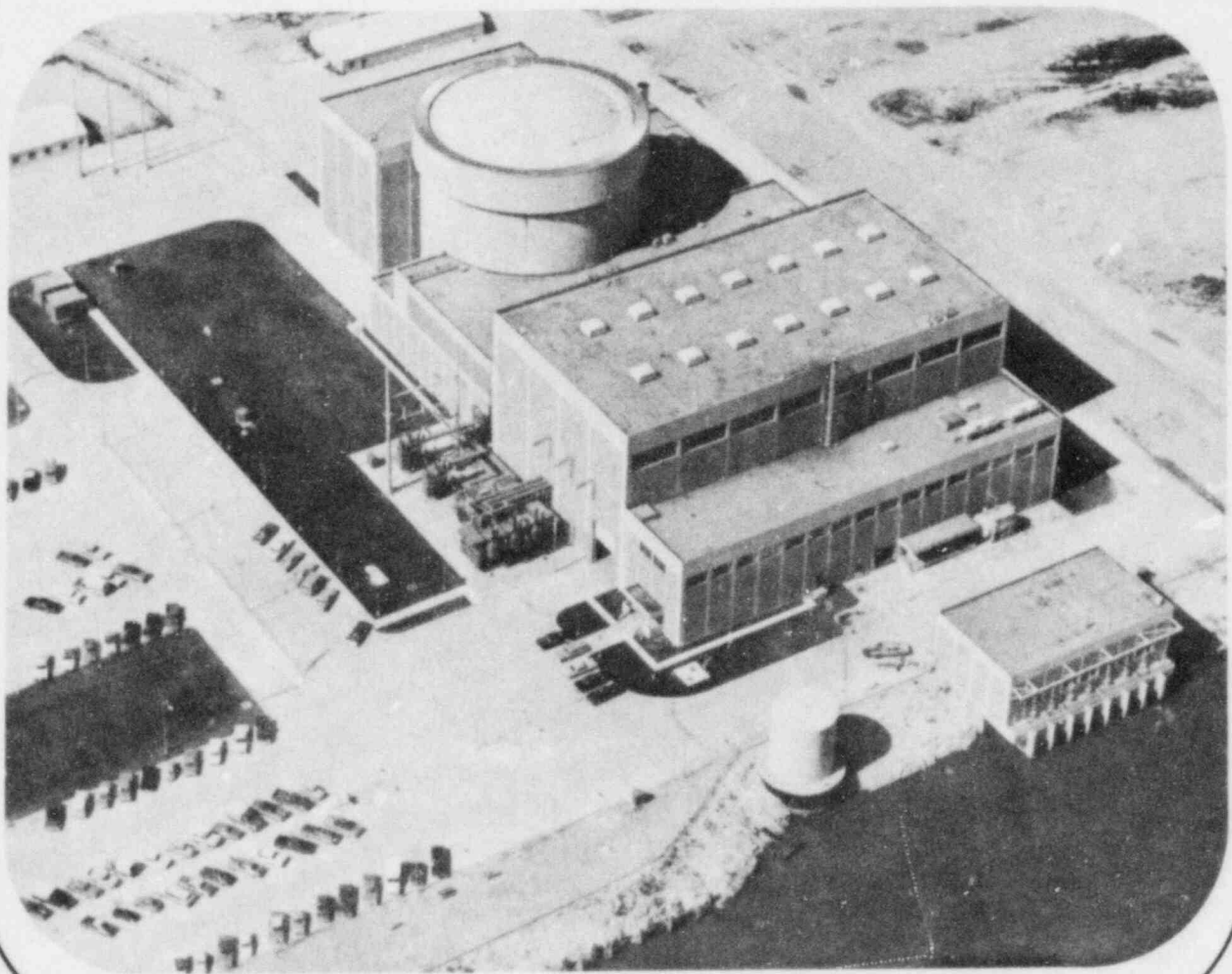


Omaha Public Power District Fort Calhoun Station Unit No. 1

Semi Annual Report
for
Technical Specification
Section 5.9.4

January 1, 1982 to June 30, 1982 inclusive



Docket No. 50-285

Operating License No. DPR-40

B209080195 B20830
PDR ADOCK 05000285
R PDR

I N T R O D U C T I O N

This report is submitted in accordance with Section 5.9.4 of the Technical Specifications of the Fort Calhoun Station Unit No. 1, Facility Operating License No. DPR-40.

This report covers only the period January 1, 1982, through June 30, 1982, inclusive, for the Semi-Annual Report for Technical Specification 5.9.4.

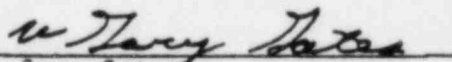

W. Gary Gates
Manager
Fort Calhoun Station

TABLE OF CONTENTS

<u>PART</u>	<u>SECTION</u>	<u>SECTION TITLE</u>
2	I	Radioactive Effluent Releases - Gaseous Effluents Technical Specification (5.9.4.a.1)
		Table 1A Summation of All Releases
		Table 1B Not Applicable
		Table 1C Summation of All Releases
	II	Radioactive Effluent Releases - Liquid Effluents Technical Specification (5.9.4.a.2)
		Table 2A Summation of All Releases
		Table 2B Summation of All Releases
	III	Radioactive Effluent Releases - Solid Radioactive Waste Technical Specification (5.9.4.a.3)
	IV	Joint Frequency Distribution Wind Direction vs. Wind Speed by Stability Class and Meteorology Data Per Batch Release (Regulatory Guide 1.21)
	V	Environmental Monitoring (5.9.4.b)
	VI	Potential Doses to Individuals and Populations (As Required by Safety Guide 23, Regulatory Guide 1.21)

PART 2

SECTION 1

RADIOACTIVE EFFLUENT RELEASES - GASEOUS EFFLUENTS
TECHNICAL SPECIFICATION (5.9.4.a.1)

Table 1A	Gaseous Effluents - Summation of All Releases
Table 1B	Not Applicable
Table 1C	Gaseous Effluents - Summation of All Releases

January 1, 1982 to June 30, 1982

I. Radioactive Effluent Releases (5.9.4.a.1)

A. GASEOUS EFFLUENTS

Radioactive gaseous releases for the reporting period totalled 119.1 Curies of inert gases. The highest release rate was $3.20E+01$ $\mu\text{Ci}/\text{sec.}$ or 0.04% of the Technical Specification limit (83,000 $\mu\text{Ci}/\text{sec.}$). Averaged over each calendar quarter of the reporting period, the gross gaseous activity release rates were $4.31E+00$ $\mu\text{Ci}/\text{sec.}$ or 0.005% and $1.09E+01$ $\mu\text{Ci}/\text{sec.}$ or 0.01% for each quarter respectively of the maximum release rate of the Technical Specifications (83,000 $\mu\text{Ci}/\text{sec.}$). This is 0.03% and 0.08% respectively of the 16% value specified (13,280 $\mu\text{Ci}/\text{sec.}$).

Radioactive halogens and particulates with half-lives greater than eight days released during the reporting period totalled $6.35E-04$ Curies. The highest release rate for halogens with half-lives greater than eight days was $1.34E-04$ $\mu\text{Ci}/\text{sec.}$ or 0.14% of the maximum release rate of the Technical Specifications (0.094 $\mu\text{Ci}/\text{sec.}$). The highest release rate for particulates with half-lives greater than eight days was $2.38E-05$ $\mu\text{Ci}/\text{sec.}$ or 1.19% of the maximum release rate of the Technical Specifications (0.002 $\mu\text{Ci}/\text{sec.}$). Averaged over each calendar quarter of the reporting period, the halogen release rates were $3.08E-05$ $\mu\text{Ci}/\text{sec.}$ or 0.03% and $4.75E-05$ $\mu\text{Ci}/\text{sec.}$ or 0.05% for each quarter respectively of the maximum release rate of the Technical Specifications (0.094 $\mu\text{Ci}/\text{sec.}$). This is 0.41% and 0.63% respectively of the 8% value specified (0.0075 $\mu\text{Ci}/\text{sec.}$).

Averaged over each calendar quarter of the reporting period, the particulate release rates were $1.34\text{E-}06$ $\mu\text{Ci/sec.}$ or 0.07% and $1.50\text{E-}06$ $\mu\text{Ci/sec.}$ or 0.08% for each quarter respectively of the maximum release rate of the Technical Specifications (0.002 $\mu\text{Ci/sec.}$). This is 0.84% and 0.94% respectively of the 8% value specified ($1.6\text{E-}04$ $\mu\text{Ci/sec.}$).

Radioactive tritium released during the reporting period totalled 4.08 Curies. Gross alpha radioactivity released during the reporting period totalled $3.55\text{E-}07$ Curies.

TABLE 1A

EFFLUENT AND WASTE DISPOSAL REPORT

GASEOUS EFFLUENTS-SUMMARY OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 82

NUCLIDES IN CURIES	1 QUARTER			2 QUARTER			TOTAL		
	CONT	DECAY	RM060	DECAY	RM060	TOTAL			
A. FISSIONACTIVATION GASES									
TOTAL RELEASE	CI	3.35E+01	0.0	0.0	3.35E+01	8.52E+01	4.34E-01	0.0	8.56E+01
AVG RELEASE RATE FOR PERIOD	UCI/SEC	4.31E+00	0.0	0.0	4.31E+00	1.08E+01	5.52E-02	0.0	1.09E+01
PERCENT OF LIMIT	%	3.24E-02	0.0	0.0	3.24E-02	8.16E-02	4.16E-04	0.0	8.20E-02
TECH SPEC = 13280									
B. IODINES									
TOTAL RELEASE	CI	0.0	0.0	2.40E-04	2.40E-04	0.0	0.0	3.73E-04	3.73E-04
IODINE - 131									
AVG RELEASE RATE FOR PERIOD	UCI/SEC	0.0	0.0	3.08E-05	3.08E-05	0.0	0.0	4.75E-05	4.75E-05
PERCENT OF LIMIT	%	0.0	0.0	4.10E-01	4.10E-01	0.0	0.0	6.32E-01	6.32E-01
TECH SPEC = .00752									
C. PARTICULATES									
PARTICULATES WITH HALF LIVES .GT. 8 DAYS									
AVG RELEASE RATE FOR PERIOD	UCI/SEC	0.0	0.0	1.04E-05	1.04E-05	0.0	0.0	1.18E-05	1.18E-05
PERCENT OF LIMIT	%	0.0	0.0	1.34E-06	1.34E-06	0.0	0.0	1.50E-06	1.50E-06
TECH SPEC = .00016									
GROSS ALPHA RADIOACTIVITY									
TOTAL RELEASE	CI	0.0	0.0	2.13E-07	2.13E-07	0.0	0.0	1.42E-07	1.42E-07
AVG RELEASE RATE FOR PERIOD	UCI/SEC	3.79E-01	0.0	0.0	3.79E-01	1.42E-01	1.50E-03	0.0	1.44E-01
PERCENT OF LIMIT	%	NONE							
TECH SPEC = NONE									

TABLE 1C

EFFLUENT AND WASTE DISPOSAL REPORT

GASEOUS EFFLUENTS-SUMMARY OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 82

NUCLIDES IN CURIES	1 QUARTER			2 QUARTER			TOTAL
	CONT	DECAY	RHO60	CONT	DECAY	RHO60	
FISSION GASES							
XENON-133	3.02E+01	0.0	0.0	3.02E+01	1.15E-01	0.0	7.91E+01
KRYPTON-85M	3.34E-03	0.0	0.0	3.34E-03	9.45E-02	0.0	9.46E-02
XENON-131M	3.55E-01	0.0	0.0	3.55E-01	1.09E-02	0.0	1.17E+00
KRYPTON-88	8.00E-03	0.0	0.0	8.00E-03	5.18E-02	0.0	5.18E-02
XENON-133M	1.92E-01	0.0	0.0	1.92E-01	1.71E-04	0.0	5.17E-01
XENON-135	5.21E-01	0.0	0.0	5.21E-01	1.49E+00	0.0	1.49E+00
KRYPTON-87	7.44E-03	0.0	0.0	7.44E-03	2.99E-02	0.0	2.99E-02
XENON-138	2.14E-02	0.0	0.0	2.14E-02	4.59E-05	0.0	2.72E-02
KRYPTON-85	7.15E-01	0.0	0.0	7.15E-01	3.08E-01	0.0	1.22E+00
XENON-135M	7.18E-03	0.0	0.0	7.18E-03	8.49E-03	0.0	8.50E-03
ARGON-41	1.45E+00	0.0	0.0	1.45E+00	3.26E-06	0.0	1.99E+00
TOTAL FOR PERIOD	3.35E+01	0.0	0.0	3.35E+01	4.34E-01	0.0	8.56E+01
IODINES							
IODINE-131 CTD.	0.0	0.0	2.40E-04	2.40E-04	0.0	3.73E-04	3.73E-04
IODINE-133 CTD.	0.0	0.0	2.34E-06	2.34E-06	0.0	2.32E-05	2.32E-05
IODINE-135 CTD.	0.0	0.0	1.02E-05	1.02E-05	0.0	1.9.68E-06	1.9.68E-06
TOTAL FOR PERIOD	0.0	0.0	2.52E-04	2.52E-04	0.0	4.08E-04	4.08E-04
PARTICULATES							
STRONTIUM-89	0.0	0.0	0.0*	0.0*	0.0	0.0*	0.0*
STRONTIUM-90	0.0	0.0	0.0*	0.0*	0.0	0.0*	0.0*
IODINE-131 PRF.	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IODINE-133 PRF.	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARIUM-140	0.0	0.0	4.23E-06	4.23E-06	0.0	4.67E-06	4.67E-06
CESIUM-137	0.0	0.0	2.25E-06	2.25E-06	0.0	3.27E-06	3.27E-06
CESIUM-134	0.0	0.0	2.06E-06	2.06E-06	0.0	2.28E-06	2.28E-06
COBALT-58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MANGANESE-54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COBALT-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IODINE-135 PRF.	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LANTHANUM-140	0.0	0.0	1.88E-06	1.88E-06	0.0	1.58E-06	1.58E-06
TOTAL FOR PERIOD	0.0	0.0	1.04E-05	1.04E-05	0.0	1.18E-05	1.18E-05
ALPHA, TRITIUM & OTHER							
ALPHA	0.0	0.0	2.13E-07	2.13E-07	0.0	1.42E-07	1.42E-07
TRITIUM	2.95E+00	0.0	0.0	2.95E+00	1.12E+00	0.0	1.13E+00
GROSS BETA/GAMMA	0.0	0.0	2.98E-05	2.98E-05	0.0	1.38E-04	1.38E-04

* Results not available at time of initial report.

