E-10
WNW	2.123E-06	4.693E-07	1.423E-07	7.108E-08	4.378E-08	1.914E-08	6.629E-09	3.113E-09	1.884E-09	1.286E-09
NW	5.738E-06	1.292E-06	3.982E-07	2.005E-07	1.241E-07	5.447E-08	1.894E-08	8.911E-09	5.397E-09	3.684E-09
NNW	7.261E-06	1.697E-06	5.540E-07	2.876E-07	1.818E-07	8.219E-08	2.967E-08	1.419E-08	8.611E-09	5.862E-09
N	1.290E-05	3.048E-06	1.001E-06	5.216E-07	3.304E-07	1.499E-07	5.453E-08	2.630E-08	1.609E-08	1.103E-08
NNE	8.063E-06	1.910E-06	6.190E-07	3.201E-07	2.017E-07	9.094E-08	3.277E-08	1.571E-08	9.585E-09	6.561E-09
NE	4.501E-06	1.052E-06	3.392E-07	1.749E-07	1.101E-07	4.944E-08	1.767E-08	8.391E-09	5.070E-09	3.439E-09
ENE	1.461E-06	3.385E-07	1.059E-07	5.380E-08	3.351E-08	1.485E-08	5.243E-09	2.493E-09	1.519E-09	1.041E-09
E	2.379E-06	5.554E-07	1.717E-07	8.647E-08	5.352E-08	2.345E-08	8.114E-09	3.799E-09	2.295E-09	1.563E-09
ESE	3.680E-06	8.778E-07	2.728E-07	1.378E-07	8.542E-08	3.752E-08	1.302E-08	6.094E-09	3.676E-09	2.502E-09
SE	7.975E-06	1.834E-06	5.642E-07	2.837E-07	1.755E-07	7.686E-08	2.662E-08	1.247E-08	7.538E-09	5.138E-09
SSE	1.114E-05	2.598E-06	8.122E-07	4.120E-07	2.563E-07	1.132E-07	3.964E-08	1.868E-08	1.130E-08	7.698E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

SECTOR	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)										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	5.000	5.500	6.000	6.500	7.000	7.500	8.000	8.500	9.000
S	3.668E-05	1.176E-05	6.011E-06	2.922E-06	1.127E-06	5.914E-07	3.650E-07	2.490E-07	1.816E-07	1.390E-07	1.103E-07									
SSW	3.226E-05	9.872E-06	4.956E-06	2.413E-06	9.588E-07	5.130E-07	3.213E-07	2.216E-07	1.632E-07	1.259E-07	1.006E-07									
SW	1.451E-05	4.697E-06	2.435E-06	1.192E-06	4.617E-07	2.428E-07	1.501E-07	1.025E-07	7.481E-08	5.730E-08	4.549E-08									
WSW	7.398E-06	2.442E-06	1.253E-06	6.083E-07	2.334E-07	1.220E-07	7.504E-08	5.104E-08	3.715E-08	2.838E-08	2.247E-08									
W	8.052E-06	2.674E-06	1.365E-06	6.602E-07	2.513E-07	1.304E-07	7.984E-08	5.407E-08	3.920E-08	2.985E-08	2.357E-08									
WNW	1.194E-05	3.851E-06	1.928E-06	9.252E-07	3.523E-07	1.832E-07	1.123E-07	7.622E-08	5.537E-08	4.223E-08	3.340E-08									
NW	3.173E-05	1.032E-05	5.230E-06	2.529E-06	9.741E-07	5.103E-07	3.146E-07	2.143E-07	1.562E-07	1.195E-07	9.473E-08									
NNW	4.313E-05	1.304E-05	6.606E-06	3.240E-06	1.302E-06	7.016E-07	4.418E-07	3.061E-07	2.262E-07	1.750E-07	1.402E-07									
N	7.726E-05	2.303E-05	1.175E-05	5.799E-06	2.340E-06	1.265E-06	7.978E-07	5.535E-07	4.094E-07	3.171E-07	2.542E-07									
NNE	4.745E-05	1.427E-05	7.380E-06	3.658E-06	1.462E-06	7.847E-07	4.926E-07	3.404E-07	2.510E-07	1.939E-07	1.551E-07									
NE	2.653E-05	8.041E-06	4.107E-06	2.020E-06	8.047E-07	4.312E-07	2.703E-07	1.867E-07	1.375E-07	1.062E-07	8.488E-08									
ENE	8.344E-06	2.591E-06	1.339E-06	6.582E-07	2.564E-07	1.354E-07	8.395E-08	5.746E-08	4.204E-08	3.226E-08	2.566E-08									
E	1.263E-05	4.158E-06	2.197E-06	1.085E-06	4.192E-07	2.198E-07	1.356E-07	9.237E-08	6.731E-08	5.147E-08	4.080E-08									
ESE	1.958E-05	6.333E-06	3.420E-06	1.711E-06	6.639E-07	3.491E-07	2.157E-07	1.472E-07	1.074E-07	8.222E-08	6.523E-08									
SE	4.231E-05	1.407E-05	7.339E-06	3.591E-06	1.382E-06	7.232E-07	4.455E-07	3.033E-07	2.208E-07	1.688E-07	1.337E-07									
SSE	6.106E-05	1.959E-05	1.025E-05	5.053E-06	1.968E-06	1.038E-06	6.433E-07	4.400E-07	3.218E-07	2.468E-07	1.961E-07									

BEARING	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)										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	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000
S	9.008E-08	4.389E-08	2.713E-08	1.441E-08	9.164E-09	6.417E-09	4.776E-09	3.708E-09	2.969E-09	2.434E-09	2.033E-09									
SSW	8.260E-08	4.106E-08	2.572E-08	1.388E-08	8.904E-09	6.271E-09	4.686E-09	3.648E-09	2.926E-09	2.402E-09	2.008E-09									
SW	3.715E-08	1.809E-08	1.118E-08	5.923E-09	3.754E-09	2.621E-09	1.946E-09	1.507E-09	1.203E-09	9.841E-10	8.199E-10									
WSW	1.831E-08	8.849E-09	5.439E-09	2.862E-09	1.805E-09	1.256E-09	9.304E-10	7.192E-10	5.737E-10	4.687E-10	3.903E-10									
W	1.915E-08	9.161E-09	5.590E-09	2.913E-09	1.824E-09	1.263E-09	9.319E-10	7.182E-10	5.714E-10	4.659E-10	3.873E-10									
WNW	2.721E-08	1.317E-08	8.105E-09	4.281E-09	2.711E-09	1.893E-09	1.407E-09	1.091E-09	8.723E-10	7.145E-10	5.963E-10									
NW	7.726E-08	3.749E-08	2.311E-08	1.223E-08	7.752E-09	5.416E-09	4.025E-09	3.120E-09	2.496E-09	2.044E-09	1.705E-09									
NNW	1.153E-07	5.778E-08	3.638E-08	1.977E-08	1.273E-08	8.991E-09	6.735E-09	5.254E-09	4.223E-09	3.472E-09	2.906E-09									
N	2.093E-07	1.051E-07	6.626E-08	3.608E-08	2.327E-08	1.646E-08	1.235E-08	9.643E-09	7.759E-09	6.386E-09	5.352E-09									
NNE	1.275E-07	6.357E-08	3.991E-08	2.161E-08	1.389E-08	9.797E-09	7.333E-09	5.718E-09	4.594E-09	3.776E-09	3.161E-09									
NE	6.973E-08	3.474E-08	2.179E-08	1.178E-08	7.561E-09	5.328E-09	3.983E-09	3.102E-09	2.489E-09	2.044E-09	1.709E-09									
ENE	2.098E-08	1.029E-08	6.390E-09	3.414E-09	2.179E-09	1.530E-09	1.141E-09	8.876E-10	7.117E-10	5.841E-10	4.883E-10									
E	3.326E-08	1.608E-08	9.885E-09	5.201E-09	3.279E-09	2.281E-09	1.689E-09	1.306E-09	1.042E-09	8.512E-10	7.089E-10									
ESE	5.323E-08	2.583E-08	1.591E-08	8.389E-09	5.292E-09	3.683E-09	2.727E-09	2.107E-09	1.681E-09	1.373E-09	1.143E-09									
SE	1.090E-07	5.275E-08	3.245E-08	1.710E-08	1.079E-08	7.516E-09	5.569E-09	4.308E-09	3.438E-09	2.811E-09	2.342E-09									
SSE	1.603E-07	7.830E-08	4.847E-08	2.576E-08	1.636E-08	1.144E-08	8.505E-09	6.595E-09	5.274E-09	4.319E-09	3.603E-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	5.915E-06	1.288E-06	3.790E-07	1.847E-07	1.113E-07	4.671E-08	1.491E-08	6.493E-09	3.732E-09	2.444E-09
SSW	4.918E-06	1.084E-06	3.325E-07	1.657E-07	1.014E-07	4.347E-08	1.430E-08	6.339E-09	3.670E-09	2.411E-09
SW	2.385E-06	5.267E-07	1.557E-07	7.604E-08	4.590E-08	1.925E-08	6.126E-09	2.653E-09	1.517E-09	9.882E-10
WSW	1.231E-06	2.672E-07	7.795E-08	3.778E-08	2.268E-08	9.436E-09	2.965E-09	1.272E-09	7.241E-10	4.708E-10
W	1.343E-06	2.884E-07	8.303E-08	3.989E-08	2.379E-08	9.794E-09	3.024E-09	1.280E-09	7.233E-10	4.681E-10
WNW	1.910E-06	4.045E-07	1.168E-07	5.632E-08	3.373E-08	1.404E-08	4.433E-09	1.917E-09	1.098E-09	7.175E-10
NW	5.160E-06	1.113E-06	3.267E-07	1.588E-07	9.559E-08	3.994E-08	1.266E-08	5.482E-09	3.141E-09	2.052E-09
NNW	6.540E-06	1.466E-06	4.568E-07	2.295E-07	1.413E-07	6.106E-08	2.033E-08	9.085E-09	5.285E-09	3.485E-09
N	1.161E-05	2.631E-06	8.246E-07	4.154E-07	2.562E-07	1.110E-07	3.709E-08	1.663E-08	9.698E-09	6.410E-09
NNE	7.258E-06	1.649E-06	5.096E-07	2.548E-07	1.564E-07	6.725E-08	2.224E-08	9.902E-09	5.751E-09	3.791E-09
NE	4.054E-06	9.088E-07	2.798E-07	1.396E-07	8.558E-08	3.676E-08	1.213E-08	5.385E-09	3.120E-09	2.052E-09
ENE	1.315E-06	2.919E-07	8.707E-08	4.272E-08	2.588E-08	1.093E-08	3.526E-09	1.548E-09	8.931E-10	5.864E-10
E	2.139E-06	4.785E-07	1.408E-07	6.844E-08	4.117E-08	1.715E-08	5.388E-09	2.311E-09	1.315E-09	8.549E-10
ESE	3.308E-06	7.568E-07	2.239E-07	1.092E-07	6.582E-08	2.751E-08	8.684E-09	3.729E-09	2.122E-09	1.379E-09
SE	7.169E-06	1.580E-06	4.626E-07	2.246E-07	1.350E-07	5.623E-08	1.771E-08	7.611E-09	4.337E-09	2.823E-09
SSE	1.002E-05	2.240E-06	6.673E-07	3.270E-07	1.979E-07	8.326E-08	2.663E-08	1.158E-08	6.637E-09	4.337E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

***** RELATIVE DEPOSITION PER UNIT AREA (MM*-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
S	2.136E-07	7.224E-03	3.709E-08	1.763E-08	6.334E-09	3.141E-09	1.850E-09	1.211E-09	8.522E-10	6.315E-10
SSW	9.745E-08	3.295E-08	1.692E-08	8.044E-09	2.889E-09	1.433E-09	8.437E-10	5.524E-10	3.887E-10	2.881E-10
SW	4.790E-08	1.620E-08	8.316E-09	3.954E-09	1.420E-09	7.043E-10	4.147E-10	2.715E-10	1.911E-10	1.416E-10
WSW	3.360E-08	1.136E-08	5.834E-09	2.774E-09	9.963E-10	4.941E-10	2.909E-10	1.905E-10	1.340E-10	9.934E-11
W	4.981E-08	1.685E-08	8.649E-09	4.112E-09	1.477E-09	7.325E-10	4.313E-10	2.824E-10	1.987E-10	1.473E-10
WNW	8.018E-08	2.711E-08	1.392E-08	6.618E-09	2.377E-09	1.179E-09	6.942E-10	4.545E-10	3.198E-10	2.370E-10
NW	2.200E-07	7.439E-08	3.820E-08	1.816E-08	6.523E-09	3.235E-09	1.905E-09	1.247E-09	8.776E-10	6.504E-10
NNW	1.260E-07	4.260E-08	2.188E-08	1.040E-08	3.736E-09	1.853E-09	1.091E-09	7.143E-10	5.026E-10	3.725E-10
N	2.428E-07	8.211E-08	4.216E-08	2.004E-08	7.200E-09	3.571E-09	2.102E-09	1.377E-09	9.687E-10	7.179E-10
NNE	1.650E-07	5.578E-08	2.864E-08	1.362E-08	4.891E-09	2.425E-09	1.428E-09	9.351E-10	6.580E-10	4.876E-10
NE	7.567E-08	2.559E-08	1.314E-08	6.246E-09	2.244E-09	1.113E-09	6.552E-10	4.290E-10	3.019E-10	2.237E-10
ENE	4.563E-08	1.543E-08	7.923E-09	3.767E-09	1.353E-09	6.710E-10	3.951E-10	2.587E-10	1.820E-10	1.349E-10
E	7.258E-08	2.454E-08	1.260E-08	5.991E-09	2.152E-09	1.067E-09	6.284E-10	4.115E-10	2.895E-10	2.146E-10
ESE	1.151E-07	3.891E-08	1.998E-08	9.497E-09	3.411E-09	1.692E-09	9.962E-10	6.523E-10	4.590E-10	3.401E-10
SE	3.001E-07	1.015E-07	5.210E-08	2.477E-08	8.897E-09	4.412E-09	2.598E-09	1.701E-09	1.197E-09	8.871E-10
SSE	3.680E-07	1.244E-07	6.389E-08	3.038E-08	1.091E-08	5.411E-09	3.186E-09	2.086E-09	1.468E-09	1.088E-09

DIRECTION FROM SITE	DISTANCES IN MILES									
	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	50.00
S	3.866E-10	1.718E-10	1.040E-10	5.259E-11	3.183E-11	2.134E-11	1.529E-11	1.148E-11	8.928E-12	7.132E-12
SSW	1.764E-10	7.835E-11	4.746E-11	2.399E-11	1.452E-11	9.735E-12	6.975E-12	5.238E-12	4.073E-12	3.253E-12
SW	8.669E-11	3.851E-11	2.333E-11	1.179E-11	7.136E-12	4.785E-12	3.429E-12	2.574E-12	2.002E-12	1.599E-12
WSW	6.082E-11	2.702E-11	1.637E-11	8.272E-12	5.007E-12	3.357E-12	2.405E-12	1.806E-12	1.404E-12	1.122E-12
W	9.016E-11	4.005E-11	2.426E-11	1.226E-11	7.422E-12	4.973E-12	3.566E-12	2.678E-12	2.082E-12	1.663E-12
WNW	1.451E-10	6.446E-11	3.905E-11	1.974E-11	1.195E-11	8.009E-12	5.739E-12	4.310E-12	3.351E-12	2.677E-12
NW	3.982E-10	1.769E-10	1.071E-10	5.416E-11	3.278E-11	2.198E-11	1.575E-11	1.182E-11	9.194E-12	7.344E-12
NNW	2.280E-10	1.013E-10	6.136E-11	3.102E-11	1.877E-11	1.259E-11	9.019E-12	6.772E-12	5.265E-12	4.206E-12
N	4.395E-10	1.952E-10	1.183E-10	5.978E-11	3.618E-11	2.426E-11	1.738E-11	1.305E-11	1.015E-11	8.107E-12
NNE	2.985E-10	1.326E-10	8.034E-11	4.061E-11	2.458E-11	1.648E-11	1.181E-11	8.866E-12	6.894E-12	5.507E-12
NE	1.370E-10	6.084E-11	3.686E-11	1.863E-11	1.127E-11	7.560E-12	5.417E-12	4.067E-12	3.163E-12	2.526E-12
ENE	8.259E-11	3.669E-11	2.223E-11	1.123E-11	6.799E-12	4.559E-12	3.267E-12	2.453E-12	1.907E-12	1.523E-12
E	1.314E-10	5.836E-11	3.535E-11	1.787E-11	1.081E-11	7.251E-12	5.196E-12	3.901E-12	3.033E-12	2.423E-12
ESE	2.082E-10	9.251E-11	5.604E-11	2.832E-11	1.714E-11	1.149E-11	8.236E-12	6.184E-12	4.808E-12	3.841E-12
SE	5.431E-10	2.413E-10	1.462E-10	7.387E-11	4.471E-11	2.998E-11	2.148E-11	1.613E-11	1.254E-11	1.002E-11
SSE	6.660E-10	2.959E-10	1.792E-10	9.059E-11	5.483E-11	3.676E-11	2.634E-11	1.978E-11	1.538E-11	1.229E-11

***** RELATIVE DEPOSITION PER UNIT AREA (MM*-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	3.625E-08	7.426E-09	1.939E-09	8.707E-10	4.925E-10	1.894E-10	5.480E-11	2.172E-11	1.160E-11	7.178E-12
SSW	1.654E-08	3.387E-09	8.843E-10	3.972E-10	2.247E-10	8.640E-11	2.500E-11	9.907E-12	5.290E-12	3.275E-12
SW	8.128E-09	1.665E-09	4.346E-10	1.952E-10	1.104E-10	4.247E-11	1.229E-11	4.869E-12	2.600E-12	1.609E-12
WSW	5.703E-09	1.168E-09	3.049E-10	1.370E-10	7.748E-11	2.979E-11	8.620E-12	3.416E-12	1.824E-12	1.129E-12
W	8.454E-09	1.732E-09	4.521E-10	2.030E-10	1.149E-10	4.417E-11	1.278E-11	5.064E-12	2.704E-12	1.674E-12
WNW	1.361E-08	2.787E-09	7.276E-10	3.268E-10	1.849E-10	7.109E-11	2.057E-11	8.151E-12	4.353E-12	2.694E-12
NW	3.733E-08	7.647E-09	1.996E-09	8.966E-10	5.072E-10	1.951E-10	5.643E-11	2.237E-11	1.194E-11	7.393E-12
NNW	2.138E-08	4.380E-09	1.143E-09	5.135E-10	2.905E-10	1.117E-10	3.232E-11	1.281E-11	6.840E-12	4.234E-12
N	4.121E-08	8.441E-09	2.204E-09	9.897E-10	5.599E-10	2.153E-10	6.229E-11	2.469E-11	1.318E-11	8.160E-12
NNE	2.799E-08	5.734E-09	1.497E-09	6.723E-10	3.803E-10	1.463E-10	4.231E-11	1.677E-11	8.955E-12	5.543E-12
NE	1.284E-08	2.630E-09	6.867E-10	3.084E-10	1.745E-10	6.710E-11	1.941E-11	7.693E-12	4.108E-12	2.543E-12
ENE	7.744E-09	1.586E-09	4.141E-10	1.860E-10	1.052E-10	4.046E-11	1.171E-11	4.639E-12	2.477E-12	1.533E-12
E	1.232E-08	2.523E-09	6.587E-10	2.958E-10	1.674E-10	6.143E-11	1.862E-11	7.379E-12	3.940E-12	2.439E-12
ESE	1.953E-08	4.000E-09	1.044E-09	4.689E-10	2.653E-10	1.020E-10	2.951E-11	1.170E-11	6.246E-12	3.866E-12
SE	5.093E-08	1.043E-08	2.723E-09	1.223E-09	6.919E-10	2.661E-10	7.697E-11	3.051E-11	1.629E-11	1.008E-11
SSE	6.245E-08	1.279E-08	3.340E-09	1.500E-09	8.485E-10	3.263E-10	9.439E-11	3.741E-11	1.998E-11	1.237E-11

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q			D/Q (PER SQ.METER)
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	5.785E-06	5.785E-06	5.130E-06	3.154E-08
A	SITE BOUNDARY	SSW	0.82	1327.	4.417E-06	4.389E-06	3.907E-06	1.328E-08
A	SITE BOUNDARY	SW	0.98	1569.	1.447E-06	1.438E-06	1.266E-06	4.219E-09
A	SITE BOUNDARY	WSW	0.93	1489.	8.389E-07	8.343E-07	7.369E-07	3.389E-09
A	SITE BOUNDARY	W	0.91	1468.	9.438E-07	9.398E-07	8.301E-07	5.213E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.237E-06	1.232E-06	1.086E-06	7.812E-09
A	SITE BOUNDARY	NW	0.81	1307.	4.834E-06	4.816E-06	4.283E-06	3.119E-08
A	SITE BOUNDARY	NNW	0.69	1106.	8.515E-06	8.470E-06	7.614E-06	2.533E-08
A	SITE BOUNDARY	N	0.67	1086.	1.554E-05	1.547E-05	1.391E-05	5.035E-08
A	SITE BOUNDARY	NNE	0.60	965.	1.172E-05	1.167E-05	1.057E-05	4.144E-08
A	SITE BOUNDARY	NE	0.62	1005.	6.140E-06	6.110E-06	5.518E-06	1.787E-08
A	SITE BOUNDARY	ENE	0.59	945.	2.198E-06	2.191E-06	1.985E-06	1.187E-08
A	SITE BOUNDARY	E	0.53	845.	4.220E-06	4.210E-06	3.840E-06	2.266E-08
A	SITE BOUNDARY	ESE	0.54	865.	6.192E-06	6.175E-06	5.625E-06	3.458E-08
A	SITE BOUNDARY	SE	0.65	1046.	1.029E-05	1.026E-05	9.230E-06	6.626E-08
A	SITE BOUNDARY	SSE	0.81	1307.	9.533E-06	9.491E-06	8.445E-06	5.218E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	7.486E-07	7.422E-07	6.415E-07	2.028E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.796E-07	3.767E-07	3.254E-07	1.423E-09
A	NEAR. RESIDENCE	W	1.00	1609.	7.552E-07	7.518E-07	6.602E-07	4.112E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.603E-07	3.575E-07	3.037E-07	2.028E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	3.739E-06	3.723E-06	3.291E-06	2.386E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	9.440E-07	9.297E-07	7.820E-07	2.096E-09
A	NEAR. RESIDENCE	N	3.00	4828.	7.013E-07	6.857E-07	5.535E-07	1.377E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	5.269E-07	5.166E-07	4.210E-07	1.193E-09
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.311E-07	2.288E-07	1.937E-07	9.949E-10
A	NEAR. RESIDENCE	E	1.80	2897.	3.329E-07	3.301E-07	2.777E-07	1.377E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.903E-07	2.866E-07	2.353E-07	1.096E-09
A	NEAREST COW	NNW	3.50	5633.	2.922E-07	2.839E-07	2.261E-07	5.025E-10
A	NEAREST GARDEN	SW	1.30	2092.	7.486E-07	7.422E-07	6.415E-07	2.028E-09
A	NEAREST GARDEN	WSW	1.80	2897.	1.851E-07	1.831E-07	1.543E-07	6.374E-10
A	NEAREST GARDEN	WNW	1.60	2575.	3.603E-07	3.575E-07	3.037E-07	2.028E-09
A	NEAREST GARDEN	NW	2.80	4506.	3.105E-07	3.061E-07	2.475E-07	1.463E-09
A	NEAREST GARDEN	NNW	1.90	3058.	9.440E-07	9.297E-07	7.820E-07	2.096E-09
A	NEAREST GARDEN	N	3.00	4828.	7.013E-07	6.857E-07	5.535E-07	1.377E-09
A	NEAREST GARDEN	ENE	1.70	2736.	2.311E-07	2.288E-07	1.937E-07	9.949E-10
A	NEAREST GARDEN	E	1.80	2897.	3.329E-07	3.301E-07	2.777E-07	1.377E-09
A	NEAREST GARDEN	ESE	2.40	3863.	2.903E-07	2.866E-07	2.353E-07	1.096E-09

Atmospheric Diffusion Estimates

Ground Level Releases

April-June 1995

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
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	3.424E-05	1.157E-05	6.080E-06	3.001E-06	1.178E-06	6.286E-07	3.942E-07	2.729E-07	2.019E-07	1.566E-07	1.258E-07	
SSW	2.337E-05	7.635E-06	3.931E-06	1.933E-06	7.698E-07	4.149E-07	2.622E-07	1.826E-07	1.358E-07	1.059E-07	8.540E-08	
SW	1.487E-05	5.050E-06	2.651E-06	1.304E-06	5.053E-07	2.674E-07	1.666E-07	1.148E-07	8.463E-08	6.544E-08	5.244E-08	
WSW	8.650E-06	2.764E-06	1.410E-06	6.882E-07	2.690E-07	1.432E-07	8.971E-08	6.209E-08	4.594E-08	3.564E-08	2.865E-08	
W	6.937E-06	2.421E-06	1.282E-06	6.312E-07	2.417E-07	1.266E-07	7.826E-08	5.352E-08	3.918E-08	3.012E-08	2.400E-08	
WNW	1.041E-05	3.444E-06	1.763E-06	8.578E-07	3.320E-07	1.755E-07	1.093E-07	7.529E-08	5.547E-08	4.289E-08	3.436E-08	
NW	2.062E-05	6.605E-06	3.427E-06	1.695E-06	6.815E-07	3.699E-07	2.351E-07	1.666E-07	1.229E-07	9.613E-08	7.780E-08	
NNW	5.132E-05	1.636E-05	8.584E-06	4.291E-06	1.758E-06	9.657E-07	6.190E-07	4.361E-07	3.273E-07	2.570E-07	2.088E-07	
N	5.947E-05	1.912E-05	1.025E-05	5.170E-06	2.107E-06	1.152E-06	7.363E-07	5.174E-07	3.875E-07	3.038E-07	2.463E-07	
NNE	4.259E-05	1.353E-05	7.312E-06	3.709E-06	1.508E-06	8.232E-07	5.252E-07	3.686E-07	2.757E-07	2.159E-07	1.750E-07	
NE	1.341E-05	4.214E-06	2.221E-06	1.116E-06	4.578E-07	2.515E-07	1.611E-07	1.135E-07	8.513E-08	6.682E-08	5.426E-08	
ENE	1.077E-05	3.640E-06	1.946E-06	9.738E-07	3.929E-07	2.134E-07	1.357E-07	9.491E-08	7.082E-08	5.534E-08	4.475E-08	
E	6.405E-06	2.092E-06	1.104E-06	5.505E-07	2.209E-07	1.196E-07	7.583E-08	5.294E-08	3.944E-08	3.078E-08	2.486E-08	
ESE	1.556E-05	5.339E-06	2.922E-06	1.474E-06	5.802E-07	3.096E-07	1.940E-07	1.342E-07	9.912E-08	7.678E-08	6.162E-08	
SE	3.418E-05	1.090E-05	5.747E-06	2.879E-06	1.169E-06	6.380E-07	4.068E-07	2.854E-07	2.134E-07	1.671E-07	1.353E-07	
SSE	6.969E-05	2.155E-05	1.110E-05	5.526E-06	2.286E-06	1.264E-06	8.141E-07	5.758E-07	4.335E-07	3.414E-07	2.780E-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	1.040E-07	5.326E-08	3.446E-08	1.977E-08	1.343E-08	9.976E-09	7.835E-09	6.395E-09	5.368E-09	4.602E-09	4.012E-09	
SSW	7.083E-08	3.678E-08	2.404E-08	1.398E-08	9.589E-09	7.175E-09	5.670E-09	4.652E-09	3.922E-09	3.376E-09	2.954E-09	
SW	4.328E-08	2.212E-08	1.429E-08	8.183E-09	5.552E-09	4.120E-09	3.233E-09	2.638E-09	2.213E-09	1.896E-09	1.653E-09	
WSW	2.369E-08	1.220E-08	7.936E-09	4.597E-09	3.153E-09	2.360E-09	1.866E-09	1.532E-09	1.293E-09	1.113E-09	9.748E-10	
W	1.969E-08	9.813E-09	6.224E-09	3.471E-09	2.313E-09	1.692E-09	1.313E-09	1.060E-09	8.818E-10	7.500E-10	6.492E-10	
WNW	2.833E-08	1.441E-08	9.290E-09	5.315E-09	3.614E-09	2.687E-09	2.114E-09	1.728E-09	1.452E-09	1.247E-09	1.088E-09	
NW	6.471E-08	3.395E-08	2.235E-08	1.313E-08	9.068E-09	6.819E-09	5.410E-09	4.453E-09	3.764E-09	3.248E-09	2.847E-09	
NNW	1.741E-07	9.213E-08	6.096E-08	3.602E-08	2.491E-08	1.875E-08	1.489E-08	1.226E-08	1.037E-08	8.945E-09	7.843E-09	
N	2.051E-07	1.080E-07	7.119E-08	4.182E-08	2.881E-08	2.161E-08	1.711E-08	1.406E-08	1.186E-08	1.022E-08	8.944E-09	
NNE	1.456E-07	7.642E-08	5.027E-08	2.946E-08	2.026E-08	1.518E-08	1.201E-08	9.859E-09	8.314E-09	7.156E-09	6.260E-09	
NE	4.523E-08	2.389E-08	1.578E-08	9.307E-09	6.429E-09	4.835E-09	3.836E-09	3.157E-09	2.668E-09	2.301E-09	2.017E-09	
ENE	3.717E-08	1.935E-08	1.266E-08	7.359E-09	5.030E-09	3.753E-09	2.957E-09	2.420E-09	2.036E-09	1.749E-09	1.527E-09	
E	2.063E-08	1.073E-08	7.011E-09	4.073E-09	2.785E-09	2.079E-09	1.639E-09	1.342E-09	1.130E-09	9.709E-10	8.482E-10	
ESE	5.082E-08	2.577E-08	1.655E-08	9.367E-09	6.290E-09	4.627E-09	3.605E-09	2.921E-09	2.436E-09	2.077E-09	1.801E-09	
SE	1.126E-07	5.905E-08	3.883E-08	2.276E-08	1.566E-08	1.174E-08	9.294E-09	7.634E-09	6.442E-09	5.549E-09	4.857E-09	
SSE	2.323E-07	1.240E-07	8.250E-08	4.915E-08	3.420E-08	2.586E-08	2.061E-08	1.702E-08	1.444E-08	1.249E-08	1.097E-08	

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	5.932E-06	1.339E-06	4.082E-07	2.049E-07	1.269E-07	5.618E-08	2.022E-08	1.004E-08	6.415E-09	4.610E-09
SSW	3.866E-06	8.705E-07	2.711E-07	1.378E-07	8.607E-08	3.868E-08	1.426E-08	7.217E-09	4.665E-09	3.381E-09
SW	2.585E-06	5.769E-07	1.728E-07	8.595E-08	5.290E-08	2.334E-08	8.371E-09	4.147E-09	2.646E-09	1.900E-09
WSW	1.390E-06	3.062E-07	9.293E-08	4.663E-08	2.889E-08	1.286E-08	4.697E-09	2.374E-09	1.536E-09	1.115E-09
W	1.246E-06	2.771E-07	8.126E-08	3.983E-08	2.422E-08	1.041E-08	3.568E-09	1.706E-09	1.064E-09	7.517E-10
WNW	1.734E-06	3.793E-07	1.133E-07	5.634E-08	3.465E-08	1.523E-08	5.442E-09	2.705E-09	1.733E-09	1.249E-09
NW	3.363E-06	7.682E-07	2.428E-07	1.246E-07	7.838E-08	3.563E-08	1.338E-08	6.855E-09	4.464E-09	3.252E-09
NNW	8.405E-06	1.969E-06	6.383E-07	3.316E-07	2.102E-07	9.650E-08	3.662E-08	1.885E-08	1.229E-08	8.958E-09
N	9.963E-06	2.363E-06	7.597E-07	3.927E-07	2.481E-07	1.132E-07	4.256E-08	2.173E-08	1.409E-08	1.023E-08
NNE	7.092E-06	1.693E-06	5.420E-07	2.795E-07	1.762E-07	8.017E-08	3.000E-08	1.527E-08	9.885E-09	7.167E-09
NE	2.173E-06	5.125E-07	1.661E-07	8.625E-08	5.464E-08	2.503E-08	9.467E-09	4.861E-09	3.165E-09	2.305E-09
ENE	1.890E-06	4.422E-07	1.401E-07	7.180E-08	4.508E-08	2.034E-08	7.502E-09	3.775E-09	2.427E-09	1.752E-09
E	1.077E-06	2.491E-07	7.835E-08	4.000E-08	2.505E-08	1.128E-08	4.154E-09	2.091E-09	1.346E-09	9.725E-10
ESE	2.815E-06	6.585E-07	2.009E-07	1.006E-07	6.211E-08	2.724E-08	9.595E-09	4.661E-09	2.932E-09	2.081E-09
SE	5.618E-06	1.313E-06	4.199E-07	2.163E-07	1.363E-07	6.196E-08	2.317E-08	1.181E-08	7.654E-09	5.557E-09
SSE	1.095E-05	2.552E-06	8.387E-07	4.391E-07	2.799E-07	1.296E-07	4.991E-08	2.598E-08	1.706E-08	1.250E-08

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
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	3.420E-05	1.155E-05	6.057E-06	2.986E-06	1.169E-06	6.222E-07	3.891E-07	2.686E-07	1.982E-07	1.533E-07	1.228E-07	
SSW	2.333E-05	7.614E-06	3.915E-06	1.922E-06	7.634E-07	4.102E-07	2.584E-07	1.795E-07	1.331E-07	1.034E-07	8.313E-08	
SW	1.486E-05	5.037E-06	2.641E-06	1.297E-06	5.013E-07	2.645E-07	1.644E-07	1.130E-07	8.302E-08	6.402E-08	5.115E-08	
WSW	8.639E-06	2.758E-06	1.405E-06	6.849E-07	2.670E-07	1.417E-07	8.855E-08	6.111E-08	4.509E-08	3.489E-08	2.796E-08	
W	6.931E-06	2.417E-06	1.279E-06	6.288E-07	2.404E-07	1.257E-07	7.753E-08	5.292E-08	3.867E-08	2.967E-08	2.360E-08	
WNW	1.041E-05	3.439E-06	1.759E-06	8.553E-07	3.305E-07	1.744E-07	1.085E-07	7.457E-08	5.485E-08	4.233E-08	3.385E-08	
NW	2.059E-05	6.590E-06	3.415E-06	1.687E-06	6.766E-07	3.663E-07	2.322E-07	1.621E-07	1.207E-07	9.417E-08	7.601E-08	
NNW	5.124E-05	1.631E-05	8.544E-06	4.264E-06	1.742E-06	9.535E-07	6.091E-07	4.277E-07	3.199E-07	2.504E-07	2.027E-07	
N	5.937E-05	1.906E-05	1.020E-05	5.135E-06	2.085E-06	1.137E-06	7.238E-07	5.068E-07	3.783E-07	2.955E-07	2.388E-07	
NNE	4.252E-05	1.348E-05	7.274E-06	3.683E-06	1.492E-06	8.117E-07	5.159E-07	3.608E-07	2.689E-07	2.098E-07	1.694E-07	
NE	1.339E-05	4.200E-06	2.211E-06	1.109E-06	4.532E-07	2.481E-07	1.584E-07	1.111E-07	8.308E-08	6.498E-08	5.258E-08	
ENE	1.075E-05	3.629E-06	1.937E-06	9.680E-07	3.893E-07	2.108E-07	1.336E-07	9.316E-08	6.929E-08	5.397E-08	4.350E-08	
E	6.397E-06	2.087E-06	1.100E-06	5.478E-07	2.193E-07	1.184E-07	7.485E-08	5.212E-08	3.872E-08	3.013E-08	2.427E-08	
ESE	1.555E-05	5.328E-06	2.912E-06	1.467E-06	5.763E-07	3.068E-07	1.918E-07	1.323E-07	9.752E-08	7.536E-08	6.033E-08	
SE	3.412E-05	1.087E-05	5.721E-06	2.862E-06	1.158E-06	6.299E-07	4.003E-07	2.799E-07	2.086E-07	1.628E-07	1.314E-07	
SSE	6.957E-05	2.148E-05	1.104E-05	5.489E-06	2.263E-06	1.247E-06	8.001E-07	5.638E-07	4.230E-07	3.319E-07	2.693E-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	1.012E-07	5.113E-08	3.263E-08	1.821E-08	1.204E-08	8.704E-09	6.659E-09	5.296E-09	4.333E-09	3.623E-09	3.082E-09	
SSW	6.873E-08	3.513E-08	2.260E-08	1.274E-08	8.467E-09	6.144E-09	4.712E-09	3.753E-09	3.074E-09	2.571E-09	2.187E-09	
SW	4.210E-08	2.121E-08	1.351E-08	7.525E-09	4.968E-09	3.588E-09	2.743E-09	2.180E-09	1.783E-09	1.490E-09	1.267E-09	
WSW	2.306E-08	1.171E-08	7.511E-09	4.233E-09	2.826E-09	2.061E-09	1.588E-09	1.271E-09	1.047E-09	8.800E-10	7.525E-10	
W	1.933E-08	9.542E-09	5.997E-09	3.285E-09	2.150E-09	1.545E-09	1.178E-09	9.355E-10	7.651E-10	6.400E-10	5.450E-10	
WNW	2.786E-08	1.405E-08	8.972E-09	5.040E-09	3.364E-09	2.457E-09	1.898E-09	1.524E-09	1.259E-09	1.062E-09	9.117E-10	
NW	6.304E-08	3.263E-08	2.119E-08	1.212E-08	8.151E-09	5.973E-09	4.621E-09	3.710E-09	3.061E-09	2.578E-09	2.208E-09	
NNW	1.685E-07	8.768E-08	5.707E-08	3.263E-08	2.186E-08	1.595E-08	1.228E-08	9.811E-09	8.056E-09	6.754E-09	5.756E-09	
N	1.981E-07	1.025E-07	6.642E-08	3.772E-08	2.514E-08	1.826E-08	1.401E-08	1.116E-08	9.139E-09	7.642E-09	6.498E-09	
NNE	1.404E-07	7.240E-08	4.678E-08	2.647E-08	1.759E-08	1.275E-08	9.761E-09	7.760E-09	6.342E-09	5.295E-09	4.495E-09	
NE	4.367E-08	2.265E-08	1.470E-08	8.371E-09	5.587E-09	4.063E-09	3.119E-09	2.485E-09	2.035E-09	1.702E-09	1.447E-09	
ENE	3.602E-08	1.845E-08	1.188E-08	6.689E-09	4.431E-09	3.206E-09	2.451E-09	1.947E-09	1.591E-09	1.328E-09	1.127E-09	
E	2.009E-08	1.030E-08	6.635E-09	3.749E-09	2.494E-09	1.812E-09	1.391E-09	1.110E-09	9.110E-10	7.636E-10	6.510E-10	
ESE	4.964E-08	2.487E-08	1.577E-08	8.714E-09	5.713E-09	4.105E-09	3.126E-09	2.477E-09	2.020E-09	1.685E-09	1.431E-09	
SE	1.090E-07	5.618E-08	3.633E-08	2.059E-08	1.371E-08	9.962E-09	7.643E-09	6.089E-09	4.986E-09	4.171E-09	3.547E-09	
SSE	2.242E-07	1.175E-07	7.682E-08	4.418E-08	2.970E-08	2.172E-08	1.675E-08	1.340E-08	1.101E-08	9.233E-09	7.870E-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	5.912E-06	1.330E-06	4.031E-07	2.012E-07	1.239E-07	5.404E-08	1.867E-08	8.774E-09	5.319E-09	3.633E-09
SSW	3.852E-06	8.640E-07	2.673E-07	1.350E-07	8.380E-08	3.703E-08	1.303E-08	6.191E-09	3.768E-09	2.578E-09
SW	2.576E-06	5.729E-07	1.705E-07	8.434E-08	5.161E-08	2.243E-08	7.719E-09	3.618E-09	2.190E-09	1.494E-09
WSW	1.385E-06	3.042E-07	9.176E-08	4.578E-08	2.820E-08	1.237E-08	4.336E-09	2.076E-09	1.276E-09	8.821E-10
W	1.243E-06	2.757E-07	8.053E-08	3.932E-08	2.382E-08	1.014E-08	3.383E-09	1.560E-09	9.400E-10	6.419E-10
WNW	1.731E-06	3.777E-07	1.125E-07	5.571E-08	3.414E-08	1.486E-08	5.169E-09	2.475E-09	1.530E-09	1.065E-09
NW	3.553E-06	7.632E-07	2.399E-07	1.224E-07	7.659E-08	3.431E-08	1.237E-08	6.013E-09	3.723E-09	2.584E-09
NNW	8.369E-06	1.952E-06	6.284E-07	3.242E-07	2.042E-07	9.203E-08	3.327E-08	1.606E-08	9.846E-09	6.770E-09
N	9.916E-06	2.341E-06	7.471E-07	3.834E-07	2.405E-07	1.077E-07	3.851E-08	1.840E-08	1.121E-08	7.662E-09
NNE	7.058E-06	1.677E-06	5.327E-07	2.726E-07	1.706E-07	7.613E-08	2.704E-08	1.285E-08	7.792E-09	5.309E-09
NE	2.163E-06	5.078E-07	1.634E-07	8.420E-08	5.295E-08	2.379E-08	8.541E-09	4.091E-09	2.495E-09	1.706E-09
ENE	1.882E-06	4.386E-07	1.380E-07	7.027E-08	4.383E-08	1.943E-08	6.839E-09	3.231E-09	1.955E-09	1.331E-09
E	1.074E-06	2.475E-07	7.737E-08	3.228E-08	2.446E-08	1.084E-08	3.833E-09	1.826E-09	1.115E-09	7.656E-10
ESE	2.807E-06	6.545E-07	1.987E-07	9.902E-08	6.082E-08	2.633E-08	8.948E-09	4.142E-09	2.488E-09	1.690E-09
SE	5.594E-06	1.302E-06	4.134E-07	2.115E-07	1.324E-07	5.908E-08	2.103E-08	1.003E-08	6.113E-09	4.181E-09
SSE	1.089E-05	2.528E-06	8.246E-07	4.285E-07	2.711E-07	1.231E-07	4.500E-08	2.186E-08	1.345E-08	9.255E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
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
S	3.240E-05	1.056E-05	5.412E-06	2.623E-06	9.985E-07	5.190E-07	3.181E-07	2.158E-07	1.567E-07	1.195E-07	9.449E-08
SSW	2.211E-05	6.967E-06	3.499E-06	1.689E-06	6.523E-07	3.424E-07	2.115E-07	1.444E-07	1.054E-07	8.071E-08	6.408E-08
SW	1.407E-05	4.608E-06	2.360E-06	1.139E-06	4.282E-07	2.207E-07	1.345E-07	9.079E-08	6.568E-08	4.992E-08	3.937E-08
WSW	8.183E-06	2.522E-06	1.255E-06	6.016E-07	2.279E-07	1.182E-07	7.240E-08	4.910E-08	3.566E-08	2.720E-08	2.151E-08
W	6.564E-06	2.210E-06	1.142E-06	5.519E-07	2.050E-07	1.046E-07	6.322E-08	4.238E-08	3.046E-08	2.302E-08	1.806E-08
WNW	9.853E-06	3.143E-06	1.570E-06	7.503E-07	2.816E-07	1.451E-07	8.835E-08	5.964E-08	4.315E-08	3.280E-08	2.587E-08
NW	1.950E-05	6.028E-06	3.051E-06	1.482E-06	5.776E-07	3.054E-07	1.898E-07	1.302E-07	9.542E-08	7.336E-08	5.843E-08
NNW	4.855E-05	1.493E-05	7.639E-06	3.749E-06	1.489E-06	7.968E-07	4.991E-07	3.445E-07	2.537E-07	1.958E-07	1.565E-07
N	5.626E-05	1.744E-05	9.120E-06	4.517E-06	1.784E-06	9.505E-07	5.935E-07	4.086E-07	3.003E-07	2.314E-07	1.846E-07
NNE	4.029E-05	1.234E-05	6.506E-06	3.240E-06	1.277E-06	6.789E-07	4.233E-07	2.910E-07	2.136E-07	1.644E-07	1.311E-07
NE	1.268E-05	3.845E-06	1.977E-06	9.754E-07	3.877E-07	1.074E-07	1.299E-07	8.959E-08	6.597E-08	5.089E-08	4.066E-08
ENE	1.019E-05	3.321E-06	1.732E-06	8.510E-07	3.328E-07	1.761E-07	1.094E-07	7.499E-08	5.492E-08	4.218E-08	3.356E-08
E	6.060E-06	1.910E-06	9.824E-07	4.812E-07	1.872E-07	9.876E-08	6.120E-08	4.187E-08	3.062E-08	2.349E-08	1.867E-08
ESE	1.473E-05	4.872E-06	2.601E-06	1.288E-06	4.918E-07	2.557E-07	1.566E-07	1.061E-07	7.698E-08	5.863E-08	4.631E-08
SE	3.233E-05	9.945E-06	5.115E-06	2.516E-06	9.904E-07	5.264E-07	3.280E-07	2.254E-07	1.654E-07	1.273E-07	1.015E-07
SSE	6.592E-05	1.966E-05	9.877E-06	4.828E-06	1.936E-06	1.043E-06	6.562E-07	4.546E-07	3.359E-07	2.600E-07	2.083E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	7.693E-08	3.711E-08	2.279E-08	1.200E-08	7.596E-09	5.302E-09	3.937E-09	3.051E-09	2.440E-09	1.998E-09	1.668E-09
SSW	5.235E-08	2.559E-08	1.586E-08	8.462E-09	5.399E-09	3.792E-09	2.829E-09	2.201E-09	1.766E-09	1.450E-09	1.213E-09
SW	3.201E-08	1.541E-08	9.447E-09	4.966E-09	3.139E-09	2.189E-09	1.624E-09	1.258E-09	1.006E-09	8.233E-10	6.869E-10
WSW	1.753E-08	8.502E-09	5.247E-09	2.791E-09	1.783E-09	1.254E-09	9.379E-10	7.312E-10	5.879E-10	4.838E-10	4.056E-10
W	1.460E-08	6.863E-09	4.137E-09	2.125E-09	1.323E-09	9.120E-10	6.709E-10	5.161E-10	4.102E-10	3.343E-10	2.778E-10
WNW	2.102E-08	1.009E-08	6.179E-09	3.255E-09	2.067E-09	1.448E-09	1.080E-09	8.402E-10	6.746E-10	5.547E-10	4.647E-10
NW	4.787E-08	2.366E-08	1.479E-08	7.978E-09	5.132E-09	3.627E-09	2.721E-09	2.127E-09	1.713E-09	1.412E-09	1.185E-09
NNW	1.286E-07	6.403E-08	4.018E-08	2.176E-08	1.400E-08	9.888E-09	7.411E-09	5.786E-09	4.655E-09	3.832E-09	3.212E-09
N	1.514E-07	7.500E-08	4.688E-08	2.524E-08	1.616E-08	1.138E-08	8.502E-09	6.621E-09	5.314E-09	4.365E-09	3.652E-09
NNE	1.074E-07	5.304E-08	3.308E-08	1.776E-08	1.135E-08	7.977E-09	5.953E-09	4.630E-09	3.712E-09	3.047E-09	2.546E-09
NE	3.338E-08	1.658E-08	1.039E-08	5.611E-09	3.602E-09	2.540E-09	1.901E-09	1.482E-09	1.191E-09	9.792E-10	8.198E-10
ENE	2.746E-08	1.346E-08	8.351E-09	4.451E-09	2.830E-09	1.982E-09	1.475E-09	1.145E-09	9.161E-10	7.506E-10	6.266E-10
E	1.526E-08	7.473E-09	4.636E-09	2.472E-09	1.574E-09	1.104E-09	8.229E-10	6.397E-10	5.128E-10	4.209E-10	3.519E-10
ESE	3.763E-08	1.798E-08	1.096E-08	5.703E-09	3.570E-09	2.470E-09	1.821E-09	1.403E-09	1.115E-09	9.090E-10	7.553E-10
SE	8.315E-08	4.103E-08	2.559E-08	1.374E-08	8.794E-09	6.187E-09	4.622E-09	3.599E-09	2.888E-09	2.373E-09	1.985E-09
SSE	1.714E-07	8.606E-08	5.430E-08	2.962E-08	1.916E-08	1.359E-08	1.021E-08	7.995E-09	6.445E-09	5.315E-09	4.461E-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
S	5.317E-06	1.146E-06	3.308E-07	1.594E-07	9.539E-08	3.959E-08	1.244E-08	5.368E-09	3.071E-09	2.007E-09
SSW	3.465E-06	7.450E-07	2.196E-07	1.071E-07	6.466E-08	2.721E-08	8.745E-09	3.835E-09	2.215E-09	1.456E-09
SW	2.317E-06	4.940E-07	1.400E-07	6.685E-08	3.977E-08	1.645E-08	5.150E-09	2.216E-09	1.267E-09	8.268E-10
WSW	1.246E-06	2.622E-07	7.530E-08	3.627E-08	2.172E-08	9.061E-09	2.889E-09	1.269E-09	7.357E-10	4.857E-10
W	1.117E-06	2.375E-07	6.593E-08	3.103E-08	1.825E-08	7.371E-09	2.215E-09	9.250E-10	5.200E-10	3.358E-10
WNW	1.555E-06	3.251E-07	9.198E-08	4.392E-08	2.613E-08	1.078E-08	3.377E-09	1.466E-09	8.456E-10	5.569E-10
NW	3.015E-06	6.575E-07	1.968E-07	9.694E-08	5.895E-08	2.510E-08	8.226E-09	3.666E-09	2.139E-09	1.417E-09
NNW	7.531E-06	1.684E-06	5.166E-07	2.576E-07	1.578E-07	6.777E-08	2.240E-08	9.993E-09	5.820E-09	3.846E-09
N	8.924E-06	2.021E-06	6.148E-07	3.050E-07	1.862E-07	7.948E-08	2.601E-08	1.150E-08	6.660E-09	4.382E-09
NNE	6.352E-06	1.447E-06	4.385E-07	2.170E-07	1.322E-07	5.625E-08	1.831E-08	8.067E-09	4.659E-09	3.059E-09
NE	1.947E-06	4.382E-07	1.344E-07	6.697E-08	4.099E-08	1.756E-08	5.780E-09	2.568E-09	1.491E-09	9.829E-10
ENE	1.694E-06	3.783E-07	1.134E-07	5.580E-08	3.385E-08	1.430E-08	4.597E-09	2.005E-09	1.152E-09	7.537E-10
E	9.657E-07	2.132E-07	6.348E-08	3.111E-08	1.883E-08	7.943E-09	2.554E-09	1.117E-09	6.437E-10	4.226E-10
ESE	2.523E-06	5.639E-07	1.629E-07	7.832E-08	4.674E-08	1.923E-08	5.924E-09	2.504E-09	1.413E-09	9.132E-10
SE	5.033E-06	1.123E-06	3.399E-07	1.680E-07	1.023E-07	4.353E-08	1.418E-08	6.256E-09	3.620E-09	2.382E-09
SSE	9.808E-06	2.182E-06	6.786E-07	3.409E-07	2.099E-07	9.091E-08	3.046E-08	1.372E-08	8.039E-09	5.334E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

***** RELATIVE DEPOSITION PER UNIT AREA (MM-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	2.050E-07	6.932E-08	3.559E-08	1.692E-08	6.078E-09	3.014E-09	1.775E-09	1.162E-09	8.178E-10	6.060E-10	4.670E-10
SSW	1.233E-07	4.170E-08	2.141E-08	1.018E-08	3.656E-09	1.813E-09	1.068E-09	6.991E-10	4.919E-10	3.645E-10	2.809E-10
SW	9.856E-08	3.333E-08	1.711E-08	8.136E-09	2.922E-09	1.449E-09	8.534E-10	5.588E-10	3.932E-10	2.914E-10	2.246E-10
WSW	7.497E-08	2.535E-08	1.302E-08	6.189E-09	2.223E-09	1.102E-09	6.491E-10	4.250E-10	2.991E-10	2.216E-10	1.708E-10
W	5.590E-08	1.890E-08	9.707E-09	4.615E-09	1.658E-09	8.220E-10	4.840E-10	3.169E-10	2.230E-10	1.653E-10	1.274E-10
WNW	1.073E-07	3.628E-08	1.863E-08	8.857E-09	3.181E-09	1.578E-09	9.290E-10	6.083E-10	4.280E-10	3.172E-10	2.445E-10
NW	1.445E-07	4.885E-08	2.508E-08	1.192E-08	4.283E-09	2.124E-09	1.251E-09	8.189E-10	5.762E-10	4.270E-10	3.291E-10
NNW	2.125E-07	7.185E-08	3.689E-08	1.754E-08	6.300E-09	3.124E-09	1.840E-09	1.205E-09	8.476E-10	6.281E-10	4.840E-10
N	2.364E-07	7.995E-08	4.105E-08	1.952E-08	7.010E-09	3.476E-09	2.047E-09	1.340E-09	9.431E-10	6.990E-10	5.386E-10
NNE	1.645E-07	5.563E-08	2.856E-08	1.358E-08	4.878E-09	2.419E-09	1.424E-09	9.327E-10	6.563E-10	4.864E-10	3.748E-10
NE	5.625E-08	1.902E-08	9.766E-09	4.643E-09	1.668E-09	8.271E-10	4.870E-10	3.189E-10	2.244E-10	1.663E-10	1.281E-10
ENE	5.055E-08	1.709E-08	8.776E-09	4.172E-09	1.499E-09	7.432E-10	4.376E-10	2.866E-10	2.016E-10	1.494E-10	1.152E-10
E	5.375E-08	1.817E-08	9.332E-09	4.436E-09	1.594E-09	7.903E-10	4.653E-10	3.047E-10	2.144E-10	1.589E-10	1.224E-10
ESE	1.165E-07	3.939E-08	2.023E-08	9.616E-09	3.454E-09	1.713E-09	1.009E-09	6.604E-10	4.647E-10	3.444E-10	2.654E-10
SE	1.528E-07	5.169E-08	2.654E-08	1.262E-08	4.532E-09	2.247E-09	1.323E-09	8.665E-10	6.097E-10	4.519E-10	3.482E-10
SSE	2.465E-07	8.336E-08	4.280E-08	2.035E-08	7.309E-09	3.625E-09	2.134E-09	1.397E-09	9.833E-10	7.287E-10	5.616E-10

***** RELATIVE DEPOSITION PER UNIT AREA (MM-2) BY DOWNWIND SECTORS *****											
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	3.710E-10	1.648E-10	9.984E-11	5.046E-11	3.054E-11	2.048E-11	1.467E-11	1.102E-11	8.567E-12	6.844E-12	5.586E-12
SSW	2.232E-10	9.914E-11	6.006E-11	3.036E-11	1.837E-11	1.232E-11	8.827E-12	6.628E-12	5.153E-12	4.117E-12	3.360E-12
SW	1.784E-10	7.925E-11	4.800E-11	2.426E-11	1.469E-11	9.846E-12	7.055E-12	5.298E-12	4.119E-12	3.291E-12	2.686E-12
WSW	1.357E-10	6.028E-11	3.651E-11	1.846E-11	1.117E-11	7.490E-12	5.367E-12	4.030E-12	3.133E-12	2.503E-12	2.043E-12
W	1.012E-10	4.495E-11	2.723E-11	1.376E-11	8.330E-12	5.585E-12	4.002E-12	3.005E-12	2.336E-12	1.866E-12	1.523E-12
WNW	1.942E-10	8.627E-11	5.226E-11	2.641E-11	1.599E-11	1.072E-11	7.681E-12	5.767E-12	4.484E-12	3.582E-12	2.924E-12
NW	2.614E-10	1.161E-10	7.035E-11	3.556E-11	2.152E-11	1.443E-11	1.034E-11	7.764E-12	6.037E-12	4.822E-12	3.936E-12
NNW	3.845E-10	1.708E-10	1.035E-10	5.230E-11	3.166E-11	2.123E-11	1.521E-11	1.142E-11	8.880E-12	7.093E-12	5.790E-12
N	4.279E-10	1.901E-10	1.152E-10	5.820E-11	3.523E-11	2.362E-11	1.692E-11	1.271E-11	9.881E-12	7.893E-12	6.443E-12
NNE	2.977E-10	1.323E-10	8.012E-11	4.050E-11	2.451E-11	1.643E-11	1.178E-11	8.843E-12	6.875E-12	5.492E-12	4.483E-12
NE	1.018E-10	4.523E-11	2.740E-11	1.385E-11	8.381E-12	5.619E-12	4.026E-12	3.023E-12	2.351E-12	1.878E-12	1.533E-12
ENE	9.148E-11	4.064E-11	2.462E-11	1.244E-11	7.531E-12	5.050E-12	3.618E-12	2.717E-12	2.112E-12	1.687E-12	1.377E-12
E	9.727E-11	4.321E-11	2.618E-11	1.323E-11	8.008E-12	5.369E-12	3.847E-12	2.889E-12	2.246E-12	1.794E-12	1.465E-12
ESE	2.108E-10	9.366E-11	5.673E-11	2.868E-11	1.736E-11	1.164E-11	8.339E-12	6.261E-12	4.868E-12	3.889E-12	3.174E-12
SE	2.766E-10	1.229E-10	7.444E-11	3.763E-11	2.277E-11	1.527E-11	1.094E-11	8.216E-12	6.388E-12	5.103E-12	4.165E-12
SSE	4.461E-10	1.982E-10	1.201E-10	6.068E-11	3.673E-11	2.462E-11	1.764E-11	1.325E-11	1.030E-11	8.229E-12	6.717E-12

***** RELATIVE DEPOSITION PER UNIT AREA (MM-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	3.479E-08	7.126E-09	1.860E-09	8.355E-10	4.727E-10	1.818E-10	5.258E-11	2.084E-11	1.113E-11	6.889E-12	
SSW	2.093E-08	4.286E-09	1.119E-09	5.026E-10	2.843E-10	1.093E-10	3.163E-11	1.254E-11	6.695E-12	4.144E-12	
SW	1.673E-08	3.426E-09	8.944E-10	4.017E-10	2.273E-10	8.739E-11	2.528E-11	1.002E-11	5.351E-12	3.312E-12	
WSW	1.272E-08	2.606E-09	6.804E-10	3.056E-10	1.729E-10	6.648E-11	1.923E-11	7.622E-12	4.070E-12	2.519E-12	
W	9.487E-09	1.943E-09	5.073E-10	2.279E-10	1.289E-10	4.957E-11	1.434E-11	5.684E-12	3.035E-12	1.879E-12	
WNW	1.821E-08	3.730E-09	9.737E-10	4.373E-10	2.474E-10	9.514E-11	2.752E-11	1.091E-11	5.825E-12	3.606E-12	
NW	2.451E-08	5.021E-09	1.311E-09	5.887E-10	3.331E-10	1.281E-10	3.705E-11	1.469E-11	7.842E-12	4.854E-12	
NNW	3.606E-08	7.386E-09	1.928E-09	8.660E-10	4.899E-10	1.884E-10	5.450E-11	2.160E-11	1.153E-11	7.140E-12	
N	4.012E-08	8.219E-09	2.146E-09	9.636E-10	5.451E-10	2.096E-10	6.065E-11	2.404E-11	1.284E-11	7.945E-12	
NNE	2.792E-08	5.719E-09	1.493E-09	6.705E-10	3.793E-10	1.459E-10	4.220E-11	1.673E-11	8.931E-12	5.528E-12	
NE	9.546E-09	1.955E-09	5.104E-10	2.293E-10	1.297E-10	4.987E-11	1.443E-11	5.719E-12	3.054E-12	1.890E-12	
ENE	8.578E-09	1.757E-09	4.587E-10	2.060E-10	1.165E-10	4.482E-11	1.297E-11	5.139E-12	2.744E-12	1.699E-12	
E	9.121E-09	1.868E-09	4.877E-10	2.191E-10	1.239E-10	4.765E-11	1.379E-11	5.464E-12	2.918E-12	1.806E-12	
ESE	1.977E-08	4.049E-09	1.057E-09	4.748E-10	2.686E-10	1.033E-10	2.988E-11	1.184E-11	6.324E-12	3.914E-12	
SE	2.594E-08	5.313E-09	1.387E-09	6.230E-10	3.524E-10	1.355E-10	3.921E-11	1.554E-11	8.298E-12	5.136E-12	
SSE	4.183E-08	8.569E-09	2.237E-09	1.005E-09	5.683E-10	2.186E-10	6.323E-11	2.506E-11	1.338E-11	8.283E-12	

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q			D/Q (PER SQ.METER)
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	5.206E-06	5.186E-06	4.617E-06	3.027E-08
A	SITE BOUNDARY	SSW	0.82	1327.	3.110E-06	3.097E-06	2.753E-06	1.680E-08
A	SITE BOUNDARY	SW	0.98	1569.	1.385E-06	1.378E-06	1.213E-06	8.682E-09
A	SITE BOUNDARY	WSW	0.93	1489.	8.314E-07	8.276E-07	7.305E-07	7.562E-09
A	SITE BOUNDARY	W	0.91	1468.	7.901E-07	7.874E-07	6.951E-07	5.851E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.004E-06	1.001E-06	8.816E-07	1.045E-08
A	SITE BOUNDARY	NW	0.81	1307.	2.821E-06	2.811E-06	2.500E-06	2.048E-08
A	SITE BOUNDARY	NNW	0.69	1106.	9.836E-06	9.794E-06	8.797E-06	4.272E-08
A	SITE BOUNDARY	N	0.67	1086.	1.202E-05	1.197E-05	1.076E-05	4.902E-08
A	SITE BOUNDARY	NNE	0.60	965.	1.021E-05	1.017E-05	9.208E-06	4.133E-08
A	SITE BOUNDARY	NE	0.62	1005.	2.946E-06	2.934E-06	2.648E-06	1.328E-08
A	SITE BOUNDARY	ENE	0.59	945.	2.841E-06	2.831E-06	2.566E-06	1.314E-08
A	SITE BOUNDARY	E	0.53	845.	1.931E-06	1.927E-06	1.757E-06	1.678E-08
A	SITE BOUNDARY	ESE	0.54	865.	4.766E-06	4.755E-06	4.330E-06	3.501E-08
A	SITE BOUNDARY	SE	0.65	1046.	7.167E-06	7.139E-06	6.430E-06	3.375E-08
A	SITE BOUNDARY	SSE	0.81	1307.	9.150E-06	9.100E-06	8.103E-06	3.495E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	7.011E-07	6.964E-07	6.011E-07	4.173E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.721E-07	3.697E-07	3.190E-07	3.174E-09
A	NEAR. RESIDENCE	W	1.00	1609.	6.312E-07	6.288E-07	5.519E-07	4.615E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.871E-07	2.857E-07	2.422E-07	2.714E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.184E-06	2.175E-06	1.923E-06	1.567E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.072E-06	1.060E-06	8.892E-07	3.535E-09
A	NEAR. RESIDENCE	N	3.00	4828.	5.174E-07	5.068E-07	4.086E-07	1.340E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.517E-07	4.431E-07	3.610E-07	1.190E-09
A	NEAR. RESIDENCE	ENE	1.70	2736.	3.003E-07	2.972E-07	2.516E-07	1.102E-09
A	NEAR. RESIDENCE	E	1.80	2897.	1.493E-07	1.479E-07	1.245E-07	1.019E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.110E-07	2.087E-07	1.711E-07	1.110E-09
A	NEAREST COW	NNW	3.50	5633.	3.272E-07	3.199E-07	2.537E-07	8.474E-10
A	NEAREST GARDEN	SW	1.30	2092.	7.011E-07	6.964E-07	6.011E-07	4.173E-09
A	NEAREST GARDEN	WSW	1.80	2897.	1.798E-07	1.781E-07	1.499E-07	1.422E-09
A	NEAREST GARDEN	WNW	1.60	2575.	2.871E-07	2.857E-07	2.422E-07	2.714E-09
A	NEAREST GARDEN	NW	2.80	4506.	1.881E-07	1.855E-07	1.500E-07	9.604E-10
A	NEAREST GARDEN	NNW	1.90	3058.	1.072E-06	1.060E-06	8.892E-07	3.535E-09
A	NEAREST GARDEN	N	3.00	4828.	5.174E-07	5.068E-07	4.086E-07	1.340E-09
A	NEAREST GARDEN	ENE	1.70	2736.	3.003E-07	2.972E-07	2.516E-07	1.102E-09
A	NEAREST GARDEN	E	1.80	2897.	1.493E-07	1.479E-07	1.245E-07	1.019E-09
A	NEAREST GARDEN	ESE	2.40	3863.	2.110E-07	2.087E-07	1.711E-07	1.110E-09

Atmospheric Diffusion Estimates

Ground Level Releases

January-June 1995

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

SECTOR	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)				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	3.590E-05	1.209E-05	6.356E-06	3.142E-06	1.239E-06	6.626E-07	4.164E-07	2.887E-07	2.139E-07	1.661E-07	1.336E-07				
SSW	2.709E-05	8.774E-06	4.533E-06	2.240E-06	9.029E-07	4.904E-07	3.117E-07	2.181E-07	1.628E-07	1.272E-07	1.029E-07				
SW	1.486E-05	5.046E-06	2.671E-06	1.323E-06	5.192E-07	2.770E-07	1.737E-07	1.203E-07	8.899E-08	6.903E-08	5.548E-08				
WSW	8.174E-06	2.715E-06	1.410E-06	6.927E-07	2.717E-07	1.449E-07	9.085E-08	6.289E-08	4.653E-08	3.610E-08	2.901E-08				
W	7.702E-06	2.680E-06	1.412E-06	6.957E-07	2.694E-07	1.422E-07	8.840E-08	6.075E-08	4.465E-08	3.444E-08	2.753E-08				
WNW	1.134E-05	3.794E-06	1.950E-06	9.508E-07	3.696E-07	1.959E-07	1.222E-07	8.429E-08	6.216E-08	4.809E-08	3.855E-08				
NW	2.634E-05	8.776E-06	4.574E-06	2.257E-06	8.966E-07	4.823E-07	3.043E-07	2.117E-07	1.573E-07	1.225E-07	9.872E-08				
NNW	4.577E-05	1.457E-05	7.636E-06	3.818E-06	1.568E-06	8.620E-07	5.529E-07	3.897E-07	2.927E-07	2.299E-07	1.868E-07				
N	6.655E-05	2.104E-05	1.116E-05	5.624E-06	2.313E-06	1.273E-06	8.166E-07	5.757E-07	4.323E-07	3.396E-07	2.760E-07				
NNE	4.408E-05	1.394E-05	7.474E-06	3.782E-06	1.545E-06	8.459E-07	5.408E-07	3.802E-07	2.848E-07	2.233E-07	1.811E-07				
NE	1.943E-05	6.156E-06	3.242E-06	1.626E-06	6.650E-07	3.646E-07	2.334E-07	1.642E-07	1.231E-07	9.655E-08	7.836E-08				
ENE	9.488E-06	3.153E-06	1.681E-06	8.411E-07	3.379E-07	1.830E-07	1.161E-07	8.109E-08	6.043E-08	4.716E-08	3.810E-08				
E	9.875E-06	3.343E-06	1.800E-06	9.032E-07	3.598E-07	1.937E-07	1.222E-07	8.501E-08	6.312E-08	4.911E-08	3.956E-08				
ESE	1.804E-05	6.134E-06	3.377E-06	1.711E-06	6.792E-07	3.645E-07	2.295E-07	1.592E-07	1.180E-07	9.166E-08	7.373E-08				
SE	3.874E-05	1.301E-05	6.932E-06	3.462E-06	1.383E-06	7.461E-07	4.717E-07	3.286E-07	2.443E-07	1.903E-07	1.535E-07				
SSE	6.507E-05	2.098E-05	1.105E-05	5.526E-06	2.245E-06	1.226E-06	7.824E-07	5.492E-07	4.110E-07	3.219E-07	2.609E-07				

BEARING	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)				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	1.105E-07	5.675E-08	3.679E-08	2.116E-08	1.439E-08	1.070E-08	8.409E-09	6.868E-09	5.768E-09	4.947E-09	4.315E-09				
SSW	8.555E-08	4.473E-08	2.936E-08	1.718E-08	1.181E-08	8.854E-09	7.008E-09	5.756E-09	4.858E-09	4.185E-09	3.665E-09				
SW	4.586E-08	2.354E-08	1.525E-08	8.758E-09	5.949E-09	4.418E-09	3.469E-09	2.831E-09	2.376E-09	2.036E-09	1.775E-09				
WSW	2.398E-08	1.229E-08	7.964E-09	4.579E-09	3.117E-09	2.319E-09	1.824E-09	1.491E-09	1.253E-09	1.076E-09	9.388E-10				
W	2.264E-08	1.137E-08	7.252E-09	4.074E-09	2.724E-09	1.998E-09	1.553E-09	1.257E-09	1.047E-09	8.923E-10	7.735E-10				
WNW	3.181E-08	1.621E-08	1.046E-08	5.983E-09	4.060E-09	3.014E-09	2.367E-09	1.932E-09	1.622E-09	1.392E-09	1.214E-09				
NW	8.179E-08	4.226E-08	2.752E-08	1.593E-08	1.088E-08	8.115E-09	6.396E-09	5.236E-09	4.406E-09	3.786E-09	3.308E-09				
NNW	1.558E-07	8.251E-08	5.462E-08	3.228E-08	2.233E-08	1.681E-08	1.334E-08	1.099E-08	9.293E-09	8.020E-09	7.032E-09				
N	2.302E-07	1.219E-07	8.063E-08	4.762E-08	3.290E-08	2.475E-08	1.964E-08	1.616E-08	1.366E-08	1.178E-08	1.032E-08				
NNE	1.509E-07	7.945E-08	5.238E-08	3.079E-08	2.121E-08	1.592E-08	1.251E-08	1.036E-08	8.743E-09	7.532E-09	6.594E-09				
NE	6.529E-08	3.445E-08	2.275E-08	1.340E-08	9.249E-09	6.952E-09	5.512E-09	4.534E-09	3.831E-09	3.303E-09	2.894E-09				
ENE	3.163E-08	1.644E-08	1.074E-08	6.238E-09	4.266E-09	3.183E-09	2.510E-09	2.054E-09	1.729E-09	1.485E-09	1.297E-09				
E	3.274E-08	1.683E-08	1.091E-08	6.265E-09	4.245E-09	3.146E-09	2.466E-09	2.009E-09	1.683E-09	1.441E-09	1.254E-09				
ESE	6.095E-08	3.116E-08	2.012E-08	1.148E-08	7.741E-09	5.714E-09	4.464E-09	3.626E-09	3.030E-09	2.587E-09	2.247E-09				
SE	1.272E-07	6.576E-08	4.280E-08	2.472E-08	1.684E-08	1.253E-08	9.851E-09	8.048E-09	6.760E-09	5.799E-09	5.058E-09				
SSE	2.171E-07	1.140E-07	7.508E-08	4.406E-08	3.035E-08	2.277E-08	1.803E-08	1.482E-08	1.251E-08	1.078E-08	9.437E-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	6.202E-06	1.406E-06	4.310E-07	2.171E-07	1.347E-07	5.982E-08	2.162E-08	1.077E-08	6.889E-09	4.956E-09
SSW	4.456E-06	1.017E-06	3.219E-07	1.650E-07	1.037E-07	4.697E-08	1.750E-08	8.904E-09	5.772E-09	4.192E-09
SW	2.600E-06	5.901E-07	1.799E-07	9.033E-08	5.593E-08	2.481E-08	8.952E-09	4.447E-09	2.840E-09	2.040E-09
WSW	1.381E-06	3.089E-07	9.408E-08	4.724E-08	2.925E-08	1.297E-08	4.681E-09	2.334E-09	1.496E-09	1.078E-09
W	1.375E-06	3.076E-07	9.169E-08	4.536E-08	2.776E-08	1.204E-08	4.180E-09	2.014E-09	1.262E-09	8.943E-10
WNW	1.916E-06	4.216E-07	1.267E-07	6.312E-08	3.888E-08	1.712E-08	6.123E-09	3.034E-09	1.939E-09	1.394E-09
NW	4.478E-06	1.015E-06	3.147E-07	1.596E-07	9.948E-08	4.449E-08	1.626E-08	8.165E-09	5.251E-09	3.793E-09
NNW	7.481E-06	1.754E-06	5.701E-07	2.965E-07	1.881E-07	8.640E-08	3.282E-08	1.689E-08	1.102E-08	8.031E-09
N	1.090E-05	2.586E-06	8.418E-07	4.380E-07	2.779E-07	1.276E-07	4.841E-08	2.488E-08	1.620E-08	1.180E-08
NNE	7.269E-06	1.731E-06	5.579E-07	2.886E-07	1.824E-07	8.329E-08	3.133E-08	1.601E-08	1.039E-08	7.543E-09
NE	3.171E-06	7.451E-07	2.407E-07	1.247E-07	7.891E-08	3.610E-08	1.363E-08	6.988E-09	4.545E-09	3.308E-09
ENE	1.635E-06	3.809E-07	1.199E-07	6.128E-08	3.839E-08	1.728E-08	6.362E-09	3.202E-09	2.060E-09	1.488E-09
E	1.744E-06	4.067E-07	1.264E-07	6.404E-08	3.986E-08	1.774E-08	6.400E-09	3.167E-09	2.016E-09	1.444E-09
ESE	3.249E-06	7.687E-07	2.374E-07	1.198E-07	7.431E-08	3.287E-08	1.174E-08	5.754E-09	3.638E-09	2.592E-09
SE	6.741E-06	1.562E-06	4.876E-07	2.478E-07	1.547E-07	6.922E-08	2.523E-08	1.261E-08	8.072E-09	5.809E-09
SSE	1.080E-05	2.521E-06	8.074E-07	4.165E-07	2.628E-07	1.196E-07	4.486E-08	2.290E-08	1.486E-08	1.079E-08

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
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	3.586E-05	1.206E-05	6.334E-06	3.128E-06	1.230E-06	6.565E-07	4.115E-07	2.847E-07	2.103E-07	1.629E-07	1.307E-07	
SSW	2.705E-05	8.750E-06	4.515E-06	2.228E-06	8.954E-07	4.849E-07	3.073E-07	2.144E-07	1.595E-07	1.243E-07	1.003E-07	
SW	1.484E-05	5.033E-06	2.661E-06	1.316E-06	5.151E-07	2.740E-07	1.714E-07	1.183E-07	8.728E-08	6.751E-08	5.410E-08	
WSW	8.164E-06	2.708E-06	1.405E-06	6.893E-07	2.696E-07	1.434E-07	8.966E-08	6.192E-08	4.569E-08	3.535E-08	2.833E-08	
W	7.695E-06	2.675E-06	1.408E-06	6.930E-07	2.679E-07	1.411E-07	8.754E-08	6.004E-08	4.404E-08	3.390E-08	2.704E-08	
WNW	1.133E-05	3.787E-06	1.945E-06	9.478E-07	3.678E-07	1.945E-07	1.212E-07	8.341E-08	6.139E-08	4.741E-08	3.793E-08	
NW	2.632E-05	8.759E-06	4.561E-06	2.248E-06	8.915E-07	4.785E-07	3.013E-07	2.092E-07	1.551E-07	1.205E-07	9.688E-08	
NNW	4.570E-05	1.453E-05	7.604E-06	3.796E-06	1.554E-06	8.520E-07	5.449E-07	3.829E-07	2.866E-07	2.245E-07	1.819E-07	
N	6.646E-05	2.098E-05	1.112E-05	5.593E-06	2.293E-06	1.258E-06	8.049E-07	5.658E-07	4.237E-07	3.319E-07	2.689E-07	
NNE	4.402E-05	1.390E-05	7.442E-06	3.761E-06	1.531E-06	8.361E-07	5.330E-07	3.735E-07	2.790E-07	2.181E-07	1.764E-07	
NE	1.940E-05	6.138E-06	3.227E-06	1.616E-06	6.590E-07	3.602E-07	2.298E-07	1.611E-07	1.204E-07	9.416E-08	7.617E-08	
ENE	9.476E-06	3.145E-06	1.675E-06	8.370E-07	3.354E-07	1.812E-07	1.146E-07	7.983E-08	5.933E-08	4.618E-08	3.721E-08	
E	9.864E-06	3.336E-06	1.794E-06	8.993E-07	3.575E-07	1.920E-07	1.209E-07	8.388E-08	6.214E-08	4.823E-08	3.876E-08	
ESE	1.802E-05	6.121E-06	3.366E-06	1.704E-06	6.747E-07	3.613E-07	2.269E-07	1.571E-07	1.162E-07	9.000E-08	7.223E-08	
SE	3.869E-05	1.298E-05	6.909E-06	3.447E-06	1.373E-06	7.392E-07	4.662E-07	3.240E-07	2.403E-07	1.867E-07	1.502E-07	
SSE	6.498E-05	2.093E-05	1.101E-05	5.497E-06	2.227E-06	1.213E-06	7.717E-07	5.402E-07	4.030E-07	3.148E-07	2.544E-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	1.079E-07	5.470E-08	3.502E-08	1.964E-08	1.303E-08	9.455E-09	7.255E-09	5.785E-09	4.745E-09	3.976E-09	3.389E-09	
SSW	8.307E-08	4.277E-08	2.765E-08	1.568E-08	1.046E-08	7.611E-09	5.848E-09	4.665E-09	3.825E-09	3.203E-09	2.726E-09	
SW	4.460E-08	2.256E-08	1.441E-08	8.043E-09	5.312E-09	3.836E-09	2.931E-09	2.328E-09	1.901E-09	1.587E-09	1.347E-09	
WSW	2.335E-08	1.181E-08	7.549E-09	4.226E-09	2.801E-09	2.030E-09	1.557E-09	1.241E-09	1.017E-09	8.517E-10	7.255E-10	
W	2.219E-08	1.103E-08	6.965E-09	3.833E-09	2.510E-09	1.804E-09	1.375E-09	1.091E-09	8.909E-10	7.441E-10	6.325E-10	
WNW	3.123E-08	1.576E-08	1.007E-08	5.648E-09	3.757E-09	2.735E-09	2.106E-09	1.686E-09	1.389E-09	1.168E-09	9.999E-10	
NW	8.009E-08	4.092E-08	2.635E-08	1.491E-08	9.954E-09	7.260E-09	5.596E-09	4.482E-09	3.690E-09	3.103E-09	2.654E-09	
NNW	1.512E-07	7.887E-08	5.143E-08	2.950E-08	1.981E-08	1.449E-08	1.118E-08	8.948E-09	7.360E-09	6.179E-09	5.273E-09	
N	2.236E-07	1.166E-07	7.606E-08	4.364E-08	2.932E-08	2.145E-08	1.655E-08	1.326E-08	1.091E-08	9.170E-09	7.831E-09	
NNE	1.465E-07	7.598E-08	4.936E-08	2.817E-08	1.886E-08	1.376E-08	1.059E-08	8.470E-09	6.958E-09	5.837E-09	4.978E-09	
NE	6.327E-08	3.285E-08	2.135E-08	1.219E-08	8.154E-09	5.944E-09	4.573E-09	3.652E-09	2.997E-09	2.511E-09	2.138E-09	
ENE	3.080E-08	1.579E-08	1.018E-08	5.754E-09	3.831E-09	2.785E-09	2.139E-09	1.707E-09	1.400E-09	1.173E-09	9.999E-10	
E	3.201E-08	1.626E-08	1.042E-08	5.843E-09	3.868E-09	2.802E-09	2.147E-09	1.710E-09	1.401E-09	1.174E-09	9.996E-10	
ESE	5.956E-08	3.010E-08	1.920E-08	1.070E-08	7.052E-09	5.088E-09	3.886E-09	3.088E-09	2.524E-09	2.110E-09	1.794E-09	
SE	1.242E-07	6.337E-08	4.073E-08	2.293E-08	1.523E-08	1.105E-08	8.478E-09	6.759E-09	5.542E-09	4.642E-09	3.955E-09	
SSE	2.111E-07	1.093E-07	7.091E-08	4.043E-08	2.707E-08	1.975E-08	1.522E-08	1.217E-08	1.000E-08	8.393E-09	7.159E-09	

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

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES									
	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	
S	6.182E-06	1.397E-06	4.261E-07	2.135E-07	1.318E-07	5.777E-08	2.012E-08	9.529E-09	5.809E-09	3.987E-09
SSW	4.440E-06	1.009E-06	3.175E-07	1.618E-07	1.010E-07	4.500E-08	1.602E-08	7.666E-09	4.683E-09	3.211E-09
SW	2.590E-06	5.859E-07	1.775E-07	8.862E-08	5.455E-08	2.383E-08	8.243E-09	3.868E-09	2.338E-09	1.591E-09
WSW	1.376E-06	3.068E-07	9.291E-08	4.639E-08	2.857E-08	1.248E-08	4.331E-09	2.047E-09	1.246E-09	8.539E-10
W	1.372E-06	3.060E-07	9.083E-08	4.475E-08	2.728E-08	1.170E-08	3.941E-09	1.821E-09	1.096E-09	7.463E-10
WNW	1.911E-06	4.197E-07	1.256E-07	6.235E-08	3.826E-08	1.667E-08	5.790E-09	2.756E-09	1.693E-09	1.171E-09
NW	4.466E-06	1.009E-06	3.117E-07	1.573E-07	9.765E-08	4.315E-08	1.525E-08	7.313E-09	4.499E-09	3.111E-09
NNW	7.451E-06	1.740E-06	5.620E-07	2.905E-07	1.832E-07	8.276E-08	3.007E-08	1.458E-08	8.980E-09	6.193E-09
N	1.085E-05	2.566E-06	8.301E-07	4.293E-07	2.708E-07	1.224E-07	4.448E-08	2.159E-08	1.331E-08	9.191E-09
NNE	7.241E-06	1.718E-06	5.500E-07	2.828E-07	1.777E-07	7.981E-08	2.874E-08	1.335E-08	8.501E-09	5.851E-09
NE	3.158E-06	7.389E-07	2.371E-07	1.220E-07	7.672E-08	3.450E-08	1.243E-08	5.985E-09	3.666E-09	2.517E-09
ENE	1.629E-06	3.783E-07	1.185E-07	6.018E-08	3.750E-08	1.663E-08	5.882E-09	2.806E-09	1.714E-09	1.176E-09
E	1.739E-06	4.043E-07	1.250E-07	6.305E-08	3.907E-08	1.716E-08	5.982E-09	2.824E-09	1.717E-09	1.177E-09
ESE	3.240E-06	7.641E-07	2.348E-07	1.179E-07	7.280E-08	3.180E-08	1.097E-08	5.131E-09	3.101E-09	2.116E-09
SE	6.720E-06	1.552E-06	4.821E-07	2.438E-07	1.514E-07	6.682E-08	2.346E-08	1.114E-08	6.787E-09	4.654E-09
SSE	1.076E-05	2.503E-06	7.967E-07	4.086E-07	2.563E-07	1.149E-07	4.127E-08	1.989E-08	1.221E-08	8.413E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
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	3.397E-05	1.103E-05	5.658E-06	2.747E-06	1.050E-06	5.473E-07	3.362E-07	2.284E-07	1.661E-07	1.268E-07	1.004E-07
SSW	2.562E-05	8.006E-06	4.035E-06	1.958E-06	7.650E-07	4.048E-07	2.514E-07	1.724E-07	1.263E-07	9.703E-08	7.725E-08
SW	1.406E-05	4.605E-06	2.378E-06	1.156E-06	4.400E-07	2.287E-07	1.402E-07	9.509E-08	6.906E-08	5.266E-08	4.165E-08
WSW	7.733E-06	2.477E-06	1.255E-06	6.055E-07	2.303E-07	1.196E-07	7.332E-08	4.974E-08	3.612E-08	2.755E-08	2.179E-08
W	7.288E-06	2.446E-06	1.257E-06	6.083E-07	2.284E-07	1.175E-07	7.141E-08	4.809E-08	3.470E-08	2.632E-08	2.071E-08
WNW	1.073E-05	3.463E-06	1.736E-06	8.516E-07	3.134E-07	1.619E-07	9.876E-08	6.675E-08	4.833E-08	3.677E-08	2.901E-08
NW	2.492E-05	8.010E-06	4.073E-06	1.973E-06	7.602E-07	3.985E-07	2.458E-07	1.676E-07	1.222E-07	9.357E-08	7.424E-08
NNW	4.330E-05	1.330E-05	6.796E-06	3.337E-06	1.328E-06	7.114E-07	4.460E-07	3.080E-07	2.270E-07	1.753E-07	1.402E-07
N	6.296E-05	1.920E-05	9.936E-06	4.915E-06	1.959E-06	1.050E-06	6.588E-07	4.550E-07	3.354E-07	2.590E-07	2.071E-07
NNE	4.170E-05	1.272E-05	6.652E-06	3.306E-06	1.309E-06	6.981E-07	4.363E-07	3.005E-07	2.210E-07	1.703E-07	1.359E-07
NE	1.838E-05	5.617E-06	2.885E-06	1.421E-06	5.633E-07	3.009E-07	1.882E-07	1.297E-07	9.544E-08	7.359E-08	5.877E-08
ENE	8.976E-06	2.877E-06	1.496E-06	7.352E-07	2.864E-07	1.511E-07	9.370E-08	6.412E-08	4.691E-08	3.599E-08	2.862E-08
E	9.343E-06	3.051E-06	1.603E-06	7.896E-07	3.050E-07	1.600E-07	9.870E-08	6.727E-08	4.903E-08	3.750E-08	2.974E-08
ESE	1.707E-05	5.598E-06	3.006E-06	1.496E-06	5.758E-07	3.011E-07	1.853E-07	1.260E-07	9.167E-08	7.000E-08	5.542E-08
SE	3.665E-05	1.187E-05	6.172E-06	3.027E-06	1.172E-06	6.162E-07	3.808E-07	2.600E-07	1.898E-07	1.453E-07	1.154E-07
SSE	6.156E-05	1.915E-05	9.840E-06	4.830E-06	1.903E-06	1.012E-06	6.313E-07	4.342E-07	3.189E-07	2.455E-07	1.958E-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	8.181E-08	3.959E-08	2.437E-08	1.288E-08	8.166E-09	5.710E-09	4.247E-09	3.296E-09	2.639E-09	2.164E-09	1.808E-09
SSW	6.324E-08	3.113E-08	1.939E-08	1.040E-08	6.658E-09	4.687E-09	3.504E-09	2.731E-09	2.194E-09	1.804E-09	1.510E-09
SW	3.392E-08	1.639E-08	1.008E-08	5.314E-09	3.362E-09	2.346E-09	1.742E-09	1.349E-09	1.079E-09	8.831E-10	7.367E-10
WSW	1.774E-08	8.569E-09	5.269E-09	2.782E-09	1.765E-09	1.234E-09	9.184E-10	7.131E-10	5.712E-10	4.686E-10	3.917E-10
W	1.678E-08	7.947E-09	4.816E-09	2.489E-09	1.554E-09	1.073E-09	7.907E-10	6.089E-10	4.844E-10	3.949E-10	3.284E-10
WNW	2.359E-08	1.134E-08	6.951E-09	3.659E-09	2.318E-09	1.621E-09	1.206E-09	9.371E-10	7.512E-10	6.168E-10	5.160E-10
NW	6.060E-08	2.952E-08	1.826E-08	9.715E-09	6.191E-09	4.346E-09	3.243E-09	2.524E-09	2.026E-09	1.665E-09	1.394E-09
NNW	1.152E-07	5.742E-08	3.607E-08	1.956E-08	1.259E-08	8.904E-09	6.679E-09	5.220E-09	4.203E-09	3.463E-09	2.905E-09
N	1.702E-07	8.483E-08	5.327E-08	2.887E-08	1.858E-08	1.313E-08	9.847E-09	7.693E-09	6.193E-09	5.101E-09	4.279E-09
NNE	1.115E-07	5.530E-08	3.460E-08	1.866E-08	1.197E-08	8.439E-09	6.316E-09	4.925E-09	3.959E-09	3.257E-09	2.728E-09
NE	4.824E-08	2.396E-08	1.501E-08	8.107E-09	5.207E-09	3.674E-09	2.751E-09	2.146E-09	1.726E-09	1.420E-09	1.190E-09
ENE	2.340E-08	1.145E-08	7.105E-09	3.789E-09	2.414E-09	1.694E-09	1.263E-09	9.816E-10	7.870E-10	6.460E-10	5.402E-10
E	2.425E-08	1.175E-08	7.235E-09	3.818E-09	2.413E-09	1.683E-09	1.249E-09	9.670E-10	7.728E-10	6.327E-10	5.278E-10
ESE	4.514E-08	2.175E-08	1.334E-08	6.993E-09	4.399E-09	3.055E-09	2.259E-09	1.745E-09	1.391E-09	1.136E-09	9.454E-10
SE	9.419E-08	4.587E-08	2.835E-08	1.504E-08	9.548E-09	6.680E-09	4.969E-09	3.857E-09	3.088E-09	2.532E-09	2.115E-09
SSE	1.606E-07	7.942E-08	4.962E-08	2.673E-08	1.714E-08	1.208E-08	9.045E-09	7.055E-09	5.672E-09	4.667E-09	3.910E-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	5.559E-06	1.204E-06	3.494E-07	1.689E-07	1.013E-07	4.220E-08	1.334E-08	5.780E-09	3.318E-09	2.173E-09
SSW	3.994E-06	8.700E-07	2.607E-07	1.283E-07	7.792E-08	3.305E-08	1.074E-08	4.739E-09	2.747E-09	1.811E-09
SW	2.330E-06	5.052E-07	1.458E-07	7.025E-08	4.205E-08	1.748E-08	5.506E-09	2.375E-09	1.358E-09	8.868E-10
WSW	1.238E-06	2.645E-07	7.624E-08	3.675E-08	2.200E-08	9.140E-09	2.883E-09	1.249E-09	7.177E-10	4.705E-10
W	1.233E-06	2.635E-07	7.437E-08	3.533E-08	2.091E-08	8.518E-09	2.591E-09	1.088E-09	6.134E-10	3.968E-10
WNW	1.718E-06	3.612E-07	1.028E-07	4.919E-08	2.930E-08	1.211E-08	3.795E-09	1.641E-09	9.432E-10	6.193E-10
NW	4.015E-06	8.690E-07	2.552E-07	1.243E-07	7.491E-08	3.142E-08	1.005E-08	4.396E-09	2.540E-09	1.672E-09
NNW	6.704E-06	1.500E-06	4.616E-07	2.305E-07	1.413E-07	6.076E-08	2.013E-08	8.998E-09	5.249E-09	3.475E-09
N	9.763E-06	2.212E-06	6.817E-07	3.405E-07	2.088E-07	8.477E-08	2.972E-08	1.327E-08	7.737E-09	5.120E-09
NNE	6.512E-06	1.481E-06	4.518E-07	2.244E-07	1.371E-07	5.859E-08	1.923E-08	8.531E-09	4.954E-09	3.269E-09
NE	2.842E-06	6.373E-07	1.948E-07	9.691E-08	5.926E-08	2.538E-08	8.352E-09	3.713E-09	2.159E-09	1.425E-09
ENE	1.465E-06	3.260E-07	9.718E-08	4.767E-08	2.887E-08	1.218E-08	3.915E-09	1.713E-09	9.877E-10	6.486E-10
E	1.563E-06	3.483E-07	1.025E-07	4.985E-08	3.001E-08	1.252E-08	3.953E-09	1.704E-09	9.735E-10	6.354E-10
ESE	2.911E-06	6.582E-07	1.924E-07	9.323E-08	5.593E-08	2.321E-08	7.250E-09	3.095E-09	1.757E-09	1.141E-09
SE	6.041E-06	1.337E-06	3.952E-07	1.929E-07	1.164E-07	4.882E-08	1.556E-08	6.761E-09	3.882E-09	2.542E-09
SSE	9.682E-06	2.157E-06	6.540E-07	3.239E-07	1.975E-07	8.421E-08	2.755E-08	1.222E-08	7.097E-09	4.685E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
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	2.135E-07	7.221E-08	3.708E-08	1.763E-08	6.331E-09	3.140E-09	1.849E-09	1.211E-09	8.518E-10	6.313E-10	4.865E-10
SSW	1.120E-07	3.788E-08	1.945E-08	9.247E-09	3.321E-09	1.647E-09	9.699E-10	6.351E-10	4.469E-10	3.312E-10	2.552E-10
SW	7.424E-08	2.511E-08	1.289E-08	6.128E-09	2.201E-09	1.092E-09	6.428E-10	4.209E-10	2.962E-10	2.195E-10	1.691E-10
WSW	5.506E-08	1.862E-08	9.560E-09	4.545E-09	1.633E-09	8.096E-10	4.767E-10	3.121E-10	2.196E-10	1.628E-10	1.254E-10
W	5.390E-08	1.823E-08	9.358E-09	4.449E-09	1.598E-09	7.925E-10	4.666E-10	3.055E-10	2.150E-10	1.593E-10	1.228E-10
WNW	9.542E-08	3.227E-08	1.657E-08	7.877E-09	2.829E-09	1.403E-09	8.262E-10	5.419E-10	3.806E-10	2.821E-10	2.174E-10
NW	1.865E-07	6.305E-08	3.238E-08	1.539E-08	5.529E-09	2.742E-09	1.614E-09	1.057E-09	7.438E-10	5.513E-10	4.248E-10
NNW	1.713E-07	5.792E-08	2.974E-08	1.414E-08	5.079E-09	2.519E-09	1.483E-09	9.711E-10	6.833E-10	5.064E-10	3.902E-10
N	2.435E-07	8.233E-08	4.227E-08	2.010E-08	7.219E-09	3.580E-09	2.108E-09	1.380E-09	9.713E-10	7.198E-10	5.547E-10
NNE	1.674E-07	5.662E-08	2.907E-08	1.382E-08	4.964E-09	2.462E-09	1.450E-09	9.492E-10	6.679E-10	4.950E-10	3.814E-10
NE	6.711E-08	2.269E-08	1.165E-08	5.540E-09	1.990E-09	9.868E-10	5.811E-10	3.805E-10	2.677E-10	1.984E-10	1.529E-10
ENE	4.894E-08	1.655E-08	8.498E-09	4.040E-09	1.451E-09	7.196E-10	4.237E-10	2.775E-10	1.952E-10	1.447E-10	1.115E-10
E	6.463E-08	2.185E-08	1.122E-08	5.334E-09	1.916E-09	9.503E-10	5.595E-10	3.664E-10	2.578E-10	1.911E-10	1.472E-10
ESE	1.181E-07	3.993E-08	2.050E-08	9.747E-09	3.501E-09	1.736E-09	1.022E-09	6.694E-10	4.710E-10	3.491E-10	2.690E-10
SE	2.322E-07	7.852E-08	4.031E-08	1.917E-08	6.885E-09	3.414E-09	2.010E-09	1.316E-09	9.262E-10	6.864E-10	5.290E-10
SSE	3.141E-07	1.062E-07	5.453E-08	2.592E-08	9.312E-09	4.618E-09	2.719E-09	1.780E-09	1.253E-09	9.285E-10	7.155E-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	3.865E-10	1.717E-10	1.040E-10	5.257E-11	3.182E-11	2.133E-11	1.529E-11	1.148E-11	8.924E-12	7.129E-12	5.819E-12
SSW	2.027E-10	9.007E-11	5.456E-11	2.758E-11	1.669E-11	1.119E-11	8.019E-12	6.021E-12	4.682E-12	3.740E-12	3.052E-12
SW	1.344E-10	5.969E-11	3.616E-11	1.828E-11	1.106E-11	7.417E-12	5.314E-12	3.991E-12	3.103E-12	2.478E-12	2.023E-12
WSW	9.965E-11	4.427E-11	2.682E-11	1.355E-11	8.204E-12	5.500E-12	3.941E-12	2.959E-12	2.301E-12	1.838E-12	1.500E-12
W	9.755E-11	4.333E-11	2.625E-11	1.327E-11	8.030E-12	5.384E-12	3.858E-12	2.897E-12	2.252E-12	1.799E-12	1.469E-12
WNW	1.727E-10	7.672E-11	4.647E-11	2.349E-11	1.422E-11	9.532E-12	6.830E-12	5.129E-12	3.988E-12	3.186E-12	2.600E-12
NW	3.375E-10	1.499E-10	9.082E-11	4.590E-11	2.778E-11	1.863E-11	1.335E-11	1.002E-11	7.793E-12	6.225E-12	5.081E-12
NNW	3.100E-10	1.377E-10	8.343E-11	4.217E-11	2.552E-11	1.711E-11	1.226E-11	9.207E-12	7.159E-12	5.718E-12	4.668E-12
N	4.407E-10	1.958E-10	1.186E-10	5.994E-11	3.628E-11	2.432E-11	1.743E-11	1.309E-11	1.018E-11	8.128E-12	6.634E-12
NNE	3.030E-10	1.346E-10	8.154E-11	4.122E-11	2.495E-11	1.673E-11	1.198E-11	8.999E-12	6.997E-12	5.589E-12	4.562E-12
NE	1.215E-10	5.396E-11	3.269E-11	1.652E-11	1.000E-11	6.705E-12	4.804E-12	3.607E-12	2.805E-12	2.241E-12	1.829E-12
ENE	8.858E-11	3.935E-11	2.384E-11	1.205E-11	7.292E-12	4.889E-12	3.503E-12	2.631E-12	2.045E-12	1.634E-12	1.334E-12
E	1.170E-10	5.196E-11	3.148E-11	1.591E-11	9.629E-12	6.456E-12	4.626E-12	3.474E-12	2.701E-12	2.157E-12	1.761E-12
ESE	2.137E-10	9.493E-11	5.751E-11	2.907E-11	1.759E-11	1.180E-11	8.452E-12	6.347E-12	4.935E-12	3.942E-12	3.217E-12
SE	4.202E-10	1.867E-10	1.131E-10	5.716E-11	3.460E-11	2.320E-11	1.662E-11	1.248E-11	9.704E-12	7.752E-12	6.327E-12
SSE	5.684E-10	2.525E-10	1.530E-10	7.731E-11	4.679E-11	3.137E-11	2.248E-11	1.688E-11	1.313E-11	1.048E-11	8.558E-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	3.624E-08	7.423E-09	1.938E-09	8.703E-10	4.924E-10	1.893E-10	5.477E-11	2.171E-11	1.159E-11	7.176E-12
SSW	1.901E-08	3.894E-09	1.017E-09	4.566E-10	2.583E-10	9.932E-11	2.873E-11	1.139E-11	6.081E-12	3.764E-12
SW	1.260E-08	2.581E-09	6.737E-10	3.026E-10	1.712E-10	6.583E-11	1.904E-11	7.548E-12	4.031E-12	2.495E-12
WSW	9.344E-09	1.914E-09	4.997E-10	2.244E-10	1.270E-10	4.882E-11	1.412E-11	5.598E-12	2.989E-12	1.850E-12
W	9.147E-09	1.874E-09	4.891E-10	2.197E-10	1.243E-10	4.779E-11	1.382E-11	5.479E-12	2.926E-12	1.811E-12
WNW	1.619E-08	3.317E-09	8.659E-10	3.889E-10	2.200E-10	8.461E-11	2.448E-11	9.701E-12	5.180E-12	3.206E-12
NW	3.164E-08	6.482E-09	1.692E-09	7.600E-10	4.299E-10	1.653E-10	4.783E-11	1.896E-11	1.012E-11	6.266E-12
NNW	2.907E-08	5.954E-09	1.554E-09	6.981E-10	3.949E-10	1.519E-10	4.394E-11	1.741E-11	9.299E-12	5.756E-12
N	4.132E-08	8.464E-09	2.209E-09	9.923E-10	5.614E-10	2.159E-10	6.245E-11	2.475E-11	1.322E-11	8.182E-12
NNE	2.841E-08	5.820E-09	1.519E-09	6.824E-10	3.860E-10	1.485E-10	4.295E-11	1.702E-11	9.090E-12	5.626E-12
NE	1.139E-08	2.333E-09	6.090E-10	2.735E-10	1.547E-10	5.951E-11	1.722E-11	6.823E-12	3.644E-12	2.255E-12
ENE	8.306E-09	1.701E-09	4.441E-10	1.995E-10	1.128E-10	4.340E-11	1.255E-11	4.976E-12	2.657E-12	1.645E-12
E	1.097E-08	2.246E-09	5.865E-10	2.634E-10	1.490E-10	5.730E-11	1.658E-11	6.570E-12	3.509E-12	2.172E-12
ESE	2.004E-08	4.105E-09	1.072E-09	4.812E-10	2.722E-10	1.047E-10	3.029E-11	1.200E-11	6.410E-12	3.968E-12
SE	3.941E-08	8.071E-09	2.107E-09	9.464E-10	5.354E-10	2.959E-10	5.956E-11	2.361E-11	1.261E-11	7.802E-12
SSE	5.330E-08	1.092E-08	2.850E-09	1.280E-09	7.241E-10	2.785E-10	8.056E-11	3.193E-11	1.705E-11	1.055E-11

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(PER SQ.METER)
			NO DECAY					
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	5.444E-06	5.425E-06	4.828E-06	3.153E-08
A	SITE BOUNDARY	SSW	0.82	1327.	3.592E-06	3.576E-06	3.179E-06	1.526E-08
A	SITE BOUNDARY	SW	0.98	1569.	1.404E-06	1.397E-06	1.230E-06	6.539E-09
A	SITE BOUNDARY	WSW	0.93	1489.	8.359E-07	8.321E-07	7.345E-07	5.554E-09
A	SITE BOUNDARY	W	0.91	1468.	8.701E-07	8.671E-07	7.655E-07	5.640E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.112E-06	1.109E-06	9.768E-07	9.297E-09
A	SITE BOUNDARY	NW	0.81	1307.	3.765E-06	3.754E-06	3.337E-06	2.644E-08
A	SITE BOUNDARY	NNW	0.69	1106.	8.749E-06	8.715E-06	7.826E-06	3.444E-08
A	SITE BOUNDARY	N	0.67	1086.	1.311E-05	1.306E-05	1.174E-05	5.048E-08
A	SITE BOUNDARY	NNE	0.60	965.	1.049E-05	1.045E-05	9.459E-06	4.206E-08
A	SITE BOUNDARY	NE	0.62	1005.	4.303E-06	4.287E-06	3.869E-06	1.585E-08
A	SITE BOUNDARY	ENE	0.59	945.	2.453E-06	2.446E-06	2.216E-06	1.273E-08
A	SITE BOUNDARY	E	0.53	845.	3.094E-06	3.087E-06	2.815E-06	2.018E-08
A	SITE BOUNDARY	ESE	0.54	865.	5.476E-06	5.464E-06	4.975E-06	3.549E-08
A	SITE BOUNDARY	SE	0.65	1046.	8.644E-06	8.620E-06	7.758E-06	5.127E-08
A	SITE BOUNDARY	SSE	0.81	1307.	9.132E-06	9.094E-06	8.090E-06	4.453E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	7.173E-07	7.124E-07	6.150E-07	3.143E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.755E-07	3.730E-07	3.219E-07	2.331E-09
A	NEAR. RESIDENCE	W	1.00	1609.	6.957E-07	6.930E-07	6.083E-07	4.449E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.198E-07	3.181E-07	2.697E-07	2.414E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.914E-06	2.904E-06	2.566E-06	2.022E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	9.570E-07	9.465E-07	7.938E-07	2.850E-09
A	NEAR. RESIDENCE	N	3.00	4828.	5.757E-07	5.658E-07	4.550E-07	1.380E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.655E-07	4.582E-07	3.723E-07	1.211E-09
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.579E-07	2.557E-07	2.162E-07	1.067E-09
A	NEAR. RESIDENCE	E	1.80	2897.	2.422E-07	2.403E-07	2.021E-07	1.226E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.494E-07	2.467E-07	2.022E-07	1.125E-09
A	NEAREST COW	NNW	3.50	5633.	2.926E-07	2.866E-07	2.270E-07	6.832E-10
A	NEAREST GARDEN	SW	1.30	2092.	7.173E-07	7.124E-07	6.150E-07	3.143E-09
A	NEAREST GARDEN	WSW	1.80	2897.	1.818E-07	1.801E-07	1.516E-07	1.044E-09
A	NEAREST GARDEN	WNW	1.60	2575.	3.198E-07	3.181E-07	2.697E-07	2.414E-09
A	NEAREST GARDEN	NW	2.80	4506.	2.426E-07	2.398E-07	1.935E-07	1.240E-09
A	NEAREST GARDEN	NNW	1.90	3058.	9.570E-07	9.465E-07	7.938E-07	2.850E-09
A	NEAREST GARDEN	N	3.00	4828.	5.757E-07	5.658E-07	4.550E-07	1.380E-09
A	NEAREST GARDEN	ENE	1.70	2736.	2.579E-07	2.557E-07	2.162E-07	1.067E-09
A	NEAREST GARDEN	E	1.80	2897.	2.422E-07	2.403E-07	2.021E-07	1.226E-09
A	NEAREST GARDEN	ESE	2.40	3863.	2.494E-07	2.467E-07	2.022E-07	1.125E-09

Atmospheric Diffusion Estimates

Ground Level Releases

July-September 1995

VENTS GROUND LEVEL RELEASES - JUL-SEP 1995
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	4.234E-05	1.412E-05	7.556E-06	3.785E-06	1.515E-06	8.188E-07	5.183E-07	3.615E-07	2.690E-07	2.097E-07	1.693E-07		
SSW	2.166E-05	7.242E-06	3.899E-06	1.959E-06	7.826E-07	4.221E-07	2.667E-07	1.858E-07	1.381E-07	1.075E-07	8.670E-08		
SW	8.571E-06	2.939E-06	1.589E-06	7.962E-07	3.179E-07	1.715E-07	1.085E-07	7.561E-08	5.625E-08	4.384E-08	3.537E-08		
WSW	8.209E-06	2.698E-06	1.475E-06	7.466E-07	2.962E-07	1.589E-07	1.001E-07	6.949E-08	5.153E-08	4.004E-08	3.223E-08		
W	7.174E-06	2.358E-06	1.263E-06	6.346E-07	2.561E-07	1.392E-07	8.847E-08	6.192E-08	4.622E-08	3.613E-08	2.922E-08		
WNW	8.769E-06	2.923E-06	1.584E-06	7.957E-07	3.134E-07	1.674E-07	1.050E-07	7.272E-08	5.380E-08	4.173E-08	3.352E-08		
NW	2.652E-05	9.160E-06	5.032E-06	2.541E-06	1.009E-06	5.422E-07	3.416E-07	2.374E-07	1.761E-07	1.369E-07	1.102E-07		
NNW	6.684E-05	2.181E-05	1.188E-05	6.026E-06	2.436E-06	1.324E-06	8.422E-07	5.894E-07	4.399E-07	3.438E-07	2.780E-07		
N	5.770E-05	1.849E-05	1.007E-05	5.122E-06	2.085E-06	1.139E-06	7.268E-07	5.102E-07	3.817E-07	2.989E-07	2.422E-07		
NNE	4.676E-05	1.461E-05	7.841E-06	3.979E-06	1.636E-06	9.005E-07	5.778E-07	4.073E-07	3.059E-07	2.403E-07	1.952E-07		
NE	1.367E-05	4.285E-06	2.312E-06	1.174E-06	4.787E-07	2.619E-07	1.673E-07	1.175E-07	8.802E-08	6.898E-08	5.593E-08		
ENE	1.086E-05	3.498E-06	1.907E-06	9.676E-07	3.874E-07	2.094E-07	1.325E-07	9.243E-08	6.880E-08	5.364E-08	4.330E-08		
E	1.103E-05	3.298E-06	1.676E-06	8.346E-07	3.517E-07	1.968E-07	1.279E-07	9.104E-08	6.893E-08	5.453E-08	4.458E-08		
ESE	8.824E-06	2.794E-06	1.534E-06	7.829E-07	3.144E-07	1.702E-07	1.079E-07	7.535E-08	5.614E-08	4.380E-08	3.538E-08		
SE	1.987E-05	6.099E-06	3.317E-06	1.700E-06	7.038E-07	3.887E-07	2.502E-07	1.766E-07	1.328E-07	1.045E-07	8.498E-08		
SSE	7.068E-05	2.216E-05	1.167E-05	5.866E-06	2.425E-06	1.339E-06	8.617E-07	6.089E-07	4.581E-07	3.605E-07	2.933E-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	1.404E-07	7.272E-08	4.741E-08	2.744E-08	1.871E-08	1.393E-08	1.096E-08	8.960E-09	7.529E-09	6.461E-09	5.637E-09		
SSW	7.183E-08	3.707E-08	2.410E-08	1.389E-08	9.437E-09	7.007E-09	5.502E-09	4.488E-09	3.765E-09	3.226E-09	2.811E-09		
SW	2.932E-08	1.516E-08	9.872E-09	5.703E-09	3.882E-09	2.887E-09	2.269E-09	1.853E-09	1.556E-09	1.334E-09	1.163E-09		
WSW	2.665E-08	1.365E-08	8.828E-09	5.061E-09	3.437E-09	2.551E-09	2.002E-09	1.632E-09	1.369E-09	1.172E-09	1.021E-09		
W	2.427E-08	1.265E-08	8.279E-09	4.817E-09	3.295E-09	2.459E-09	1.939E-09	1.588E-09	1.336E-09	1.148E-09	1.003E-09		
WNW	2.768E-08	1.409E-08	9.078E-09	5.177E-09	3.504E-09	2.594E-09	2.032E-09	1.655E-09	1.386E-09	1.185E-09	1.031E-09		
NW	9.117E-08	4.677E-08	3.027E-08	1.733E-08	1.171E-08	8.661E-09	6.777E-09	5.511E-09	4.611E-09	3.941E-09	3.426E-09		
NNW	2.310E-07	1.204E-07	7.879E-08	4.582E-08	3.132E-08	2.336E-08	1.840E-08	1.506E-08	1.266E-08	1.087E-08	9.490E-09		
N	2.015E-07	1.057E-07	6.944E-08	4.062E-08	2.789E-08	2.087E-08	1.649E-08	1.352E-08	1.139E-08	9.798E-09	8.565E-09		
NNE	1.628E-07	8.618E-08	5.781E-08	3.366E-08	2.326E-08	1.749E-08	1.388E-08	1.142E-08	9.650E-09	8.322E-09	7.291E-09		
NE	4.657E-08	2.450E-08	1.614E-08	9.480E-09	6.532E-09	4.902E-09	3.881E-09	3.189E-09	2.691E-09	2.318E-09	2.029E-09		
ENE	3.592E-08	1.866E-08	1.218E-08	7.070E-09	4.831E-09	3.603E-09	2.838E-09	2.322E-09	1.952E-09	1.676E-09	1.463E-09		
E	3.739E-08	2.021E-08	1.357E-08	8.167E-09	5.717E-09	4.343E-09	3.474E-09	2.878E-09	2.446E-09	2.121E-09	1.867E-09		
ESE	2.937E-08	1.529E-08	1.000E-08	5.814E-09	3.977E-09	2.968E-09	2.339E-09	1.914E-09	1.610E-09	1.383E-09	1.207E-09		
SE	7.093E-08	3.762E-08	2.492E-08	1.473E-08	1.018E-08	7.662E-09	6.075E-09	5.002E-09	4.227E-09	3.645E-09	3.193E-09		
SSE	2.450E-07	1.303E-07	8.650E-08	5.132E-08	3.558E-08	2.683E-08	2.133E-08	1.758E-08	1.488E-08	1.285E-08	1.128E-08		

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	7.339E-06	1.710E-06	5.357E-07	2.728E-07	1.706E-07	7.650E-08	2.800E-08	1.402E-08	8.987E-09	6.472E-09
SSW	3.780E-06	8.838E-07	2.758E-07	1.401E-07	8.736E-08	3.903E-08	1.418E-08	7.053E-09	4.502E-09	3.232E-09
SW	1.537E-06	3.591E-07	1.121E-07	5.705E-08	3.564E-08	1.596E-08	5.820E-09	2.905E-09	1.859E-09	1.336E-09
WSW	1.423E-06	3.353E-07	1.035E-07	5.229E-08	3.248E-08	1.440E-08	5.177E-09	2.568E-09	1.637E-09	1.174E-09
W	1.227E-06	2.882E-07	9.136E-08	4.686E-08	2.943E-08	1.329E-08	4.910E-09	2.474E-09	1.592E-09	1.150E-09
WNW	1.531E-06	3.557E-07	1.087E-07	5.460E-08	3.379E-08	1.488E-08	5.300E-09	2.612E-09	1.660E-09	1.188E-09
NW	4.842E-06	1.142E-06	3.534E-07	1.787E-07	1.111E-07	4.930E-08	1.771E-08	8.721E-09	5.530E-09	3.948E-09
NNW	1.148E-05	2.740E-06	8.697E-07	4.460E-07	2.801E-07	1.265E-07	4.670E-08	2.350E-08	1.510E-08	1.089E-08
N	9.741E-06	2.339E-06	7.501E-07	3.869E-07	2.44E-07	1.179E-07	4.137E-08	2.099E-08	1.356E-08	9.814E-09
NNE	7.628E-06	1.830E-06	5.956E-07	3.099E-07	1.966E-07	9.025E-08	3.423E-08	1.759E-08	1.145E-08	8.334E-09
NE	2.245E-06	5.369E-07	1.726E-07	8.921E-08	5.633E-08	2.569E-08	9.650E-09	4.928E-09	3.197E-09	2.322E-09
ENE	1.843E-06	4.372E-07	1.370E-07	6.978E-08	4.363E-08	1.962E-08	7.211E-09	3.625E-09	2.329E-09	1.679E-09
E	1.662E-06	3.902E-07	1.315E-07	6.976E-08	4.486E-08	2.107E-08	8.278E-09	4.362E-09	2.884E-09	2.123E-09
ESE	1.480E-06	3.544E-07	1.115E-07	5.693E-08	3.565E-08	1.607E-08	5.928E-09	2.985E-09	1.920E-09	1.385E-09
SE	3.217E-06	7.852E-07	2.577E-07	1.346E-07	8.556E-08	3.938E-08	1.498E-08	7.702E-09	5.014E-09	3.650E-09
SSE	1.142E-05	2.707E-06	8.879E-07	4.640E-07	2.953E-07	1.363E-07	5.214E-08	2.696E-08	1.762E-08	1.287E-08

VENTS GROUND LEVEL RELEASES - JUL-SEP 1995
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	4.229E-05	1.409E-05	7.530E-06	3.767E-06	1.505E-06	8.112E-07	5.123E-07	3.564E-07	2.646E-07	2.058E-07	1.657E-07		
SSW	2.163E-05	7.226E-06	3.886E-06	1.950E-06	7.773E-07	4.182E-07	2.637E-07	1.832E-07	1.359E-07	1.056E-07	8.492E-08		
SW	8.561E-06	2.932E-06	1.583E-06	7.922E-07	3.154E-07	1.698E-07	1.071E-07	7.445E-08	5.524E-08	4.294E-08	3.455E-08		
WSW	8.200E-06	2.692E-06	1.470E-06	7.433E-07	2.942E-07	1.575E-07	9.896E-08	6.856E-08	5.072E-08	3.932E-08	3.158E-08		
W	7.167E-06	2.353E-06	1.259E-06	6.320E-07	2.545E-07	1.380E-07	8.756E-08	6.115E-08	4.555E-08	3.553E-08	2.868E-08		
WNN	8.761E-06	2.916E-06	1.580E-06	7.928E-07	3.117E-07	1.662E-07	1.041E-07	7.192E-08	5.311E-08	4.112E-08	3.297E-08		
NW	2.650E-05	9.147E-06	5.021E-06	2.533E-06	1.005E-06	5.390E-07	3.391E-07	2.353E-07	1.743E-07	1.353E-07	1.087E-07		
NNW	6.766E-05	2.177E-05	1.184E-05	6.000E-06	2.420E-06	1.313E-06	8.329E-07	5.815E-07	4.330E-07	3.376E-07	2.724E-07		
N	5.764E-05	1.845E-05	1.004E-05	5.102E-06	2.072E-06	1.130E-06	7.197E-07	5.041E-07	3.764E-07	2.942E-07	2.379E-07		
NNE	4.670E-05	1.457E-05	7.813E-06	3.960E-06	1.625E-06	8.918E-07	5.708E-07	4.014E-07	3.007E-07	2.356E-07	1.914E-07		
NE	1.365E-05	4.275E-06	2.304E-06	1.169E-06	4.753E-07	2.594E-07	1.653E-07	1.150E-07	8.653E-08	6.764E-08	5.471E-08		
ENE	1.085E-05	3.490E-06	1.901E-06	9.633E-07	3.848E-07	2.075E-07	1.310E-07	9.119E-08	6.772E-08	5.268E-08	4.242E-08		
E	1.102E-05	3.290E-06	1.669E-06	8.305E-07	3.491E-07	1.948E-07	1.263E-07	8.966E-08	6.771E-08	5.343E-08	4.356E-08		
ESE	8.874E-06	2.788E-06	1.528E-06	7.792E-07	3.121E-07	1.686E-07	1.066E-07	7.426E-08	5.518E-08	4.295E-08	3.460E-08		
SE	1.934E-05	6.083E-06	3.304E-06	1.691E-06	6.983E-07	3.847E-07	2.468E-07	1.739E-07	1.304E-07	1.023E-07	8.299E-08		
SSE	7.059E-05	2.210E-05	1.162E-05	5.836E-06	2.406E-06	1.325E-06	8.507E-07	5.995E-07	4.499E-07	3.531E-07	2.865E-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	1.371E-07	7.015E-08	4.518E-08	2.552E-08	1.698E-08	1.234E-08	9.479E-09	7.563E-09	6.203E-09	5.197E-09	4.426E-09		
SSW	7.019E-08	3.581E-08	2.301E-08	1.296E-08	6.602E-09	6.241E-09	4.789E-09	3.818E-09	3.131E-09	2.622E-09	2.233E-09		
SW	2.857E-08	1.458E-08	9.371E-09	5.273E-09	2.497E-09	2.533E-09	1.940E-09	1.543E-09	1.262E-09	1.054E-09	8.956E-10		
WSW	2.605E-08	1.319E-08	8.433E-09	4.725E-09	3.136E-09	2.275E-09	1.746E-09	1.392E-09	1.141E-09	9.561E-10	8.145E-10		
W	2.377E-08	1.225E-08	7.936E-09	4.525E-09	3.026E-09	2.211E-09	1.707E-09	1.368E-09	1.127E-09	9.480E-10	8.107E-10		
WNN	2.717E-08	1.371E-08	8.748E-09	4.896E-09	3.253E-09	2.364E-09	1.818E-09	1.453E-09	1.194E-09	1.003E-09	8.573E-10		
NW	8.982E-08	4.573E-08	2.938E-08	1.657E-08	1.104E-08	8.042E-09	6.200E-09	4.969E-09	4.097E-09	3.452E-09	2.958E-09		
NNW	2.258E-07	1.164E-07	7.529E-08	4.279E-08	2.859E-08	2.085E-08	1.606E-08	1.285E-08	1.056E-08	8.869E-09	7.572E-09		
N	1.975E-07	1.025E-07	6.670E-08	3.823E-08	2.573E-08	1.887E-08	1.461E-08	1.175E-08	9.704E-09	8.184E-09	7.016E-09		
NNE	1.589E-07	8.307E-08	5.428E-08	3.127E-08	2.109E-08	1.548E-08	1.199E-08	9.631E-09	7.946E-09	6.691E-09	5.726E-09		
NE	4.544E-08	2.361E-08	1.536E-08	8.801E-09	5.917E-09	4.375E-09	3.348E-09	2.685E-09	2.212E-09	1.860E-09	1.589E-09		
ENE	3.512E-08	1.803E-08	1.164E-08	6.606E-09	4.414E-09	3.220E-09	2.481E-09	1.986E-09	1.634E-09	1.373E-09	1.173E-09		
E	3.644E-08	1.944E-08	1.288E-08	7.553E-09	5.150E-09	3.811E-09	2.969E-09	2.396E-09	1.984E-09	1.676E-09	1.437E-09		
ESE	2.866E-08	1.473E-08	9.518E-09	5.397E-09	3.602E-09	2.623E-09	2.018E-09	1.612E-09	1.324E-09	1.110E-09	9.465E-10		
SE	6.909E-08	3.616E-08	2.364E-08	1.361E-08	9.168E-09	6.720E-09	5.195E-09	4.166E-09	3.431E-09	2.884E-09	2.464E-09		
SSE	2.387E-07	1.253E-07	8.207E-08	4.742E-08	3.201E-08	2.351E-08	1.820E-08	1.462E-08	1.205E-08	1.014E-08	8.663E-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	7.315E-06	1.699E-06	5.296E-07	2.684E-07	1.670E-07	7.392E-08	2.609E-08	1.243E-08	7.592E-09	5.210E-09
SSW	3.768E-06	8.784E-07	2.727E-07	1.379E-07	8.559E-08	3.776E-08	1.326E-08	6.290E-09	3.834E-09	2.629E-09
SW	1.531E-06	3.566E-07	1.108E-07	5.604E-08	3.482E-08	1.537E-08	5.394E-09	2.553E-09	1.549E-09	1.057E-09
WSW	1.419E-06	3.333E-07	1.024E-07	5.147E-08	3.183E-08	1.393E-08	4.843E-09	2.293E-09	1.398E-09	9.586E-10
W	1.224E-06	2.866E-07	9.045E-08	4.619E-08	2.889E-08	1.289E-08	4.615E-09	2.227E-09	1.373E-09	9.501E-10
WNN	1.527E-06	3.539E-07	1.078E-07	5.392E-08	3.324E-08	1.450E-08	5.022E-09	2.382E-09	1.459E-09	1.006E-09
NW	4.832E-06	1.137E-06	3.509E-07	1.768E-07	1.096E-07	4.826E-08	1.696E-08	8.103E-09	4.989E-09	3.460E-09
NNW	1.145E-05	2.723E-06	8.603E-07	4.391E-07	2.745E-07	1.224E-07	4.370E-08	2.100E-08	1.289E-08	8.890E-09
N	9.714E-06	2.327E-06	7.428E-07	3.816E-07	2.396E-07	1.077E-07	3.900E-08	1.900E-08	1.179E-08	8.202E-09
NNE	7.603E-06	1.818E-06	5.886E-07	3.047E-07	1.923E-07	8.712E-08	3.186E-08	1.558E-08	9.663E-09	6.706E-09
NE	2.237E-06	5.334E-07	1.706E-07	8.771E-08	5.511E-08	2.480E-08	8.977E-09	4.361E-09	2.694E-09	1.864E-09
ENE	1.837E-06	4.346E-07	1.355E-07	6.870E-08	4.276E-08	1.899E-08	6.751E-09	3.243E-09	1.993E-09	1.376E-09
E	1.657E-06	3.875E-07	1.299E-07	6.854E-08	4.384E-08	2.030E-08	7.668E-09	3.831E-09	2.403E-09	1.679E-09
ESE	1.475E-06	3.521E-07	1.102E-07	5.597E-08	3.487E-08	1.551E-08	5.515E-09	2.642E-09	1.618E-09	1.113E-09
SE	3.205E-06	7.796E-07	2.544E-07	1.321E-07	8.356E-08	3.791E-08	1.387E-08	6.763E-09	4.180E-09	2.891E-09
SSE	1.138E-05	2.688E-06	8.768E-07	4.557E-07	2.885E-07	1.313E-07	4.827E-08	2.366E-08	1.466E-08	1.016E-08

VENTS GROUND LEVEL RELEASES - JUL-SEP 1995
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	4.006E-05	1.289E-05	6.727E-06	3.309E-06	1.284E-06	6.762E-07	4.185E-07	2.860E-07	2.089E-07	1.601E-07	1.272E-07	
SSW	2.049E-05	6.610E-06	3.471E-06	1.713E-06	6.633E-07	3.486E-07	2.154E-07	1.470E-07	1.073E-07	8.212E-08	6.517E-08	
SW	8.109E-06	2.682E-06	1.414E-06	6.959E-07	2.694E-07	1.416E-07	8.755E-08	5.979E-08	4.367E-08	3.345E-08	2.656E-08	
WSW	7.767E-06	2.462E-06	1.313E-06	6.528E-07	2.510E-07	1.313E-07	8.081E-08	5.499E-08	4.003E-08	3.058E-08	2.423E-08	
W	6.788E-06	2.152E-06	1.125E-06	5.549E-07	2.171E-07	1.150E-07	7.145E-08	4.901E-08	3.592E-08	2.760E-08	2.197E-08	
WNW	8.297E-06	2.668E-06	1.410E-06	6.958E-07	2.657E-07	1.383E-07	8.485E-08	5.758E-08	4.183E-08	3.190E-08	2.523E-08	
NW	2.509E-05	8.362E-06	4.482E-06	2.222E-06	8.559E-07	4.482E-07	2.762E-07	1.881E-07	1.370E-07	1.047E-07	8.301E-08	
NNW	6.324E-05	1.991E-05	1.057E-05	5.268E-06	2.065E-06	1.094E-06	6.801E-07	4.664E-07	3.417E-07	2.626E-07	2.090E-07	
N	5.459E-05	1.687E-05	8.964E-06	4.479E-06	1.767E-06	9.410E-07	5.871E-07	4.039E-07	2.967E-07	2.284E-07	1.822E-07	
NNE	4.424E-05	1.333E-05	6.980E-06	3.478E-06	1.387E-06	7.436E-07	4.664E-07	3.222E-07	2.375E-07	1.834E-07	1.467E-07	
NE	1.293E-05	3.910E-06	2.058E-06	1.027E-06	4.058E-07	2.163E-07	1.351E-07	9.298E-08	6.835E-08	5.266E-08	4.203E-08	
ENE	1.027E-05	3.192E-06	1.698E-06	8.459E-07	3.284E-07	1.729E-07	1.070E-07	7.314E-08	5.344E-08	4.097E-08	3.255E-08	
E	1.044E-05	3.010E-06	1.492E-06	7.295E-07	2.981E-07	1.625E-07	1.032E-07	7.200E-08	5.351E-08	4.162E-08	3.348E-08	
ESE	8.349E-06	2.550E-06	1.365E-06	6.844E-07	2.665E-07	1.406E-07	8.712E-08	5.961E-08	4.359E-08	3.344E-08	2.658E-08	
SE	1.880E-05	5.565E-06	2.953E-06	1.486E-06	5.964E-07	3.209E-07	2.018E-07	1.397E-07	1.031E-07	7.973E-08	6.382E-08	
SSE	6.687E-05	2.022E-05	1.039E-05	5.127E-06	2.055E-06	1.106E-06	6.955E-07	4.815E-07	3.556E-07	2.751E-07	2.203E-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	1.039E-07	5.074E-08	3.142E-08	1.671E-08	1.063E-08	7.446E-09	5.547E-09	4.310E-09	3.454E-09	2.835E-09	2.370E-09
SSW	5.319E-08	2.588E-08	1.598E-08	8.469E-09	5.368E-09	3.752E-09	2.789E-09	2.164E-09	1.732E-09	1.420E-09	1.186E-09
SW	2.169E-08	1.057E-08	6.535E-09	3.468E-09	2.201E-09	1.539E-09	1.145E-09	8.882E-10	7.108E-10	5.826E-10	4.865E-10
WSW	1.974E-08	9.530E-09	5.855E-09	3.086E-09	1.956E-09	1.366E-09	1.015E-09	7.873E-10	6.299E-10	5.161E-10	4.309E-10
W	1.798E-08	8.836E-09	5.496E-09	2.942E-09	1.878E-09	1.320E-09	9.862E-10	7.682E-10	6.171E-10	5.075E-10	4.251E-10
WNW	2.052E-08	9.857E-09	6.035E-09	3.169E-09	2.003E-09	1.398E-09	1.038E-09	8.047E-10	6.438E-10	5.275E-10	4.406E-10
NW	6.767E-08	3.276E-08	2.016E-08	1.064E-08	6.725E-09	4.692E-09	3.484E-09	2.701E-09	2.161E-09	1.771E-09	1.480E-09
NNW	1.711E-07	8.405E-08	5.225E-08	2.794E-08	1.782E-08	1.251E-08	9.334E-09	7.263E-09	5.828E-09	4.787E-09	4.006E-09
N	1.494E-07	7.385E-08	4.612E-08	2.483E-08	1.592E-08	1.122E-08	8.401E-09	6.556E-09	5.275E-09	4.343E-09	3.643E-09
NNE	1.205E-07	6.012E-08	3.777E-08	2.050E-08	1.321E-08	9.349E-09	7.020E-09	5.491E-09	4.426E-09	3.650E-09	3.065E-09
NE	3.447E-08	1.709E-08	1.069E-08	5.772E-09	3.708E-09	2.618E-09	1.962E-09	1.532E-09	1.233E-09	1.016E-09	8.522E-10
ENE	2.660E-08	1.303E-08	8.081E-09	4.312E-09	2.750E-09	1.930E-09	1.440E-09	1.121E-09	8.993E-10	7.388E-10	6.183E-10
E	2.767E-08	1.409E-08	8.981E-09	4.957E-09	3.241E-09	2.316E-09	1.752E-09	1.379E-09	1.117E-09	9.259E-10	7.807E-10
ESE	2.174E-08	1.067E-08	6.626E-09	3.540E-09	2.258E-09	1.585E-09	1.182E-09	9.198E-10	7.379E-10	6.060E-10	5.069E-10
SE	5.248E-08	2.623E-08	1.649E-08	8.957E-09	5.772E-09	4.084E-09	3.065E-09	2.396E-09	1.930E-09	1.591E-09	1.335E-09
SSE	1.813E-07	9.083E-08	5.725E-08	3.120E-08	2.016E-08	1.430E-08	1.075E-08	8.422E-09	6.795E-09	5.608E-09	4.712E-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	6.577E-06	1.464E-06	4.342E-07	2.124E-07	1.283E-07	5.397E-08	1.728E-08	7.535E-09	4.337E-09	2.846E-09
SSW	3.387E-06	7.567E-07	2.235E-07	1.090E-07	6.576E-08	2.755E-08	8.760E-09	3.798E-09	2.178E-09	1.425E-09
SW	1.377E-06	3.074E-07	9.087E-08	4.438E-08	2.680E-08	1.125E-08	3.587E-09	1.558E-09	8.939E-10	5.850E-10
WSW	1.275E-06	2.871E-07	8.394E-08	4.070E-08	2.445E-08	1.016E-08	3.199E-09	1.383E-09	7.924E-10	5.183E-10
W	1.100E-06	2.468E-07	7.408E-08	3.649E-08	2.216E-08	9.384E-09	3.037E-09	1.335E-09	7.729E-10	5.095E-10
WNW	1.372E-06	3.047E-07	8.820E-08	4.255E-08	2.546E-08	1.053E-08	3.288E-09	1.415E-09	8.101E-10	5.298E-10
NW	4.340E-06	9.783E-07	2.868E-07	1.393E-07	9.377E-08	3.492E-08	1.102E-08	4.751E-09	2.719E-09	1.779E-09
NNW	1.029E-05	2.345E-06	7.050E-07	3.472E-07	2.108E-07	8.925E-08	2.885E-08	1.266E-08	7.308E-09	4.806E-09
N	8.728E-06	2.003E-06	6.082E-07	3.013E-07	1.837E-07	7.831E-08	2.560E-08	1.134E-08	6.595E-09	4.360E-09
NNE	6.835E-06	1.566E-06	4.826E-07	2.411E-07	1.479E-07	6.361E-08	2.110E-08	9.447E-09	5.522E-09	3.663E-09
NE	2.011E-06	4.595E-07	1.399E-07	6.941E-08	4.238E-08	1.811E-08	5.948E-09	2.647E-09	1.541E-09	1.020E-09
ENE	1.651E-06	3.743E-07	1.110E-07	5.432E-08	3.284E-08	1.385E-08	4.455E-09	1.953E-09	1.128E-09	7.417E-10
E	1.490E-06	3.337E-07	1.065E-07	5.426E-08	3.374E-08	1.484E-08	5.092E-09	2.337E-09	1.386E-09	9.289E-10
ESE	1.326E-06	3.034E-07	9.037E-08	4.438E-08	2.682E-08	1.133E-08	3.656E-09	1.603E-09	9.255E-10	6.084E-10
SE	2.881E-06	6.717E-07	2.087E-07	1.077E-07	6.434E-08	2.774E-08	9.216E-09	4.127E-09	2.410E-09	1.597E-09
SSE	1.023E-05	2.316E-06	7.193E-07	3.609E-07	2.221E-07	9.600E-08	3.209E-08	1.444E-08	8.468E-09	5.628E-09

VENTS GROUND LEVEL RELEASES - JUL-SEP 1995
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	1.654E-07	5.592E-08	2.871E-08	1.365E-08	4.903E-09	2.431E-09	1.432E-09	9.374E-10	6.596E-10	4.888E-10	3.767E-10
SSW	7.885E-08	2.666E-08	1.369E-08	6.508E-09	2.338E-09	1.159E-09	6.826E-10	4.470E-10	3.145E-10	2.331E-10	1.796E-10
SW	3.175E-08	1.074E-08	5.512E-09	2.621E-09	9.414E-10	4.668E-10	2.749E-10	1.800E-10	1.267E-10	9.386E-11	7.233E-11
WSW	3.395E-08	1.148E-08	5.895E-09	2.803E-09	1.007E-09	4.993E-10	2.940E-10	1.925E-10	1.354E-10	1.004E-10	7.735E-11
W	3.941E-08	1.333E-08	6.843E-09	3.253E-09	1.169E-09	5.795E-10	3.412E-10	2.234E-10	1.572E-10	1.165E-10	8.979E-11
WNW	5.255E-08	1.777E-08	9.125E-09	4.338E-09	1.558E-09	7.727E-10	4.550E-10	2.979E-10	2.096E-10	1.554E-10	1.197E-10
NW	1.642E-07	5.553E-08	2.851E-08	1.355E-08	4.869E-09	2.414E-09	1.422E-09	9.309E-10	6.550E-10	4.854E-10	3.741E-10
NNW	2.618E-07	8.853E-08	4.545E-08	2.161E-08	7.762E-09	3.849E-09	2.267E-09	1.484E-09	1.044E-09	7.739E-10	5.964E-10
N	2.694E-07	9.110E-08	4.677E-08	2.224E-08	7.987E-09	3.961E-09	2.332E-09	1.527E-09	1.075E-09	7.964E-10	6.137E-10
NNE	1.479E-07	5.002E-08	2.568E-08	1.221E-08	4.386E-09	2.175E-09	1.281E-09	8.385E-10	5.900E-10	4.373E-10	3.370E-10
NE	4.930E-08	1.667E-08	8.560E-09	4.070E-09	1.462E-09	7.249E-10	4.268E-10	2.795E-10	1.967E-10	1.457E-10	1.123E-10
ENE	4.820E-08	1.630E-08	8.368E-09	3.979E-09	1.429E-09	7.087E-10	4.173E-10	2.732E-10	1.923E-10	1.425E-10	1.098E-10
E	3.395E-08	1.148E-08	5.895E-09	2.803E-09	1.007E-09	4.993E-10	2.940E-10	1.925E-10	1.354E-10	1.004E-10	7.735E-11
ESE	4.382E-08	1.482E-08	7.608E-09	3.617E-09	1.299E-09	6.443E-10	3.794E-10	2.484E-10	1.748E-10	1.295E-10	9.983E-11
SE	4.935E-08	1.669E-08	8.568E-09	4.073E-09	1.463E-09	7.256E-10	4.273E-10	2.798E-10	1.969E-10	1.459E-10	1.124E-10
SSE	1.939E-07	6.557E-08	3.367E-08	1.601E-08	5.750E-09	2.851E-09	1.679E-09	1.099E-09	7.736E-10	5.733E-10	4.418E-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	2.993E-10	1.329E-10	8.053E-11	4.071E-11	2.464E-11	1.652E-11	1.184E-11	8.888E-12	6.910E-12	5.520E-12	4.506E-12
SSW	1.427E-10	6.339E-11	3.840E-11	1.941E-11	1.175E-11	7.877E-12	5.644E-12	4.238E-12	3.295E-12	2.632E-12	2.148E-12
SW	5.746E-11	2.553E-11	1.546E-11	7.816E-12	4.731E-12	3.172E-12	2.273E-12	1.707E-12	1.327E-12	1.060E-12	8.651E-13
WSW	6.145E-11	2.730E-11	1.654E-11	8.359E-12	5.059E-12	3.392E-12	2.430E-12	1.825E-12	1.419E-12	1.134E-12	9.252E-13
W	7.133E-11	3.169E-11	1.919E-11	9.702E-12	5.872E-12	3.937E-12	2.821E-12	2.118E-12	1.647E-12	1.316E-12	1.074E-12
WNW	9.511E-11	4.225E-11	2.560E-11	1.294E-11	7.830E-12	5.250E-12	3.762E-12	2.825E-12	2.196E-12	1.754E-12	1.432E-12
NW	2.972E-10	1.320E-10	7.997E-11	4.042E-11	2.447E-11	1.640E-11	1.175E-11	8.826E-12	6.862E-12	5.482E-12	4.474E-12
NNW	4.738E-10	2.105E-10	1.275E-10	6.444E-11	3.901E-11	2.615E-11	1.874E-11	1.407E-11	1.094E-11	8.740E-12	7.133E-12
N	4.876E-10	2.166E-10	1.312E-10	6.632E-11	4.014E-11	2.691E-11	1.928E-11	1.448E-11	1.126E-11	8.993E-12	7.341E-12
NNE	2.677E-10	1.189E-10	7.204E-11	3.641E-11	2.204E-11	1.478E-11	1.059E-11	7.950E-12	6.181E-12	4.938E-12	4.030E-12
NE	8.923E-11	3.964E-11	2.401E-11	1.214E-11	7.346E-12	4.925E-12	3.529E-12	2.650E-12	2.060E-12	1.646E-12	1.343E-12
ENE	8.723E-11	3.875E-11	2.347E-11	1.187E-11	7.181E-12	4.815E-12	3.450E-12	2.591E-12	2.014E-12	1.609E-12	1.313E-12
E	6.145E-11	2.730E-11	1.654E-11	8.359E-12	5.059E-12	3.392E-12	2.430E-12	1.825E-12	1.419E-12	1.134E-12	9.252E-13
ESE	7.931E-11	3.523E-11	2.134E-11	1.079E-11	6.529E-12	4.378E-12	3.137E-12	2.355E-12	1.831E-12	1.463E-12	1.194E-12
SE	8.931E-11	3.968E-11	2.403E-11	1.215E-11	7.353E-12	4.930E-12	3.532E-12	2.652E-12	2.062E-12	1.647E-12	1.345E-12
SSE	3.510E-10	1.559E-10	9.445E-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

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) BY DOWNWIND SECTORS *****											
SEGMENT BOUNDARIES IN MILES											
DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	
S	2.806E-08	5.748E-09	1.501E-09	6.739E-10	3.812E-10	1.466E-10	4.241E-11	1.681E-11	8.977E-12	5.556E-12	
SSW	1.338E-08	2.741E-09	7.155E-10	3.213E-10	1.818E-10	6.991E-11	2.022E-11	8.016E-12	4.280E-12	2.649E-12	
SW	5.388E-09	1.104E-09	2.881E-10	1.294E-10	7.320E-11	2.815E-11	8.144E-12	3.228E-12	1.724E-12	1.067E-12	
WSW	5.762E-09	1.180E-09	3.081E-10	1.384E-10	7.829E-11	3.011E-11	8.709E-12	3.452E-12	1.843E-12	1.141E-12	
W	6.688E-09	1.370E-09	3.576E-10	1.606E-10	9.087E-11	3.494E-11	1.011E-11	4.007E-12	2.140E-12	1.324E-12	
WNW	8.919E-09	1.827E-09	4.769E-10	2.142E-10	1.212E-10	4.660E-11	1.348E-11	5.343E-12	2.853E-12	1.766E-12	
NW	2.787E-08	5.708E-09	1.490E-09	6.692E-10	3.786E-10	1.456E-10	4.212E-11	1.669E-11	8.915E-12	5.518E-12	
NNW	4.443E-08	9.100E-09	2.376E-09	1.067E-09	6.036E-10	2.321E-10	6.715E-11	2.661E-11	1.421E-11	8.797E-12	
N	4.572E-08	9.364E-09	2.445E-09	1.098E-09	6.211E-10	2.389E-10	6.910E-11	2.739E-11	1.462E-11	9.052E-12	
NNE	2.510E-08	5.142E-09	1.342E-09	6.028E-10	3.410E-10	1.311E-10	3.794E-11	1.504E-11	8.030E-12	4.970E-12	
NE	8.367E-09	1.714E-09	4.474E-10	2.009E-10	1.137E-10	4.371E-11	1.265E-11	5.012E-12	2.677E-12	1.657E-12	
ENE	8.180E-09	1.675E-09	4.374E-10	1.964E-10	1.111E-10	4.274E-11	1.236E-11	4.900E-12	2.617E-12	1.620E-12	
E	5.762E-09	1.180E-09	3.081E-10	1.384E-10	7.829E-11	3.011E-11	8.709E-12	3.452E-12	1.843E-12	1.141E-12	
ESE	7.437E-09	1.523E-09	3.977E-10	1.786E-10	1.010E-10	3.885E-11	1.124E-11	4.455E-12	2.379E-12	1.472E-12	
SE	8.375E-09	1.715E-09	4.478E-10	2.011E-10	1.138E-10	4.375E-11	1.266E-11	5.017E-12	2.679E-12	1.658E-12	
SSE	3.291E-08	6.741E-09	1.760E-09	7.904E-10	4.471E-10	1.719E-10	4.974E-11	1.971E-11	1.053E-11	6.516E-12	

VENTS GROUND LEVEL RELEASES - JUL-SEP 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	6.492E-06	6.469E-06	5.758E-06	2.442E-08
A	SITE BOUNDARY	SSW	0.82	1327.	3.111E-06	3.100E-06	2.754E-06	1.074E-08
A	SITE BOUNDARY	SW	0.98	1569.	8.444E-07	8.403E-07	7.394E-07	2.797E-09
A	SITE BOUNDARY	WSW	0.93	1489.	8.964E-07	8.927E-07	7.878E-07	3.425E-09
A	SITE BOUNDARY	W	0.91	1468.	7.876E-07	7.847E-07	6.929E-07	4.125E-09
A	SITE BOUNDARY	WNW	0.94	1509.	9.267E-07	9.235E-07	8.138E-07	5.120E-09
A	SITE BOUNDARY	NW	0.81	1307.	4.175E-06	4.165E-06	3.701E-06	2.328E-08
A	SITE BOUNDARY	NNW	0.69	1106.	1.351E-05	1.347E-05	1.209E-05	5.264E-08
A	SITE BOUNDARY	N	0.67	1086.	1.176E-05	1.173E-05	1.053E-05	5.585E-08
A	SITE BOUNDARY	NNE	0.60	965.	1.099E-05	1.096E-05	9.916E-06	3.716E-08
A	SITE BOUNDARY	NE	0.62	1005.	3.034E-06	3.025E-06	2.728E-06	1.164E-08
A	SITE BOUNDARY	ENE	0.59	945.	2.729E-06	2.722E-06	2.465E-06	1.253E-08
A	SITE BOUNDARY	E	0.53	845.	3.027E-06	3.019E-06	2.754E-06	1.060E-08
A	SITE BOUNDARY	ESE	0.54	865.	2.476E-06	2.470E-06	2.249E-06	1.317E-08
A	SITE BOUNDARY	SE	0.65	1046.	4.083E-06	4.070E-06	3.664E-06	1.090E-08
A	SITE BOUNDARY	SSE	0.81	1307.	9.651E-06	9.611E-06	8.550E-06	2.750E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	4.366E-07	4.337E-07	3.743E-07	1.344E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	4.078E-07	4.054E-07	3.497E-07	1.438E-09
A	NEAR. RESIDENCE	W	1.00	1609.	6.346E-07	6.320E-07	5.549E-07	3.253E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.716E-07	2.701E-07	2.291E-07	1.329E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	3.261E-06	3.253E-06	2.872E-06	1.781E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.473E-06	1.461E-06	1.223E-06	4.356E-09
A	NEAR. RESIDENCE	N	3.00	4828.	5.102E-07	5.041E-07	4.039E-07	1.527E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.979E-07	4.914E-07	3.986E-07	1.070E-09
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.954E-07	2.932E-07	2.477E-07	1.051E-09
A	NEAR. RESIDENCE	E	1.80	2897.	2.427E-07	2.405E-07	2.024E-07	6.440E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	1.171E-07	1.158E-07	9.496E-08	4.175E-10
A	NEAREST COW	NNW	3.50	5633.	4.398E-07	4.330E-07	3.417E-07	1.044E-09
A	NEAREST GARDEN	SW	1.30	2092.	4.366E-07	4.337E-07	3.743E-07	1.344E-09
A	NEAREST GARDEN	WSW	1.80	2897.	1.950E-07	1.974E-07	1.660E-07	6.440E-10
A	NEAREST GARDEN	WNW	1.60	2575.	2.716E-07	2.701E-07	2.291E-07	1.329E-09
A	NEAREST GARDEN	NW	2.80	4506.	2.721E-07	2.698E-07	2.173E-07	1.092E-09
A	NEAREST GARDEN	NNW	1.90	3058.	1.473E-06	1.461E-06	1.223E-06	4.356E-09
A	NEAREST GARDEN	N	3.00	4828.	5.102E-07	5.041E-07	4.039E-07	1.527E-09
A	NEAREST GARDEN	ENE	1.70	2736.	2.954E-07	2.932E-07	2.477E-07	1.051E-09
A	NEAREST GARDEN	E	1.80	2897.	2.427E-07	2.405E-07	2.024E-07	6.440E-10
A	NEAREST GARDEN	ESE	2.40	3863.	1.171E-07	1.158E-07	9.496E-08	4.175E-10

Atmospheric Diffusion Estimates

Ground Level Releases

October-December 1995

VENTS GROUND LEVEL RELEASES - OCT-DEC 1995
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	3.873E-05	1.255E-05	6.587E-06	3.290E-06	1.345E-06	7.370E-07	4.715E-07	3.316E-07	2.485E-07	1.949E-07	1.582E-07
SSW	2.384E-05	7.487E-06	4.014E-06	2.036E-06	8.325E-07	4.561E-07	2.916E-07	2.050E-07	1.535E-07	1.203E-07	9.759E-08
SW	1.003E-05	3.269E-06	1.736E-06	8.700E-07	3.518E-07	1.914E-07	1.217E-07	8.522E-08	6.363E-08	4.974E-08	4.024E-08
WSW	1.039E-05	3.443E-06	1.831E-06	9.165E-07	3.681E-07	1.993E-07	1.263E-07	8.812E-08	6.561E-08	5.117E-08	4.131E-08
W	1.331E-05	4.452E-06	2.352E-06	1.172E-06	4.714E-07	2.555E-07	1.620E-07	1.132E-07	8.434E-08	6.582E-08	5.317E-08
WNW	1.341E-05	4.511E-06	2.389E-06	1.187E-06	4.703E-07	2.523E-07	1.588E-07	1.103E-07	8.180E-08	6.359E-08	5.119E-08
NW	4.125E-05	1.324E-05	6.934E-06	3.461E-06	1.412E-06	7.735E-07	4.947E-07	3.478E-07	2.607E-07	2.044E-07	1.659E-07
NNW	7.351E-05	2.345E-05	1.248E-05	6.292E-06	2.592E-06	1.428E-06	9.167E-07	6.466E-07	4.857E-07	3.817E-07	3.102E-07
N	7.187E-05	2.229E-05	1.186E-05	6.007E-06	2.493E-06	1.380E-06	8.893E-07	6.291E-07	4.737E-07	3.730E-07	3.036E-07
NNE	3.054E-05	9.710E-06	5.077E-06	2.534E-06	1.036E-06	5.679E-07	3.635E-07	2.559E-07	1.919E-07	1.506E-07	1.223E-07
NE	1.795E-05	5.729E-06	3.027E-06	1.521E-06	6.237E-07	3.426E-07	2.195E-07	1.545E-07	1.159E-07	9.100E-08	7.388E-08
ENE	1.485E-05	4.889E-06	2.662E-06	1.364E-06	5.495E-07	2.980E-07	1.890E-07	1.320E-07	9.836E-08	7.675E-08	6.199E-08
E	1.240E-05	4.352E-06	2.369E-06	1.187E-06	4.641E-07	2.467E-07	1.542E-07	1.064E-07	7.847E-08	6.071E-08	4.866E-08
ESE	2.347E-05	8.135E-06	4.397E-06	2.201E-06	8.717E-07	4.675E-07	2.942E-07	2.042E-07	1.514E-07	1.176E-07	9.463E-08
SE	3.297E-05	1.122E-05	6.028E-06	3.017E-06	1.200E-06	6.456E-07	4.072E-07	2.831E-07	2.102E-07	1.635E-07	1.317E-07
SSE	4.200E-05	1.369E-05	7.272E-06	3.647E-06	1.474E-06	8.013E-07	5.095E-07	3.566E-07	2.661E-07	2.080E-07	1.682E-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	1.317E-07	6.935E-08	4.573E-08	2.680E-08	1.852E-08	1.390E-08	1.101E-08	9.049E-09	7.640E-09	6.584E-09	5.766E-09
SSW	8.125E-08	4.271E-08	2.812E-08	1.649E-08	1.134E-08	8.496E-09	6.720E-09	5.516E-09	4.651E-09	4.004E-09	3.503E-09
SW	3.343E-08	1.742E-08	1.141E-08	6.645E-09	4.550E-09	3.399E-09	2.682E-09	2.198E-09	1.850E-09	1.591E-09	1.390E-09
WSW	3.425E-08	1.773E-08	1.155E-08	6.677E-09	4.549E-09	3.385E-09	2.663E-09	2.176E-09	1.828E-09	1.569E-09	1.368E-09
W	4.412E-08	2.289E-08	1.494E-08	8.662E-09	5.908E-09	4.401E-09	3.465E-09	2.833E-09	2.382E-09	2.045E-09	1.785E-09
WNW	4.236E-08	2.180E-08	1.415E-08	8.146E-09	5.539E-09	4.116E-09	3.234E-09	2.640E-09	2.216E-09	1.900E-09	1.657E-09
NW	1.382E-07	7.286E-08	4.809E-08	2.832E-08	1.954E-08	1.469E-08	1.165E-08	9.581E-09	8.096E-09	6.981E-09	6.117E-09
NNW	2.588E-07	1.370E-07	9.061E-08	5.348E-08	3.692E-08	2.776E-08	2.201E-08	1.811E-08	1.530E-08	1.319E-08	1.155E-08
N	2.537E-07	1.350E-07	8.970E-08	5.323E-08	3.690E-08	2.782E-08	2.211E-08	1.822E-08	1.542E-08	1.331E-08	1.168E-08
NNE	1.019E-07	5.387E-08	3.562E-08	2.103E-08	1.454E-08	1.095E-08	8.692E-09	7.158E-09	6.054E-09	5.224E-09	4.581E-09
NE	6.157E-08	3.248E-08	2.145E-08	1.262E-08	8.764E-09	6.536E-09	5.179E-09	4.258E-09	3.596E-09	3.099E-09	2.714E-09
ENE	5.142E-08	2.666E-08	1.738E-08	1.005E-08	6.839E-09	5.084E-09	3.995E-09	3.260E-09	2.736E-09	2.345E-09	2.044E-09
E	4.012E-08	2.032E-08	1.304E-08	7.372E-09	4.944E-09	3.633E-09	2.828E-09	2.290E-09	1.909E-09	1.627E-09	1.410E-09
ESE	7.825E-08	4.008E-08	2.592E-08	1.483E-08	1.003E-08	7.426E-09	5.813E-09	4.731E-09	3.960E-09	3.387E-09	2.946E-09
SE	1.090E-07	5.606E-08	3.636E-08	2.089E-08	1.417E-08	1.051E-08	8.245E-09	6.721E-09	5.634E-09	4.825E-09	4.202E-09
SSE	1.398E-07	7.289E-08	4.775E-08	2.781E-08	1.904E-08	1.422E-08	1.122E-08	9.190E-09	7.737E-09	6.650E-09	5.811E-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	6.446E-06	1.507E-06	4.863E-07	2.519E-07	1.593E-07	7.272E-08	2.735E-08	1.398E-08	9.073E-09	6.594E-09
SSW	3.906E-06	9.326E-07	3.008E-07	1.556E-07	9.828E-08	4.479E-08	1.679E-08	8.543E-09	5.530E-09	4.010E-09
SW	1.692E-06	3.956E-07	1.257E-07	6.451E-08	4.053E-08	1.831E-08	6.772E-09	3.419E-09	2.204E-09	1.593E-09
WSW	1.783E-06	4.150E-07	1.305E-07	6.654E-08	4.162E-08	1.865E-08	6.814E-09	3.407E-09	2.183E-09	1.571E-09
W	2.294E-06	5.312E-07	1.674E-07	8.552E-08	5.357E-08	2.408E-08	8.834E-09	4.428E-09	2.842E-09	2.048E-09
WNW	2.327E-06	5.328E-07	1.643E-07	8.300E-08	5.159E-08	2.297E-08	8.322E-09	4.143E-09	2.648E-09	1.904E-09
NW	6.791E-06	1.584E-06	5.103E-07	2.642E-07	1.671E-07	7.637E-08	2.881E-08	1.477E-08	9.606E-09	6.991E-09
NNW	1.217E-05	2.897E-06	9.449E-07	4.921E-07	3.123E-07	1.434E-07	5.437E-08	2.790E-08	1.815E-08	1.321E-08
N	1.158E-05	2.779E-06	9.160E-07	4.797E-07	3.057E-07	1.413E-07	5.407E-08	2.796E-08	1.826E-08	1.333E-08
NNE	4.976E-06	1.161E-06	3.750E-07	1.944E-07	1.231E-07	5.643E-08	2.139E-08	1.100E-08	7.176E-09	5.232E-09
NE	2.958E-06	6.981E-07	2.263E-07	1.175E-07	7.439E-08	3.404E-08	1.284E-08	6.571E-09	4.269E-09	3.104E-09
ENE	2.587E-06	6.188E-07	1.953E-07	9.974E-08	6.245E-08	2.804E-08	1.025E-08	5.116E-09	3.270E-09	2.349E-09
E	2.284E-06	5.280E-07	1.597E-07	7.968E-08	4.907E-08	2.148E-08	7.552E-09	3.661E-09	2.299E-09	1.630E-09
ESE	4.252E-06	9.875E-07	3.044E-07	1.536E-07	9.537E-08	4.227E-08	1.517E-08	7.477E-09	4.747E-09	3.393E-09
SE	5.844E-06	1.357E-06	4.211E-07	2.132E-07	1.327E-07	5.907E-08	2.134E-08	1.058E-08	6.742E-09	4.834E-09
SSE	7.088E-06	1.658E-06	5.261E-07	2.698E-07	1.695E-07	7.658E-08	2.834E-08	1.430E-08	9.216E-09	6.661E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