Revision for Strontium 89-90 results will be provided upon receipt from Vendor.

PART 2
SECTION II

RADIOACTIVE EFFLUENT RELEASES - LIQUID EFFLUENTS
TECHNICAL SPECIFICATION (5.9.4.a.2)

Table 2A Liquid Effluents - Summation of All Releases

Table 2B Liquid Effluents - Summation of All Releases

January 1, 1982 to June 30, 1982

II. Radioactive Effluent Releases (5.9.4.a.2)

B. LIQUID EFFLUENTS

During the six months a total of $6.10\text{E-}02$ Curies of radioactive liquid materials less tritium and dissolved noble gases were released to the Missouri River at an average concentration of $9.47\text{E-}11$ $\mu\text{Ci/ml}$. This represents 0.09% of the limits specified in Appendix B to 10CFR20 ($1.0\text{E-}07$ $\mu\text{Ci/ml}$) for unrestricted areas. The maximum concentration of total activity (excluding tritium) released to the unrestricted area and averaged during the release was $3.22\text{E-}07$ $\mu\text{Ci/ml}$ primarily due to the inclusion of dissolved noble gases.

Dilution water during the period amounted to $6.44\text{E+}11$ liters, while radioactive liquid waste volume was $4.26\text{E+}07$ liters including 178 batch releases and steam generator blowdown.

Additionally, 209.7 Curies of tritium were discharged at an average concentration of $3.32\text{E-}07$ $\mu\text{Ci/ml}$ or 0.01% of MPC ($3.0\text{E-}03$ $\mu\text{Ci/ml}$).

Gross alpha radioactivity released during the reporting period totalled $2.67\text{E-}05$ Curies and was discharged at an average concentration of $4.15\text{E-}14$ $\mu\text{Ci/ml}$ or $1.38\text{E-}04\%$ of MPC ($3.0\text{E-}08$ $\mu\text{Ci/ml}$).

During the two calendar quarters in the reporting period, $3.22\text{E-}02$ Curies and $2.87\text{E-}02$ Curies of radioactive liquids

were released. This represents 0.32% and 0.29% of the
10 Curie per calendar quarter specified as the Technical
Specification limit.

TABLE 2A

EFFLUENT AND WASTE DISPOSAL REPORT

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 82

		1 QUARTER	2 QUARTER
A. FISSION&ACTIVATION PRODUCTS			
TOTAL RELEASE (NO TRITIUM,GAS,ALPHA)	CI	3.23E-02	2.87E-02
AVG DILUTED CONCENTRATION	UCI/ML	9.78E-11	9.15E-11
PERCENT OF LIMIT			
TECH SPEC = 3.0E-8	%	3.26E-01	3.05E-01
B. TRITIUM			
TOTAL RELEASE	CI	2.07E+01	1.89E+02
AVG DILUTED CONCENTRATION	UCI/ML	6.27E-08	6.01E-07
PERCENT OF LIMIT			
TECH SPEC = 3.0E-3	%	2.09E-03	2.00E-02
C. DISSOLVED&ENTRAINED GASES			
TOTAL RELEASE	CI	1.25E+00	1.72E-01
AVG DILUTED CONCENTRATION	UCI/ML	3.80E-09	5.48E-10
PERCENT OF LIMIT	%		
D. GROSS ALPHA RADIOACTIVITY			
TOTAL RELEASE	CI	2.22E-05	4.47E-06
E. VOLUME OF WASTE RELEASE			
PRIOR TO DIL.	LITERS	2.01E+07	2.25E+07
F. VOLUME OF DILUTION WATER			
THIS PERIOD	LITERS	3.30E+11	3.14E+11

TABLE 2B

EFFLUENT AND WASTE DISPOSAL REPORT

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 82

NUCLIDES IN CURIES	1 QUARTER		2 QUARTER	
	CONT	BATCH	CONT	BATCH
STRONTIUM-89	0.0*	0.0*	0.0*	0.0*
STRONTIUM-90	0.0*	0.0*	0.0*	0.0*
COBALT-57	$\leq 4.35E-04$	$\leq 1.20E-04$	$\leq 4.93E-04$	$\leq 8.16E-05$
MOLYBDENUM-99	$\leq 3.68E-04$	$\leq 9.90E-05$	$\leq 3.28E-04$	$\leq 6.14E-05$
TECHNETIUM-99M	$\leq 1.79E-04$	$\leq 4.81E-05$	$\leq 1.60E-04$	$\leq 2.98E-05$
CERIUM-141	$\leq 7.35E-04$	$\leq 1.87E-04$	$\leq 8.24E-04$	$\leq 1.33E-04$
TIN-117M	$\leq 3.91E-04$	$\leq 1.09E-04$	$\leq 4.14E-04$	$\leq 7.36E-05$
CHROMIUM-51	$\leq 3.36E-03$	$\leq 8.03E-04$	$\leq 3.47E-03$	$\leq 6.15E-04$
IODINE-131	$\leq 8.17E-04$	$\leq 4.47E-04$	$\leq 4.05E-04$	$\leq 2.00E-03$
IODINE-133	$\leq 4.48E-04$	$\leq 1.11E-04$	$\leq 3.75E-04$	$\leq 7.69E-05$
BARIUM-140	$\leq 1.10E-03$	$\leq 2.85E-04$	$\leq 9.90E-04$	$\leq 2.00E-04$
RUTHENIUM-103	$\leq 4.38E-04$	$\leq 1.06E-04$	$\leq 3.81E-04$	$\leq 7.58E-05$
CESIUM-137	$\leq 5.51E-04$	$\leq 5.05E-03$	$\leq 8.75E-04$	$\leq 6.06E-03$
ZIRCONIUM-95	$\leq 7.91E-04$	$\leq 1.26E-04$	$\leq 6.70E-04$	$\leq 1.55E-04$
NIObIUM-95	$\leq 4.11E-04$	$\leq 7.44E-05$	$\leq 3.38E-04$	$\leq 4.64E-05$
CESIUM-134	$\leq 4.56E-04$	$\leq 2.61E-03$	$\leq 6.14E-04$	$\leq 3.07E-03$
COBALT-58	$\leq 4.56E-04$	$\leq 5.73E-03$	$\leq 3.85E-04$	$\leq 8.22E-04$
MANGANESE-54	$\leq 4.24E-04$	$\leq 1.85E-04$	$\leq 3.69E-04$	$\leq 4.67E-05$
CESIUM-136	$\leq 5.55E-04$	$\leq 7.77E-05$	$\leq 4.63E-04$	$\leq 6.66E-05$
IRON-59	$\leq 8.10E-04$	$\leq 1.15E-04$	$\leq 7.38E-04$	$\leq 8.10E-05$
ZINC-65	$\leq 1.04E-03$	$\leq 1.34E-04$	$\leq 9.77E-04$	$\leq 9.20E-05$
COBALT-60	$\leq 3.70E-04$	$\leq 7.07E-04$	$\leq 4.58E-04$	$\leq 3.78E-04$
LANTHANUM-140	$\leq 3.82E-04$	$\leq 3.19E-05$	$\leq 2.75E-04$	$\leq 2.61E-05$
ANTIMONY-124	$\leq 4.30E-04$	$\leq 1.63E-04$	$\leq 4.37E-04$	$\leq 1.15E-04$
TOTAL FOR PERIOD	$1.49E-02$	$1.73E-02$	$1.44E-02$	$1.43E-02$
DISSOLVED GASES ENTRAINED GASES				
XENON-133	$\leq 1.66E-03$	$1.25E+00$	$2.44E-03$	$1.67E-01$
XENON-135	$\leq 3.76E-04$	$4.69E-03$	$\leq 3.77E-04$	$1.95E-03$
TOTAL FOR PERIOD	$2.04E-03$	$1.25E+00$	$2.81E-03$	$1.69E-01$
OTHER - ALPHA & TRITIUM				
ALPHA	$6.92E-06$	$1.52E-05$	$3.56E-06$	$9.16E-07$
TRITIUM	$1.14E-02$	$2.07E+01$	$6.03E-02$	$1.89E+02$
GROSS BETA/GAMMA	0.0	0.0	0.0	0.0
TOTAL FOR PERIOD	$1.14E-02$	$2.07E+01$	$6.03E-02$	$1.89E+02$
AVG. CONC. IN UCI/ML				
ALPHA	$1.48E-13$	$9.44E-12$	$9.29E-14$	$5.43E-13$
TRITIUM	$2.23E-10$	$7.69E-06$	$1.23E-09$	$1.10E-04$

* Results not available at time of initial report. revision for Strontium 89-90 results will be provided upon receipt from Vendor.

PART 2
SECTION III

RADIOACTIVE EFFLUENT RELEASES - SOLID RADIOACTIVE WASTE
TECHNICAL SPECIFICATION (5.9.4.a.3)

January 1, 1982 to June 30, 1982

III. RADIOACTIVE EFFLUENT RELEASES - SOLID RADIOACTIVE WASTE EFFLUENT AND
WASTE DISPOSAL REPORT

January 1, 1982 through June 30, 1982

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED)

1. Type of Waste	Month Shipped	Number of Shipments	Volume cu. meter	Curie Content	Est. Total % Error
a. Spent resins, filter sludges, evaporator bottoms, etc.	January	7	61.59	6.880	20%
	February	3	12.74	3.443	20%
	March	2	21.66	1.953	20%
	April	2	3.82	0.402	20%
	May	2	13.81	1.440	20%
	June	1	5.52	0.606	20%
Six Month Total (Type A)		17	119.14	14.724	
b. Dry compressable, contaminated equipment, etc.	January	5	25.29	1.631	20%
	February	3	23.80	3.156	20%
	March	3	15.33	0.133	20%
	April	2	21.75	0.065	20%
	May	2	13.38	0.777	20%
	June	1	7.25	0.011	20%
Six Month Total (Type B)		16	106.80	5.773	

III. (continued)

1. Type of Waste	Month Shipped	Number of Shipments	Volume cu. meter	Curie Content	Est. Table % Error
c. Irradiated Components and other Categories	January	0	0	0	NA
	February	0	0	0	NA
	March	0	0	0	NA
	April	0	0	0	NA
	May	0	0	0	NA
	June	0	0	0	NA
Six Month Total (Type C)		0	0	0	NA

B. ESTIMATE OF MAJOR NUCLIDE COMPOSITION (By Type of Waste)

a)	Cs-137	59%	8.68
	Cs-134	31%	4.56
	Co-58	9%	1.33
	Co-60	1%	0.15
b)	Cs-137	59%	3.41
	Cs-134	31%	1.79
	Co-58	9%	0.52
	Co-60	1%	0.06

All other nuclides constitute less than 0.5 %.

C. SOLID WASTE (DISPOSITION)

Number of shipments

6
12

Transportation Mode

Closed Sole Use Vehicle
Closed Sole Use Vehicle

Destination

Barnwell, S. Carolina
Richland, Washington

D. IRRADIATED FUEL SHIPMENTS (DISPOSITION)

Number of shipments

0

Transportation Mode

NA

Destination

NA

PART 2
SECTION IV

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND
SPEED BY STABILITY CLASS AND METEOROLOGY DATA
PER BATCH RELEASE

(Regulatory Guide 1.21)

January 1, 1982 to June 30, 1982

IV. JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED BY
STABILITY CLASS AND METEOROLOGY DATA PER BATCH RELEASE

- A. Meteorology data per batch tables will have -99 values
signifying either invalid data or no data available.

TABLE 158 - A

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OHAMA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DATA USED -- WD10 *WS10 *DI100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	FREQUENCY DISTRIBUTION										TOTAL	UBAR					
	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9			5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO INF
NNE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
ENE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
E	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
ESE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SSE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.5
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
W	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
N	0.	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.	0.	0.	0.	0.	0.	2.	0.	0.	0.	7.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.1

TABLE 158 - D

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -0.5 TO -1.4 IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0	9.0	TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.9	6.9	7.9	8.9	INF		
NNE	0.	1.	3.	9.	10.	12.	7.	7.	0.	1.	0.	0.	0.	0.	0.	50.	2.5
NE	0.	1.	1.	2.	3.	4.	6.	4.	3.	1.	0.	0.	0.	0.	0.	25.	2.8
ENE	0.	1.	4.	2.	7.	2.	9.	17.	7.	3.	1.	1.	0.	0.	0.	54.	3.3
E	0.	1.	0.	1.	6.	5.	4.	7.	10.	6.	5.	4.	2.	0.	0.	51.	4.0
ESE	0.	0.	2.	8.	6.	2.	3.	9.	3.	4.	5.	6.	0.	0.	0.	48.	3.6
SE	0.	0.	0.	2.	3.	0.	7.	10.	6.	7.	10.	12.	6.	7.	8.	78.	5.6
SSE	0.	0.	2.	4.	2.	10.	5.	5.	6.	5.	13.	9.	10.	4.	5.	80.	5.1
S	0.	0.	1.	2.	2.	0.	2.	2.	4.	3.	6.	8.	3.	7.	4.	44.	5.8
SSW	0.	1.	2.	2.	2.	5.	7.	2.	2.	5.	2.	1.	4.	7.	4.	44.	5.8
SW	0.	0.	1.	2.	2.	1.	0.	1.	4.	1.	3.	1.	4.	1.	7.	43.	4.8
WSW	0.	1.	2.	3.	2.	6.	7.	0.	2.	0.	3.	0.	2.	2.	0.	24.	5.5
W	0.	0.	6.	6.	8.	6.	0.	2.	1.	4.	7.	3.	2.	2.	0.	30.	3.5
WNW	0.	0.	4.	5.	5.	6.	7.	15.	7.	9.	24.	13.	7.	2.	0.	45.	3.4
NW	0.	0.	6.	4.	12.	6.	19.	23.	24.	14.	18.	24.	9.	3.	5.	104.	4.5
NNW	0.	0.	4.	18.	31.	21.	47.	46.	33.	20.	6.	6.	4.	0.	0.	167.	4.5
N	0.	0.	6.	10.	17.	11.	15.	5.	3.	1.	1.	0.	0.	0.	0.	236.	3.4
TOTAL	0.	6.	44.	80.	118.	97.	145.	155.	115.	84.	104.	87.	51.	27.	35.	1148.	4.1

NUMBER OF INVALID OBSERVATIONS= 25.