SECTOR	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)										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	5.000	5.500	6.000	6.500	7.000	7.500	8.000	8.500	9.000
S	3.868E-05	1.252E-05	6.565E-06	3.275E-06	1.336E-06	7.303E-07	4.661E-07	3.271E-07	2.445E-07	1.913E-07	1.549E-07	1.281E-07	1.068E-07	8.891E-08	7.415E-08	6.187E-08	5.168E-08	4.319E-08	3.608E-08	3.000E-08
SSW	2.381E-05	7.468E-06	3.799E-06	2.026E-06	8.262E-07	4.515E-07	2.879E-07	2.019E-07	1.508E-07	1.179E-07	9.535E-08	7.891E-08	6.568E-08	5.415E-08	4.415E-08	3.568E-08	2.868E-08	2.319E-08	1.900E-08	1.579E-08
SW	1.002E-05	3.262E-06	1.730E-06	8.660E-07	3.493E-07	1.895E-07	1.203E-07	8.399E-08	6.255E-08	4.878E-08	3.936E-08	3.219E-08	2.618E-08	2.125E-08	1.725E-08	1.408E-08	1.158E-08	9.415E-09	7.618E-09	6.187E-09
WSW	1.038E-05	3.436E-06	1.825E-06	9.124E-07	3.657E-07	1.975E-07	1.248E-07	8.690E-08	6.455E-08	5.021E-08	4.044E-08	3.281E-08	2.681E-08	2.219E-08	1.819E-08	1.479E-08	1.189E-08	9.618E-09	7.718E-09	6.218E-09
W	1.330E-05	4.442E-06	2.345E-06	1.167E-06	4.683E-07	2.532E-07	1.602E-07	1.117E-07	8.302E-08	6.464E-08	5.209E-08	4.219E-08	3.419E-08	2.719E-08	2.119E-08	1.619E-08	1.219E-08	9.19E-09	7.19E-09	5.69E-09
WNW	1.340E-05	4.503E-06	2.383E-06	1.183E-06	4.675E-07	2.503E-07	1.573E-07	1.090E-07	8.065E-08	6.256E-08	5.025E-08	4.019E-08	3.219E-08	2.519E-08	1.919E-08	1.419E-08	1.019E-08	7.69E-09	6.09E-09	4.89E-09
NW	4.121E-05	1.321E-05	6.912E-06	3.446E-06	1.403E-06	7.666E-07	4.891E-07	3.431E-07	2.565E-07	2.007E-07	1.625E-07	1.325E-07	1.075E-07	8.65E-08	6.95E-08	5.55E-08	4.45E-08	3.55E-08	2.85E-08	2.25E-08
NNW	7.343E-05	2.339E-05	1.243E-05	6.264E-06	2.575E-06	1.415E-06	9.065E-07	6.379E-07	4.781E-07	3.748E-07	3.039E-07	2.479E-07	2.019E-07	1.619E-07	1.279E-07	1.019E-07	8.019E-08	6.419E-08	5.119E-08	4.019E-08
N	7.178E-05	2.224E-05	1.182E-05	5.979E-06	2.476E-06	1.367E-06	8.789E-07	6.202E-07	4.659E-07	3.659E-07	2.972E-07	2.419E-07	1.919E-07	1.519E-07	1.179E-07	9.19E-08	7.19E-08	5.69E-08	4.49E-08	3.59E-08
NNE	3.050E-05	9.686E-06	5.059E-06	2.522E-06	1.028E-06	5.623E-07	3.590E-07	2.520E-07	1.885E-07	1.476E-07	1.195E-07	9.519E-08	7.619E-08	6.119E-08	4.919E-08	3.919E-08	3.019E-08	2.319E-08	1.819E-08	1.419E-08
NE	1.792E-05	5.715E-06	3.016E-06	1.513E-06	6.193E-07	3.393E-07	2.168E-07	1.523E-07	1.140E-07	8.922E-08	7.225E-08	5.819E-08	4.619E-08	3.619E-08	2.819E-08	2.219E-08	1.719E-08	1.319E-08	1.019E-08	7.819E-09
ENE	1.483E-05	4.878E-06	2.673E-06	1.358E-06	5.459E-07	2.953E-07	1.869E-07	1.303E-07	9.683E-08	7.538E-08	6.074E-08	4.919E-08	3.919E-08	3.019E-08	2.319E-08	1.819E-08	1.419E-08	1.019E-08	7.819E-09	6.219E-09
E	1.239E-05	4.346E-06	2.365E-06	1.183E-06	4.621E-07	2.453E-07	1.531E-07	1.055E-07	7.771E-08	6.003E-08	4.805E-08	3.819E-08	3.019E-08	2.319E-08	1.819E-08	1.419E-08	1.019E-08	7.819E-09	6.219E-09	4.919E-09
ESE	2.346E-05	8.123E-06	4.387E-06	2.194E-06	8.677E-07	4.646E-07	2.919E-07	2.023E-07	1.497E-07	1.161E-07	9.326E-08	7.419E-08	5.919E-08	4.719E-08	3.719E-08	2.819E-08	2.119E-08	1.619E-08	1.219E-08	9.419E-09
SE	3.294E-05	1.120E-05	6.012E-06	3.006E-06	1.193E-06	6.407E-07	4.033E-07	2.799E-07	2.074E-07	1.610E-07	1.294E-07	1.019E-07	8.019E-08	6.419E-08	5.119E-08	4.019E-08	3.119E-08	2.419E-08	1.819E-08	1.419E-08
SSE	4.195E-05	1.366E-05	7.248E-06	3.631E-06	1.464E-06	7.939E-07	5.036E-07	3.516E-07	2.618E-07	2.041E-07	1.647E-07	1.325E-07	1.075E-07	8.65E-08	6.95E-08	5.55E-08	4.45E-08	3.55E-08	2.85E-08	2.25E-08

BEARING	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)										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	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000
S	1.287E-07	6.693E-08	4.360E-08	2.501E-08	1.681E-08	1.232E-08	9.523E-09	7.640E-09	6.297E-09	5.298E-09	4.530E-09	3.919E-09	3.319E-09	2.819E-09	2.419E-09	2.019E-09	1.719E-09	1.419E-09	1.119E-09	9.19E-10
SSW	7.917E-08	4.107E-08	2.669E-08	1.524E-08	1.020E-08	7.443E-09	5.732E-09	4.582E-09	3.763E-09	3.155E-09	2.688E-09	2.288E-09	1.948E-09	1.648E-09	1.388E-09	1.148E-09	9.28E-10	7.58E-10	6.28E-10	5.18E-10
SW	3.262E-08	1.678E-08	1.085E-08	6.157E-09	4.108E-09	2.991E-09	2.300E-09	1.836E-09	1.506E-09	1.262E-09	1.075E-09	9.019E-10	7.519E-10	6.219E-10	5.119E-10	4.119E-10	3.219E-10	2.519E-10	1.919E-10	1.419E-10
WSW	3.345E-08	1.710E-08	1.100E-08	6.202E-09	4.120E-09	2.990E-09	2.293E-09	1.827E-09	1.496E-09	1.252E-09	1.065E-09	8.919E-10	7.419E-10	6.119E-10	5.019E-10	4.019E-10	3.119E-10	2.419E-10	1.819E-10	1.419E-10
W	4.312E-08	2.211E-08	1.426E-08	8.068E-09	5.371E-09	3.905E-09	3.000E-09	2.395E-09	1.965E-09	1.647E-09	1.403E-09	1.169E-09	9.619E-10	7.819E-10	6.419E-10	5.219E-10	4.219E-10	3.319E-10	2.519E-10	1.919E-10
WNW	4.150E-08	2.113E-08	1.357E-08	7.642E-09	5.084E-09	3.697E-09	2.842E-09	2.271E-09	1.865E-09	1.565E-09	1.336E-09	1.119E-09	9.19E-10	7.419E-10	6.019E-10	4.919E-10	4.019E-10	3.219E-10	2.519E-10	1.919E-10
NW	1.350E-07	7.033E-08	4.586E-08	2.635E-08	1.775E-08	1.302E-08	1.007E-08	8.090E-09	6.672E-09	5.617E-09	4.806E-09	4.019E-09	3.319E-09	2.719E-09	2.219E-09	1.819E-09	1.419E-09	1.119E-09	9.19E-10	7.419E-10
NNW	2.529E-07	1.323E-07	8.652E-08	4.988E-08	3.364E-08	2.470E-08	1.914E-08	1.538E-08	1.270E-08	1.070E-08	9.162E-09	7.619E-09	6.219E-09	5.019E-09	4.019E-09	3.219E-09	2.519E-09	1.919E-09	1.419E-09	1.119E-09
N	2.477E-07	1.303E-07	8.546E-08	4.949E-08	3.348E-08	2.463E-08	1.911E-08	1.538E-08	1.270E-08	1.071E-08	9.172E-09	7.619E-09	6.219E-09	5.019E-09	4.019E-09	3.219E-09	2.519E-09	1.919E-09	1.419E-09	1.119E-09
NNE	9.936E-08	5.184E-08	3.383E-08	1.946E-08	1.311E-08	9.621E-09	7.445E-09	5.976E-09	4.927E-09	4.146E-09	3.545E-09	3.019E-09	2.519E-09	2.019E-09	1.619E-09	1.319E-09	1.019E-09	8.19E-10	6.619E-10	5.319E-10
NE	6.006E-08	3.128E-08	2.039E-08	1.170E-08	7.862E-09	5.755E-09	4.445E-09	3.562E-09	2.933E-09	2.465E-09	2.105E-09	1.781E-09	1.481E-09	1.201E-09	9.819E-10	8.019E-10	6.519E-10	5.219E-10	4.119E-10	3.219E-10
ENE	5.028E-08	2.577E-08	1.661E-08	9.389E-09	6.246E-09	4.539E-09	3.487E-09	2.783E-09	2.283E-09	1.914E-09	1.631E-09	1.381E-09	1.141E-09	9.419E-10	7.719E-10	6.319E-10	5.119E-10	4.019E-10	3.119E-10	2.419E-10
E	3.956E-08	1.990E-08	1.268E-08	7.069E-09	4.675E-09	3.388E-09	2.602E-09	2.078E-09	1.709E-09	1.437E-09	1.229E-09	1.019E-09	8.319E-10	6.819E-10	5.519E-10	4.419E-10	3.519E-10	2.719E-10	2.019E-10	1.519E-10
ESE	7.699E-08	3.911E-08	2.508E-08	1.411E-08	9.381E-09	6.823E-09	5.251E-09	4.201E-09	3.457E-09	2.907E-09	2.486E-09	2.079E-09	1.719E-09	1.419E-09	1.149E-09	9.319E-10	7.619E-10	6.219E-10	5.019E-10	4.019E-10
SE	1.069E-07	5.442E-08	3.494E-08	1.966E-08	1.307E-08	9.493E-09	7.294E-09	5.825E-09	4.784E-09	4.014E-09	3.425E-09	2.819E-09	2.319E-09	1.919E-09	1.519E-09	1.219E-09	1.019E-09	8.19E-10	6.619E-10	5.319E-10
SSE	1.365E-07	7.030E-08	4.548E-08	2.584E-08	1.725E-08	1.257E-08	9.671E-09	7.728E-09	6.347E-09	5.322E-09	4.537E-09	3.819E-09	3.119E-09	2.519E-09	2.019E-09	1.619E-09	1.319E-09	1.019E-09	8.19E-10	6.619E-10

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

SEGMENT BOUNDARIES IN MILES										
DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.426E-06	1.498E-06	4.809E-07	2.478E-07	1.560E-07	7.028E-08	2.550E-08	1.240E-08	7.666E-09	5.309E-09
SSW	3.893E-06	9.262E-07	2.971E-07	1.528E-07	9.604E-08	4.315E-08	1.554E-08	7.494E-09	4.598E-09	3.162E-09
SW	1.686E-06	3.931E-07	1.242E-07	6.343E-08	3.965E-08	1.767E-08	6.289E-09	3.012E-09	1.843E-09	1.265E-09
WSW	1.777E-06	4.124E-07	1.290E-07	6.547E-08	4.075E-08	1.802E-08	6.343E-09	3.012E-09	1.834E-09	1.255E-09
W	2.288E-06	5.280E-07	1.656E-07	8.420E-08	5.249E-08	2.329E-08	8.245E-09	3.934E-09	2.404E-09	1.651E-09
WNW	2.321E-06	5.300E-07	1.628E-07	8.185E-08	5.066E-08	2.230E-08	7.822E-09	3.725E-09	2.280E-09	1.569E-09
NW	6.771E-06	1.574E-06	5.047E-07	2.600E-07	1.636E-07	7.383E-08	2.686E-08	1.310E-08	8.117E-09	5.629E-09
NNW	1.213E-05	2.879E-06	9.347E-07	4.844E-07	3.061E-07	1.388E-07	5.080E-08	2.486E-08	1.543E-08	1.072E-08
N	1.154E-05	2.762E-06	9.056E-07	4.719E-07	2.992E-07	1.364E-07	5.037E-08	2.478E-08	1.542E-08	1.073E-08
NNE	4.960E-06	1.153E-06	3.704E-07	1.911E-07	1.204E-07	5.440E-08	1.983E-08	9.682E-09	5.996E-09	4.155E-09
NE	2.948E-06	6.935E-07	2.237E-07	1.155E-07	7.276E-08	3.284E-08	1.193E-08	5.793E-09	3.575E-09	2.470E-09
ENE	2.579E-06	6.150E-07	1.932E-07	9.821E-08	6.120E-08	2.715E-08	9.597E-09	4.573E-09	2.794E-09	1.919E-09
E	2.280E-06	5.260E-07	1.586E-07	7.891E-08	4.845E-08	2.106E-08	7.251E-09	3.417E-09	2.087E-09	1.440E-09
ESE	4.243E-06	9.834E-07	3.021E-07	1.519E-07	9.401E-08	4.129E-08	1.444E-08	6.876E-09	4.218E-09	2.914E-09
SE	5.829E-06	1.350E-06	4.173E-07	2.104E-07	1.304E-07	5.743E-08	2.013E-08	9.566E-09	5.848E-09	4.024E-09
SSE	7.066E-06	1.648E-06	5.202E-07	2.655E-07	1.659E-07	7.398E-08	2.639E-08	1.266E-08	7.757E-09	5.335E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 1995
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	3.664E-05	1.145E-05	5.865E-06	2.876E-06	1.140E-06	6.087E-07	3.807E-07	2.624E-07	1.930E-07	1.489E-07	1.189E-07
SSW	2.255E-05	6.832E-06	3.573E-06	1.779E-06	7.055E-07	3.766E-07	2.354E-07	1.621E-07	1.192E-07	9.185E-08	7.330E-08
SW	9.488E-06	2.983E-06	1.545E-06	7.605E-07	2.982E-07	1.580E-07	9.827E-08	6.741E-08	4.941E-08	3.797E-08	3.023E-08
WSW	9.834E-06	3.142E-06	1.630E-06	8.012E-07	3.121E-07	1.646E-07	1.020E-07	6.972E-08	5.096E-08	3.907E-08	3.104E-08
W	1.259E-05	4.063E-06	2.094E-06	1.025E-06	3.996E-07	2.110E-07	1.308E-07	8.956E-08	6.552E-08	5.027E-08	3.997E-08
WNW	1.269E-05	4.118E-06	2.128E-06	1.038E-06	3.987E-07	2.084E-07	1.283E-07	8.731E-08	6.357E-08	4.859E-08	3.850E-08
NW	3.903E-05	1.208E-05	6.174E-06	3.026E-06	1.197E-06	6.389E-07	3.994E-07	2.752E-07	2.025E-07	1.561E-07	1.247E-07
NNW	6.955E-05	2.140E-05	1.111E-05	5.501E-06	2.197E-06	1.179E-06	7.402E-07	5.116E-07	3.773E-07	2.915E-07	2.332E-07
N	6.799E-05	2.034E-05	1.056E-05	5.251E-06	2.113E-06	1.140E-06	7.180E-07	4.977E-07	3.679E-07	2.848E-07	2.282E-07
NNE	2.889E-05	8.861E-06	4.520E-06	2.215E-06	8.777E-07	4.689E-07	2.934E-07	2.024E-07	1.490E-07	1.150E-07	9.185E-08
NE	1.698E-05	5.228E-06	2.695E-06	1.329E-06	5.286E-07	2.829E-07	1.772E-07	1.222E-07	9.002E-08	6.946E-08	5.551E-08
ENE	1.405E-05	4.462E-06	2.387E-06	1.193E-06	4.658E-07	2.461E-07	1.526E-07	1.045E-07	7.641E-08	5.862E-08	4.660E-08
E	1.173E-05	3.973E-06	2.110E-06	1.038E-06	3.937E-07	2.039E-07	1.246E-07	8.430E-08	6.106E-08	4.646E-08	3.666E-08
ESE	2.221E-05	7.425E-06	3.916E-06	1.925E-06	7.394E-07	3.865E-07	2.378E-07	1.618E-07	1.177E-07	8.995E-08	7.125E-08
SE	3.119E-05	1.024E-05	5.368E-06	2.638E-06	1.018E-06	5.334E-07	3.290E-07	2.242E-07	1.634E-07	1.250E-07	9.908E-08
SSE	3.974E-05	1.250E-05	6.474E-06	3.188E-06	1.249E-06	6.618E-07	4.114E-07	2.821E-07	2.067E-07	1.588E-07	1.264E-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	9.755E-08	4.840E-08	3.031E-08	1.637E-08	1.052E-08	7.429E-09	5.569E-09	4.351E-09	3.503E-09	2.887E-09	2.422E-09
SSW	6.012E-08	2.978E-09	1.862E-08	1.003E-08	6.426E-09	4.527E-09	3.387E-09	2.641E-09	2.123E-09	1.746E-09	1.463E-09
SW	2.475E-08	1.215E-08	7.557E-09	4.043E-09	2.581E-09	1.813E-09	1.354E-09	1.054E-09	8.458E-10	6.950E-10	5.817E-10
WSW	2.536E-08	1.237E-08	7.652E-09	4.066E-09	2.583E-09	1.808E-09	1.346E-09	1.045E-09	8.369E-10	6.864E-10	5.736E-10
W	3.267E-08	1.598E-08	9.908E-09	5.278E-09	3.358E-09	2.353E-09	1.753E-09	1.363E-09	1.093E-09	8.968E-10	7.500E-10
WNW	3.140E-08	1.523E-08	9.394E-09	4.974E-09	3.156E-09	2.208E-09	1.644E-09	1.276E-09	1.023E-09	8.389E-10	7.014E-10
NW	1.023E-07	5.085E-08	3.188E-08	1.725E-08	1.110E-08	7.851E-09	5.892E-09	4.607E-09	3.712E-09	3.060E-09	2.569E-09
NNW	1.916E-07	9.561E-08	6.008E-08	3.260E-08	2.100E-08	1.485E-08	1.115E-08	8.721E-09	7.029E-09	5.796E-09	4.867E-09
N	1.878E-07	9.423E-08	5.944E-08	3.242E-08	2.096E-08	1.487E-08	1.118E-08	8.760E-09	7.070E-09	5.837E-09	4.906E-09
NNE	7.543E-08	3.756E-08	2.358E-08	1.279E-08	8.246E-09	5.838E-09	4.385E-09	3.431E-09	2.766E-09	2.282E-09	1.916E-09
NE	4.557E-08	2.266E-08	1.420E-08	7.682E-09	4.938E-09	3.487E-09	2.614E-09	2.042E-09	1.644E-09	1.354E-09	1.136E-09
ENE	3.809E-08	1.861E-08	1.153E-08	6.130E-09	3.893E-09	2.724E-09	2.027E-09	1.573E-09	1.260E-09	1.033E-09	8.632E-10
E	2.978E-08	1.424E-08	8.689E-09	4.530E-09	2.842E-09	1.971E-09	1.457E-09	1.125E-09	8.969E-10	7.330E-10	6.108E-10
ESE	5.806E-08	2.806E-08	1.725E-08	9.093E-09	5.748E-09	4.010E-09	2.978E-09	2.308E-09	1.846E-09	1.513E-09	1.263E-09
SE	8.081E-08	3.919E-08	2.415E-08	1.277E-08	8.087E-09	5.649E-09	4.198E-09	3.256E-09	2.606E-09	2.136E-09	1.784E-09
SSE	1.035E-07	5.086E-08	3.164E-08	1.693E-08	1.081E-08	7.595E-09	5.670E-09	4.414E-09	3.544E-09	2.912E-09	2.438E-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	5.778E-06	1.290E-06	3.942E-07	1.960E-07	1.199E-07	5.128E-08	1.687E-08	7.510E-09	4.376E-09	2.897E-09
SSW	3.500E-06	7.980E-07	2.437E-07	1.210E-07	7.392E-08	3.156E-08	1.034E-08	4.577E-09	2.657E-09	1.753E-09
SW	1.516E-06	3.386E-07	1.019E-07	5.020E-08	3.049E-08	1.291E-08	4.174E-09	1.834E-09	1.060E-09	6.977E-10
WSW	1.598E-06	3.552E-07	1.058E-07	5.179E-08	3.132E-08	1.316E-08	4.204E-09	1.830E-09	1.052E-09	6.892E-10
W	2.057E-06	4.547E-07	1.357E-07	6.658E-08	4.032E-08	1.699E-08	5.453E-09	2.381E-09	1.371E-09	9.004E-10
WNW	2.086E-06	4.563E-07	1.333E-07	6.465E-08	3.886E-08	1.623E-08	5.149E-09	2.235E-09	1.285E-09	8.424E-10
NW	6.087E-06	1.355E-06	4.136E-07	2.056E-07	1.257E-07	5.386E-08	1.777E-08	7.934E-09	4.633E-09	3.071E-09
NNW	1.090E-05	2.479E-06	7.658E-07	3.830E-07	2.351E-07	1.012E-07	3.355E-08	1.501E-08	8.771E-09	5.817E-09
N	1.037E-05	2.378E-06	7.423E-07	3.733E-07	2.300E-07	9.956E-08	3.333E-08	1.502E-08	8.809E-09	5.857E-09
NNE	4.460E-06	9.932E-07	3.038E-07	1.513E-07	9.261E-08	3.976E-08	1.317E-08	5.899E-09	3.450E-09	2.290E-09
NE	2.651E-06	5.973E-07	1.834E-07	9.140E-08	5.596E-08	2.399E-08	7.911E-09	3.525E-09	2.054E-09	1.359E-09
ENE	2.317E-06	5.297E-07	1.583E-07	7.765E-08	4.701E-08	1.979E-08	6.335E-09	2.757E-09	1.583E-09	1.037E-09
E	2.048E-06	4.525E-07	1.296E-07	6.214E-08	3.702E-08	1.523E-08	4.704E-09	1.997E-09	1.133E-09	7.363E-10
ESE	3.811E-06	8.460E-07	2.470E-07	1.197E-07	7.191E-08	2.992E-08	9.420E-09	4.061E-09	2.323E-09	1.519E-09
SE	5.238E-06	1.162E-06	3.416E-07	1.661E-07	9.998E-08	4.176E-08	1.322E-08	5.718E-09	3.277E-09	2.145E-09
SSE	6.352E-06	1.419E-06	4.264E-07	2.100E-07	1.275E-07	5.401E-08	1.748E-08	7.682E-09	4.442E-09	2.924E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 1995

CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

RELATIVE DEPOSITION PER UNIT AREA (MM ³ /Y) 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	1.362E-07	4.607E-08	2.365E-08	1.124E-08	4.039E-09	2.003E-09	1.179E-09	7.723E-10	5.434E-10	4.027E-10	3.104E-10
SSW	6.441E-08	2.178E-08	1.118E-08	5.316E-09	1.910E-09	9.470E-10	5.576E-10	3.651E-10	2.569E-10	1.904E-10	1.467E-10
SW	3.484E-08	1.178E-08	6.049E-09	2.876E-09	1.033E-09	5.123E-10	3.016E-10	1.975E-10	1.390E-10	1.030E-10	7.937E-11
WSW	3.695E-08	1.250E-08	6.416E-09	3.050E-09	1.096E-09	5.433E-10	3.199E-10	2.095E-10	1.474E-10	1.092E-10	8.418E-11
W	5.490E-08	1.856E-08	9.532E-09	4.532E-09	1.628E-09	8.072E-10	4.753E-10	3.112E-10	2.190E-10	1.623E-10	1.251E-10
WNW	7.388E-08	2.498E-08	1.283E-08	6.098E-09	2.191E-09	1.086E-09	6.397E-10	4.188E-10	2.947E-10	2.184E-10	1.683E-10
NW	1.742E-07	5.891E-08	3.025E-08	1.438E-08	5.166E-09	2.562E-09	1.508E-09	9.877E-10	6.950E-10	5.151E-10	3.969E-10
NNW	2.481E-07	8.391E-08	4.308E-08	2.048E-08	7.357E-09	3.649E-09	2.148E-09	1.407E-09	9.899E-10	7.336E-10	5.653E-10
N	2.249E-07	7.607E-08	3.906E-08	1.857E-08	6.670E-09	3.308E-09	1.948E-09	1.275E-09	8.973E-10	6.650E-10	5.125E-10
NNE	1.172E-07	3.964E-08	2.035E-08	9.675E-09	3.475E-09	1.724E-09	1.015E-09	6.645E-10	4.676E-10	3.465E-10	2.670E-10
NE	5.703E-08	1.928E-08	9.902E-09	4.707E-09	1.691E-09	8.386E-10	4.938E-10	3.233E-10	2.275E-10	1.686E-10	1.299E-10
ENE	5.488E-08	1.856E-08	9.528E-09	4.530E-09	1.627E-09	8.069E-10	4.751E-10	3.111E-10	2.189E-10	1.622E-10	1.250E-10
E	9.918E-08	3.354E-08	1.722E-08	8.187E-09	2.941E-09	1.458E-09	8.507E-10	5.623E-10	3.957E-10	2.932E-10	2.260E-10
ESE	1.836E-07	6.209E-08	3.188E-08	1.516E-08	5.444E-09	2.700E-09	1.590E-09	1.041E-09	7.325E-10	5.428E-10	4.183E-10
SE	2.163E-07	7.316E-08	3.756E-08	1.786E-08	6.415E-09	3.181E-09	1.873E-09	1.227E-09	8.630E-10	6.396E-10	4.929E-10
SSE	1.847E-07	6.247E-08	3.207E-08	1.525E-08	5.477E-09	2.716E-09	1.599E-09	1.047E-09	7.369E-10	5.461E-10	4.209E-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	2.466E-10	1.095E-10	6.635E-11	3.354E-11	2.030E-11	1.361E-11	9.751E-12	7.322E-12	5.693E-12	4.548E-12	3.712E-12
SSW	1.166E-10	5.178E-11	3.137E-11	1.585E-11	9.596E-12	6.434E-12	4.610E-12	3.462E-12	2.692E-12	2.150E-12	1.755E-12
SW	6.306E-11	2.801E-11	1.697E-11	8.577E-12	5.191E-12	3.480E-12	2.494E-12	1.873E-12	1.456E-12	1.163E-12	9.494E-13
WSW	6.688E-11	2.971E-11	1.800E-11	9.096E-12	5.505E-12	3.691E-12	2.645E-12	1.986E-12	1.544E-12	1.234E-12	1.007E-12
W	9.936E-11	4.414E-11	2.674E-11	1.351E-11	8.180E-12	5.484E-12	3.930E-12	2.951E-12	2.294E-12	1.833E-12	1.496E-12
WNW	1.337E-10	5.940E-11	3.598E-11	1.819E-11	1.101E-11	7.381E-12	5.289E-12	3.971E-12	3.088E-12	2.466E-12	2.013E-12
NW	3.153E-10	1.401E-10	8.485E-11	4.289E-11	2.596E-11	1.740E-11	1.247E-11	9.365E-12	7.281E-12	5.816E-12	4.747E-12
NNW	4.491E-10	1.995E-10	1.209E-10	6.109E-11	3.697E-11	2.479E-11	1.776E-11	1.334E-11	1.037E-11	8.284E-12	6.762E-12
N	4.071E-10	1.809E-10	1.096E-10	5.537E-11	3.352E-11	2.247E-11	1.610E-11	1.209E-11	9.461E-12	7.510E-12	6.129E-12
NNE	2.121E-10	9.424E-11	5.709E-11	2.885E-11	1.746E-11	1.171E-11	8.390E-12	6.300E-12	4.899E-12	3.913E-12	3.194E-12
NE	1.032E-10	4.585E-11	2.778E-11	1.404E-11	8.497E-12	5.697E-12	4.082E-12	3.065E-12	2.383E-12	1.904E-12	1.554E-12
ENE	9.932E-11	4.412E-11	2.673E-11	1.351E-11	8.177E-12	5.482E-12	3.928E-12	2.950E-12	2.293E-12	1.832E-12	1.495E-12
E	1.795E-10	7.975E-11	4.831E-11	2.442E-11	1.478E-11	9.908E-12	7.100E-12	5.331E-12	4.145E-12	3.311E-12	2.703E-12
ESE	3.323E-10	1.476E-10	8.943E-11	4.520E-11	2.736E-11	1.834E-11	1.314E-11	9.869E-12	7.674E-12	6.130E-12	5.003E-12
SE	3.916E-10	1.739E-10	1.054E-10	5.326E-11	3.223E-11	2.161E-11	1.549E-11	1.163E-11	9.042E-12	7.223E-12	5.895E-12
SSE	3.343E-10	1.485E-10	8.997E-11	4.548E-11	2.752E-11	1.845E-11	1.322E-11	9.929E-12	7.720E-12	6.167E-12	5.034E-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	2.312E-08	4.735E-09	1.236E-09	5.552E-10	3.141E-10	1.208E-10	3.494E-11	1.385E-11	7.396E-12	4.578E-12
SSW	1.093E-08	2.239E-09	5.845E-10	2.625E-10	1.485E-10	5.711E-11	1.652E-11	6.548E-12	3.497E-12	2.164E-12
SW	5.913E-09	1.211E-09	3.162E-10	1.420E-10	8.033E-11	3.089E-11	6.937E-12	3.542E-12	1.891E-12	1.171E-12
WSW	6.271E-09	1.284E-09	3.353E-10	1.506E-10	8.520E-11	3.276E-11	9.478E-12	3.757E-12	2.006E-12	1.242E-12
W	9.317E-09	1.908E-09	4.982E-10	2.237E-10	1.266E-10	4.868E-11	1.408E-11	5.581E-12	2.980E-12	1.845E-12
WNW	1.254E-08	2.568E-09	6.704E-10	3.011E-10	1.703E-10	6.551E-11	1.895E-11	7.511E-12	4.011E-12	2.483E-12
NW	2.957E-08	6.056E-09	1.581E-09	7.101E-10	4.017E-10	1.545E-10	4.469E-11	1.771E-11	9.459E-12	5.854E-12
NNW	4.211E-08	8.626E-09	2.252E-09	1.011E-09	5.721E-10	2.200E-10	6.365E-11	2.523E-11	1.347E-11	8.338E-12
N	3.817E-08	7.819E-09	2.041E-09	9.168E-10	5.186E-10	1.994E-10	5.770E-11	2.287E-11	1.221E-11	7.559E-12
NNE	1.989E-08	4.075E-09	1.064E-09	4.777E-10	2.703E-10	1.039E-10	3.007E-11	1.192E-11	6.364E-12	3.939E-12
NE	9.678E-09	1.982E-09	5.175E-10	2.324E-10	1.315E-10	5.057E-11	1.463E-11	5.798E-12	3.096E-12	1.916E-12
ENE	9.313E-09	1.908E-09	4.980E-10	2.237E-10	1.265E-10	4.866E-11	1.408E-11	5.579E-12	2.979E-12	1.844E-12
E	1.683E-08	3.448E-09	9.001E-10	4.042E-10	2.287E-10	8.794E-11	2.544E-11	1.008E-11	5.385E-12	3.333E-12
ESE	3.116E-08	6.383E-09	1.666E-09	7.484E-10	4.234E-10	1.628E-10	4.710E-11	1.867E-11	9.968E-12	6.170E-12
SE	3.672E-08	7.521E-09	1.963E-09	8.818E-10	4.988E-10	1.918E-10	5.549E-11	2.199E-11	1.175E-11	7.270E-12
SSE	3.135E-08	6.422E-09	1.676E-09	7.529E-10	4.259E-10	1.638E-10	4.739E-11	1.878E-11	1.003E-11	6.208E-12

VENTS GROUND LEVEL RELEASES - OCT-DEC 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(PER SQ.METER)
					NO DECAY UNDEPLETED	2.260 DAY DECAY UNDEPLETED	8.000 DAY DECAY DEPLETED	
A	SITE BOUNDARY	S	0.88	1287.	5.652E-06	5.632E-06	5.613E-06	2.011E-08
A	SITE BOUNDARY	SSW	0.82	1327.	3.211E-06	3.198E-06	2.842E-06	8.775E-09
A	SITE BOUNDARY	SW	0.98	1569.	9.219E-07	9.178E-07	8.073E-07	3.069E-09
A	SITE BOUNDARY	WSW	0.93	1489.	1.102E-06	1.097E-06	9.680E-07	3.727E-09
A	SITE BOUNDARY	W	0.91	1468.	1.459E-06	1.453E-06	1.284E-06	5.745E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.385E-06	1.380E-06	1.216E-06	7.198E-09
A	SITE BOUNDARY	NW	0.81	1307.	5.725E-06	5.705E-06	5.073E-06	2.470E-08
A	SITE BOUNDARY	NNW	0.69	1106.	1.425E-05	1.420E-05	1.275E-05	4.990E-08
A	SITE BOUNDARY	N	0.67	1086.	1.391E-05	1.386E-05	1.246E-05	4.664E-08
A	SITE BOUNDARY	NNE	0.60	965.	7.252E-06	7.231E-06	6.540E-06	2.945E-08
A	SITE BOUNDARY	NE	0.62	1005.	4.014E-06	4.003E-06	3.610E-06	1.347E-08
A	SITE BOUNDARY	ENE	0.59	945.	3.830E-06	3.820E-06	3.460E-06	1.427E-08
A	SITE BOUNDARY	E	0.53	845.	4.038E-06	4.032E-06	3.675E-06	3.097E-08
A	SITE BOUNDARY	ESE	0.54	865.	7.279E-06	7.267E-06	6.614E-06	5.519E-08
A	SITE BOUNDARY	SE	0.65	1046.	7.502E-06	7.485E-06	6.734E-06	4.777E-08
A	SITE BOUNDARY	SSE	0.81	1307.	6.016E-06	5.994E-06	5.331E-06	2.619E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	4.811E-07	4.782E-07	4.125E-07	1.475E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	5.047E-07	5.017E-07	4.328E-07	1.564E-09
A	NEAR. RESIDENCE	W	1.00	1609.	1.172E-06	1.167E-06	1.025E-06	4.532E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	4.080E-07	4.055E-07	3.441E-07	1.869E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	4.448E-06	4.431E-06	3.916E-06	1.890E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.585E-06	1.571E-06	1.315E-06	4.129E-09
A	NEAR. RESIDENCE	N	3.00	4828.	6.291E-07	6.202E-07	4.977E-07	1.275E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.130E-07	3.088E-07	2.506E-07	8.480E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	4.197E-07	4.165E-07	3.519E-07	1.196E-09
A	NEAR. RESIDENCE	E	1.80	2897.	3.099E-07	3.084E-07	2.587E-07	1.881E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	3.198E-07	3.174E-07	2.596E-07	1.749E-09
A	NEAREST COW	NNW	3.50	5633.	4.857E-07	4.780E-07	3.773E-07	9.897E-10
A	NEAREST GARDEN	SW	1.30	2092.	4.811E-07	4.782E-07	4.125E-07	1.475E-09
A	NEAREST GARDEN	WSW	1.80	2897.	2.687E-07	2.667E-07	2.075E-07	7.009E-10
A	NEAREST GARDEN	WNW	1.60	2575.	4.080E-07	4.055E-07	3.441E-07	1.869E-09
A	NEAREST GARDEN	NW	2.80	4506.	3.969E-07	3.919E-07	3.165E-07	1.158E-09
A	NEAREST GARDEN	NNW	1.90	3058.	1.585E-06	1.571E-06	1.315E-06	4.129E-09
A	NEAREST GARDEN	N	3.00	4828.	6.291E-07	6.202E-07	4.977E-07	1.275E-09
A	NEAREST GARDEN	ENE	1.70	2736.	4.197E-07	4.165E-07	3.519E-07	1.196E-09
A	NEAREST GARDEN	E	1.80	2897.	3.099E-07	3.084E-07	2.587E-07	1.881E-09
A	NEAREST GARDEN	ESE	2.40	3863.	3.198E-07	3.174E-07	2.596E-07	1.749E-09

Atmospheric Diffusion Estimates

Ground Level Releases

July-December 1995

VENTS GROUND LEVEL RELEASES - JUL-DEC 1995
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	4.047E-05	1.331E-05	7.057E-06	3.530E-06	1.427E-06	7.764E-07	4.940E-07	3.459E-07	2.584E-07	2.020E-07	1.635E-07	
SSW	2.283E-05	7.384E-06	3.967E-06	2.003E-06	8.102E-07	4.406E-07	2.802E-07	1.961E-07	1.464E-07	1.144E-07	9.250E-08	
SW	9.324E-06	3.110E-06	1.666E-06	8.348E-07	3.356E-07	1.818E-07	1.154E-07	8.060E-08	6.008E-08	4.690E-08	3.790E-08	
WSW	9.304E-06	3.072E-06	1.654E-06	8.320E-07	3.323E-07	1.792E-07	1.132E-07	7.884E-08	5.859E-08	4.562E-08	3.678E-08	
W	1.029E-05	3.422E-06	1.817E-06	9.081E-07	3.656E-07	1.983E-07	1.259E-07	8.798E-08	6.559E-08	5.122E-08	4.139E-08	
WNW	1.111E-05	3.726E-06	1.992E-06	9.940E-07	3.927E-07	2.103E-07	1.322E-07	9.170E-08	6.794E-08	5.276E-08	4.244E-08	
NW	3.393E-05	1.121E-05	5.989E-06	3.004E-06	1.212E-06	6.585E-07	4.186E-07	2.929E-07	2.186E-07	1.708E-07	1.382E-07	
NNW	7.014E-05	2.262E-05	1.217E-05	6.155E-06	2.512E-06	1.375E-06	8.791E-07	6.178E-07	4.627E-07	3.626E-07	2.940E-07	
N	6.489E-05	2.042E-05	1.098E-05	5.572E-06	2.292E-06	1.261E-06	8.094E-07	5.706E-07	4.284E-07	3.366E-07	2.734E-07	
NNE	3.847E-05	1.211E-05	6.428E-06	3.240E-06	1.329E-06	7.305E-07	4.683E-07	3.299E-07	2.476E-07	1.945E-07	1.579E-07	
NE	1.583E-05	5.015E-06	2.673E-06	1.349E-06	5.520E-07	3.027E-07	1.937E-07	1.362E-07	1.021E-07	8.010E-08	6.499E-08	
ENE	1.289E-05	4.207E-06	2.302E-06	1.170E-06	4.701E-07	2.545E-07	1.613E-07	1.126E-07	8.387E-08	6.542E-08	5.282E-08	
E	1.180E-05	3.856E-06	2.039E-06	1.019E-06	4.110E-07	2.234E-07	1.421E-07	9.944E-08	7.424E-08	5.804E-08	4.696E-08	
ESE	1.625E-05	5.505E-06	2.987E-06	1.503E-06	5.973E-07	3.211E-07	2.024E-07	1.407E-07	1.044E-07	8.123E-08	6.542E-08	
SE	2.651E-05	8.701E-06	4.693E-06	2.368E-06	9.555E-07	5.190E-07	3.297E-07	2.306E-07	1.720E-07	1.344E-07	1.087E-07	
SSE	5.632E-05	1.792E-05	9.461E-06	4.751E-06	1.947E-06	1.069E-06	6.850E-07	4.823E-07	3.618E-07	2.840E-07	2.306E-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	1.358E-07	7.094E-08	4.651E-08	2.713E-08	1.859E-08	1.390E-08	1.098E-08	8.996E-09	7.578E-09	6.517E-09	5.697E-09	
SSW	7.684E-08	4.006E-08	2.623E-08	1.526E-08	1.044E-08	7.788E-09	6.140E-09	5.026E-09	4.229E-09	3.633E-09	3.173E-09	
SW	3.145E-08	1.634E-08	1.067E-08	6.190E-09	4.228E-09	3.152E-09	2.483E-09	2.031E-09	1.708E-09	1.467E-09	1.280E-09	
WSW	3.046E-08	1.569E-08	1.019E-08	5.870E-09	3.993E-09	2.968E-09	2.332E-09	1.904E-09	1.598E-09	1.370E-09	1.194E-09	
W	3.436E-08	1.785E-08	1.166E-08	6.770E-09	4.622E-09	3.445E-09	2.714E-09	2.220E-09	1.867E-09	1.603E-09	1.400E-09	
WNW	3.509E-08	1.798E-08	1.164E-08	6.674E-09	4.529E-09	3.361E-09	2.637E-09	2.151E-09	1.804E-09	1.545E-09	1.346E-09	
NW	1.148E-07	5.988E-08	3.922E-08	2.285E-08	1.565E-08	1.169E-08	9.222E-09	7.555E-09	6.360E-09	5.467E-09	4.777E-09	
NNW	2.448E-07	1.286E-07	8.469E-08	4.964E-08	3.412E-08	2.556E-08	2.021E-08	1.658E-08	1.398E-08	1.203E-08	1.052E-08	
N	2.280E-07	1.206E-07	7.972E-08	4.702E-08	3.246E-08	2.439E-08	1.934E-08	1.590E-08	1.343E-08	1.158E-08	1.014E-08	
NNE	1.317E-07	6.967E-08	4.609E-08	2.721E-08	1.881E-08	1.415E-08	1.123E-08	9.245E-09	7.815E-09	6.741E-09	5.908E-09	
NE	5.414E-08	2.853E-08	1.882E-08	1.107E-08	7.627E-09	5.726E-09	4.536E-09	3.728E-09	3.147E-09	2.712E-09	2.374E-09	
ENE	4.382E-08	2.274E-08	1.483E-08	8.588E-09	5.854E-09	4.357E-09	3.427E-09	2.800E-09	2.351E-09	2.017E-09	1.759E-09	
E	3.903E-08	2.041E-08	1.339E-08	7.823E-09	5.366E-09	4.015E-09	3.172E-09	2.601E-09	2.192E-09	1.886E-09	1.649E-09	
ESE	5.415E-08	2.786E-08	1.807E-08	1.038E-08	7.045E-09	5.275E-09	4.098E-09	3.340E-09	2.800E-09	2.397E-09	2.087E-09	
SE	9.023E-08	4.696E-08	3.071E-08	1.785E-08	1.220E-08	9.103E-09	7.174E-09	5.871E-09	4.938E-09	4.241E-09	3.703E-09	
SSE	1.922E-07	1.015E-07	6.708E-08	3.954E-08	2.730E-08	2.052E-08	1.627E-08	1.338E-08	1.131E-08	9.749E-09	8.542E-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	6.879E-06	1.605E-06	5.101E-07	2.619E-07	1.647E-07	7.450E-08	2.764E-08	1.398E-08	9.021E-09	6.527E-09
SSW	3.854E-06	9.111E-07	2.893E-07	1.484E-07	9.319E-08	4.209E-08	1.555E-08	7.835E-09	5.041E-09	3.639E-09
SW	1.617E-06	3.782E-07	1.192E-07	6.093E-08	3.818E-08	1.718E-08	6.313E-09	3.171E-09	2.037E-09	1.469E-09
WSW	1.604E-06	3.753E-07	1.171E-07	5.943E-08	3.706E-08	1.653E-08	5.996E-09	2.987E-09	1.910E-09	1.373E-09
W	1.770E-06	4.118E-07	1.300E-07	6.651E-08	4.170E-08	1.877E-08	6.903E-09	3.466E-09	2.226E-09	1.606E-09
WNW	1.934E-06	4.453E-07	1.368E-07	6.895E-08	4.278E-08	1.896E-08	6.824E-09	3.383E-09	2.158E-09	1.548E-09
NW	5.922E-06	1.364E-06	4.323E-07	2.216E-07	1.392E-07	6.290E-08	2.328E-08	1.176E-08	7.576E-09	5.476E-09
NNW	1.182E-05	2.817E-06	9.069E-07	4.689E-07	2.961E-07	1.349E-07	5.053E-08	2.570E-08	1.663E-08	1.205E-08
N	1.067E-05	2.563E-06	8.344E-07	4.341E-07	2.753E-07	1.263E-07	4.781E-08	2.452E-08	1.595E-08	1.160E-08
NNE	6.273E-06	1.488E-06	4.829E-07	2.509E-07	1.591E-07	7.298E-08	2.767E-08	1.423E-08	9.268E-09	6.751E-09
NE	2.605E-06	6.184E-07	1.998E-07	1.035E-07	6.545E-08	2.991E-08	1.126E-08	5.757E-09	3.737E-09	2.716E-09
ENE	2.222E-06	5.298E-07	1.667E-07	6.505E-08	5.322E-08	2.391E-08	8.760E-09	4.384E-09	2.808E-09	2.020E-09
E	1.989E-06	4.627E-07	1.467E-07	7.527E-08	4.731E-08	2.143E-08	7.969E-09	4.038E-09	2.608E-09	1.889E-09
ESE	2.887E-06	6.758E-07	2.094E-07	1.060E-07	6.593E-08	2.935E-08	1.061E-08	5.260E-09	3.351E-09	2.402E-09
SE	4.550E-06	1.075E-06	3.406E-07	1.744E-07	1.095E-07	4.935E-08	1.820E-08	9.158E-09	5.888E-09	4.248E-09
SSE	9.247E-06	2.180E-06	7.064E-07	3.666E-07	2.322E-07	1.064E-07	4.022E-08	2.063E-08	1.342E-08	9.764E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE	CHI/Q (SEC/METER CUBED)			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		
SECTOR													
S	4.042E-05	1.328E-05	7.033E-06	3.514E-06	1.417E-06	7.694E-07	4.884E-07	3.412E-07	2.542E-07	1.983E-07	1.600E-07		
SSW	2.280E-05	7.366E-06	3.953E-06	1.994E-06	8.043E-07	4.363E-07	2.768E-07	1.932E-07	1.438E-07	1.121E-07	9.046E-08		
SW	9.312E-06	3.103E-06	1.660E-06	8.307E-07	3.331E-07	1.801E-07	1.139E-07	7.940E-08	5.903E-08	4.597E-08	3.704E-08		
WSW	9.294E-06	3.066E-06	1.648E-06	8.284E-07	3.301E-07	1.776E-07	1.120E-07	7.777E-08	5.766E-08	4.479E-08	3.603E-08		
W	1.028E-05	3.415E-06	1.811E-06	9.043E-07	3.633E-07	1.966E-07	1.245E-07	8.683E-08	6.460E-08	5.033E-08	4.058E-08		
WNW	1.110E-05	3.720E-06	1.986E-06	9.903E-07	3.905E-07	2.087E-07	1.310E-07	9.065E-08	6.703E-08	5.195E-08	4.170E-08		
NW	3.389E-05	1.119E-05	5.972E-06	2.993E-06	1.205E-06	6.535E-07	4.146E-07	2.895E-07	2.156E-07	1.682E-07	1.358E-07		
NNW	7.007E-05	2.257E-05	1.213E-05	6.128E-06	2.496E-06	1.363E-06	8.694E-07	6.095E-07	4.555E-07	3.562E-07	2.881E-07		
N	6.482E-05	2.038E-05	1.094E-05	5.549E-06	2.278E-06	1.251E-06	8.006E-07	5.631E-07	4.219E-07	3.307E-07	2.680E-07		
NNE	3.843E-05	1.208E-05	6.405E-06	3.225E-06	1.320E-06	7.234E-07	4.626E-07	3.251E-07	2.434E-07	1.907E-07	1.545E-07		
NE	1.581E-05	5.003E-06	2.664E-06	1.343E-06	5.481E-07	2.998E-07	1.913E-07	1.343E-07	1.004E-07	7.855E-08	6.357E-08		
ENE	1.288E-05	4.197E-06	2.294E-06	1.165E-06	4.669E-07	2.523E-07	1.595E-07	1.111E-07	8.255E-08	6.425E-08	5.176E-08		
E	1.179E-05	3.849E-06	2.033E-06	1.015E-06	4.087E-07	2.217E-07	1.407E-07	9.827E-08	7.321E-08	5.712E-08	4.611E-08		
ESE	1.624E-05	5.496E-06	2.980E-06	1.498E-06	5.942E-07	3.188E-07	2.007E-07	1.392E-07	1.031E-07	8.007E-08	6.436E-08		
SE	2.648E-05	8.683E-06	4.678E-06	2.358E-06	9.494E-07	5.145E-07	3.262E-07	2.276E-07	1.694E-07	1.321E-07	1.065E-07		
SSE	5.625E-05	1.787E-05	9.426E-06	4.728E-06	1.933E-06	1.059E-06	6.764E-07	4.750E-07	3.554E-07	2.783E-07	2.253E-07		

ANNUAL AVERAGE	CHI/Q (SEC/METER CUBED)			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		
BEARING													
S	1.327E-07	6.846E-08	4.434E-08	2.524E-08	1.688E-08	1.232E-08	9.496E-09	7.598E-09	6.248E-09	5.246E-09	4.477E-09		
SSW	7.496E-08	3.858E-08	2.494E-08	1.415E-08	9.434E-09	6.865E-09	5.277E-09	4.213E-09	3.457E-09	2.897E-09	2.467E-09		
SW	3.066E-08	1.572E-08	1.013E-08	5.729E-09	3.811E-09	2.768E-09	2.124E-09	1.693E-09	1.387E-09	1.161E-09	9.874E-10		
WSW	2.977E-08	1.515E-08	9.723E-09	5.467E-09	3.631E-09	2.635E-09	2.021E-09	1.611E-09	1.321E-09	1.106E-09	9.411E-10		
W	3.360E-08	1.726E-08	1.115E-08	6.323E-09	4.218E-09	3.072E-09	2.364E-09	1.890E-09	1.553E-09	1.303E-09	1.112E-09		
WNW	3.441E-08	1.746E-08	1.118E-08	6.284E-09	4.179E-09	3.038E-09	2.336E-09	1.867E-09	1.534E-09	1.288E-09	1.100E-09		
NW	1.126E-07	5.811E-08	3.767E-08	2.150E-08	1.442E-08	1.055E-08	8.157E-09	6.546E-09	5.400E-09	4.548E-09	3.893E-09		
NNW	2.393E-07	1.243E-07	8.091E-08	4.635E-08	3.113E-08	2.279E-08	1.761E-08	1.413E-08	1.164E-08	9.795E-09	8.376E-09		
N	2.230E-07	1.166E-07	7.623E-08	4.395E-08	2.966E-08	2.180E-08	1.690E-08	1.359E-08	1.123E-08	9.467E-09	8.112E-09		
NNE	1.285E-07	6.712E-08	4.384E-08	2.525E-08	1.702E-08	1.249E-08	9.673E-09	7.768E-09	6.408E-09	5.394E-09	4.614E-09		
NE	5.283E-08	2.749E-08	1.790E-08	1.027E-08	6.901E-09	5.052E-09	3.904E-09	3.129E-09	2.577E-09	2.167E-09	1.851E-09		
ENE	4.284E-08	2.198E-08	1.417E-08	8.023E-09	5.347E-09	3.891E-09	2.993E-09	2.392E-09	1.965E-09	1.648E-09	1.406E-09		
E	3.825E-08	1.979E-08	1.285E-08	7.347E-09	4.934E-09	3.613E-09	2.794E-09	2.243E-09	1.851E-09	1.559E-09	1.335E-09		
ESE	5.318E-08	2.710E-08	1.741E-08	9.816E-09	6.534E-09	4.755E-09	3.659E-09	2.927E-09	2.407E-09	2.023E-09	1.729E-09		
SE	8.826E-08	4.542E-08	2.937E-08	1.668E-08	1.114E-08	8.127E-09	6.260E-09	5.008E-09	4.118E-09	3.458E-09	2.952E-09		
SSE	1.874E-07	9.766E-08	6.368E-08	3.656E-08	2.458E-08	1.800E-08	1.390E-08	1.114E-08	9.168E-09	7.702E-09	6.576E-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	6.857E-06	1.595E-06	5.044E-07	2.577E-07	1.612E-07	7.201E-08	2.577E-08	1.241E-08	7.626E-09	5.258E-09
SSW	3.841E-06	9.051E-07	2.859E-07	1.459E-07	9.114E-08	4.060E-08	1.445E-08	6.915E-09	4.229E-09	2.994E-09
SW	1.612E-06	3.757E-07	1.178E-07	5.988E-08	3.733E-08	1.656E-08	5.856E-09	2.789E-09	1.700E-09	1.164E-09
WSW	1.599E-06	3.730E-07	1.158E-07	5.850E-08	3.630E-08	1.599E-08	5.597E-09	2.655E-09	1.618E-09	1.108E-09
W	1.765E-06	4.094E-07	1.287E-07	6.551E-08	4.088E-08	1.818E-08	6.460E-09	3.094E-09	1.897E-09	1.306E-09
WNW	1.929E-06	4.430E-07	1.356E-07	6.803E-08	4.204E-08	1.844E-08	6.437E-09	3.062E-09	1.874E-09	1.291E-09
NW	5.807E-06	1.357E-06	4.282E-07	2.187E-07	1.368E-07	6.113E-08	2.195E-08	1.063E-08	6.570E-09	4.558E-09
NNW	1.178E-05	2.800E-06	8.971E-07	4.617E-07	2.902E-07	1.306E-07	4.727E-08	2.294E-08	1.418E-08	9.817E-09
N	1.064E-05	2.548E-06	8.256E-07	4.275E-07	2.699E-07	1.223E-07	4.477E-08	2.194E-08	1.364E-08	9.487E-09
NNE	6.252E-06	1.478E-06	4.771E-07	2.466E-07	1.556E-07	7.041E-08	2.572E-08	1.257E-08	7.794E-09	5.406E-09
NE	2.597E-06	6.144E-07	1.974E-07	1.017E-07	6.403E-08	2.886E-08	1.047E-08	5.086E-09	3.140E-09	2.171E-09
ENE	2.215E-06	5.266E-07	1.649E-07	8.374E-08	5.216E-08	2.315E-08	8.201E-09	3.920E-09	2.401E-09	1.652E-09
E	1.984E-06	4.603E-07	1.453E-07	7.424E-08	4.646E-08	2.081E-08	7.497E-09	3.638E-09	2.251E-09	1.563E-09
ESE	2.880E-06	6.726E-07	2.076E-07	1.047E-07	6.487E-08	2.859E-08	1.005E-08	4.791E-09	2.938E-09	2.028E-09
SE	4.537E-06	1.069E-06	3.370E-07	1.718E-07	1.073E-07	4.780E-08	1.704E-08	8.185E-09	5.027E-09	3.466E-09
SSE	9.215E-06	2.165E-06	6.977E-07	3.602E-07	2.270E-07	1.025E-07	3.726E-08	1.811E-08	1.118E-08	7.719E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 1995
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	3.829E-05	1.215E-05	6.283E-06	3.086E-06	1.210E-06	6.413E-07	3.989E-07	2.737E-07	2.007E-07	1.543E-07	1.229E-07
SSW	2.160E-05	6.738E-06	3.532E-06	1.751E-06	6.866E-07	3.618E-07	2.262E-07	1.551E-07	1.136E-07	8.731E-08	6.950E-08
SW	8.821E-06	2.838E-06	1.483E-06	7.297E-07	2.844E-07	1.502E-07	9.312E-08	6.375E-08	4.665E-08	3.580E-08	2.847E-08
WSW	8.803E-06	2.804E-06	1.472E-06	7.274E-07	2.817E-07	1.480E-07	9.142E-08	6.238E-08	4.551E-08	3.484E-08	2.765E-08
W	9.738E-06	3.123E-06	1.618E-06	7.940E-07	3.099E-07	1.638E-07	1.016E-07	6.962E-08	5.096E-08	3.912E-08	3.112E-08
WNW	1.051E-05	3.401E-06	1.773E-06	8.692E-07	3.330E-07	1.738E-07	1.068E-07	7.260E-08	5.281E-08	4.033E-08	3.193E-08
NW	3.210E-05	1.023E-05	5.333E-06	2.627E-06	1.028E-06	5.441E-07	3.381E-07	2.319E-07	1.699E-07	1.306E-07	1.040E-07
NNW	6.636E-05	2.064E-05	1.083E-05	5.381E-06	2.130E-06	1.136E-06	7.098E-07	4.888E-07	3.594E-07	2.770E-07	2.210E-07
N	6.139E-05	1.864E-05	9.775E-06	4.872E-06	1.943E-06	1.042E-06	6.536E-07	4.515E-07	3.329E-07	2.571E-07	2.056E-07
NNE	3.640E-05	1.105E-05	5.723E-06	2.832E-06	1.127E-06	6.032E-07	3.780E-07	2.610E-07	1.923E-07	1.484E-07	1.187E-07
NE	1.497E-05	4.576E-06	2.380E-06	1.180E-06	4.679E-07	2.499E-07	1.563E-07	1.078E-07	7.930E-08	6.115E-08	4.883E-08
ENE	1.220E-05	3.839E-06	2.049E-06	1.023E-06	3.985E-07	2.102E-07	1.303E-07	8.911E-08	6.515E-08	4.996E-08	3.971E-08
E	1.117E-05	3.520E-06	1.811E-06	8.907E-07	3.485E-07	1.846E-07	1.148E-07	7.872E-08	5.770E-08	4.435E-08	3.532E-08
ESE	1.538E-05	5.025E-06	2.611E-06	1.314E-06	5.065E-07	2.654E-07	1.636E-07	1.114E-07	8.121E-08	6.210E-08	4.924E-08
SE	2.508E-05	7.941E-06	4.170E-06	2.070E-06	8.100E-07	4.287E-07	2.663E-07	1.825E-07	1.337E-07	1.027E-07	8.169E-08
SSE	5.328E-05	1.635E-05	8.422E-06	4.153E-06	1.650E-06	8.828E-07	5.529E-07	3.815E-07	2.809E-07	2.168E-07	1.732E-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	1.006E-07	4.951E-08	3.082E-08	1.653E-08	1.056E-08	7.431E-09	5.553E-09	4.327E-09	3.476E-09	2.859E-09	2.395E-09
SSW	5.688E-08	2.794E-08	1.737E-08	9.287E-09	5.922E-09	4.157E-09	3.101E-09	2.413E-09	1.935E-09	1.590E-09	1.330E-09
SW	2.328E-08	1.139E-08	7.064E-09	3.766E-09	2.397E-09	1.681E-09	1.252E-09	9.735E-10	7.804E-10	6.405E-10	5.355E-10
WSW	2.256E-08	1.095E-08	6.756E-09	3.577E-09	2.270E-09	1.587E-09	1.181E-09	9.163E-10	7.336E-10	6.015E-10	5.025E-10
W	2.545E-08	1.247E-08	7.737E-09	4.129E-09	2.630E-09	1.845E-09	1.376E-09	1.070E-09	8.585E-10	7.052E-10	5.901E-10
WNW	2.601E-08	1.257E-08	7.730E-09	4.080E-09	2.585E-09	1.807E-09	1.343E-09	1.043E-09	8.349E-10	6.847E-10	5.722E-10
NW	8.509E-08	4.185E-08	2.605E-08	1.396E-08	8.927E-09	6.281E-09	4.695E-09	3.660E-09	2.942E-09	2.420E-09	2.028E-09
NNW	1.813E-07	8.982E-08	5.616E-08	3.027E-08	1.941E-08	1.369E-08	1.025E-08	7.995E-09	6.431E-09	5.294E-09	4.439E-09
N	1.689E-07	8.420E-08	5.288E-08	2.868E-08	1.847E-08	1.307E-08	9.812E-09	7.675E-09	6.186E-09	5.101E-09	4.284E-09
NNE	9.749E-08	4.860E-08	3.053E-08	1.656E-08	1.068E-08	7.557E-09	5.675E-09	4.440E-09	3.579E-09	2.952E-09	2.479E-09
NE	4.008E-08	1.990E-08	1.247E-08	6.736E-09	4.329E-09	3.057E-09	2.291E-09	1.790E-09	1.441E-09	1.187E-09	9.956E-10
ENE	3.246E-08	1.587E-08	9.837E-09	5.238E-09	3.332E-09	2.334E-09	1.739E-09	1.351E-09	1.083E-09	8.886E-10	7.430E-10
E	2.893E-08	1.426E-08	8.893E-09	4.778E-09	3.059E-09	2.155E-09	1.613E-09	1.258E-09	1.012E-09	8.333E-10	6.988E-10
ESE	4.016E-08	1.949E-08	1.201E-08	6.354E-09	4.027E-09	2.814E-09	2.092E-09	1.623E-09	1.300E-09	1.066E-09	8.904E-10
SE	6.684E-08	3.279E-08	2.037E-08	1.089E-08	6.944E-09	4.876E-09	3.639E-09	2.832E-09	2.272E-09	1.867E-09	1.563E-09
SSE	1.422E-07	7.079E-08	4.441E-08	2.405E-08	1.547E-08	1.094E-08	8.202E-09	6.410E-09	5.162E-09	4.254E-09	3.569E-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	6.165E-06	1.374E-06	4.134E-07	2.039E-07	1.239E-07	5.255E-08	1.705E-08	7.515E-09	4.353E-09	2.870E-09
SSW	3.453E-06	7.798E-07	2.345E-07	1.155E-07	7.010E-08	2.967E-08	9.588E-09	4.205E-09	2.427E-09	1.596E-09
SW	1.449E-06	3.237E-07	9.659E-08	4.740E-08	2.872E-08	1.211E-08	3.890E-09	1.701E-09	9.796E-10	6.430E-10
WSW	1.437E-06	3.213E-07	9.490E-08	4.627E-08	2.789E-08	1.167E-08	3.702E-09	1.607E-09	9.223E-10	6.040E-10
W	1.586E-06	3.525E-07	1.054E-07	5.178E-08	3.139E-08	1.325E-08	4.264E-09	1.866E-09	1.077E-09	7.080E-10
WNW	1.733E-06	3.814E-07	1.110E-07	5.371E-08	3.223E-08	1.341E-08	4.227E-09	1.829E-09	1.049E-09	6.875E-10
NW	5.218E-06	1.168E-06	3.505E-07	1.726E-07	1.049E-07	4.444E-08	1.441E-08	6.352E-09	3.682E-09	2.439E-09
NNW	1.059E-05	2.411E-06	7.351E-07	3.650E-07	2.229E-07	9.519E-08	3.120E-08	1.384E-08	8.042E-09	5.314E-09
N	9.565E-06	2.193E-06	6.764E-07	3.379E-07	2.072E-07	8.910E-08	2.952E-08	1.321E-08	7.718E-09	5.120E-09
NNE	5.621E-06	1.773E-06	3.912E-07	1.952E-07	1.197E-07	5.143E-08	1.705E-08	7.636E-09	4.465E-09	2.963E-09
NE	2.335E-06	5.292E-07	1.619E-07	8.052E-08	4.924E-08	2.108E-08	6.939E-09	3.090E-09	1.800E-09	1.191E-09
ENE	1.991E-06	4.536E-07	1.351E-07	6.621E-08	4.006E-08	1.688E-08	5.413E-09	2.362E-09	1.360E-09	8.922E-10
E	1.783E-06	3.961E-07	1.190E-07	5.862E-08	3.563E-08	1.513E-08	4.929E-09	2.179E-09	1.266E-09	8.365E-10
ESE	2.587E-06	5.788E-07	1.699E-07	8.257E-08	4.969E-08	2.076E-08	6.577E-09	2.849E-09	1.634E-09	1.070E-09
SE	4.078E-06	9.206E-07	2.761E-07	1.358E-07	8.240E-08	3.484E-08	1.124E-08	4.933E-09	2.849E-09	1.874E-09
SSE	8.287E-06	1.865E-06	5.723E-07	2.852E-07	1.746E-07	7.494E-08	2.476E-08	1.105E-08	6.447E-09	4.269E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 1995

CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION
FROM SITE

	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.505E-07	5.090E-08	2.613E-08	1.242E-08	4.463E-09	2.213E-09	1.303E-09	8.533E-10	6.004E-10	4.450E-10	3.429E-10
SSW	7.151E-08	2.418E-08	1.242E-08	5.903E-09	2.120E-09	1.052E-09	6.191E-10	4.054E-10	2.853E-10	2.114E-10	1.629E-10
SW	3.333E-08	1.127E-08	5.786E-09	2.751E-09	9.881E-10	4.900E-10	2.885E-10	1.889E-10	1.329E-10	9.853E-11	7.593E-11
WSW	3.548E-08	1.200E-08	6.160E-09	2.928E-09	1.052E-09	5.216E-10	3.072E-10	2.011E-10	1.415E-10	1.049E-10	8.082E-11
W	4.730E-08	1.599E-08	8.212E-09	3.904E-09	1.402E-09	6.954E-10	4.095E-10	2.681E-10	1.887E-10	1.398E-10	1.078E-10
WNW	6.341E-08	2.144E-08	1.101E-08	5.234E-09	1.880E-09	9.324E-10	5.490E-10	3.595E-10	2.529E-10	1.875E-10	1.445E-10
NW	1.693E-07	5.725E-08	2.939E-08	1.397E-08	5.019E-09	2.489E-09	1.466E-09	9.597E-10	6.753E-10	5.005E-10	3.857E-10
NNW	2.548E-07	8.617E-08	4.424E-08	2.103E-08	7.555E-09	3.747E-09	2.206E-09	1.445E-09	1.017E-09	7.533E-10	5.805E-10
N	2.468E-07	8.344E-08	4.284E-08	2.037E-08	7.316E-09	3.628E-09	2.136E-09	1.399E-09	9.844E-10	7.295E-10	5.622E-10
NNE	1.323E-07	4.473E-08	2.296E-08	1.092E-08	3.922E-09	1.945E-09	1.145E-09	7.499E-10	5.276E-10	3.910E-10	3.013E-10
NE	5.323E-08	1.800E-08	9.242E-09	4.394E-09	1.578E-09	7.827E-10	4.609E-10	3.018E-10	2.123E-10	1.574E-10	1.213E-10
ENE	5.160E-08	1.745E-08	8.959E-09	4.259E-09	1.530E-09	7.587E-10	4.468E-10	2.925E-10	2.058E-10	1.525E-10	1.176E-10
E	6.718E-08	2.272E-08	1.166E-08	5.545E-09	1.992E-09	9.878E-10	5.816E-10	3.809E-10	2.680E-10	1.986E-10	1.530E-10
ESE	1.150E-07	3.889E-08	1.997E-08	9.492E-09	3.410E-09	1.691E-09	9.956E-10	6.519E-10	4.587E-10	3.400E-10	2.620E-10
SE	1.344E-07	4.544E-08	2.333E-08	1.109E-08	3.984E-09	1.976E-09	1.163E-09	7.618E-10	5.360E-10	3.972E-10	3.061E-10
SSE	1.893E-07	6.401E-08	3.286E-08	1.562E-08	5.612E-09	2.783E-09	1.639E-09	1.073E-09	7.551E-10	5.596E-10	4.312E-10

DIRECTION
FROM SITE

	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.724E-10	1.210E-10	7.331E-11	3.705E-11	2.243E-11	1.504E-11	1.077E-11	8.090E-12	6.290E-12	5.025E-12	4.101E-12
SSW	1.294E-10	5.750E-11	3.483E-11	1.760E-11	1.065E-11	7.144E-12	5.119E-12	3.844E-12	2.989E-12	2.387E-12	1.949E-12
SW	6.032E-11	2.680E-11	1.623E-11	8.204E-12	4.966E-12	3.329E-12	2.386E-12	1.791E-12	1.393E-12	1.113E-12	9.081E-13
WSW	6.421E-11	2.852E-11	1.728E-11	8.733E-12	5.286E-12	3.544E-12	2.539E-12	1.907E-12	1.483E-12	1.184E-12	9.667E-13
W	8.560E-11	3.803E-11	2.303E-11	1.164E-11	7.047E-12	4.725E-12	3.386E-12	2.542E-12	1.977E-12	1.579E-12	1.269E-12
WNW	1.148E-10	5.098E-11	3.088E-11	1.561E-11	9.448E-12	6.334E-12	4.539E-12	3.408E-12	2.650E-12	2.117E-12	1.728E-12
NW	3.064E-10	1.361E-10	8.245E-11	4.167E-11	2.522E-11	1.691E-11	1.212E-11	9.099E-12	7.075E-12	5.652E-12	4.613E-12
NNW	4.612E-10	2.049E-10	1.241E-10	6.273E-11	3.797E-11	2.546E-11	1.824E-11	1.370E-11	1.065E-11	8.507E-12	6.944E-12
N	4.466E-10	1.984E-10	1.202E-10	6.075E-11	3.677E-11	2.465E-11	1.766E-11	1.326E-11	1.031E-11	8.238E-12	6.724E-12
NNE	2.394E-10	1.063E-10	6.442E-11	3.256E-11	1.971E-11	1.321E-11	9.468E-12	7.109E-12	5.528E-12	4.416E-12	3.604E-12
NE	9.634E-11	4.280E-11	2.593E-11	1.310E-11	7.931E-12	5.318E-12	3.810E-12	2.861E-12	2.225E-12	1.777E-12	1.451E-12
ENE	9.339E-11	4.149E-11	2.513E-11	1.270E-11	7.688E-12	5.155E-12	3.694E-12	2.774E-12	2.157E-12	1.723E-12	1.406E-12
E	1.216E-10	5.401E-11	3.272E-11	1.654E-11	1.001E-11	6.711E-12	4.809E-12	3.611E-12	2.808E-12	2.243E-12	1.831E-12
ESE	2.081E-10	9.246E-11	5.601E-11	2.831E-11	1.713E-11	1.149E-11	8.231E-12	6.181E-12	4.806E-12	3.839E-12	3.133E-12
SE	2.432E-10	1.080E-10	6.544E-11	3.308E-11	2.002E-11	1.342E-11	9.618E-12	7.222E-12	5.616E-12	4.486E-12	3.661E-12
SSE	3.426E-10	1.522E-10	9.219E-11	4.660E-11	2.820E-11	1.891E-11	1.355E-11	1.017E-11	7.911E-12	6.319E-12	5.158E-12

RELATIVE DEPOSITION PER UNIT AREA (M**2) BY DOWNWIND SECTORS

DIRECTION
FROM SITE

	5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.554E-08	5.232E-09	1.366E-09	6.134E-10	3.470E-10	1.335E-10	3.861E-11	1.530E-11	8.171E-12	5.058E-12
SSW	1.214E-08	2.486E-09	6.489E-10	2.915E-10	1.649E-10	6.341E-11	1.534E-11	7.270E-12	3.882E-12	2.403E-12
SW	5.656E-09	1.158E-09	3.024E-10	1.358E-10	7.684E-11	2.955E-11	8.549E-12	3.388E-12	1.809E-12	1.120E-12
WSW	6.021E-09	1.233E-09	3.219E-10	1.446E-10	8.180E-11	3.146E-11	9.100E-12	3.607E-12	1.926E-12	1.192E-12
W	8.027E-09	1.644E-09	4.292E-10	1.928E-10	1.091E-10	4.194E-11	1.213E-11	4.808E-12	2.568E-12	1.589E-12
WNW	1.076E-08	2.204E-09	5.754E-10	2.584E-10	1.462E-10	5.622E-11	1.626E-11	6.446E-12	3.442E-12	2.131E-12
NW	2.873E-08	5.885E-09	1.536E-09	6.900E-10	3.903E-10	1.501E-10	4.342E-11	1.721E-11	9.191E-12	5.689E-12
NNW	4.325E-08	8.858E-09	2.312E-09	1.039E-09	5.875E-10	2.259E-10	6.536E-11	2.591E-11	1.383E-11	8.563E-12
N	4.188E-08	8.578E-09	2.239E-09	1.086E-09	5.690E-10	2.188E-10	6.330E-11	2.509E-11	1.340E-11	8.292E-12
NNE	2.245E-08	4.598E-09	1.200E-09	5.391E-10	3.050E-10	1.173E-10	3.393E-11	1.345E-11	7.181E-12	4.445E-12
NE	9.034E-09	1.850E-09	4.831E-10	2.170E-10	1.227E-10	4.720E-11	1.365E-11	5.412E-12	2.890E-12	1.789E-12
ENE	8.757E-09	1.794E-09	4.683E-10	2.103E-10	1.190E-10	4.575E-11	1.324E-11	5.246E-12	2.801E-12	1.734E-12
E	1.140E-08	2.335E-09	6.096E-10	2.738E-10	1.549E-10	5.957E-11	1.723E-11	6.830E-12	3.647E-12	2.257E-12
ESE	1.952E-08	3.997E-09	1.044E-09	4.687E-10	2.651E-10	1.020E-10	2.950E-11	1.169E-11	6.243E-12	3.864E-12
SE	2.280E-08	4.671E-09	1.219E-09	5.476E-10	3.098E-10	1.191E-10	3.447E-11	1.366E-11	7.295E-12	4.515E-12
SSE	3.212E-08	6.580E-09	1.718E-09	7.715E-10	4.364E-10	1.678E-10	4.855E-11	1.924E-11	1.028E-11	6.360E-12