PERCENT OF VALID OBSERVATIONS= 54.1

TABLE 158 - E

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -0.4 TO +1.5 IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	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.	3.	0.7
NE	0.	4.	4.	2.	2.	0.	0.	2.	0.	0.	1.	0.	1.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.	1.5	
ENE	0.	0.	2.	2.	1.	4.	0.	1.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	12.	2.0	10.	1.5
E	0.	0.	4.	3.	3.	4.	5.	4.	8.	0.	8.	0.	1.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	30.	2.7	30.	2.7
ESE	0.	0.	1.	1.	13.	9.	10.	13.	9.	10.	12.	10.	3.	0.	10.	3.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	3.0	63.	3.0
SE	0.	0.	0.	5.	10.	8.	10.	10.	8.	12.	13.	10.	4.	4.	10.	4.	4.	7.	7.	6.	11.	10.	7.	0.	0.	0.	0.	0.	89.	3.6	89.	3.6
SSE	1.	3.	3.	2.	2.	2.	2.	2.	6.	2.	4.	3.	11.	4.	4.	3.	11.	4.	4.	4.	10.	7.	2.	2.	2.	1.	4.	57.	4.3	57.	4.3	
S	0.	0.	0.	5.	3.	4.	3.	3.	4.	4.	0.	0.	1.	1.	1.	1.	5.	5.	5.	7.	7.	7.	11.	7.	7.	3.	1.	48.	5.1	48.	5.1	
SSW	0.	0.	2.	2.	1.	4.	1.	4.	1.	1.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	3.	3.	4.	4.	4.	1.	1.	32.	4.7	32.	4.7	
SW	0.	0.	7.	3.	3.	2.	1.	3.	1.	1.	3.	3.	3.	3.	2.	3.	3.	3.	3.	0.	0.	2.	4.	0.	0.	0.	0.	28.	2.9	28.	2.9	
WSW	0.	0.	9.	6.	6.	6.	6.	6.	6.	1.	3.	5.	2.	2.	2.	2.	2.	2.	2.	2.	3.	3.	2.	2.	0.	0.	0.	41.	2.5	41.	2.5	
W	0.	0.	7.	13.	9.	9.	9.	9.	6.	6.	4.	8.	8.	4.	8.	3.	3.	3.	3.	2.	2.	1.	1.	1.	0.	0.	0.	0.	54.	2.3	54.	2.3
WNW	1.	6.	6.	26.	20.	20.	20.	20.	8.	8.	14.	12.	4.	4.	12.	4.	4.	4.	4.	4.	9.	9.	1.	0.	0.	0.	0.	113.	2.5	113.	2.5	
NW	0.	0.	8.	7.	7.	9.	9.	9.	9.	12.	6.	6.	6.	6.	5.	5.	6.	6.	6.	3.	3.	5.	0.	0.	0.	0.	0.	90.	2.4	90.	2.4	
NNW	0.	0.	4.	1.	4.	6.	6.	6.	6.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	15.	1.6	15.	1.6	
N	0.	0.	6.	6.	5.	5.	5.	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	17.	1.1	17.	1.1	
TOTAL	2.	66.	66.	84.	111.	71.	71.	71.	57.	57.	68.	68.	56.	45.	23.	23.	45.	45.	45.	51.	51.	31.	31.	15.	15.	16.	6.	702.	3.0	702.	3.0	

NUMBER OF INVALID OBSERVATIONS= 5.

PERCENT OF VALID OBSERVATIONS= 33.1

TABLE 158 - F

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX
 OPAHA PUBLIC POWER DISTRICT
 FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = +1.6 TO +4.0 IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO 9.9	TOTAL	UBAR
NNE	0.	0.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	1.4
NE	0.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.8
ENE	0.	0.	1.	0.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	2.2
E	0.	0.	2.	2.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	5.	1.8
ESE	0.	1.	2.	0.	3.	0.	0.	0.	1.	0.	1.	0.	0.	0.	0.	8.	2.3
SE	0.	3.	1.	0.	2.	2.	0.	0.	3.	1.	0.	0.	0.	0.	0.	12.	2.4
SSE	0.	2.	2.	1.	1.	1.	0.	0.	2.	0.	0.	0.	0.	0.	0.	9.	2.1
S	0.	3.	0.	1.	2.	5.	3.	4.	3.	5.	2.	1.	0.	0.	0.	29.	3.4
SSW	0.	2.	4.	2.	0.	2.	2.	3.	1.	5.	5.	5.	0.	0.	2.	33.	4.2
SW	0.	2.	2.	2.	0.	1.	0.	1.	1.	5.	4.	0.	0.	0.	0.	18.	3.4
WSW	0.	1.	4.	0.	0.	0.	0.	0.	0.	2.	0.	1.	0.	0.	0.	8.	2.7
W	0.	4.	4.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	12.	1.2
WNW	0.	5.	6.	7.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	22.	1.5
NW	0.	5.	3.	1.	2.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	12.	1.2
NNW	0.	4.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	1.0
N	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.1
TOTAL	0.	34.	36.	22.	15.	14.	5.	9.	11.	18.	13.	7.	0.	0.	2.	186.	2.6

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 8.8

TABLE 158 - G

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = +4.1 TO +INF IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.	0.	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.	1.	0.6
NE	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.	3.	0.7	
ENE	0.	0.	2.	3.	1.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	1.3	
E	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.	4.	0.9	
ESE	0.	0.	1.	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.	3.	1.0	
SE	0.	0.	1.	0.	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.	2.	1.1	
SSE	0.	0.	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.	1.	0.5	
S	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	3.1	
SSW	0.	0.	0.	0.	0.	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.	5.5	
SW	0.	0.	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.	12.	6.6	
WSW	0.	0.	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.	1.	0.9	
W	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WNW	0.	0.	0.	0.	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
NW	0.	0.	2.	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.	1.	1.1	
NNW	0.	0.	0.	0.	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.	3.	0.7	
N	0.	0.	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.	1.	1.1	
TOTAL	0.	0.	16.	10.	2.	1.	1.	2.	1.	1.	1.	2.	1.	2.	1.	1.	2.	1.	2.	1.	2.	1.	2.	1.	2.	1.	2.	1.	52.	3.1		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 2.3

TABLE 158 - ALL

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -INF TO +INF IN FREQUENCY DATA USED -- WD10 *WS10 *DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	DT100 = -INF TO +INF IN FREQUENCY										DATA USED -- WD10 *WS10 *DT100										TOTAL	UBAR
	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO INF							
NNE	0.	5.	4.	11.	10.	12.	7.	8.	0.	1.	0.	0.	0.	0.	0.	58.	2.3					
NF	0.	10.	4.	5.	3.	4.	7.	5.	3.	1.	0.	0.	0.	0.	0.	42.	2.2					
ENE	0.	5.	10.	4.	12.	4.	12.	17.	8.	3.	1.	0.	0.	0.	0.	77.	2.8					
E	0.	7.	7.	7.	11.	13.	6.	8.	11.	6.	5.	4.	2.	3.	0.	90.	3.3					
ESE	0.	3.	7.	21.	18.	12.	15.	19.	17.	4.	7.	7.	0.	4.	0.	124.	3.2					
SE	0.	4.	6.	13.	13.	14.	20.	20.	13.	16.	21.	19.	10.	8.	8.	185.	4.4					
SSE	1.	6.	6.	7.	9.	13.	9.	8.	19.	9.	23.	11.	15.	6.	9.	151.	4.7					
S	0.	3.	6.	6.	9.	6.	6.	7.	13.	9.	15.	20.	10.	10.	5.	125.	4.9					
SSW	0.	5.	8.	5.	6.	8.	11.	8.	6.	11.	12.	13.	8.	5.	10.	116.	4.6					
SW	0.	10.	6.	6.	3.	3.	3.	4.	8.	7.	15.	8.	6.	2.	8.	89.	4.4					
WSW	0.	12.	12.	9.	4.	9.	12.	2.	4.	4.	6.	3.	2.	2.	0.	81.	2.9					
W	0.	11.	23.	18.	16.	7.	4.	10.	4.	6.	9.	4.	2.	0.	0.	114.	2.6					
WNW	1.	11.	37.	32.	16.	14.	22.	27.	11.	13.	35.	15.	9.	2.	0.	245.	3.3					
NW	0.	15.	17.	34.	23.	19.	25.	28.	30.	17.	24.	25.	9.	3.	5.	274.	3.7					
NNW	0.	8.	8.	25.	38.	21.	47.	46.	33.	20.	6.	6.	4.	0.	0.	262.	3.2					
N	0.	7.	13.	15.	17.	11.	15.	7.	3.	1.	1.	0.	0.	0.	0.	90.	2.3					
TOTAL	2.	122.	174.	218.	208.	170.	221.	224.	173.	128.	180.	136.	77.	45.	2123.	3.6						

NUMBER OF INVALID OBSERVATIONS= 37.

PERCENT OF VALID OBSERVATIONS= 98.1

TABLE 159 - A

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -2.0 TO -INF IN PERCENT DATA USED -- WD10 *WS10 *DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR				
	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF	TO	INF								
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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 INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.1

TABLE 159 - B

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -1.7 TO -1.9 IN PERCENT DATA USED -- WD10 *WS10 *DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO INF	TOTAL	UBAR
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	3.7
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.05	7.1
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.14	6.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.04	7.1
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.05	0.09	0.0	0.0	0.0	0.28	6.0

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.3

TABLE 159 - C

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DI100 = -1.5 TO -1.6 IN PERCENT DATA USED -- WD10 ,WS10 ,DI100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	1.8
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	5.6
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	4.6
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.14	7.7		
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.19	5.5
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	2.3		
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	3.5		
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.05	0.0	0.05	0.04	0.0	0.0	0.0	0.0	0.19	5.8	
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.0	0.04	0.0	0.0	0.0	0.0	0.09	5.7		
NNW	0.0	0.0	0.0	0.0	0.0	0.09	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.9		
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	3.6		
TOTAL	0.0	0.0	0.0	0.0	0.0	0.14	0.15	0.05	0.05	0.05	0.05	0.05	0.0	0.14	0.28	0.19	0.13	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	4.7		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 1.3

TABLE 159 - D

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -0.5 TO -1.4 IN PERCENT

DATA USED -- WD10 *WS10 *DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
NNE	0.0	0.0	0.05	0.14	0.42	0.47	0.56	0.33	0.33	0.33	0.0	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.35	2.5
NE	0.0	0.0	0.05	0.05	0.09	0.14	0.19	0.28	0.19	0.14	0.05	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.18	2.8
ENE	0.0	0.0	0.05	0.19	0.09	0.33	0.09	0.42	0.80	0.33	0.47	0.28	0.14	0.05	0.14	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.54	3.3
E	0.0	0.0	0.05	0.0	0.05	0.28	0.24	0.19	0.33	0.47	0.14	0.09	0.14	0.23	0.19	0.09	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.40	4.0
ESE	0.0	0.0	0.0	0.10	0.38	0.28	0.09	0.14	0.42	0.14	0.19	0.24	0.19	0.24	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.26	3.6
SE	0.0	0.0	0.0	0.0	0.09	0.14	0.0	0.33	0.47	0.28	0.33	0.47	0.28	0.47	0.57	0.28	0.33	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	3.67	5.6
SSE	0.0	0.0	0.0	0.09	0.19	0.09	0.47	0.24	0.24	0.28	0.24	0.24	0.28	0.61	0.42	0.47	0.19	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	3.77	5.1
S	0.0	0.0	0.0	0.05	0.10	0.09	0.0	0.09	0.09	0.19	0.14	0.09	0.14	0.28	0.38	0.14	0.33	0.19	0.33	0.19	0.33	0.19	0.33	0.19	0.33	0.19	0.33	0.19	0.33	0.19	2.07	5.8
SSW	0.0	0.0	0.05	0.10	0.09	0.09	0.24	0.33	0.09	0.09	0.24	0.09	0.24	0.09	0.05	0.19	0.05	0.33	0.05	0.33	0.05	0.33	0.05	0.33	0.05	0.33	0.05	0.33	0.05	0.33	2.03	4.8
SW	0.0	0.0	0.0	0.05	0.09	0.09	0.05	0.0	0.05	0.19	0.05	0.0	0.05	0.14	0.0	0.09	0.05	0.28	0.0	0.28	0.0	0.28	0.0	0.28	0.0	0.28	0.0	0.28	0.0	0.28	1.13	5.5
WSW	0.0	0.0	0.05	0.10	0.14	0.10	0.28	0.33	0.0	0.05	0.09	0.0	0.05	0.14	0.0	0.09	0.05	0.28	0.0	0.28	0.0	0.28	0.0	0.28	0.0	0.28	0.0	0.28	0.0	0.28	1.41	3.5
W	0.0	0.0	0.0	0.28	0.24	0.38	0.28	0.0	0.10	0.05	0.10	0.05	0.19	0.33	0.14	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.12	3.4
WNW	0.0	0.0	0.0	0.19	0.24	0.24	0.28	0.33	0.33	0.71	0.33	0.42	1.13	0.66	1.13	0.66	1.13	0.66	1.13	0.66	1.13	0.66	1.13	0.66	1.13	0.66	1.13	0.66	1.13	0.66	4.90	4.5
NW	0.0	0.0	0.0	0.28	0.19	0.57	0.28	0.90	1.08	1.13	1.13	0.94	2.21	2.17	1.56	0.28	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	7.87	4.5
NNW	0.0	0.0	0.0	0.19	0.85	1.46	0.99	2.21	2.17	1.56	1.56	0.94	2.21	2.17	1.56	0.28	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	11.12	3.4
N	0.0	0.0	0.0	0.28	0.47	0.80	0.52	0.71	0.23	0.14	0.05	0.05	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.25	2.6
TOTAL	0.0	0.0	0.30	2.09	3.76	5.55	4.56	6.83	7.30	5.41	3.97	4.89	4.10	2.38	1.27	1.66	54.07	4.1														

NUMBER OF INVALID OBSERVATIONS= 25.

PERCENT OF VALID OBSERVATIONS= 54.1

TABLE 159 - E

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -0.4 TO +1.5 IN PERCENT DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION, NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		TOTAL	UBAR	
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM			
NNE	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.7
NE	0.0	0.19	0.09	0.0	0.09	0.0	0.0	0.0	0.05	0.05	0.0	0.05	0.0	0.05	0.0	0.05	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	1.5	
ENE	0.0	0.10	0.09	0.05	0.19	0.0	0.0	0.09	0.0	0.09	0.0	0.09	0.0	0.05	0.0	0.05	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	2.0	
E	0.0	0.19	0.14	0.19	0.23	0.38	0.0	0.19	0.23	0.38	0.0	0.19	0.23	0.05	0.0	0.05	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.41	2.7	
ESE	0.0	0.05	0.05	0.61	0.42	0.47	0.57	0.47	0.57	0.47	0.47	0.57	0.47	0.14	0.0	0.14	0.0	0.14	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.97	3.0	
SE	0.0	0.0	0.24	0.47	0.38	0.56	0.61	0.47	0.38	0.56	0.61	0.47	0.19	0.28	0.19	0.28	0.19	0.28	0.19	0.28	0.19	0.28	0.19	0.33	0.09	0.05	0.0	4.19	3.6		
SSE	0.05	0.14	0.10	0.10	0.28	0.09	0.19	0.0	0.0	0.0	0.0	0.0	0.19	0.14	0.52	0.19	0.52	0.19	0.52	0.19	0.52	0.19	0.47	0.09	0.09	0.05	0.19	2.69	4.3		
S	0.0	0.0	0.23	0.14	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.23	0.05	0.23	0.05	0.23	0.05	0.23	0.05	0.33	0.52	0.33	0.14	0.05	0.05	2.26	5.1		
SSW	0.0	0.10	0.09	0.05	0.19	0.05	0.05	0.09	0.05	0.05	0.09	0.05	0.09	0.09	0.05	0.09	0.05	0.09	0.05	0.09	0.05	0.14	0.19	0.19	0.0	0.0	0.0	1.51	4.7		
SW	0.0	0.33	0.14	0.10	0.10	0.05	0.05	0.14	0.09	0.05	0.14	0.09	0.14	0.09	0.14	0.09	0.14	0.09	0.14	0.09	0.14	0.09	0.19	0.19	0.0	0.0	0.0	1.32	2.9		
WSW	0.0	0.42	0.28	0.28	0.05	0.14	0.24	0.10	0.10	0.10	0.24	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.14	0.09	0.0	0.0	0.0	0.0	1.93	2.5		
W	0.0	0.33	0.61	0.42	0.28	0.0	0.19	0.38	0.14	0.19	0.38	0.14	0.19	0.38	0.14	0.19	0.38	0.14	0.19	0.38	0.14	0.05	0.05	0.0	0.0	0.0	0.0	2.54	2.3		
WNW	0.05	0.28	1.22	0.94	0.38	0.38	0.66	0.56	0.19	0.19	0.66	0.56	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.42	0.05	0.0	0.0	0.0	0.0	5.32	2.5		
NW	0.0	0.38	0.33	1.37	0.42	0.56	0.28	0.24	0.24	0.24	0.28	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.14	0.0	0.0	0.0	0.0	0.0	0.0	4.24	2.4		
NNW	0.0	0.19	0.05	0.19	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71	1.6		
N	0.0	0.28	0.28	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	0.0	0.0	0.0	0.0	0.0	0.80	1.1		
TOTAL	0.10	3.12	3.94	5.24	3.34	2.68	3.20	2.64	2.12	1.08	2.40	1.46	0.70	0.76	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	33.07	3.0		

NUMBER OF INVALID OBSERVATIONS= 5.

PERCENT OF VALID OBSERVATIONS= 33.1

TABLE 159 - G

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = *.4.1 TO *.INF IN PERCENT DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
NNE	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.6
NE	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.7
ENE	0.0	0.09	0.14	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	1.3
E	0.0	0.10	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.9
ESE	0.0	0.05	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.0
SE	0.0	0.05	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	1.1
SSE	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.5
S	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	3.1
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	5.5
SW	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.04	0.0	0.0	0.56	6.6		
WSW	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.9		
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.09	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	1.1
NNW	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.7
N	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	1.1
TOTAL	0.0	0.77	0.47	0.09	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.05	0.10	0.05	0.05	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.24	0.19	0.04	0.09	0.09	2.45	3.1

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 2.3

TABLE 159 - ALL

DATA PERIOD 01/01/1982 THROUGH 03/31/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -INF TO +INF IN PERCENT DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR		
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM			TO	FROM
NNE	0.0	0.23	0.19	0.52	0.47	0.56	0.33	0.38	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.73	2.3
NE	0.0	0.47	0.19	0.24	0.14	0.19	0.33	0.23	0.14	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	2.2
ENE	0.0	0.24	0.47	0.19	0.56	0.19	0.56	0.80	0.38	0.14	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.63	2.8
E	0.0	0.33	0.33	0.33	0.52	0.61	0.28	0.38	0.52	0.28	0.24	0.19	0.09	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.33	0.0	0.19	0.0	0.0	0.0	0.0	0.0	4.24	3.3
ESE	0.0	0.14	0.33	0.99	0.85	0.56	0.71	0.89	0.33	0.19	0.33	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.33	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	5.84	3.2
SE	0.0	0.19	0.28	0.61	0.61	0.66	0.94	0.94	0.61	0.75	0.99	0.47	0.38	0.42	1.08	0.52	0.71	0.28	0.42	0.24	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	8.71	4.4	
SSE	0.05	0.28	0.28	0.33	0.43	0.61	0.42	0.38	0.90	0.42	1.08	0.42	0.38	0.90	0.42	0.94	0.71	0.28	0.42	0.24	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	7.11	4.7	
S	0.0	0.14	0.28	0.28	0.43	0.28	0.28	0.33	0.61	0.43	0.71	0.43	0.33	0.61	0.43	0.94	0.47	0.28	0.42	0.24	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	5.89	4.9	
SSW	0.0	0.24	0.38	0.23	0.28	0.38	0.52	0.38	0.28	0.28	0.52	0.33	0.38	0.28	0.56	0.61	0.38	0.23	0.47	0.24	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	5.46	4.6	
SW	0.0	0.47	0.28	0.28	0.14	0.14	0.14	0.19	0.38	0.14	0.14	0.19	0.38	0.28	0.71	0.38	0.28	0.09	0.38	0.24	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	4.19	4.4	
WSW	0.0	0.57	0.57	0.42	0.19	0.42	0.57	0.10	0.19	0.19	0.28	0.19	0.19	0.19	0.28	0.14	0.09	0.09	0.0	0.0	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	3.82	2.9	
W	0.0	0.52	1.08	0.85	0.75	0.33	0.19	0.47	0.19	0.28	0.42	0.19	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	5.37	2.6	
WNW	0.05	0.52	1.74	1.51	0.75	0.66	1.04	1.27	0.52	0.61	1.65	0.71	0.42	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	11.54	3.3	
NW	0.0	0.71	0.80	1.60	1.08	0.90	1.18	1.32	1.41	0.80	1.13	1.18	1.18	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	12.91	3.7	
NNW	0.0	0.38	0.38	1.18	1.79	0.99	2.21	2.17	1.55	0.94	0.28	0.28	0.28	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	12.34	3.2	
N	0.0	0.33	0.61	0.71	0.80	0.52	0.70	0.33	0.14	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.90	0.47	0.38	0.38	0.42	0.24	0.24	0.24	4.24	2.3	
TOTAL	0.10	5.76	8.19	10.27	9.79	8.00	10.40	10.56	8.15	6.03	8.48	6.42	2.10	3.62	2.10	3.62	2.10	3.62	2.10	3.62	8.48	6.42	2.10	3.62	2.10	3.62	2.10	3.62	100.00	3.6		

NUMBER OF INVALID OBSERVATIONS= 37.

PERCENT OF VALID OBSERVATIONS= 98.3

TABLE 158 - B

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -1.7 TO -1.9 IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR		
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO			TO	TO
NNE	0.	0.	0.	0.	0.	0.	0.	0.	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.	2.3
NE	0.	0.	0.	0.	0.	0.	0.	0.	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.	4.7
ENE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
E	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
ESE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SE	0.	0.	0.	0.	0.	0.	0.	0.	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.	4.6
SSE	0.	0.	0.	0.	0.	0.	0.	0.	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.	4.9
S	0.	0.	0.	0.	0.	0.	0.	0.	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.	9.7
SSW	0.	0.	0.	0.	0.	0.	0.	0.	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.	7.6
SW	0.	0.	0.	0.	0.	0.	0.	0.	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.	4.9
WSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	3.1
W	0.	0.	0.	0.	0.	0.	0.	0.	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.	5.0
WNW	0.	0.	0.	0.	0.	0.	0.	0.	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.	5.5
NW	0.	0.	0.	0.	0.	0.	0.	0.	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.	5.9
NNW	0.	0.	0.	0.	0.	0.	0.	0.	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.	4.6
N	0.	0.	0.	0.	0.	0.	0.	0.	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.	3.1
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	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.	3.7
																																	59.	5.0

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 2.8

TABLE 158 - C

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -1.5 TO -1.6 IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO			TO
NNE	0.	0.	0.	0.	0.	0.	0.	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.	3.0
NE	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	7.	4.1	
ENE	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	1.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	8.	4.6		
E	0.	0.	0.	0.	0.	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.	3.3		
ESE	0.	0.	0.	0.	0.	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.	6.3		
SE	0.	0.	0.	0.	0.	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.	6.3		
SSE	0.	0.	0.	0.	0.	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.	6.3		
S	0.	0.	0.	0.	0.	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.	7.9		
SSW	0.	0.	0.	0.	0.	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.	6.3		
SW	0.	0.	0.	0.	0.	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.	6.2		
WSW	0.	0.	0.	0.	0.	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.	4.3		
W	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	3.2		
WNW	0.	0.	0.	0.	0.	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.	3.9		
NW	0.	0.	0.	0.	0.	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.	4.9		
NNW	0.	0.	0.	0.	0.	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.	4.3		
N	0.	0.	0.	0.	0.	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.	3.6		
TOTAL	0.	0.	0.	0.	0.	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.	3.1		
	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.	140.	5.1		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 6.4

TABLE 158 - D

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -0.5 TO -1.4 IN FREQUENCY

DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0	9.0	TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.9	6.9	7.9	8.9	INF		
NNE	0.	0.	1.	0.	3.	5.	4.	11.	3.	0.	0.	0.	0.	0.	0.	27.	3.2
NE	0.	1.	3.	2.	3.	1.	5.	8.	2.	3.	2.	2.	0.	0.	0.	32.	3.3
ENE	0.	0.	4.	4.	7.	6.	10.	8.	10.	8.	2.	1.	0.	0.	0.	60.	3.3
E	0.	0.	0.	2.	2.	4.	1.	7.	12.	6.	5.	1.	1.	0.	1.	42.	4.1
ESE	0.	1.	2.	1.	4.	3.	4.	9.	11.	18.	22.	4.	2.	4.	0.	85.	4.5
SE	0.	6.	3.	3.	5.	3.	7.	4.	7.	13.	24.	5.	5.	4.	2.	91.	4.4
SSE	0.	3.	7.	6.	9.	7.	8.	4.	13.	22.	13.	9.	5.	6.	13.	125.	4.8
S	0.	3.	2.	0.	5.	1.	8.	13.	10.	11.	12.	8.	10.	5.	16.	104.	5.6
SSW	0.	0.	0.	2.	2.	3.	9.	10.	8.	10.	6.	4.	4.	3.	4.	65.	4.8
SW	0.	1.	1.	0.	1.	6.	8.	3.	9.	6.	2.	3.	1.	1.	0.	42.	4.0
WSW	0.	1.	2.	1.	5.	3.	10.	6.	7.	5.	0.	0.	0.	0.	0.	40.	3.2
W	0.	0.	1.	3.	6.	6.	7.	0.	3.	2.	1.	2.	0.	0.	0.	31.	3.1
WNW	0.	1.	3.	3.	7.	6.	6.	7.	6.	5.	4.	4.	1.	2.	17.	72.	5.4
NW	0.	0.	4.	6.	11.	24.	26.	12.	11.	9.	10.	0.	0.	2.	2.	117.	3.5
NNW	0.	0.	3.	7.	4.	5.	7.	12.	32.	3.	3.	2.	1.	0.	1.	80.	3.7
N	0.	0.	1.	3.	10.	10.	9.	8.	14.	2.	3.	1.	0.	0.	0.	61.	3.3
TOTAL	0.	17.	37.	43.	84.	93.	129.	122.	158.	123.	109.	46.	30.	27.	56.	1074.	4.2