VENTS GROUND LEVEL RELEASES - JUL-DEC 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q			D/Q (PER SQ.METER)
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	6.060E-06	6.038E-06	5.374E-06	2.222E-08
A	SITE BOUNDARY	SSW	0.82	1327.	7.170E-06	3.158E-06	2.806E-06	9.743E-09
A	SITE BOUNDARY	SW	0.98	1569.	8.849E-07	8.808E-07	7.749E-07	2.936E-09
A	SITE BOUNDARY	WSW	0.93	1489.	9.995E-07	9.954E-07	8.784E-07	3.578E-09
A	SITE BOUNDARY	W	0.91	1468.	1.129E-06	1.125E-06	9.933E-07	4.950E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.158E-06	1.154E-06	1.017E-06	6.178E-09
A	SITE BOUNDARY	NW	0.81	1307.	4.955E-06	4.940E-06	4.391E-06	2.400E-08
A	SITE BOUNDARY	NNW	0.69	1106.	1.387E-05	1.383E-05	1.241E-05	5.124E-08
A	SITE BOUNDARY	N	0.67	1086.	1.285E-05	1.281E-05	1.151E-05	5.116E-08
A	SITE BOUNDARY	NNE	0.60	965.	9.082E-06	9.056E-06	8.192E-06	3.323E-08
A	SITE BOUNDARY	NE	0.62	1005.	3.530E-06	3.519E-06	3.174E-06	1.257E-08
A	SITE BOUNDARY	ENE	0.59	945.	3.290E-06	3.282E-06	2.972E-06	1.342E-08
A	SITE BOUNDARY	E	0.53	845.	3.561E-06	3.554E-06	3.241E-06	2.098E-08
A	SITE BOUNDARY	ESE	0.54	865.	4.914E-06	4.905E-06	4.465E-06	3.456E-08
A	SITE BOUNDARY	SE	0.65	1046.	5.819E-06	5.803E-06	5.222E-06	2.967E-08
A	SITE BOUNDARY	SSE	0.81	1307.	7.826E-06	7.795E-06	6.933E-06	2.684E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	4.598E-07	4.569E-07	3.943E-07	1.411E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	4.565E-07	4.538E-07	3.914E-07	1.502E-09
A	NEAR. RESIDENCE	W	1.00	1609.	9.081E-07	9.043E-07	7.940E-07	3.904E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.406E-07	3.386E-07	2.872E-07	1.604E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	3.858E-06	3.846E-06	3.398E-06	1.836E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.528E-06	1.516E-06	1.269E-06	4.240E-09
A	NEAR. RESIDENCE	N	3.00	4828.	5.706E-07	5.631E-07	4.515E-07	1.399E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.034E-07	3.981E-07	3.229E-07	9.569E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	3.588E-07	3.561E-07	3.008E-07	1.125E-09
A	NEAR. RESIDENCE	E	1.80	2897.	2.784E-07	2.765E-07	2.323E-07	1.274E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.199E-07	2.181E-07	1.785E-07	1.096E-09
A	NEAREST COW	NNW	3.50	5633.	4.626E-07	4.554E-07	3.594E-07	1.016E-09
A	NEAREST GARDEN	SW	1.30	2092.	4.598E-07	4.569E-07	3.943E-07	1.411E-09
A	NEAREST GARDEN	WSW	1.80	2897.	2.240E-07	2.222E-07	1.868E-07	6.729E-10
A	NEAREST GARDEN	WNW	1.60	2575.	3.406E-07	3.386E-07	2.872E-07	1.604E-09
A	NEAREST GARDEN	NW	2.80	4506.	3.348E-07	3.312E-07	2.672E-07	1.126E-09
A	NEAREST GARDEN	NNW	1.90	3058.	1.528E-06	1.516E-06	1.269E-06	4.240E-09
A	NEAREST GARDEN	N	3.00	4828.	5.706E-07	5.631E-07	4.515E-07	1.399E-09
A	NEAREST GARDEN	ENE	1.70	2736.	3.588E-07	3.561E-07	3.008E-07	1.125E-09
A	NEAREST GARDEN	E	1.80	2897.	2.784E-07	2.765E-07	2.323E-07	1.274E-09
A	NEAREST GARDEN	ESE	2.40	3863.	2.199E-07	2.181E-07	1.785E-07	1.096E-09

Atmospheric Diffusion Estimates

Ground Level Releases

January-December 1995

VENTS GROUND LEVEL RELEASES - JAN-DEC 1995
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	3.840E-05	1.276E-05	6.740E-06	3.353E-06	1.340E-06	7.239E-07	4.581E-07	3.194E-07	2.377E-07	1.853E-07	1.496E-07	
SSW	2.487E-05	8.052E-06	4.240E-06	2.118E-06	8.548E-07	4.645E-07	2.953E-07	2.066E-07	1.542E-07	1.205E-07	9.747E-08	
SW	1.201E-05	4.050E-06	2.153E-06	1.071E-06	4.246E-07	2.280E-07	1.436E-07	9.981E-08	7.407E-08	5.761E-08	4.640E-08	
WSW	8.789E-06	2.908E-06	1.541E-06	7.671E-07	3.040E-07	1.632E-07	1.028E-07	7.139E-08	5.296E-08	4.117E-08	3.315E-08	
W	9.098E-06	3.081E-06	1.630E-06	8.898E-07	3.209E-07	1.722E-07	1.084E-07	7.529E-08	5.583E-08	4.339E-08	3.492E-08	
WNW	1.126E-05	3.771E-06	1.978E-06	9.766E-07	3.829E-07	2.041E-07	1.278E-07	8.844E-08	6.538E-08	5.069E-08	4.071E-08	
NW	3.033E-05	1.005E-05	5.317E-06	2.648E-06	1.062E-06	5.746E-07	3.642E-07	2.543E-07	1.894E-07	1.478E-07	1.194E-07	
NNW	5.841E-05	1.874E-05	9.983E-06	5.028E-06	2.057E-06	1.128E-06	7.220E-07	5.079E-07	3.808E-07	2.987E-07	2.424E-07	
N	6.555E-05	2.068E-05	1.104E-05	5.585E-06	2.297E-06	1.264E-06	8.109E-07	5.717E-07	4.293E-07	3.372E-07	2.740E-07	
NNE	4.105E-05	1.295E-05	6.912E-06	3.490E-06	1.428E-06	7.835E-07	5.016E-07	3.530E-07	2.647E-07	2.077E-07	1.686E-07	
NE	1.750E-05	5.546E-06	2.937E-06	1.477E-06	6.042E-07	3.312E-07	2.119E-07	1.491E-07	1.118E-07	8.766E-08	7.113E-08	
ENE	1.126E-05	3.700E-06	2.004E-06	1.012E-06	4.067E-07	2.203E-07	1.396E-07	9.750E-08	7.263E-08	5.667E-08	4.577E-08	
E	1.089E-05	3.614E-06	1.926E-06	9.640E-07	3.869E-07	2.094E-07	1.327E-07	9.264E-08	6.900E-08	5.383E-08	4.347E-08	
ESE	1.706E-05	5.791E-06	3.165E-06	1.598E-06	6.345E-07	3.408E-07	2.147E-07	1.491E-07	1.106E-07	8.592E-08	6.916E-08	
SE	3.239E-05	1.078E-05	5.772E-06	2.895E-06	1.161E-06	6.281E-07	3.979E-07	2.777E-07	2.067E-07	1.612E-07	1.302E-07	
SSE	6.056E-05	1.941E-05	1.023E-05	5.126E-06	2.092E-06	1.145E-06	7.321E-07	5.147E-07	3.856E-07	3.023E-07	2.452E-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	1.241E-07	6.433E-08	4.197E-08	2.434E-08	1.663E-08	1.241E-08	9.778E-09	8.003E-09	6.733E-09	5.784E-09	5.052E-09	
SSW	8.098E-08	4.227E-08	2.771E-08	1.616E-08	1.108E-08	8.289E-09	6.548E-09	5.369E-09	4.524E-09	3.892E-09	3.404E-09	
SW	3.842E-08	1.982E-08	1.288E-08	7.431E-09	5.059E-09	3.763E-09	2.959E-09	2.417E-09	2.030E-09	1.742E-09	1.519E-09	
WSW	2.743E-08	1.410E-08	9.151E-09	5.268E-09	3.585E-09	2.666E-09	2.096E-09	1.712E-09	1.438E-09	1.233E-09	1.076E-09	
W	2.888E-08	1.482E-08	9.601E-09	5.508E-09	3.733E-09	2.767E-09	2.170E-09	1.769E-09	1.483E-09	1.270E-09	1.106E-09	
WNW	3.362E-08	1.719E-08	1.111E-08	6.362E-09	4.318E-09	3.204E-09	2.516E-09	2.052E-09	1.722E-09	1.476E-09	1.287E-09	
NW	9.907E-08	5.148E-08	3.365E-08	1.955E-08	1.337E-08	9.986E-09	7.876E-09	6.450E-09	5.429E-09	4.666E-09	4.077E-09	
NNW	2.020E-07	1.064E-07	7.022E-08	4.129E-08	2.845E-08	2.135E-08	1.691E-08	1.389E-08	1.173E-08	1.010E-08	8.845E-09	
N	2.285E-07	1.209E-07	7.997E-08	4.719E-08	3.259E-08	2.451E-08	1.944E-08	1.599E-08	1.351E-08	1.165E-08	1.021E-08	
NNE	1.405E-07	7.413E-08	4.895E-08	2.884E-08	1.990E-08	1.495E-08	1.185E-08	9.749E-09	8.235E-09	7.098E-09	6.218E-09	
NE	5.926E-08	3.125E-08	2.062E-08	1.214E-08	8.371E-09	6.288E-09	4.983E-09	4.097E-09	3.460E-09	2.983E-09	2.613E-09	
ENE	3.798E-08	1.971E-08	1.287E-08	7.460E-09	5.092E-09	3.794E-09	2.987E-09	2.442E-09	2.052E-09	1.761E-09	1.537E-09	
E	3.607E-08	1.872E-08	1.222E-08	7.088E-09	4.838E-09	3.605E-09	2.839E-09	2.322E-09	1.952E-09	1.676E-09	1.463E-09	
ESE	5.720E-08	2.933E-08	1.898E-08	1.086E-08	7.349E-09	5.437E-09	4.256E-09	3.462E-09	2.898E-09	2.477E-09	2.154E-09	
SE	1.080E-07	5.596E-08	3.649E-08	2.113E-08	1.441E-08	1.073E-08	8.449E-09	6.908E-09	5.805E-09	4.982E-09	4.347E-09	
SSE	2.043E-07	1.076E-07	7.095E-08	4.173E-08	2.877E-08	2.161E-08	1.712E-08	1.408E-08	1.189E-08	1.025E-08	8.974E-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	6.573E-06	1.514E-06	4.735E-07	2.411E-07	1.507E-07	6.767E-08	2.483E-08	1.248E-08	8.026E-09	5.794E-09
SSW	4.144E-06	9.621E-07	3.049E-07	1.563E-07	9.819E-08	4.440E-08	1.647E-08	8.337E-09	5.384E-09	3.899E-09
SW	2.094E-06	4.809E-07	1.486E-07	7.516E-08	4.677E-08	2.087E-08	7.588E-09	3.787E-09	2.425E-09	1.745E-09
WSW	1.501E-06	3.443E-07	1.063E-07	5.373E-08	3.341E-08	1.486E-08	5.382E-09	2.683E-09	1.717E-09	1.235E-09
W	1.588E-06	3.635E-07	1.122E-07	5.665E-08	3.519E-08	1.563E-08	5.629E-09	2.786E-09	1.775E-09	1.273E-09
WNW	1.931E-06	4.353E-07	1.324E-07	6.637E-08	4.104E-08	1.814E-08	6.508E-09	3.226E-09	2.059E-09	1.479E-09
NW	5.184E-06	1.198E-06	3.763E-07	1.921E-07	1.203E-07	5.413E-08	1.994E-08	1.005E-08	6.469E-09	4.674E-09
NNW	9.727E-06	2.304E-06	7.447E-07	3.859E-07	2.441E-07	1.116E-07	4.201E-08	2.147E-08	1.393E-08	1.012E-08
N	1.076E-05	2.568E-06	8.360E-07	4.349E-07	2.759E-07	1.266E-07	4.799E-08	2.464E-08	1.603E-08	1.167E-08
NNE	6.734E-06	1.600E-06	5.173E-07	2.682E-07	1.697E-07	7.768E-08	2.934E-08	1.503E-08	9.774E-09	7.109E-09
NE	2.868E-06	6.769E-07	2.186E-07	1.132E-07	7.163E-08	3.275E-08	1.235E-08	6.321E-09	4.108E-09	2.987E-09
ENE	1.940E-06	4.584E-07	1.443E-07	7.366E-08	4.611E-08	2.073E-08	7.610E-09	3.817E-09	2.449E-09	1.765E-09
E	1.873E-06	4.362E-07	1.371E-07	6.998E-08	4.380E-08	1.969E-08	7.230E-09	3.628E-09	2.329E-09	1.679E-09
ESE	3.052E-06	7.180E-07	2.221E-07	1.122E-07	6.970E-08	3.092E-08	1.111E-08	5.474E-09	3.474E-09	2.482E-09
SE	5.606E-06	1.310E-06	4.112E-07	2.097E-07	1.311E-07	5.886E-08	2.156E-08	1.080E-08	6.928E-09	4.991E-09
SSE	1.000E-05	2.345E-06	7.553E-07	3.907E-07	2.470E-07	1.128E-07	4.246E-08	2.172E-08	1.411E-08	1.026E-08

VENTS GROUND LEVEL RELEASES - JAN-DEC 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

SECTOR	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)			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	3.836E-05	1.273E-05	6.717E-06	3.338E-06	1.331E-06	7.171E-07	4.527E-07	3.149E-07	2.338E-07	1.818E-07	1.464E-07
SSW	2.484E-05	8.032E-06	4.224E-06	2.107E-06	8.482E-07	4.596E-07	2.914E-07	2.033E-07	1.513E-07	1.179E-07	9.513E-08
SW	1.200E-05	4.040E-06	2.145E-06	1.066E-06	4.213E-07	2.256E-07	1.418E-07	9.825E-08	7.271E-08	5.640E-08	4.530E-08
WSW	8.779E-06	2.901E-06	1.535E-06	7.635E-07	3.019E-07	1.616E-07	1.015E-07	7.034E-08	5.205E-08	4.036E-08	3.241E-08
W	9.089E-06	3.074E-06	1.625E-06	8.065E-07	3.189E-07	1.707E-07	1.073E-07	7.431E-08	5.498E-08	4.263E-08	3.423E-08
WNW	1.125E-05	3.764E-06	1.973E-06	9.731E-07	3.808E-07	2.026E-07	1.267E-07	8.744E-08	6.452E-08	4.992E-08	4.001E-08
NW	3.030E-05	1.004E-05	5.301E-06	2.638E-06	1.056E-06	5.701E-07	3.606E-07	2.512E-07	1.867E-07	1.454E-07	1.172E-07
NNW	5.833E-05	1.869E-05	9.946E-06	5.004E-06	2.042E-06	1.117E-06	7.129E-07	5.003E-07	3.741E-07	2.927E-07	2.369E-07
N	6.546E-05	2.063E-05	1.100E-05	5.557E-06	2.280E-06	1.251E-06	8.009E-07	5.631E-07	4.218E-07	3.305E-07	2.678E-07
NNE	4.100E-05	1.292E-05	6.885E-06	3.472E-06	1.417E-06	7.753E-07	4.950E-07	3.474E-07	2.598E-07	2.033E-07	1.645E-07
NE	1.748E-05	5.532E-06	2.925E-06	1.470E-06	5.993E-07	3.276E-07	2.091E-07	1.466E-07	1.096E-07	8.574E-08	6.938E-08
ENE	1.124E-05	3.691E-06	1.997E-06	1.008E-06	4.038E-07	2.182E-07	1.380E-07	9.609E-08	7.141E-08	5.557E-08	4.477E-08
E	1.088E-05	3.606E-06	1.920E-06	9.601E-07	3.845E-07	2.077E-07	1.313E-07	9.147E-08	6.798E-08	5.291E-08	4.264E-08
ESE	1.704E-05	5.780E-06	3.156E-06	1.592E-06	6.308E-07	3.381E-07	2.125E-07	1.473E-07	1.090E-07	8.456E-08	6.791E-08
SE	3.235E-05	1.076E-05	5.754E-06	2.883E-06	1.154E-06	6.226E-07	3.935E-07	2.739E-07	2.035E-07	1.583E-07	1.275E-07
SSE	6.048E-05	1.936E-05	1.020E-05	5.101E-06	2.076E-06	1.133E-06	7.226E-07	5.066E-07	3.785E-07	2.959E-07	2.394E-07

BEARING	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)			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	1.211E-07	6.200E-08	3.995E-08	2.259E-08	1.506E-08	1.096E-08	8.426E-09	6.731E-09	5.528E-09	4.636E-09	3.954E-09
SSW	7.882E-08	4.057E-08	2.622E-08	1.488E-08	9.921E-09	7.219E-09	5.549E-09	4.428E-09	3.633E-09	3.043E-09	2.591E-09
SW	3.741E-08	1.903E-08	1.220E-08	6.850E-09	4.539E-09	3.287E-09	2.516E-09	2.002E-09	1.637E-09	1.368E-09	1.163E-09
WSW	2.675E-08	1.358E-08	8.698E-09	4.880E-09	3.237E-09	2.347E-09	1.800E-09	1.434E-09	1.175E-09	9.836E-10	8.374E-10
W	2.825E-08	1.433E-08	9.176E-09	5.144E-09	3.406E-09	2.468E-09	1.891E-09	1.507E-09	1.235E-09	1.034E-09	8.810E-10
WNW	3.298E-08	1.669E-08	1.067E-08	5.991E-09	3.983E-09	2.897E-09	2.228E-09	1.782E-09	1.466E-09	1.231E-09	1.052E-09
NW	9.705E-08	4.989E-08	3.225E-08	1.833E-08	1.227E-08	8.966E-09	6.921E-09	5.549E-09	4.572E-09	3.848E-09	3.292E-09
NNW	1.968E-07	1.024E-07	6.668E-08	3.820E-08	2.565E-08	1.877E-08	1.449E-08	1.161E-08	9.561E-09	8.037E-09	6.867E-09
N	2.228E-07	1.164E-07	7.599E-08	4.372E-08	2.944E-08	2.159E-08	1.671E-08	1.341E-08	1.106E-08	9.313E-09	7.968E-09
NNE	1.367E-07	7.119E-08	4.638E-08	2.659E-08	1.787E-08	1.308E-08	1.010E-08	8.095E-09	6.665E-09	5.602E-09	4.785E-09
NE	5.764E-08	2.996E-08	1.950E-08	1.116E-08	7.484E-09	5.469E-09	4.217E-09	3.375E-09	2.775E-09	2.329E-09	1.987E-09
ENE	3.706E-08	1.900E-08	1.225E-08	6.928E-09	4.614E-09	3.356E-09	2.579E-09	2.059E-09	1.691E-09	1.418E-09	1.209E-09
E	3.530E-08	1.812E-08	1.170E-08	6.630E-09	4.425E-09	3.224E-09	2.483E-09	1.987E-09	1.634E-09	1.373E-09	1.173E-09
ESE	5.606E-08	2.845E-08	1.822E-08	1.021E-08	6.766E-09	4.903E-09	3.761E-09	2.998E-09	2.459E-09	2.061E-09	1.758E-09
SE	1.055E-07	5.404E-08	3.482E-08	1.968E-08	1.311E-08	9.534E-09	7.329E-09	5.853E-09	4.806E-09	4.031E-09	3.438E-09
SSE	1.988E-07	1.033E-07	6.718E-08	3.844E-08	2.579E-08	1.885E-08	1.454E-08	1.164E-08	9.573E-09	8.038E-09	6.860E-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	6.552E-06	1.504E-06	4.681E-07	2.371E-07	1.475E-07	6.533E-08	2.310E-08	1.104E-08	6.757E-09	4.648E-09
SSW	4.129E-06	9.553E-07	3.010E-07	1.535E-07	9.585E-08	4.269E-08	1.520E-08	7.272E-09	4.445E-09	3.050E-09
SW	2.087E-06	4.776E-07	1.467E-07	7.380E-08	4.567E-08	2.008E-08	7.013E-09	3.312E-09	2.010E-09	1.372E-09
WSW	1.496E-06	3.421E-07	1.051E-07	5.282E-08	3.267E-08	1.434E-08	4.998E-09	2.366E-09	1.440E-09	9.862E-10
W	1.583E-06	3.614E-07	1.110E-07	5.580E-08	3.450E-08	1.513E-08	5.268E-09	2.488E-09	1.513E-09	1.037E-09
WNW	1.927E-06	4.332E-07	1.312E-07	6.550E-08	4.034E-08	1.764E-08	6.139E-09	2.919E-09	1.789E-09	1.235E-09
NW	5.170E-06	1.192E-06	3.727E-07	1.894E-07	1.181E-07	5.253E-08	1.873E-08	9.030E-09	5.569E-09	3.857E-09
NNW	9.693E-06	2.289E-06	7.356E-07	3.791E-07	2.386E-07	1.075E-07	3.895E-08	1.889E-08	1.165E-08	8.055E-09
N	1.072E-05	2.551E-06	8.259E-07	4.274E-07	2.697E-07	1.221E-07	4.455E-08	2.173E-08	1.346E-08	9.333E-09
NNE	6.710E-06	1.589E-06	5.107E-07	2.633E-07	1.657E-07	7.473E-08	2.711E-08	1.316E-08	8.123E-09	5.614E-09
NE	2.857E-06	6.719E-07	2.157E-07	1.111E-07	6.988E-08	3.146E-08	1.138E-08	5.505E-09	3.387E-09	2.334E-09
ENE	1.934E-06	4.555E-07	1.426E-07	7.243E-08	4.512E-08	2.001E-08	7.083E-09	3.381E-09	2.068E-09	1.421E-09
E	1.868E-06	4.338E-07	1.357E-07	6.895E-08	4.296E-08	1.908E-08	6.776E-09	3.248E-09	1.994E-09	1.376E-09
ESE	3.044E-06	7.143E-07	2.199E-07	1.106E-07	6.845E-08	3.004E-08	1.046E-08	4.943E-09	3.011E-09	2.067E-09
SE	5.589E-06	1.302E-06	4.068E-07	2.064E-07	1.285E-07	5.693E-08	2.012E-08	9.605E-09	5.876E-09	4.041E-09
SSE	9.967E-06	2.329E-06	7.457E-07	3.836E-07	2.411E-07	1.085E-07	3.920E-08	1.897E-08	1.168E-08	8.056E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 1995
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	3.633E-05	1.165E-05	6.000E-06	2.931E-06	1.136E-06	5.978E-07	3.698E-07	2.527E-07	1.846E-07	1.415E-07	1.124E-07
SSW	2.353E-05	7.348E-06	3.775E-06	1.851E-06	7.244E-07	3.835E-07	2.383E-07	1.634E-07	1.197E-07	9.194E-08	7.319E-08
SW	1.137E-05	3.696E-06	1.917E-06	9.365E-07	3.598E-07	1.882E-07	1.159E-07	7.893E-08	5.750E-08	4.396E-08	3.485E-08
WSW	8.316E-06	2.654E-06	1.372E-06	6.706E-07	2.577E-07	1.348E-07	8.296E-08	5.647E-08	4.112E-08	3.143E-08	2.490E-08
W	8.608E-06	2.811E-06	1.451E-06	7.080E-07	2.721E-07	1.423E-07	8.756E-08	5.958E-08	4.337E-08	3.314E-08	2.625E-08
WNW	1.065E-05	3.442E-06	1.761E-06	8.540E-07	3.247E-07	1.686E-07	1.033E-07	7.002E-08	5.082E-08	3.874E-08	3.063E-08
NW	2.870E-05	9.177E-06	4.734E-06	2.316E-06	9.003E-07	4.747E-07	2.942E-07	2.013E-07	1.472E-07	1.129E-07	8.979E-08
NNW	5.526E-05	1.710E-05	8.887E-06	4.395E-06	1.743E-06	9.314E-07	5.827E-07	4.017E-07	2.956E-07	2.280E-07	1.821E-07
N	6.201E-05	1.887E-05	9.830E-06	4.882E-06	1.946E-06	1.044E-06	6.546E-07	4.522E-07	3.333E-07	2.574E-07	2.058E-07
NNE	3.884E-05	1.182E-05	6.153E-06	3.351E-06	1.210E-06	6.469E-07	4.048E-07	2.791E-07	2.054E-07	1.585E-07	1.266E-07
NE	1.656E-05	5.061E-06	2.614E-06	1.291E-06	5.119E-07	2.734E-07	1.710E-07	1.179E-07	8.672E-08	6.687E-08	5.340E-08
ENE	1.065E-05	3.377E-06	1.784E-06	8.850E-07	3.447E-07	1.819E-07	1.127E-07	7.713E-08	5.640E-08	4.326E-08	3.439E-08
E	1.031E-05	3.298E-06	1.715E-06	8.429E-07	3.280E-07	1.730E-07	1.072E-07	7.332E-08	5.361E-08	4.112E-08	3.269E-08
ESE	1.614E-05	5.285E-06	2.818E-06	1.397E-06	5.380E-07	2.816E-07	1.734E-07	1.180E-07	8.593E-08	6.566E-08	5.202E-08
SE	3.064E-05	9.837E-06	5.139E-06	2.531E-06	9.843E-07	5.188E-07	3.213E-07	2.197E-07	1.606E-07	1.231E-07	9.784E-08
SSE	5.730E-05	1.771E-05	9.110E-06	4.481E-06	1.772E-06	9.454E-07	5.908E-07	4.070E-07	2.993E-07	2.307E-07	1.842E-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	9.184E-08	4.488E-08	2.781E-08	1.482E-08	9.439E-09	6.622E-09	4.939E-09	3.842E-09	3.082E-09	2.531E-09	2.118E-09
SSW	5.990E-08	2.945E-08	1.832E-08	9.814E-09	6.269E-09	4.407E-09	3.291E-09	2.563E-09	2.057E-09	1.691E-09	1.415E-09
SW	2.842E-08	1.381E-08	8.522E-09	4.514E-09	2.864E-09	2.003E-09	1.489E-09	1.155E-09	9.248E-10	7.579E-10	6.329E-10
WSW	2.030E-08	9.837E-09	6.059E-09	3.205E-09	2.033E-09	1.422E-09	1.058E-09	8.208E-10	6.572E-10	5.389E-10	4.503E-10
W	2.140E-08	1.035E-08	6.367E-09	3.359E-09	2.123E-09	1.481E-09	1.100E-09	8.524E-10	6.817E-10	5.584E-10	4.662E-10
WNW	2.493E-08	1.202E-08	7.378E-09	3.889E-09	2.464E-09	1.722E-09	1.281E-09	9.943E-10	7.965E-10	6.535E-10	5.464E-10
NW	7.342E-08	3.597E-08	2.233E-08	1.193E-08	7.619E-09	5.355E-09	4.000E-09	3.116E-09	2.503E-09	2.058E-09	1.724E-09
NNW	1.495E-07	7.421E-08	4.648E-08	2.511E-08	1.612E-08	1.138E-08	8.526E-09	6.656E-09	5.355E-09	4.410E-09	3.698E-09
N	1.691E-07	8.431E-08	5.295E-08	2.871E-08	1.848E-08	1.307E-08	9.808E-09	7.668E-09	6.177E-09	5.091E-09	4.273E-09
NNE	1.039E-07	5.166E-08	3.238E-08	1.752E-08	1.127E-08	7.959E-09	5.967E-09	4.661E-09	3.753E-09	3.091E-09	2.593E-09
NE	4.383E-08	2.177E-08	1.363E-08	7.367E-09	4.733E-09	3.341E-09	2.503E-09	1.955E-09	1.573E-09	1.295E-09	1.086E-09
ENE	2.811E-08	1.375E-08	8.525E-09	4.542E-09	2.890E-09	2.026E-09	1.509E-09	1.173E-09	9.402E-10	7.715E-10	6.451E-10
E	2.672E-08	1.308E-08	8.110E-09	4.324E-09	2.753E-09	1.931E-09	1.440E-09	1.120E-09	8.984E-10	7.378E-10	6.174E-10
ESE	4.240E-08	2.050E-08	1.260E-08	6.637E-09	4.190E-09	2.920E-09	2.165E-09	1.676E-09	1.339E-09	1.096E-09	9.138E-10
SE	7.995E-08	3.906E-08	2.419E-08	1.287E-08	8.190E-09	5.739E-09	4.275E-09	3.322E-09	2.663E-09	2.185E-09	1.827E-09
SSE	1.511E-07	7.496E-08	4.693E-08	2.534E-08	1.628E-08	1.149E-08	8.609E-09	6.722E-09	5.409E-09	4.454E-09	3.734E-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	5.891E-06	1.296E-06	3.838E-07	1.876E-07	1.134E-07	4.773E-08	1.531E-08	6.700E-09	3.866E-09	2.541E-09
SSW	3.714E-06	8.233E-07	2.470E-07	1.216E-07	7.382E-08	3.127E-08	1.013E-08	4.457E-09	2.578E-09	1.697E-09
SW	1.877E-06	4.117E-07	1.204E-07	5.846E-08	3.517E-08	1.471E-08	4.672E-09	2.027E-09	1.163E-09	7.611E-10
WSW	1.345E-06	2.948E-07	8.617E-08	4.181E-08	2.513E-08	1.048E-08	3.318E-09	1.439E-09	8.261E-10	5.411E-10
W	1.423E-06	3.113E-07	9.095E-08	4.411E-08	2.649E-08	1.103E-08	3.478E-09	1.500E-09	8.580E-10	5.608E-10
WNW	1.732E-06	3.729E-07	1.074E-07	5.171E-08	3.092E-08	1.282E-08	4.031E-09	1.743E-09	1.001E-09	6.562E-10
NW	4.647E-06	1.026E-06	3.052E-07	1.496E-07	9.058E-08	3.823E-08	1.233E-08	5.417E-09	3.135E-09	2.066E-09
NNW	8.716E-06	1.972E-06	6.033E-07	3.002E-07	1.836E-07	7.861E-08	2.587E-08	1.150E-08	6.695E-09	4.426E-09
N	9.639E-06	2.197E-06	6.773E-07	3.383E-07	2.075E-07	8.922E-08	2.955E-08	1.321E-08	7.711E-09	5.110E-09
NNE	6.034E-06	1.369E-06	4.191E-07	2.086E-07	1.276E-07	5.471E-08	1.804E-08	8.044E-09	4.688E-09	3.103E-09
NE	2.570E-06	5.791E-07	1.771E-07	8.806E-08	5.385E-08	2.305E-08	7.589E-09	3.377E-09	1.966E-09	1.300E-09
ENE	1.738E-06	3.924E-07	1.169E-07	5.732E-08	3.469E-08	1.462E-08	4.693E-09	2.050E-09	1.180E-09	7.747E-10
E	1.679E-06	3.735E-07	1.112E-07	5.449E-08	3.298E-08	1.390E-08	4.467E-09	1.954E-09	1.127E-09	7.408E-10
ESE	2.735E-06	6.149E-07	1.801E-07	8.738E-08	5.250E-08	2.186E-08	6.875E-09	2.957E-09	1.687E-09	1.100E-09
SE	5.024E-06	1.121E-06	3.333E-07	1.632E-07	9.871E-08	4.154E-08	1.331E-08	5.807E-09	3.343E-09	2.194E-09
SSE	8.964E-06	2.007E-06	6.118E-07	3.039E-07	1.857E-07	7.942E-08	2.611E-08	1.161E-08	6.761E-09	4.470E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

***** RELATIVE DEPOSITION PER UNIT AREA (MM-2) AT FIXED POINTS BY DOWNWIND SECTORS *****											
DIRECTION	DISTANCES IN MILES										
FROM SITE	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.814E-07	6.134E-08	3.149E-08	1.497E-08	5.378E-09	2.667E-09	1.570E-09	1.028E-09	7.236E-10	5.362E-10	4.132E-10
SSW	9.133E-08	3.088E-08	1.586E-08	7.538E-09	2.708E-09	1.343E-09	7.907E-10	5.177E-10	3.643E-10	2.700E-10	2.081E-10
SW	5.333E-08	1.803E-08	9.26E-09	4.402E-09	1.581E-09	7.842E-10	4.618E-10	3.024E-10	2.127E-10	1.577E-10	1.215E-10
WSW	4.507E-08	1.524E-08	7.825E-09	3.720E-09	1.336E-09	6.627E-10	3.902E-10	2.555E-10	1.798E-10	1.332E-10	1.027E-10
W	5.054E-08	1.709E-08	8.776E-09	4.172E-09	1.499E-09	7.432E-10	4.376E-10	2.865E-10	2.016E-10	1.494E-10	1.151E-10
WNW	7.908E-08	2.674E-08	1.373E-08	6.528E-09	2.345E-09	1.163E-09	6.847E-10	4.483E-10	3.155E-10	2.338E-10	1.802E-10
NW	1.777E-07	6.010E-08	3.086E-08	1.467E-08	5.270E-09	2.613E-09	1.539E-09	1.008E-09	7.090E-10	5.254E-10	4.049E-10
NNW	2.140E-07	7.237E-08	3.716E-08	1.767E-08	6.346E-09	3.147E-09	1.853E-09	1.213E-09	8.538E-10	6.327E-10	4.876E-10
N	2.451E-07	8.288E-08	4.256E-08	2.023E-08	7.267E-09	3.604E-09	2.122E-09	1.390E-09	9.778E-10	7.246E-10	5.584E-10
NNE	1.494E-07	5.053E-08	2.594E-08	1.233E-08	4.430E-09	2.197E-09	1.294E-09	8.471E-10	5.960E-10	4.417E-10	3.404E-10
NE	6.000E-08	2.029E-08	1.042E-08	4.952E-09	1.779E-09	8.822E-10	5.195E-10	3.401E-10	2.393E-10	1.774E-10	1.367E-10
ENE	5.031E-08	1.701E-08	8.736E-09	4.153E-09	1.492E-09	7.398E-10	4.356E-10	2.852E-10	2.007E-10	1.487E-10	1.146E-10
E	6.593E-08	2.230E-08	1.145E-08	5.442E-09	1.955E-09	9.695E-10	5.709E-10	3.738E-10	2.630E-10	1.949E-10	1.502E-10
ESE	1.165E-07	3.939E-08	2.022E-08	9.614E-09	3.453E-09	1.713E-09	1.008E-09	6.603E-10	4.646E-10	3.443E-10	2.654E-10
SE	1.822E-07	6.161E-08	3.163E-08	1.504E-08	5.402E-09	2.679E-09	1.577E-09	1.033E-09	7.268E-10	5.386E-10	4.151E-10
SSE	2.503E-07	8.464E-08	4.346E-08	2.066E-08	7.422E-09	3.680E-09	2.167E-09	1.419E-09	9.985E-10	7.400E-10	5.702E-10

***** RELATIVE DEPOSITION PER UNIT AREA (MM-2) BY DOWNWIND SECTORS *****											
DIRECTION	DISTANCES IN MILES										
FROM SITE	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.283E-10	1.458E-10	8.834E-11	4.465E-11	2.703E-11	1.812E-11	1.298E-11	9.749E-12	7.580E-12	6.055E-12	4.943E-12
SSW	1.653E-10	7.343E-11	4.448E-11	2.248E-11	1.361E-11	9.123E-12	6.537E-12	4.909E-12	3.817E-12	3.049E-12	2.489E-12
SW	9.652E-11	4.288E-11	2.597E-11	1.313E-11	7.946E-12	5.328E-12	3.818E-12	2.867E-12	2.229E-12	1.780E-12	1.453E-12
WSW	8.157E-11	3.623E-11	2.195E-11	1.109E-11	6.715E-12	4.502E-12	3.226E-12	2.422E-12	1.883E-12	1.505E-12	1.228E-12
W	9.148E-11	4.064E-11	2.462E-11	1.244E-11	7.531E-12	5.049E-12	3.618E-12	2.717E-12	2.112E-12	1.687E-12	1.377E-12
WNW	1.431E-10	6.358E-11	3.852E-11	1.947E-11	1.178E-11	7.900E-12	5.661E-12	4.251E-12	3.305E-12	2.640E-12	2.155E-12
NW	3.217E-10	1.429E-10	8.656E-11	4.375E-11	2.648E-11	1.775E-11	1.272E-11	9.553E-12	7.428E-12	5.933E-12	4.843E-12
NNW	3.874E-10	1.721E-10	1.042E-10	5.269E-11	3.189E-11	2.138E-11	1.532E-11	1.150E-11	8.945E-12	7.145E-12	5.832E-12
N	4.436E-10	1.971E-10	1.194E-10	6.034E-11	3.652E-11	2.449E-11	1.755E-11	1.317E-11	1.024E-11	8.183E-12	6.679E-12
NNE	2.704E-10	1.201E-10	7.277E-11	3.678E-11	2.226E-11	1.493E-11	1.070E-11	8.031E-12	6.244E-12	4.988E-12	4.071E-12
NE	1.086E-10	4.824E-11	2.922E-11	1.477E-11	8.939E-12	5.994E-12	4.295E-12	3.225E-12	2.507E-12	2.003E-12	1.635E-12
ENE	9.106E-11	4.045E-11	2.450E-11	1.239E-11	7.496E-12	5.026E-12	3.601E-12	2.704E-12	2.103E-12	1.680E-12	1.371E-12
E	1.193E-10	5.301E-11	3.211E-11	1.623E-11	9.824E-12	6.587E-12	4.720E-12	3.544E-12	2.756E-12	2.201E-12	1.797E-12
ESE	2.108E-10	9.365E-11	5.673E-11	2.867E-11	1.735E-11	1.164E-11	8.337E-12	6.261E-12	4.868E-12	3.888E-12	3.174E-12
SE	3.297E-10	1.465E-10	8.873E-11	4.485E-11	2.715E-11	1.820E-11	1.304E-11	9.793E-12	7.614E-12	6.082E-12	4.965E-12
SSE	4.530E-10	2.013E-10	1.219E-10	6.162E-11	3.729E-11	2.501E-11	1.792E-11	1.345E-11	1.046E-11	8.356E-12	6.821E-12

***** RELATIVE DEPOSITION PER UNIT AREA (MM-2) BY DOWNWIND SECTORS *****											
DIRECTION	SEGMENT BOUNDARIES IN MILES										
FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	
S	3.078E-08	6.305E-09	1.646E-09	7.393E-10	4.182E-10	1.408E-10	4.653E-11	1.844E-11	9.847E-12	6.095E-12	
SSW	1.550E-08	3.175E-09	8.288E-10	3.722E-10	2.106E-10	8.098E-11	2.343E-11	9.285E-12	4.958E-12	3.069E-12	
SW	9.051E-09	1.854E-09	4.840E-10	2.174E-10	1.230E-10	4.729E-11	1.368E-11	5.422E-12	2.895E-12	1.792E-12	
WSW	7.648E-09	1.567E-09	4.090E-10	1.837E-10	1.039E-10	3.996E-11	1.156E-11	4.582E-12	2.447E-12	1.514E-12	
W	8.578E-09	1.757E-09	4.587E-10	2.060E-10	1.165E-10	4.481E-11	1.296E-11	5.138E-12	2.744E-12	1.698E-12	
WNW	1.342E-08	2.749E-09	7.177E-10	3.223E-10	1.823E-10	7.012E-11	2.029E-11	8.040E-12	4.293E-12	2.657E-12	
NW	3.016E-08	6.178E-09	1.613E-09	7.244E-10	4.098E-10	1.576E-10	4.559E-11	1.807E-11	9.649E-12	5.972E-12	
NNW	3.632E-08	7.440E-09	1.942E-09	8.723E-10	4.935E-10	1.898E-10	5.490E-11	2.176E-11	1.162E-11	7.192E-12	
N	4.160E-08	8.520E-09	2.224E-09	9.990E-10	5.651E-10	2.175E-10	6.287E-11	2.492E-11	1.331E-11	8.236E-12	
NNE	2.536E-08	5.194E-09	1.356E-09	6.090E-10	3.445E-10	1.325E-10	3.833E-11	1.519E-11	8.112E-12	5.021E-12	
NE	1.018E-08	2.086E-09	5.445E-10	2.445E-10	1.383E-10	5.320E-11	1.539E-11	6.100E-12	3.257E-12	2.016E-12	
ENE	8.538E-09	1.749E-09	4.566E-10	2.051E-10	1.160E-10	4.461E-11	1.291E-11	5.115E-12	2.731E-12	1.691E-12	
E	1.119E-08	2.292E-09	5.983E-10	2.687E-10	1.520E-10	5.846E-11	1.691E-11	6.703E-12	3.580E-12	2.216E-12	
ESE	1.977E-08	4.049E-09	1.057E-09	4.747E-10	2.686E-10	1.033E-10	2.988E-11	1.184E-11	6.323E-12	3.914E-12	
SE	3.092E-08	6.333E-09	1.653E-09	7.426E-10	4.201E-10	1.615E-10	4.673E-11	1.852E-11	9.891E-12	6.122E-12	
SSE	4.248E-08	8.701E-09	2.271E-09	1.020E-09	5.771E-10	2.219E-10	6.421E-11	2.545E-11	1.359E-11	8.411E-12	

VENTS GROUND LEVEL RELEASES - JAN-DEC 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q		X/Q		D/Q (PER SQ.METER)
			(MILES)	(METERS)	NO DECAY		8,000 DAY DECAY		
					UNDEPLETED	UNDEPLETED	DEPLETED		
A	SITE BOUNDARY	S	0.80	1287.	5.788E-06	5.759E-06	5.127E-06	2.678E-08	
A	SITE BOUNDARY	SSW	0.82	1327.	3.374E-06	3.360E-06	2.986E-06	1.244E-08	
A	SITE BOUNDARY	SW	0.98	1569.	1.137E-06	1.131E-06	9.954E-07	4.698E-09	
A	SITE BOUNDARY	WSW	0.93	1489.	9.234E-07	9.193E-07	8.114E-07	4.546E-09	
A	SITE BOUNDARY	W	0.91	1468.	1.009E-06	1.006E-06	8.880E-07	5.290E-09	
A	SITE BOUNDARY	WNW	0.94	1509.	1.140E-06	1.136E-06	1.001E-06	7.705E-09	
A	SITE BOUNDARY	NW	0.81	1307.	4.389E-06	4.376E-06	3.890E-06	2.520E-08	
A	SITE BOUNDARY	NNW	0.69	1106.	1.140E-05	1.136E-05	1.020E-05	4.303E-08	
A	SITE BOUNDARY	N	0.67	1086.	1.295E-05	1.291E-05	1.160E-05	5.082E-08	
A	SITE BOUNDARY	NNE	0.60	965.	9.734E-06	9.704E-06	8.779E-06	3.754E-08	
A	SITE BOUNDARY	NE	0.62	1005.	3.889E-06	3.877E-06	3.497E-06	1.417E-08	
A	SITE BOUNDARY	ENE	0.59	945.	2.888E-06	2.880E-06	2.609E-06	1.308E-08	
A	SITE BOUNDARY	E	0.53	845.	3.341E-06	3.333E-06	3.040E-06	2.059E-08	
A	SITE BOUNDARY	ESE	0.54	865.	5.170E-06	5.159E-06	4.697E-06	3.501E-08	
A	SITE BOUNDARY	SE	0.65	1046.	7.181E-06	7.162E-06	6.445E-06	4.023E-08	
A	SITE BOUNDARY	SSE	0.81	1307.	8.459E-06	8.425E-06	7.495E-06	3.549E-08	
A	NEAR. RESIDENCE	SW	1.30	2092.	5.847E-07	5.808E-07	5.013E-07	2.258E-09	
A	NEAR. RESIDENCE	WSW	1.30	2092.	4.187E-07	4.161E-07	3.590E-07	1.908E-09	
A	NEAR. RESIDENCE	W	1.00	1609.	8.098E-07	8.065E-07	7.080E-07	4.172E-09	
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.317E-07	3.298E-07	2.798E-07	2.001E-09	
A	NEAR. RESIDENCE	NW	0.90	1448.	3.409E-06	3.398E-06	3.002E-06	1.928E-08	
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.253E-06	1.241E-06	1.040E-06	3.561E-09	
A	NEAR. RESIDENCE	N	3.00	4828.	5.717E-07	5.631E-07	4.522E-07	1.390E-09	
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.319E-07	4.257E-07	3.456E-07	1.081E-09	
A	NEAR. RESIDENCE	ENE	1.70	2736.	3.104E-07	3.079E-07	2.603E-07	1.097E-09	
A	NEAR. RESIDENCE	E	1.80	2897.	2.613E-07	2.594E-07	2.180E-07	1.251E-09	
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.332E-07	2.310E-07	1.892E-07	1.110E-09	
A	NEAREST COW	NNW	3.50	5633.	3.807E-07	3.740E-07	2.956E-07	8.536E-10	
A	NEAREST GARDEN	SW	1.30	2092.	5.847E-07	5.808E-07	5.013E-07	2.258E-09	
A	NEAREST GARDEN	WSW	1.80	2897.	2.043E-07	2.025E-07	1.704E-07	8.548E-10	
A	NEAREST GARDEN	WNW	1.60	2575.	3.317E-07	3.298E-07	2.798E-07	2.001E-09	
A	NEAREST GARDEN	NW	2.80	4506.	2.909E-07	2.876E-07	2.321E-07	1.182E-09	
A	NEAREST GARDEN	NNW	1.90	3058.	1.253E-06	1.241E-06	1.040E-06	3.561E-09	
A	NEAREST GARDEN	N	3.00	4828.	5.717E-07	5.631E-07	4.522E-07	1.390E-09	
A	NEAREST GARDEN	ENE	1.70	2736.	3.104E-07	3.079E-07	2.603E-07	1.097E-09	
A	NEAREST GARDEN	E	1.80	2897.	2.613E-07	2.594E-07	2.180E-07	1.251E-09	
A	NEAREST GARDEN	ESE	2.40	3863.	2.332E-07	2.310E-07	1.892E-07	1.110E-09	

Atmospheric Diffusion Estimates

Elevated Releases

January-March 1995

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
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	6.372E-08	1.192E-07	1.349E-07	1.128E-07	8.556E-08	6.573E-08	5.144E-08	4.122E-08	3.381E-08	3.655E-08	3.824E-08	
SSW	3.198E-08	4.410E-08	4.861E-08	4.897E-08	4.719E-08	3.982E-08	3.252E-08	3.307E-08	3.203E-08	2.742E-08	2.390E-08	
SW	1.046E-08	4.362E-08	6.374E-08	8.254E-08	9.415E-08	5.992E-08	4.156E-08	3.070E-08	2.375E-08	1.903E-08	1.568E-08	
WSW	3.961E-09	2.029E-08	3.409E-08	4.921E-08	8.774E-08	5.745E-08	4.088E-08	3.093E-08	2.447E-08	2.003E-08	1.683E-08	
W	7.086E-09	3.582E-08	6.247E-08	6.536E-08	5.818E-08	3.799E-08	2.741E-08	2.111E-08	1.701E-08	1.416E-08	1.208E-08	
WNW	1.655E-08	1.036E-07	1.653E-07	1.776E-07	1.722E-07	1.036E-07	6.987E-08	5.336E-08	4.290E-08	3.415E-08	2.802E-08	
NW	6.602E-09	4.072E-08	1.256E-07	2.555E-07	3.681E-07	2.154E-07	1.426E-07	1.044E-07	8.065E-08	6.359E-08	5.176E-08	
NNW	8.981E-09	1.176E-08	3.385E-08	5.986E-08	9.378E-08	9.501E-08	8.924E-08	8.180E-08	7.651E-08	6.081E-08	4.984E-08	
N	7.547E-09	3.606E-08	4.796E-08	4.712E-08	4.280E-08	3.656E-08	3.041E-08	2.491E-08	2.074E-08	1.756E-08	1.509E-08	
NNE	8.765E-09	5.941E-08	7.611E-08	6.269E-08	4.771E-08	3.835E-08	3.149E-08	2.635E-08	2.245E-08	1.944E-08	1.708E-08	
NE	1.704E-09	2.721E-08	4.571E-08	4.298E-08	3.764E-08	3.228E-08	2.741E-08	2.339E-08	2.017E-08	1.761E-08	1.556E-08	
ENE	2.986E-11	1.815E-09	5.403E-09	8.190E-09	1.020E-08	9.597E-09	9.428E-09	7.306E-09	6.360E-09	5.586E-09	4.959E-09	
E	4.593E-16	4.111E-10	7.073E-09	1.423E-08	1.859E-08	1.692E-08	1.433E-08	1.203E-08	1.019E-08	8.744E-09	7.603E-09	
ESE	2.651E-09	1.492E-08	2.401E-08	2.654E-08	2.655E-08	2.312E-08	1.945E-08	1.638E-08	1.395E-08	1.203E-08	1.052E-08	
SE	1.165E-08	4.826E-08	6.242E-08	6.577E-08	6.429E-08	5.509E-08	4.573E-08	3.803E-08	3.201E-08	2.731E-08	2.362E-08	
SSE	2.828E-08	1.095E-07	1.403E-07	1.324E-07	1.132E-07	9.149E-08	7.360E-08	6.004E-08	4.989E-08	6.607E-08	7.720E-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	3.386E-08	2.347E-08	1.534E-08	8.890E-09	6.395E-09	4.936E-09	3.869E-09	3.152E-09	2.676E-09	2.313E-09	2.013E-09
SSW	2.171E-08	1.577E-08	1.016E-08	5.764E-09	4.039E-09	3.009E-09	2.335E-09	1.886E-09	1.570E-09	1.336E-09	1.157E-09
SW	1.392E-08	8.890E-09	5.695E-09	3.203E-09	2.178E-09	1.611E-09	1.260E-09	1.014E-09	8.403E-10	7.125E-10	6.150E-10
WSW	1.536E-08	1.201E-08	9.471E-09	6.543E-09	4.499E-09	3.372E-09	2.672E-09	2.192E-09	1.847E-09	1.590E-09	1.391E-09
W	1.050E-08	6.429E-09	5.509E-09	4.648E-09	4.094E-09	3.141E-09	2.492E-09	2.052E-09	1.735E-09	1.498E-09	1.314E-09
WNW	2.392E-08	1.385E-08	9.653E-09	6.135E-09	4.326E-09	3.300E-09	2.660E-09	2.203E-09	1.859E-09	1.595E-09	1.391E-09
NW	4.366E-08	2.396E-08	1.616E-08	9.694E-09	6.512E-09	4.793E-09	3.804E-09	3.098E-09	2.583E-09	2.202E-09	1.910E-09
NNW	4.296E-08	2.537E-08	1.664E-08	9.687E-09	6.623E-09	4.940E-09	3.933E-09	3.246E-09	2.792E-09	2.416E-09	2.106E-09
N	1.316E-08	7.879E-09	6.055E-09	4.317E-09	3.399E-09	2.733E-09	2.137E-09	1.732E-09	1.442E-09	1.228E-09	1.064E-09
NNE	1.938E-08	3.411E-08	2.232E-08	1.299E-08	8.901E-09	6.651E-09	5.249E-09	4.301E-09	3.621E-09	3.113E-09	2.720E-09
NE	1.769E-08	2.524E-08	1.633E-08	9.348E-09	6.329E-09	4.686E-09	3.701E-09	3.026E-09	2.537E-09	2.169E-09	1.886E-09
ENE	5.542E-09	7.868E-09	5.157E-09	2.992E-09	2.037E-09	1.514E-09	1.215E-09	1.003E-09	8.393E-10	7.173E-10	6.235E-10
E	7.944E-09	9.745E-09	6.355E-09	3.662E-09	2.481E-09	1.837E-09	1.438E-09	1.170E-09	9.989E-10	8.661E-10	7.520E-10
ESE	1.095E-08	1.379E-08	9.159E-09	5.399E-09	3.715E-09	2.781E-09	2.196E-09	1.799E-09	1.514E-09	1.301E-09	1.136E-09
SE	2.069E-08	1.256E-08	9.509E-09	6.576E-09	4.746E-09	3.702E-09	3.035E-09	2.574E-09	2.155E-09	1.843E-09	1.602E-09
SSE	6.547E-08	3.603E-08	2.298E-08	1.289E-08	8.610E-09	6.308E-09	4.899E-09	3.960E-09	3.296E-09	2.804E-09	2.428E-09

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

		SEGMENT BOUNDARIES IN MILES									
DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	
S	1.216E-07	8.281E-08	5.116E-08	3.697E-08	3.612E-08	2.216E-08	9.214E-09	4.898E-09	3.175E-09	2.309E-09	
SSW	4.777E-08	4.431E-08	3.469E-08	3.057E-08	2.413E-08	1.460E-08	5.974E-09	3.014E-09	1.894E-09	1.339E-09	
SW	6.762E-08	7.636E-08	4.211E-08	2.394E-08	1.602E-08	8.587E-09	3.301E-09	1.622E-09	1.018E-09	7.143E-10	
WSW	3.775E-08	6.571E-08	4.132E-08	2.463E-08	1.724E-08	1.163E-08	6.285E-09	3.393E-09	2.198E-09	1.592E-09	
W	5.783E-08	5.080E-08	2.771E-08	1.710E-08	1.211E-08	6.926E-09	4.593E-09	3.136E-09	2.057E-09	1.500E-09	
WNW	1.571E-07	1.429E-07	7.226E-08	4.255E-08	2.832E-08	1.422E-08	6.113E-09	3.318E-09	2.203E-09	1.598E-09	
NW	1.645E-07	2.752E-07	1.467E-07	8.095E-08	5.226E-08	2.487E-08	9.717E-09	4.856E-09	3.104E-09	2.207E-09	
NNW	4.050E-08	8.679E-08	8.780E-08	7.204E-08	5.054E-08	2.540E-08	9.869E-09	4.986E-09	3.269E-09	2.412E-09	
N	4.494E-08	4.099E-08	2.985E-08	2.072E-08	1.510E-08	8.241E-09	4.295E-09	2.672E-09	1.738E-09	1.231E-09	
NNE	6.643E-08	4.688E-08	3.126E-08	2.242E-08	1.863E-08	2.560E-08	1.325E-08	6.690E-09	4.313E-09	3.118E-09	
NE	4.038E-08	3.644E-08	2.710E-08	2.011E-08	1.695E-08	1.960E-08	9.558E-09	4.730E-09	3.033E-09	2.173E-09	
ENE	5.844E-09	9.484E-09	8.291E-09	6.336E-09	5.360E-09	6.146E-09	3.049E-09	1.534E-09	1.001E-09	7.187E-10	
E	8.772E-09	1.688E-08	1.410E-08	1.017E-08	8.067E-09	7.838E-09	3.736E-09	1.849E-09	1.181E-09	8.632E-10	
ESE	2.311E-08	2.502E-08	1.920E-08	1.391E-08	1.113E-08	1.110E-08	5.486E-09	2.796E-09	1.804E-09	1.303E-09	
SE	6.076E-08	6.053E-08	4.515E-08	3.194E-08	2.363E-08	1.301E-08	6.414E-09	3.714E-09	2.546E-09	1.846E-09	
SSE	1.299E-07	1.078E-07	7.295E-08	5.896E-08	6.956E-08	3.677E-08	1.323E-08	6.358E-09	3.975E-09	2.811E-09	

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OFEN 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	6.371E-08	1.191E-07	1.347E-07	1.127E-07	8.536E-08	6.552E-08	5.122E-08	4.101E-08	3.360E-08	3.630E-08	3.793E-08
SSW	3.196E-08	4.406E-08	4.855E-08	4.888E-08	4.703E-08	3.962E-08	3.232E-08	3.281E-08	3.172E-08	2.712E-08	2.359E-08
SW	1.046E-08	4.359E-08	6.365E-08	8.237E-08	9.383E-08	5.964E-08	4.131E-08	3.047E-08	2.354E-08	1.884E-08	1.550E-08
WSW	3.960E-09	2.028E-08	3.405E-08	4.910E-08	8.735E-08	5.708E-08	4.054E-08	3.062E-08	2.418E-08	1.975E-08	1.657E-08
W	7.082E-09	3.578E-08	6.238E-08	6.521E-08	5.794E-08	3.777E-08	2.720E-08	2.091E-08	1.682E-08	1.397E-08	1.189E-08
WNW	1.655E-08	1.035E-07	1.650E-07	1.771E-07	1.713E-07	1.029E-07	6.923E-08	5.276E-08	4.232E-08	3.362E-08	2.753E-08
NW	6.598E-09	4.069E-08	1.255E-07	2.551E-07	3.670E-07	2.145E-07	1.418E-07	1.038E-07	8.004E-08	6.304E-08	5.125E-08
NNW	8.978E-09	1.175E-08	3.381E-08	5.974E-08	9.345E-08	9.454E-08	8.868E-08	8.117E-08	7.581E-08	6.017E-08	4.925E-08
N	7.545E-09	3.605E-08	4.792E-08	4.707E-08	4.270E-08	3.645E-08	3.029E-08	2.480E-08	2.063E-08	1.745E-08	1.498E-08
NNE	8.763E-09	5.937E-08	7.603E-08	6.259E-08	4.758E-08	3.821E-08	3.134E-08	2.620E-08	2.230E-08	1.929E-08	1.694E-08
NE	1.704E-09	2.719E-08	4.563E-08	4.287E-08	3.749E-08	3.210E-08	2.722E-08	2.319E-08	1.998E-08	1.742E-08	1.537E-08
ENE	2.985E-11	1.814E-09	5.397E-09	8.175E-09	1.017E-08	9.563E-09	8.390E-09	7.268E-09	6.321E-09	5.547E-09	4.919E-09
E	4.592E-16	4.108E-10	7.064E-09	1.420E-08	1.853E-08	1.686E-08	1.426E-08	1.196E-08	1.012E-08	8.675E-09	7.536E-09
ESE	2.649E-09	1.490E-08	2.394E-08	2.645E-08	2.643E-08	2.298E-08	1.931E-08	1.624E-08	1.381E-08	1.189E-08	1.039E-08
SE	1.165E-08	4.823E-08	6.237E-08	6.569E-08	6.416E-08	5.493E-08	4.555E-08	3.786E-08	3.183E-08	2.714E-08	2.346E-08
SSE	2.827E-08	1.094E-07	1.402E-07	1.323E-07	1.131E-07	9.128E-08	7.338E-08	5.982E-08	4.968E-08	6.572E-08	7.668E-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	3.354E-08	2.307E-08	1.498E-08	8.573E-09	6.077E-09	4.621E-09	3.572E-09	2.870E-09	2.402E-09	2.046E-09	1.755E-09
SSW	2.139E-08	1.540E-08	9.841E-09	5.495E-09	3.790E-09	2.779E-09	2.122E-09	1.688E-09	1.383E-09	1.159E-09	9.878E-10
SW	1.374E-08	8.704E-09	5.535E-09	3.067E-09	2.055E-09	1.496E-09	1.153E-09	9.141E-10	7.466E-10	6.238E-10	5.306E-10
WSW	1.508E-08	1.163E-08	9.055E-09	6.099E-09	4.094E-09	2.996E-09	2.317E-09	1.856E-09	1.527E-09	1.283E-09	1.095E-09
W	1.032E-08	6.251E-09	5.291E-09	4.352E-09	3.737E-09	2.800E-09	2.170E-09	1.746E-09	1.443E-09	1.217E-09	1.043E-09
WNW	2.345E-08	1.342E-08	9.255E-09	5.750E-09	3.965E-09	2.958E-09	2.331E-09	1.888E-09	1.558E-09	1.307E-09	1.115E-09
NW	4.318E-08	2.356E-08	1.580E-08	9.372E-09	6.225E-09	4.531E-09	3.556E-09	2.864E-09	2.362E-09	1.992E-09	1.709E-09
NNW	4.239E-08	2.486E-08	1.619E-08	9.298E-09	6.271E-09	4.614E-09	3.624E-09	2.950E-09	2.502E-09	2.136E-09	1.836E-09
N	1.305E-08	7.789E-09	5.965E-09	4.224E-09	3.299E-09	2.630E-09	2.041E-09	1.642E-09	1.357E-09	1.147E-09	9.862E-10
NNE	1.921E-08	3.362E-08	2.189E-08	1.262E-08	8.560E-09	6.334E-09	4.950E-09	4.016E-09	3.348E-09	2.851E-09	2.467E-09
NE	1.746E-08	2.481E-08	1.596E-08	9.036E-09	6.051E-09	4.432E-09	3.463E-09	2.802E-09	2.325E-09	1.967E-09	1.692E-09
ENE	5.492E-09	7.745E-09	5.049E-09	2.898E-09	1.952E-09	1.435E-09	1.140E-09	9.311E-10	7.707E-10	6.518E-10	5.607E-10
E	7.867E-09	9.610E-09	6.238E-09	3.562E-09	2.391E-09	1.754E-09	1.361E-09	1.098E-09	9.286E-10	7.978E-10	6.865E-10
ESE	1.080E-08	1.356E-08	8.962E-09	5.230E-09	3.563E-09	2.641E-09	2.065E-09	1.676E-09	1.397E-09	1.189E-09	1.029E-09
SE	2.053E-08	1.241E-08	9.365E-09	6.427E-09	4.601E-09	3.556E-09	2.888E-09	2.423E-09	2.011E-09	1.704E-09	1.469E-09
SSE	6.497E-08	3.560E-08	2.260E-08	1.258E-08	8.326E-09	6.048E-09	4.657E-09	3.733E-09	3.080E-09	2.599E-09	2.231E-09

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

SEGMENT BOUNDARIES IN MILES										
DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.215E-07	8.261E-08	5.095E-08	3.675E-08	3.582E-08	2.180E-08	8.888E-09	4.590E-09	2.892E-09	2.044E-09
SSW	4.770E-08	4.415E-08	3.446E-08	3.028E-08	2.382E-08	1.426E-08	5.703E-09	2.786E-09	1.696E-09	1.162E-09
SW	6.751E-08	7.609E-08	4.186E-08	2.373E-08	1.584E-08	8.414E-09	3.165E-09	1.508E-09	9.186E-10	6.257E-10
WSW	3.768E-08	6.540E-08	4.098E-08	2.433E-08	1.696E-08	1.125E-08	5.865E-09	3.017E-09	1.862E-09	1.286E-09
W	5.773E-08	5.059E-08	2.750E-08	1.690E-08	1.192E-08	6.728E-09	4.287E-09	2.798E-09	1.752E-09	1.219E-09
WNW	1.567E-07	1.422E-07	7.161E-08	4.199E-08	2.782E-08	1.380E-08	5.736E-09	2.976E-09	1.889E-09	1.310E-09
NW	1.642E-07	2.743E-07	1.460E-07	8.035E-08	5.176E-08	2.447E-08	9.402E-09	4.593E-09	2.871E-09	1.997E-09
NNW	4.043E-08	8.645E-08	8.724E-08	7.139E-08	4.995E-08	2.490E-08	9.484E-09	4.660E-09	2.972E-09	2.133E-09
N	4.490E-08	4.089E-08	2.973E-08	2.061E-08	1.500E-08	8.148E-09	4.200E-09	2.573E-09	1.648E-09	1.150E-09
NNE	6.635E-08	4.675E-08	3.112E-08	2.227E-08	1.848E-08	2.521E-08	1.288E-08	6.374E-09	4.028E-09	2.856E-09
NE	4.030E-08	3.629E-08	2.691E-08	1.992E-08	1.675E-08	1.924E-08	9.248E-09	4.476E-09	2.809E-09	1.971E-09
ENE	5.836E-09	9.456E-09	8.254E-09	6.296E-09	5.317E-09	6.046E-09	2.956E-09	1.455E-09	9.296E-10	6.533E-10
E	8.758E-09	1.683E-08	1.403E-08	1.010E-08	7.996E-09	7.724E-09	3.636E-09	1.767E-09	1.108E-09	7.953E-10
ESE	2.305E-08	2.490E-08	1.906E-08	1.377E-08	1.099E-08	1.090E-08	5.319E-09	2.657E-09	1.681E-09	1.191E-09
SE	6.070E-08	6.040E-08	4.498E-08	3.177E-08	2.346E-08	1.286E-08	6.268E-09	3.567E-09	2.399E-09	1.708E-09
SSE	1.298E-07	1.076E-07	7.273E-08	5.869E-08	6.909E-08	3.635E-08	1.291E-08	6.099E-09	3.748E-09	2.605E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

SECTOR	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)										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	5.000	5.500	6.000	6.500	7.000	7.500	8.000	8.500	9.000
S	6.372E-08	1.181E-07	1.321E-07	1.103E-07	8.333E-08	6.366E-08	4.950E-08	3.941E-08	3.212E-08	3.470E-08	3.631E-08									
SSW	3.197E-08	4.370E-08	4.776E-08	4.822E-08	4.633E-08	3.880E-08	3.142E-08	3.172E-08	3.055E-08	2.598E-08	2.251E-08									
SW	1.046E-08	4.322E-08	6.269E-08	8.158E-08	9.241E-08	5.812E-08	3.990E-08	2.921E-08	2.242E-08	1.784E-08	1.460E-08									
WSW	3.961E-09	2.011E-08	3.348E-08	4.859E-08	8.670E-08	5.648E-08	4.004E-08	3.020E-08	2.383E-08	1.946E-08	1.632E-08									
W	7.085E-09	3.516E-08	6.148E-08	6.416E-08	5.675E-08	3.681E-08	2.645E-08	2.030E-08	1.632E-08	1.355E-08	1.154E-08									
WNW	1.655E-08	1.027E-07	1.624E-07	1.744E-07	1.682E-07	1.002E-07	6.706E-08	5.096E-08	4.081E-08	3.231E-08	2.638E-08									
NW	6.601E-09	4.036E-08	1.244E-07	2.534E-07	3.620E-07	2.095E-07	1.375E-07	1.001E-07	7.688E-08	6.025E-08	4.873E-08									
NNW	8.980E-09	1.166E-08	3.347E-08	5.944E-08	9.276E-08	9.343E-08	8.747E-08	8.004E-08	7.483E-08	5.921E-08	4.828E-08									
N	7.546E-09	3.574E-08	4.710E-08	4.633E-08	4.198E-08	3.567E-08	2.948E-08	2.401E-08	1.988E-08	1.674E-08	1.431E-08									
NNE	8.764E-09	5.887E-08	7.446E-08	6.108E-08	4.638E-08	3.719E-08	3.044E-08	2.539E-08	2.156E-08	1.862E-08	1.632E-08									
NE	1.704E-09	2.696E-08	4.474E-08	4.194E-08	3.668E-08	3.137E-08	2.654E-08	2.256E-08	1.939E-08	1.687E-08	1.486E-08									
ENE	2.985E-11	1.800E-09	5.345E-09	8.129E-09	1.007E-08	9.425E-09	8.231E-09	7.101E-09	6.156E-09	5.388E-09	4.767E-09									
E	4.592E-16	4.110E-10	7.070E-09	1.422E-08	1.841E-08	1.660E-08	1.394E-08	1.162E-08	9.770E-09	8.329E-09	7.202E-09									
ESE	2.650E-09	1.478E-08	2.358E-08	2.609E-08	2.603E-08	2.253E-08	1.883E-08	1.576E-08	1.335E-08	1.146E-08	9.969E-09									
SE	1.165E-08	4.783E-08	6.142E-08	6.489E-08	6.326E-08	5.388E-08	4.443E-08	3.672E-08	3.073E-08	2.609E-08	2.245E-08									
SSE	2.828E-08	1.085E-07	1.378E-07	1.301E-07	1.110E-07	8.915E-08	7.127E-08	5.779E-08	4.776E-08	3.944E-08	3.432E-08									

BEARING	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)										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	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000
S	3.205E-08	2.187E-08	1.384E-08	7.522E-09	5.038E-09	3.652E-09	2.716E-09	2.110E-09	1.718E-09	1.436E-09	1.212E-09									
SSW	2.038E-08	1.456E-08	9.076E-09	4.835E-09	3.175E-09	2.265E-09	1.693E-09	1.321E-09	1.065E-09	8.785E-10	7.390E-10									
SW	1.291E-08	8.086E-09	5.016E-09	2.654E-09	1.695E-09	1.187E-09	8.912E-10	6.916E-10	5.544E-10	4.556E-10	3.818E-10									
WSW	1.489E-08	1.145E-08	8.723E-09	5.701E-09	3.731E-09	2.679E-09	2.043E-09	1.617E-09	1.319E-09	1.101E-09	9.354E-10									
W	1.002E-08	6.095E-09	5.222E-09	4.150E-09	3.403E-09	2.503E-09	1.912E-09	1.520E-09	1.244E-09	1.042E-09	8.879E-10									
WNW	2.240E-08	1.258E-08	8.490E-09	5.034E-09	3.274E-09	2.327E-09	1.781E-09	1.418E-09	1.153E-09	9.553E-10	8.063E-10									
NW	4.086E-08	2.173E-08	1.420E-08	8.601E-09	5.064E-09	3.543E-09	2.700E-09	2.124E-09	1.716E-09	1.420E-09	1.198E-09									
NNW	4.139E-08	2.368E-08	1.498E-08	8.098E-09	5.083E-09	3.526E-09	2.636E-09	2.058E-09	1.698E-09	1.421E-09	1.200E-09									
N	1.242E-08	7.307E-09	5.566E-09	3.937E-09	3.031E-09	2.338E-09	1.773E-09	1.398E-09	1.135E-09	9.434E-10	7.993E-10									
NNE	1.860E-08	3.295E-08	2.083E-08	1.139E-08	7.332E-09	5.200E-09	3.919E-09	3.081E-09	2.498E-09	2.073E-09	1.753E-09									
NE	1.696E-08	2.426E-08	1.516E-08	8.158E-09	5.203E-09	3.664E-09	2.777E-09	2.197E-09	1.788E-09	1.486E-09	1.258E-09									
ENE	5.339E-09	7.597E-09	4.810E-09	2.598E-09	1.629E-09	1.129E-09	8.525E-10	6.722E-10	5.422E-10	4.480E-10	3.773E-10									
E	7.517E-09	9.259E-09	5.845E-09	3.151E-09	1.983E-09	1.378E-09	1.021E-09	7.901E-10	6.439E-10	5.354E-10	4.490E-10									
ESE	1.038E-08	1.318E-08	8.475E-09	4.670E-09	2.975E-09	2.086E-09	1.555E-09	1.209E-09	9.697E-10	7.969E-10	6.673E-10									
SE	1.957E-08	1.167E-08	8.757E-09	5.990E-09	4.280E-09	3.314E-09	2.703E-09	2.273E-09	1.853E-09	1.546E-09	1.314E-09									
SSE	6.265E-08	3.338E-08	2.053E-08	1.082E-08	6.819E-09	4.745E-09	3.525E-09	2.737E-09	2.195E-09	1.805E-09	1.513E-09									

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

SEGMENT BOUNDARIES IN MILES										
DIRECTION FROM SITE	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	
S	1.193E-07	8.057E-08	4.924E-08	3.518E-08	3.426E-08	2.057E-08	7.822E-09	3.647E-09	2.134E-09	1.437E-09
SSW	4.706E-08	4.340E-08	3.351E-08	2.914E-08	2.275E-08	1.341E-08	5.039E-09	2.279E-09	1.330E-09	8.820E-10
SW	6.676E-08	7.477E-08	4.048E-08	2.262E-08	1.494E-08	7.794E-09	2.753E-09	1.204E-09	6.964E-10	4.575E-10
WSW	3.722E-08	6.480E-08	4.049E-08	2.399E-08	1.672E-08	1.100E-08	5.497E-09	2.705E-09	1.625E-09	1.104E-09
W	5.682E-08	4.954E-08	2.675E-08	1.640E-08	1.157E-08	6.579E-09	4.056E-09	2.506E-09	1.527E-09	1.045E-09
WNW	1.544E-07	1.393E-07	6.945E-08	4.047E-08	2.666E-08	1.294E-08	5.020E-09	2.361E-09	1.421E-09	9.587E-10
NW	1.631E-07	2.701E-07	1.417E-07	7.717E-08	4.923E-08	2.263E-08	8.072E-09	3.611E-09	2.133E-09	1.425E-09
NNW	4.016E-08	8.565E-08	8.609E-08	7.037E-08	4.897E-08	2.375E-08	8.288E-09	3.585E-09	2.086E-09	1.421E-09
N	4.423E-08	4.014E-08	2.894E-08	1.986E-08	1.433E-08	7.670E-09	3.896E-09	2.297E-09	1.405E-09	9.467E-10
NNE	6.505E-08	4.556E-08	3.022E-08	2.153E-08	1.785E-08	2.438E-08	1.168E-08	5.256E-09	3.098E-09	2.080E-09
NE	3.955E-08	3.549E-08	2.623E-08	1.934E-08	1.624E-08	1.859E-08	8.401E-09	3.719E-09	2.207E-09	1.491E-09
ENE	5.795E-09	9.353E-09	8.098E-09	6.133E-09	5.163E-09	5.857E-09	2.659E-09	1.152E-09	6.742E-10	4.497E-10
E	8.768E-09	1.668E-08	1.372E-08	9.749E-09	7.653E-09	7.354E-09	3.230E-09	1.396E-09	8.003E-10	5.356E-10
ESE	2.274E-08	2.449E-08	1.859E-08	1.332E-08	1.056E-08	1.047E-08	4.762E-09	2.110E-09	1.217E-09	8.001E-10
SE	5.994E-08	5.945E-08	4.387E-08	3.067E-08	2.246E-08	1.213E-08	5.845E-09	3.327E-09	2.236E-09	1.551E-09
SSE	1.278E-07	1.055E-07	7.064E-08	5.660E-08	6.677E-08	3.417E-08	1.120E-08	4.807E-09	2.756E-09	1.877E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 1995

CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION

DISTANCES IN MILES

FROM SITE

	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.140E-08	8.791E-09	6.756E-09	4.254E-09	1.910E-09	1.130E-09	7.494E-10	5.326E-10	3.967E-10	3.134E-10	2.821E-10
SSW	2.700E-09	2.333E-09	2.185E-09	1.625E-09	8.416E-10	5.293E-10	3.625E-10	2.621E-10	2.386E-10	1.807E-10	1.415E-10
SW	2.141E-09	1.754E-09	1.510E-09	1.053E-09	8.518E-10	4.601E-10	2.845E-10	1.931E-10	1.396E-10	1.056E-10	8.270E-11
WSW	1.325E-09	1.020E-09	7.816E-10	6.399E-10	3.372E-10	1.796E-10	1.103E-10	7.448E-11	5.370E-11	4.058E-11	3.178E-11
W	8.007E-10	1.460E-09	1.063E-09	6.529E-10	2.871E-10	1.539E-10	9.469E-11	6.404E-11	4.619E-11	3.490E-11	2.733E-11
WNW	4.233E-09	3.216E-09	3.199E-09	2.081E-09	1.066E-09	5.456E-10	3.269E-10	2.171E-10	1.607E-10	1.212E-10	9.559E-11
NW	2.731E-09	2.519E-09	2.583E-09	4.230E-09	2.672E-09	1.333E-09	7.875E-10	5.211E-10	3.747E-10	2.876E-10	2.327E-10
NNW	1.358E-09	1.215E-09	1.196E-09	9.201E-10	8.524E-10	4.627E-10	2.912E-10	2.387E-10	1.778E-10	1.417E-10	1.196E-10
N	4.286E-09	3.533E-09	3.071E-09	2.160E-09	1.072E-09	6.624E-10	4.497E-10	3.237E-10	2.427E-10	1.876E-10	1.485E-10
NNE	5.818E-09	4.408E-09	3.266E-09	1.979E-09	8.542E-10	4.957E-10	3.250E-10	2.296E-10	1.705E-10	1.313E-10	1.039E-10
NE	2.916E-09	2.245E-09	1.719E-09	1.079E-09	4.830E-10	2.853E-10	1.890E-10	1.343E-10	9.998E-11	7.707E-11	6.101E-11
ENE	2.759E-10	2.690E-10	2.946E-10	2.413E-10	1.334E-10	8.592E-11	5.955E-11	4.333E-11	3.266E-11	2.530E-11	2.003E-11
E	3.923E-11	2.354E-10	5.012E-10	5.191E-10	3.247E-10	2.174E-10	1.536E-10	1.128E-10	8.544E-11	6.632E-11	5.252E-11
ESE	5.586E-10	5.786E-10	6.756E-10	5.721E-10	3.226E-10	2.093E-10	1.456E-10	1.061E-10	8.005E-11	6.203E-11	4.912E-11
SE	4.327E-09	3.776E-09	3.590E-09	2.697E-09	1.407E-09	8.873E-10	6.085E-10	4.404E-10	3.310E-10	2.562E-10	2.028E-10
SSE	1.257E-08	1.023E-08	8.712E-09	6.025E-09	2.947E-09	1.611E-09	1.226E-09	8.810E-10	6.600E-10	6.100E-10	5.504E-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	2.271E-10	1.304E-10	8.457E-11	4.730E-11	3.028E-11	2.336E-11	1.674E-11	1.256E-11	9.819E-12	7.812E-12	6.377E-12
SSW	1.158E-10	6.297E-11	3.982E-11	2.157E-11	1.575E-11	1.101E-11	7.892E-12	5.930E-12	4.761E-12	3.803E-12	3.104E-12
SW	6.719E-11	3.617E-11	2.284E-11	1.238E-11	7.816E-12	6.057E-12	4.635E-12	3.543E-12	2.755E-12	2.201E-12	1.796E-12
WSW	2.559E-11	2.478E-11	1.821E-11	1.095E-11	6.628E-12	4.444E-12	3.225E-12	2.422E-12	1.883E-12	1.504E-12	1.228E-12
W	2.199E-11	9.930E-12	1.028E-11	8.048E-12	4.923E-12	3.355E-12	2.404E-12	1.805E-12	1.404E-12	1.121E-12	9.151E-13
WNW	8.001E-11	4.091E-11	2.669E-11	1.507E-11	1.046E-11	7.211E-12	5.063E-12	3.812E-12	3.073E-12	2.455E-12	2.004E-12
NW	1.976E-10	1.127E-10	7.826E-11	4.850E-11	2.956E-11	1.984E-11	1.449E-11	1.088E-11	8.560E-12	6.838E-12	5.581E-12
NNW	1.059E-10	6.891E-11	5.089E-11	3.144E-11	2.019E-11	1.343E-11	9.121E-12	6.728E-12	5.096E-12	4.072E-12	3.324E-12
N	1.199E-10	5.714E-11	3.508E-11	1.875E-11	2.970E-11	1.996E-11	1.430E-11	1.074E-11	8.353E-12	6.674E-12	5.448E-12
NNE	8.408E-11	1.606E-10	1.002E-10	5.256E-11	3.224E-11	2.162E-11	1.547E-11	1.159E-11	8.989E-12	7.171E-12	5.847E-12
NE	4.933E-11	1.044E-10	6.569E-11	3.476E-11	2.135E-11	1.428E-11	1.010E-11	7.533E-12	5.945E-12	4.749E-12	3.876E-12
ENE	1.615E-11	3.039E-11	2.368E-11	1.519E-11	9.809E-12	6.489E-12	4.539E-12	2.718E-12	2.114E-12	1.690E-12	1.381E-12
E	4.230E-11	4.148E-11	2.915E-11	1.727E-11	1.093E-11	7.253E-12	5.110E-12	3.762E-12	2.880E-12	2.424E-12	1.976E-12
ESE	3.960E-11	5.244E-11	3.907E-11	2.427E-11	1.557E-11	1.033E-11	7.254E-12	5.319E-12	4.054E-12	3.185E-12	2.563E-12
SE	1.636E-10	7.785E-11	4.770E-11	2.541E-11	1.576E-11	1.101E-11	8.342E-12	1.640E-11	1.262E-11	1.001E-11	8.135E-12
SSE	4.563E-10	3.267E-10	1.998E-10	1.021E-10	6.203E-11	4.155E-11	2.973E-11	2.229E-11	1.731E-11	1.381E-11	1.126E-11

RELATIVE DEPOSITION PER UNIT AREA (M**2) BY DOWNWIND SECTORS

DIRECTION

SEGMENT BOUNDARIES IN MILES

FROM SITE

	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.096E-09	2.085E-09	7.643E-10	4.038E-10	2.710E-10	1.315E-10	4.802E-11	2.256E-11	1.271E-11	7.875E-12
SSW	1.969E-09	8.770E-10	3.668E-10	2.232E-10	1.436E-10	6.442E-11	2.304E-11	1.103E-11	6.045E-12	3.828E-12
SW	1.361E-09	7.225E-10	2.948E-10	1.419E-10	8.374E-11	3.714E-11	1.267E-11	5.957E-12	3.555E-12	2.215E-12
WSW	7.716E-10	3.344E-10	1.144E-10	5.464E-11	3.209E-11	2.204E-11	1.064E-11	4.539E-12	2.446E-12	1.514E-12
W	9.690E-10	3.092E-10	9.821E-11	4.699E-11	2.760E-11	1.277E-11	7.156E-12	3.393E-12	1.823E-12	1.129E-12
WNW	2.706E-09	1.060E-09	3.413E-10	1.618E-10	9.741E-11	4.328E-11	1.560E-11	7.218E-12	3.888E-12	2.471E-12
NW	3.301E-09	2.423E-09	8.263E-10	3.833E-10	2.360E-10	1.163E-10	4.670E-11	2.029E-11	1.103E-11	6.882E-12
NNW	1.078E-09	6.942E-10	3.159E-10	1.815E-10	1.211E-10	6.912E-11	3.076E-11	1.351E-11	6.790E-12	4.098E-12
N	2.769E-09	1.132E-09	4.560E-10	2.43E-10	1.495E-10	6.128E-11	2.724E-11	2.029E-11	1.085E-11	6.718E-12
NNE	2.948E-09	9.449E-10	3.324E-10	1.724E-10	1.047E-10	1.168E-10	5.413E-11	2.199E-11	1.170E-11	7.220E-12
NE	1.552E-09	5.276E-10	1.928E-10	1.010E-10	6.144E-11	7.495E-11	3.567E-11	1.449E-11	7.663E-12	4.780E-12
ENE	2.652E-10	1.363E-10	6.009E-11	3.290E-11	2.016E-11	2.425E-11	1.469E-11	6.594E-12	3.008E-12	1.701E-12
E	4.501E-10	3.201E-10	1.543E-10	8.598E-11	5.282E-11	3.618E-11	1.709E-11	7.377E-12	3.811E-12	2.393E-12
ESE	6.080E-10	3.277E-10	1.468E-10	8.063E-11	4.942E-11	4.364E-11	2.369E-11	1.049E-11	5.390E-12	3.212E-12
SE	3.235E-09	1.463E-09	6.156E-10	3.338E-10	2.041E-10	8.352E-11	2.607E-11	1.121E-11	1.266E-11	1.009E-11
SSE	7.856E-09	3.126E-09	1.244E-09	7.041E-10	5.332E-10	2.991E-10	1.060E-10	4.229E-11	2.252E-11	1.391E-11

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q		X/Q		X/Q		D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	1.300E-07	1.298E-07	1.298E-07	1.298E-07	1.272E-07	6.153E-09	
A	SITE BOUNDARY	SSW	0.82	1327.	4.828E-08	4.821E-08	4.821E-08	4.821E-08	4.744E-08	2.020E-09	
A	SITE BOUNDARY	SW	0.98	1569.	8.074E-08	8.059E-08	8.059E-08	8.059E-08	7.977E-08	1.100E-09	
A	SITE BOUNDARY	WSW	0.93	1489.	4.344E-08	4.336E-08	4.336E-08	4.336E-08	4.282E-08	5.710E-10	
A	SITE BOUNDARY	W	0.91	1468.	6.554E-08	6.540E-08	6.540E-08	6.540E-08	6.440E-08	7.433E-10	
A	SITE BOUNDARY	WNW	0.94	1509.	1.752E-07	1.747E-07	1.747E-07	1.747E-07	1.720E-07	2.378E-09	
A	SITE BOUNDARY	NW	0.81	1307.	1.574E-07	1.572E-07	1.572E-07	1.572E-07	1.561E-07	2.466E-09	
A	SITE BOUNDARY	NNW	0.69	1106.	2.604E-08	2.601E-08	2.601E-08	2.601E-08	2.571E-08	1.187E-09	
A	SITE BOUNDARY	N	0.67	1086.	4.433E-08	4.430E-08	4.430E-08	4.430E-08	4.359E-08	3.160E-09	
A	SITE BOUNDARY	NNE	0.60	965.	6.934E-08	6.928E-08	6.928E-08	6.928E-08	6.828E-08	3.874E-09	
A	SITE BOUNDARY	NE	0.62	1005.	3.842E-08	3.837E-08	3.837E-08	3.837E-08	3.779E-08	1.942E-09	
A	SITE BOUNDARY	ENE	0.59	945.	2.786E-09	2.784E-09	2.784E-09	2.784E-09	2.754E-09	2.739E-10	
A	SITE BOUNDARY	E	0.53	845.	6.643E-10	6.638E-10	6.638E-10	6.638E-10	6.642E-10	2.609E-10	
A	SITE BOUNDARY	ESE	0.54	865.	1.617E-08	1.614E-08	1.614E-08	1.614E-08	1.599E-08	5.881E-10	
A	SITE BOUNDARY	SE	0.65	1046.	5.538E-08	5.535E-08	5.535E-08	5.535E-08	5.454E-08	3.605E-09	
A	SITE BOUNDARY	SSE	0.81	1307.	1.385E-07	1.384E-07	1.384E-07	1.384E-07	1.359E-07	7.970E-09	
A	NEAR. RESIDENCE	SW	1.30	2092.	9.494E-08	9.467E-08	9.467E-08	9.467E-08	9.357E-08	1.144E-09	
A	NEAR. RESIDENCE	WSW	1.30	2092.	7.543E-08	7.516E-08	7.516E-08	7.516E-08	7.457E-08	4.576E-10	
A	NEAR. RESIDENCE	W	1.00	1609.	6.536E-08	6.521E-08	6.521E-08	6.521E-08	6.416E-08	6.529E-10	
A	NEAR. RESIDENCE	WNW	1.60	2575.	1.538E-07	1.529E-07	1.529E-07	1.529E-07	1.499E-07	9.170E-10	
A	NEAR. RESIDENCE	NW	0.90	1448.	2.042E-07	2.039E-07	2.039E-07	2.039E-07	2.028E-07	4.540E-09	
A	NEAR. RESIDENCE	NNW	1.90	3058.	9.572E-08	9.528E-08	9.528E-08	9.528E-08	9.422E-08	5.170E-10	
A	NEAR. RESIDENCE	N	3.00	4828.	2.492E-08	2.480E-08	2.480E-08	2.480E-08	2.401E-08	3.237E-10	
A	NEAR. RESIDENCE	NNE	2.70	4345.	2.926E-08	2.911E-08	2.911E-08	2.911E-08	2.824E-08	2.809E-10	
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.011E-08	1.008E-08	1.008E-08	1.008E-08	9.964E-09	1.098E-10	
A	NEAR. RESIDENCE	E	1.80	2897.	1.785E-08	1.779E-08	1.779E-08	1.779E-08	1.758E-08	2.533E-10	
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.014E-08	2.000E-08	2.000E-08	2.000E-08	1.953E-08	1.558E-10	
A	NEAREST COW	NNW	3.50	5633.	7.650E-08	7.580E-08	7.580E-08	7.580E-08	7.482E-08	1.778E-10	
A	NEAREST GARDEN	SW	1.30	2092.	9.494E-08	9.467E-08	9.467E-08	9.467E-08	9.357E-08	1.144E-09	
A	NEAREST GARDEN	WSW	1.80	2897.	6.729E-08	6.692E-08	6.692E-08	6.692E-08	6.629E-08	2.258E-10	
A	NEAREST GARDEN	WNW	1.60	2575.	1.538E-07	1.529E-07	1.529E-07	1.529E-07	1.499E-07	9.170E-10	
A	NEAREST GARDEN	NW	2.80	4506.	1.174E-07	1.167E-07	1.167E-07	1.167E-07	1.128E-07	6.079E-10	
A	NEAREST GARDEN	NNW	1.90	3058.	9.572E-08	9.528E-08	9.528E-08	9.528E-08	9.422E-08	5.170E-10	
A	NEAREST GARDEN	N	3.00	4828.	2.492E-08	2.480E-08	2.480E-08	2.480E-08	2.401E-08	3.237E-10	
A	NEAREST GARDEN	ENE	1.70	2736.	1.011E-08	1.008E-08	1.008E-08	1.008E-08	9.964E-09	1.098E-10	
A	NEAREST GARDEN	E	1.80	2897.	1.785E-08	1.779E-08	1.779E-08	1.779E-08	1.758E-08	2.533E-10	
A	NEAREST GARDEN	ESE	2.40	3863.	2.014E-08	2.000E-08	2.000E-08	2.000E-08	1.953E-08	1.558E-10	

Atmospheric Diffusion Estimates

Elevated Releases

April-June 1995

ERP ELEVATED STACK RELEASES - APR-JUN 1995
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	3.590E-17	6.400E-11	1.291E-09	2.712E-09	3.629E-09	3.324E-09	2.815E-09	2.356E-09	1.984E-09	2.217E-09	2.368E-09		
SSW	3.374E-11	3.803E-09	7.950E-09	8.405E-09	7.837E-09	6.745E-09	5.720E-09	6.698E-09	7.711E-09	7.190E-09	6.801E-09		
SW	2.823E-09	1.639E-08	2.388E-08	2.792E-08	3.032E-08	1.931E-08	1.336E-08	9.834E-09	7.579E-09	6.050E-09	4.964E-09		
WSW	6.982E-11	6.260E-09	1.716E-08	2.201E-08	2.091E-08	1.209E-08	7.985E-09	5.763E-09	4.422E-09	3.546E-09	2.939E-09		
W	3.579E-08	4.384E-08	6.369E-08	5.945E-08	4.729E-08	2.987E-08	2.090E-08	1.562E-08	1.224E-08	9.922E-09	8.260E-09		
WNW	7.176E-09	2.323E-08	6.024E-08	7.291E-08	5.816E-08	3.234E-08	2.057E-08	1.452E-08	1.083E-08	8.327E-09	6.629E-09		
NW	2.276E-08	3.394E-08	6.206E-08	8.738E-08	1.124E-07	6.331E-08	4.076E-08	2.898E-08	2.179E-08	1.693E-08	1.361E-08		
NNW	6.753E-09	3.307E-08	4.401E-08	4.158E-08	3.751E-08	2.967E-08	2.304E-08	1.776E-08	1.392E-08	1.070E-08	8.526E-09		
N	3.904E-09	2.352E-08	2.623E-08	1.751E-08	9.154E-09	6.074E-09	4.558E-09	3.587E-09	2.939E-09	2.475E-09	2.127E-09		
NNE	4.577E-09	6.888E-09	9.717E-09	8.486E-09	6.534E-09	5.155E-09	4.168E-09	3.451E-09	2.918E-09	2.513E-09	2.198E-09		
NE	1.118E-09	2.999E-09	2.495E-09	2.072E-09	1.808E-09	1.543E-09	1.295E-09	1.092E-09	9.294E-10	8.010E-10	6.986E-10		
ENE	4.687E-17	3.257E-11	6.499E-10	1.523E-09	2.322E-09	2.243E-09	1.943E-09	1.641E-09	1.385E-09	1.179E-09	1.014E-09		
E	7.915E-17	6.228E-11	9.353E-10	1.720E-09	1.998E-09	1.685E-09	1.349E-09	1.082E-09	8.817E-10	7.311E-10	6.164E-10		
ESE	9.766E-11	6.021E-09	1.064E-08	9.952E-09	7.580E-09	5.586E-09	4.197E-09	3.248E-09	2.585E-09	2.108E-09	1.756E-09		
SE	7.504E-17	6.743E-11	1.048E-09	2.049E-09	2.736E-09	2.580E-09	2.246E-09	1.923E-09	1.650E-09	1.428E-09	1.247E-09		
SSE	5.448E-17	6.253E-11	1.162E-09	2.532E-09	3.995E-09	4.215E-09	3.959E-09	3.577E-09	3.198E-09	5.348E-09	6.450E-09		

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	2.137E-09	1.758E-09	1.175E-09	6.991E-10	5.246E-10	4.162E-10	3.280E-10	2.685E-10	2.302E-10	2.004E-10	1.749E-10		
SSW	6.872E-09	7.879E-09	5.285E-09	3.165E-09	2.403E-09	1.860E-09	1.469E-09	1.204E-09	1.015E-09	8.735E-10	7.638E-10		
SW	4.355E-09	2.655E-09	1.685E-09	9.360E-10	6.295E-10	4.617E-10	3.587E-10	2.877E-10	2.378E-10	2.011E-10	1.732E-10		
WSW	2.678E-09	2.352E-09	1.998E-09	1.481E-09	1.026E-09	7.738E-10	6.167E-10	5.079E-10	4.297E-10	3.710E-10	3.255E-10		
W	7.027E-09	3.943E-09	2.873E-09	1.876E-09	1.369E-09	1.018E-09	7.955E-10	6.467E-10	5.409E-10	4.623E-10	4.019E-10		
WNW	5.439E-09	2.673E-09	1.664E-09	8.982E-10	5.837E-10	4.183E-10	3.189E-10	2.537E-10	2.081E-10	1.749E-10	1.497E-10		
NW	1.129E-08	5.799E-09	3.727E-09	2.099E-09	1.395E-09	1.018E-09	7.901E-10	6.370E-10	5.287E-10	4.488E-10	3.878E-10		
NNW	7.030E-09	3.529E-09	2.212E-09	1.214E-09	8.024E-10	5.831E-10	4.502E-10	3.621E-10	3.003E-10	2.544E-10	2.194E-10		
N	1.863E-09	1.151E-09	9.177E-10	6.507E-10	4.812E-10	3.673E-10	2.876E-10	2.339E-10	1.955E-10	1.670E-10	1.451E-10		
NNE	2.467E-09	3.135E-09	2.016E-09	1.146E-09	7.734E-10	5.711E-10	4.464E-10	3.627E-10	3.033E-10	2.591E-10	2.251E-10		
NE	7.449E-10	6.589E-10	4.186E-10	2.332E-10	1.544E-10	1.124E-10	8.698E-11	7.004E-11	5.805E-11	4.917E-11	4.240E-11		
ENE	9.795E-10	6.800E-10	4.239E-10	2.284E-10	1.472E-10	1.047E-10	7.944E-11	6.287E-11	5.124E-11	4.278E-11	3.641E-11		
E	5.782E-10	3.687E-10	2.283E-10	1.222E-10	7.852E-11	5.573E-11	4.213E-11	3.326E-11	2.714E-11	2.267E-11	1.929E-11		
ESE	1.602E-09	9.819E-10	6.054E-10	3.242E-10	2.108E-10	1.511E-10	1.153E-10	9.176E-11	7.533E-11	6.334E-11	5.425E-11		
SE	1.101E-09	6.808E-10	5.182E-10	3.465E-10	2.418E-10	1.816E-10	1.431E-10	1.167E-10	9.676E-11	8.204E-11	7.080E-11		
SSE	5.454E-09	2.935E-09	1.875E-09	1.053E-09	7.012E-10	5.123E-10	3.968E-10	3.199E-10	2.656E-10	2.255E-10	1.948E-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	1.650E-09	3.290E-09	2.767E-09	2.179E-09	2.238E-09	1.583E-09	7.272E-10	4.098E-10	2.709E-10	1.998E-10
SSW	7.231E-09	7.478E-09	6.385E-09	7.223E-09	6.943E-09	6.502E-09	3.297E-09	1.848E-09	1.208E-09	8.749E-10
SW	2.401E-08	2.489E-08	1.354E-08	7.641E-09	5.060E-09	2.602E-09	9.662E-10	4.652E-10	2.889E-10	2.016E-10
WSW	1.689E-08	1.723E-08	8.190E-09	4.472E-09	3.022E-09	2.267E-09	1.393E-09	7.782E-10	5.092E-10	3.715E-10
W	5.739E-08	4.225E-08	2.118E-08	1.232E-08	8.296E-09	4.153E-09	1.872E-09	1.022E-09	6.489E-10	4.632E-10
WNW	5.765E-08	4.996E-08	2.129E-08	1.093E-08	6.691E-09	2.839E-09	9.285E-10	4.227E-10	2.550E-10	1.754E-10
NW	6.706E-08	8.501E-08	4.206E-08	2.199E-08	1.374E-08	6.098E-09	2.148E-09	1.027E-09	6.395E-10	4.499E-10
NNW	4.050E-08	3.493E-08	2.270E-08	1.379E-08	8.617E-09	3.722E-09	1.253E-09	5.884E-10	3.637E-10	2.550E-10
N	2.175E-08	9.642E-09	4.574E-09	2.948E-09	2.133E-09	1.206E-09	6.347E-10	3.658E-10	2.346E-10	1.673E-10
NNE	8.541E-09	6.355E-09	4.144E-09	2.916E-09	2.391E-09	2.490E-09	1.174E-09	5.752E-10	3.640E-10	2.596E-10
NE	2.419E-09	1.749E-09	1.280E-09	9.268E-10	7.461E-10	5.712E-10	2.394E-10	1.134E-10	7.031E-11	4.930E-11
ENE	9.007E-10	2.109E-09	1.902E-09	1.380E-09	1.050E-09	6.327E-10	2.358E-10	1.059E-10	6.317E-11	4.293E-11
E	1.090E-09	1.797E-09	1.332E-09	8.816E-10	6.362E-10	3.529E-10	1.264E-10	5.637E-11	3.346E-11	2.274E-11
ESE	9.307E-09	7.221E-09	4.188E-09	2.593E-09	1.803E-09	9.523E-10	3.363E-10	1.527E-10	9.222E-11	6.353E-11
SE	1.275E-09	2.514E-09	2.206E-09	1.643E-09	1.247E-09	7.019E-10	3.381E-10	1.822E-10	1.166E-10	8.224E-11
SSE	1.527E-09	3.768E-09	3.874E-09	4.125E-09	5.755E-09	3.024E-09	1.079E-09	5.165E-10	3.212E-10	2.260E-10

ERP ELEVATED STACK RELEASES - APR-JUN 1995
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	3.589E-17	6.394E-11	1.289E-09	2.706E-09	3.617E-09	3.310E-09	2.800E-09	2.340E-09	1.969E-09	2.198E-09	2.344E-09			
SSW	3.372E-11	3.799E-09	7.937E-09	8.389E-09	7.815E-09	6.720E-09	5.694E-09	6.659E-09	7.653E-09	7.125E-09	6.729E-09			
SW	2.822E-09	1.638E-08	2.385E-08	2.786E-08	3.019E-08	1.919E-08	1.325E-08	9.739E-09	7.493E-09	5.970E-09	4.891E-09			
WSW	6.979E-11	6.254E-09	1.714E-08	2.197E-08	2.085E-08	1.204E-08	7.941E-09	5.723E-09	4.385E-09	3.510E-09	2.904E-09			
W	3.578E-08	4.381E-08	6.361E-08	5.934E-08	4.713E-08	2.971E-08	2.075E-08	1.548E-08	1.210E-08	9.793E-09	8.136E-09			
WNW	7.175E-09	2.322E-08	6.019E-08	7.282E-08	5.805E-08	3.225E-08	2.950E-08	1.447E-08	1.078E-08	8.285E-09	6.591E-09			
NW	2.275E-08	3.392E-08	6.200E-08	8.727E-08	1.122E-07	6.317E-08	4.065E-08	2.888E-08	2.171E-08	1.686E-08	1.354E-08			
NNW	6.751E-09	3.365E-08	4.397E-08	4.153E-08	3.744E-08	2.959E-08	2.297E-08	1.769E-08	1.386E-08	1.065E-08	8.478E-09			
N	3.903E-09	2.351E-08	2.621E-08	1.749E-08	9.138E-09	6.056E-09	4.538E-09	3.566E-09	2.917E-09	2.453E-09	2.105E-09			
NNE	4.576E-09	6.885E-09	9.710E-09	8.478E-09	6.524E-09	5.144E-09	4.157E-09	3.440E-09	2.907E-09	2.502E-09	2.188E-09			
NE	1.117E-09	2.998E-09	2.494E-09	2.070E-09	1.805E-09	1.538E-09	1.291E-09	1.086E-09	9.243E-10	7.958E-10	6.936E-10			
ENE	4.686E-17	3.255E-11	6.486E-10	1.518E-09	2.308E-09	2.225E-09	1.922E-09	1.619E-09	1.364E-09	1.158E-09	9.934E-10			
E	7.914E-17	6.225E-11	9.346E-10	1.719E-09	1.995E-09	1.622E-09	1.345E-09	1.079E-09	8.785E-10	7.280E-10	6.135E-10			
ESE	9.764E-11	6.018E-09	1.063E-08	9.942E-09	7.568E-09	5.575E-09	4.187E-09	3.238E-09	2.576E-09	2.100E-09	1.748E-09			
SE	7.502E-17	6.739E-11	1.047E-09	2.047E-09	2.732E-09	2.575E-09	2.241E-09	1.917E-09	1.645E-09	1.423E-09	1.243E-09			
SSE	5.447E-17	6.248E-11	1.161E-09	2.528E-09	3.983E-09	4.199E-09	3.939E-09	3.556E-09	3.175E-09	5.305E-09	6.391E-09			

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	2.113E-09	1.729E-09	1.148E-09	6.757E-10	5.012E-10	3.930E-10	3.062E-10	2.478E-10	2.101E-10	1.808E-10	1.559E-10			
SSW	6.787E-09	7.718E-09	5.140E-09	3.036E-09	2.273E-09	1.735E-09	1.351E-09	1.093E-09	9.087E-10	7.711E-10	6.652E-10			
SW	4.284E-09	2.591E-09	1.631E-09	8.918E-10	5.908E-10	4.268E-10	3.267E-10	2.582E-10	2.103E-10	1.754E-10	1.489E-10			
WSW	2.639E-09	2.281E-09	1.910E-09	1.377E-09	9.306E-10	6.845E-10	5.318E-10	4.270E-10	3.522E-10	2.965E-10	2.536E-10			
W	6.908E-09	3.837E-09	2.764E-09	1.764E-09	1.257E-09	9.143E-10	6.993E-10	5.562E-10	4.551E-10	3.805E-10	3.237E-10			
WNW	5.404E-09	2.648E-09	1.642E-09	8.812E-10	5.691E-10	4.053E-10	3.071E-10	2.427E-10	1.979E-10	1.653E-10	1.406E-10			
NW	1.123E-08	5.751E-09	3.685E-09	2.064E-09	1.364E-09	9.901E-10	7.642E-10	6.127E-10	5.057E-10	4.269E-10	3.669E-10			
NNW	6.987E-09	3.497E-09	2.185E-09	1.192E-09	7.830E-10	5.656E-10	4.341E-10	3.470E-10	2.861E-10	2.410E-10	2.066E-10			
N	1.840E-09	1.127E-09	8.909E-10	6.208E-10	4.516E-10	3.392E-10	2.615E-10	2.095E-10	1.725E-10	1.452E-10	1.243E-10			
NNE	2.453E-09	3.110E-09	1.995E-09	1.128E-09	7.569E-10	5.560E-10	4.322E-10	3.494E-10	2.905E-10	2.469E-10	2.134E-10			
NE	7.384E-10	6.496E-10	4.107E-10	2.266E-10	1.486E-10	1.071E-10	8.209E-11	6.545E-11	5.373E-11	4.507E-11	3.848E-11			
ENE	9.574E-10	6.567E-10	4.047E-10	2.131E-10	1.342E-10	9.324E-11	6.916E-11	5.350E-11	4.262E-11	3.480E-11	2.896E-11			
E	5.752E-10	3.658E-10	2.259E-10	1.203E-10	7.687E-11	5.428E-11	4.081E-11	3.205E-11	2.601E-11	2.162E-11	1.830E-11			
ESE	1.594E-09	9.746E-10	5.994E-10	3.193E-10	2.066E-10	1.474E-10	1.119E-10	8.861E-11	7.239E-11	6.056E-11	5.161E-11			
SE	1.096E-09	6.765E-10	5.140E-10	3.425E-10	2.381E-10	1.781E-10	1.399E-10	1.136E-10	9.388E-11	7.931E-11	6.819E-11			
SSE	5.399E-09	2.890E-09	1.837E-09	1.021E-09	6.730E-10	4.867E-10	3.731E-10	2.978E-10	2.447E-10	2.056E-10	1.758E-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	1.647E-09	3.278E-09	2.752E-09	2.162E-09	2.215E-09	1.556E-09	7.032E-10	3.872E-10	2.501E-10	1.803E-10
SSW	7.218E-09	7.456E-09	6.354E-09	7.168E-09	6.868E-09	6.365E-09	3.164E-09	1.725E-09	1.097E-09	7.726E-10
SW	2.397E-08	2.478E-08	1.343E-08	7.555E-09	4.986E-09	2.541E-09	9.223E-10	4.305E-10	2.596E-10	1.759E-10
WSW	1.687E-08	1.718E-08	8.146E-09	4.434E-09	2.986E-09	2.195E-09	1.297E-09	6.890E-10	4.284E-10	2.971E-10
W	5.731E-08	4.210E-08	2.103E-08	1.219E-08	8.172E-09	4.043E-09	1.761E-09	9.198E-10	5.585E-10	3.816E-10
WNW	5.759E-08	4.987E-08	2.122E-08	1.088E-08	6.653E-09	2.813E-09	9.116E-10	4.097E-10	2.440E-10	1.658E-10
NW	6.699E-08	8.486E-08	4.195E-08	2.191E-08	1.367E-08	6.050E-09	2.113E-09	9.995E-10	6.152E-10	4.280E-10
NNW	4.046E-08	3.486E-08	2.262E-08	1.373E-08	8.569E-09	3.689E-09	1.231E-09	5.710E-10	3.487E-10	2.416E-10
N	2.174E-08	9.625E-09	4.554E-09	2.926E-09	2.110E-09	1.181E-09	6.056E-10	3.381E-10	2.103E-10	1.456E-10
NNE	8.534E-09	6.345E-09	4.133E-09	2.905E-09	2.379E-09	2.468E-09	1.156E-09	5.691E-10	3.506E-10	2.474E-10
NE	2.417E-09	1.745E-09	1.275E-09	9.217E-10	7.405E-10	5.632E-10	2.328E-10	1.082E-10	6.574E-11	4.519E-11
ENE	8.979E-10	2.095E-09	1.882E-09	1.358E-09	1.029E-09	6.115E-10	2.206E-10	9.45E-11	5.383E-11	3.495E-11
E	1.089E-09	1.794E-09	1.328E-09	8.784E-10	6.332E-10	3.501E-10	1.245E-10	5.49E-11	3.226E-11	2.169E-11
ESE	9.299E-09	7.210E-09	4.178E-09	2.584E-09	1.795E-09	9.454E-10	3.315E-10	1.490E-10	8.908E-11	6.075E-11
SE	1.274E-09	2.510E-09	2.201E-09	1.638E-09	1.242E-09	6.975E-10	3.342E-10	1.788E-10	1.136E-10	7.951E-11
SSE	1.524E-09	3.756E-09	3.855E-09	4.095E-09	5.702E-09	2.980E-09	1.048E-09	4.910E-10	2.991E-10	2.062E-10

ERP ELEVATED STACK RELEASES - APR-JUN 1995
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
S	3.589E-17	6.399E-11	1.291E-09	2.711E-09	3.593E-09	3.261E-09	2.738E-09	2.273E-09	1.900E-09	2.116E-09	2.256E-09
SSW	3.373E-11	3.769E-09	7.803E-09	8.248E-09	7.673E-09	6.579E-09	5.557E-09	6.514E-09	7.514E-09	7.000E-09	6.619E-09
SW	2.823E-09	1.624E-08	2.344E-08	2.751E-08	2.972E-08	1.871E-08	1.281E-08	9.340E-09	7.135E-09	5.649E-09	4.600E-09
WSW	6.981E-11	6.203E-09	1.686E-08	2.167E-08	2.039E-08	1.162E-08	7.591E-09	5.428E-09	4.133E-09	3.293E-09	2.715E-09
W	3.579E-08	4.302E-08	6.260E-08	5.814E-08	4.588E-08	2.876E-08	2.001E-08	1.489E-08	1.162E-08	9.388E-09	7.792E-09
WNW	7.176E-09	2.304E-08	5.956E-08	7.172E-08	5.635E-08	3.080E-08	1.930E-08	1.346E-08	9.924E-09	7.548E-09	5.949E-09
NW	2.275E-08	3.364E-08	6.101E-08	8.609E-08	1.105E-07	6.173E-08	3.948E-08	2.791E-08	2.090E-08	1.615E-08	1.290E-08
NNW	6.753E-09	3.277E-08	4.313E-08	4.075E-08	3.669E-08	2.882E-08	2.225E-08	1.704E-08	1.327E-08	1.013E-08	8.009E-09
N	3.904E-09	2.330E-08	2.560E-08	1.691E-08	8.742E-09	5.782E-09	4.338E-09	3.414E-09	2.796E-09	2.355E-09	2.023E-09
NNE	4.577E-09	6.826E-09	9.518E-09	8.287E-09	6.361E-09	5.002E-09	4.029E-09	3.325E-09	2.803E-09	2.408E-09	2.101E-09
NE	1.117E-09	2.972E-09	2.449E-09	2.037E-09	1.777E-09	1.509E-09	1.261E-09	1.057E-09	8.963E-10	7.693E-10	6.687E-10
ENE	4.687E-17	3.256E-11	6.495E-10	1.521E-09	2.296E-09	2.195E-09	1.881E-09	1.571E-09	1.313E-09	1.107E-09	9.437E-10
E	7.915E-17	6.227E-11	9.351E-10	1.720E-09	1.979E-09	1.652E-09	1.308E-09	1.039E-09	8.389E-10	6.894E-10	5.763E-10
ESE	9.766E-11	5.967E-09	1.043E-08	9.743E-09	7.385E-09	5.403E-09	4.026E-09	3.089E-09	2.438E-09	1.972E-09	1.629E-09
SE	7.503E-17	6.742E-11	1.048E-09	2.048E-09	2.714E-09	2.542E-09	2.201E-09	1.875E-09	1.602E-09	1.381E-09	1.202E-09
SSE	5.448E-17	6.252E-11	1.162E-09	2.531E-09	3.964E-09	4.162E-09	3.894E-09	3.507E-09	3.127E-09	5.249E-09	6.333E-09

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.030E-09	1.654E-09	1.070E-09	5.963E-10	4.154E-10	3.085E-10	2.294E-10	1.781E-10	1.467E-10	1.236E-10	1.047E-10
SSW	6.695E-09	7.601E-09	4.919E-09	2.731E-09	1.905E-09	1.411E-09	1.073E-09	8.501E-10	6.942E-10	5.798E-10	4.930E-10
SW	4.013E-09	2.384E-09	1.467E-09	7.692E-10	4.894E-10	3.417E-10	2.555E-10	1.977E-10	1.580E-10	1.295E-10	1.083E-10
WSW	2.474E-09	2.177E-09	1.805E-09	1.273E-09	8.392E-10	6.063E-10	4.648E-10	3.694E-10	3.023E-10	2.530E-10	2.155E-10
W	6.610E-09	3.663E-09	2.655E-09	1.637E-09	1.115E-09	7.943E-10	5.975E-10	4.690E-10	3.796E-10	3.147E-10	2.657E-10
WNW	4.835E-09	2.284E-09	1.377E-09	7.054E-10	4.383E-10	3.016E-10	2.215E-10	1.701E-10	1.352E-10	1.103E-10	9.183E-11
NW	1.064E-08	5.286E-09	3.286E-09	1.740E-09	1.099E-09	7.685E-10	5.749E-10	4.486E-10	3.614E-10	2.984E-10	2.512E-10
NNW	6.557E-09	3.180E-09	1.929E-09	9.958E-10	6.177E-10	4.254E-10	3.135E-10	2.428E-10	1.950E-10	1.603E-10	1.344E-10
N	1.772E-09	1.090E-09	8.696E-10	6.128E-10	4.416E-10	3.176E-10	2.394E-10	1.885E-10	1.529E-10	1.269E-10	1.074E-10
NNE	2.369E-09	3.015E-09	1.873E-09	1.008E-09	6.501E-10	4.622E-10	3.493E-10	2.755E-10	2.240E-10	1.865E-10	1.582E-10
NE	7.129E-10	6.233E-10	3.816E-10	1.979E-10	1.214E-10	8.279E-11	6.090E-11	4.735E-11	3.800E-11	3.123E-11	2.618E-11
ENE	9.038E-10	6.022E-10	3.632E-10	1.855E-10	1.145E-10	7.843E-11	5.758E-11	4.416E-11	3.495E-11	2.839E-11	2.354E-11
E	5.362E-10	3.288E-10	1.975E-10	1.007E-10	6.228E-11	4.281E-11	3.146E-11	2.422E-11	1.931E-11	1.577E-11	1.309E-11
ESE	1.475E-09	8.723E-10	5.219E-10	2.662E-10	1.663E-10	1.152E-10	8.523E-11	6.594E-11	5.272E-11	4.322E-11	3.615E-11
SE	1.057E-09	6.462E-10	4.888E-10	3.238E-10	2.240E-10	1.670E-10	1.309E-10	1.049E-10	8.437E-11	6.955E-11	5.846E-11
SSE	5.325E-09	2.771E-09	1.708E-09	8.923E-10	5.490E-10	3.754E-10	2.743E-10	2.100E-10	1.662E-10	1.350E-10	1.119E-10

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

DIRECTION FROM SITE	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.649E-09	3.249E-09	2.691E-09	2.089E-09	2.131E-09	1.478E-09	6.212E-10	3.054E-10	1.808E-10
SSW	7.104E-09	7.314E-09	6.212E-09	7.032E-09	6.760E-09	6.207E-09	2.850E-09	1.408E-09	8.544E-10
SW	2.365E-08	2.433E-08	1.299E-08	7.199E-09	4.694E-09	2.338E-09	7.998E-10	3.466E-10	1.991E-10
WSW	1.663E-08	1.678E-08	7.801E-09	4.183E-09	2.797E-09	2.078E-09	1.198E-09	6.118E-10	3.711E-10
W	5.627E-08	4.100E-08	2.030E-08	1.170E-08	7.827E-09	3.870E-09	1.631E-09	8.012E-10	4.717E-10
WNW	5.685E-08	4.841E-08	2.003E-08	1.003E-08	6.010E-09	2.448E-09	7.359E-10	3.060E-10	1.715E-10
NW	6.607E-08	8.339E-08	4.079E-08	2.109E-08	1.303E-08	5.587E-09	1.799E-09	7.793E-10	4.515E-10
NNW	3.977E-08	3.410E-08	2.192E-08	1.315E-08	8.099E-09	3.374E-09	1.035E-09	4.319E-10	2.448E-10
N	2.123E-08	9.242E-09	4.353E-09	2.804E-09	2.028E-09	1.144E-09	5.938E-10	3.194E-10	1.895E-10
NNE	8.373E-09	6.185E-09	4.007E-09	2.802E-09	2.291E-09	2.364E-09	1.041E-09	4.672E-10	2.770E-10
NE	2.382E-09	1.716E-09	1.246E-09	8.939E-10	7.149E-10	5.358E-10	2.047E-10	8.433E-11	4.766E-11
ENE	8.999E-10	2.079E-09	1.841E-09	1.309E-09	9.773E-10	5.630E-10	1.934E-10	7.971E-11	4.448E-11
E	1.090E-09	1.776E-09	1.292E-09	8.393E-10	5.949E-10	3.165E-10	1.051E-10	4.346E-11	2.442E-11
ESE	9.134E-09	7.028E-09	4.018E-09	2.446E-09	1.674E-09	8.505E-10	2.786E-10	1.169E-10	6.641E-11
SE	1.275E-09	2.490E-09	2.161E-09	1.595E-09	1.201E-09	6.676E-10	3.161E-10	1.678E-10	1.045E-10
SSE	1.526E-09	3.734E-09	3.811E-09	4.044E-09	5.639E-09	7.866E-09	9.210E-10	3.813E-10	2.117E-10

ERP ELEVATED STACK RELEASES - APR-JUN 1995

CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION FROM SITE	RELATIVE DEPOSITION PER UNIT AREA (IN GRAMS PER SQUARE METRE) AT FIXED POINTS BY DOWNWIND SECTORS										
	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	5.581E-12	3.348E-11	7.130E-11	7.385E-11	4.613E-11	3.093E-11	2.185E-11	1.605E-11	1.215E-11	9.991E-12	9.125E-12
SSW	2.804E-10	2.523E-10	2.503E-10	1.935E-10	1.029E-10	6.541E-11	4.503E-11	3.265E-11	3.049E-11	2.304E-11	1.803E-11
SW	1.098E-09	8.670E-10	6.983E-10	4.601E-10	3.245E-10	1.763E-10	1.097E-10	7.477E-11	5.421E-11	4.109E-11	3.222E-11
WSW	5.482E-10	4.293E-10	3.403E-10	2.820E-10	1.620E-10	8.655E-11	5.318E-11	3.595E-11	2.592E-11	1.959E-11	1.534E-11
W	1.639E-09	2.454E-09	1.636E-09	9.134E-10	3.887E-10	2.068E-10	1.269E-10	8.569E-11	6.177E-11	4.668E-11	3.656E-11
WNW	1.656E-09	1.355E-09	2.376E-09	1.499E-09	8.559E-10	4.275E-10	2.513E-10	1.638E-10	1.159E-10	8.516E-11	6.530E-11
NW	3.550E-09	2.711E-09	2.042E-09	1.960E-09	1.061E-09	5.282E-10	3.129E-10	2.078E-10	1.501E-10	1.157E-10	9.399E-11
NNW	3.003E-09	2.290E-09	1.720E-09	1.058E-09	6.986E-10	3.713E-10	2.278E-10	1.725E-10	1.224E-10	9.215E-11	7.271E-11
N	2.710E-09	1.962E-09	1.309E-09	6.979E-10	2.568E-10	1.361E-10	8.436E-11	5.768E-11	4.209E-11	3.216E-11	2.545E-11
NNE	1.092E-09	8.335E-10	6.278E-10	3.863E-10	1.696E-10	9.928E-11	6.542E-11	4.634E-11	3.446E-11	2.654E-11	2.101E-11
NE	2.734E-10	2.105E-10	1.612E-10	1.012E-10	4.529E-11	2.675E-11	1.772E-11	1.259E-11	9.374E-12	7.226E-12	5.720E-12
ENE	4.186E-12	2.511E-11	5.347E-11	5.539E-11	3.459E-11	2.320E-11	1.638E-11	1.204E-11	9.116E-12	7.075E-12	5.603E-12
E	5.581E-12	3.348E-11	7.130E-11	7.385E-11	4.613E-11	3.093E-11	2.185E-11	1.605E-11	1.215E-11	9.991E-12	9.125E-12
ESE	8.258E-10	6.649E-10	5.549E-10	3.774E-10	1.820E-10	1.112E-10	7.501E-11	5.381E-11	4.028E-11	3.111E-11	2.463E-11
SE	5.581E-12	3.348E-11	7.130E-11	7.385E-11	4.613E-11	3.093E-11	2.185E-11	1.605E-11	1.215E-11	9.991E-12	9.125E-12
SSE	5.581E-12	3.348E-11	7.130E-11	7.385E-11	4.613E-11	3.093E-11	2.185E-11	1.605E-11	1.215E-11	1.166E-11	1.520E-11

DIRECTION FROM SITE	DISTANCES IN MILES										
	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	7.335E-12	4.992E-12	3.369E-12	1.928E-12	1.210E-12	8.618E-13	6.096E-13	4.510E-13	3.834E-13	3.063E-13	2.500E-13
SSW	1.450E-11	1.676E-11	1.260E-11	7.883E-12	4.415E-12	3.016E-12	2.161E-12	1.623E-12	1.262E-12	1.008E-12	8.226E-13
SW	2.660E-11	1.291E-11	7.846E-12	4.108E-12	2.604E-12	2.241E-12	1.598E-12	1.265E-12	9.836E-13	7.857E-13	6.413E-13
WSW	1.235E-11	6.448E-12	4.043E-12	2.803E-12	1.697E-12	1.138E-12	8.151E-13	6.120E-13	4.759E-13	3.801E-13	3.103E-13
W	2.944E-11	1.336E-11	8.709E-12	5.679E-12	4.283E-12	2.872E-12	2.058E-12	1.545E-12	1.201E-12	9.597E-13	7.833E-13
WNW	5.220E-11	2.345E-11	1.403E-11	7.199E-12	5.777E-12	4.067E-12	3.036E-12	2.280E-12	1.773E-12	1.416E-12	1.156E-12
NW	7.985E-11	4.559E-11	3.174E-11	2.004E-11	1.220E-11	8.205E-12	5.867E-12	4.405E-12	3.425E-12	2.736E-12	2.233E-12
NNW	5.987E-11	3.049E-11	1.990E-11	1.121E-11	7.207E-12	4.970E-12	3.913E-12	2.880E-12	2.300E-12	1.838E-12	1.500E-12
N	2.068E-11	1.003E-11	6.279E-12	3.516E-12	4.279E-12	2.813E-12	1.958E-12	1.470E-12	1.143E-12	9.130E-13	7.452E-13
NNE	1.700E-11	2.481E-11	1.503E-11	7.595E-12	4.597E-12	3.082E-12	2.208E-12	1.658E-12	1.289E-12	1.030E-12	8.407E-13
NE	4.626E-12	4.203E-12	2.763E-12	1.526E-12	9.474E-13	6.310E-13	4.041E-13	3.034E-13	2.359E-13	1.885E-13	1.538E-13
ENE	4.513E-12	2.473E-12	1.434E-12	6.996E-13	4.205E-13	2.833E-13	2.052E-13	2.199E-13	1.716E-13	1.376E-13	1.128E-13
E	6.017E-12	3.295E-12	1.910E-12	9.322E-13	5.603E-13	3.775E-13	2.734E-13	2.081E-13	1.643E-13	2.165E-13	1.767E-13
ESE	1.989E-11	1.063E-11	6.267E-12	3.167E-12	1.977E-12	1.375E-12	1.023E-12	7.977E-13	6.386E-13	5.268E-13	4.422E-13
SE	6.017E-12	2.849E-12	1.736E-12	9.131E-13	5.592E-13	3.928E-13	3.062E-13	1.335E-12	1.010E-12	7.875E-13	6.293E-13
SSE	1.393E-11	1.173E-11	8.116E-12	4.717E-12	2.969E-12	1.971E-12	1.389E-12	1.023E-12	7.824E-13	6.161E-13	4.966E-13

***** RELATIVE DEPOSITION PER UNIT AREA (MMH-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	6.403E-11	4.553E-11	2.195E-11	1.244E-11	8.718E-12	4.791E-12	1.929E-12	8.538E-13	4.706E-13	3.083E-13
SSW	2.255E-10	1.064E-10	4.551E-11	2.827E-11	1.821E-11	1.441E-11	7.389E-12	3.047E-12	1.639E-12	1.014E-12
SW	6.299E-10	2.888E-10	1.135E-10	5.508E-11	3.276E-11	1.370E-11	4.270E-12	2.080E-12	1.253E-12	7.909E-13
WSW	3.341E-10	1.551E-10	5.519E-11	2.637E-11	1.549E-11	6.690E-12	2.587E-12	1.158E-12	6.182E-13	3.826E-13
W	1.497E-09	4.245E-10	1.317E-10	6.286E-11	3.692E-11	1.487E-11	5.732E-12	2.923E-12	1.561E-12	9.660E-13
WNW	1.759E-09	8.084E-10	2.633E-10	1.179E-10	6.633E-11	2.565E-11	8.084E-12	4.111E-12	2.303E-12	1.425E-12
NW	2.154E-09	1.024E-09	3.283E-10	1.535E-10	9.520E-11	4.705E-11	1.916E-11	8.335E-12	4.449E-12	2.754E-12
NNW	1.552E-09	6.329E-10	2.440E-10	1.252E-10	7.371E-11	3.231E-11	1.136E-11	5.144E-12	2.954E-12	1.850E-12
N	1.183E-09	3.012E-10	8.748E-11	4.276E-11	2.567E-11	1.073E-11	4.469E-12	2.862E-12	1.485E-12	9.190E-13
NNE	5.659E-10	1.865E-10	6.682E-11	3.484E-11	2.116E-11	1.872E-11	7.914E-12	3.136E-12	1.675E-12	1.037E-12
NE	1.455E-10	4.947E-11	1.808E-11	9.474E-12	5.761E-12	3.657E-12	1.544E-12	6.246E-13	3.065E-13	1.897E-13
ENE	4.802E-11	3.415E-11	1.646E-11	9.173E-12	5.636E-12	2.464E-12	7.387E-13	2.886E-13	1.973E-13	1.385E-13
E	6.403E-11	4.553E-11	2.195E-11	1.223E-11	7.514E-12	3.285E-12	9.843E-13	3.846E-13	2.101E-13	1.863E-13
ESE	5.005E-10	1.939E-10	7.618E-11	4.065E-11	2.480E-11	1.075E-11	3.327E-12	1.395E-12	8.015E-13	5.286E-13
SE	6.403E-11	4.553E-11	2.195E-11	1.223E-11	7.514E-12	3.058E-12	9.387E-13	4.025E-13	1.701E-13	7.947E-13
SSE	6.403E-11	4.553E-11	2.195E-11	1.308E-11	1.368E-11	1.061E-11	4.696E-12	2.005E-12	1.036E-12	6.211E-13

ERP ELEVATED STACK RELEASES - APR-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q		X/Q		X/Q		D/Q				
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)							
									NO DECAY			2.260 DAY DECAY		8.000 DAY DECAY	
									UNDEPLETED	DEPLETED		UNDEPLETED	DEPLETED	UNDEPLETED	DEPLETED
A	SITE BOUNDARY	S	0.80	1287.	1.620E-09	1.617E-09	1.619E-09	1.619E-09	7.471E-11						
A	SITE BOUNDARY	SSW	0.82	1327.	8.216E-09	8.202E-09	8.059E-09	8.059E-09	2.349E-10						
A	SITE BOUNDARY	SW	0.98	1569.	2.749E-08	2.744E-08	2.708E-08	2.708E-08	4.818E-10						
A	SITE BOUNDARY	WSW	0.93	1489.	2.094E-08	2.090E-08	2.060E-08	2.060E-08	2.556E-10						
A	SITE BOUNDARY	W	0.91	1468.	6.165E-08	6.156E-08	6.042E-08	6.042E-08	1.103E-09						
A	SITE BOUNDARY	WNW	0.94	1509.	7.176E-08	7.168E-08	7.070E-08	7.070E-08	1.694E-09						
A	SITE BOUNDARY	NW	0.81	1307.	6.759E-08	6.753E-08	6.650E-08	6.650E-08	1.805E-09						
A	SITE BOUNDARY	NNW	0.69	1106.	4.174E-08	4.170E-08	4.097E-08	4.097E-08	1.832E-09						
A	SITE BOUNDARY	N	0.67	1086.	2.667E-08	2.665E-08	2.613E-08	2.613E-08	1.474E-09						
A	SITE BOUNDARY	NNE	0.60	965.	8.344E-09	8.340E-09	8.221E-09	8.221E-09	7.364E-10						
A	SITE BOUNDARY	NE	0.62	1005.	2.654E-09	2.653E-09	2.613E-09	2.613E-09	1.821E-10						
A	SITE BOUNDARY	ENE	0.59	945.	1.400E-10	1.399E-10	1.400E-10	1.400E-10	3.479E-11						
A	SITE BOUNDARY	E	0.53	845.	9.895E-11	9.890E-11	9.894E-11	9.894E-11	3.712E-11						
A	SITE BOUNDARY	ESE	0.54	865.	6.961E-09	6.957E-09	6.883E-09	6.883E-09	6.421E-10						
A	SITE BOUNDARY	SE	0.65	1046.	5.172E-10	5.169E-10	5.171E-10	5.171E-10	5.598E-11						
A	SITE BOUNDARY	SSE	0.81	1307.	1.531E-09	1.529E-09	1.530E-09	1.530E-09	7.537E-11						
A	NEAR. RESIDENCE	SW	1.30	2092.	3.088E-08	3.077E-08	3.037E-08	3.037E-08	4.359E-10						
A	NEAR. RESIDENCE	WSW	1.30	2092.	2.273E-08	2.267E-08	2.227E-08	2.227E-08	2.192E-10						
A	NEAR. RESIDENCE	W	1.00	1609.	5.945E-08	5.934E-08	5.814E-08	5.814E-08	9.134E-10						
A	NEAR. RESIDENCE	WNW	1.60	2575.	5.101E-08	5.090E-08	4.924E-08	4.924E-08	7.322E-10						
A	NEAR. RESIDENCE	NW	0.90	1448.	7.623E-08	7.615E-08	7.508E-08	7.508E-08	2.393E-09						
A	NEAR. RESIDENCE	NNW	1.90	3058.	3.117E-08	3.110E-08	3.032E-08	3.032E-08	4.161E-10						
A	NEAR. RESIDENCE	N	3.00	4828.	3.587E-09	3.566E-09	3.414E-09	3.414E-09	5.768E-11						
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.855E-09	3.843E-09	3.721E-09	3.721E-09	5.660E-11						
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.346E-09	2.330E-09	2.310E-09	2.310E-09	2.927E-11						
A	NEAR. RESIDENCE	E	1.80	2897.	1.827E-09	1.824E-09	1.798E-09	1.798E-09	3.604E-11						
A	NEAR. RESIDENCE	ESE	2.40	3863.	4.434E-09	4.423E-09	4.260E-09	4.260E-09	8.067E-11						
A	NEAREST COW	NNW	3.50	5633.	1.392E-08	1.386E-08	1.327E-08	1.327E-08	1.224E-10						
A	NEAREST GARDEN	SW	1.30	2092.	3.088E-08	3.077E-08	3.037E-08	3.037E-08	4.359E-10						
A	NEAREST GARDEN	WSW	1.80	2897.	1.476E-08	1.471E-08	1.427E-08	1.427E-08	1.087E-10						
A	NEAREST GARDEN	WNW	1.60	2575.	5.101E-08	5.090E-08	4.924E-08	4.924E-08	7.322E-10						
A	NEAREST GARDEN	NW	2.80	4506.	3.296E-08	3.286E-08	3.182E-08	3.182E-08	2.421E-10						
A	NEAREST GARDEN	NNW	1.90	3058.	3.117E-08	3.110E-08	3.032E-08	3.032E-08	4.161E-10						
A	NEAREST GARDEN	N	3.00	4828.	3.587E-09	3.566E-09	3.414E-09	3.414E-09	5.768E-11						
A	NEAREST GARDEN	ENE	1.70	2736.	2.346E-09	2.330E-09	2.310E-09	2.310E-09	2.927E-11						
A	NEAREST GARDEN	E	1.80	2897.	1.827E-09	1.824E-09	1.798E-09	1.798E-09	3.604E-11						
A	NEAREST GARDEN	ESE	2.40	3863.	4.434E-09	4.423E-09	4.260E-09	4.260E-09	8.067E-11						

Atmospheric Diffusion Estimates

Elevated Releases

January-June 1995

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
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	3.300E-08	6.175E-08	7.050E-08	5.980E-08	4.614E-08	3.571E-08	2.806E-08	2.253E-08	1.851E-08	2.004E-08	2.100E-08
SSW	1.658E-08	2.475E-08	2.917E-08	2.958E-08	2.838E-08	2.401E-08	1.972E-08	2.049E-08	2.046E-08	1.781E-08	1.579E-08
SW	6.835E-09	3.083E-08	4.500E-08	5.677E-08	6.399E-08	4.073E-08	2.823E-08	2.084E-08	1.611E-08	1.290E-08	1.061E-08
WSW	2.087E-09	1.365E-08	2.627E-08	3.654E-08	5.594E-08	3.582E-08	2.518E-08	1.891E-08	1.490E-08	1.216E-08	1.020E-08
W	2.164E-08	4.957E-08	6.434E-08	6.371E-08	5.388E-08	3.467E-08	2.469E-08	1.878E-08	1.496E-08	1.232E-08	1.040E-08
WNW	1.218E-08	6.533E-08	1.159E-07	1.286E-07	1.184E-07	6.989E-08	4.651E-08	3.493E-08	2.766E-08	2.187E-08	1.784E-08
NW	1.485E-08	3.814E-08	9.624E-08	1.762E-07	2.471E-07	1.433E-07	9.431E-08	6.864E-08	5.271E-08	4.144E-08	3.364E-08
NNW	8.043E-09	2.270E-08	3.963E-08	5.189E-08	6.741E-08	6.411E-08	5.779E-08	5.128E-08	4.662E-08	3.687E-08	3.009E-08
N	5.869E-09	3.049E-08	3.801E-08	3.320E-08	2.676E-08	2.198E-08	1.804E-08	1.471E-08	1.222E-08	1.034E-08	8.682E-09
NNE	6.838E-09	3.423E-08	4.430E-08	3.673E-08	2.799E-08	2.245E-08	1.840E-08	1.538E-08	1.309E-08	1.133E-08	9.949E-09
NE	1.444E-09	1.560E-08	2.493E-08	2.330E-08	2.040E-08	1.749E-08	1.485E-08	1.266E-08	1.091E-08	9.521E-09	8.407E-09
ENE	1.546E-11	9.564E-10	3.125E-09	5.006E-09	6.447E-09	6.097E-09	5.341E-09	4.608E-09	3.990E-09	3.485E-09	3.077E-09
E	2.776E-16	2.442E-10	4.133E-09	8.233E-09	1.063E-09	9.611E-09	8.100E-09	6.776E-09	5.721E-09	4.890E-09	4.247E-09
ESE	1.422E-09	1.075E-08	1.778E-08	1.874E-08	1.756E-08	1.478E-08	1.218E-08	1.011E-08	8.521E-09	7.290E-09	6.330E-09
SE	6.034E-09	2.503E-08	3.285E-08	3.509E-08	3.467E-08	2.983E-08	2.481E-08	2.066E-08	1.741E-08	1.486E-08	1.286E-08
SSE	1.465E-08	5.674E-08	7.326E-08	6.984E-08	6.065E-08	4.950E-08	4.010E-08	3.289E-08	2.745E-08	3.691E-08	4.322E-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	1.861E-08	1.304E-08	8.533E-09	4.955E-09	3.576E-09	2.766E-09	2.168E-09	1.767E-09	1.502E-09	1.299E-09	1.130E-09
SSW	1.470E-08	1.212E-08	7.915E-09	4.575E-09	3.298E-09	2.492E-09	1.947E-09	1.582E-09	1.323E-09	1.131E-09	9.826E-10
SW	9.395E-09	5.938E-09	3.796E-09	2.129E-09	1.444E-09	1.066E-09	8.327E-10	6.696E-10	5.546E-10	4.700E-10	4.055E-10
WSW	9.302E-09	7.402E-09	5.908E-09	4.133E-09	2.845E-09	2.135E-09	1.694E-09	1.390E-09	1.173E-09	1.010E-09	8.838E-10
W	8.969E-09	5.310E-09	4.296E-09	3.349E-09	2.808E-09	2.138E-09	1.690E-09	1.388E-09	1.170E-09	1.008E-09	8.822E-10
WNW	1.512E-08	8.513E-09	5.835E-09	3.628E-09	2.534E-09	1.919E-09	1.538E-09	1.269E-09	1.067E-09	9.138E-10	7.956E-10
NW	2.828E-08	1.532E-08	1.024E-08	6.075E-09	4.073E-09	2.994E-09	2.367E-09	1.924E-09	1.604E-09	1.366E-09	1.184E-09
NNW	2.578E-08	1.491E-08	9.727E-09	5.627E-09	3.833E-09	2.851E-09	2.263E-09	1.863E-09	1.597E-09	1.379E-09	1.201E-09
N	7.750E-09	4.659E-09	3.597E-09	2.563E-09	2.002E-09	1.600E-09	1.251E-09	1.015E-09	8.452E-10	7.198E-10	6.238E-10
NNE	1.128E-08	1.924E-08	1.257E-08	7.306E-09	4.999E-09	3.732E-09	2.943E-09	2.410E-09	2.028E-09	1.742E-09	1.522E-09
NE	9.535E-09	1.341E-08	8.668E-09	4.959E-09	3.355E-09	2.483E-09	1.960E-09	1.602E-09	1.343E-09	1.148E-09	9.979E-10
ENE	3.362E-09	4.417E-09	2.884E-09	1.664E-09	1.129E-09	8.365E-10	6.693E-10	5.513E-10	4.604E-10	3.930E-10	3.412E-10
E	4.405E-09	5.232E-09	3.406E-09	1.958E-09	1.324E-09	9.793E-10	7.659E-10	6.227E-10	5.310E-10	4.600E-10	3.992E-10
ESE	6.478E-09	7.635E-09	5.048E-09	2.959E-09	2.030E-09	1.516E-09	1.195E-09	9.777E-10	8.219E-10	7.054E-10	6.154E-10
SE	1.127E-08	6.845E-09	5.185E-09	3.580E-09	2.580E-09	2.008E-09	1.644E-09	1.392E-09	1.165E-09	9.956E-10	8.655E-10
SSE	3.665E-08	2.014E-08	1.284E-08	7.206E-09	4.811E-09	3.524E-09	2.737E-09	2.212E-09	1.840E-09	1.566E-09	1.355E-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	6.380E-08	4.454E-08	2.789E-08	2.024E-08	1.983E-08	1.227E-08	5.137E-09	2.743E-09	1.781E-09	1.296E-09
SSW	2.837E-08	2.670E-08	2.117E-08	1.946E-08	1.599E-08	1.082E-08	4.750E-09	2.489E-09	1.588E-09	1.133E-09
SW	4.708E-08	5.205E-08	2.861E-08	1.623E-08	1.084E-08	5.754E-09	2.195E-09	1.074E-09	6.724E-10	4.712E-10
WSW	2.803E-08	4.269E-08	2.551E-08	1.500E-08	1.045E-08	7.160E-09	3.955E-09	2.148E-09	1.394E-09	1.011E-09
W	5.878E-08	4.753E-08	2.499E-08	1.504E-08	1.044E-08	5.672E-09	3.319E-09	2.137E-09	1.391E-09	1.010E-09
WNW	1.103E-07	9.912E-08	4.811E-08	2.753E-08	1.803E-08	8.791E-09	3.632E-09	1.931E-09	1.269E-09	9.155E-10
NW	1.189E-07	1.852E-07	9.712E-08	5.297E-08	3.397E-08	1.594E-08	6.111E-09	3.031E-09	1.929E-09	1.369E-09
NNW	4.132E-08	6.249E-08	5.687E-08	4.424E-08	3.050E-08	1.502E-08	5.741E-09	2.878E-09	1.876E-09	1.378E-09
N	3.420E-08	2.607E-08	1.776E-08	1.221E-08	8.894E-09	4.874E-09	2.543E-09	1.568E-09	1.018E-09	7.214E-10
NNE	3.870E-08	2.747E-08	1.827E-08	1.307E-08	1.085E-08	1.451E-08	7.451E-09	3.754E-09	2.417E-09	1.745E-09
NE	2.213E-08	1.975E-08	1.468E-08	1.088E-08	9.155E-09	1.044E-08	5.070E-09	2.507E-09	1.606E-09	1.150E-09
ENE	3.479E-09	5.971E-09	5.250E-09	3.974E-09	3.304E-09	3.501E-09	1.698E-09	8.477E-10	5.504E-10	3.938E-10
E	5.091E-09	9.644E-09	7.973E-09	5.708E-09	4.498E-09	4.237E-09	1.998E-09	9.860E-10	6.287E-10	4.585E-10
ESE	1.665E-08	1.659E-08	1.205E-08	8.507E-09	6.669E-09	6.228E-09	3.010E-09	1.525E-09	9.804E-10	7.066E-10
SE	3.211E-08	3.261E-08	2.449E-08	1.737E-08	1.286E-08	7.090E-09	3.492E-09	2.015E-09	1.377E-09	9.975E-10
SSE	6.807E-08	5.774E-08	3.973E-08	3.261E-08	3.892E-08	2.056E-08	7.394E-09	3.553E-09	2.220E-09	1.569E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
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	3.300E-08	6.172E-08	7.043E-08	5.972E-08	4.603E-08	3.560E-08	2.794E-08	2.242E-08	1.839E-08	1.990E-08	2.082E-08
SSW	1.657E-08	2.473E-08	2.913E-08	2.953E-08	2.828E-08	2.390E-08	1.960E-08	2.034E-08	2.027E-08	1.762E-08	1.560E-08
SW	6.833E-09	3.080E-08	4.494E-08	5.665E-08	6.376E-08	4.053E-08	2.805E-08	2.067E-08	1.596E-08	1.276E-08	1.048E-08
WSW	2.086E-09	1.364E-08	2.624E-08	3.646E-08	5.571E-08	3.561E-08	2.499E-08	1.873E-08	1.473E-08	1.199E-08	1.004E-08
W	2.164E-08	4.053E-08	6.425E-08	6.357E-08	5.368E-08	3.448E-08	2.451E-08	1.861E-08	1.479E-08	1.215E-08	1.024E-08
WNW	1.217E-08	6.526E-08	1.157E-07	1.283E-07	1.179E-07	6.947E-08	4.615E-08	3.459E-08	2.733E-08	2.157E-08	1.757E-08
NW	1.484E-08	3.811E-08	9.613E-08	1.759E-07	2.464E-07	1.428E-07	9.386E-08	6.825E-08	5.236E-08	4.112E-08	3.334E-08
NNW	8.041E-09	2.268E-08	3.959E-08	5.180E-08	6.720E-08	6.383E-08	5.746E-08	5.092E-08	4.623E-08	3.651E-08	2.977E-08
N	5.868E-09	3.047E-08	3.798E-08	3.316E-08	2.671E-08	2.192E-08	1.797E-08	1.463E-08	1.215E-08	1.027E-08	8.815E-09
NNE	6.837E-09	3.421E-08	4.425E-08	3.667E-08	2.792E-08	2.237E-08	1.832E-08	1.530E-08	1.301E-08	1.125E-08	9.870E-09
NE	1.444E-09	1.559E-08	2.489E-08	2.324E-08	2.032E-08	1.740E-08	1.475E-08	1.256E-08	1.081E-08	9.420E-09	8.308E-09
ENE	1.546E-11	9.560E-10	3.121E-09	4.996E-09	6.426E-09	6.070E-09	5.311E-09	4.577E-09	3.958E-09	3.454E-09	3.047E-09
E	2.776E-16	2.440E-10	4.128E-09	8.219E-09	1.060E-08	9.575E-09	8.062E-09	6.737E-09	5.683E-09	4.858E-09	4.211E-09
ESE	1.421E-09	1.074E-08	1.774E-08	1.869E-08	1.749E-08	1.470E-08	1.210E-08	1.004E-08	8.444E-09	7.215E-09	6.257E-09
SE	6.032E-09	2.502E-08	3.283E-08	3.505E-08	3.460E-08	2.974E-08	2.472E-08	2.057E-08	1.731E-08	1.477E-08	1.277E-08
SSE	1.464E-08	5.671E-08	7.321E-08	6.977E-08	6.055E-08	4.939E-08	3.998E-08	3.277E-08	2.733E-08	3.670E-08	4.292E-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	1.843E-08	1.282E-08	8.337E-09	4.780E-09	3.399E-09	2.591E-09	2.004E-09	1.611E-09	1.349E-09	1.150E-09	9.874E-10
SSW	1.449E-08	1.185E-08	7.678E-09	4.370E-09	3.104E-09	2.310E-09	1.778E-09	1.423E-09	1.173E-09	9.874E-10	8.456E-10
SW	9.266E-09	5.809E-09	3.686E-09	2.036E-09	1.361E-09	9.894E-10	7.613E-10	6.031E-10	4.923E-10	4.111E-10	3.496E-10
WSW	9.137E-09	7.171E-09	5.649E-09	3.850E-09	2.588E-09	1.895E-09	1.467E-09	1.175E-09	9.677E-10	8.132E-10	6.947E-10
W	8.814E-09	5.164E-09	4.128E-09	3.140E-09	2.567E-09	1.909E-09	1.475E-09	1.184E-09	9.757E-10	8.212E-10	7.025E-10
WNW	1.486E-08	8.282E-09	5.618E-09	3.420E-09	2.340E-09	1.735E-09	1.361E-09	1.100E-09	9.063E-10	7.600E-10	6.482E-10
NW	2.800E-08	1.509E-08	1.003E-08	5.890E-09	3.909E-09	2.844E-09	2.226E-09	1.791E-09	1.478E-09	1.246E-09	1.069E-09
NNW	2.547E-08	1.463E-08	9.482E-09	5.414E-09	3.641E-09	2.674E-09	2.095E-09	1.702E-09	1.439E-09	1.227E-09	1.055E-09
N	7.685E-09	4.600E-09	3.537E-09	2.499E-09	1.935E-09	1.532E-09	1.189E-09	9.557E-10	7.895E-10	6.669E-10	5.732E-10
NNE	1.118E-08	1.897E-08	1.234E-08	7.102E-09	4.813E-09	3.560E-09	2.781E-09	2.255E-09	1.880E-09	1.600E-09	1.385E-09
NE	9.413E-09	1.318E-08	8.472E-09	4.794E-09	3.209E-09	2.349E-09	1.835E-09	1.484E-09	1.231E-09	1.041E-09	8.958E-10
ENE	3.325E-09	4.341E-09	2.818E-09	1.608E-09	1.078E-09	7.901E-10	6.251E-10	5.091E-10	4.206E-10	3.551E-10	3.050E-10
E	4.363E-09	5.161E-09	3.344E-09	1.905E-09	1.277E-09	9.359E-10	7.255E-10	5.845E-10	4.940E-10	4.241E-10	3.648E-10
ESE	6.396E-09	7.514E-09	4.943E-09	2.869E-09	1.949E-09	1.442E-09	1.126E-09	9.124E-10	7.599E-10	6.462E-10	5.586E-10
SE	1.118E-08	6.768E-09	5.108E-09	3.500E-09	2.502E-09	1.931E-09	1.566E-09	1.312E-09	1.089E-09	9.226E-10	7.951E-10
SSE	3.636E-08	1.989E-08	1.263E-08	7.026E-09	4.650E-09	3.377E-09	2.600E-09	2.083E-09	1.718E-09	1.449E-09	1.244E-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	6.373E-08	4.443E-08	2.777E-08	2.012E-08	1.967E-08	1.207E-08	4.957E-09	2.572E-09	1.624E-09	1.149E-09
SSW	2.833E-08	2.661E-08	2.104E-08	1.928E-08	1.579E-08	1.058E-08	4.543E-09	2.309E-09	1.429E-09	9.898E-10
SW	4.700E-08	5.185E-08	2.843E-08	1.608E-08	1.071E-08	5.634E-09	2.103E-09	9.972E-10	6.061E-10	4.124E-10
WSW	2.798E-08	4.250E-08	2.532E-08	1.403E-08	1.028E-08	6.931E-09	3.689E-09	1.909E-09	1.180E-09	8.151E-10
W	5.868E-08	4.735E-08	2.481E-08	1.487E-08	1.028E-08	5.515E-09	3.105E-09	1.911E-09	1.188E-09	8.230E-10
WNW	1.101E-07	9.869E-08	4.774E-08	2.721E-08	1.775E-08	8.559E-09	3.428E-09	1.747E-09	1.101E-09	7.620E-10
NW	1.187E-07	1.847E-07	9.667E-08	5.262E-08	3.367E-08	1.571E-08	5.931E-09	2.881E-09	1.796E-09	1.249E-09
NNW	4.126E-08	6.228E-08	5.654E-08	4.387E-08	3.017E-08	1.475E-08	5.530E-09	2.700E-09	1.714E-09	1.226E-09
N	3.417E-08	2.601E-08	1.769E-08	1.214E-08	8.827E-09	4.813E-09	2.479E-09	1.502E-09	9.589E-10	6.685E-10
NNE	3.865E-08	2.740E-08	1.819E-08	1.299E-08	1.076E-08	1.429E-08	7.249E-09	3.582E-09	2.262E-09	1.603E-09
NE	2.209E-08	1.967E-08	1.458E-08	1.078E-08	9.047E-09	1.025E-08	4.907E-09	2.373E-09	1.488E-09	1.044E-09
ENE	3.473E-09	5.950E-09	5.220E-09	3.943E-09	3.271E-09	3.439E-09	1.642E-09	8.010E-10	5.085E-10	3.559E-10
E	5.083E-09	9.616E-09	7.936E-09	5.670E-09	4.459E-09	4.176E-09	1.946E-09	9.428E-10	5.903E-10	4.228E-10
ESE	1.661E-08	1.652E-08	1.197E-08	8.431E-09	6.592E-09	6.123E-09	2.921E-09	1.451E-09	9.153E-10	6.475E-10
SE	3.208E-08	3.254E-08	2.440E-08	1.728E-08	1.278E-08	7.011E-09	3.414E-09	1.937E-09	1.300E-09	9.246E-10
SSE	6.802E-08	5.764E-08	3.961E-08	3.245E-08	3.865E-08	2.032E-08	7.215E-09	3.406E-09	2.092E-09	1.453E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
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	3.300E-08	6.119E-08	6.907E-08	5.847E-08	4.496E-08	3.461E-08	2.701E-08	2.155E-08	1.759E-08	1.903E-08	1.994E-08		
SSW	1.658E-08	2.453E-08	2.865E-08	2.912E-08	2.785E-08	2.340E-08	1.906E-08	1.970E-08	1.959E-08	1.697E-08	1.498E-08		
SW	6.835E-09	3.054E-08	4.424E-08	5.607E-08	6.279E-08	3.950E-08	2.710E-08	1.982E-08	1.520E-08	1.208E-08	9.874E-09		
WSW	2.086E-09	1.353E-08	2.581E-08	3.605E-08	5.515E-08	3.509E-08	2.455E-08	1.837E-08	1.442E-08	1.174E-08	9.818E-09		
W	2.164E-08	3.982E-08	6.328E-08	6.243E-08	5.243E-08	3.351E-08	2.375E-08	1.799E-08	1.428E-08	1.173E-08	9.889E-09		
WNW	1.218E-08	6.474E-08	1.140E-07	1.263E-07	1.154E-07	6.736E-08	4.442E-08	3.315E-08	2.612E-08	2.053E-08	1.665E-08		
NW	1.485E-08	3.779E-08	9.506E-08	1.745E-07	2.429E-07	1.395E-07	9.103E-08	6.585E-08	5.031E-08	3.931E-08	3.172E-08		
NNW	8.042E-09	2.249E-08	3.899E-08	5.125E-08	6.647E-08	6.287E-08	5.648E-08	5.001E-08	4.542E-08	3.575E-08	2.903E-08		
N	5.869E-09	3.021E-08	3.725E-08	3.249E-08	2.613E-08	2.138E-08	1.745E-08	1.415E-08	1.170E-08	9.851E-09	8.428E-09		
NNE	6.838E-09	3.392E-08	4.335E-08	3.580E-08	2.722E-08	2.177E-08	1.779E-08	1.482E-08	1.258E-08	1.085E-08	9.507E-09		
NE	1.444E-09	1.546E-08	2.440E-08	2.275E-08	1.989E-08	1.700E-08	1.438E-08	1.222E-08	1.049E-08	9.125E-09	8.035E-09		
ENE	1.546E-11	9.486E-10	3.095E-09	4.974E-09	6.371E-09	5.984E-09	5.207E-09	4.467E-09	3.848E-09	3.346E-09	2.943E-09		
E	2.776E-16	2.441E-10	4.131E-09	8.229E-09	1.053E-08	9.429E-09	7.878E-09	6.539E-09	5.482E-09	4.660E-09	4.019E-09		
ESE	1.422E-09	1.065E-08	1.745E-08	1.841E-08	1.719E-08	1.438E-08	1.178E-08	9.715E-09	8.136E-09	6.924E-09	5.982E-09		
SE	6.033E-09	2.481E-08	3.234E-08	3.464E-08	3.413E-08	2.918E-08	2.411E-08	1.996E-08	1.672E-08	1.420E-08	1.223E-08		
SSE	1.465E-08	5.623E-08	7.195E-08	6.863E-08	5.946E-08	4.826E-08	3.887E-08	3.169E-08	2.630E-08	3.549E-08	4.167E-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	1.762E-08	1.216E-08	7.707E-09	4.195E-09	2.818E-09	2.046E-09	1.522E-09	1.182E-09	9.633E-10	8.059E-10	6.804E-10		
SSW	1.392E-08	1.136E-08	7.171E-09	3.876E-09	2.601E-09	1.882E-09	1.416E-09	1.111E-09	9.001E-10	7.462E-10	6.304E-10		
SW	8.702E-09	5.385E-09	3.334E-09	1.761E-09	1.124E-09	7.863E-10	5.899E-10	4.575E-10	3.665E-10	3.010E-10	2.521E-10		
WSW	8.954E-09	7.023E-09	5.424E-09	3.592E-09	2.354E-09	1.692E-09	1.291E-09	1.023E-09	8.352E-10	6.973E-10	5.927E-10		
W	8.509E-09	4.996E-09	4.038E-09	2.971E-09	2.323E-09	1.695E-09	1.290E-09	1.023E-09	8.352E-10	6.977E-10	5.933E-10		
WNW	1.403E-08	7.662E-09	5.089E-09	2.962E-09	1.916E-09	1.357E-09	1.033E-09	8.198E-10	6.651E-10	5.502E-10	4.637E-10		
NW	2.650E-08	1.391E-08	9.003E-09	5.018E-09	3.175E-09	2.221E-09	1.687E-09	1.325E-09	1.070E-09	8.853E-10	7.464E-10		
NNW	2.473E-08	1.386E-08	8.729E-09	4.694E-09	2.943E-09	2.040E-09	1.523E-09	1.188E-09	9.774E-10	8.165E-10	6.890E-10		
N	7.324E-09	4.332E-09	3.319E-09	2.347E-09	1.792E-09	1.370E-09	1.039E-09	8.188E-10	6.646E-10	5.524E-10	4.679E-10		
NNE	1.082E-08	1.858E-08	1.173E-08	6.403E-09	4.124E-09	2.925E-09	2.205E-09	1.734E-09	1.406E-09	1.167E-09	9.874E-10		
NE	9.144E-09	1.288E-08	8.044E-09	4.325E-09	2.756E-09	1.939E-09	1.469E-09	1.162E-09	9.452E-10	7.854E-10	6.649E-10		
ENE	3.219E-09	4.237E-09	2.674E-09	1.439E-09	9.010E-10	6.240E-10	4.705E-10	3.703E-10	2.984E-10	2.463E-10	2.072E-10		
E	4.163E-09	4.960E-09	3.125E-09	1.683E-09	1.058E-09	7.353E-10	5.445E-10	4.214E-10	3.432E-10	2.852E-10	2.391E-10		
ESE	6.119E-09	7.266E-09	4.651E-09	2.552E-09	1.624E-09	1.138E-09	8.480E-10	6.592E-10	5.287E-10	4.344E-10	3.638E-10		
SE	1.067E-08	6.371E-09	4.781E-09	3.265E-09	2.329E-09	1.800E-09	1.466E-09	1.230E-09	1.002E-09	8.359E-10	7.101E-10		
SSE	3.512E-08	1.868E-08	1.149E-08	6.051E-09	3.803E-09	2.646E-09	1.963E-09	1.523E-09	1.220E-09	1.003E-09	8.400E-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	6.260E-08	4.336E-08	2.685E-08	1.927E-08	1.881E-08	1.139E-08	4.363E-09	2.042E-09	1.196E-09	8.060E-10
SSW	2.794E-08	2.615E-08	2.047E-08	1.863E-08	1.518E-08	1.006E-08	4.041E-09	1.887E-09	1.118E-09	7.489E-10
SW	4.645E-08	5.094E-08	2.749E-08	1.533E-08	1.009E-08	5.211E-09	1.827E-09	7.977E-10	4.606E-10	3.023E-10
WSW	2.763E-08	4.199E-08	2.489E-08	1.452E-08	1.007E-08	6.742E-09	3.449E-09	1.708E-09	1.028E-09	6.994E-10
W	5.769E-08	4.624E-08	2.405E-08	1.437E-08	9.925E-09	5.351E-09	2.920E-09	1.700E-09	1.028E-09	6.998E-10
WNW	1.085E-07	9.648E-08	4.603E-08	2.600E-08	1.683E-08	7.933E-09	2.969E-09	1.376E-09	8.219E-10	5.522E-10
NW	1.176E-07	1.817E-07	9.388E-08	5.056E-08	3.204E-08	1.453E-08	5.084E-09	2.262E-09	1.332E-09	8.886E-10
NNW	4.077E-08	6.148E-08	5.559E-08	4.305E-08	2.943E-08	1.400E-08	4.812E-09	2.074E-09	1.203E-09	8.170E-10
N	3.357E-08	2.543E-08	1.718E-08	1.170E-08	8.441E-09	4.547E-09	2.316E-09	1.350E-09	8.229E-10	5.543E-10
NNE	3.790E-08	2.670E-08	1.766E-08	1.256E-08	1.039E-08	1.381E-08	6.574E-09	2.957E-09	1.744E-09	1.172E-09
NE	2.168E-08	1.924E-08	1.421E-08	1.046E-08	8.769E-09	9.900E-09	4.454E-09	1.969E-09	1.167E-09	7.881E-10
ENE	3.453E-09	5.888E-09	5.118E-09	3.834E-09	3.165E-09	3.316E-09	1.474E-09	6.365E-10	3.715E-10	2.473E-10
E	5.089E-09	9.528E-09	7.756E-09	5.471E-09	4.262E-09	3.968E-09	1.726E-09	7.451E-10	4.268E-10	2.853E-10
ESE	1.636E-08	1.621E-08	1.165E-08	8.125E-09	6.312E-09	5.849E-09	2.606E-09	1.152E-09	6.634E-10	4.362E-10
SE	3.169E-08	3.204E-08	2.380E-08	1.629E-08	1.224E-08	6.619E-09	3.186E-09	1.808E-09	1.210E-09	8.385E-10
SSE	6.698E-08	5.652E-08	3.850E-08	3.134E-08	3.741E-08	1.914E-08	6.261E-09	2.681E-09	1.533E-09	1.007E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
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
S	5.908E-09	4.570E-09	3.535E-09	2.240E-09	1.013E-09	6.010E-10	3.991E-10	2.839E-10	2.116E-10	1.674E-10
SSW	1.539E-09	1.335E-09	1.258E-09	9.390E-10	4.876E-10	3.070E-10	2.103E-10	1.521E-10	1.389E-10	1.051E-10
SW	1.660E-09	1.344E-09	1.133E-09	7.766E-10	6.041E-10	3.268E-10	2.025E-10	1.376E-10	9.950E-11	7.532E-11
WSW	9.618E-10	7.440E-10	5.757E-10	4.730E-10	2.560E-10	1.365E-10	8.381E-11	5.663E-11	4.083E-11	3.086E-11
W	1.238E-09	1.989E-09	1.372E-09	7.968E-10	3.439E-10	1.835E-10	1.120E-10	7.620E-11	5.494E-11	4.152E-11
WNW	3.024E-09	2.346E-09	2.850E-09	1.830E-09	9.818E-10	4.972E-10	2.955E-10	1.947E-10	1.415E-10	1.055E-10
NW	3.197E-09	2.666E-09	2.363E-09	3.175E-09	1.917E-09	9.554E-10	5.650E-10	3.742E-10	2.694E-10	2.071E-10
NNW	2.211E-09	1.779E-09	1.483E-09	1.008E-09	7.923E-10	4.261E-10	2.652E-10	2.103E-10	1.536E-10	1.197E-10
N	3.581E-09	2.815E-09	2.248E-09	1.469E-09	6.839E-10	4.114E-10	2.753E-10	1.966E-10	1.468E-10	1.133E-10
NNE	3.562E-09	2.702E-09	2.007E-09	1.219E-09	5.276E-10	3.066E-10	2.012E-10	1.422E-10	1.056E-10	8.132E-11
NE	1.648E-09	1.268E-09	9.715E-10	6.097E-10	2.729E-10	1.612E-10	1.068E-10	7.586E-11	5.649E-11	4.354E-11
ENE	1.450E-10	1.519E-10	1.794E-10	1.528E-10	8.644E-11	5.615E-11	3.907E-11	2.848E-11	2.149E-11	1.666E-11
E	2.312E-11	1.387E-10	2.954E-10	3.059E-10	1.911E-10	1.281E-10	9.051E-11	6.649E-11	5.036E-11	3.908E-11
ESE	7.040E-10	6.335E-10	6.286E-10	4.856E-10	2.585E-10	1.642E-10	1.131E-10	8.198E-11	6.169E-11	4.775E-11
SE	2.244E-09	1.973E-09	1.895E-09	1.434E-09	7.519E-10	4.751E-10	3.261E-10	2.361E-10	1.776E-10	1.374E-10
SSE	6.511E-09	5.316E-09	4.548E-09	3.158E-09	1.550E-09	9.537E-10	6.459E-10	4.643E-10	3.479E-10	3.218E-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
S	1.213E-10	7.002E-11	4.549E-11	2.546E-11	1.629E-11	1.253E-11	8.975E-12	6.732E-12	5.278E-12	4.200E-12
SSW	6.726E-11	4.103E-11	2.695E-11	1.513E-11	1.038E-11	7.216E-12	5.173E-12	3.886E-12	3.099E-12	2.476E-12
SW	4.816E-11	2.522E-11	1.577E-11	8.474E-12	5.356E-12	4.262E-12	3.203E-12	2.471E-12	1.921E-12	1.534E-12
WSW	1.945E-11	1.607E-11	1.146E-11	7.080E-12	4.285E-12	2.873E-12	2.080E-12	1.562E-12	1.214E-12	9.699E-13
W	2.617E-11	1.185E-11	9.699E-12	7.020E-12	4.701E-12	3.180E-12	2.278E-12	1.711E-12	1.330E-12	1.063E-12
WNW	6.765E-11	3.296E-11	2.087E-11	1.142E-11	8.318E-12	5.777E-12	4.147E-12	3.120E-12	2.482E-12	1.983E-12
NW	1.424E-10	8.128E-11	5.647E-11	3.519E-11	2.144E-11	1.440E-11	1.045E-11	7.849E-12	6.153E-12	4.915E-12
NNW	8.492E-11	5.100E-11	3.635E-11	2.191E-11	1.407E-11	9.451E-12	6.689E-12	4.931E-12	3.794E-12	3.032E-12
N	7.248E-11	3.463E-11	2.132E-11	1.148E-11	1.753E-11	1.175E-11	8.391E-12	6.302E-12	4.900E-12	3.915E-12
NNE	5.209E-11	9.565E-11	5.947E-11	3.104E-11	1.901E-11	1.274E-11	9.119E-12	6.833E-12	5.303E-12	4.232E-12
NE	2.787E-11	5.617E-11	3.541E-11	1.877E-11	1.153E-11	7.713E-12	5.436E-12	4.054E-12	3.197E-12	2.554E-12
ENE	1.063E-11	1.698E-11	1.299E-11	8.219E-12	5.291E-12	3.503E-12	2.454E-12	1.518E-12	1.181E-12	9.443E-13
E	2.493E-11	2.314E-11	1.606E-11	9.412E-12	5.944E-12	3.946E-12	2.784E-12	2.053E-12	1.574E-12	1.364E-12
ESE	3.050E-11	3.250E-11	2.338E-11	1.416E-11	9.056E-12	6.038E-12	4.271E-12	3.155E-12	2.420E-12	1.914E-12
SE	8.778E-11	4.175E-11	2.558E-11	1.362E-11	8.444E-12	5.899E-12	4.475E-12	3.165E-12	2.042E-12	1.582E-12
SSE	2.433E-10	1.751E-10	1.075E-10	5.527E-11	3.362E-11	2.251E-11	1.610E-11	1.206E-11	9.358E-12	7.463E-12