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 49.4

TABLE 158 - E

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -0.4 TO +1.5 IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	DT100 = -0.4 TO +1.5 IN FREQUENCY										DATA USED -- WD10 ,WS10 ,DT100										TOTAL	UBAR
	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO INF							
NNE	0.	2.	4.	2.	4.	2.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	16.	1.9			
NE	0.	0.	1.	0.	2.	1.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	2.6			
ENE	0.	0.	2.	3.	2.	2.	1.	9.	0.	0.	0.	0.	0.	0.	0.	0.	0.	21.	2.9			
E	0.	0.	1.	3.	4.	5.	4.	11.	2.	6.	2.	0.	0.	0.	0.	0.	0.	40.	3.5			
ESE	0.	1.	3.	6.	3.	7.	5.	2.	10.	4.	11.	0.	1.	0.	0.	0.	0.	53.	3.5			
SE	0.	0.	1.	1.	3.	6.	4.	3.	15.	21.	11.	1.	1.	0.	1.	0.	0.	68.	4.3			
SSE	0.	0.	1.	1.	4.	2.	2.	3.	11.	21.	13.	17.	1.	1.	0.	0.	0.	77.	4.8			
S	0.	2.	1.	2.	1.	4.	5.	8.	12.	10.	9.	4.	3.	1.	1.	0.	0.	63.	4.3			
SSW	0.	1.	6.	0.	2.	3.	4.	7.	5.	4.	4.	3.	0.	0.	0.	0.	0.	39.	3.6			
SW	0.	1.	1.	3.	0.	6.	5.	1.	3.	3.	1.	1.	2.	0.	0.	0.	0.	27.	3.5			
WSW	0.	2.	5.	5.	3.	4.	5.	1.	2.	0.	3.	0.	0.	0.	0.	0.	0.	30.	2.5			
W	0.	1.	17.	13.	8.	8.	11.	7.	1.	1.	1.	0.	0.	0.	0.	0.	0.	68.	2.3			
WNW	0.	2.	8.	9.	5.	5.	13.	6.	4.	2.	3.	1.	0.	0.	0.	0.	0.	58.	2.8			
NW	0.	1.	6.	8.	5.	9.	8.	3.	8.	5.	0.	0.	0.	0.	0.	0.	0.	53.	2.8			
NNW	0.	0.	2.	4.	3.	3.	6.	4.	3.	1.	1.	0.	0.	0.	0.	0.	0.	27.	2.9			
N	0.	0.	1.	1.	4.	4.	5.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	18.	2.8			
TOTAL	0.	13.	60.	61.	53.	71.	80.	69.	78.	80.	59.	29.	8.	2.	2.	0.	665.	3.4				

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 30.6

TABLE 15B - G

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = +4.1 TO +INF IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
NNE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NE	0.	0.	0.	0.	1.	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.	3.	1.5
ENE	0.	0.	0.	0.	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.	1.	1.1
E	0.	0.	0.	0.	2.	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.	3.	1.3
ESE	0.	0.	0.	0.	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.	1.	1.1
SE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SSE	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.	2.	0.9
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SSW	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.	2.	1.0
SW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	5.0
WSW	0.	0.	0.	0.	0.	0.	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.	3.7
W	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WNW	0.	0.	0.	0.	0.	0.	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.	2.4
NW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NNW	0.	0.	0.	0.	0.	0.	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.	7.6
N	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
TOTAL	0.	0.	0.	0.	9.	4.	0.	0.	0.	0.	0.	0.	0.	1.	1.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.	2.6	

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.9

TABLE 158 - ALL

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -INF TO +INF IN FREQUENCY DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0	9.0	TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.9	6.9	7.9	8.9	INF		
NNE	1.	2.	5.	2.	9.	13.	5.	11.	4.	1.	0.	0.	0.	0.	0.	53.	2.7
NE	0.	2.	6.	6.	5.	5.	7.	10.	2.	4.	6.	4.	0.	0.	0.	57.	3.2
ENE	0.	0.	7.	8.	10.	9.	13.	17.	10.	10.	6.	2.	0.	0.	0.	92.	3.3
E	0.	1.	4.	9.	11.	11.	7.	17.	15.	12.	7.	3.	1.	0.	1.	101.	3.5
ESE	0.	3.	8.	8.	12.	12.	11.	16.	24.	23.	35.	4.	7.	4.	0.	167.	4.0
SE	0.	7.	6.	7.	11.	10.	11.	10.	24.	35.	36.	7.	8.	5.	3.	180.	4.3
SSE	0.	7.	10.	8.	14.	9.	11.	11.	26.	45.	27.	28.	10.	10.	17.	233.	4.8
S	0.	5.	7.	6.	6.	7.	16.	30.	34.	25.	29.	12.	13.	15.	22.	227.	5.1
SSW	0.	2.	14.	2.	7.	9.	16.	30.	13.	15.	14.	8.	7.	5.	7.	149.	4.2
SW	0.	3.	2.	4.	4.	12.	17.	11.	14.	10.	6.	4.	4.	1.	0.	92.	3.8
WSW	0.	6.	10.	14.	9.	9.	22.	13.	10.	7.	4.	2.	0.	0.	0.	105.	2.9
W	0.	4.	24.	19.	16.	17.	21.	8.	6.	6.	8.	2.	1.	0.	0.	132.	2.7
WNW	0.	4.	17.	21.	16.	16.	23.	14.	11.	9.	10.	6.	8.	7.	18.	180.	4.1
NW	0.	1.	10.	14.	16.	37.	38.	15.	19.	14.	12.	0.	0.	3.	3.	182.	3.3
NNW	0.	0.	5.	13.	9.	11.	16.	16.	36.	4.	6.	5.	1.	1.	1.	124.	3.6
N	0.	0.	2.	5.	17.	18.	16.	13.	18.	8.	3.	1.	0.	0.	0.	101.	3.2
TOTAL	1.	47.	137.	146.	172.	204.	250.	244.	266.	228.	209.	88.	60.	51.	72.	2175.	3.9

NUMBER OF INVALID OBSERVATIONS= 9.

PERCENT OF VALID OBSERVATIONS= 99.6

IV-26

TABLE 159 - A

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -2.0 TO -INF IN PERCENT DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR				
	TO	0.4	TO	0.9	TO	1.4	TO	1.9	TO	2.4	TO	2.9	TO	3.4	TO	3.9	TO	4.4	TO	4.9	TO	5.9	TO	6.9	TO	7.9	TO	8.9	TO	INF						
NNE	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.4				
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.05	6.0	0.0	0.0		
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	5.9	0.0	0.0	0.0		
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.14	4.1	0.0	0.0		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.1

TABLE 159 - B

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -1.7 TO -1.9 IN PERCENT DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	2.3
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.19	4.7
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.09	4.6
SF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.09	4.9
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	9.7
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	7.6
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.09	4.9
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	3.1
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	5.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	5.5
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	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	0.60	5.9
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	4.6
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	3.1
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	3.7
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.42	0.33	0.20	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.71	5.0

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 2.8

TABLE 159 - C

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DI100 = -1.5 TO -1.6 IN PERCENT DATA USED -- WD10 ,WS10 ,DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	3.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.09	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.32	4.1
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	4.6
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	3.3	
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	6.3	
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.23	6.3	
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	6.3	
S	0.0	0.0	0.0	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	7.9	
SSW	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.05	0.04	0.09	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	1.10	6.3	
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	6.2	
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	4.3	
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	3.2	
WNW	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.14	0.09	0.09	0.09	0.05	0.0	0.0	0.0	0.0	0.14	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	3.9	
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.09	0.14	0.0	0.05	0.0	0.0	0.0	0.0	0.05	0.09	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.69	4.9	
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.05	0.14	0.09	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	4.3	
N	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.05	0.05	0.05	0.14	0.04	0.09	0.04	0.0	0.0	0.0	0.0	0.0	0.05	0.04	0.09	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.51	3.6	
TOTAL	0.0	0.0	0.0	0.0	0.15	0.25	0.24	1.06	0.73	0.33	0.37	0.34	0.86	0.35	0.67	0.54	0.55	6.44	5.1													

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 6.4

TABLE 159 - D

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -0.5 TO -1.4 IN PERCENT DATA USED -- WD10 *WS10 *DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
NNE	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.14	0.23	0.18	0.50	0.14	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	1.24	3.2
NE	0.0	0.05	0.14	0.09	0.14	0.09	0.14	0.09	0.14	0.04	0.23	0.37	0.09	0.09	0.14	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.47	3.3
ENE	0.0	0.0	0.18	0.18	0.18	0.18	0.18	0.18	0.32	0.28	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	2.76	3.3	
E	0.0	0.0	0.0	0.09	0.09	0.09	0.09	0.09	0.18	0.18	0.05	0.32	0.55	0.27	0.23	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.93	4.1	
ESE	0.0	0.05	0.09	0.05	0.09	0.05	0.09	0.05	0.19	0.14	0.18	0.41	0.51	0.83	1.01	0.18	0.09	0.18	0.09	0.18	0.09	0.18	0.09	0.18	0.09	0.18	0.09	0.18	0.09	3.91	4.5	
SE	0.0	0.28	0.14	0.14	0.14	0.23	0.41	0.23	0.23	0.14	0.32	0.18	0.32	0.60	1.01	0.60	0.41	0.23	0.28	0.60	0.41	0.23	0.28	0.60	0.41	0.23	0.28	0.60	5.75	4.8		
SSE	0.0	0.14	0.32	0.28	0.41	0.32	0.28	0.41	0.32	0.37	0.37	0.18	0.60	1.01	0.60	0.50	0.37	0.46	0.23	0.46	0.23	0.46	0.23	0.46	0.23	0.46	0.23	0.46	4.18	4.4		
S	0.0	0.14	0.09	0.0	0.23	0.05	0.37	0.60	0.23	0.05	0.37	0.60	0.46	0.37	0.60	0.46	0.37	0.60	0.46	0.37	0.60	0.46	0.37	0.60	0.46	0.37	0.60	0.46	5.75	4.8		
SSW	0.0	0.0	0.0	0.09	0.09	0.14	0.41	0.46	0.14	0.41	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	0.46	0.37	4.78	5.6		
SW	0.0	0.05	0.05	0.0	0.05	0.0	0.05	0.0	0.05	0.14	0.37	0.14	0.41	0.27	0.09	0.14	0.05	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.93	4.0	
WSW	0.0	0.05	0.09	0.05	0.09	0.05	0.09	0.05	0.23	0.14	0.46	0.27	0.32	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	1.84	3.2	
W	0.0	0.0	0.05	0.14	0.28	0.27	0.32	0.0	0.28	0.27	0.32	0.0	0.14	0.09	0.05	0.09	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.43	3.1	
WNW	0.0	0.05	0.14	0.14	0.32	0.28	0.28	0.32	0.28	0.28	0.28	0.32	0.27	0.23	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	3.31	5.4	
NW	0.0	0.0	0.18	0.28	0.51	1.10	1.10	0.55	0.51	1.10	1.20	0.55	0.51	0.41	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.38	3.5	
NNW	0.0	0.0	0.14	0.32	0.18	0.23	0.32	0.32	0.18	0.23	0.32	0.55	1.47	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	3.68	3.7	
N	0.0	0.0	0.05	0.14	0.46	0.46	0.41	0.37	0.64	0.46	0.41	0.37	0.64	0.09	0.14	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.80	3.3	
TOTAL	0.0	0.81	1.71	1.99	3.87	4.27	5.93	5.59	7.26	5.64	5.01	2.11	1.39	1.23	2.57	49.38	4.2															

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 49.4

TABLE 159 - ALL

DATA PERIOD 04/01/1982 THROUGH 06/30/1982 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN NUCLEAR STATION

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC FOR

DT100 = -INF TO +INF IN PERCENT DATA USED -- WD10 *WS10 *DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		TOTAL	UBAR			
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO			TO		
NNE	0.05	0.09	0.23	0.09	0.41	0.60	0.23	0.51	0.18	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.44	2.7	
NE	0.0	0.09	0.28	0.28	0.23	0.23	0.32	0.46	0.09	0.18	0.28	0.46	0.09	0.18	0.28	0.46	0.09	0.18	0.28	0.46	0.09	0.18	0.28	0.46	0.09	0.18	0.28	0.46	0.09	0.18	2.62	3.2	
ENE	0.0	0.0	0.32	0.37	0.46	0.41	0.60	0.78	0.46	0.46	0.28	0.46	0.28	0.46	0.28	0.46	0.28	0.46	0.28	0.46	0.28	0.46	0.28	0.46	0.28	0.46	0.28	0.46	0.28	0.46	4.23	3.3	
E	0.0	0.05	0.18	0.41	0.51	0.50	0.32	0.87	0.69	0.55	0.32	0.87	0.69	0.55	0.32	0.87	0.69	0.55	0.32	0.87	0.69	0.55	0.32	0.87	0.69	0.55	0.32	0.87	0.69	0.55	4.64	3.5	
ESE	0.0	0.14	0.37	0.37	0.55	0.55	0.51	0.74	1.10	1.06	1.61	1.10	1.06	1.61	1.10	1.06	1.61	1.10	1.06	1.61	1.10	1.06	1.61	1.10	1.06	1.61	1.10	1.06	1.61	1.10	7.68	4.0	
SE	0.0	0.32	0.28	0.32	0.51	0.46	0.51	0.46	1.10	1.61	1.61	1.10	1.61	1.61	1.10	1.61	1.61	1.10	1.61	1.61	1.10	1.61	1.61	1.10	1.61	1.61	1.10	1.61	1.61	1.10	8.28	4.3	
SSE	0.0	0.32	0.46	0.37	0.64	0.41	0.51	0.51	0.46	1.19	2.07	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	10.71	4.8	
S	0.0	0.23	0.32	0.28	0.28	0.32	0.74	1.38	1.56	1.15	1.33	0.55	0.60	0.69	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	10.44	5.1	
SSW	0.0	0.09	0.64	0.09	0.32	0.42	0.74	1.38	0.60	0.69	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	6.85	4.2	
SW	0.0	0.14	0.09	0.19	0.18	0.55	0.78	0.51	0.64	0.46	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	4.23	3.8	
WSW	0.0	0.28	0.46	0.64	0.41	0.37	1.01	0.60	0.46	0.32	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	4.83	2.9	
W	0.0	0.18	1.10	0.87	0.74	0.78	0.96	0.37	0.28	0.28	0.37	0.28	0.28	0.37	0.28	0.28	0.37	0.28	0.28	0.37	0.28	0.28	0.37	0.28	0.28	0.37	0.28	0.28	0.37	0.28	6.07	2.7	
WNW	0.0	0.18	0.78	0.96	0.74	1.70	1.06	0.64	0.51	0.41	0.46	0.87	0.64	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.27	4.1	
NW	0.0	0.05	0.46	0.64	0.74	1.70	1.75	0.69	0.87	0.64	0.55	0.64	0.64	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.37	3.3	
NNW	0.0	0.0	0.23	0.60	0.41	0.51	0.73	1.65	0.73	1.65	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	5.70	3.6	
N	0.0	0.0	0.09	0.23	0.78	0.83	0.73	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	0.60	0.83	4.64	3.2
TOTAL	0.05	2.16	6.29	6.71	7.91	9.37	11.50	11.23	12.21	10.48	9.62	4.03	2.77	2.35	3.32	100.00	3.9																

NUMBER OF INVALID OBSERVATIONS= 9.

PERCENT OF VALID OBSERVATIONS= 99.6

STARTING TIME

JAN 1, 1982

HOUR 0 MINUTE 1

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
1	3.5	297.6	0.8
2	3.5	299.9	0.8
3	1.5	263.9	0.8
4	2.3	274.3	0.8
5	3.2	241.1	1.2
6	2.1	233.0	1.8
7	2.1	112.3	2.2
8	1.4	147.6	2.2
9	3.1	171.6	1.2
10	4.9	150.8	-0.2
11	6.5	134.9	-0.7
12	9.6	115.5	-0.7
13	11.1	124.8	-0.8
14	12.4	118.7	-0.9
15	12.7	126.2	-0.8
16	10.0	129.9	-0.7
17	13.4	125.2	-0.8
18	12.5	124.9	-0.8
19	13.2	122.2	-0.7
20	13.9	123.4	-0.7
21	14.0	123.3	-0.7
22	13.2	126.2	-0.6
23	13.6	128.9	-0.6
24	14.5	134.9	-0.7
1	15.9	135.8	-0.7
2	15.1	134.2	-0.7
3	14.8	131.0	-0.6
4	15.1	129.6	-0.8
5	14.4	130.3	-0.7
6	12.1	128.2	-0.7
7	10.9	129.7	-0.7
8	8.2	129.4	-0.6
9	4.2	112.8	-0.5
10	2.7	38.0	-0.7
11	2.3	336.3	-0.6
12	4.2	309.9	-0.7
13	7.0	316.1	-0.8
14	8.3	317.0	-1.0
15	14.7	316.6	-0.9
16	14.6	309.9	-0.9
17	12.7	312.2	-0.8
18	10.9	312.1	-0.5
19	10.4	311.5	-0.4
20	5.6	300.3	-0.1
21	7.1	314.3	-0.2
22	5.4	303.7	-0.0
23	7.1	321.2	0.1
24	5.3	308.5	0.6
1	2.9	289.6	1.0

2	3.4	295.6	0.9
3	5.2	311.7	0.5
4	3.4	316.1	-0.1
5	4.1	305.8	-0.3
6	4.3	337.0	-0.7
7	4.7	5.6	-0.8
8	3.9	347.3	-0.6
9	3.9	346.7	-0.3
10	5.4	356.5	-0.9
11	5.7	19.4	-1.2
12	6.1	32.8	-1.1
13	6.8	7.2	-1.3
14	6.1	355.7	-1.1
15	5.9	357.0	-1.1
16	7.0	1.7	-1.0
17	6.7	335.3	-1.0
18	7.2	340.6	-0.9
19	7.7	343.9	-0.9
20	7.5	344.5	-0.8
21	8.3	341.5	-0.8
22	7.8	333.8	-0.9
23	10.6	326.1	-0.8
24	8.7	339.7	-0.8
1	9.8	324.1	-0.8
2	9.3	314.3	-0.6
3	7.8	299.2	-0.4
4	7.2	291.6	-0.2
5	7.2	292.2	-0.0
6	7.3	289.8	0.1
7	7.2	284.3	0.6
8	4.5	288.7	1.0

STOP TIME JAN 4, 1982 HOUR 7 MINUTE 52

STARTING TIME JAN 7, 1982 HOUR 16 MINUTE 43

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	5.9	194.1	-0.8
17	8.0	178.6	-0.6
18	9.8	187.3	0.6
19	11.2	198.9	1.9
20	6.6	197.2	1.4
21	10.8	209.3	3.3
22	17.5	215.4	4.6
23	17.6	218.9	5.5
24	16.3	217.4	4.8
1	14.5	217.9	4.5
2	8.6	208.9	3.2
3	4.9	134.4	0.9
4	10.2	187.9	2.6
5	18.0	231.6	4.7

6	15.3	246.2	3.7
7	5.0	305.7	1.0
8	4.2	278.4	0.5
9	3.4	261.0	0.6
10	4.7	277.3	0.3
11	3.7	293.2	-0.4
12	2.7	275.8	-0.8
13	2.2	326.5	-1.0
14	5.0	340.5	-1.1
15	6.0	335.3	-1.0
16	4.6	350.1	-1.0
17	5.7	5.7	-0.9
18	5.3	10.7	-0.7
19	4.2	359.7	-0.4
20	5.2	2.1	-0.9
21	5.7	358.7	-0.9
22	7.7	345.9	-0.9
23	8.5	343.8	-1.0
24	9.1	344.7	-0.9
1	9.4	340.9	-0.9
2	10.2	336.8	-0.9
3	9.6	340.4	-1.0
4	8.9	333.3	-0.8
5	10.6	323.4	-0.7
6	9.9	322.0	-0.8
7	10.1	322.6	-0.8
8	10.6	314.2	-0.8
9	9.4	302.6	-0.8
10	7.9	288.2	-0.9
11	10.4	278.6	-1.1
12	10.6	289.0	-1.1
13	11.1	292.4	-1.0
14	12.1	297.0	-1.0
15	14.5	299.9	-0.9
16	14.4	305.6	-0.9
17	16.0	317.7	-0.8
18	15.4	328.6	-0.8
19	15.7	329.2	-0.9
20	15.9	324.5	-0.7
21	15.0	339.0	-0.8
22	16.4	333.8	-0.8
23	13.6	325.5	-0.8
24	12.2	333.9	-0.8
1	13.2	328.2	-0.7
2	13.2	323.5	-0.7
3	12.8	324.6	-0.6
4	12.8	321.6	-0.6
5	14.9	317.4	-0.6
6	14.9	322.5	-0.6
7	12.0	323.9	-0.6
8	10.4	321.8	-0.5
9	14.0	310.2	-0.6
10	13.4	304.0	-0.7
11	13.5	305.4	-0.9
12	13.4	305.1	-1.0

13	13.1	299.4	-1.0
14	14.0	295.7	-1.0
15	13.0	293.5	-1.0
16	13.0	290.8	-0.9
17	12.1	297.2	-0.7
18	11.2	290.0	-0.5
19	11.9	293.6	-0.4
20	13.1	298.8	-0.5
21	12.8	295.8	-0.6
22	15.1	298.1	-0.5
23	13.1	297.0	-0.5
24	11.6	299.6	-0.4
1	11.1	299.1	-0.4
2	9.9	295.9	-0.4
3	7.9	293.9	-0.3
4	8.1	282.7	-0.3
5	7.2	280.3	-0.2
6	9.4	280.2	-0.2
7	8.1	287.9	-0.3
8	5.9	302.0	-0.5
9	3.2	295.9	-0.6
10	5.4	268.6	-1.0
11	5.3	280.6	-1.0
12	4.4	301.5	-1.0
13	4.0	282.6	-1.2

STOP TIME JAN 11, 1982 HOUR 12 MINUTE 12

STARTING TIME

JAN 14, 1982

HOUR 19 MINUTE 10

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
19	6.3	160.1	-0.8
20	4.3	140.1	-0.7
21	7.0	133.7	-0.6
22	7.0	139.2	-0.7
23	6.8	138.9	-0.8
24	7.5	144.6	-0.8
1	8.6	139.8	-0.8
2	6.0	150.1	-0.7
3	8.5	143.3	-0.7
4	7.4	131.4	-0.5
5	4.7	128.8	-0.5
6	3.9	188.2	-0.6
7	4.5	147.6	0.0
8	4.5	189.3	1.4
9	4.0	274.2	1.8
10	12.7	315.9	-0.1
11	21.1	318.9	-0.9
12	17.5	322.7	-1.0
13	15.5	329.5	-1.1
14	15.2	331.7	-1.1
15	13.3	337.6	-1.1
16	15.9	327.2	-1.0
17	14.7	331.5	-1.0
18	14.3	327.6	-0.9
19	19.6	322.2	-0.9
20	19.7	322.8	-0.8
21	17.5	323.5	-0.8
22	20.6	321.6	-0.7
23	19.7	324.5	-0.7
24	16.5	324.5	-0.7
1	14.4	320.4	-0.6
2	12.8	310.6	-0.4
3	9.7	303.2	-0.3
4	6.9	276.7	-0.0
5	9.8	259.4	0.1
6	10.2	268.6	0.0
7	8.4	279.6	0.2
8	8.2	283.3	0.4
9	6.8	303.3	-0.2
10	11.6	316.4	-0.9
11	12.6	314.6	-1.0
12	13.1	319.0	-1.1
13	11.8	305.1	-1.1
14	9.4	293.5	-1.2
15	8.5	283.9	-1.2
16	7.6	279.5	-1.2
17	5.5	267.2	-0.8
18	3.7	250.2	-0.1
19	2.1	189.9	0.8

20	3.8	184.6	1.7
21	4.8	125.6	1.4
22	9.3	189.0	2.2
23	9.9	182.1	2.0
24	12.0	174.5	0.9
1	18.1	175.4	0.7
2	18.2	178.8	0.1
3	16.7	173.4	-0.1
4	16.9	166.2	-0.5
5	15.0	162.6	-0.6
6	14.3	155.9	-0.6
7	17.2	158.6	-0.7
8	19.1	163.5	-0.7
9	14.0	166.7	-0.7
10	19.3	172.1	-0.8
11	20.8	177.2	-0.9
12	20.4	186.3	-1.0
13	17.7	189.7	-1.1
14	17.1	191.0	-1.1
15	14.9	188.5	-1.0
16	13.7	188.4	-1.0
17	9.8	180.9	-0.8
18	6.5	163.9	-0.5
19	6.9	159.2	-0.3
20	10.1	193.1	0.8
21	6.6	138.4	0.4
22	6.2	174.7	4.6
23	9.7	194.8	5.0
24	14.3	207.5	7.7
1	15.4	205.4	7.8
2	11.5	225.1	6.7
3	3.4	21.1	3.7
4	2.1	72.1	4.6
5	1.4	11.6	5.0
6	3.1	121.6	4.5
7	2.0	245.8	5.2
8	1.6	320.0	5.1

STOP TIME JAN 18, 1982 HOUR 7 MINUTE 30

STARTING TIME JAN 21,1982 HOUR 16 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	4.9	15.6	-1.1
17	4.9	26.8	-1.0
18	4.3	55.2	-0.8
19	5.2	71.7	-0.7
20	6.3	83.5	-0.7
21	6.9	87.2	-0.8
22	5.5	79.2	-0.6
23	6.7	90.8	-0.5
24	7.5	96.3	-0.5
1	8.3	93.9	-0.6
2	7.8	102.9	-0.6
3	6.0	82.2	-0.6
4	4.5	55.8	-0.5
5	5.0	3.2	-0.5
6	7.3	68.5	-0.4
7	5.3	83.0	-0.6
8	4.7	76.6	-0.4
9	5.3	68.3	-0.3
10	4.2	49.4	-0.2
11	8.8	82.2	-0.4
12	12.5	109.9	-0.6
13	9.4	100.0	-0.9
14	3.2	89.1	-0.9
15	-99.0	36.5	-0.9

STOP TIME JAN 22,1982 HOUR 14 MINUTE 0

STARTING TIME JAN 23,1982 HOUR 18 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	8.8	292.5	-0.3
19	7.1	287.0	-0.3
20	8.7	295.4	-0.5
21	9.0	302.5	-0.6
22	11.2	292.8	-0.7
23	10.9	293.5	-0.7
24	8.8	290.3	-0.8
1	7.0	310.8	-0.8
2	8.4	318.1	-0.6
3	7.6	318.7	-0.5
4	5.3	318.2	-0.6
5	3.2	310.0	0.2
6	3.4	301.4	0.2
7	2.7	314.2	0.1
8	2.0	241.2	0.1

9	2.0	220.7	-0.0
10	2.6	299.4	-0.6
11	2.2	351.8	-0.9
12	3.0	108.6	-1.1
13	5.6	159.9	-1.0
14	6.6	154.3	-0.9
15	8.2	296.8	-0.8
16	8.5	140.1	-0.8
17	10.6	155.5	-0.8
18	9.2	177.0	-0.8
19	8.5	165.4	-0.8
20	7.3	161.2	-0.8
21	8.8	167.3	-0.6
22	8.2	184.3	-0.6
23	9.8	243.2	-0.1
24	12.2	266.0	0.2
1	24.4	314.3	-0.7
2	20.2	314.5	-0.6
3	20.5	318.4	-0.7
4	17.5	321.7	-0.7
5	15.9	317.6	-0.5
6	10.7	307.5	-0.3
7	8.5	301.4	-0.2
8	7.6	290.0	-0.2
9	7.0	296.5	-0.3
10	8.2	301.3	-0.9

STOP TIME JAN 25, 1982 HOUR 9 MINUTE 30

STARTING TIME JAN 28, 1982 HOUR 18 MINUTE 18

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	8.3	123.2	-0.3
19	8.8	119.8	0.0
20	9.8	116.0	-0.3
21	11.3	126.9	-0.3
22	9.6	126.1	0.1
23	11.1	126.0	-0.1
24	11.4	129.1	-0.2
1	10.8	128.2	-0.1
2	9.6	133.2	-0.1
3	12.6	144.1	-0.1
4	14.0	137.8	-0.3
5	12.7	133.1	-0.1
6	13.4	133.7	-0.1
7	10.0	139.8	-0.2
8	10.7	142.4	-0.3
9	16.7	152.8	-0.5
10	6.6	100.3	-0.5
11	3.0	63.1	-0.8
12	4.2	119.5	-0.7
13	3.1	110.5	-0.9
14	3.0	56.3	-1.0
15	3.7	16.9	-1.0
16	3.8	356.3	-1.1
17	5.2	338.9	-0.6
18	5.4	353.2	-0.7
19	7.5	342.8	-0.7
20	7.5	342.2	-0.6
21	6.6	333.6	-0.7
22	10.1	320.5	-0.6
23	10.5	325.3	-0.9
24	9.5	325.1	-0.9
1	9.0	331.8	-0.9
2	6.9	334.7	-0.9
3	6.8	342.9	-0.8
4	7.7	340.8	-0.6
5	5.9	342.9	-0.6
6	4.3	328.3	-0.7
7	4.9	328.4	-0.6
8	5.2	337.2	-0.7
9	4.0	336.8	-0.6
10	4.8	352.8	-0.7
11	4.5	354.5	-0.7
12	6.1	343.2	-0.6
13	7.5	350.5	-0.7
14	8.4	348.3	-0.8
15	8.8	356.4	-1.3
16	8.4	358.7	-1.5
17	7.9	7.6	-1.7
18	8.3	344.9	-1.1