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) BY DOWNWIND SECTORS *****										
DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.190E-09	1.103E-09	4.069E-10	2.154E-10	1.447E-10	7.052E-11	2.584E-11	1.211E-11	6.819E-12	4.234E-12
SSW	1.133E-09	5.076E-10	2.128E-10	1.298E-10	8.352E-11	4.060E-11	1.564E-11	7.241E-12	3.954E-12	2.492E-12
SW	1.021E-09	5.192E-10	2.097E-10	1.012E-10	5.982E-11	2.611E-11	8.709E-12	4.130E-12	2.470E-12	1.545E-12
WSW	5.675E-10	2.511E-10	8.699E-11	4.154E-11	2.440E-11	1.477E-11	6.811E-12	2.932E-12	1.577E-12	9.762E-13
W	1.253E-09	3.733E-10	1.170E-10	5.590E-11	3.283E-11	1.408E-11	6.584E-12	3.225E-12	1.728E-12	1.070E-12
WNW	2.285E-09	9.550E-10	3.090E-10	1.430E-10	8.376E-11	3.530E-11	1.214E-11	5.803E-12	3.170E-12	1.996E-12
NW	2.792E-09	1.769E-09	5.928E-10	2.756E-10	1.700E-10	8.384E-11	3.381E-11	1.470E-11	7.946E-12	4.948E-12
NNW	1.338E-09	6.774E-10	2.861E-10	1.569E-10	9.973E-11	5.203E-11	2.164E-11	9.579E-12	5.000E-12	3.051E-12
N	2.028E-09	7.374E-10	2.801E-10	1.483E-10	9.031E-11	3.713E-11	1.635E-11	1.195E-11	6.365E-12	3.941E-12
NNE	1.811E-09	5.830E-10	2.057E-10	1.068E-10	6.484E-11	6.989E-11	3.201E-11	1.296E-11	6.903E-12	4.260E-12
NE	8.767E-10	2.981E-10	1.089E-10	5.709E-11	3.472E-11	4.065E-11	1.925E-11	7.821E-12	4.123E-12	2.571E-12
ENE	1.615E-10	8.772E-11	3.939E-11	2.165E-11	1.327E-11	1.380E-11	7.977E-12	3.560E-12	1.657E-12	9.505E-13
E	2.653E-10	1.886E-10	9.093E-11	5.067E-11	3.113E-11	2.039E-11	9.347E-12	4.014E-12	2.079E-12	1.333E-12
ESE	5.662E-10	2.671E-10	1.143E-10	6.218E-11	3.805E-11	2.800E-11	1.394E-11	6.136E-12	3.194E-12	1.929E-12
SE	1.707E-09	7.805E-10	3.299E-10	1.790E-10	1.095E-10	4.479E-11	1.398E-11	6.008E-12	7.016E-12	5.625E-12
SSE	4.101E-09	1.642E-09	6.554E-10	3.712E-10	2.830E-10	1.602E-10	5.726E-11	2.291E-11	1.211E-11	7.514E-12

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q
			(MILES)	(METERS)	(SEC/CUB.METER) NO DECAY	(SEC/CUB.METER) 2.260 DAY DECAY	(SEC/CUB.METER) 8.000 DAY DECAY	(PER SQ.METER)
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	6.813E-08	6.806E-08	6.668E-08	3.224E-09
A	SITE BOUNDARY	SSW	0.82	1327.	2.913E-08	2.909E-08	2.862E-08	1.164E-09
A	SITE BOUNDARY	SW	0.98	1569.	5.563E-08	5.552E-08	5.491E-08	8.114E-10
A	SITE BOUNDARY	WSW	0.93	1489.	3.301E-08	3.295E-08	3.252E-08	4.241E-10
A	SITE BOUNDARY	W	0.91	1468.	6.491E-08	6.479E-08	6.370E-08	9.388E-10
A	SITE BOUNDARY	WNW	0.94	1509.	1.268E-07	1.265E-07	1.246E-07	2.082E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.155E-07	1.153E-07	1.142E-07	2.184E-09
A	SITE BOUNDARY	NNW	0.69	1106.	3.445E-08	3.441E-08	3.389E-08	1.535E-09
A	SITE BOUNDARY	N	0.67	1086.	3.635E-08	3.633E-08	3.570E-08	2.377E-09
A	SITE BOUNDARY	NNE	0.60	965.	4.010E-08	4.007E-08	3.949E-08	2.376E-09
A	SITE BOUNDARY	NE	0.62	1005.	2.123E-08	2.121E-08	2.089E-08	1.097E-09
A	SITE BOUNDARY	ENE	0.59	945.	1.513E-09	1.512E-09	1.497E-09	1.593E-10
A	SITE BOUNDARY	E	0.53	845.	3.938E-10	3.935E-10	3.937E-10	1.538E-10
A	SITE BOUNDARY	ESE	0.54	865.	1.187E-08	1.185E-08	1.174E-08	6.271E-10
A	SITE BOUNDARY	SE	0.65	1046.	2.894E-08	2.892E-08	2.851E-08	1.895E-09
A	SITE BOUNDARY	SSE	0.81	1307.	7.248E-08	7.243E-08	7.116E-08	4.166E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	6.468E-08	6.449E-08	6.371E-08	8.113E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	5.048E-08	5.031E-08	4.980E-08	3.471E-10
A	NEAR. RESIDENCE	W	1.00	1609.	6.371E-08	6.357E-08	6.243E-08	7.968E-10
A	NEAR. RESIDENCE	WNW	1.60	2575.	1.053E-07	1.047E-07	1.024E-07	8.426E-10
A	NEAR. RESIDENCE	NW	0.90	1448.	1.441E-07	1.417E-07	1.427E-07	3.553E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	6.523E-08	6.496E-08	6.403E-08	4.767E-10
A	NEAR. RESIDENCE	N	3.00	4828.	1.471E-08	1.463E-08	1.415E-08	1.966E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	1.709E-08	1.701E-08	1.650E-08	1.739E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	6.414E-09	6.390E-09	6.321E-09	7.155E-11
A	NEAR. RESIDENCE	E	1.80	2897.	1.016E-08	1.013E-08	1.001E-08	1.493E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	1.266E-08	1.258E-08	1.225E-08	1.212E-10
A	NEAREST COW	NNW	3.50	5633.	4.661E-08	4.622E-08	4.541E-08	1.535E-10
A	NEAREST GARDEN	SW	1.30	2092.	6.468E-08	6.449E-08	6.371E-08	8.113E-10
A	NEAREST GARDEN	WSW	1.80	2897.	4.227E-08	4.205E-08	4.150E-08	1.715E-10
A	NEAREST GARDEN	WNW	1.60	2575.	1.053E-07	1.048E-07	1.024E-07	8.426E-10
A	NEAREST GARDEN	NW	2.80	4506.	7.737E-08	7.696E-08	7.439E-08	4.364E-10
A	NEAREST GARDEN	NNW	1.90	3058.	6.523E-08	6.496E-08	6.403E-08	4.767E-10
A	NEAREST GARDEN	N	3.00	4828.	1.471E-08	1.463E-08	1.415E-08	1.966E-10
A	NEAREST GARDEN	ENE	1.70	2736.	6.414E-09	6.390E-09	6.321E-09	7.155E-11
A	NEAREST GARDEN	E	1.80	2897.	1.016E-08	1.013E-08	1.001E-08	1.493E-10
A	NEAREST GARDEN	ESE	2.40	3863.	1.266E-08	1.258E-08	1.225E-08	1.212E-10

Atmospheric Diffusion Estimates

Elevated Releases

July-September 1995

ERP ELEVATED STACK RELEASES - JUL-SEP 1995
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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	2.411E-17	1.719E-11	9.307E-10	3.635E-09	7.794E-09	4.509E-09	2.953E-09	2.131E-09	1.621E-09	1.269E-09	1.026E-09	0.000E+00	0.000E+00
NNW	6.472E-09	1.055E-08	1.453E-08	1.537E-08	1.583E-08	1.357E-08	1.136E-08	9.302E-09	7.652E-09	5.943E-09	4.776E-09	0.000E+00	0.000E+00
N	4.669E-09	1.304E-08	9.580E-09	6.204E-09	3.882E-09	2.934E-09	2.395E-09	2.017E-09	1.762E-09	1.578E-09	1.439E-09	0.000E+00	0.000E+00
NNE	1.938E-16	1.237E-10	1.763E-09	3.267E-09	4.107E-09	3.793E-09	3.302E-09	2.861E-09	2.500E-09	2.210E-09	1.977E-09	0.000E+00	0.000E+00
NE	6.628E-11	3.692E-09	5.326E-09	3.855E-09	2.039E-09	1.230E-09	8.188E-10	5.848E-10	4.396E-10	3.434E-10	2.765E-10	0.000E+00	0.000E+00
ENE	5.538E-11	2.786E-09	3.780E-09	2.527E-09	1.139E-09	6.021E-10	3.618E-10	2.380E-10	1.673E-10	1.235E-10	9.471E-11	0.000E+00	0.000E+00
E	2.418E-11	1.172E-09	1.728E-09	1.401E-09	1.085E-09	9.282E-10	8.016E-10	6.943E-10	6.051E-10	5.316E-10	4.713E-10	0.000E+00	0.000E+00
ESE	1.051E-16	5.226E-11	6.907E-10	1.205E-09	1.338E-09	1.106E-09	8.752E-10	6.973E-10	5.654E-10	4.672E-10	3.929E-10	0.000E+00	0.000E+00
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	8.566E-10	4.489E-10	2.921E-10	1.665E-10	1.109E-10	8.098E-11	6.288E-11	5.069E-11	4.208E-11	3.571E-11	3.085E-11	0.000E+00	0.000E+00
NNW	3.984E-09	2.079E-09	1.323E-09	7.407E-10	4.944E-10	3.621E-10	2.817E-10	2.280E-10	1.903E-10	1.620E-10	1.401E-10	0.000E+00	0.000E+00
N	1.336E-09	1.042E-09	1.179E-09	1.316E-09	1.190E-09	9.814E-10	7.764E-10	6.353E-10	5.340E-10	4.584E-10	4.000E-10	0.000E+00	0.000E+00
NNE	2.400E-09	4.201E-09	2.733E-09	1.574E-09	1.068E-09	7.920E-10	6.211E-10	5.060E-10	4.240E-10	3.629E-10	3.159E-10	0.000E+00	0.000E+00
NE	2.427E-10	1.323E-10	7.898E-11	4.162E-11	2.807E-11	2.077E-11	1.628E-11	1.328E-11	1.115E-11	9.561E-12	8.342E-12	0.000E+00	0.000E+00
ENE	7.542E-11	3.223E-11	1.796E-11	9.199E-12	6.899E-12	5.519E-12	4.600E-12	3.943E-12	3.450E-12	3.067E-12	2.760E-12	0.000E+00	0.000E+00
E	5.181E-10	5.002E-10	3.209E-10	1.815E-10	1.219E-10	8.965E-11	6.980E-11	5.652E-11	4.730E-11	4.038E-11	3.497E-11	0.000E+00	0.000E+00
ESE	3.634E-10	2.286E-10	1.419E-10	7.617E-11	4.899E-11	3.480E-11	2.632E-11	2.079E-11	1.694E-11	1.415E-11	1.204E-11	0.000E+00	0.000E+00
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	1.930E-09	5.410E-09	3.039E-09	1.632E-09	1.035E-09	4.698E-10	1.697E-10	8.171E-11	5.089E-11	3.580E-11
NNW	1.402E-08	1.472E-08	1.113E-08	7.472E-09	4.828E-09	2.166E-09	7.606E-10	3.652E-10	2.290E-10	1.623E-10
N	8.847E-09	3.977E-09	2.587E-09	1.765E-09	1.442E-09	1.168E-09	1.230E-09	9.551E-10	6.370E-10	4.592E-10
NNE	2.067E-09	3.780E-09	3.257E-09	2.493E-09	2.203E-09	3.148E-09	1.607E-09	7.973E-10	5.077E-10	3.636E-10
NE	4.309E-09	2.083E-09	8.348E-10	4.445E-10	2.838E-10	1.331E-10	4.390E-11	2.092E-11	1.333E-11	9.579E-12
ENE	3.002E-09	1.209E-09	3.764E-10	1.708E-10	9.609E-11	3.549E-11	1.012E-11	5.520E-12	3.943E-12	3.067E-12
E	1.459E-09	1.086E-09	7.924E-10	6.026E-10	5.065E-10	4.245E-10	1.860E-10	9.031E-11	5.680E-11	4.043E-11
ESE	7.776E-10	1.205E-09	8.655E-10	5.657E-10	4.040E-10	2.200E-10	7.871E-11	3.519E-11	2.090E-11	1.420E-11
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ERP ELEVATED STACK RELEASES - JUL-SEP 1995
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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	2.411E-17	1.718E-11	9.301E-10	3.632E-09	7.786E-09	4.503E-09	2.948E-09	2.126E-09	1.617E-09	1.265E-09	1.023E-09		
NNW	6.471E-09	1.054E-08	1.452E-08	1.536E-08	1.581E-08	1.355E-08	1.133E-08	9.275E-09	7.626E-09	5.920E-09	4.756E-09		
N	4.668E-09	1.303E-08	9.574E-09	6.199E-09	3.879E-09	2.930E-09	2.391E-09	2.012E-09	1.757E-09	1.574E-09	1.434E-09		
NNE	1.938E-16	1.237E-10	1.762E-09	3.264E-09	4.101E-09	3.785E-09	3.294E-09	2.852E-09	2.490E-09	2.200E-09	1.966E-09		
NE	6.627E-11	3.691E-09	5.322E-09	3.851E-09	2.037E-09	1.228E-09	8.171E-10	5.834E-10	4.383E-10	3.423E-10	2.755E-10		
ENE	5.537E-11	2.785E-09	3.778E-09	2.525E-09	1.138E-09	6.014E-10	3.612E-10	2.376E-10	1.669E-10	1.232E-10	9.445E-11		
E	2.418E-11	1.172E-09	1.728E-09	1.400E-09	1.084E-09	9.272E-10	8.004E-10	6.931E-10	6.039E-10	5.304E-10	4.701E-10		
ESE	1.051E-16	5.224E-11	6.904E-10	1.205E-09	1.337E-09	1.105E-09	8.740E-10	6.961E-10	5.643E-10	4.661E-10	3.919E-10		
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	8.535E-10	4.465E-10	2.900E-10	1.648E-10	1.093E-10	7.955E-11	6.155E-11	4.945E-11	4.089E-11	3.459E-11	2.977E-11		
NNW	3.964E-09	2.064E-09	1.310E-09	7.297E-10	4.846E-10	3.532E-10	2.734E-10	2.201E-10	1.828E-10	1.548E-10	1.332E-10		
N	1.331E-09	1.035E-09	1.169E-09	1.297E-09	1.167E-09	9.575E-10	7.537E-10	6.137E-10	5.135E-10	4.384E-10	3.807E-10		
NNE	2.385E-09	4.150E-09	2.688E-09	1.536E-09	1.033E-09	7.598E-10	5.908E-10	4.773E-10	3.966E-10	3.366E-10	2.904E-10		
NE	2.417E-10	1.314E-10	7.834E-11	4.111E-11	2.761E-11	2.034E-11	1.589E-11	1.290E-11	1.079E-11	9.212E-12	8.005E-12		
ENE	7.520E-11	3.209E-11	1.786E-11	9.116E-12	6.817E-12	5.437E-12	4.518E-12	3.861E-12	3.368E-12	2.985E-12	2.679E-12		
E	5.166E-10	4.980E-10	3.191E-10	1.799E-10	1.205E-10	8.834E-11	6.858E-11	5.537E-11	4.620E-11	3.933E-11	3.396E-11		
ESE	3.624E-10	2.277E-10	1.412E-10	7.554E-11	4.845E-11	3.432E-11	2.589E-11	2.039E-11	1.657E-11	1.380E-11	1.172E-11		
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	1.928E-09	5.404E-09	3.034E-09	1.628E-09	1.032E-09	4.674E-10	1.679E-10	8.028E-11	4.965E-11	3.467E-11
NNW	1.407E-08	1.470E-08	1.110E-08	7.447E-09	4.807E-09	2.151E-09	7.497E-10	3.563E-10	2.211E-10	1.551E-10
N	8.842E-09	3.973E-09	2.383E-09	1.760E-09	1.437E-09	1.160E-09	1.211E-09	9.319E-10	6.154E-10	4.392E-10
NNE	2.066E-09	3.775E-09	3.248E-09	2.483E-09	2.190E-09	3.108E-09	1.569E-09	7.651E-10	4.790E-10	3.373E-10
NE	4.306E-09	2.080E-09	8.331E-10	4.432E-10	2.828E-10	1.323E-10	4.338E-11	2.050E-11	1.295E-11	9.231E-12
ENE	3.001E-09	1.208E-09	3.758E-10	1.705E-10	9.584E-11	3.534E-11	1.004E-11	5.437E-12	3.861E-12	2.985E-12
E	1.459E-09	1.085E-09	7.913E-10	6.014E-10	5.052E-10	4.226E-10	1.844E-10	8.901E-11	5.565E-11	3.938E-11
ESE	7.772E-10	1.204E-09	8.644E-10	5.646E-10	4.030E-10	2.192E-10	7.809E-11	3.472E-11	2.051E-11	1.385E-11
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ERP ELEVATED STACK RELEASES - JUL-SEP 1995
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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
NW	2.411E-17	1.719E-11	9.305E-10	3.622E-09	7.742E-09	4.460E-09	2.911E-09	2.095E-09	1.590E-09	1.240E-09	9.984E-10	7.711E-10	
NNW	6.471E-09	1.045E-08	1.427E-08	1.512E-08	1.554E-08	1.325E-08	1.105E-08	9.017E-09	7.395E-09	5.711E-09	4.563E-09	3.584E-09	
N	4.669E-09	1.292E-08	9.374E-09	6.052E-09	3.781E-09	2.849E-09	2.318E-09	1.946E-09	1.697E-09	1.519E-09	1.384E-09	1.259E-09	
NNE	1.938E-16	1.237E-10	1.763E-09	3.266E-09	4.071E-09	3.733E-09	3.231E-09	2.785E-09	2.424E-09	2.136E-09	1.905E-09	1.705E-09	
NE	6.628E-11	3.659E-09	5.201E-09	3.727E-09	1.946E-09	1.162E-09	7.666E-10	5.430E-10	4.049E-10	3.139E-10	2.509E-10	2.000E-10	
ENE	5.538E-11	2.761E-09	3.687E-09	2.433E-09	1.074E-09	5.584E-10	3.307E-10	2.149E-10	1.494E-10	1.092E-10	8.295E-11	6.406E-11	
E	2.418E-11	1.162E-09	1.690E-09	1.362E-09	1.056E-09	9.052E-10	7.828E-10	6.785E-10	5.914E-10	5.196E-10	4.606E-10	4.167E-10	
ESE	1.051E-16	5.225E-11	6.906E-10	1.205E-09	1.325E-09	1.084E-09	8.493E-10	6.700E-10	5.382E-10	4.408E-10	3.675E-10	3.000E-10	
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
NW	8.288E-10	4.205E-10	2.642E-10	1.420E-10	9.034E-11	6.349E-11	4.765E-11	3.726E-11	3.007E-11	2.487E-11	2.097E-11	1.771E-11	
NNW	3.783E-09	1.911E-09	1.176E-09	6.157E-10	3.818E-10	2.627E-10	1.939E-10	1.504E-10	1.215E-10	1.003E-10	8.436E-11	7.171E-11	
N	1.284E-09	1.001E-09	1.143E-09	1.285E-09	1.129E-09	8.829E-10	6.777E-10	5.397E-10	4.426E-10	3.713E-10	3.171E-10	2.700E-10	
NNE	2.323E-09	4.072E-09	2.556E-09	1.379E-09	8.760E-10	6.146E-10	4.592E-10	3.584E-10	2.887E-10	2.382E-10	2.004E-10	1.700E-10	
NE	2.189E-10	1.158E-10	6.661E-11	3.300E-11	2.113E-11	1.495E-11	1.128E-11	8.877E-12	7.212E-12	6.002E-12	5.090E-12	4.361E-12	
ENE	6.549E-11	2.717E-11	1.471E-11	7.127E-12	5.076E-12	3.854E-12	3.049E-12	2.519E-12	2.134E-12	1.840E-12	1.610E-12	1.400E-12	
E	5.077E-10	4.873E-10	3.021E-10	1.589E-10	9.808E-11	6.721E-11	4.921E-11	3.771E-11	3.002E-11	2.470E-11	2.080E-11	1.740E-11	
ESE	3.372E-10	2.042E-10	1.230E-10	6.292E-11	3.898E-11	2.683E-11	1.974E-11	1.521E-11	1.213E-11	9.923E-12	8.287E-12	7.000E-12	
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	1.924E-09	5.368E-09	2.998E-09	1.601E-09	1.007E-09	4.418E-10	1.462E-10	6.431E-11	3.749E-11	2.496E-11
NNW	1.380E-08	1.443E-08	1.082E-08	7.217E-09	4.614E-09	2.000E-09	6.362E-10	2.669E-10	1.518E-10	1.007E-10
N	8.685E-09	3.871E-09	2.311E-09	1.701E-09	1.387E-09	1.127E-09	1.184E-09	8.664E-10	5.421E-10	3.723E-10
NNE	2.067E-09	3.742E-09	3.186E-09	2.417E-09	2.128E-09	3.010E-09	1.417E-09	6.222E-10	3.606E-10	2.392E-10
NE	4.203E-09	1.993E-09	7.825E-10	4.097E-10	2.577E-10	1.169E-10	3.519E-11	1.513E-11	8.928E-12	6.023E-12
ENE	2.924E-09	1.147E-09	3.451E-10	1.528E-10	8.425E-11	3.015E-11	7.901E-12	3.858E-12	2.524E-12	1.842E-12
E	1.427E-09	1.957E-09	7.737E-10	5.889E-10	4.955E-10	4.095E-10	1.637E-10	6.824E-11	3.806E-11	2.483E-11
ESE	7.775E-10	1.191E-09	8.402E-10	5.388E-10	3.780E-10	1.976E-10	6.562E-11	2.724E-11	1.533E-11	9.971E-12
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ERP ELEVATED STACK RELEASES - JUL-SEP 1995
 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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	1.502E-12	9.010E-12	1.918E-11	5.216E-11	3.474E-11	1.750E-11	1.070E-11	7.556E-12	5.990E-12	5.165E-12	4.726E-12
NNW	1.471E-09	1.133E-09	8.676E-10	5.445E-10	3.754E-10	2.000E-10	1.227E-10	9.420E-11	6.724E-11	5.108E-11	4.076E-11
N	8.843E-10	6.886E-10	5.398E-10	3.466E-10	1.586E-10	9.471E-11	6.310E-11	4.497E-11	3.354E-11	2.587E-11	2.048E-11
NNE	1.201E-11	7.208E-11	1.535E-10	1.590E-10	9.929E-11	6.658E-11	4.703E-11	3.455E-11	2.616E-11	2.031E-11	1.608E-11
NE	5.840E-10	4.260E-10	2.895E-10	1.582E-10	6.025E-11	3.262E-11	2.051E-11	1.414E-11	1.037E-11	7.939E-12	6.282E-12
ENE	5.825E-10	4.170E-10	2.703E-10	1.383E-10	4.784E-11	2.430E-11	1.463E-11	9.826E-12	7.098E-12	5.401E-12	4.272E-12
E	2.928E-10	2.175E-10	1.543E-10	8.903E-11	3.633E-11	2.047E-11	1.319E-11	9.231E-12	6.819E-12	5.239E-12	4.146E-12
ESE	6.907E-12	3.604E-11	7.674E-11	7.948E-11	4.965E-11	3.329E-11	2.351E-11	1.727E-11	1.308E-11	1.015E-11	8.041E-12
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	4.500E-12	3.524E-12	2.791E-12	1.602E-12	9.698E-13	6.503E-13	4.659E-13	3.499E-13	2.729E-13	2.173E-13	1.774E-13
NNW	3.400E-11	1.819E-11	1.223E-11	7.052E-12	4.532E-12	3.096E-12	2.389E-12	1.758E-12	1.367E-12	1.092E-12	8.910E-13
N	1.656E-11	7.916E-12	4.877E-12	2.633E-12	8.418E-12	4.711E-12	3.375E-12	2.535E-12	1.971E-12	1.574E-12	1.285E-12
NNE	1.295E-11	2.064E-11	1.320E-11	7.092E-12	4.369E-12	2.916E-12	2.073E-12	1.542E-12	1.190E-12	9.438E-13	7.657E-13
NE	5.100E-12	3.538E-12	2.143E-12	1.083E-12	6.556E-13	4.396E-13	3.150E-13	2.365E-13	1.839E-13	1.469E-13	1.199E-13
ENE	3.481E-12	1.719E-12	1.071E-12	6.010E-13	4.142E-13	3.098E-13	2.441E-13	1.593E-13	1.239E-13	9.897E-14	8.078E-14
E	3.360E-12	5.436E-12	4.218E-12	2.711E-12	1.768E-12	1.184E-12	8.382E-13	6.191E-13	4.737E-13	3.103E-13	2.532E-13
ESE	6.476E-12	3.549E-12	2.057E-12	1.004E-12	6.033E-13	4.065E-13	2.944E-13	2.241E-13	1.769E-13	1.437E-13	1.192E-13
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

***** 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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	3.158E-11	3.095E-11	1.126E-11	6.123E-12	4.772E-12	3.415E-12	1.585E-12	6.617E-13	3.534E-13	2.187E-13
NNW	7.829E-10	3.350E-10	1.319E-10	6.879E-11	4.131E-11	1.905E-11	7.082E-12	3.196E-12	1.789E-12	1.099E-12
N	4.870E-10	1.720E-10	6.427E-11	3.388E-11	2.062E-11	8.485E-12	5.703E-12	5.165E-12	2.560E-12	1.585E-12
NNE	1.378E-10	9.801E-11	4.725E-11	2.633E-11	1.618E-11	1.563E-11	7.240E-12	2.966E-12	1.560E-12	9.507E-13
NE	2.615E-10	6.974E-11	2.119E-11	1.052E-11	6.335E-12	3.265E-12	1.129E-12	4.473E-13	2.389E-13	1.479E-13
ENE	2.442E-10	5.748E-11	1.529E-11	7.231E-12	4.313E-12	1.822E-12	6.224E-13	3.114E-13	1.701E-13	9.962E-14
E	1.394E-10	4.099E-11	1.355E-11	6.906E-12	4.179E-12	4.433E-12	2.627E-12	1.201E-12	6.263E-13	3.376E-13
ESE	6.891E-11	4.901E-11	2.362E-11	1.316E-11	8.088E-12	3.536E-12	1.060E-12	4.141E-13	2.262E-13	1.445E-13
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ERP ELEVATED STACK RELEASES - JUL-SEP 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q (PER SQ.METER)
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.88	1287.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	SITE BOUNDARY	SSW	0.82	1327.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	SITE BOUNDARY	SW	0.98	1569.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	SITE BOUNDARY	WSW	0.93	1489.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	SITE BOUNDARY	W	0.91	1468.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	SITE BOUNDARY	WNW	0.94	1509.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	SITE BOUNDARY	NW	0.81	1307.	1.448E-09	1.446E-09	1.448E-09	2.028E-11
A	SITE BOUNDARY	NNW	0.69	1106.	1.342E-08	1.341E-08	1.319E-08	9.189E-10
A	SITE BOUNDARY	N	0.67	1086.	1.044E-08	1.044E-08	1.025E-08	5.742E-10
A	SITE BOUNDARY	NNE	0.60	965.	5.479E-10	5.477E-10	5.478E-10	1.039E-10
A	SITE BOUNDARY	NE	0.62	1005.	4.944E-09	4.941E-09	4.860E-09	3.500E-10
A	SITE BOUNDARY	ENE	0.59	945.	3.465E-09	3.463E-09	3.413E-09	3.585E-10
A	SITE BOUNDARY	E	0.53	845.	1.278E-09	1.277E-09	1.264E-09	2.097E-10
A	SITE BOUNDARY	ESE	0.54	865.	9.909E-11	9.906E-11	9.908E-11	4.191E-11
A	SITE BOUNDARY	SE	0.65	1046.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	SITE BOUNDARY	SSE	0.81	1307.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	NEAR. RESIDENCE	SW	1.30	2092.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	NEAR. RESIDENCE	WSW	1.30	2092.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	NEAR. RESIDENCE	W	1.00	1609.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	NEAR. RESIDENCE	WNW	1.60	2575.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	NEAR. RESIDENCE	NW	0.90	1448.	2.369E-09	2.368E-09	2.365E-09	6.200E-11
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.404E-08	1.402E-08	1.372E-08	2.240E-10
A	NEAR. RESIDENCE	N	3.00	4828.	2.017E-09	2.012E-09	1.946E-09	4.497E-11
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.117E-09	3.108E-09	3.042E-09	4.140E-11
A	NEAR. RESIDENCE	ENE	1.70	2736.	8.667E-10	8.659E-10	8.117E-10	3.363E-11
A	NEAR. RESIDENCE	E	1.80	2897.	9.854E-10	9.844E-10	9.602E-10	2.395E-11
A	NEAR. RESIDENCE	ESE	2.40	3863.	9.172E-10	9.160E-10	8.918E-10	2.512E-11
A	NEAREST COW	NNW	3.50	5633.	7.650E-09	7.625E-09	7.394E-09	6.723E-11
A	NEAREST GARDEN	SW	1.30	2092.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	NEAREST GARDEN	WSW	1.80	2897.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	NEAREST GARDEN	WNW	1.60	2575.	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A	NEAREST GARDEN	NW	2.80	4506.	2.410E-09	2.406E-09	2.373E-09	8.555E-12
A	NEAREST GARDEN	NNW	1.90	3058.	1.404E-08	1.402E-08	1.372E-08	2.240E-10
A	NEAREST GARDEN	N	3.00	4828.	2.017E-09	2.012E-09	1.946E-09	4.497E-11
A	NEAREST GARDEN	ENE	1.70	2736.	8.667E-10	8.659E-10	8.117E-10	3.363E-11
A	NEAREST GARDEN	E	1.80	2897.	9.854E-10	9.844E-10	9.602E-10	2.395E-11
A	NEAREST GARDEN	ESE	2.40	3863.	9.172E-10	9.160E-10	8.918E-10	2.512E-11

Atmospheric Diffusion Estimates

Elevated Releases

October-December 1995

ERP ELEVATED STACK RELEASES - OCT-DEC 1995
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	1.742E-08	3.854E-08	5.471E-08	5.245E-08	4.568E-08	3.778E-08	3.104E-08	2.577E-08	2.173E-08	2.573E-08	2.859E-08	
SSW	1.027E-10	8.581E-09	1.727E-08	1.875E-08	1.897E-08	1.731E-08	1.523E-08	1.835E-08	2.051E-08	1.855E-08	1.689E-08	
SW	1.527E-09	1.166E-08	2.948E-08	4.700E-08	6.536E-08	4.373E-08	3.140E-08	2.385E-08	1.890E-08	1.548E-08	1.301E-08	
WSW	2.168E-09	2.360E-08	6.036E-08	8.980E-08	1.172E-07	7.237E-08	4.941E-08	3.616E-08	2.782E-08	2.221E-08	1.826E-08	
W	2.024E-08	9.714E-08	1.623E-07	1.591E-07	1.306E-07	8.084E-08	5.547E-08	4.080E-08	3.154E-08	2.529E-08	2.087E-08	
WNW	2.659E-08	9.377E-08	1.345E-07	1.569E-07	1.810E-07	1.115E-07	7.641E-08	5.948E-08	4.831E-08	3.858E-08	3.174E-08	
NW	2.000E-08	3.867E-08	7.492E-08	1.450E-07	2.814E-07	1.734E-07	1.189E-07	9.018E-08	7.153E-08	5.726E-08	4.719E-08	
NNW	2.237E-09	3.153E-08	6.518E-08	8.233E-08	1.142E-07	1.222E-07	1.247E-07	1.205E-07	1.146E-07	9.105E-08	7.462E-08	
N	4.215E-08	8.208E-08	8.541E-08	7.321E-08	6.311E-08	5.540E-08	4.782E-08	4.044E-08	3.462E-08	3.004E-08	2.638E-08	
NNE	2.636E-08	4.609E-08	5.304E-08	5.346E-08	5.243E-08	4.577E-08	3.865E-08	3.264E-08	2.785E-08	2.406E-08	2.106E-08	
NE	7.000E-11	5.292E-09	1.675E-08	2.509E-08	3.011E-08	2.766E-08	2.387E-08	2.040E-08	1.753E-08	1.523E-08	1.357E-08	
ENE	2.030E-09	1.253E-08	1.829E-08	1.983E-08	2.041E-08	1.800E-08	1.517E-08	1.273E-08	1.078E-08	9.242E-09	8.025E-09	
E	6.965E-09	3.933E-08	5.078E-08	4.653E-08	3.975E-08	3.266E-08	2.668E-08	2.205E-08	1.853E-08	1.582E-08	1.371E-08	
ESE	4.430E-09	3.300E-08	5.719E-08	6.368E-08	6.132E-08	5.143E-08	4.260E-08	3.462E-08	2.892E-08	2.454E-08	2.113E-08	
SE	3.687E-09	2.559E-08	5.561E-08	7.229E-08	7.599E-08	6.504E-08	5.357E-08	4.424E-08	3.703E-08	3.146E-08	2.711E-08	
SSE	1.199E-08	1.872E-08	4.866E-08	6.818E-08	7.496E-08	6.506E-08	5.393E-08	4.469E-08	3.749E-08	3.068E-08	2.589E-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	2.546E-08	1.607E-08	1.034E-08	5.852E-09	3.990E-09	2.955E-09	2.292E-09	1.851E-09	1.543E-09	1.314E-09	1.136E-09	
SSW	1.605E-08	1.330E-08	8.711E-09	5.053E-09	3.625E-09	2.733E-09	2.138E-09	1.739E-09	1.456E-09	1.245E-09	1.083E-09	
SW	1.226E-08	1.225E-08	8.322E-09	5.062E-09	3.891E-09	3.133E-09	2.626E-09	2.155E-09	1.817E-09	1.564E-09	1.369E-09	
WSW	1.592E-08	9.851E-09	6.820E-09	4.087E-09	2.738E-09	2.012E-09	1.567E-09	1.269E-09	1.058E-09	9.023E-10	7.827E-10	
W	1.762E-08	9.631E-09	6.863E-09	4.405E-09	3.187E-09	2.357E-09	1.841E-09	1.495E-09	1.249E-09	1.067E-09	9.273E-10	
WNW	2.714E-08	1.569E-08	1.086E-08	6.782E-09	4.737E-09	3.585E-09	2.866E-09	2.360E-09	1.985E-09	1.702E-09	1.483E-09	
NW	4.040E-08	2.332E-08	1.622E-08	1.008E-08	6.868E-09	5.110E-09	4.107E-09	3.376E-09	2.832E-09	2.425E-09	2.113E-09	
NNW	6.423E-08	3.740E-08	2.452E-08	1.429E-08	9.778E-09	7.300E-09	5.800E-09	4.776E-09	4.077E-09	3.513E-09	3.063E-09	
N	2.349E-08	1.522E-08	1.307E-08	1.038E-08	9.160E-09	7.503E-09	5.907E-09	4.813E-09	4.029E-09	3.446E-09	2.997E-09	
NNE	2.309E-08	3.215E-08	2.085E-08	1.197E-08	8.116E-09	6.015E-09	4.716E-09	3.843E-09	3.221E-09	2.757E-09	2.400E-09	
NE	1.474E-08	1.826E-08	1.176E-08	6.681E-09	4.493E-09	3.309E-09	2.601E-09	2.119E-09	1.772E-09	1.511E-09	1.310E-09	
ENE	8.252E-09	1.046E-08	6.903E-09	4.045E-09	2.775E-09	2.075E-09	1.719E-09	1.454E-09	1.220E-09	1.045E-09	9.107E-10	
E	1.426E-08	1.746E-08	1.141E-08	6.608E-09	4.502E-09	3.347E-09	2.630E-09	2.146E-09	1.843E-09	1.606E-09	1.397E-09	
ESE	2.105E-08	1.935E-08	1.254E-08	7.157E-09	4.823E-09	3.554E-09	2.772E-09	2.247E-09	1.875E-09	1.599E-09	1.386E-09	
SE	2.367E-08	1.423E-08	1.072E-08	7.415E-09	5.353E-09	4.174E-09	3.421E-09	2.898E-09	2.425E-09	2.072E-09	1.801E-09	
SSE	4.978E-08	2.675E-08	1.698E-08	9.460E-09	6.274E-09	4.571E-09	3.533E-09	2.844E-09	2.358E-09	2.000E-09	1.727E-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	5.011E-08	4.367E-08	3.073E-08	2.441E-08	2.659E-08	1.561E-08	6.021E-09	2.966E-09	1.860E-09	1.316E-09
SSW	1.600E-08	1.818E-08	1.703E-08	1.915E-08	1.707E-08	1.187E-08	5.231E-09	2.733E-09	1.745E-09	1.248E-09
SW	3.331E-08	5.167E-08	3.167E-08	1.901E-08	1.347E-08	1.051E-08	5.266E-09	3.132E-09	2.161E-09	1.567E-09
WSW	6.527E-08	9.118E-08	5.023E-08	2.806E-08	1.856E-08	9.852E-09	4.095E-09	2.028E-09	1.274E-09	9.043E-10
W	1.464E-07	1.148E-07	5.637E-08	3.181E-08	2.098E-08	1.018E-08	4.410E-09	2.372E-09	1.500E-09	1.069E-09
WNW	1.354E-07	1.448E-07	7.990E-08	4.780E-08	3.206E-08	1.609E-08	6.779E-09	3.604E-09	2.361E-09	1.705E-09
NW	9.800E-08	2.031E-07	1.220E-07	7.142E-08	4.766E-08	2.396E-08	1.002E-08	5.177E-09	3.377E-09	2.430E-09
NNW	6.532E-08	1.107E-07	1.224E-07	1.073E-07	7.564E-08	3.764E-08	1.456E-08	7.361E-09	4.803E-09	3.513E-09
N	7.925E-08	6.193E-08	4.689E-08	3.454E-08	2.639E-08	1.610E-08	1.060E-08	7.306E-09	4.827E-09	3.452E-09
NNE	5.169E-08	4.970E-08	3.815E-08	2.778E-08	2.270E-08	2.511E-08	1.223E-08	6.056E-09	3.855E-09	2.762E-09
NE	1.791E-08	2.790E-08	2.349E-08	1.747E-08	1.443E-08	1.459E-08	6.837E-09	3.342E-09	2.125E-09	1.514E-09
ENE	1.769E-08	1.921E-08	1.495E-08	1.075E-08	8.470E-09	8.389E-09	4.116E-09	2.119E-09	1.440E-09	1.047E-09
E	4.634E-08	3.810E-08	2.642E-08	1.850E-08	1.454E-08	1.406E-08	6.739E-09	3.368E-09	2.169E-09	1.599E-09
ESE	5.470E-08	5.745E-08	4.158E-08	2.888E-08	2.211E-08	1.670E-08	7.315E-09	3.580E-09	2.255E-09	1.602E-09
SE	5.635E-08	7.030E-08	5.289E-08	3.697E-08	2.713E-08	1.477E-08	7.233E-09	4.187E-09	2.867E-09	2.076E-09
SSE	5.068E-08	6.906E-08	5.320E-08	4.457E-08	5.311E-08	2.753E-08	9.715E-09	4.610E-09	2.856E-09	2.005E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 1995
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	1.742E-08	3.853E-08	5.467E-08	5.239E-08	4.559E-08	3.767E-08	3.092E-08	2.565E-08	2.161E-08	2.557E-08	2.838E-08	
SSW	1.027E-10	8.574E-09	1.725E-08	1.872E-08	1.890E-08	1.723E-08	1.513E-08	1.819E-08	2.029E-08	1.832E-08	1.665E-08	
SW	1.527E-09	1.166E-08	2.945E-08	4.693E-08	6.517E-08	4.354E-08	3.123E-08	2.369E-08	1.875E-08	1.534E-08	1.288E-08	
WSW	2.167E-09	2.359E-08	6.029E-08	8.964E-08	1.167E-07	7.199E-08	4.908E-08	3.587E-08	2.755E-08	2.197E-08	1.803E-08	
W	2.023E-08	9.701E-08	1.621E-07	1.587E-07	1.302E-07	8.046E-08	5.514E-08	4.052E-08	3.128E-08	2.506E-08	2.065E-08	
WNW	2.658E-08	9.367E-08	1.343E-07	1.566E-07	1.805E-07	1.111E-07	7.605E-08	5.914E-08	4.798E-08	3.827E-08	3.146E-08	
NW	1.999E-08	3.865E-08	7.485E-08	1.448E-07	2.805E-07	1.727E-07	1.183E-07	8.957E-08	7.095E-08	5.672E-08	4.669E-08	
NNW	2.237E-09	3.151E-08	6.512E-08	8.222E-08	1.140E-07	1.219E-07	1.242E-07	1.199E-07	1.139E-07	9.044E-08	7.405E-08	
N	4.214E-08	8.204E-08	8.534E-08	7.312E-08	6.298E-08	5.525E-08	4.765E-08	4.026E-08	3.445E-08	2.987E-08	2.622E-08	
NNE	2.636E-08	4.606E-08	5.299E-08	5.338E-08	5.230E-08	4.561E-08	3.849E-08	3.248E-08	2.769E-08	2.390E-08	2.090E-08	
NE	6.997E-11	5.289E-09	1.673E-08	2.504E-08	3.002E-08	2.755E-08	2.375E-08	2.027E-08	1.741E-08	1.510E-08	1.325E-08	
ENE	2.029E-09	1.252E-08	1.827E-08	1.979E-08	2.033E-08	1.790E-08	1.506E-08	1.262E-08	1.067E-08	9.134E-09	7.920E-09	
E	6.963E-09	3.931E-08	5.073E-08	4.646E-08	3.964E-08	3.253E-08	2.655E-08	2.192E-08	1.839E-08	1.569E-08	1.358E-08	
ESE	4.429E-09	3.298E-08	5.715E-08	6.361E-08	6.121E-08	5.132E-08	4.194E-08	3.450E-08	2.880E-08	2.442E-08	2.102E-08	
SE	3.686E-09	2.558E-08	5.558E-08	7.222E-08	7.587E-08	6.489E-08	5.341E-08	4.408E-08	3.687E-08	3.130E-08	2.696E-08	
SSE	1.199E-08	1.872E-08	4.862E-08	6.809E-08	7.481E-08	6.488E-08	5.373E-08	4.449E-08	3.730E-08	3.037E-08	2.585E-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	2.525E-08	1.586E-08	1.016E-08	5.701E-09	3.853E-09	2.828E-09	2.175E-09	1.741E-09	1.439E-09	1.215E-09	1.042E-09	
SSW	1.581E-08	1.301E-08	8.455E-09	4.835E-09	3.420E-09	2.543E-09	1.962E-09	1.574E-09	1.300E-09	1.096E-09	9.407E-10	
SW	1.212E-08	1.202E-08	8.109E-09	4.867E-09	3.689E-09	2.928E-09	2.419E-09	1.958E-09	1.629E-09	1.384E-09	1.195E-09	
WSW	1.570E-08	9.653E-09	6.641E-09	3.930E-09	2.600E-09	1.887E-09	1.451E-09	1.161E-09	9.566E-10	8.058E-10	6.907E-10	
W	1.741E-08	9.460E-09	6.702E-09	4.252E-09	3.042E-09	2.224E-09	1.717E-09	1.379E-09	1.139E-09	9.619E-10	8.263E-10	
WNW	2.687E-08	1.544E-08	1.063E-08	6.552E-09	4.520E-09	3.379E-09	2.667E-09	2.169E-09	1.802E-09	1.527E-09	1.315E-09	
NW	3.991E-08	2.287E-08	1.579E-08	9.669E-09	6.494E-09	4.763E-09	3.771E-09	3.055E-09	2.526E-09	2.133E-09	1.831E-09	
NNW	6.369E-08	3.693E-08	2.411E-08	1.392E-08	9.450E-09	6.996E-09	5.512E-09	4.502E-09	3.811E-09	3.256E-09	2.816E-09	
N	2.332E-08	1.507E-08	1.290E-08	1.068E-08	8.933E-09	7.272E-09	5.689E-09	4.607E-09	3.833E-09	3.259E-09	2.818E-09	
NNE	2.289E-08	3.174E-08	2.049E-08	1.167E-08	7.844E-09	5.766E-09	4.483E-09	3.623E-09	3.011E-09	2.557E-09	2.208E-09	
NE	1.459E-08	1.799E-08	1.153E-08	6.489E-09	4.322E-09	3.153E-09	2.456E-09	1.982E-09	1.642E-09	1.387E-09	1.192E-09	
ENE	8.135E-09	1.023E-08	6.698E-09	3.864E-09	2.610E-09	1.921E-09	1.565E-09	1.301E-09	1.074E-09	9.063E-10	7.774E-10	
E	1.411E-08	1.717E-08	1.117E-08	6.395E-09	4.311E-09	3.172E-09	2.466E-09	1.992E-09	1.694E-09	1.461E-09	1.258E-09	
ESE	2.093E-08	1.916E-08	1.236E-08	7.006E-09	4.686E-09	3.428E-09	2.654E-09	2.136E-09	1.769E-09	1.497E-09	1.289E-09	
SE	2.352E-08	1.409E-08	1.058E-08	7.258E-09	5.197E-09	4.017E-09	3.261E-09	2.735E-09	2.268E-09	1.922E-09	1.656E-09	
SSE	4.939E-08	2.643E-08	1.672E-08	9.240E-09	6.080E-09	4.396E-09	3.372E-09	2.693E-09	2.216E-09	1.865E-09	1.598E-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	5.007E-08	4.358E-08	3.062E-08	2.427E-08	2.639E-08	1.541E-08	5.870E-09	2.840E-09	1.750E-09	1.217E-09
SSW	1.597E-08	1.812E-08	1.691E-08	1.894E-08	1.683E-08	1.161E-08	5.011E-09	2.545E-09	1.581E-09	1.099E-09
SW	3.326E-08	5.150E-08	3.150E-08	1.886E-08	1.333E-08	1.030E-08	5.064E-09	2.927E-09	1.965E-09	1.387E-09
WSW	6.518E-08	9.083E-08	4.990E-08	2.780E-08	1.833E-08	9.657E-09	3.941E-09	1.903E-09	1.166E-09	8.078E-10
W	1.461E-07	1.144E-07	5.604E-08	3.155E-08	2.075E-08	1.000E-08	4.259E-09	2.239E-09	1.384E-09	9.642E-10
WNW	1.352E-07	1.444E-07	7.863E-08	4.747E-08	3.178E-08	1.584E-08	6.554E-09	3.399E-09	2.172E-09	1.530E-09
NW	9.789E-08	2.024E-07	1.213E-07	7.085E-08	4.715E-08	2.351E-08	9.618E-09	4.828E-09	3.058E-09	2.137E-09
NNW	6.525E-08	1.104E-07	1.219E-07	1.067E-07	7.507E-08	3.717E-08	1.420E-08	7.057E-09	4.527E-09	3.258E-09
N	7.918E-08	6.180E-08	4.672E-08	3.436E-08	2.623E-08	1.594E-08	1.040E-08	7.082E-09	4.622E-09	3.266E-09
NNE	5.162E-08	4.957E-08	3.799E-08	2.761E-08	2.253E-08	2.478E-08	1.193E-08	5.807E-09	3.636E-09	2.563E-09
NE	1.788E-08	2.782E-08	2.337E-08	1.735E-08	1.429E-08	1.436E-08	6.646E-09	3.186E-09	1.988E-09	1.390E-09
ENE	1.767E-08	1.913E-08	1.484E-08	1.064E-08	8.359E-09	8.194E-09	3.937E-09	1.962E-09	1.290E-09	9.683E-10
E	4.629E-08	3.800E-08	2.629E-08	1.837E-08	1.440E-08	1.382E-08	6.529E-09	3.193E-09	2.014E-09	1.455E-09
ESE	5.465E-08	5.735E-08	4.146E-08	2.876E-08	2.200E-08	1.653E-08	7.166E-09	3.454E-09	2.144E-09	1.500E-09
SE	5.631E-08	7.018E-08	5.274E-08	3.681E-08	2.697E-08	1.462E-08	7.079E-09	4.029E-09	2.708E-09	1.926E-09
SSE	5.063E-08	6.890E-08	5.301E-08	4.433E-08	5.274E-08	2.722E-08	9.497E-09	4.435E-09	2.706E-09	1.870E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 1995
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	1.742E-08	3.820E-08	5.369E-08	5.145E-08	4.470E-08	3.680E-08	3.008E-08	2.485E-08	2.086E-08	2.476E-08	2.756E-08		
SSW	1.027E-10	8.504E-09	1.696E-08	1.842E-08	1.861E-08	1.692E-08	1.483E-08	1.788E-08	2.000E-08	1.805E-08	1.641E-08		
SW	1.527E-09	1.156E-08	2.910E-08	4.661E-08	6.440E-08	4.272E-08	3.047E-08	2.301E-08	1.816E-08	1.481E-08	1.241E-08		
WSW	2.167E-09	2.339E-08	5.945E-08	8.872E-08	1.151E-07	7.042E-08	4.772E-08	3.470E-08	2.655E-08	2.110E-08	1.727E-08		
W	2.024E-08	9.560E-08	1.597E-07	1.558E-07	1.272E-07	7.824E-08	5.341E-08	3.912E-08	3.013E-08	2.409E-08	1.982E-08		
WNW	2.659E-08	9.292E-08	1.325E-07	1.544E-07	1.778E-07	1.089E-07	7.425E-08	5.765E-08	4.673E-08	3.717E-08	3.044E-08		
NW	2.000E-08	3.832E-08	7.407E-08	1.437E-07	2.782E-07	1.705E-07	1.164E-07	8.801E-08	6.966E-08	5.554E-08	4.556E-08		
NNW	2.237E-09	3.125E-08	6.404E-08	8.115E-08	1.127E-07	1.205E-07	1.229E-07	1.188E-07	1.129E-07	8.946E-08	7.299E-08		
N	4.214E-08	8.134E-08	8.371E-08	7.171E-08	6.179E-08	5.410E-08	4.654E-08	3.922E-08	3.347E-08	2.896E-08	2.537E-08		
NNE	2.636E-08	4.568E-08	5.212E-08	5.265E-08	5.154E-08	4.476E-08	3.759E-08	3.158E-08	2.682E-08	2.307E-08	2.011E-08		
NE	6.999E-11	5.248E-09	1.657E-08	2.490E-08	2.973E-08	2.713E-08	2.326E-08	1.976E-08	1.690E-08	1.461E-08	1.278E-08		
ENE	2.030E-09	1.242E-08	1.796E-08	1.952E-08	2.004E-08	1.756E-08	1.469E-08	1.224E-08	1.030E-08	8.773E-09	7.574E-09		
E	6.965E-09	3.897E-08	4.979E-08	4.559E-08	3.887E-08	3.177E-08	2.580E-08	2.120E-08	1.772E-08	1.506E-08	1.299E-08		
ESE	4.429E-09	3.271E-08	5.631E-08	6.282E-08	6.029E-08	5.026E-08	4.083E-08	3.340E-08	2.774E-08	2.342E-08	2.007E-08		
SE	3.687E-09	2.537E-08	5.498E-08	7.169E-08	7.496E-08	6.368E-08	5.206E-08	4.271E-08	3.552E-08	3.001E-08	2.573E-08		
SSE	1.199E-08	1.857E-08	4.816E-08	6.766E-08	7.397E-08	6.371E-08	5.241E-08	4.313E-08	3.595E-08	4.868E-08	5.673E-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	2.449E-08	1.515E-08	9.428E-09	4.992E-09	3.160E-09	2.200E-09	1.625E-09	1.255E-09	1.008E-09	8.326E-10	6.999E-10		
SSW	1.560E-08	1.274E-08	8.052E-09	4.339E-09	2.872E-09	2.071E-09	1.560E-09	1.226E-09	9.943E-10	8.253E-10	6.980E-10		
SW	1.170E-08	1.166E-08	7.657E-09	4.338E-09	3.070E-09	2.303E-09	1.850E-09	1.465E-09	1.195E-09	9.980E-10	8.483E-10		
WSW	1.501E-08	9.107E-09	6.116E-09	3.468E-09	2.218E-09	1.565E-09	1.176E-09	9.219E-10	7.460E-10	6.183E-10	5.223E-10		
W	1.668E-08	9.019E-09	6.351E-09	3.843E-09	2.609E-09	1.854E-09	1.397E-09	1.098E-09	8.910E-10	7.402E-10	6.265E-10		
WNW	2.590E-08	1.452E-08	9.720E-09	5.646E-09	3.630E-09	2.587E-09	1.980E-09	1.572E-09	1.279E-09	1.063E-09	8.995E-10		
NW	3.880E-08	2.170E-08	1.457E-08	8.428E-09	5.333E-09	3.727E-09	2.857E-09	2.264E-09	1.836E-09	1.524E-09	1.289E-09		
NNW	6.251E-08	3.527E-08	2.230E-08	1.204E-08	7.543E-09	5.226E-09	3.904E-09	3.072E-09	2.529E-09	2.111E-09	1.788E-09		
N	2.253E-08	1.448E-08	1.243E-08	1.037E-08	8.514E-09	6.640E-09	5.071E-09	4.020E-09	3.282E-09	2.743E-09	2.335E-09		
NNE	2.209E-08	3.083E-08	1.932E-08	1.046E-08	6.726E-09	4.767E-09	3.594E-09	2.827E-09	2.295E-09	1.907E-09	1.615E-09		
NE	1.410E-08	1.744E-08	1.085E-08	5.794E-09	3.667E-09	2.566E-09	1.936E-09	1.526E-09	1.238E-09	1.027E-09	8.673E-10		
ENE	7.777E-09	9.913E-09	6.328E-09	3.465E-09	2.203E-09	1.542E-09	1.204E-09	9.683E-10	7.815E-10	6.459E-10	5.440E-10		
E	1.352E-08	1.663E-08	1.051E-08	5.688E-09	3.588E-09	2.499E-09	1.854E-09	1.436E-09	1.176E-09	9.813E-10	8.249E-10		
ESE	1.996E-08	1.828E-08	1.147E-08	6.146E-09	3.863E-09	2.683E-09	1.986E-09	1.536E-09	1.227E-09	1.005E-09	8.396E-10		
SE	2.235E-08	1.318E-08	9.836E-09	6.727E-09	4.807E-09	3.722E-09	3.034E-09	2.551E-09	2.082E-09	1.739E-09	1.480E-09		
SSE	4.760E-08	2.474E-08	1.516E-08	7.959E-09	5.011E-09	3.494E-09	2.598E-09	2.019E-09	1.622E-09	1.335E-09	1.121E-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	4.925E-08	4.269E-08	2.978E-08	2.348E-08	2.559E-08	1.468E-08	5.163E-09	2.226E-09	1.266E-09	8.354E-10
SSW	1.573E-08	1.782E-08	1.661E-08	1.865E-08	1.660E-08	1.129E-08	4.512E-09	2.080E-09	1.233E-09	8.282E-10
SW	3.298E-08	5.081E-08	3.075E-08	1.827E-08	1.286E-08	9.889E-09	4.512E-09	2.327E-09	1.473E-09	1.001E-09
WSW	6.445E-08	8.938E-08	4.857E-08	2.680E-08	1.757E-08	9.090E-09	3.501E-09	1.583E-09	9.275E-10	6.206E-10
W	1.437E-07	1.118E-07	5.431E-08	3.040E-08	1.992E-08	9.537E-09	3.852E-09	1.873E-09	1.105E-09	7.428E-10
WNW	1.334E-07	1.420E-07	7.684E-08	4.621E-08	3.075E-08	1.492E-08	5.655E-09	2.622E-09	1.577E-09	1.066E-09
NW	9.709E-08	2.004E-07	1.195E-07	6.953E-08	4.601E-08	2.233E-08	8.416E-09	3.807E-09	2.270E-09	1.530E-09
NNW	6.436E-08	1.092E-07	1.206E-07	1.057E-07	7.399E-08	3.556E-08	1.232E-08	5.315E-09	3.103E-09	2.115E-09
N	7.785E-08	6.058E-08	4.563E-08	3.340E-08	2.539E-08	1.536E-08	1.000E-08	6.512E-09	4.039E-09	2.751E-09
NNE	5.092E-08	4.877E-08	3.710E-08	2.675E-08	2.172E-08	2.377E-08	1.077E-08	4.820E-09	2.844E-09	1.913E-09
NE	1.776E-08	2.750E-08	2.289E-08	1.684E-08	1.381E-08	1.377E-08	5.973E-09	2.608E-09	1.533E-09	1.030E-09
ENE	1.742E-08	1.882E-08	1.448E-08	1.027E-08	8.004E-09	7.845E-09	3.540E-09	1.583E-09	9.646E-10	6.483E-10
E	4.552E-08	3.721E-08	2.556E-08	1.770E-08	1.380E-08	1.322E-08	5.827E-09	2.531E-09	1.456E-09	9.809E-10
ESE	5.396E-08	5.639E-08	4.037E-08	2.771E-08	2.102E-08	1.562E-08	6.314E-09	2.719E-09	1.547E-09	1.010E-09
SE	5.583E-08	6.922E-08	5.142E-08	3.547E-08	2.574E-08	1.373E-08	6.564E-09	3.736E-09	2.511E-09	1.745E-09
SSE	5.025E-08	6.801E-08	5.171E-08	4.285E-08	5.096E-08	2.556E-08	8.249E-09	3.540E-09	2.033E-09	1.341E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 1995

CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

RELATIVE DEPOSITION PER UNIT AREA (THAN 27 AFFIXED POINTS BY DOWNWIND SECTOR)											
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	5.327E-09	4.221E-09	3.422E-09	2.267E-09	1.069E-09	6.465E-10	4.339E-10	3.104E-10	2.320E-10	1.909E-10	1.668E-10
SSW	8.105E-10	7.018E-10	6.594E-10	4.914E-10	2.548E-10	1.604E-10	1.098E-10	7.945E-11	7.300E-11	5.522E-11	4.324E-11
SW	1.346E-09	1.143E-09	1.041E-09	7.594E-10	6.601E-10	3.567E-10	2.205E-10	1.495E-10	1.080E-10	8.167E-11	6.395E-11
WSW	2.143E-09	1.763E-09	1.528E-09	1.926E-09	8.937E-10	4.801E-10	2.956E-10	2.000E-10	1.443E-10	1.090E-10	8.534E-11
W	1.616E-09	3.730E-09	2.950E-09	1.771E-09	7.923E-10	4.264E-10	2.628E-10	1.778E-10	1.283E-10	9.697E-11	7.590E-11
WNW	3.188E-09	2.482E-09	3.155E-09	2.039E-09	1.089E-09	5.534E-10	3.342E-10	2.287E-10	1.741E-10	1.394E-10	1.180E-10
NW	3.475E-09	2.816E-09	2.379E-09	2.984E-09	1.749E-09	8.719E-10	5.182E-10	3.472E-10	2.545E-10	2.003E-10	1.667E-10
NNW	3.994E-09	3.160E-09	2.553E-09	1.687E-09	1.272E-09	6.820E-10	4.223E-10	3.613E-10	2.815E-10	2.372E-10	2.118E-10
N	7.699E-09	5.969E-09	4.639E-09	2.954E-09	1.341E-09	7.976E-10	5.303E-10	3.775E-10	2.814E-10	2.170E-10	1.718E-10
NNE	3.229E-09	2.726E-09	2.465E-09	1.787E-09	9.075E-10	5.664E-10	3.864E-10	2.789E-10	2.093E-10	1.619E-10	1.282E-10
NE	5.710E-10	6.519E-10	8.315E-10	7.336E-10	4.234E-10	2.769E-10	1.933E-10	1.412E-10	1.066E-10	8.265E-11	6.545E-11
ENE	1.074E-09	8.978E-10	7.985E-10	5.717E-10	2.876E-10	1.788E-10	1.217E-10	8.777E-11	6.585E-11	5.092E-11	4.031E-11
E	3.467E-09	2.768E-09	2.275E-09	1.527E-09	7.277E-10	4.424E-10	2.976E-10	2.132E-10	1.595E-10	1.232E-10	9.750E-11
ESE	3.809E-09	3.435E-09	3.417E-09	2.646E-09	1.409E-09	8.959E-10	6.168E-10	4.473E-10	3.366E-10	2.606E-10	2.063E-10
SE	4.134E-09	3.996E-09	4.334E-09	3.532E-09	1.945E-09	1.252E-09	8.671E-10	6.307E-10	4.754E-10	3.682E-10	2.916E-10
SSE	3.057E-09	3.082E-09	3.501E-09	2.924E-09	1.635E-09	1.058E-09	7.348E-10	5.352E-10	4.036E-10	3.813E-10	3.504E-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	1.343E-10	9.294E-11	6.350E-11	3.703E-11	2.371E-11	1.726E-11	1.231E-11	9.196E-12	6.945E-12	5.548E-12	4.529E-12
SSW	3.511E-11	3.565E-11	2.629E-11	1.623E-11	9.540E-12	6.365E-12	4.561E-12	3.426E-12	2.689E-12	2.148E-12	1.753E-12
SW	5.177E-11	4.072E-11	2.861E-11	1.702E-11	1.088E-11	7.722E-12	5.204E-12	3.940E-12	3.063E-12	2.447E-12	1.997E-12
WSW	6.944E-11	4.085E-11	2.670E-11	1.762E-11	1.066E-11	7.151E-12	5.205E-12	3.908E-12	3.039E-12	2.427E-12	1.981E-12
W	6.106E-11	2.750E-11	2.865E-11	1.764E-11	1.176E-11	7.894E-12	5.657E-12	4.247E-12	3.302E-12	2.638E-12	2.153E-12
WNW	1.054E-10	6.908E-11	5.123E-11	3.186E-11	1.850E-11	1.244E-11	8.853E-12	6.649E-12	5.194E-12	4.149E-12	3.387E-12
NW	1.454E-10	9.070E-11	6.582E-11	4.120E-11	2.529E-11	1.690E-11	1.171E-11	8.791E-12	6.835E-12	5.460E-12	4.457E-12
NNW	1.972E-10	1.464E-10	1.139E-10	7.313E-11	4.741E-11	3.151E-11	1.912E-11	1.400E-11	1.074E-11	8.584E-12	7.006E-12
N	1.389E-10	6.643E-11	4.095E-11	2.213E-11	7.291E-11	4.044E-11	2.894E-11	2.176E-11	1.692E-11	1.352E-11	1.103E-11
NNE	1.035E-10	1.655E-10	1.020E-10	5.268E-11	3.212E-11	2.152E-11	1.539E-11	1.153E-11	8.954E-12	7.146E-12	5.829E-12
NE	5.275E-11	8.279E-11	5.221E-11	2.767E-11	1.699E-11	1.135E-11	8.130E-12	6.073E-12	4.748E-12	3.793E-12	3.096E-12
ENE	3.254E-11	3.248E-11	2.314E-11	1.393E-11	8.921E-12	5.973E-12	4.244E-12	2.848E-12	2.218E-12	1.775E-12	1.452E-12
E	7.876E-11	7.866E-11	5.625E-11	3.400E-11	2.185E-11	1.468E-11	1.046E-11	7.785E-12	6.003E-12	4.583E-12	3.735E-12
ESE	1.664E-10	1.493E-10	1.035E-10	6.088E-11	3.872E-11	2.592E-11	1.843E-11	1.370E-11	1.056E-11	8.400E-12	6.834E-12
SE	2.351E-10	1.117E-10	6.829E-11	3.620E-11	2.227E-11	1.540E-11	1.151E-11	1.783E-11	1.379E-11	1.100E-11	8.980E-12
SSE	2.911E-10	2.079E-10	1.268E-10	6.473E-11	3.932E-11	2.636E-11	1.888E-11	1.417E-11	1.102E-11	8.800E-12	7.185E-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	3.086E-09	1.147E-09	4.412E-10	2.387E-10	1.619E-10	8.904E-11	3.699E-11	1.700E-11	9.229E-12	5.584E-12
SSW	5.942E-10	2.654E-10	1.112E-10	6.807E-11	4.378E-11	3.137E-11	1.549E-11	6.490E-12	3.469E-12	2.162E-12
SW	9.385E-10	5.473E-10	2.284E-10	1.098E-10	6.469E-11	3.779E-11	1.686E-11	7.557E-12	3.967E-12	2.463E-12
WSW	1.757E-09	9.393E-10	3.065E-10	1.468E-10	8.647E-11	4.092E-11	1.655E-11	7.309E-12	3.948E-12	2.443E-12
W	2.599E-09	8.472E-10	2.724E-10	1.305E-10	7.664E-11	3.547E-11	1.747E-11	8.030E-12	4.290E-12	2.655E-12
WNW	2.509E-09	1.062E-09	3.505E-10	1.765E-10	1.197E-10	6.922E-11	3.023E-11	1.262E-11	6.724E-12	4.176E-12
NW	2.745E-09	1.634E-09	5.441E-10	2.603E-10	1.688E-10	9.181E-11	3.960E-11	1.706E-11	8.879E-12	5.496E-12
NNW	2.303E-09	1.102E-09	4.672E-10	2.874E-10	2.139E-10	1.432E-10	7.076E-11	3.079E-11	1.422E-11	8.640E-12
N	4.186E-09	1.458E-09	5.405E-10	2.843E-10	1.730E-10	7.120E-11	4.888E-11	4.451E-11	2.198E-11	1.361E-11
NNE	2.221E-09	9.513E-10	3.914E-10	2.111E-10	1.290E-10	1.235E-10	5.449E-11	2.189E-11	1.165E-11	7.194E-12
NE	7.481E-10	4.272E-10	1.948E-10	1.074E-10	6.584E-11	6.252E-11	2.838E-11	1.157E-11	6.156E-12	3.817E-12
ENE	7.198E-10	3.024E-10	1.234E-10	6.642E-11	4.058E-11	2.834E-11	1.375E-11	6.068E-12	3.007E-12	1.786E-12
E	2.052E-09	7.784E-10	3.025E-10	1.610E-10	9.816E-11	6.872E-11	3.355E-11	1.490E-11	7.870E-12	4.690E-12
ESE	3.078E-09	1.456E-09	6.234E-10	3.393E-10	2.076E-10	1.328E-10	6.051E-11	2.634E-11	1.386E-11	8.461E-12
SE	3.902E-09	1.990E-09	8.752E-10	4.790E-10	2.934E-10	1.198E-10	3.714E-11	1.568E-11	1.449E-11	1.108E-11
SSE	3.152E-09	1.665E-09	7.411E-10	4.327E-10	3.376E-10	1.904E-10	6.723E-11	2.682E-11	1.431E-11	8.858E-12

ERP ELEVATED STACK RELEASES - OCT-DEC 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q			D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	(PER SQ.METER)
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	5.451E-08	5.446E-08	5.346E-08	3.154E-09
A	SITE BOUNDARY	SSW	0.82	1327.	1.793E-08	1.790E-08	1.759E-08	6.098E-10
A	SITE BOUNDARY	SW	0.98	1569.	4.538E-08	4.532E-08	4.499E-08	7.909E-10
A	SITE BOUNDARY	WSW	0.93	1489.	8.153E-08	8.140E-08	8.055E-08	1.637E-09
A	SITE BOUNDARY	W	0.91	1468.	1.625E-07	1.622E-07	1.594E-07	2.097E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.514E-07	1.511E-07	1.490E-07	2.318E-09
A	SITE BOUNDARY	NW	0.81	1307.	9.002E-08	8.993E-08	8.517E-08	2.172E-09
A	SITE BOUNDARY	NNW	0.69	1106.	5.674E-08	5.670E-08	5.579E-08	2.664E-09
A	SITE BOUNDARY	N	0.67	1086.	8.417E-08	8.411E-08	8.265E-08	4.950E-09
A	SITE BOUNDARY	NNE	0.60	965.	4.768E-08	4.764E-08	4.699E-08	2.576E-09
A	SITE BOUNDARY	NE	0.62	1005.	1.007E-08	1.006E-08	9.955E-09	7.321E-10
A	SITE BOUNDARY	ENE	0.59	945.	1.452E-08	1.451E-08	1.432E-08	8.487E-10
A	SITE BOUNDARY	E	0.53	845.	4.098E-08	4.096E-08	4.055E-08	2.700E-09
A	SITE BOUNDARY	ESE	0.54	865.	3.650E-08	3.648E-08	3.610E-08	3.401E-09
A	SITE BOUNDARY	SE	0.65	1046.	4.143E-08	4.141E-08	4.094E-08	4.141E-09
A	SITE BOUNDARY	SSE	0.81	1307.	5.477E-08	5.471E-08	5.424E-08	3.411E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	6.139E-08	6.124E-08	6.067E-08	8.849E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	1.125E-07	1.122E-07	1.108E-07	1.202E-09
A	NEAR. RESIDENCE	W	1.00	1609.	1.591E-07	1.587E-07	1.558E-07	1.771E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	1.626E-07	1.621E-07	1.595E-07	9.343E-10
A	NEAR. RESIDENCE	NW	0.90	1448.	1.144E-07	1.143E-07	1.135E-07	3.355E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.213E-07	1.209E-07	1.195E-07	7.634E-10
A	NEAR. RESIDENCE	N	3.00	4828.	4.044E-08	4.026E-08	3.922E-08	3.775E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.610E-08	3.593E-08	3.503E-08	3.373E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.961E-08	1.952E-08	1.921E-08	2.310E-10
A	NEAR. RESIDENCE	E	1.80	2897.	3.542E-08	3.530E-08	3.453E-08	5.166E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	4.378E-08	4.366E-08	4.256E-08	6.613E-10
A	NEAREST COW	NNW	3.50	5633.	1.145E-07	1.139E-07	1.129E-07	2.814E-10
A	NEAREST GARDEN	SW	1.30	2092.	6.139E-08	6.124E-08	6.067E-08	8.849E-10
A	NEAREST GARDEN	WSW	1.80	2897.	8.652E-08	8.612E-08	8.449E-08	6.015E-10
A	NEAREST GARDEN	WNW	1.60	2575.	1.626E-07	1.621E-07	1.595E-07	9.343E-10
A	NEAREST GARDEN	NW	2.80	4506.	1.001E-07	9.949E-08	9.781E-08	4.028E-10
A	NEAREST GARDEN	NNW	1.90	3058.	1.213E-07	1.209E-07	1.195E-07	7.634E-10
A	NEAREST GARDEN	N	3.00	4828.	4.044E-08	4.026E-08	3.922E-08	3.775E-10
A	NEAREST GARDEN	ENE	1.70	2736.	1.961E-08	1.952E-08	1.921E-08	2.310E-10
A	NEAREST GARDEN	E	1.80	2897.	3.542E-08	3.530E-08	3.453E-08	5.166E-10
A	NEAREST GARDEN	ESE	2.40	3863.	4.378E-08	4.366E-08	4.256E-08	6.613E-10

Atmospheric Diffusion Estimates

Elevated Releases

July-December 1995

ERP ELEVATED STACK RELEASES - JUL-DEC 1995
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	9.164E-09	2.027E-08	2.878E-08	2.759E-08	2.403E-08	1.987E-08	1.633E-08	1.356E-08	1.143E-08	1.354E-08	1.504E-08		
SSW	5.403E-11	4.513E-09	9.084E-09	9.864E-09	9.976E-09	9.106E-09	8.010E-09	9.653E-09	1.079E-08	9.756E-09	8.882E-09		
SW	8.033E-10	6.134E-09	1.551E-08	2.472E-08	3.438E-08	2.300E-08	1.652E-08	1.254E-08	9.942E-09	8.142E-09	6.843E-09		
WSW	1.140E-09	1.241E-08	3.175E-08	7.23E-08	6.163E-08	3.806E-08	2.599E-08	1.902E-08	1.463E-08	1.168E-08	9.603E-09		
W	1.065E-08	5.109E-08	8.539E-08	8.366E-08	6.870E-08	4.252E-08	2.917E-08	2.146E-08	1.659E-08	1.330E-08	1.098E-08		
WNW	1.399E-08	4.932E-08	7.076E-08	8.254E-08	9.521E-08	5.865E-08	4.019E-08	3.129E-08	2.541E-08	2.029E-08	1.669E-08		
NW	1.052E-08	2.035E-08	3.984E-08	7.798E-08	1.517E-07	9.335E-08	6.395E-08	4.044E-08	3.839E-08	3.072E-08	2.531E-08		
NNW	4.245E-09	2.158E-08	4.117E-08	5.059E-08	6.757E-08	7.073E-08	7.096E-08	6.779E-08	6.388E-08	5.071E-08	4.151E-08		
N	2.438E-08	4.935E-08	4.946E-08	4.145E-08	3.504E-08	3.053E-08	2.629E-08	2.222E-08	1.904E-08	1.655E-08	1.456E-08		
NNE	1.387E-08	2.430E-08	2.874E-08	2.967E-08	2.952E-08	2.587E-08	2.190E-08	1.853E-08	1.583E-08	1.370E-08	1.201E-08		
NE	6.824E-11	4.534E-09	1.133E-08	1.502E-08	1.680E-08	1.513E-08	1.294E-08	1.101E-08	9.430E-09	8.171E-09	7.166E-09		
ENE	1.094E-09	7.910E-09	1.141E-08	1.163E-08	1.128E-08	9.752E-09	8.150E-09	6.809E-09	5.750E-09	4.919E-09	4.266E-09		
E	3.675E-09	2.124E-08	2.753E-08	2.513E-08	2.142E-08	1.762E-08	1.441E-08	1.193E-08	1.003E-08	8.573E-09	7.437E-09		
ESE	2.330E-09	1.738E-08	3.041E-08	3.407E-08	3.289E-08	2.758E-08	2.254E-08	1.854E-08	1.548E-08	1.313E-08	1.130E-08		
SE	1.939E-09	1.346E-08	2.925E-08	3.802E-08	3.997E-08	3.421E-08	2.817E-08	2.327E-08	1.947E-08	1.655E-08	1.426E-08		
SSE	6.308E-09	9.849E-09	2.559E-08	3.586E-08	3.943E-08	3.422E-08	2.836E-08	2.350E-08	1.972E-08	2.666E-08	3.101E-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	1.339E-08	8.450E-09	5.436E-09	3.078E-09	2.098E-09	1.554E-09	1.205E-09	9.733E-10	8.116E-10	6.911E-10	5.977E-10		
SSW	8.444E-09	6.998E-09	4.581E-09	2.658E-09	1.906E-09	1.437E-09	1.125E-09	9.149E-10	7.659E-10	6.549E-10	5.696E-10		
SW	6.451E-09	6.444E-09	4.377E-09	2.663E-09	2.047E-09	1.648E-09	1.381E-09	1.133E-09	9.557E-10	8.228E-10	7.200E-10		
WSW	8.371E-09	5.181E-09	3.587E-09	2.150E-09	1.440E-09	1.058E-09	8.241E-10	6.676E-10	5.567E-10	4.746E-10	4.117E-10		
W	9.266E-09	5.066E-09	3.610E-09	2.317E-09	1.676E-09	1.240E-09	9.682E-10	7.863E-10	6.572E-10	5.613E-10	4.877E-10		
WNW	1.428E-08	8.250E-09	5.713E-09	3.567E-09	2.491E-09	1.886E-09	1.507E-09	1.241E-09	1.044E-09	8.951E-10	7.802E-10		
NW	2.166E-08	1.248E-08	8.667E-09	5.381E-09	3.665E-09	2.726E-09	2.190E-09	1.800E-09	1.509E-09	1.293E-09	1.126E-09		
NNW	3.567E-08	2.066E-08	1.353E-08	7.865E-09	5.378E-09	4.011E-09	3.184E-09	2.620E-09	2.235E-09	1.924E-09	1.677E-09		
N	1.299E-08	8.500E-09	7.433E-09	6.347E-09	5.382E-09	4.412E-09	3.475E-09	2.833E-09	2.372E-09	2.030E-09	1.766E-09		
NNE	1.328E-08	1.890E-08	1.226E-08	7.044E-09	4.775E-09	3.539E-09	2.775E-09	2.261E-09	1.895E-09	1.622E-09	1.412E-09		
NE	7.868E-09	9.665E-09	6.221E-09	3.534E-09	2.376E-09	1.750E-09	1.376E-09	1.121E-09	9.373E-10	7.991E-10	6.931E-10		
ENE	4.376E-09	5.517E-09	3.639E-09	2.132E-09	1.463E-09	1.094E-09	9.061E-10	7.664E-10	6.431E-10	5.511E-10	4.803E-10		
E	7.748E-09	9.419E-09	6.154E-09	3.561E-09	2.425E-09	1.803E-09	1.416E-09	1.155E-09	9.919E-10	8.637E-10	7.513E-10		
ESE	1.124E-08	1.029E-08	6.662E-09	3.831E-09	2.560E-09	1.886E-09	1.470E-09	1.192E-09	9.942E-10	8.475E-10	7.350E-10		
SE	1.245E-08	7.483E-09	5.640E-09	3.900E-09	2.815E-09	2.195E-09	1.799E-09	1.524E-09	1.275E-09	1.090E-09	9.472E-10		
SSE	2.618E-08	1.407E-08	8.932E-09	4.975E-09	3.300E-09	2.404E-09	1.858E-09	1.496E-09	1.240E-09	1.052E-09	9.081E-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	2.636E-08	2.297E-08	1.616E-08	1.284E-08	1.398E-08	8.209E-09	3.167E-09	1.560E-09	9.780E-10	6.922E-10
SSW	8.415E-09	9.564E-09	8.959E-09	1.007E-08	8.979E-09	6.245E-09	2.751E-09	1.437E-09	9.181E-10	6.562E-10
SW	1.752E-08	2.717E-08	1.666E-08	1.000E-08	7.083E-09	5.527E-09	2.770E-09	1.647E-09	1.136E-09	8.241E-10
WSW	3.433E-08	4.796E-08	2.642E-08	1.476E-08	9.763E-09	5.182E-09	2.154E-09	1.066E-09	6.701E-10	4.756E-10
W	7.700E-08	6.039E-08	2.965E-08	1.673E-08	1.103E-08	5.352E-09	2.319E-09	1.248E-09	7.891E-10	5.625E-10
WNW	7.123E-08	7.615E-08	4.155E-08	2.514E-08	1.686E-08	8.461E-09	3.566E-09	2.896E-09	1.242E-09	8.967E-10
NW	5.246E-08	1.094E-07	6.559E-08	3.834E-08	2.556E-08	1.282E-08	5.349E-09	2.762E-09	1.800E-09	1.295E-09
NNW	4.100E-08	6.520E-08	6.963E-08	5.998E-08	4.207E-08	2.082E-08	8.017E-09	4.045E-09	2.635E-09	1.925E-09
N	4.588E-08	3.446E-08	2.579E-08	1.900E-08	1.457E-08	9.023E-09	6.159E-09	4.296E-09	2.841E-09	2.034E-09
NNE	2.816E-08	2.793E-08	2.161E-08	1.579E-08	1.298E-08	1.470E-08	7.195E-09	3.563E-09	2.268E-09	1.625E-09
NE	1.146E-08	1.566E-08	1.275E-08	9.401E-09	7.724E-09	7.735E-09	3.617E-09	1.768E-09	1.124E-09	8.008E-10
ENE	1.073E-08	1.068E-08	8.041E-09	5.736E-09	4.500E-09	4.429E-09	2.169E-09	1.117E-09	7.593E-10	5.521E-10
E	2.507E-08	2.056E-08	1.427E-08	1.002E-08	7.888E-09	7.597E-09	3.633E-09	1.814E-09	1.168E-09	8.601E-10
ESE	2.914E-08	3.079E-08	2.228E-08	1.546E-08	1.182E-08	8.889E-09	3.885E-09	1.899E-09	1.196E-09	8.493E-10
SE	2.964E-08	3.698E-08	2.782E-08	1.944E-08	1.427E-08	7.768E-09	3.804E-09	2.202E-09	1.508E-09	1.092E-09
SSE	2.666E-08	3.632E-08	2.798E-08	2.344E-08	2.793E-08	1.448E-08	5.110E-09	2.425E-09	1.502E-09	1.055E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

SECTOR	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)				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	9.162E-09	2.026E-08	2.875E-08	2.755E-08	2.398E-08	1.981E-08	1.626E-08	1.349E-08	1.137E-08	1.345E-08	1.493E-08			
SSW	5.401E-11	4.509E-09	9.072E-09	9.846E-09	9.942E-09	9.060E-09	7.956E-09	9.568E-09	1.067E-08	9.636E-09	8.758E-09			
SW	8.032E-10	6.131E-09	1.549E-08	2.468E-08	3.428E-08	2.290E-08	1.643E-08	1.246E-08	9.864E-09	8.069E-09	6.773E-09			
WSW	1.140E-09	1.241E-08	3.171E-08	4.714E-08	6.140E-08	3.787E-08	2.581E-08	1.886E-08	1.449E-08	1.156E-08	9.484E-09			
W	1.064E-08	5.102E-08	8.525E-08	8.348E-08	6.847E-08	4.232E-08	2.900E-08	2.131E-08	1.645E-08	1.318E-08	1.086E-08			
WNW	1.398E-08	4.927E-08	7.065E-08	8.239E-08	9.495E-08	5.843E-08	4.000E-08	3.111E-08	2.523E-08	2.013E-08	1.655E-08			
NW	1.052E-08	2.033E-08	3.981E-08	7.787E-08	1.512E-07	9.297E-08	6.361E-08	4.812E-08	3.809E-08	3.043E-08	2.504E-08			
NNW	4.244E-09	2.157E-08	4.114E-08	5.052E-08	6.743E-08	7.052E-08	7.068E-08	6.746E-08	6.352E-08	5.037E-08	4.120E-08			
N	2.438E-08	4.933E-08	4.942E-08	4.140E-08	3.497E-08	3.045E-08	2.620E-08	2.213E-08	1.895E-08	1.646E-08	1.447E-08			
NNE	1.386E-08	2.428E-08	2.870E-08	2.962E-08	2.945E-08	2.579E-08	2.181E-08	1.843E-08	1.574E-08	1.361E-08	1.192E-08			
NE	6.822E-11	4.531E-09	1.132E-08	1.500E-08	1.676E-08	1.507E-08	1.288E-08	1.094E-08	9.363E-09	8.105E-09	7.100E-09			
ENE	1.094E-09	7.906E-09	1.140E-08	1.161E-08	1.123E-08	9.699E-09	8.093E-09	6.751E-09	5.692E-09	4.863E-09	4.210E-09			
E	3.674E-09	2.123E-08	2.750E-08	2.510E-08	2.137E-08	1.755E-08	1.434E-08	1.186E-08	9.960E-09	8.503E-09	7.368E-09			
ESE	2.329E-09	1.737E-08	3.039E-08	3.403E-08	3.283E-08	2.751E-08	2.247E-08	1.848E-08	1.542E-08	1.307E-08	1.124E-08			
SE	1.939E-09	1.345E-08	2.923E-08	3.799E-08	3.990E-08	3.413E-08	2.809E-08	2.318E-08	1.939E-08	1.646E-08	1.418E-08			
SSE	6.307E-09	9.844E-09	2.557E-08	3.581E-08	3.935E-08	3.412E-08	2.826E-08	2.340E-08	1.962E-08	2.649E-08	3.079E-08			

BEARING	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)				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	1.328E-08	8.341E-09	5.343E-09	2.999E-09	2.027E-09	1.488E-09	1.144E-09	9.157E-10	7.569E-10	6.390E-10	5.478E-10			
SSW	8.313E-09	6.843E-09	4.447E-09	2.543E-09	1.799E-09	1.338E-09	1.032E-09	8.280E-10	6.837E-10	5.767E-10	4.948E-10			
SW	6.376E-09	6.321E-09	4.265E-09	2.560E-09	1.940E-09	1.540E-09	1.272E-09	1.030E-09	8.569E-10	7.279E-10	6.285E-10			
WSW	8.256E-09	5.077E-09	3.493E-09	2.067E-09	1.368E-09	9.923E-10	7.632E-10	6.107E-10	5.032E-10	4.238E-10	3.633E-10			
W	9.156E-09	4.976E-09	3.525E-09	2.237E-09	1.600E-09	1.170E-09	9.031E-10	7.251E-10	5.991E-10	5.059E-10	4.346E-10			
WNW	1.413E-08	8.120E-09	5.589E-09	3.446E-09	2.378E-09	1.777E-09	1.403E-09	1.141E-09	9.480E-10	8.030E-10	6.916E-10			
NW	2.140E-08	1.224E-08	8.442E-09	5.164E-09	3.467E-09	2.543E-09	2.013E-09	1.630E-09	1.348E-09	1.138E-09	9.774E-10			
NNW	3.538E-08	2.040E-08	1.330E-08	7.669E-09	5.200E-09	3.847E-09	3.029E-09	2.472E-09	2.091E-09	1.786E-09	1.544E-09			
N	1.290E-08	8.416E-09	7.338E-09	6.230E-09	5.252E-09	4.279E-09	3.350E-09	2.714E-09	2.260E-09	1.922E-09	1.663E-09			
NNE	1.317E-08	1.866E-08	1.205E-08	6.866E-09	4.616E-09	3.393E-09	2.638E-09	2.132E-09	1.772E-09	1.505E-09	1.299E-09			
NE	7.788E-09	9.524E-09	6.101E-09	3.433E-09	2.286E-09	1.668E-09	1.299E-09	1.048E-09	8.606E-10	7.337E-10	6.305E-10			
ENE	4.314E-09	5.395E-09	3.531E-09	2.037E-09	1.376E-09	1.013E-09	8.251E-10	6.861E-10	5.666E-10	4.781E-10	4.102E-10			
E	7.667E-09	9.269E-09	6.024E-09	3.449E-09	2.324E-09	1.710E-09	1.330E-09	1.074E-09	9.127E-10	7.869E-10	6.778E-10			
ESE	1.118E-08	1.018E-08	6.570E-09	3.721E-09	2.488E-09	1.819E-09	1.408E-09	1.133E-09	9.382E-10	7.939E-10	6.834E-10			
SE	1.237E-08	7.408E-09	5.563E-09	3.817E-09	2.733E-09	2.113E-09	1.715E-09	1.439E-09	1.193E-09	1.011E-09	8.710E-10			
SSE	2.598E-08	1.390E-08	8.793E-09	4.860E-09	3.198E-09	2.312E-09	1.773E-09	1.417E-09	1.166E-09	9.812E-10	8.406E-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	2.633E-08	2.292E-08	1.610E-08	1.277E-08	1.388E-08	8.106E-09	3.088E-09	1.494E-09	9.204E-10	6.402E-10
SSW	8.402E-09	9.529E-09	8.895E-09	9.962E-09	8.853E-09	6.105E-09	2.635E-09	1.338E-09	8.313E-10	5.781E-10
SW	1.750E-08	2.709E-08	1.657E-08	9.922E-09	7.010E-09	5.420E-09	2.663E-09	1.540E-09	1.033E-09	7.293E-10
WSW	3.428E-08	4.777E-08	2.625E-08	1.462E-08	9.643E-09	5.079E-09	2.073E-09	1.001E-09	6.133E-10	4.249E-10
W	7.685E-08	6.018E-08	2.948E-08	1.659E-08	1.092E-08	5.260E-09	2.240E-09	1.178E-09	7.279E-10	5.071E-10
WNW	7.112E-08	7.593E-08	4.175E-08	2.497E-08	1.671E-08	8.331E-09	3.447E-09	1.788E-09	1.142E-09	8.047E-10
NW	5.240E-08	1.090E-07	6.524E-08	3.804E-08	2.529E-08	1.259E-08	5.138E-09	2.577E-09	1.632E-09	1.141E-09
NNW	4.096E-08	6.505E-08	6.935E-08	1.964E-08	4.176E-08	2.057E-08	7.823E-09	3.880E-09	2.486E-09	1.787E-09
N	4.584E-08	3.439E-08	2.570E-08	1.891E-08	1.448E-08	8.933E-09	6.041E-09	4.167E-09	2.723E-09	1.926E-09
NNE	2.813E-08	2.786E-08	2.152E-08	1.570E-08	1.289E-08	1.450E-08	7.019E-09	3.417E-09	2.139E-09	1.508E-09
NE	1.145E-08	1.562E-08	1.269E-08	9.334E-09	7.652E-09	7.617E-09	3.511E-09	1.685E-09	1.052E-09	7.354E-10
ENE	1.071E-08	1.063E-08	7.985E-09	5.679E-09	4.442E-09	4.327E-09	2.075E-09	1.035E-09	6.803E-10	4.792E-10
E	2.504E-08	2.050E-08	1.420E-08	9.947E-09	7.815E-09	7.470E-09	3.521E-09	1.722E-09	1.085E-09	7.837E-10
ESE	2.911E-08	3.073E-08	2.222E-08	1.540E-08	1.176E-08	8.799E-09	3.806E-09	1.833E-09	1.137E-09	7.958E-10
SE	2.962E-08	3.691E-08	2.774E-08	1.936E-08	1.419E-08	7.691E-09	3.724E-09	2.119E-09	1.424E-09	1.013E-09
SSE	2.663E-08	3.624E-08	2.788E-08	2.332E-08	2.774E-08	1.432E-08	4.995E-09	2.333E-09	1.423E-09	9.838E-10

ERP ELEVATED STACK RELEASES - JUL-DEC 1995
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	9.163E-09	2.009E-08	2.824E-08	2.706E-08	2.351E-08	1.936E-08	1.582E-08	1.307E-08	1.097E-08	1.302E-08	1.450E-08	
SSW	5.402E-11	4.473E-09	8.920E-09	9.690E-09	9.786E-09	8.902E-09	7.801E-09	9.407E-09	1.052E-08	9.495E-09	8.632E-09	
SW	8.033E-10	6.080E-09	1.531E-08	2.451E-08	3.387E-08	2.247E-08	1.603E-08	1.210E-08	9.549E-09	7.790E-09	6.525E-09	
WSW	1.140E-09	1.230E-08	3.127E-08	4.667E-08	6.053E-08	3.704E-08	2.510E-08	1.825E-08	1.397E-08	1.110E-08	9.083E-09	
W	1.064E-08	5.028E-08	8.401E-08	8.195E-08	6.693E-08	4.115E-08	2.809E-08	2.058E-08	1.585E-08	1.267E-08	1.042E-08	
WNW	1.399E-08	4.887E-08	6.967E-08	8.123E-08	9.354E-08	5.726E-08	3.905E-08	3.032E-08	2.458E-08	1.955E-08	1.601E-08	
NW	1.052E-08	2.016E-08	3.940E-08	7.732E-08	1.500E-07	9.177E-08	6.260E-08	4.728E-08	3.739E-08	2.980E-08	2.444E-08	
NNW	4.244E-09	2.139E-08	4.045E-08	4.985E-08	6.665E-08	6.965E-08	6.986E-08	6.675E-08	6.291E-08	4.976E-08	4.055E-08	
N	2.438E-08	4.890E-08	4.847E-08	4.058E-08	3.429E-08	2.981E-08	2.558E-08	2.155E-08	1.841E-08	1.595E-08	1.460E-08	
NNE	1.387E-08	2.408E-08	2.825E-08	2.924E-08	2.904E-08	2.531E-08	2.130E-08	1.793E-08	1.526E-08	1.315E-08	1.148E-08	
NE	6.823E-11	4.495E-09	1.118E-08	1.486E-08	1.656E-08	1.482E-08	1.260E-08	1.065E-08	9.080E-09	7.832E-09	6.840E-09	
ENE	1.094E-09	7.839E-09	1.120E-08	1.142E-08	1.185E-08	9.499E-09	7.883E-09	6.541E-09	5.487E-09	4.666E-09	4.023E-09	
E	3.675E-09	2.105E-08	2.699E-08	2.462E-08	2.094E-08	1.714E-08	1.394E-08	1.147E-08	9.600E-09	8.165E-09	7.052E-09	
ESE	2.330E-09	1.723E-08	2.994E-08	3.361E-08	3.234E-08	2.695E-08	2.188E-08	1.789E-08	1.485E-08	1.253E-08	1.073E-08	
SE	1.939E-09	1.334E-08	2.892E-08	3.771E-08	3.943E-08	3.349E-08	2.738E-08	2.246E-08	1.868E-08	1.578E-08	1.353E-08	
SSE	6.308E-09	9.767E-09	2.533E-08	3.559E-08	3.891E-08	3.351E-08	2.756E-08	2.268E-08	1.891E-08	2.560E-08	2.984E-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	1.288E-08	7.968E-09	4.959E-09	2.626E-09	1.662E-09	1.157E-09	8.545E-10	6.601E-10	5.301E-10	4.379E-10	3.681E-10	
SSW	8.203E-09	6.702E-09	4.235E-09	2.282E-09	1.511E-09	1.089E-09	8.206E-10	6.47E-10	5.230E-10	4.341E-10	3.671E-10	
SW	6.152E-09	6.132E-09	4.028E-09	2.282E-09	1.615E-09	1.212E-09	9.733E-10	8.07E-10	6.288E-10	5.249E-10	4.462E-10	
WSW	7.897E-09	4.790E-09	3.217E-09	1.824E-09	1.166E-09	8.233E-10	6.185E-10	4.849E-10	3.924E-10	3.252E-10	2.747E-10	
W	8.775E-09	4.744E-09	3.341E-09	2.021E-09	1.372E-09	9.751E-10	7.347E-10	5.777E-10	4.687E-10	3.893E-10	3.295E-10	
NNW	1.362E-08	7.636E-09	5.112E-09	2.970E-09	1.909E-09	1.361E-09	1.041E-09	8.268E-10	6.726E-10	5.589E-10	4.731E-10	
NW	2.080E-08	1.161E-08	7.787E-09	4.500E-09	2.848E-09	1.990E-09	1.525E-09	1.208E-09	9.801E-10	8.136E-10	6.880E-10	
NNW	3.467E-08	1.946E-08	1.229E-08	6.626E-09	4.148E-09	2.873E-09	2.145E-09	1.687E-09	1.388E-09	1.158E-09	9.803E-10	
N	1.246E-08	8.091E-09	7.081E-09	6.065E-09	5.013E-09	3.911E-09	2.988E-09	2.370E-09	1.936E-09	1.619E-09	1.378E-09	
NNE	1.272E-08	1.815E-08	1.137E-08	6.156E-09	3.953E-09	2.799E-09	2.108E-09	1.657E-09	1.344E-09	1.116E-09	9.442E-10	
NE	7.521E-09	9.230E-09	5.739E-09	3.063E-09	1.939E-09	1.357E-09	1.024E-09	8.068E-10	6.547E-10	5.428E-10	4.586E-10	
ENE	4.122E-09	5.227E-09	3.335E-09	1.826E-09	1.161E-09	8.131E-10	6.349E-10	5.105E-10	4.120E-10	3.406E-10	2.869E-10	
E	7.350E-09	8.976E-09	5.673E-09	3.067E-09	1.934E-09	1.346E-09	9.984E-10	7.733E-10	6.325E-10	5.270E-10	4.437E-10	
ESE	1.066E-08	9.709E-09	6.090E-09	3.262E-09	2.050E-09	1.424E-09	1.054E-09	8.153E-10	6.513E-10	5.334E-10	4.455E-10	
SE	1.176E-08	6.934E-09	5.173E-09	3.538E-09	2.528E-09	1.958E-09	1.596E-09	1.342E-09	1.095E-09	9.149E-10	7.782E-10	
SSE	2.503E-08	1.301E-08	7.973E-09	4.186E-09	2.636E-09	1.838E-09	1.366E-09	1.062E-09	8.529E-10	7.022E-10	5.895E-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	2.591E-08	2.245E-08	1.566E-08	1.235E-08	1.346E-08	7.723E-09	2.716E-09	1.171E-09	6.661E-10	4.394E-10
SSW	8.274E-09	9.372E-09	8.737E-09	9.811E-09	8.729E-09	5.939E-09	2.373E-09	1.094E-09	6.487E-10	4.356E-10
SW	1.735E-08	2.673E-08	1.618E-08	9.609E-09	6.762E-09	5.201E-09	2.373E-09	1.224E-09	7.745E-10	5.265E-10
WSW	3.390E-08	4.701E-08	2.555E-08	1.410E-08	9.241E-09	4.781E-09	1.841E-09	8.329E-10	4.878E-10	3.264E-10
W	7.560E-08	5.881E-08	2.857E-08	1.599E-08	1.048E-08	5.016E-09	2.026E-09	9.849E-10	5.810E-10	3.907E-10
WNW	7.019E-08	7.468E-08	4.042E-08	2.431E-08	1.618E-08	7.845E-09	2.975E-09	1.379E-09	8.293E-10	5.608E-10
NW	5.198E-08	1.080E-07	6.425E-08	3.733E-08	2.468E-08	1.195E-08	4.496E-09	2.033E-09	1.212E-09	8.164E-10
NNW	4.039E-08	6.425E-08	6.856E-08	5.900E-08	4.110E-08	1.965E-08	6.783E-09	2.922E-09	1.704E-09	1.160E-09
N	4.506E-08	3.370E-08	2.510E-08	1.837E-08	1.401E-08	8.613E-09	5.823E-09	3.836E-09	2.382E-09	1.624E-09
NNE	2.776E-08	2.743E-08	2.102E-08	1.522E-08	1.243E-08	1.393E-08	6.336E-09	2.830E-09	1.667E-09	1.120E-09
NE	1.133E-08	1.541E-08	1.241E-08	9.053E-09	7.386E-09	7.299E-09	3.158E-09	1.379E-09	8.108E-10	5.447E-10
ENE	1.055E-08	1.044E-08	7.777E-09	5.475E-09	4.250E-09	4.141E-09	1.866E-09	8.345E-10	5.085E-10	3.419E-10
E	2.462E-08	2.007E-08	1.381E-08	9.589E-09	7.492E-09	7.146E-09	3.142E-09	1.364E-09	7.840E-10	5.277E-10
ESE	2.875E-08	3.022E-08	2.163E-08	1.483E-08	1.124E-08	8.312E-09	3.352E-09	1.443E-09	8.210E-10	5.358E-10
SE	2.936E-08	3.641E-08	2.705E-08	1.866E-08	1.354E-08	7.223E-09	3.453E-09	1.965E-09	1.320E-09	9.176E-10
SSE	2.643E-08	3.577E-08	2.720E-08	2.254E-08	2.680E-08	1.344E-08	4.339E-09	1.862E-09	1.069E-09	7.051E-10

ERP ELEVATED STACK RELEASES - JUL-DEC 1995

CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION

FROM SITE

	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.802E-09	2.220E-09	1.800E-09	1.193E-09	5.621E-10	3.401E-10	2.282E-10	1.633E-10	1.220E-10	1.004E-10	8.774E-11
SSW	4.263E-10	3.691E-10	3.468E-10	2.585E-10	1.340E-10	8.434E-11	5.778E-11	4.179E-11	3.839E-11	2.905E-11	2.274E-11
SW	7.081E-10	6.010E-10	5.477E-10	3.994E-10	3.472E-10	1.876E-10	1.159E-10	7.863E-11	5.680E-11	4.296E-11	3.363E-11
WSW	1.127E-09	9.274E-10	8.035E-10	1.013E-09	4.701E-10	2.525E-10	1.555E-10	1.052E-10	7.588E-11	5.734E-11	4.488E-11
W	8.498E-10	1.962E-09	1.551E-09	9.315E-10	4.167E-10	2.243E-10	1.382E-10	9.354E-11	6.749E-11	5.100E-11	3.992E-11
WNW	1.677E-09	1.306E-09	1.659E-09	1.072E-09	5.726E-10	2.911E-10	1.758E-10	1.263E-10	9.158E-11	7.330E-11	6.208E-11
NW	1.828E-09	1.486E-09	1.260E-09	1.594E-09	9.365E-10	4.669E-10	2.776E-10	1.862E-10	1.367E-10	1.078E-10	8.990E-11
NNW	2.798E-09	2.199E-09	1.754E-09	1.145E-09	8.471E-10	4.535E-10	2.803E-10	2.347E-10	1.799E-10	1.490E-10	1.307E-10
N	4.469E-09	3.466E-09	2.696E-09	1.718E-09	7.806E-10	4.644E-10	3.088E-10	2.199E-10	1.639E-10	1.264E-10	1.001E-10
NNE	1.704E-09	1.468E-09	1.369E-09	1.015E-09	5.244E-10	3.295E-10	2.255E-10	1.630E-10	1.225E-10	9.478E-11	7.505E-11
NE	5.772E-10	5.448E-10	5.746E-10	4.608E-10	2.513E-10	1.611E-10	1.114E-10	8.096E-11	6.099E-11	4.724E-11	3.740E-11
ENE	8.412E-10	6.699E-10	5.481E-10	3.663E-10	1.739E-10	1.056E-10	7.097E-11	5.082E-11	3.800E-11	2.934E-11	2.323E-11
E	1.962E-09	1.559E-09	1.270E-09	8.452E-10	4.000E-10	2.424E-10	1.628E-10	1.165E-10	8.712E-11	6.726E-11	5.325E-11
ESE	2.006E-09	1.824E-09	1.834E-09	1.429E-09	7.648E-10	4.870E-10	3.356E-10	2.434E-10	1.832E-10	1.419E-10	1.123E-10
SE	2.174E-09	2.102E-09	2.280E-09	1.858E-09	1.023E-09	6.584E-10	4.561E-10	3.317E-10	2.500E-10	1.937E-10	1.534E-10
SSE	1.608E-09	1.621E-09	1.841E-09	1.538E-09	8.602E-10	5.565E-10	3.865E-10	2.815E-10	2.123E-10	2.006E-10	1.843E-10

DIRECTION

FROM SITE

	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	7.062E-11	4.889E-11	3.340E-11	1.948E-11	1.247E-11	9.077E-12	6.476E-12	4.837E-12	3.653E-12	2.918E-12	2.382E-12
SSW	1.847E-11	1.875E-11	1.383E-11	8.535E-12	5.018E-12	3.348E-12	2.399E-12	1.802E-12	1.414E-12	1.130E-12	9.220E-13
SW	2.723E-11	2.142E-11	1.505E-11	8.951E-12	5.721E-12	4.062E-12	2.737E-12	2.072E-12	1.611E-12	1.287E-12	1.050E-12
WSW	3.652E-11	2.149E-11	1.404E-11	9.269E-12	5.609E-12	3.761E-12	2.738E-12	2.056E-12	1.598E-12	1.277E-12	1.042E-12
W	3.211E-11	1.446E-11	1.507E-11	9.276E-12	6.185E-12	4.152E-12	2.975E-12	2.234E-12	1.737E-12	1.388E-12	1.133E-12
WNW	5.544E-11	3.634E-11	2.694E-11	1.676E-11	9.732E-12	6.541E-12	4.657E-12	3.497E-12	2.732E-12	2.182E-12	1.781E-12
NW	7.863E-11	4.938E-11	3.594E-11	2.243E-11	1.376E-11	9.195E-12	6.379E-12	4.790E-12	3.724E-12	2.975E-12	2.428E-12
NNW	1.198E-10	8.562E-11	6.570E-11	4.181E-11	2.708E-11	1.804E-11	1.119E-11	8.196E-12	6.299E-12	5.032E-12	4.108E-12
N	8.009E-11	3.869E-11	2.385E-11	1.289E-11	4.234E-11	2.350E-11	1.684E-11	1.265E-11	9.834E-12	7.856E-12	6.413E-12
NNE	6.055E-11	9.681E-11	5.989E-11	3.107E-11	1.896E-11	1.270E-11	9.078E-12	6.798E-12	5.274E-12	4.206E-12	3.429E-12
NE	3.016E-11	4.522E-11	2.848E-11	1.507E-11	9.248E-12	6.180E-12	4.425E-12	3.306E-12	2.584E-12	2.064E-12	1.685E-12
ENE	1.877E-11	1.790E-11	1.268E-11	7.611E-12	4.889E-12	3.289E-12	2.348E-12	1.574E-12	1.225E-12	9.804E-13	8.018E-13
E	4.302E-11	4.395E-11	3.158E-11	1.917E-11	1.233E-11	8.281E-12	5.898E-12	4.388E-12	3.382E-12	2.557E-12	2.084E-12
ESE	9.060E-11	8.020E-11	5.544E-11	3.250E-11	2.065E-11	1.382E-11	9.832E-12	7.312E-12	5.640E-12	4.486E-12	3.651E-12
SE	1.237E-10	5.873E-11	3.592E-11	1.904E-11	1.171E-11	8.099E-12	6.056E-12	4.378E-12	3.254E-12	2.578E-12	2.078E-12
SSE	1.531E-10	1.093E-10	6.670E-11	3.404E-11	2.068E-11	1.386E-11	9.931E-12	7.454E-12	5.794E-12	4.629E-12	3.779E-12

RELATIVE DEPOSITION PER UNIT AREA (M**2) BY DOWNWIND SECTORS

SEGMENT BOUNDARIES IN MILES

DIRECTION

FROM SITE

	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.623E-09	6.035E-10	2.321E-10	1.256E-10	8.515E-11	4.683E-11	1.946E-11	8.942E-12	4.854E-12	2.937E-12
SSW	3.125E-10	1.396E-10	5.846E-11	3.580E-11	2.303E-11	1.650E-11	8.148E-12	3.413E-12	1.825E-12	1.137E-12
SW	4.936E-10	2.879E-10	1.201E-10	5.776E-11	3.402E-11	1.988E-11	8.870E-12	3.974E-12	2.087E-12	1.295E-12
WSW	9.242E-10	4.940E-10	2.612E-10	7.719E-11	4.548E-11	2.152E-11	8.703E-12	3.844E-12	2.076E-12	1.285E-12
W	1.367E-09	4.456E-10	1.433E-10	6.865E-11	4.031E-11	1.866E-11	9.190E-12	4.223E-12	2.256E-12	1.397E-12
WNW	1.320E-09	5.585E-10	1.843E-10	9.282E-11	6.295E-11	3.641E-11	1.590E-11	6.638E-12	3.537E-12	2.197E-12
NW	1.459E-09	8.740E-10	2.915E-10	1.398E-10	9.102E-11	4.991E-11	2.158E-11	9.286E-12	4.838E-12	2.994E-12
NNW	1.582E-09	7.385E-10	3.083E-10	1.838E-10	1.321E-10	8.437E-11	4.057E-11	1.771E-11	8.329E-12	5.065E-12
N	2.432E-09	8.483E-10	3.147E-10	1.656E-10	1.008E-10	4.147E-11	2.841E-11	2.586E-11	1.277E-11	7.908E-12
NNE	1.234E-09	5.468E-10	2.283E-10	1.235E-10	7.553E-11	7.234E-11	3.209E-11	1.292E-11	6.869E-12	4.234E-12
NE	5.174E-10	2.578E-10	1.125E-10	6.146E-11	3.764E-11	3.443E-11	1.546E-11	6.296E-12	3.351E-12	2.078E-12
ENE	4.943E-10	1.863E-10	7.214E-11	3.836E-11	2.339E-11	1.577E-11	7.527E-12	3.339E-12	1.662E-12	9.868E-13
E	1.145E-09	4.289E-10	1.655E-10	8.796E-11	5.361E-11	3.825E-11	1.889E-11	8.408E-12	4.436E-12	2.627E-12
ESE	1.652E-09	7.889E-10	3.391E-10	1.847E-10	1.130E-10	7.151E-11	3.233E-11	1.405E-11	7.395E-12	4.519E-12
SE	2.053E-09	1.046E-09	4.603E-10	2.519E-10	1.543E-10	6.302E-11	1.953E-11	8.246E-12	7.620E-12	5.827E-12
SSE	1.658E-09	8.758E-10	3.898E-10	2.276E-10	1.776E-10	1.001E-10	3.536E-11	1.411E-11	7.529E-12	4.659E-12

ERP ELEVATED STACK RELEASES - JUL-DEC 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q (PER SQ.METER)
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	2.867E-08	2.864E-08	2.812E-08	1.659E-09
A	SITE BOUNDARY	SSW	0.82	1327.	9.428E-09	9.414E-09	9.254E-09	3.207E-10
A	SITE BOUNDARY	SW	0.98	1569.	2.387E-08	2.384E-08	2.366E-08	4.160E-10
A	SITE BOUNDARY	WSW	0.93	1489.	4.288E-08	4.282E-08	4.236E-08	8.610E-10
A	SITE BOUNDARY	W	0.91	1468.	8.545E-08	8.529E-08	8.384E-08	1.103E-09
A	SITE BOUNDARY	WNW	0.94	1509.	7.961E-08	7.947E-08	7.836E-08	1.219E-09
A	SITE BOUNDARY	NW	0.81	1307.	4.803E-08	4.798E-08	4.759E-08	1.152E-09
A	SITE BOUNDARY	NNW	0.69	1106.	3.621E-08	3.618E-08	3.559E-08	1.837E-09
A	SITE BOUNDARY	N	0.67	1086.	4.922E-08	4.919E-08	4.833E-08	2.876E-09
A	SITE BOUNDARY	NNE	0.60	965.	2.534E-08	2.532E-08	2.498E-08	1.404E-09
A	SITE BOUNDARY	NE	0.62	1005.	7.638E-09	7.633E-09	7.540E-09	5.509E-10
A	SITE BOUNDARY	ENE	0.59	945.	9.281E-09	9.275E-09	9.151E-09	6.164E-10
A	SITE BOUNDARY	E	0.53	845.	2.216E-08	2.215E-08	2.193E-08	1.519E-09
A	SITE BOUNDARY	ESE	0.54	865.	1.925E-08	1.923E-08	1.904E-08	1.809E-09
A	SITE BOUNDARY	SE	0.65	1046.	2.179E-08	2.178E-08	2.153E-08	2.178E-09
A	SITE BOUNDARY	SSE	0.81	1307.	2.881E-08	2.878E-08	2.853E-08	1.794E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	3.229E-08	3.221E-08	3.191E-08	4.654E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	5.920E-08	5.903E-08	5.829E-08	6.324E-10
A	NEAR. RESIDENCE	W	1.00	1609.	8.366E-08	8.348E-08	8.195E-08	9.315E-10
A	NEAR. RESIDENCE	WNW	1.60	2575.	8.550E-08	8.525E-08	8.388E-08	4.914E-10
A	NEAR. RESIDENCE	NW	0.90	1448.	6.131E-08	6.124E-08	6.083E-08	1.794E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	7.044E-08	7.025E-08	6.938E-08	5.077E-10
A	NEAR. RESIDENCE	N	3.00	4828.	2.222E-08	2.213E-08	2.155E-08	2.199E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	2.046E-08	2.037E-08	1.987E-08	1.970E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.073E-08	1.068E-08	1.049E-08	1.374E-10
A	NEAR. RESIDENCE	E	1.80	2897.	1.910E-08	1.903E-08	1.862E-08	2.831E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.346E-08	2.340E-08	2.281E-08	3.597E-10
A	NEAREST COW	NNW	3.50	5633.	6.387E-08	6.351E-08	6.290E-08	1.799E-10
A	NEAREST GARDEN	SW	1.30	2092.	3.229E-08	3.221E-08	3.191E-08	4.654E-10
A	NEAREST GARDEN	WSW	1.80	2897.	4.551E-08	4.530E-08	4.444E-08	3.164E-10
A	NEAREST GARDEN	WNW	1.60	2575.	8.550E-08	8.525E-08	8.388E-08	4.914E-10
A	NEAREST GARDEN	NW	2.80	4506.	5.380E-08	5.347E-08	5.257E-08	2.159E-10
A	NEAREST GARDEN	NNW	1.90	3058.	7.044E-08	7.025E-08	6.938E-08	5.077E-10
A	NEAREST GARDEN	N	3.00	4828.	2.222E-08	2.213E-08	2.155E-08	2.199E-10
A	NEAREST GARDEN	ENE	1.70	2736.	1.073E-08	1.068E-08	1.049E-08	1.374E-10
A	NEAREST GARDEN	E	1.80	2897.	1.910E-08	1.903E-08	1.862E-08	2.831E-10
A	NEAREST GARDEN	ESE	2.40	3863.	2.346E-08	2.340E-08	2.281E-08	3.597E-10

Atmospheric Diffusion Estimates

Elevated Releases

January-December 1995

ERP ELEVATED STACK RELEASES - JAN-DEC 1995
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	2.118E-08	4.118E-08	4.981E-08	4.382E-08	3.517E-08	2.786E-08	2.224E-08	1.808E-08	1.500E-08	1.682E-08	1.804E-08
SSW	8.382E-09	1.471E-08	1.921E-08	1.980E-08	1.925E-08	1.662E-08	1.391E-08	1.511E-08	1.566E-08	1.382E-08	1.236E-08
SW	3.843E-09	1.858E-08	3.037E-08	4.087E-08	4.930E-08	3.193E-08	2.242E-08	1.672E-08	1.305E-08	1.054E-08	8.744E-09
WSW	1.617E-09	1.304E-08	2.899E-08	4.184E-08	5.876E-08	3.693E-08	2.558E-08	1.896E-08	1.476E-08	1.192E-08	9.901E-09
W	1.619E-08	4.579E-08	7.478E-08	7.360E-08	6.123E-08	3.857E-08	2.691E-08	2.011E-08	1.577E-08	1.281E-08	1.069E-08
WNW	1.308E-08	5.739E-08	9.349E-08	1.058E-07	1.069E-07	6.432E-08	4.338E-08	3.312E-08	2.654E-08	2.109E-08	1.727E-08
NW	1.270E-08	2.931E-08	6.826E-08	1.275E-07	1.998E-07	1.185E-07	7.925E-08	5.862E-08	4.561E-08	3.612E-08	2.951E-08
NNW	6.159E-09	2.215E-08	4.040E-08	5.124E-08	6.749E-08	6.739E-08	6.432E-08	5.947E-08	5.518E-08	4.373E-08	3.576E-08
N	1.505E-08	3.984E-08	4.369E-08	3.729E-08	3.087E-08	2.622E-08	2.213E-08	1.843E-08	1.561E-08	1.342E-08	1.170E-08
NNE	1.032E-08	2.931E-08	3.658E-08	3.323E-08	2.875E-08	2.415E-08	2.013E-08	1.694E-08	1.445E-08	1.251E-08	1.097E-08
NE	7.615E-10	1.011E-08	1.818E-08	1.919E-08	1.862E-08	1.632E-08	1.390E-08	1.184E-08	1.018E-08	8.851E-09	7.791E-09
ENE	5.504E-10	4.406E-09	7.234E-09	8.290E-09	8.842E-09	7.910E-09	6.734E-09	5.700E-09	4.863E-09	4.197E-09	3.667E-09
E	1.823E-09	1.066E-08	1.574E-08	1.662E-08	1.598E-08	1.358E-08	1.123E-08	9.331E-09	7.859E-09	6.720E-09	5.829E-09
ESE	1.872E-09	1.404E-08	2.464E-08	2.634E-08	2.516E-08	2.113E-08	1.732E-08	1.429E-08	1.197E-08	1.019E-08	8.796E-09
SE	4.003E-09	1.929E-08	3.107E-08	3.655E-08	3.730E-08	3.200E-08	2.648E-08	2.196E-08	1.843E-08	1.570E-08	1.355E-08
SSE	1.051E-08	3.348E-08	4.962E-08	5.298E-08	5.013E-08	4.192E-08	3.428E-08	2.824E-08	2.361E-08	3.182E-08	3.717E-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	1.602E-08	1.076E-08	6.997E-09	4.024E-09	2.843E-09	2.165E-09	1.691E-09	1.373E-09	1.159E-09	9.973E-10	8.660E-10
SSW	1.160E-08	9.581E-09	6.261E-09	3.624E-09	2.608E-09	1.969E-09	1.539E-09	1.251E-09	1.047E-09	8.946E-10	7.777E-10
SW	7.934E-09	6.189E-09	4.084E-09	2.394E-09	1.743E-09	1.355E-09	1.105E-09	8.996E-10	7.536E-10	6.450E-10	5.615E-10
WSW	8.840E-09	6.300E-09	4.757E-09	3.149E-09	2.148E-09	1.601E-09	1.262E-09	1.032E-09	8.671E-10	7.443E-10	6.496E-10
W	9.116E-09	5.189E-09	3.956E-09	2.837E-09	2.247E-09	1.692E-09	1.332E-09	1.089E-09	9.158E-10	7.864E-10	6.865E-10
WNW	1.470E-08	8.383E-09	5.774E-09	3.598E-09	2.513E-09	1.903E-09	1.523E-09	1.255E-09	1.056E-09	9.045E-10	7.880E-10
NW	2.500E-08	1.391E-08	9.461E-09	5.731E-09	3.871E-09	2.861E-09	2.279E-09	1.862E-09	1.557E-09	1.330E-09	1.155E-09
NNW	3.069E-08	1.776E-08	1.161E-08	6.737E-09	4.599E-09	3.427E-09	2.720E-09	2.239E-09	1.913E-09	1.650E-09	1.437E-09
N	1.035E-08	6.564E-09	5.500E-09	4.440E-09	3.679E-09	2.995E-09	2.354E-09	1.916E-09	1.603E-09	1.370E-09	1.190E-09
NNE	1.227E-08	1.907E-08	1.242E-08	7.176E-09	4.888E-09	3.636E-09	2.860E-09	2.336E-09	1.962E-09	1.683E-09	1.468E-09
NE	8.708E-09	1.155E-08	7.454E-09	4.252E-09	2.870E-09	2.120E-09	1.671E-09	1.364E-09	1.142E-09	9.750E-10	8.467E-10
ENE	3.865E-09	4.963E-09	3.259E-09	1.896E-09	1.295E-09	9.641E-10	7.868E-10	6.580E-10	5.510E-10	4.714E-10	4.102E-10
E	6.063E-09	7.309E-09	4.769E-09	2.753E-09	1.871E-09	1.388E-09	1.088E-09	8.870E-10	7.596E-10	6.602E-10	5.739E-10
ESE	8.842E-09	8.951E-09	5.848E-09	3.377E-09	2.293E-09	1.700E-09	1.332E-09	1.084E-09	9.074E-10	7.759E-10	6.747E-10
SE	1.185E-08	7.162E-09	5.411E-09	3.739E-09	2.697E-09	2.101E-09	1.721E-09	1.457E-09	1.220E-09	1.042E-09	9.060E-10
SSE	3.146E-08	1.713E-08	1.090E-08	6.100E-09	4.062E-09	2.969E-09	2.301E-09	1.857E-09	1.543E-09	1.311E-09	1.134E-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	4.523E-08	3.384E-08	2.207E-08	1.657E-08	1.693E-08	1.026E-08	4.160E-09	2.156E-09	1.383E-09	9.967E-10
SSW	1.847E-08	1.820E-08	1.511E-08	1.480E-08	1.251E-08	8.553E-09	3.758E-09	1.967E-09	1.255E-09	8.964E-10
SW	3.242E-08	3.971E-08	2.268E-08	1.314E-08	8.975E-09	5.641E-09	2.480E-09	1.358E-09	9.026E-10	6.462E-10
WSW	3.116E-08	4.530E-08	2.596E-08	1.488E-08	1.821E-08	6.179E-09	3.062E-09	1.512E-09	1.035E-09	7.456E-10
W	6.781E-08	5.391E-08	2.730E-08	1.588E-08	1.073E-08	5.513E-09	2.823E-09	1.696E-09	1.093E-09	7.878E-10
WNW	9.092E-08	8.772E-08	4.486E-08	2.634E-08	1.745E-08	8.627E-09	3.599E-09	1.913E-09	1.256E-09	9.062E-10
NW	8.593E-08	1.476E-07	8.148E-08	4.571E-08	2.980E-08	1.440E-08	5.733E-09	2.897E-09	1.865E-09	1.332E-09
NNW	4.116E-08	6.384E-08	6.320E-08	5.205E-08	3.624E-08	1.790E-08	6.870E-09	3.457E-09	2.252E-09	1.649E-09
N	3.999E-08	3.023E-08	2.174E-08	1.558E-08	1.171E-08	6.932E-09	4.337E-09	2.921E-09	1.922E-09	1.372E-09
NNE	3.347E-08	2.770E-08	1.993E-08	1.442E-08	1.191E-08	1.460E-08	7.324E-09	3.659E-09	2.343E-09	1.686E-09
NE	1.684E-08	1.772E-08	1.372E-08	1.015E-08	8.445E-09	9.098E-09	4.349E-09	2.140E-09	1.367E-09	9.770E-10
ENE	7.075E-09	8.305E-09	6.634E-09	4.848E-09	3.897E-09	3.961E-09	1.932E-09	9.813E-10	6.541E-10	4.723E-10
E	1.500E-08	1.506E-08	1.110E-08	7.846E-09	6.180E-09	5.903E-09	2.809E-09	1.397E-09	8.960E-10	6.577E-10
ESE	2.284E-08	2.363E-08	1.712E-08	1.195E-08	9.225E-09	7.548E-09	3.444E-09	1.711E-09	1.087E-09	7.774E-10
SE	3.088E-08	3.478E-08	2.614E-08	1.840E-08	1.356E-08	7.426E-09	3.647E-09	2.108E-09	1.442E-09	1.044E-09
SSE	4.753E-08	4.712E-08	3.399E-08	2.806E-08	3.347E-08	1.754E-08	6.261E-09	2.993E-09	1.864E-09	1.314E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 1995
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	2.117E-08	4.115E-08	4.976E-08	4.376E-08	3.509E-08	2.777E-08	2.215E-08	1.799E-08	1.491E-08	1.676E-08	1.790E-08												
SSW	8.378E-09	1.470E-08	1.918E-08	1.976E-08	1.919E-08	1.654E-08	1.382E-08	1.499E-08	1.551E-08	1.366E-08	1.220E-08												
SW	3.842E-09	1.856E-08	3.033E-08	4.079E-08	4.914E-08	3.178E-08	2.229E-08	1.660E-08	1.293E-08	1.043E-08	8.644E-09												
WSW	1.617E-09	1.303E-08	2.895E-08	4.176E-08	3.853E-08	3.673E-08	2.540E-08	1.880E-08	1.461E-08	1.178E-08	9.764E-09												
W	1.618E-08	4.574E-08	7.467E-08	7.345E-08	5.101E-08	3.837E-08	2.674E-08	1.995E-08	1.561E-08	1.266E-08	1.055E-08												
WNW	1.307E-08	5.733E-08	9.334E-08	1.055E-07	1.065E-07	6.399E-08	4.310E-08	3.286E-08	2.629E-08	2.086E-08	1.706E-08												
NW	1.270E-08	2.929E-08	6.819E-08	1.273E-07	1.992E-07	1.181E-07	7.886E-08	5.826E-08	4.528E-08	3.582E-08	2.923E-08												
NNW	6.157E-09	2.213E-08	4.036E-08	5.117E-08	6.731E-08	6.715E-08	6.402E-08	5.913E-08	5.480E-08	4.339E-08	3.544E-08												
N	1.505E-08	3.982E-08	4.366E-08	3.725E-08	3.080E-08	2.615E-08	2.205E-08	1.835E-08	1.552E-08	1.334E-08	1.162E-08												
NNE	1.032E-08	2.929E-08	3.654E-08	3.318E-08	2.868E-08	2.407E-08	2.005E-08	1.685E-08	1.437E-08	1.242E-08	1.089E-08												
NE	7.614E-10	1.010E-08	1.816E-08	1.915E-08	1.855E-08	1.625E-08	1.382E-08	1.176E-08	1.009E-08	8.768E-09	7.709E-09												
ENE	5.502E-10	4.403E-09	7.227E-09	8.275E-09	8.810E-09	7.870E-09	6.691E-09	5.656E-09	4.818E-09	4.153E-09	3.624E-09												
E	1.822E-09	1.065E-08	1.572E-08	1.659E-08	1.594E-08	1.353E-08	1.118E-08	9.277E-09	7.805E-09	6.666E-09	5.777E-09												
ESE	1.872E-09	1.403E-08	2.401E-08	2.630E-08	2.510E-08	2.106E-08	1.725E-08	1.422E-08	1.190E-08	1.012E-08	8.730E-09												
SE	4.002E-09	1.928E-08	3.105E-08	3.651E-08	3.723E-08	3.192E-08	2.639E-08	2.187E-08	1.834E-08	1.561E-08	1.347E-08												
SSE	1.051E-08	3.346E-08	4.958E-08	5.293E-08	5.003E-08	4.182E-08	3.417E-08	2.812E-08	2.350E-08	3.164E-08	3.691E-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	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	
S	1.588E-08	1.060E-08	6.852E-09	3.896E-09	2.718E-09	2.044E-09	1.577E-09	1.266E-09	1.056E-09	8.966E-10	7.694E-10												
SSW	1.143E-08	9.367E-09	6.076E-09	3.464E-09	2.457E-09	1.828E-09	1.408E-09	1.128E-09	9.302E-10	7.837E-10	6.716E-10												
SW	7.832E-09	6.063E-09	3.973E-09	2.296E-09	1.648E-09	1.263E-09	1.015E-09	8.149E-10	6.732E-10	5.682E-10	4.879E-10												
WSW	8.700E-09	6.132E-09	4.579E-09	2.966E-09	1.982E-09	1.447E-09	1.118E-09	8.953E-10	7.373E-10	6.201E-10	5.303E-10												
W	8.984E-09	5.071E-09	3.829E-09	2.692E-09	2.087E-09	1.542E-09	1.191E-09	9.561E-10	7.889E-10	6.648E-10	5.696E-10												
WNW	1.450E-08	8.201E-09	5.604E-09	3.433E-09	2.358E-09	1.756E-09	1.382E-09	1.120E-09	9.270E-10	7.813E-10	6.698E-10												
NW	2.473E-08	1.368E-08	9.245E-09	5.530E-09	3.690E-09	2.695E-09	2.120E-09	1.711E-09	1.413E-09	1.193E-09	1.024E-09												
NNW	3.038E-08	1.749E-08	1.138E-08	6.533E-09	4.414E-09	3.256E-09	2.558E-09	2.084E-09	1.763E-09	1.504E-09	1.298E-09												
N	1.027E-08	6.493E-09	5.422E-09	4.350E-09	3.580E-09	2.895E-09	2.261E-09	1.828E-09	1.519E-09	1.289E-09	1.114E-09												
NNE	1.217E-08	1.882E-08	1.220E-08	6.985E-09	4.715E-09	3.477E-09	2.710E-09	2.194E-09	1.826E-09	1.553E-09	1.342E-09												
NE	8.607E-09	1.137E-08	7.296E-09	4.118E-09	2.751E-09	2.011E-09	1.569E-09	1.268E-09	1.051E-09	8.887E-10	7.642E-10												
ENE	3.816E-09	4.864E-09	3.172E-09	1.821E-09	1.226E-09	9.007E-10	7.243E-10	5.969E-10	4.930E-10	4.161E-10	3.572E-10												
E	6.002E-09	7.198E-09	4.673E-09	2.671E-09	1.797E-09	1.320E-09	1.025E-09	8.272E-10	7.017E-10	6.040E-10	5.200E-10												
ESE	8.769E-09	8.838E-09	5.750E-09	3.292E-09	2.216E-09	1.629E-09	1.266E-09	1.022E-09	8.483E-10	7.195E-10	6.205E-10												
SE	1.177E-08	7.086E-09	5.334E-09	3.658E-09	2.617E-09	2.021E-09	1.640E-09	1.375E-09	1.140E-09	9.664E-10	8.327E-10												
SSE	3.121E-08	1.692E-08	1.073E-08	5.951E-09	3.930E-09	2.849E-09	2.190E-09	1.752E-09	1.444E-09	1.217E-09	1.044E-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	4.518E-08	3.376E-08	2.198E-08	1.647E-08	1.680E-08	1.011E-08	4.029E-09	2.037E-09	1.275E-09	8.966E-10
SSW	1.844E-08	1.814E-08	1.502E-08	1.466E-08	1.235E-08	8.361E-09	3.597E-09	1.828E-09	1.133E-09	7.856E-10
SW	3.237E-08	3.957E-08	2.254E-08	1.303E-08	8.873E-09	5.527E-09	2.381E-09	1.266E-09	8.180E-10	5.696E-10
WSW	3.111E-08	4.512E-08	2.578E-08	1.473E-08	9.966E-09	6.013E-09	2.887E-09	1.458E-09	8.987E-10	6.215E-10
W	6.770E-08	5.371E-08	2.712E-08	1.573E-08	1.060E-08	5.388E-09	2.676E-09	1.547E-09	9.597E-10	6.663E-10
WNW	9.076E-08	8.740E-08	4.458E-08	2.610E-08	1.724E-08	8.446E-09	3.438E-09	1.767E-09	1.121E-09	7.832E-10
NW	8.581E-08	1.472E-07	8.108E-08	4.538E-08	2.951E-08	1.416E-08	5.538E-09	2.730E-09	1.714E-09	1.195E-09
NNW	4.111E-08	6.365E-08	6.290E-08	5.169E-08	3.592E-08	1.764E-08	6.668E-09	3.286E-09	2.097E-09	1.504E-09
N	3.996E-08	3.017E-08	2.166E-08	1.550E-08	1.163E-08	6.857E-09	4.246E-09	2.824E-09	1.834E-09	1.292E-09
NNE	3.343E-08	2.763E-08	1.984E-08	1.434E-08	1.182E-08	1.440E-08	7.135E-09	3.500E-09	2.201E-09	1.556E-09
NE	1.681E-08	1.766E-08	1.364E-08	1.006E-08	8.355E-09	8.944E-09	4.217E-09	2.032E-09	1.271E-09	8.908E-10
ENE	7.065E-09	8.273E-09	6.591E-09	4.804E-09	3.852E-09	3.879E-09	1.857E-09	9.169E-10	5.937E-10	4.171E-10
E	1.498E-08	1.501E-08	1.104E-08	7.792E-09	6.124E-09	5.810E-09	2.727E-09	1.329E-09	8.359E-10	6.018E-10
ESE	2.281E-08	2.357E-08	1.705E-08	1.189E-08	9.156E-09	7.450E-09	3.360E-09	1.640E-09	1.025E-09	7.210E-10
SE	3.086E-08	3.471E-08	2.606E-08	1.831E-08	1.348E-08	7.348E-09	3.568E-09	2.028E-09	1.361E-09	9.685E-10
SSE	4.749E-08	4.702E-08	3.379E-08	2.792E-08	3.324E-08	1.734E-08	6.114E-09	2.874E-09	1.760E-09	1.220E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

SECTOR	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)				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	2.118E-08	4.080E-08	4.881E-08	4.289E-08	3.432E-08	2.704E-08	2.146E-08	1.734E-08	1.431E-08	1.605E-08	1.724E-08			
SSW	8.381E-09	1.458E-08	1.887E-08	1.948E-08	1.889E-08	1.621E-08	1.348E-08	1.460E-08	1.509E-08	1.326E-08	1.183E-08			
SW	3.843E-09	1.841E-08	2.989E-08	4.042E-08	4.845E-08	3.105E-08	2.161E-08	1.599E-08	1.239E-08	9.951E-09	8.213E-09			
WSW	1.617E-09	1.292E-08	2.852E-08	4.131E-08	5.782E-08	3.606E-08	2.482E-08	1.831E-08	1.419E-08	1.142E-08	9.453E-09			
W	1.619E-08	4.501E-08	7.357E-08	7.211E-08	5.962E-08	3.730E-08	2.590E-08	1.927E-08	1.506E-08	1.220E-08	1.015E-08			
WNW	1.307E-08	5.687E-08	9.202E-08	1.040E-07	1.046E-07	6.235E-08	4.176E-08	3.175E-08	2.536E-08	2.004E-08	1.633E-08			
NW	1.270E-08	2.905E-08	6.745E-08	1.263E-07	1.968E-07	1.158E-07	7.693E-08	5.664E-08	4.390E-08	3.460E-08	2.810E-08			
NNW	6.158E-09	2.195E-08	3.971E-08	5.055E-08	6.656E-08	6.623E-08	6.312E-08	5.831E-08	5.410E-08	4.270E-08	3.474E-08			
N	1.505E-08	3.948E-08	4.282E-08	3.650E-08	3.018E-08	2.556E-08	2.148E-08	1.782E-08	1.503E-08	1.288E-08	1.119E-08			
NNE	1.032E-08	2.904E-08	3.586E-08	3.254E-08	2.812E-08	2.353E-08	1.953E-08	1.636E-08	1.390E-08	1.199E-08	1.049E-08			
NE	7.615E-10	1.002E-08	1.784E-08	1.884E-08	1.824E-08	1.592E-08	1.349E-08	1.144E-08	9.792E-09	8.484E-09	7.442E-09			
ENE	5.504E-10	4.366E-09	7.114E-09	8.171E-09	8.692E-09	7.727E-09	6.534E-09	5.496E-09	4.661E-09	4.001E-09	3.479E-09			
E	1.823E-09	1.056E-08	1.547E-08	1.636E-08	1.569E-08	1.325E-08	1.089E-08	8.987E-09	7.524E-09	6.399E-09	5.523E-09			
ESE	1.872E-09	1.392E-08	2.365E-08	2.595E-08	2.470E-08	2.061E-08	1.679E-08	1.377E-08	1.146E-08	9.702E-09	8.338E-09			
SE	4.002E-09	1.912E-08	3.064E-08	3.616E-08	3.676E-08	3.132E-08	2.574E-08	2.120E-08	1.769E-08	1.499E-08	1.288E-08			
SSE	1.051E-08	3.318E-08	4.882E-08	5.224E-08	4.926E-08	4.094E-08	3.326E-08	2.722E-08	2.264E-08	3.059E-08	3.588E-08			

BEARING	ANNUAL AVERAGE CHI/Q (SEC/METER CUBED)				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	1.527E-08	1.008E-08	6.344E-09	3.417E-09	2.244E-09	1.605E-09	1.191E-09	9.233E-10	7.484E-10	6.234E-10	5.255E-10			
SSW	1.108E-08	9.047E-09	5.714E-09	3.085E-09	2.060E-09	1.489E-09	1.120E-09	8.799E-10	7.130E-10	5.914E-10	4.998E-10			
SW	7.437E-09	5.756E-09	3.678E-09	2.019E-09	1.367E-09	9.972E-10	7.801E-10	6.128E-10	4.966E-10	4.121E-10	3.484E-10			
WSW	8.430E-09	5.915E-09	4.329E-09	2.715E-09	1.765E-09	1.261E-09	9.577E-10	7.562E-10	6.155E-10	5.127E-10	4.350E-10			
W	8.641E-09	4.871E-09	3.692E-09	2.500E-09	1.851E-09	1.338E-09	1.015E-09	8.020E-10	6.534E-10	5.447E-10	4.625E-10			
WNW	1.383E-08	7.649E-09	5.101E-09	2.966E-09	1.912E-09	1.359E-09	1.037E-09	8.233E-10	6.688E-10	5.545E-10	4.684E-10			
NW	2.367E-08	1.277E-08	8.400E-09	4.761E-09	3.612E-09	2.106E-09	1.607E-09	1.267E-09	1.026E-09	8.497E-10	7.174E-10			
NNW	2.966E-08	1.664E-08	1.049E-08	5.652E-09	3.541E-09	2.453E-09	1.831E-09	1.436E-09	1.181E-09	9.860E-10	8.335E-10			
N	9.872E-09	6.197E-09	5.185E-09	4.191E-09	3.390E-09	2.631E-09	2.006E-09	1.588E-09	1.295E-09	1.081E-09	9.195E-10			
NNE	1.176E-08	1.837E-08	1.155E-08	6.280E-09	4.039E-09	2.863E-09	2.157E-09	1.696E-09	1.375E-09	1.142E-09	9.660E-10			
NE	8.339E-09	1.107E-08	6.900E-09	3.699E-09	2.351E-09	1.650E-09	1.248E-09	9.856E-10	8.011E-10	6.650E-10	5.626E-10			
ENE	3.667E-09	4.728E-09	3.002E-09	1.631E-09	1.030E-09	7.178E-10	5.520E-10	4.399E-10	3.548E-10	2.931E-10	2.467E-10			
E	5.744E-09	6.952E-09	4.389E-09	2.369E-09	1.492E-09	1.038E-09	7.696E-10	5.960E-10	4.867E-10	4.056E-10	3.406E-10			
ESE	8.372E-09	8.478E-09	5.365E-09	2.904E-09	1.836E-09	1.280E-09	9.502E-10	7.366E-10	5.895E-10	4.835E-10	4.043E-10			
SE	1.121E-08	6.650E-09	4.975E-09	3.400E-09	2.428E-09	1.878E-09	1.530E-09	1.285E-09	1.048E-09	8.751E-10	7.439E-10			
SSE	3.012E-08	1.587E-08	9.746E-09	5.126E-09	3.224E-09	2.245E-09	1.667E-09	1.294E-09	1.038E-09	8.536E-10	7.157E-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	4.440E-08	3.299E-08	2.130E-08	1.584E-08	1.616E-08	9.573E-09	3.546E-09	1.610E-09	9.331E-10	6.242E-10
SSW	1.819E-08	1.783E-08	1.465E-08	1.425E-08	1.198E-08	8.018E-09	3.214E-09	1.494E-09	8.851E-10	5.935E-10
SW	3.202E-08	3.893E-08	2.188E-08	1.249E-08	8.440E-09	5.206E-09	2.098E-09	1.009E-09	6.163E-10	4.135E-10
WSW	3.074E-08	4.448E-08	2.521E-08	1.431E-08	9.657E-09	5.769E-09	2.651E-09	1.274E-09	7.602E-10	5.144E-10
W	6.657E-08	5.248E-08	2.629E-08	1.517E-08	1.020E-08	5.185E-09	2.477E-09	1.345E-09	8.061E-10	5.464E-10
WNW	8.951E-08	8.567E-08	4.325E-08	2.516E-08	1.650E-08	7.889E-09	2.972E-09	1.378E-09	8.256E-10	5.565E-10
NW	8.507E-08	1.451E-07	7.918E-08	4.400E-08	2.839E-08	1.325E-08	4.792E-09	2.148E-09	1.272E-09	8.528E-10
NNW	4.058E-08	6.286E-08	6.203E-08	5.096E-08	3.522E-08	1.680E-08	5.790E-09	2.494E-09	1.452E-09	9.873E-10
N	3.927E-08	2.953E-08	2.110E-08	1.501E-08	1.120E-08	6.564E-09	4.056E-09	2.583E-09	1.596E-09	1.085E-09
NNE	3.287E-08	2.706E-08	1.933E-08	1.388E-08	1.141E-08	1.387E-08	6.456E-09	2.894E-09	1.705E-09	1.146E-09
NE	1.655E-08	1.734E-08	1.332E-08	9.764E-09	8.083E-09	8.610E-09	3.811E-09	1.676E-09	9.903E-10	6.674E-10
ENE	6.973E-09	8.148E-09	6.437E-09	4.648E-09	3.703E-09	3.725E-09	1.668E-09	7.347E-10	4.395E-10	2.942E-10
E	1.478E-08	1.476E-08	1.076E-08	7.513E-09	5.864E-09	5.544E-09	2.428E-09	1.052E-09	6.040E-10	4.056E-10
ESE	2.251E-08	2.316E-08	1.660E-08	1.145E-08	8.754E-09	7.071E-09	2.976E-09	1.296E-09	7.416E-10	4.856E-10
SE	3.053E-08	3.421E-08	2.541E-08	1.767E-08	1.288E-08	6.919E-09	3.318E-09	1.886E-09	1.265E-09	8.774E-10
SSE	4.687E-08	4.623E-08	3.289E-08	2.698E-08	3.215E-08	1.631E-08	5.307E-09	2.275E-09	1.303E-09	8.572E-10

ERP ELEVATED STACK RELEASES - JAN-DEC 1995
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	4.367E-09	3.404E-09	2.674E-09	1.721E-09	7.892E-10	4.716E-10	3.143E-10	2.241E-10	1.672E-10	1.341E-10	1.195E-10	
SSW	9.871E-10	8.559E-10	8.058E-10	6.615E-10	3.122E-10	1.965E-10	1.347E-10	9.740E-11	8.904E-11	6.740E-11	5.279E-11	
SW	1.188E-09	9.754E-10	8.425E-10	5.895E-10	4.767E-10	2.578E-10	1.596E-10	1.083E-10	7.832E-11	5.927E-11	4.642E-11	
WSW	1.044E-09	8.350E-10	6.887E-10	7.409E-10	3.622E-10	1.940E-10	1.194E-10	8.071E-11	5.821E-11	4.399E-11	3.444E-11	
W	1.045E-09	1.975E-09	1.461E-09	8.636E-10	3.800E-10	2.038E-10	1.254E-10	8.480E-11	6.116E-11	4.622E-11	3.619E-11	
WNW	2.356E-09	1.830E-09	2.259E-09	1.454E-09	7.789E-10	3.950E-10	2.361E-10	1.578E-10	1.167E-10	8.955E-11	7.227E-11	
NW	2.518E-09	2.081E-09	1.816E-09	2.391E-09	1.430E-09	7.131E-10	4.225E-10	2.810E-10	2.036E-10	1.578E-10	1.291E-10	
NNW	2.503E-09	1.987E-09	1.618E-09	1.076E-09	8.195E-10	4.397E-10	2.727E-10	2.224E-10	1.666E-10	1.342E-10	1.145E-10	
N	4.021E-09	3.138E-09	2.478E-09	1.593E-09	7.319E-10	4.377E-10	2.919E-10	2.081E-10	1.553E-10	1.198E-10	9.483E-11	
NNE	2.640E-09	2.090E-09	1.690E-09	1.118E-09	5.260E-10	3.180E-10	2.133E-10	1.525E-10	1.140E-10	8.800E-11	6.966E-11	
NE	1.117E-09	9.094E-10	7.746E-10	5.359E-10	2.622E-10	1.612E-10	1.091E-10	7.839E-11	5.872E-11	4.538E-11	3.592E-11	
ENE	4.904E-10	4.089E-10	3.623E-10	2.587E-10	1.298E-10	8.066E-11	5.489E-11	3.956E-11	2.968E-11	2.295E-11	1.817E-11	
E	9.849E-10	8.431E-10	7.787E-10	5.734E-10	2.947E-10	1.848E-10	1.264E-10	9.131E-11	6.859E-11	5.306E-11	4.291E-11	
ESE	1.350E-09	1.224E-09	1.226E-09	9.538E-10	5.096E-10	3.243E-10	2.234E-10	1.621E-10	1.220E-10	9.444E-11	7.478E-11	
SE	2.209E-09	2.037E-09	2.086E-09	1.644E-09	8.865E-10	5.660E-10	3.906E-10	2.836E-10	2.135E-10	1.653E-10	1.309E-10	
SSE	4.079E-09	3.483E-09	3.206E-09	2.354E-09	1.208E-09	7.567E-10	5.172E-10	3.736E-10	2.806E-10	2.617E-10	2.389E-10	