19	8.4	345.2	-1.1
20	8.2	343.4	-0.8
21	7.9	346.4	-0.8
22	8.0	342.6	-0.8
23	7.9	338.7	-0.8
24	7.3	347.0	-0.8
1	6.8	350.3	-0.9
2	6.5	357.6	-1.0
3	7.1	355.5	-1.1
4	6.9	347.3	-1.0
5	7.6	350.1	-0.8
6	7.2	338.8	-0.9
7	7.3	339.8	-0.9
8	7.1	347.0	-0.9
9	5.6	341.7	-0.7
10	4.9	324.8	-0.6
11	4.2	333.9	-0.7
12	4.9	302.5	-1.0
13	4.7	304.4	-1.0
14	4.5	304.6	-1.3
15	4.2	316.9	-1.1
16	4.1	293.5	-1.0
17	2.0	321.5	-0.8
18	1.5	49.7	-0.6
19	3.5	71.9	-0.2
20	3.3	129.0	-0.3
21	5.0	124.5	-0.3
22	6.6	125.3	-0.6
23	7.8	125.9	-0.6
24	7.8	123.2	-0.8
1	8.2	122.4	-0.8
2	8.5	121.0	-0.8
3	7.7	139.9	-0.9
4	9.0	128.1	-0.8
5	9.0	134.9	-0.7
6	7.7	122.4	-0.5
7	8.6	127.1	-0.6

STOP TIME FEB 1, 1982 HOUR 6 MINUTE 36

STARTING TIME

FEB 5, 1982

HOUR 18 MINUTE 27

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	2.6	245.9	-0.2
19	3.0	243.9	0.4
20	5.0	226.4	1.2
21	10.7	233.6	1.6
22	10.1	235.0	2.7
23	10.7	239.9	2.5
24	10.6	228.0	3.7
1	12.4	214.5	4.9
2	6.2	152.2	3.3
3	8.4	206.3	3.0
4	4.9	155.3	0.9
5	4.9	206.9	0.5
6	2.9	161.4	-0.1
7	3.5	163.2	-0.1
8	4.6	178.7	2.4
9	6.5	222.6	0.9
10	4.1	193.4	-0.3
11	5.1	206.2	-0.7
12	7.0	223.8	-0.5
13	6.9	204.7	-0.7
14	6.8	184.8	-0.9
15	10.4	194.4	-0.9
16	15.8	196.3	-0.7
17	14.7	203.1	-0.6
18	20.0	210.5	0.2
19	21.4	212.8	1.8
20	21.9	211.4	3.0
21	20.0	219.6	5.4
22	20.4	214.6	6.3
23	16.5	221.1	4.3
24	6.4	220.7	2.3
1	5.6	239.3	1.4
2	4.1	16.0	2.1
3	4.5	207.6	1.3
4	5.3	170.9	1.2
5	4.7	157.8	1.0
6	6.2	179.8	2.1
7	6.0	192.6	2.7
8	2.3	200.1	2.5
9	2.0	95.3	1.1
10	3.7	273.4	-0.0
11	2.9	291.6	0.0
12	2.1	282.8	-0.3
13	3.1	305.7	-1.0
14	3.2	294.5	-0.9
15	3.1	294.0	-0.6
16	2.4	272.4	-0.4
17	2.2	295.9	-0.6
18	2.7	291.7	0.4

19	4.0	316.8	0.4
20	4.4	332.2	0.8
21	5.1	326.7	1.4
22	4.5	321.8	1.9
23	4.7	314.9	1.8
24	4.4	297.5	1.9
1	4.3	288.5	1.2
2	3.3	294.6	1.4
3	3.1	292.7	1.9
4	3.0	293.0	1.7
5	2.8	315.2	0.6
6	3.7	337.8	0.0
7	3.1	313.0	-0.0
8	3.7	308.2	0.1

STOP TIME FEB 8, 1982 HOUR 7 MINUTE 21

STARTING TIME

FEB 10, 1982

HOUR 19 MINUTE 39

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
19	3.2	191.0	0.5
20	2.7	198.0	1.2
21	2.9	150.7	1.2
22	5.1	157.1	1.7
23	6.1	204.9	2.6
24	13.3	207.6	2.6
1	11.0	215.7	3.0
2	8.5	205.7	2.3
3	12.3	217.5	7.8
4	4.7	265.6	1.5
5	5.2	254.2	1.4
6	4.2	256.5	1.2
7	2.9	306.6	2.7
8	1.8	130.8	2.2
9	2.5	309.5	2.0
10	2.8	85.0	0.6
11	2.6	280.8	0.0
12	2.8	281.0	-0.6
13	4.1	332.4	-1.0
14	2.4	335.5	-1.0
15	3.3	4.3	-1.1
16	2.9	30.8	-0.6
17	1.7	37.5	-0.3
18	1.9	333.8	0.1
19	1.8	29.0	0.6
20	1.3	85.6	0.6
21	3.4	303.2	1.2
22	1.9	246.9	1.3
23	1.7	335.9	1.8
24	1.6	287.6	1.7
1	1.3	1.6	0.2
2	2.1	299.5	0.4
3	1.9	296.6	0.3
4	1.0	235.7	0.2
5	0.8	294.5	-0.2
6	1.2	292.5	0.1
7	1.3	234.8	0.9
8	3.0	112.9	0.6
9	1.6	320.2	-0.1
10	1.3	153.8	-0.1
11	3.7	123.1	-0.2
12	7.0	193.9	-1.1
13	6.1	200.3	-1.1
14	6.9	207.0	-1.1
15	8.9	222.8	-1.0
16	8.4	206.6	-1.0
17	8.8	223.7	-0.9
18	4.0	259.3	-0.3
19	4.2	242.3	0.6

20	8.8	217.1	1.3
21	8.2	225.0	1.5
22	4.0	231.9	1.8
23	2.9	252.6	1.7
24	2.1	271.0	0.7
1	2.2	27.1	2.8
2	3.3	193.2	1.9
3	5.2	190.3	5.2
4	2.8	170.3	1.2
5	4.1	104.5	0.7
6	4.0	107.6	0.4
7	7.3	180.6	7.2
8	12.5	195.7	5.8
9	14.3	189.2	4.0
10	14.8	186.1	0.1
11	12.5	184.0	-0.2
12	16.2	188.6	-0.2
13	13.5	183.8	-0.9
14	8.8	168.4	-1.1
15	10.0	200.3	-1.0
16	9.1	196.6	-0.9
17	9.6	197.7	-0.7
18	9.8	200.1	-0.2
19	11.1	200.8	0.5
20	12.6	201.5	0.9
21	3.7	153.5	-0.1
22	4.5	113.3	0.1
23	5.7	130.4	-0.2
24	5.9	125.2	-0.4
1	5.1	119.5	-0.2
2	6.0	116.7	0.1
3	6.9	115.9	0.8
4	8.5	106.7	1.3
5	7.8	104.7	1.4
6	5.7	123.1	0.6
7	6.9	141.0	-0.2
8	10.9	151.1	-0.2
9	11.9	158.8	-0.4
10	13.9	168.4	-0.7
11	11.8	177.6	-0.9
12	16.1	186.1	-1.0
13	20.5	190.6	-0.9
14	17.0	191.8	-1.0
15	20.4	196.4	-0.8
16	21.2	198.7	-0.7
17	18.3	199.2	-0.4
18	17.9	195.3	-0.2
19	19.4	193.8	0.2
20	19.0	194.0	0.7
21	16.5	192.7	0.7
22	17.6	192.2	0.5
23	12.0	186.8	0.1
24	5.7	127.5	-0.2
1	4.7	94.3	-0.4
2	5.8	112.4	-0.4

3	5.6	103.9	-0.5
4	4.7	120.7	-0.5
5	3.5	95.1	-0.4
6	3.6	125.7	-0.5
7	3.2	102.3	0.0
8	4.6	126.3	0.7

STOP TIME FEB 15, 1982 HOUR 7 MINUTE 35

RELEASE NUMBER 82008

CONTAINMENT PURGE

STARTING TIME

FEB 19, 1982

HOUR 20 MINUTE 16

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	14.7	205.1	3.2
21	10.0	246.6	2.8
22	4.1	295.6	2.1
23	3.6	285.3	2.3
24	4.0	290.1	2.5
1	2.9	293.2	1.5
2	2.4	238.6	2.5
3	3.2	261.1	2.8
4	3.9	260.3	3.3
5	1.7	337.2	3.7
6	3.0	241.5	3.4
7	5.7	304.7	2.6
8	4.6	291.9	3.1
9	6.4	287.0	0.8
10	7.2	305.0	-0.6
11	8.8	308.7	-0.8
12	9.0	290.9	-1.1
13	10.3	290.1	-1.2
14	10.9	297.8	-1.1
15	11.2	301.8	-1.1
16	11.7	302.8	-0.9
17	9.2	310.2	-0.7
18	5.1	306.3	-0.1
19	3.9	303.3	1.4
20	3.4	313.7	1.7
21	3.8	286.3	1.5
22	4.1	284.0	1.6
23	3.9	284.2	2.3
24	3.4	281.3	3.0
1	3.1	295.4	3.0
2	3.1	326.9	3.3
3	1.8	99.1	5.0
4	1.2	65.1	4.2
5	1.7	340.9	3.6
6	2.3	99.5	5.8
7	1.0	161.7	4.9
8	1.6	131.0	5.4
9	1.1	54.7	4.0
10	1.4	316.5	1.6
11	3.9	104.1	0.2
12	6.2	105.4	0.1
13	6.6	143.4	-0.5
14	8.3	203.2	-1.1
15	7.5	200.2	-1.1
16	7.2	196.6	-1.0
17	6.5	189.2	-0.9
18	3.0	177.1	-0.6
19	3.6	106.6	0.7
20	2.9	84.0	1.2

21	2.7	81.1	2.3
22	7.2	170.1	3.8
23	11.6	197.2	4.6
24	8.1	193.9	4.7
1	6.0	172.0	3.6
2	4.5	122.1	1.6
3	5.4	185.8	3.0
4	6.8	201.5	3.8
5	4.8	102.5	1.3
6	4.0	96.7	1.5
7	4.7	97.5	1.0

STOP TIME FEB 22, 1982 HOUR 6 MINUTE 0

STARTING TIME

FEB 26, 1982

HOUR 16 MINUTE 42

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	10.7	163.2	-1.1
17	10.8	172.3	-1.0
18	8.7	155.3	-0.8
19	7.3	145.0	-0.2
20	7.3	148.5	0.1
21	8.1	142.3	0.3
22	10.2	149.7	-0.0
23	9.2	155.4	-0.3
24	9.0	154.8	-0.4
1	8.9	162.6	-0.3
2	6.5	151.0	-0.4
3	6.8	144.3	-0.3
4	7.8	130.5	-0.1
5	5.7	141.9	-0.2
6	6.7	144.6	-0.0
7	4.2	138.9	0.2
8	7.2	140.6	-0.1
9	11.2	148.8	-0.7
10	14.5	161.6	-0.9
11	11.8	160.4	-1.0
12	13.2	154.4	-1.1
13	12.5	165.5	-1.1
14	12.6	162.3	-1.1
15	11.7	156.1	-1.1
16	11.8	154.6	-1.0
17	10.9	158.4	-0.9
18	9.9	145.7	-0.8
19	8.0	145.6	-0.1
20	7.9	138.6	0.6
21	10.2	145.1	0.4
22	11.0	145.1	0.4
23	9.3	147.1	0.4
24	10.6	146.7	0.1
1	11.5	150.8	-0.1
2	12.9	154.2	-0.1
3	13.4	164.6	-0.2
4	14.7	169.3	-0.2
5	10.4	173.0	-0.2
6	9.8	168.3	0.1
7	12.3	161.1	0.0
8	14.2	164.3	-0.1
9	15.3	173.3	-0.4
10	12.2	187.3	-0.7
11	10.0	201.1	-0.9
12	9.9	228.4	-1.0
13	5.6	257.8	-1.1
14	6.3	276.7	-1.3
15	5.5	256.2	-1.1
16	6.3	294.1	-1.2

17	4.0	307.8	-1.1
18	2.3	273.8	-0.7
19	3.3	235.3	0.6
20	2.0	261.7	2.4
21	1.8	306.8	3.4
22	1.6	312.9	3.6
23	2.2	303.5	3.8
24	2.4	333.4	4.1
1	3.1	333.7	3.2
2	1.8	288.4	2.4
3	1.7	290.5	1.8
4	1.9	245.9	1.5
5	1.4	196.3	1.9
6	1.3	246.6	2.6
7	1.4	102.1	3.8
8	1.2	90.9	4.2

STOP TIME MAR 1, 1982 HOUR 7 MINUTE 18

STARTING TIME MAR 4, 1982 HOUR 18 MINUTE 1

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	8.4	321.1	-0.8
19	7.7	318.9	-0.6
20	6.2	306.1	-0.6
21	7.0	310.3	-0.5
22	5.1	298.5	0.7
23	6.8	294.7	0.4
24	6.8	303.1	-0.1
1	7.9	310.0	-0.3
2	9.2	171.0	-0.7
3	9.5	-99.0	-0.8
4	10.1	-99.0	-0.7
5	10.0	-99.0	-0.5
6	7.9	-99.0	-0.3
7	7.2	-99.0	0.1
8	7.3	-99.0	0.1