DIRECTION FROM SITE	DISTANCES IN MILES											
	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	
S	9.617E-11	5.954E-11	3.949E-11	2.249E-11	1.440E-11	1.082E-11	7.735E-12	5.792E-12	4.472E-12	3.564E-12	2.909E-12	
SSW	4.306E-11	2.998E-11	2.044E-11	1.186E-11	7.718E-12	5.297E-12	3.797E-12	2.852E-12	2.263E-12	1.808E-12	1.476E-12	
SW	3.778E-11	2.333E-11	1.541E-11	8.711E-12	5.537E-12	4.163E-12	2.972E-12	2.273E-12	1.767E-12	1.412E-12	1.152E-12	
WSW	2.792E-11	1.876E-11	1.274E-11	8.165E-12	4.941E-12	3.313E-12	2.406E-12	1.807E-12	1.405E-12	1.122E-12	9.159E-13	
W	2.912E-11	1.315E-11	1.236E-11	8.139E-12	5.437E-12	3.662E-12	2.624E-12	1.970E-12	1.532E-12	1.224E-12	9.989E-13	
WNW	6.159E-11	3.464E-11	2.388E-11	1.407E-11	9.019E-12	6.156E-12	4.400E-12	3.307E-12	2.606E-12	2.082E-12	1.699E-12	
NW	1.108E-10	6.546E-11	4.629E-11	2.886E-11	1.763E-11	1.182E-11	8.431E-12	6.331E-12	4.948E-12	3.953E-12	3.226E-12	
NNW	1.022E-10	6.817E-11	5.091E-11	3.178E-11	2.053E-11	1.371E-11	8.922E-12	6.551E-12	5.037E-12	4.024E-12	3.285E-12	
N	7.665E-11	3.665E-11	2.257E-11	1.210E-11	2.984E-11	1.758E-11	1.258E-11	9.449E-12	7.348E-12	5.870E-12	4.792E-12	
NNE	5.629E-11	9.622E-11	5.968E-11	3.105E-11	1.899E-11	1.272E-11	9.099E-12	6.816E-12	5.288E-12	4.219E-12	3.440E-12	
NE	2.901E-11	5.074E-11	3.197E-11	1.693E-11	1.040E-11	6.953E-12	4.935E-12	3.683E-12	2.893E-12	2.311E-12	1.886E-12	
ENE	1.467E-11	1.744E-11	1.283E-11	7.917E-12	5.092E-12	3.397E-12	2.401E-12	1.546E-12	1.203E-12	9.622E-13	7.866E-13	
E	3.390E-11	3.346E-11	2.376E-11	1.425E-11	9.113E-12	6.097E-12	4.329E-12	3.211E-12	2.471E-12	1.956E-12	1.594E-12	
ESE	6.031E-11	5.616E-11	3.928E-11	2.326E-11	1.481E-11	9.900E-12	7.030E-12	5.217E-12	4.017E-12	3.190E-12	2.592E-12	
SE	1.056E-10	5.018E-11	3.071E-11	1.631E-11	1.007E-11	6.990E-12	5.259E-12	9.271E-12	7.147E-12	5.683E-12	4.625E-12	
SSE	1.986E-10	1.425E-10	8.729E-11	4.474E-11	2.720E-11	1.822E-11	1.304E-11	9.775E-12	7.590E-12	6.057E-12	4.940E-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	2.413E-09	8.550E-10	3.202E-10	1.708E-10	1.152E-10	5.877E-11	2.267E-11	1.054E-11	5.844E-12	3.591E-12
SSW	7.261E-10	3.251E-10	1.363E-10	8.318E-11	5.351E-11	2.865E-11	1.193E-11	5.343E-12	2.898E-12	1.820E-12
SW	7.596E-10	4.045E-10	1.653E-10	7.964E-11	4.703E-11	2.302E-11	8.789E-12	4.053E-12	2.280E-12	1.421E-12
WSW	7.444E-10	3.716E-10	1.238E-10	5.922E-11	3.486E-11	1.812E-11	7.749E-12	3.385E-12	1.825E-12	1.129E-12
W	1.310E-09	4.091E-10	1.301E-10	6.223E-11	3.654E-11	1.635E-11	7.877E-12	3.720E-12	1.990E-12	1.232E-12
WNW	1.806E-09	7.583E-10	2.471E-10	1.181E-10	7.344E-11	3.585E-11	1.400E-11	6.217E-12	3.352E-12	2.095E-12
NW	2.130E-09	1.325E-09	4.434E-10	2.083E-10	1.308E-10	6.701E-11	2.774E-11	1.201E-11	6.404E-12	3.979E-12
NNW	1.459E-09	7.077E-10	2.971E-10	1.702E-10	1.158E-10	6.807E-11	3.103E-11	1.361E-11	6.651E-12	4.050E-12
N	2.229E-09	7.924E-10	2.973E-10	1.569E-10	9.550E-11	3.926E-11	2.234E-11	1.885E-11	9.544E-12	5.908E-12
NNE	1.525E-09	5.651E-10	2.169E-10	1.151E-10	7.014E-11	7.111E-11	3.205E-11	1.294E-11	6.886E-12	4.247E-12
NE	6.985E-10	2.781E-10	1.107E-10	5.926E-11	3.616E-11	1.737E-11	1.737E-11	7.065E-12	3.740E-12	2.326E-12
ENE	3.266E-10	1.366E-10	5.563E-11	2.994E-11	1.829E-11	1.478E-11	7.754E-12	3.451E-12	1.660E-12	9.685E-13
E	7.018E-10	3.078E-10	1.279E-10	6.917E-11	4.228E-11	2.925E-11	1.408E-11	6.194E-12	3.248E-12	1.975E-12
ESE	1.105E-09	5.260E-10	2.258E-10	1.229E-10	7.524E-11	4.958E-11	2.306E-11	1.006E-11	5.278E-12	3.214E-12
SE	1.879E-09	9.124E-10	3.946E-10	2.152E-10	1.317E-10	5.383E-11	1.673E-11	7.118E-12	7.316E-12	5.725E-12
SSE	2.889E-09	1.262E-09	5.236E-10	3.000E-10	2.307E-10	1.304E-10	4.640E-11	1.854E-11	9.875E-12	6.098E-12

ERP ELEVATED STACK RELEASES - JAN-DEC 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	
					NO DECAY	2.260 DAY DECAY	8.000 DAY DECAY	
					UNDEPLETED	UNDEPLETED	DEPLETED	
A	SITE BOUNDARY	S	0.80	1287.	4.856E-08	4.851E-08	4.755E-08	2.448E-09
A	SITE BOUNDARY	SSW	0.82	1327.	1.936E-08	1.933E-08	1.901E-08	7.457E-10
A	SITE BOUNDARY	SW	0.98	1569.	3.987E-08	3.980E-08	3.941E-08	6.153E-10
A	SITE BOUNDARY	WSW	0.93	1489.	3.791E-08	3.784E-08	3.740E-08	6.408E-10
A	SITE BOUNDARY	W	0.91	1468.	7.510E-08	7.496E-08	7.369E-08	1.020E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.034E-07	1.032E-07	1.017E-07	1.654E-09
A	SITE BOUNDARY	NW	0.81	1307.	8.202E-08	8.192E-08	8.118E-08	1.672E-09
A	SITE BOUNDARY	NNW	0.69	1106.	3.532E-08	3.529E-08	3.473E-08	1.685E-09
A	SITE BOUNDARY	N	0.67	1086.	4.273E-08	4.271E-08	4.197E-08	2.624E-09
A	SITE BOUNDARY	NNE	0.60	965.	3.278E-08	3.275E-08	3.229E-08	1.894E-09
A	SITE BOUNDARY	NE	0.62	1005.	1.449E-08	1.447E-08	1.427E-08	8.263E-10
A	SITE BOUNDARY	ENE	0.59	945.	5.366E-09	5.363E-09	5.294E-09	3.860E-10
A	SITE BOUNDARY	E	0.53	845.	1.119E-08	1.118E-08	1.107E-08	8.312E-10
A	SITE BOUNDARY	ESE	0.54	865.	1.553E-08	1.552E-08	1.536E-08	1.213E-09
A	SITE BOUNDARY	SE	0.65	1046.	2.540E-08	2.538E-08	2.505E-08	2.035E-09
A	SITE BOUNDARY	SSE	0.81	1307.	5.082E-08	5.078E-08	5.001E-08	2.989E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	4.861E-08	4.848E-08	4.794E-08	6.397E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	5.480E-08	5.463E-08	5.401E-08	4.886E-10
A	NEAR. RESIDENCE	W	1.00	1609.	7.360E-08	7.345E-08	7.211E-08	8.636E-10
A	NEAR. RESIDENCE	WNW	1.60	2575.	9.547E-08	9.509E-08	9.319E-08	6.684E-10
A	NEAR. RESIDENCE	NW	0.90	1448.	1.030E-07	1.029E-07	1.021E-07	2.681E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	6.782E-08	6.758E-08	6.668E-08	4.921E-10
A	NEAR. RESIDENCE	N	3.00	4828.	1.843E-08	1.835E-08	1.782E-08	2.081E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	1.876E-08	1.868E-08	1.817E-08	1.854E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	8.554E-09	8.518E-09	8.389E-09	1.042E-10
A	NEAR. RESIDENCE	E	1.80	2897.	1.459E-08	1.455E-08	1.428E-08	2.156E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	1.802E-08	1.795E-08	1.749E-08	2.395E-10
A	NEAREST COW	NNW	3.50	5633.	5.517E-08	5.479E-08	5.409E-08	1.666E-10
A	NEAREST GARDEN	SW	1.30	2092.	4.861E-08	4.848E-08	4.794E-08	6.397E-10
A	NEAREST GARDEN	WSW	1.80	2897.	4.387E-08	4.366E-08	4.296E-08	2.434E-10
A	NEAREST GARDEN	WNW	1.60	2575.	9.547E-08	9.509E-08	9.319E-08	6.684E-10
A	NEAREST GARDEN	NW	2.80	4506.	6.568E-08	6.531E-08	6.357E-08	3.270E-10
A	NEAREST GARDEN	NNW	1.90	3058.	6.782E-08	6.758E-08	6.668E-08	4.921E-10
A	NEAREST GARDEN	N	3.00	4828.	1.843E-08	1.835E-08	1.782E-08	2.081E-10
A	NEAREST GARDEN	ENE	1.70	2736.	8.554E-09	8.518E-09	8.389E-09	1.042E-10
A	NEAREST GARDEN	E	1.80	2897.	1.459E-08	1.455E-08	1.428E-08	2.156E-10
A	NEAREST GARDEN	ESE	2.40	3863.	1.802E-08	1.795E-08	1.749E-08	2.395E-10

ATMOSPHERIC DIFFUSION MODEL

Onsite meteorological data from January 1 through December 31, 1995, 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:

$$(X/Q)_i = 2.032 \sum_{jk} \frac{f_{ijk}}{x_{uj} \Sigma_{zk}} \exp \left[\frac{-\frac{1}{2} h_o^2}{\sigma_{zk}^2} \right] \quad (\text{Eq. 1})$$

and

$$\Sigma_{zk} = (\sigma_{zk}^2 + 0.5 D_z^2/\pi)^{1/2} \leq \sqrt{3} \sigma_{zk} \quad (\text{Eq. 2})$$

where

i	=	index identifying direction sector;
j	=	index identifying wind speed class;
k	=	index identifying atmospheric stability class;
$\frac{X}{Q}$	=	average effluent concentration normalized by source strength at the specific downwind distance;
f	=	joint frequency distribution of wind direction, wind speed class, and atmospheric stability class;
x	=	distance from the release point to a receptor;
u	=	wind speed;
E_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 E_{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., $E_{zk} = \sigma_{zk}$. 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 Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 1995, Cooper Nuclear Station

Dose to Individual, mrem								
Period and Pathway	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
<u>1st Quarter</u>								
Drinking Water		3.55 E-04	4.31 E-04	5.62 E-04	5.89 E-10	7.54 E-05	1.77 E-05	4.03 E-03
Shoreline	2.61 E-05	2.22 E-05	2.22 E-05	2.22 E-05	2.22 E-05	2.22 E-05	2.22 E-05	2.22 E-05
Totals	2.61 E-05	3.77 E-04	4.53 E-04	5.84 E-04	2.22 E-05	9.76 E-05	3.99 E-05	4.05 E-03
<u>2nd Quarter</u>								
Eating Fish		2.65 E-04	3.70 E-04	2.47 E-04	2.92 E-09	1.24 E-04	4.08 E-05	7.89 E-05
Drinking Water		7.18 E-04	5.00 E-04	5.03 E-04	5.74 E-08	1.28 E-04	4.34 E-05	2.37 E-03
Shoreline	1.03 E-05	8.78 E-06	8.78 E-06	8.78 E-06	8.78 E-06	8.78 E-06	8.78 E-06	8.78 E-06
Totals	1.03 E-05	9.92 E-04	8.79 E-04	7.59 E-04	8.84 E-06	2.61 E-04	9.30 E-05	2.46 E-03
Totals for 1st & 2nd Quarters	3.64 E-05	1.37 E-03	1.33 E-03	1.34 E-03	3.10 E-05	3.59 E-04	1.33 E-04	6.51 E-03

Calculated doses are based on the following periods of exposures:

Fishing : from April through November
 Drinking water and shoreline : from January through December

TABLE 2. Doses to Maximum Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, July-December 1995, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
<u>3rd Quarter</u>								
Eating Fish		2.05 E-04	2.61E-04	1.73E-04	5.40E-08	8.78E-05	2.89E-05	5.06E-05
Drinking Water		1.00 E-03	2.53 E-04	2.69 E-04	7.96 E-07	6.79 E-05	2.21 E-05	1.19 E-03
Shoreline	6.54 E-06	5.56 E-06	5.56 E-06	5.56 E-06	5.56 E-06	5.56 E-06	5.56 E-06	5.56 E-06
Totals	6.54 E-06	1.21 E-03	5.20 E-04	4.48 E-04	6.41 E-06	1.61 E-04	5.66 E-05	1.25 E-03
<u>4th Quarter</u>								
Eating Fish		6.70 E-04	1.06 E-03	6.90 E-04	3.28 E-09	3.47 E-04	1.07 E-04	7.23 E-04
Drinking Water		2.95 E-03	8.98 E-03	9.92 E-03	2.53 E-07	1.80 E-03	5.21 E-04	6.82 E-02
Shoreline	1.10 E-04	9.37 E-05	9.37 E-05	9.37 E-05	9.37 E-05	9.37 E-05	9.37 E-05	9.37 E-05
Totals	1.10 E-04	3.71 E-03	1.01 E-02	1.07 E-02	9.40 E-05	2.24 E-03	7.22 E-04	6.90 E-02
Totals for 3rd & 4th Quarters	1.17 E-04	4.92 E-03	1.06 E-02	1.11 E-02	1.00 E-04	2.40 E-03	7.79 E-04	7.03 E-02

Calculated doses are based on the following periods of exposures:

Fishing	:	from April through November
Drinking water and shoreline	:	from January through December

TABLE 3. Summary of Doses to Maximum Individual at the Site Boundary, Resulting from Exposure to Radioactivity Discharged in Liquid Effluents, January-December 1995, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	2.61 E-05	3.77 E-04	4.53E-04	5.84E-04	2.22E-05	9.76E-05	3.99E-05	4.05E-03
2nd Quarter	1.03 E-05	9.92 E-04	8.79 E-04	7.59 E-04	8.84 E-06	2.61 E-04	9.30 E-05	2.46 E-03
3rd Quarter	6.54 E-06	1.21 E-03	5.20 E-04	4.48 E-04	6.41 E-06	1.61 E-04	5.66 E-05	1.25 E-03
4th Quarter	1.10 E-04	3.71 E-03	1.01 E -02	1.07 E-02	9.40 E-05	2.24 E-03	7.22 E-04	6.90 E-02
Totals for 1995	1.53 E-04	6.29 E-03	1.20 E-02	1.25 E-02	1.31 E-04	2.76 E-03	9.12 E-04	7.68 E-02

Table 4. Doses to Population Withing a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, Jan-June 1995, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		4.77 E-04	4.91 E-04	6.54 E-04	7.48 E-10	8.60 E-05	2.15 E-05	3.51 E-03
Shoreline	1.38 E-03	1.17 E-03	1.17 E-03	1.17 E-03	1.17 E-03	1.17 E-03	1.17 E-03	1.17 E-03
Totals	1.38 E-03	1.65 E-03	1.66 E-03	1.82 E-03	1.17 E-03	1.26 E-03	1.19 E-03	4.68 E-03
2nd Quarter								
Eating Fish		1.86 E-05	2.42 E-05	1.33 E-05	4.08 E-18	8.05 E-06	2.74 E-06	4.28 E-06
Drinking Water		6.63 E-04	4.00 E-04	3.65 E-04	1.75 E-08	1.02 E-04	3.61 E-05	1.42 E-03
Shoreline	5.47 E-04	4.65 E-04	4.65 E-04	4.65 E-04	4.65 E-04	4.65 E-04	4.65 E-04	4.65 E-04
Swimming		9.63 E-07	9.63 E-07	9.63 E-07	9.63 E-07	9.63 E-07	9.63 E-07	9.63 E-07
Boating		1.07 E-05	1.07 E-05	1.07 E-05	1.07 E-05	1.07 E-05	1.07 E-05	1.07 E-05
Totals	5.47 E-04	1.16 E-03	9.01 E-04	8.55 E-04	4.77 E-04	5.87 E-04	5.16 E-04	1.90 E-03
Totals for 1st & 2nd Quarters	1.93 E-03	2.81 E-03	2.56 E-03	2.68 E-03	1.65 E-03	1.85 E-03	1.71 E-03	6.58 E-03

Calculated doses are based on the following periods of exposures:

Fishing and Boating : from April through November
 Drinking Water and Shoreline : from January through December
 Swimming : from June through 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 1995, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		1.42 E-05	1.71 E-05	9.32 E-06	7.56 E-17	5.72 E-06	1.94 E-06	2.73 E-06
Drinking Water		1.23 E-03	2.70 E-04	2.62 E-04	3.24 E-07	7.18 E-05	2.40 E-05	9.55 E-04
Shoreline	3.46 E-04	2.95 E-04	2.95 E-04	2.95 E-04	2.95 E-04	2.95 E-04	2.95 E-04	2.95 E-04
Swimming		1.86 E-06	1.86 E-06	1.86 E-06	1.86 E-06	1.86 E-06	1.86 E-06	1.86 E-06
Boating		6.80 E-06	6.80 E-06	6.80 E-06	6.80 E-06	6.80 E-06	6.80 E-06	6.80 E-06
Totals	3.46 E-04	1.55 E-03	5.91 E-04	5.75 E-04	3.04 E-04	3.81 E-04	3.30 E-04	1.26 E-03
4th Quarter								
Eating Fish		4.73 E-05	6.90 E-05	3.77 E-05	4.59 E-18	2.24 E-05	7.16 E-06	3.87 E-05
Drinking Water		1.04 E-03	2.72 E-03	2.99 E-03	2.97 E-08	5.42 E-04	1.67 E-04	1.57 E-02
Shoreline	5.84 E-03	4.97 E-03	4.97 E-03	4.97 E-03	4.97 E-03	4.97 E-03	4.97 E-03	4.97 E-03
Boating		8.09 E-05	8.09 E-05	8.09 E-05	8.09 E-05	8.09 E-05	8.09 E-05	8.09 E-05
Totals	5.84 E-03	6.14 E-03	7.84 E-03	8.08 E-03	5.05 E-03	5.62 E-03	5.23 E-03	2.08 E-02
Totals for 3rd & 4th Quarters	6.19 E-03	7.69 E-03	8.43 E-03	8.66 E-03	5.35 E-03	6.00 E-03	5.56 E-03	2.21 E-02

Calculated doses are based on the following periods of exposures:

Fishing and Boating : from April through November
 Drinking Water and Shoreline : from January through December
 Swimming : from June through 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 1995, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	1.38 E-03	1.65 E-03	1.66E-03	1.82E-03	1.17E-03	1.26E-03	1.19E-03	4.68E-03
2nd Quarter	5.47 E-04	1.16 E-03	9.01 E-04	8.55 E-04	4.77 E-04	5.87 E-04	5.16 E-04	1.90 E-03
3rd Quarter	3.46 E-04	1.55 E-03	5.91 E-04	5.75 E-04	3.04 E-04	3.81 E-04	3.30 E-04	1.26 E-03
4th Quarter	5.84 E-03	6.14 E-03	7.84 E-03	8.08 E-03	5.05 E-03	5.62 E-03	5.23 E-03	2.08 E-02
Totals for 1995	8.11 E-03	1.05 E-02	1.10 E-02	1.13 E-02	7.00 E-03	7.85 E-03	7.27 E-03	2.86 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 1995 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 1995

COOPER NUCLEAR STATION JANUARY-MARCH 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.21E-05	5.21E-05	5.22E-05	5.22E-05	5.22E-05	7.42E-05	5.29E-05	1.32E-04
TEEN	5.22E-05	5.21E-05	5.22E-05	5.22E-05	5.23E-05	8.28E-05	5.29E-05	1.32E-04
CHILD	5.22E-05	5.21E-05	5.23E-05	5.23E-05	5.24E-05	1.11E-04	5.29E-05	1.32E-04
INFANT	5.23E-05	5.21E-05	5.24E-05	5.25E-05	5.25E-05	1.76E-04	5.29E-05	1.32E-04

COOPER NUCLEAR STATION JANUARY-MARCH 1995
SPECIAL LOCATION # 2 NEAR RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.68E-04	1.68E-04	1.68E-04	1.68E-04	1.68E-04	2.00E-04	1.70E-04	4.01E-04
TEEN	1.68E-04	1.68E-04	1.68E-04	1.68E-04	1.68E-04	2.12E-04	1.70E-04	4.01E-04
CHILD	1.68E-04	1.68E-04	1.68E-04	1.68E-04	1.68E-04	2.53E-04	1.70E-04	4.01E-04
INFANT	1.68E-04	1.68E-04	1.68E-04	1.69E-04	1.69E-04	3.47E-04	1.70E-04	4.01E-04

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 1995

(CONTINUED)

COOPER NUCLEAR STATION JANUARY-MARCH 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.30E-05	2.18E-05	4.43E-05
TEEN	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.35E-05	2.18E-05	4.43E-05
CHILD	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.51E-05	2.18E-05	4.43E-05
INFANT	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.88E-05	2.18E-05	4.43E-05

COOPER NUCLEAR STATION JANUARY-MARCH 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.38E-05	4.04E-05	8.27E-05
TEEN	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.52E-05	4.04E-05	8.27E-05
CHILD	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.98E-05	4.04E-05	8.27E-05
INFANT	4.00E-05	4.00E-05	4.01E-05	4.01E-05	4.01E-05	6.05E-05	4.04E-05	8.27E-05

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 1995

COOPER NUCLEAR STATION APRIL-JUNE 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	7.81E-08	4.01E-08	9.35E-08	1.30E-07	2.18E-07	4.02E-05	7.94E-09	9.64E-09
TEEN	1.11E-07	4.55E-08	1.45E-07	1.99E-07	3.36E-07	5.58E-05	7.94E-09	9.64E-09
CHILD	1.90E-07	3.63E-08	3.26E-07	3.28E-07	5.33E-07	1.06E-04	7.94E-09	9.64E-09
INFANT	3.07E-07	3.22E-08	5.86E-07	6.89E-07	8.04E-07	2.24E-04	7.94E-09	9.64E-09

COOPER NUCLEAR STATION APRIL-JUNE 1995
SPECIAL LOCATION # 2 NEAR RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.07E-07	5.53E-08	1.29E-07	1.79E-07	2.99E-07	5.51E-05	1.10E-08	1.33E-08
TEEN	1.52E-07	6.27E-08	1.98E-07	2.74E-07	4.63E-07	7.67E-05	1.10E-08	1.33E-08
CHILD	2.61E-07	5.01E-08	4.49E-07	4.52E-07	7.34E-07	1.46E-04	1.10E-08	1.33E-08
INFANT	4.24E-07	4.45E-08	8.09E-07	9.51E-07	1.11E-06	3.09E-04	1.10E-08	1.33E-08

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 1995

(CONTINUED)

COOPER NUCLEAR STATION APRIL-JUNE 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.62E-09	2.87E-09	6.73E-09	9.39E-09	1.57E-08	2.89E-06	5.63E-10	6.83E-10
TEEN	7.94E-09	3.25E-09	1.04E-08	1.43E-08	2.42E-08	4.01E-06	5.63E-10	6.83E-10
CHILD	1.36E-08	2.58E-09	2.33E-08	2.34E-08	3.81E-08	7.56E-06	5.63E-10	6.83E-10
INFANT	2.18E-08	2.29E-09	4.17E-08	4.90E-08	5.72E-08	1.59E-05	5.63E-10	6.83E-10

COOPER NUCLEAR STATION APRIL-JUNE 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.91E-08	9.79E-09	2.30E-08	3.19E-08	5.34E-08	9.84E-06	1.93E-09	2.35E-09
TEEN	2.70E-08	1.11E-08	3.54E-08	4.88E-08	8.24E-08	1.36E-05	1.93E-09	2.35E-09
CHILD	4.63E-08	8.85E-09	7.96E-08	8.00E-08	1.30E-07	2.58E-05	1.93E-09	2.35E-09
INFANT	7.49E-08	7.85E-09	1.43E-07	1.68E-07	1.96E-07	5.46E-05	1.93E-09	2.35E-09

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 1995

COOPER NUCLEAR STATION JANUARY-JUNE 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.58E-05	4.58E-05	4.59E-05	4.60E-05	4.61E-05	1.22E-04	4.64E-05	1.16E-04
TEEN	4.59E-05	4.58E-05	4.60E-05	4.61E-05	4.63E-05	1.52E-04	4.64E-05	1.16E-04
CHILD	4.61E-05	4.58E-05	4.63E-05	4.63E-05	4.67E-05	2.49E-04	4.64E-05	1.16E-04
INFANT	4.63E-05	4.58E-05	4.68E-05	4.70E-05	4.72E-05	4.76E-04	4.64E-05	1.16E-04

COOPER NUCLEAR STATION JANUARY-JUNE 1995
SPECIAL LOCATION # 2 NEAR RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.22E-04	1.22E-04	1.22E-04	1.22E-04	1.23E-04	2.29E-04	1.24E-04	2.94E-04
TEEN	1.22E-04	1.22E-04	1.22E-04	1.23E-04	1.23E-04	2.70E-04	1.24E-04	2.94E-04
CHILD	1.23E-04	1.22E-04	1.23E-04	1.23E-04	1.23E-04	4.04E-04	1.24E-04	2.94E-04
INFANT	1.23E-04	1.22E-04	1.24E-04	1.24E-04	1.24E-04	7.19E-04	1.24E-04	2.94E-04

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 1995

(CONTINUED)

COOPER NUCLEAR STATION JANUARY-JUNE 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.38E-05	1.38E-05	1.38E-05	1.38E-05	1.38E-05	1.87E-05	1.40E-05	2.84E-05
TEEN	1.38E-05	1.38E-05	1.38E-05	1.38E-05	1.38E-05	2.06E-05	1.40E-05	2.84E-05
CHILD	1.38E-05	1.38E-05	1.38E-05	1.38E-05	1.39E-05	2.63E-05	1.40E-05	2.84E-05
INFANT	1.38E-05	1.38E-05	1.39E-05	1.39E-05	1.39E-05	3.98E-05	1.40E-05	2.84E-05

COOPER NUCLEAR STATION JANUARY-JUNE 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.89E-05	2.89E-05	2.89E-05	2.89E-05	2.90E-05	4.36E-05	2.93E-05	6.03E-05
TEEN	2.89E-05	2.89E-05	2.90E-05	2.90E-05	2.90E-05	4.93E-05	2.93E-05	6.03E-05
CHILD	2.90E-05	2.89E-05	2.90E-05	2.90E-05	2.91E-05	6.72E-05	2.93E-05	6.03E-05
INFANT	2.90E-05	2.89E-05	2.91E-05	2.91E-05	2.92E-05	1.09E-04	2.93E-05	6.03E-05

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 1995

COOPER NUCLEAR STATION JULY-SEPTEMBER 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.69 MILES NNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.61E-08	1.86E-08	4.32E-08	6.03E-08	1.01E-07	1.85E-05	3.71E-09	4.50E-09
TEEN	5.12E-08	2.11E-08	6.67E-08	9.20E-08	1.56E-07	2.58E-05	3.71E-09	4.50E-09
CHILD	8.80E-08	1.69E-08	1.51E-07	1.52E-07	2.48E-07	4.91E-05	3.71E-09	4.50E-09
INFANT	1.43E-07	1.50E-08	2.73E-07	3.21E-07	3.74E-07	1.04E-04	3.71E-09	4.50E-09

COOPER NUCLEAR STATION JULY-SEPTEMBER 1995
SPECIAL LOCATION # 2 NEAR RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.45E-09	1.26E-09	2.94E-09	4.09E-09	6.82E-09	1.26E-06	2.50E-10	3.04E-10
TEEN	3.47E-09	1.43E-09	4.52E-09	6.24E-09	1.06E-08	1.74E-06	2.50E-10	3.04E-10
CHILD	5.96E-09	1.14E-09	1.02E-08	1.03E-08	1.68E-08	3.32E-06	2.50E-10	3.04E-10
INFANT	9.67E-09	1.01E-09	1.84E-08	2.17E-08	2.53E-08	7.05E-06	2.50E-10	3.04E-10

TABLE 4, DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 1995

(CONTINUED)

COOPER NUCLEAR STATION JULY-SEPTEMBER 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.71E-09	1.38E-09	3.24E-09	4.51E-09	7.55E-09	1.39E-06	2.71E-10	3.29E-10
TEEN	3.82E-09	1.57E-09	5.00E-09	6.88E-09	1.17E-08	1.93E-06	2.71E-10	3.29E-10
CHILD	6.52E-09	1.25E-09	1.12E-08	1.13E-08	1.84E-08	3.64E-06	2.71E-10	3.29E-10
INFANT	1.05E-08	1.10E-09	2.01E-08	2.36E-08	2.76E-08	7.67E-06	2.71E-10	3.29E-10

COOPER NUCLEAR STATION JULY-SEPTEMBER 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	8.90E-09	4.56E-09	1.07E-08	1.48E-08	2.48E-08	4.58E-06	9.04E-10	1.10E-09
TEEN	1.26E-08	5.19E-09	1.64E-08	2.26E-08	3.83E-08	6.35E-06	9.04E-10	1.10E-09
CHILD	2.16E-08	4.13E-09	3.71E-08	3.73E-08	6.07E-08	1.20E-05	9.04E-10	1.10E-09
INFANT	3.50E-08	3.67E-09	6.68E-08	7.84E-08	9.14E-08	2.55E-05	9.04E-10	1.10E-09

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 1995

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.69 MILES NNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.21E-05	4.21E-05	4.22E-05	4.22E-05	4.22E-05	6.69E-05	4.27E-05	1.06E-04
TEEN	4.22E-05	4.21E-05	4.22E-05	4.22E-05	4.23E-05	7.66E-05	4.27E-05	1.06E-04
CHILD	4.22E-05	4.21E-05	4.23E-05	4.23E-05	4.24E-05	1.08E-04	4.27E-05	1.06E-04
INFANT	4.23E-05	4.21E-05	4.25E-05	4.25E-05	4.26E-05	1.81E-04	4.27E-05	1.06E-04

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1995
SPECIAL LOCATION # 2 NEAR RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	7.82E-05	7.81E-05	7.82E-05	7.82E-05	7.83E-05	1.09E-04	7.92E-05	1.95E-04
TEEN	7.82E-05	7.81E-05	7.82E-05	7.83E-05	7.84E-05	1.22E-04	7.92E-05	1.95E-04
CHILD	7.82E-05	7.81E-05	7.84E-05	7.84E-05	7.85E-05	1.61E-04	7.92E-05	1.95E-04
INFANT	7.83E-05	7.81E-05	7.86E-05	7.86E-05	7.87E-05	2.53E-04	7.92E-05	1.95E-04

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 1995

(CONTINUED)

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.86E-05	2.86E-05	2.86E-05	2.86E-05	2.86E-05	3.15E-05	2.89E-05	5.87E-05
TEEN	2.86E-05	2.86E-05	2.86E-05	2.86E-05	2.86E-05	3.26E-05	2.89E-05	5.87E-05
CHILD	2.86E-05	2.86E-05	2.86E-05	2.86E-05	2.86E-05	3.59E-05	2.89E-05	5.87E-05
INFANT	2.86E-05	2.86E-05	2.86E-05	2.86E-05	2.87E-05	4.37E-05	2.89E-05	5.87E-05

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.95E-05	3.95E-05	3.95E-05	3.95E-05	3.95E-05	4.69E-05	4.00E-05	8.44E-05
TEEN	3.95E-05	3.95E-05	3.95E-05	3.95E-05	3.96E-05	4.97E-05	4.00E-05	8.44E-05
CHILD	3.95E-05	3.95E-05	3.96E-05	3.96E-05	3.96E-05	5.87E-05	4.00E-05	8.44E-05
INFANT	3.96E-05	3.95E-05	3.96E-05	3.96E-05	3.96E-05	7.98E-05	4.00E-05	8.44E-05

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 1995

COOPER NUCLEAR STATION JULY-DECEMBER 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.69 MILES NNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.54E-05	2.54E-05	2.54E-05	2.55E-05	2.56E-05	7.95E-05	2.56E-05	6.32E-05
TEEN	2.54E-05	2.54E-05	2.55E-05	2.56E-05	2.58E-05	1.01E-04	2.56E-05	6.32E-05
CHILD	2.56E-05	2.53E-05	2.57E-05	2.57E-05	2.60E-05	1.69E-04	2.56E-05	6.32E-05
INFANT	2.57E-05	2.53E-05	2.61E-05	2.62E-05	2.64E-05	3.30E-04	2.56E-05	6.32E-05

COOPER NUCLEAR STATION JULY-DECEMBER 1995
SPECIAL LOCATION # 2 NEAR RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.71E-05	3.71E-05	3.71E-05	3.72E-05	3.73E-05	9.01E-05	3.75E-05	9.05E-05
TEEN	3.71E-05	3.71E-05	3.72E-05	3.73E-05	3.74E-05	1.11E-04	3.75E-05	9.05E-05
CHILD	3.73E-05	3.70E-05	3.74E-05	3.74E-05	3.77E-05	1.77E-04	3.75E-05	9.05E-05
INFANT	3.74E-05	3.70E-05	3.78E-05	3.79E-05	3.81E-05	3.35E-04	3.75E-05	9.05E-05

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 1995

(CONTINUED)

COOPER NUCLEAR STATION JULY-DECEMBER 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.53E-05	2.11E-05	1.55E-05	3.14E-05
TEEN	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.53E-05	2.33E-05	1.55E-05	3.14E-05
CHILD	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.54E-05	3.01E-05	1.55E-05	3.14E-05
INFANT	1.53E-05	1.53E-05	1.54E-05	1.54E-05	1.54E-05	4.57E-05	1.55E-05	3.14E-05

COOPER NUCLEAR STATION JULY-DECEMBER 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.59E-05	2.59E-05	2.59E-05	2.60E-05	2.60E-05	4.14E-05	2.62E-05	5.69E-05
TEEN	2.59E-05	2.59E-05	2.60E-05	2.60E-05	2.60E-05	4.73E-05	2.62E-05	5.69E-05
CHILD	2.60E-05	2.59E-05	2.60E-05	2.60E-05	2.61E-05	6.62E-05	2.62E-05	5.69E-05
INFANT	2.60E-05	2.59E-05	2.61E-05	2.62E-05	2.62E-05	1.11E-04	2.62E-05	5.69E-05

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 1995

COOPER NUCLEAR STATION JANUARY-DECEMBER 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	9.25E-05	9.24E-05	9.26E-05	9.27E-05	9.31E-05	2.53E-04	9.36E-05	2.36E-04
TEEN	9.26E-05	9.24E-05	9.28E-05	9.30E-05	9.36E-05	3.16E-04	9.36E-05	2.36E-04
CHILD	9.30E-05	9.23E-05	9.35E-05	9.35E-05	9.44E-05	5.19E-04	9.36E-05	2.36E-04
INFANT	9.34E-05	9.23E-05	9.46E-05	9.50E-05	9.54E-05	9.98E-04	9.36E-05	2.36E-04

COOPER NUCLEAR STATION JANUARY-DECEMBER 1995
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.72E-04	1.72E-04	1.72E-04	1.73E-04	1.73E-04	3.33E-04	1.74E-04	4.25E-04
TEEN	1.72E-04	1.72E-04	1.73E-04	1.73E-04	1.73E-04	3.95E-04	1.74E-04	4.25E-04
CHILD	1.73E-04	1.72E-04	1.73E-04	1.73E-04	1.74E-04	5.96E-04	1.74E-04	4.25E-04
INFANT	1.73E-04	1.72E-04	1.74E-04	1.75E-04	1.75E-04	1.07E-03	1.74E-04	4.25E-04

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 1995 (CONTINUED)

COOPER NUCLEAR STATION JANUARY-DECEMBER 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.01E-05	3.01E-05	3.01E-05	3.01E-05	3.02E-05	4.08E-05	3.05E-05	6.16E-05
TEEN	3.01E-05	3.01E-05	3.01E-05	3.02E-05	3.02E-05	4.48E-05	3.05E-05	6.16E-05
CHILD	3.01E-05	3.01E-05	3.02E-05	3.02E-05	3.02E-05	5.74E-05	3.05E-05	6.16E-05
INFANT	3.02E-05	3.01E-05	3.02E-05	3.03E-05	3.03E-05	8.66E-05	3.05E-05	6.16E-05

COOPER NUCLEAR STATION JANUARY-DECEMBER 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.43E-05	5.42E-05	5.43E-05	5.43E-05	5.44E-05	8.45E-05	5.48E-05	1.15E-04
TEEN	5.43E-05	5.42E-05	5.43E-05	5.43E-05	5.45E-05	9.62E-05	5.48E-05	1.15E-04
CHILD	5.43E-05	5.42E-05	5.44E-05	5.44E-05	5.46E-05	1.33E-04	5.48E-05	1.15E-04
INFANT	5.44E-05	5.42E-05	5.46E-05	5.47E-05	5.48E-05	2.20E-04	5.48E-05	1.15E-04

TABLE 8. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-MARCH 1995

COOPER NUCLEAR STATION JANUARY-MARCH 1995
 ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.58E-05	1.39E-04
GROUND	2.54E-09	2.54E-09	2.54E-09	2.54E-09	2.54E-09	2.54E-09	2.54E-09	3.08E-09
INHAL	2.28E-09	5.80E-10	3.11E-09	4.03E-09	6.83E-09	1.33E-06	0.00E+00	0.00E+00
VEGET	2.69E-08	8.98E-09	3.86E-08	4.75E-08	8.02E-08	1.54E-05	0.00E+00	0.00E+00
COW MILK	3.51E-08	1.09E-08	5.18E-08	6.20E-08	1.04E-07	2.01E-05	0.00E+00	0.00E+00
MEAT	7.60E-10	2.97E-10	1.02E-09	1.34E-09	2.27E-09	4.34E-07	0.00E+00	0.00E+00
TOTAL	5.48E-05	5.48E-05	5.49E-05	5.49E-05	5.50E-05	9.20E-05	5.58E-05	1.39E-04

TABLE 9. DOSES TO POPULATION WITHIN 50 MILES, APRIL-JUNE 1995

COOPER NUCLEAR STATION APRIL-JUNE 1995
 ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
GROUND	1.75E-09	1.75E-09	1.75E-09	1.75E-09	1.75E-09	1.75E-09	1.75E-09	2.12E-09
INHAL	1.15E-09	2.94E-10	1.57E-09	2.04E-09	3.46E-09	6.72E-07	0.00E+00	0.00E+00
VEGET	1.77E-08	5.90E-09	2.54E-08	3.12E-08	5.27E-08	1.01E-05	0.00E+00	0.00E+00
COW MILK	2.40E-08	7.42E-09	3.54E-08	4.24E-08	7.14E-08	1.37E-05	0.00E+00	0.00E+00
MEAT	5.20E-10	2.03E-10	6.95E-10	9.14E-10	1.55E-09	2.97E-07	0.00E+00	0.00E+00
TOTAL	4.51E-08	1.56E-08	6.48E-08	7.84E-08	1.31E-07	2.48E-05	1.75E-09	2.12E-09

TABLE 10. DOSES TO POPULATION WITHIN 50 MILES, JULY-SEPTEMBER 1995

COOPER NUCLEAR STATION JULY-SEPTEMBER 1995
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
GROUND	6.18E-10	6.18E-10	6.18E-10	6.18E-10	6.18E-10	6.18E-10	6.18E-10	7.50E-10
INHAL	3.47E-10	8.83E-11	4.73E-10	6.13E-10	1.04E-09	2.02E-07	0.00E+00	0.00E+00
VEGET	4.21E-09	1.40E-09	6.05E-09	7.44E-09	1.26E-08	2.41E-06	0.00E+00	0.00E+00
COW MILK	5.40E-09	1.67E-09	7.97E-09	9.55E-09	1.61E-08	3.09E-06	0.00E+00	0.00E+00
MEAT	1.26E-10	4.91E-11	1.68E-10	2.21E-10	3.76E-10	7.18E-08	0.00E+00	0.00E+00
TOTAL	1.07E-08	3.83E-09	1.53E-08	1.84E-08	3.07E-08	5.78E-06	6.18E-10	7.50E-10

TABLE 11. DOSES TO POPULATION WITHIN 50 MILES, OCTOBER-DECEMBER 1995

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1995
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.99E-05	4.99E-05	4.99E-05	4.99E-05	4.99E-05	4.99E-05	5.08E-05	1.24E-04
GROUND	4.13E-09	4.13E-09	4.13E-09	4.13E-09	4.13E-09	4.13E-09	4.13E-09	5.02E-09
INHAL	3.48E-09	8.84E-10	4.74E-09	6.14E-09	1.04E-08	2.02E-06	0.00E+00	0.00E+00
VEGET	3.99E-08	1.33E-08	5.73E-08	7.05E-08	1.19E-07	2.28E-05	0.00E+00	0.00E+00
COW MILK	5.14E-08	1.59E-08	7.58E-08	9.08E-08	1.53E-07	2.94E-05	0.00E+00	0.00E+00
MEAT	1.14E-09	4.44E-10	1.52E-09	2.00E-09	3.40E-09	6.50E-07	0.00E+00	0.00E+00
TOTAL	5.00E-05	4.99E-05	5.00E-05	5.01E-05	5.02E-05	1.05E-04	5.08E-05	1.24E-04

TABLE 12. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-JUNE 1995

COOPER NUCLEAR STATION JANUARY-JUNE 1995
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.40E-05	8.45E-05
GROUND	6.61E-09	6.61E-09	6.61E-09	6.61E-09	6.61E-09	6.61E-09	6.61E-09	8.02E-09
INHAL	5.69E-09	1.45E-09	7.76E-09	1.01E-08	1.71E-08	3.31E-06	0.00E+00	0.00E+00
VEGET	6.99E-08	2.33E-08	1.00E-07	1.23E-07	2.08E-07	4.00E-05	0.00E+00	0.00E+00
COW MILK	9.18E-08	2.84E-08	1.35E-07	1.62E-07	2.73E-07	5.25E-05	0.00E+00	0.00E+00
MEAT	1.99E-09	7.78E-10	2.66E-09	3.50E-09	5.95E-09	1.14E-06	0.00E+00	0.00E+00
TOTAL	3.36E-05	3.34E-05	3.36E-05	3.37E-05	3.39E-05	1.30E-04	3.40E-05	8.45E-05

TABLE 13. DOSES TO POPULATION WITHIN 50 MILES, JULY-DECEMBER 1995

COOPER NUCLEAR STATION JULY-DECEMBER 1995
ALARA ANNUAL INTEGRATED POPULATION DOSE SUM

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.76E-05	2.76E-05	2.76E-05	2.76E-05	2.76E-05	2.76E-05	2.81E-05	6.87E-05
GROUND	7.32E-09	7.32E-09	7.32E-09	7.32E-09	7.32E-09	7.32E-09	7.32E-09	8.89E-09
INHAL	6.04E-09	1.54E-09	8.23E-09	1.07E-08	1.81E-08	3.51E-06	0.00E+00	0.00E+00
VEGET	6.95E-08	2.32E-08	9.97E-08	1.23E-07	2.07E-07	3.97E-05	0.00E+00	0.00E+00
COW MILK	8.94E-08	2.76E-08	1.32E-07	1.58E-07	2.66E-07	5.11E-05	0.00E+00	0.00E+00
MEAT	1.98E-09	7.75E-10	2.65E-09	3.49E-09	5.93E-09	1.13E-06	0.00E+00	0.00E+00
TOTAL	2.78E-05	2.77E-05	2.79E-05	2.79E-05	2.81E-05	1.23E-04	2.81E-05	6.87E-05

TABLE 14. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-DECEMBER 1995

COOPER NUCLEAR STATION JANUARY-DECEMBER 1995
 ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.18E-05	6.18E-05	6.18E-05	6.18E-05	6.18E-05	6.18E-05	6.29E-05	1.55E-04
GROUND	1.39E-08	1.39E-08	1.39E-08	1.39E-08	1.39E-08	1.39E-08	1.39E-08	1.69E-08
INHAL	1.17E-08	2.99E-09	1.60E-08	2.07E-08	3.52E-08	6.83E-06	0.00E+00	0.00E+00
VEGET	1.39E-07	4.64E-08	2.00E-07	2.46E-07	4.15E-07	7.97E-05	0.00E+00	0.00E+00
COW MILK	1.81E-07	5.60E-08	2.67E-07	3.20E-07	5.39E-07	1.04E-04	0.00E+00	0.00E+00
MEAT	3.97E-09	1.55E-09	5.30E-09	6.98E-09	1.19E-08	2.27E-06	0.00E+00	0.00E+00
TOTAL	6.22E-05	6.20E-05	6.23E-05	6.24E-05	6.29E-05	2.54E-04	6.30E-05	1.55E-04

TABLE 15. GAMMA AND BETA AIR DOSES, JANUARY-MARCH 1995

COOPER NUCLEAR STATION JANUARY-MARCH 1995
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	7.889E-05	3.985E-05	2.065E-05	1.189E-05	7.221E-06	2.915E-06	1.138E-06	5.106E-07	2.469E-07	1.364E-07
NNE	1.042E-04	4.042E-05	1.919E-05	1.129E-05	7.640E-06	1.113E-05	2.926E-06	1.027E-06	4.752E-07	2.551E-07
NE	4.624E-05	2.541E-05	1.350E-05	8.328E-06	5.547E-06	7.524E-06	1.903E-06	6.411E-07	2.929E-07	1.543E-07
ENE	3.398E-06	8.248E-06	5.300E-06	3.359E-06	2.239E-06	2.454E-06	6.340E-07	2.149E-07	1.010E-07	5.249E-08
E	7.005E-07	1.421E-05	8.610E-06	5.045E-06	3.262E-06	3.242E-06	8.459E-07	2.971E-07	1.404E-07	7.738E-08
ESE	1.925E-05	1.667E-05	9.375E-06	5.554E-06	3.725E-06	4.157E-06	1.147E-06	4.084E-07	1.917E-07	1.034E-07
SE	8.699E-05	6.540E-05	3.110E-05	1.776E-05	1.179E-05	4.533E-06	1.687E-06	6.684E-07	3.250E-07	1.743E-07
SSE	1.704E-04	1.787E-04	5.894E-05	3.264E-05	3.865E-05	1.301E-05	3.201E-06	1.100E-06	5.121E-07	2.756E-07
S	1.923E-04	7.965E-05	3.334E-05	1.773E-05	1.721E-05	6.995E-06	1.729E-06	5.690E-07	2.374E-07	1.182E-07
SSW	6.884E-05	3.503E-05	1.715E-05	1.302E-05	8.241E-06	3.970E-06	9.064E-07	2.798E-07	1.121E-07	5.416E-08
SW	7.594E-05	6.980E-05	2.219E-05	1.017E-05	5.785E-06	2.380E-06	5.455E-07	1.630E-07	6.641E-08	3.213E-08
WSW	3.922E-05	5.563E-05	1.813E-05	8.869E-06	5.282E-06	2.533E-06	7.032E-07	1.823E-07	6.858E-08	3.251E-08
W	5.079E-05	3.850E-05	1.275E-05	6.373E-06	3.755E-06	1.473E-06	5.370E-07	1.772E-07	6.747E-08	3.232E-08
WNW	1.573E-04	9.957E-05	2.932E-05	1.446E-05	8.239E-06	2.957E-06	7.205E-07	2.001E-07	7.810E-08	3.693E-08
NW	6.913E-05	2.948E-04	7.921E-05	3.778E-05	2.083E-05	7.218E-06	1.980E-06	6.503E-07	2.924E-07	1.513E-07
NNW	1.887E-05	6.811E-05	4.652E-05	3.212E-05	1.808E-05	6.936E-06	1.725E-06	5.483E-07	2.380E-07	1.227E-07

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	8.190E-05	3.281E-05	1.517E-05	8.497E-06	5.190E-06	2.175E-06	8.822E-07	4.143E-07	2.157E-07	1.317E-07
NNE	1.041E-04	3.206E-05	1.380E-05	8.079E-06	5.538E-06	8.446E-06	2.304E-06	8.742E-07	4.598E-07	2.878E-07
NE	4.587E-05	1.865E-05	9.676E-06	6.108E-06	4.160E-06	5.769E-06	1.520E-06	5.683E-07	3.022E-07	1.891E-07
ENE	3.437E-06	6.425E-06	3.829E-06	2.397E-06	1.621E-06	1.872E-06	5.032E-07	1.880E-07	1.021E-07	6.324E-08
E	6.953E-07	1.084E-05	6.177E-06	3.614E-06	2.379E-06	2.455E-06	6.641E-07	2.496E-07	1.310E-07	8.323E-08
ESE	1.779E-05	1.204E-05	6.733E-06	4.097E-06	2.797E-06	3.183E-06	9.098E-07	3.533E-07	1.886E-07	1.187E-07
SE	8.735E-05	5.571E-05	2.286E-05	1.267E-05	8.439E-06	3.394E-06	1.311E-06	5.463E-07	2.970E-07	1.819E-07
SSE	1.657E-04	1.744E-04	4.574E-05	2.376E-05	2.766E-05	9.739E-06	2.495E-06	9.065E-07	4.636E-07	2.821E-07
S	1.885E-04	6.557E-05	2.423E-05	1.265E-05	1.247E-05	5.363E-06	1.392E-06	5.402E-07	2.812E-07	1.790E-07
SSW	6.698E-05	2.646E-05	1.224E-05	9.573E-06	6.210E-06	3.090E-06	7.676E-07	2.947E-07	1.537E-07	9.618E-08
SW	7.572E-05	5.268E-05	1.583E-05	7.418E-06	4.317E-06	1.843E-06	4.521E-07	1.645E-07	8.561E-08	5.298E-08
WSW	3.990E-05	4.024E-05	1.316E-05	6.636E-06	4.027E-06	2.012E-06	6.892E-07	2.659E-07	1.466E-07	9.502E-08
W	4.822E-05	2.811E-05	9.192E-06	4.745E-06	2.866E-06	1.157E-06	5.094E-07	2.513E-07	1.391E-07	9.076E-08
WNW	1.521E-04	7.118E-05	2.145E-05	1.093E-05	6.326E-06	2.345E-06	6.785E-07	2.709E-07	1.525E-07	9.841E-08
NW	6.857E-05	2.288E-04	5.652E-05	2.722E-05	1.534E-05	5.528E-06	1.580E-06	5.782E-07	3.056E-07	1.894E-07
NNW	1.848E-05	5.105E-05	3.321E-05	2.350E-05	1.352E-05	5.361E-06	1.414E-06	5.295E-07	2.864E-07	1.866E-07

TABLE 16. GAMMA AND BETA AIR DOSES, APRIL-JUNE 1995

COOPER NUCLEAR STATION APRIL-JUNE 1995

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

[illegible]

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

[illegible]

TABLE 17. GAMMA AND BETA AIR DOSES, JANUARY-JUNE 1995

COOPER NUCLEAR STATION JANUARY-JUNE 1995
 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	5.397E-05	2.856E-05	1.237E-05	6.708E-06	4.167E-06	1.628E-06	6.233E-07	2.723E-07	1.287E-07	7.030E-08
NNE	6.294E-05	2.499E-05	1.181E-05	6.927E-06	4.532E-06	6.356E-06	1.666E-06	5.933E-07	2.754E-07	1.490E-07
NE	2.783E-05	1.390E-05	7.436E-06	4.576E-06	3.058E-06	3.983E-06	1.012E-06	3.412E-07	1.560E-07	8.157E-08
ENE	1.928E-06	4.902E-06	2.965E-06	1.807E-06	1.246E-06	1.310E-06	3.369E-07	1.118E-07	5.117E-08	2.657E-08
E	3.978E-07	8.815E-06	4.980E-06	2.887E-06	1.863E-06	1.760E-06	4.546E-07	1.610E-07	7.496E-08	4.165E-08
ESE	1.660E-05	1.185E-05	6.186E-06	3.603E-06	2.330E-06	2.364E-06	6.401E-07	2.290E-07	1.070E-07	5.804E-08
SE	5.099E-05	3.530E-05	1.770E-05	9.543E-06	6.299E-06	2.555E-06	9.253E-07	3.704E-07	1.795E-07	9.752E-08
SSE	1.075E-04	6.969E-05	3.209E-05	1.757E-05	2.127E-05	7.114E-06	1.752E-06	6.089E-07	2.810E-07	1.499E-07
S	1.199E-04	4.243E-05	1.819E-05	9.471E-06	9.154E-06	3.907E-06	9.702E-07	3.219E-07	1.356E-07	6.709E-08
SSW	4.054E-05	2.059E-05	1.046E-05	8.517E-06	5.675E-06	3.138E-06	7.451E-07	2.453E-07	1.005E-07	4.932E-08
SW	4.665E-05	4.589E-05	1.458E-05	6.696E-06	3.775E-06	1.558E-06	3.542E-07	1.070E-07	4.333E-08	2.096E-08
WSW	2.323E-05	3.709E-05	1.181E-05	5.516E-06	3.175E-06	1.575E-06	4.396E-07	1.139E-07	4.278E-08	2.031E-08
W	6.102E-05	3.792E-05	1.181E-05	5.551E-06	3.271E-06	1.222E-06	3.957E-07	1.232E-07	4.685E-08	2.224E-08
WNW	9.449E-05	7.731E-05	2.150E-05	9.988E-06	5.660E-06	1.974E-06	4.691E-07	1.308E-07	5.098E-08	2.409E-08
NW	6.314E-05	2.044E-04	5.743E-05	2.661E-05	1.433E-05	4.881E-06	1.313E-06	4.416E-07	2.023E-07	1.056E-07
NNW	3.588E-05	5.265E-05	3.178E-05	2.061E-05	1.159E-05	4.224E-06	1.048E-06	3.388E-07	1.473E-07	7.594E-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	5.400E-05	2.476E-05	9.114E-06	4.786E-06	3.002E-06	1.224E-06	4.867E-07	2.257E-07	1.174E-07	7.219E-08
NNE	6.345E-05	2.024E-05	8.568E-06	4.943E-06	3.277E-06	4.817E-06	1.309E-06	5.009E-07	2.625E-07	1.641E-07
NE	2.789E-05	1.023E-05	5.322E-06	3.348E-06	2.287E-06	3.055E-06	8.077E-07	3.019E-07	1.604E-07	1.000E-07
ENE	1.975E-06	3.733E-06	2.115E-06	1.308E-06	9.164E-07	1.005E-06	2.693E-07	9.998E-08	5.394E-08	3.358E-08
E	3.910E-07	6.933E-06	3.584E-06	2.065E-06	1.354E-06	1.331E-06	3.567E-07	1.346E-07	6.986E-08	4.448E-08
ESE	1.611E-05	8.697E-06	4.423E-06	2.633E-06	1.739E-06	1.805E-06	5.066E-07	1.963E-07	1.040E-07	6.532E-08
SE	5.235E-05	3.008E-05	1.319E-05	6.808E-06	4.517E-06	1.903E-06	7.186E-07	3.013E-07	1.627E-07	9.999E-08
SSE	1.090E-04	6.203E-05	2.490E-05	1.273E-05	1.525E-05	5.343E-06	1.368E-06	5.028E-07	2.562E-07	1.555E-07
S	1.220E-04	3.476E-05	1.322E-05	6.769E-06	6.660E-06	2.994E-06	7.801E-07	3.044E-07	1.588E-07	1.009E-07
SSW	3.989E-05	1.543E-05	7.464E-06	6.239E-06	4.251E-06	2.436E-06	6.248E-07	2.509E-07	1.321E-07	8.324E-08
SW	4.505E-05	3.426E-05	1.042E-05	4.906E-06	2.832E-06	1.208E-06	2.953E-07	1.084E-07	5.628E-08	3.483E-08
WSW	2.305E-05	2.709E-05	8.510E-06	4.115E-06	2.423E-06	1.249E-06	4.329E-07	1.676E-07	9.251E-08	6.010E-08
W	5.884E-05	2.814E-05	8.492E-06	4.139E-06	2.494E-06	9.595E-07	3.717E-07	1.723E-07	9.477E-08	6.142E-08
WNW	9.019E-05	5.627E-05	1.552E-05	7.477E-06	4.310E-06	1.549E-06	4.247E-07	1.645E-07	9.111E-08	5.834E-08
NW	6.228E-05	1.607E-04	4.127E-05	1.903E-05	1.046E-05	3.716E-06	1.039E-06	3.815E-07	2.004E-07	1.232E-07
NNW	3.501E-05	4.048E-05	2.267E-05	1.496E-05	8.594E-06	3.254E-06	8.508E-07	3.174E-07	1.696E-07	1.094E-07

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TABLE 19. GAMMA AND BETA AIR DOSES, OCTOBER-DECEMBER 1995

COOPER NUCLEAR STATION OCTOBER-DECEMBER 1995
INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DIR	DISTANCE IN MILES									
	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	1.020E-04	4.075E-05	2.219E-05	1.335E-05	9.032E-06	3.953E-06	2.016E-06	1.042E-06	5.267E-07	3.045E-07
NNE	5.244E-05	3.023E-05	1.642E-05	9.831E-06	6.346E-06	7.231E-06	1.880E-06	6.763E-07	3.217E-07	1.768E-07
NE	6.295E-06	1.549E-05	9.083E-06	5.605E-06	3.663E-06	3.792E-06	9.684E-07	3.335E-07	1.556E-07	8.275E-08
ENE	1.323E-05	8.948E-06	4.694E-06	2.745E-06	1.780E-06	1.764E-06	4.266E-07	1.294E-07	5.558E-08	2.722E-08
E	4.831E-05	2.143E-05	1.033E-05	5.601E-06	3.640E-06	3.411E-06	8.908E-07	3.066E-07	1.394E-07	7.712E-08
ESE	3.845E-05	4.303E-05	2.226E-05	1.227E-05	7.884E-06	5.037E-06	1.234E-06	4.490E-07	2.171E-07	1.192E-07
SE	3.350E-05	5.744E-05	2.750E-05	1.535E-05	9.774E-06	3.700E-06	1.276E-06	5.052E-07	2.470E-07	1.332E-07
SSE	3.118E-05	4.926E-05	2.442E-05	1.420E-05	1.868E-05	6.232E-06	1.548E-06	5.460E-07	2.567E-07	1.398E-07
S	5.462E-05	3.030E-05	1.372E-05	7.843E-06	8.782E-06	3.567E-06	9.038E-07	3.223E-07	1.490E-07	8.039E-08
SSW	8.977E-06	8.613E-06	4.986E-06	5.078E-06	3.583E-06	2.254E-06	5.494E-07	1.845E-07	7.773E-08	3.868E-08
SW	1.942E-05	3.420E-05	1.146E-05	5.555E-06	3.353E-06	2.245E-06	6.018E-07	2.269E-07	1.017E-07	5.183E-08
WSW	3.040E-05	4.894E-05	1.602E-05	7.289E-06	4.135E-06	1.742E-06	4.870E-07	1.544E-07	6.616E-08	3.363E-08
W	8.049E-05	6.622E-05	1.920E-05	9.071E-06	5.218E-06	1.817E-06	5.645E-07	2.002E-07	8.811E-08	4.512E-08
WNW	8.720E-05	9.769E-05	3.016E-05	1.547E-05	8.782E-06	3.133E-06	8.836E-07	2.990E-07	1.317E-07	6.743E-08
NW	4.727E-05	1.390E-04	4.515E-05	2.077E-05	1.177E-05	4.214E-06	1.147E-06	3.546E-07	1.504E-07	7.458E-08
NNW	3.619E-05	8.127E-05	5.396E-05	3.908E-05	2.242E-05	8.480E-06	2.203E-06	8.169E-07	3.989E-07	2.230E-07

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)
DISTANCE IN MILES

DIR	DISTANCE IN MILES									
	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	1.041E-04	3.462E-05	1.662E-05	9.578E-06	6.446E-06	2.910E-06	1.550E-06	8.239E-07	4.363E-07	2.694E-07
NNE	5.263E-05	2.456E-05	1.199E-05	7.015E-06	4.573E-06	5.437E-06	1.465E-06	5.564E-07	2.904E-07	1.797E-07
NE	6.374E-06	1.204E-05	6.508E-06	4.015E-06	2.674E-06	2.881E-06	7.615E-07	2.824E-07	1.483E-07	9.141E-08
ENE	1.306E-05	6.587E-06	3.373E-06	2.027E-06	1.341E-06	1.367E-06	3.568E-07	1.334E-07	7.627E-08	4.844E-08
E	4.921E-05	1.696E-05	7.418E-06	4.035E-06	2.670E-06	2.608E-06	7.074E-07	2.678E-07	1.408E-07	9.186E-08
ESE	3.878E-05	3.771E-05	1.748E-05	8.957E-06	5.639E-06	3.706E-06	9.543E-07	3.604E-07	1.864E-07	1.129E-07
SE	3.460E-05	5.166E-05	2.143E-05	1.115E-05	6.977E-06	2.723E-06	9.870E-07	4.089E-07	2.215E-07	1.352E-07
SSE	3.319E-05	4.213E-05	1.014E-05	1.017E-05	1.339E-05	4.663E-06	1.203E-06	4.431E-07	2.254E-07	1.363E-07
S	5.696E-05	2.601E-05	1.012E-05	5.599E-06	6.315E-06	2.687E-06	7.058E-07	2.672E-07	1.366E-07	8.369E-08
SSW	8.848E-06	6.406E-06	3.565E-06	3.765E-06	2.715E-06	1.745E-06	4.558E-07	1.829E-07	9.667E-08	6.092E-08
SW	2.067E-05	2.675E-05	8.185E-06	4.016E-06	2.471E-06	1.727E-06	4.889E-07	2.177E-07	1.224E-07	7.814E-08
WSW	3.122E-05	3.560E-05	1.146E-05	5.358E-06	3.106E-06	1.345E-06	3.954E-07	1.444E-07	7.513E-08	4.691E-08
W	7.456E-05	5.117E-05	1.370E-05	6.577E-06	3.863E-06	1.394E-06	6.520E-07	1.798E-07	9.353E-08	5.807E-08
WNW	8.349E-05	7.733E-05	2.171E-05	1.108E-05	6.402E-06	2.390E-06	7.055E-07	2.703E-07	1.440E-07	9.043E-08
NW	4.811E-05	1.064E-04	3.234E-05	1.504E-05	8.714E-06	3.246E-06	9.410E-07	3.469E-07	1.874E-07	1.183E-07
NNW	3.639E-05	7.158E-05	3.958E-05	2.789E-05	1.616E-05	6.369E-06	1.720E-06	6.728E-07	3.605E-07	2.278E-07

TABLE 20. GAMMA AND BETA AIR DOSES, JULY-DECEMBER 1995

COOPER NUCLEAR STATION JULY-DECEMBER 1995
 INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	6.423E-05	2.305E-05	1.247E-05	7.501E-06	4.932E-06	2.204E-06	1.175E-06	6.209E-07	3.148E-07	1.829E-07
NNE	2.533E-05	1.749E-05	9.343E-06	5.621E-06	3.648E-06	4.261E-06	1.101E-06	3.990E-07	1.899E-07	1.047E-07
NE	5.129E-06	9.930E-06	5.154E-06	2.952E-06	1.934E-06	2.022E-06	5.140E-07	1.773E-07	8.164E-08	4.392E-08
ENE	9.731E-06	4.609E-06	2.574E-06	1.474E-06	9.445E-07	9.278E-07	2.256E-07	6.841E-08	2.949E-08	1.441E-08
E	2.664E-05	1.281E-05	5.590E-06	3.172E-06	1.999E-06	1.881E-06	4.878E-07	1.673E-07	7.716E-08	4.238E-08
ESE	2.058E-05	2.285E-05	1.133E-05	6.831E-06	4.170E-06	2.553E-06	6.562E-07	2.379E-07	1.150E-07	6.378E-08
SE	1.460E-05	2.845E-05	1.495E-05	8.307E-06	5.101E-06	1.925E-06	6.694E-07	2.670E-07	1.310E-07	6.998E-08
SSE	1.210E-05	2.570E-05	1.322E-05	7.467E-06	9.716E-06	3.260E-06	8.169E-07	2.872E-07	1.357E-07	7.378E-08
S	2.511E-05	1.542E-05	6.801E-06	4.245E-06	4.631E-06	1.889E-06	4.768E-07	1.711E-07	7.871E-08	4.225E-08
SSW	4.562E-06	4.746E-06	2.583E-06	2.618E-06	1.902E-06	1.176E-06	2.883E-07	9.805E-08	4.083E-08	2.042E-08
SW	7.615E-06	1.798E-05	6.008E-06	2.941E-06	1.740E-06	1.171E-06	3.156E-07	1.192E-07	5.387E-08	2.717E-08
WSW	2.067E-05	2.78E-05	8.255E-06	3.864E-06	2.194E-06	9.171E-07	2.552E-07	8.124E-08	3.474E-08	1.767E-08
W	4.180E-05	3.303E-05	1.021E-05	4.708E-06	2.690E-06	9.556E-07	2.982E-07	1.053E-07	4.616E-08	2.366E-08
WNW	4.697E-05	5.175E-05	1.583E-05	7.968E-06	4.753E-06	1.657E-06	4.647E-07	1.563E-07	6.963E-08	3.543E-08
NW	1.966E-05	7.362E-05	2.358E-05	1.138E-05	6.286E-06	2.259E-06	6.177E-07	1.917E-07	8.100E-08	4.006E-08
NNW	2.718E-05	4.348E-05	3.099E-05	2.279E-05	1.263E-05	4.681E-06	1.239E-06	4.554E-07	2.223E-07	1.251E-07

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	6.609E-05	1.972E-05	9.411E-06	5.398E-06	3.521E-06	1.623E-06	9.027E-07	4.901E-07	2.598E-07	1.607E-07
NNE	2.495E-05	1.437E-05	6.829E-06	4.011E-06	2.626E-06	3.203E-06	8.587E-07	3.281E-07	1.712E-07	1.061E-07
NE	5.142E-06	8.149E-06	3.715E-06	2.119E-06	1.415E-06	1.534E-06	4.040E-07	1.500E-07	7.813E-08	4.842E-08
ENE	9.915E-06	3.337E-06	1.846E-06	1.087E-06	7.117E-07	7.190E-07	1.885E-07	7.042E-08	4.030E-08	2.557E-08
E	2.724E-05	1.057E-05	4.014E-06	2.274E-06	1.464E-06	1.435E-06	3.865E-07	1.455E-07	7.687E-08	4.984E-08
ESE	2.082E-05	1.995E-05	8.730E-06	5.037E-06	2.980E-06	1.892E-06	5.074E-07	1.910E-07	9.874E-08	6.016E-08
SE	1.451E-05	2.506E-05	1.176E-05	6.072E-06	3.641E-06	1.419E-06	5.178E-07	2.159E-07	1.171E-07	7.109E-08
SSE	1.233E-05	2.191E-05	9.918E-06	5.348E-06	6.972E-06	2.441E-06	6.343E-07	2.331E-07	1.190E-07	7.183E-08
S	2.561E-05	1.307E-05	4.944E-06	3.035E-06	3.329E-06	1.421E-06	3.723E-07	1.415E-07	7.203E-08	4.400E-08
SSW	4.461E-06	3.584E-06	1.849E-06	1.947E-06	1.439E-06	9.112E-07	2.393E-07	9.670E-08	5.083E-08	3.208E-08
SW	7.771E-06	1.406E-05	4.291E-06	2.125E-06	1.285E-06	9.015E-07	2.566E-07	1.144E-07	6.455E-08	4.106E-08
WSW	2.200E-05	2.063E-05	5.917E-06	2.837E-06	1.646E-06	7.076E-07	2.074E-07	7.596E-08	3.949E-08	2.466E-08
W	3.857E-05	2.503E-05	7.288E-06	3.420E-06	1.998E-06	7.332E-07	2.386E-07	9.455E-08	4.910E-08	3.051E-08
WNW	4.525E-05	4.107E-05	1.139E-05	5.718E-06	3.450E-06	1.263E-06	3.710E-07	1.417E-07	7.590E-08	4.754E-08
NW	1.901E-05	5.597E-05	1.685E-05	8.220E-06	4.658E-06	1.740E-06	5.057E-07	1.864E-07	1.003E-07	6.321E-08
NNW	2.781E-05	3.689E-05	2.279E-05	1.627E-05	9.092E-06	3.516E-06	9.656E-07	3.738E-07	1.997E-07	1.263E-07

TABLE 21. GAMMA AND BETA AIR DOSES, JANUARY-DECEMBER 1995

COOPER NUCLEAR STATION JANUARY-DECEMBER 1995
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	1.257E-04	4.808E-05	2.599E-05	1.404E-05	9.551E-06	4.122E-06	1.990E-06	1.004E-06	5.031E-07	2.825E-07	
NNE	8.398E-05	4.286E-05	2.237E-05	1.330E-05	8.632E-06	1.076E-05	2.771E-06	9.954E-07	4.676E-07	2.542E-07	
NE	2.492E-05	2.137E-05	1.251E-05	7.173E-06	4.969E-06	5.941E-06	1.481E-06	5.026E-07	2.312E-07	1.227E-07	
ENE	1.263E-05	1.038E-05	5.715E-06	3.338E-06	2.201E-06	2.244E-06	5.625E-07	1.769E-07	7.736E-08	3.861E-08	
E	2.691E-05	2.342E-05	1.169E-05	6.398E-06	4.086E-06	3.811E-06	9.937E-07	3.441E-07	1.581E-07	8.769E-08	
ESE	3.961E-05	3.799E-05	1.906E-05	1.068E-05	6.809E-06	5.157E-06	1.347E-06	4.832E-07	2.313E-07	1.264E-07	
SE	6.033E-05	6.518E-05	3.225E-05	1.820E-05	1.202E-05	4.547E-06	1.618E-06	6.415E-07	3.161E-07	1.702E-07	
SSE	1.003E-04	8.443E-05	4.320E-05	2.395E-05	2.995E-05	1.003E-05	2.474E-06	8.662E-07	4.010E-07	2.172E-07	
S	1.152E-04	5.467E-05	2.446E-05	1.319E-05	1.370E-05	5.674E-06	1.393E-06	4.730E-07	2.050E-07	1.036E-07	
SSW	4.220E-05	2.469E-05	1.172E-05	1.054E-05	7.024E-06	4.080E-06	9.842E-07	3.268E-07	1.352E-07	6.683E-08	
SW	4.402E-05	6.171E-05	2.010E-05	8.989E-06	5.322E-06	2.768E-06	6.915E-07	2.396E-07	1.037E-07	5.154E-08	
WSW	3.578E-05	6.587E-05	2.054E-05	9.602E-06	5.426E-06	2.430E-06	6.610E-07	1.788E-07	6.882E-08	3.277E-08	
W	1.077E-04	7.215E-05	2.298E-05	1.027E-05	6.036E-06	2.188E-06	6.763E-07	2.125E-07	8.352E-08	3.981E-08	
WNW	1.379E-04	1.230E-04	3.659E-05	1.803E-05	1.016E-05	3.624E-06	9.460E-07	2.874E-07	1.182E-07	5.745E-08	
NW	8.398E-05	2.620E-04	7.794E-05	3.605E-05	1.997E-05	6.936E-06	1.857E-06	6.016E-07	2.640E-07	1.340E-07	
NNW	5.686E-05	9.514E-05	6.521E-05	4.486E-05	2.502E-05	9.256E-06	2.407E-06	8.355E-07	3.870E-07	2.077E-07	

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	1.279E-04	3.989E-05	1.939E-05	1.001E-05	6.841E-06	3.060E-06	1.538E-06	8.012E-07	4.240E-07	2.587E-07	
NNE	8.387E-05	3.495E-05	1.642E-05	9.489E-06	6.204E-06	8.113E-06	2.171E-06	8.293E-07	4.336E-07	2.694E-07	
NE	2.404E-05	1.583E-05	8.926E-06	5.231E-06	3.679E-06	4.530E-06	1.175E-06	4.372E-07	2.311E-07	1.439E-07	
ENE	1.262E-05	7.740E-06	4.083E-06	2.444E-06	1.645E-06	1.732E-06	4.595E-07	1.703E-07	9.449E-08	5.949E-08	
E	2.612E-05	1.897E-05	8.457E-06	4.583E-06	2.982E-06	2.902E-06	7.845E-07	2.951E-07	1.543E-07	9.971E-08	
ESE	3.943E-05	3.114E-05	1.396E-05	7.618E-06	4.903E-06	3.877E-06	1.051E-06	3.988E-07	2.091E-07	1.289E-07	
SE	6.129E-05	5.649E-05	2.435E-05	1.306E-05	8.577E-06	3.369E-06	1.254E-06	5.209E-07	2.839E-07	1.732E-07	
SSE	1.011E-04	7.219E-05	3.302E-05	1.725E-05	2.148E-05	7.523E-06	1.928E-06	7.104E-07	3.607E-07	2.196E-07	
S	1.145E-04	4.532E-05	1.791E-05	9.409E-06	9.887E-06	4.314E-06	1.106E-06	4.237E-07	2.186E-07	1.366E-07	
SSW	4.216E-05	1.899E-05	8.374E-06	7.739E-06	5.290E-06	3.166E-06	8.217E-07	3.300E-07	1.739E-07	1.096E-07	
SW	4.203E-05	4.705E-05	1.434E-05	6.578E-06	3.969E-06	2.139E-06	5.684E-07	2.347E-07	1.282E-07	8.075E-08	
WSW	3.541E-05	4.848E-05	1.474E-05	7.089E-06	4.107E-06	1.904E-06	6.012E-07	2.253E-07	1.222E-07	7.847E-08	
W	1.027E-04	5.389E-05	1.641E-05	7.580E-06	4.550E-06	1.700E-06	5.873E-07	2.496E-07	1.346E-07	8.608E-08	
WNW	1.321E-04	9.122E-05	2.615E-05	1.322E-05	7.614E-06	2.809E-06	7.970E-07	3.046E-07	1.660E-07	1.056E-07	
NW	8.387E-05	2.032E-04	5.590E-05	2.590E-05	1.465E-05	5.307E-06	1.491E-06	5.468E-07	2.894E-07	1.801E-07	
NNW	5.540E-05	7.589E-05	4.697E-05	3.214E-05	1.827E-05	7.048E-06	1.903E-06	7.202E-07	3.832E-07	2.436E-07	

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 1995

Parameter	Values Assigned	
	Individual	Population
Cooling flow rate (cfs) * (Average daily value)	Q1	830.27
	Q2	1305.78
	Q3	1454.79
	Q4	399.99
Dilution factor*	Q1	1
	Q2	1
	Q3	1
	Q4	1
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 1995, 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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