STOP TIME MAR 5, 1982 HOUR 7 MINUTE 17

STARTING TIME MAR 5, 1982 HOUR 3 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
3	9.5	-99.0	-0.8
4	10.1	-99.0	-0.7
5	10.0	-99.0	-0.5
6	7.9	-99.0	-0.3
7	7.2	-99.0	0.1
8	7.3	-99.0	0.1
9	9.3	256.4	-0.6
10	10.0	287.2	-0.9
11	8.1	285.7	-0.8
12	8.1	284.9	-0.9
13	7.7	283.1	-1.1
14	8.6	283.0	-1.1
15	7.6	281.3	-1.1
16	6.2	278.3	-1.1
17	7.6	282.1	-0.9
18	6.6	283.3	-0.5
19	1.9	247.6	0.3
20	1.9	239.9	1.3
21	2.2	229.8	1.8
22	3.8	201.9	2.3
23	4.1	219.6	2.4
24	2.3	138.6	2.3
1	2.7	158.3	2.4
2	5.6	184.8	3.7

3	10.5	187.4	3.5
4	11.3	184.5	3.9
5	8.2	172.3	2.7
6	4.2	176.3	0.8
7	4.3	143.5	0.6
8	4.5	191.9	0.1
9	6.0	225.0	-0.1
10	7.1	241.8	-0.6
11	7.0	257.4	-0.7
12	9.5	282.1	-1.0
13	16.4	289.7	-1.2
14	16.8	286.0	-1.0
15	15.8	292.2	-1.2
16	12.1	295.3	-1.2
17	8.3	298.6	-1.0
18	11.1	289.6	-0.8
19	11.2	287.2	-0.1
20	10.8	287.2	0.1
21	10.0	289.2	0.1
22	9.7	286.5	0.3
23	7.8	284.5	0.5
24	7.4	286.8	0.5
1	6.2	288.4	0.9
2	4.1	277.2	1.2
3	2.6	267.6	1.8
4	2.1	263.5	1.4
5	2.8	268.3	1.8
6	1.4	304.5	2.4
7	0.9	279.4	2.2
8	2.6	57.6	2.0
9	3.3	329.8	1.8
10	4.1	104.2	-0.2
11	5.3	103.4	-0.9
12	5.4	158.4	-1.0
13	6.3	159.7	-1.0
14	6.0	161.8	-1.0
15	6.0	162.8	-0.9
16	7.2	148.4	-0.9
17	9.0	120.4	-0.8
18	8.8	118.8	-0.8
19	8.3	119.0	-0.5
20	7.3	115.7	0.3
21	8.1	117.5	0.2
22	7.7	112.3	-0.4
23	8.9	121.2	-0.3
24	7.2	121.5	0.1
1	6.7	119.2	0.3
2	7.3	110.5	-0.2
3	7.7	113.2	-0.2
4	7.6	103.8	0.1
5	4.8	346.7	0.1
6	4.0	151.8	-0.6
7	4.1	139.1	-0.4
8	3.9	191.6	-0.5

STOP TIME MAR 8, 1982 HOUR 7 MINUTE 20

RELEASE NUMBER 82011

CONTAINMENT PURGE

STARTING TIME

MAR 11, 1982

HOUR 17 MINUTE 55

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	6.4	150.8	-1.0
18	9.2	128.2	-0.8
19	8.0	121.3	-0.1
20	11.5	133.9	-0.3
21	10.5	141.1	-0.2
22	9.0	142.9	-0.2
23	8.9	130.1	0.3
24	12.3	137.8	0.1
1	12.9	130.4	-0.1
2	12.4	125.7	-0.1
3	12.8	131.2	-0.2
4	13.4	125.8	0.1
5	16.0	125.1	-0.3
6	16.2	124.2	-0.3
7	14.9	126.7	-0.2
8	13.6	126.8	-0.1
9	16.7	138.5	-2.0
10	16.8	138.9	-4.2
11	15.8	151.7	-1.9
12	14.4	163.1	-0.9
13	10.6	198.8	-1.0
14	15.5	255.6	-1.0
15	16.2	270.5	-0.8
16	11.8	270.7	-0.5
17	14.0	270.5	-0.7
18	16.3	273.6	-0.6
19	8.5	263.6	-0.1
20	7.0	254.7	0.4
21	7.5	246.7	0.8
22	8.9	237.7	1.2
23	11.3	220.1	1.6
24	11.6	222.6	1.9
1	12.1	222.6	1.3
2	10.2	230.5	1.9
3	8.7	232.9	1.8
4	9.9	219.6	2.6
5	9.7	214.3	3.4
6	11.0	210.9	3.5
7	13.8	200.0	4.3
8	13.4	202.4	4.3
9	14.2	212.9	2.2
10	13.8	222.1	-0.4
11	12.2	230.1	-1.0
12	11.2	234.6	-1.3
13	12.5	238.1	-1.4
14	12.2	241.4	-1.4
15	11.0	245.8	-1.4
16	9.0	249.8	-1.2
17	6.9	252.7	-1.0

18	5.0	221.4	-0.7
19	5.1	192.7	0.5
20	2.5	195.9	3.4
21	0.9	37.9	6.0
22	3.0	65.9	7.0
23	1.9	52.3	6.9
24	2.2	309.1	7.5
1	2.9	86.1	6.4
2	1.6	118.9	6.3
3	0.9	308.6	7.3
4	3.2	63.2	6.4
5	6.9	77.4	4.2
6	8.0	87.3	2.7
7	6.4	77.8	2.1
8	5.3	69.1	2.0
9	5.4	71.0	2.0
10	5.0	65.2	0.6
11	10.3	80.1	-0.8
12	14.7	81.8	-0.9
13	16.3	81.8	-0.8
14	14.1	84.2	-0.8
15	17.1	155.8	-0.9
16	10.1	128.3	-0.9
17	7.6	94.1	-0.9
18	5.8	57.4	-0.8
19	3.8	348.7	-0.6
20	7.7	47.1	-0.5
21	13.9	57.7	-0.7
22	10.8	67.1	-0.6
23	8.1	62.0	-0.7
24	8.7	63.5	-0.7
1	11.1	77.1	-0.7
2	9.7	80.9	-0.7
3	8.5	76.3	-0.7
4	8.0	76.1	-0.7
5	8.9	70.8	-0.7
6	8.1	74.1	-0.7
7	8.4	84.3	-0.6
8	7.4	83.5	-0.6

STOP TIME MAR 15, 1982 HOUR 7 MINUTE 17

TIME HOUR	STARTING TIME WS10 MPH	WD10 DEG	MAR 18, 1982 DT100 DEG C HOUR 18 MINUTE 5
18	7.1	65.4	-0.8
19	7.4	69.7	-0.8
20	9.1	76.0	-0.8
21	7.4	77.3	-0.8
22	8.2	78.0	-0.8
23	8.3	74.6	-0.8
24	9.2	80.2	-0.7
1	7.5	62.7	-0.6
2	9.0	81.4	-0.6
3	7.9	7.3	-0.6
4	7.1	254.3	-0.6
5	8.3	69.9	-0.6
6	13.3	92.6	-0.6
7	18.8	99.5	-0.4
8	9.8	88.3	-0.7
9	15.1	92.4	-0.7
10	16.9	95.9	-0.6
11	18.4	99.6	-0.4
12	19.2	100.7	-0.4
13	19.3	102.3	-0.3
14	18.6	105.8	-0.3
15	19.8	109.1	-0.3
16	18.5	118.1	-0.4
17	12.6	346.2	-0.7
18	8.5	139.5	-0.6
19	6.5	150.7	-0.3
20	7.8	197.4	-0.1
21	8.2	200.1	1.3
22	10.4	196.4	2.0
23	10.3	199.1	1.9
24	9.8	209.7	2.6
1	10.4	202.7	2.9
2	10.2	195.2	3.0
3	13.8	206.3	1.8
4	14.3	237.5	0.4
5	12.6	249.7	-0.1
6	11.6	252.7	-0.1
7	10.8	257.0	-0.2
8	8.4	262.9	-0.7
9	10.9	280.8	-1.1
10	10.9	278.4	-1.3
11	11.6	275.5	-1.4
12	12.3	268.9	-1.6
13	12.6	265.9	-1.4
14	12.9	267.2	-1.4
15	13.0	266.0	-1.3
16	12.7	268.1	-1.1
17	13.9	272.1	-1.0
18	13.8	275.3	-0.8

19	12.3	275.3	-0.6
20	11.6	282.0	-0.7
21	14.5	288.7	-0.8
22	14.5	289.3	-0.9
23	14.1	291.6	-0.9
24	14.6	287.9	-0.9
1	11.4	290.8	-0.9
2	13.8	289.1	-0.9
3	14.3	293.5	-0.9
4	12.4	290.9	-0.9
5	10.7	291.3	-0.8
6	10.9	292.8	-0.9
7	11.0	297.7	-0.9
8	12.6	294.4	-0.9
9	11.9	302.9	-1.0
10	12.5	310.1	-1.1
11	11.6	309.9	-1.0
12	11.1	316.0	-1.2
13	9.6	311.0	-1.3
14	9.8	317.8	-1.2
15	8.8	322.1	-1.4
16	7.2	340.1	-1.4
17	8.6	317.8	-1.2
18	7.2	315.0	-1.0
19	4.6	313.9	-0.7
20	3.5	296.1	-0.1
21	2.4	290.7	0.7
22	2.5	292.3	1.0
23	4.3	294.0	-0.1
24	2.7	290.7	-0.1
1	3.2	285.9	0.2
2	2.9	278.5	0.2
3	4.1	280.9	0.1
4	4.3	268.4	-0.1
5	3.2	283.3	-0.1
6	2.5	272.6	0.1
7	2.1	268.8	0.1
8	4.0	271.1	-0.7
9	5.1	280.6	-0.9

STOP TIME MAR 22.1982 HOUR 8 MINUTE 14

STARTING TIME

MAR 25, 1982

HOUR 16 MINUTE 52

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	16.4	302.8	-1.4
17	13.9	303.5	-1.4
18	13.2	299.3	-1.1
19	8.1	305.0	-0.7
20	5.1	295.5	0.1
21	3.3	285.9	0.8
22	2.9	270.6	0.3
23	2.1	252.6	0.9
24	1.2	215.4	1.3
1	2.0	205.7	1.1
2	1.6	207.5	1.8
3	1.0	288.9	2.1
4	1.9	259.8	2.1
5	1.3	338.8	2.4
6	2.4	4.7	3.0
7	1.3	219.4	3.0
8	1.3	356.2	0.8
9	2.1	14.5	-0.5
10	2.5	10.0	-1.3
11	2.8	314.1	-1.4
12	3.9	352.5	-1.4
13	4.0	346.9	-1.6
14	3.6	346.6	-1.6
15	4.9	338.2	-1.5
16	4.2	261.0	-1.4
17	5.1	245.6	-1.4
18	4.4	45.8	-1.2
19	5.5	49.9	-0.7
20	6.8	63.6	-0.5
21	8.4	66.5	-0.8
22	8.7	73.0	-0.9
23	8.5	81.2	-0.9
24	9.2	79.1	-0.9
1	9.1	78.0	-0.9
2	9.3	87.0	-1.0
3	11.7	97.6	-1.0
4	11.7	96.3	-0.9
5	12.5	97.0	-1.1
6	12.8	97.4	-1.0
7	11.7	98.5	-1.1
8	13.9	105.9	-1.0
9	14.6	103.7	-1.0
10	14.0	114.1	-1.4
11	12.5	117.1	-1.4
12	13.3	113.9	-1.6
13	11.6	112.3	-1.5
14	11.3	306.8	-1.5
15	10.5	132.7	-1.5
16	10.1	135.4	-1.5

7	9.9	147.7	-1.3
8	9.2	140.0	-1.2
9	8.0	132.9	-0.5
20	8.4	129.4	0.3
21	7.4	126.0	0.8
22	10.4	142.4	-0.2
23	-99.0	-99.0	-99.0
24	-99.0	-99.0	-99.0
1	12.0	147.8	-0.4
2	11.6	149.7	-0.5
3	11.8	164.5	-0.4
4	10.9	164.4	-0.4
5	8.3	171.2	-0.2
6	11.8	150.9	-0.6
7	12.7	137.0	-0.6
8	13.9	144.3	-0.9
9	16.9	145.0	-1.2
10	16.1	157.2	-1.3
11	15.6	160.6	-1.5
12	17.3	159.7	-1.5
13	18.6	163.3	-1.6
14	19.6	169.8	-1.4
15	18.3	174.2	-1.2
16	18.3	176.1	-1.2
17	18.8	173.7	-1.1
18	16.3	174.0	-1.0
19	10.8	171.1	-0.7
20	7.8	152.0	-0.5
21	6.3	155.0	0.1
22	7.2	149.5	-0.1
23	9.8	148.9	-0.4
24	10.0	141.9	-0.8
1	12.9	142.9	-0.8
2	15.5	147.5	-0.7
3	14.0	141.5	-0.8
4	14.4	135.7	-0.9
5	15.7	140.1	-0.6
6	16.4	142.0	-0.8
7	18.2	141.4	-0.8

STOP TIME MAR 29,1982 HOUR 6 MINUTE 22

RELEASE NUMBER 82014 CONTAINMENT PURGE

STARTING TIME APR 1, 1982 HOUR 20 MINUTE 9

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	10.3	109.1	1.4
21	11.6	117.9	0.7
22	12.7	123.5	-0.1
23	12.0	122.3	0.3
24	15.7	135.3	-0.5
1	15.7	139.3	-0.6
2	15.6	139.2	-0.6
3	15.7	139.6	-0.7
4	19.9	148.0	-0.7
5	20.4	152.9	-0.8
6	22.2	153.0	-0.7
7	21.2	153.1	-0.7
8	21.8	150.5	-0.9
9	22.9	148.7	-1.1
10	25.2	149.1	-1.4
11	23.4	153.4	-1.5
12	25.1	153.8	-1.6
13	23.8	159.7	-1.7
14	23.7	174.2	-1.6
15	20.4	196.3	-1.3
16	17.9	198.2	-1.1
17	23.9	289.0	-1.4

STOP TIME APR 2, 1982 HOUR 16 MINUTE 14

STARTING TIME APR 3, 1982 HOUR 4 MINUTE 54

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
4	26.2	296.8	-0.6
5	23.1	299.8	-0.7
6	22.4	300.6	-0.8
7	21.9	299.0	-0.7
8	25.4	297.7	-0.8
9	23.6	299.8	-1.2
10	21.4	300.3	-1.4
11	20.1	295.9	-1.5
12	19.8	294.7	-1.7
13	17.7	291.3	-1.7
14	17.7	294.0	-1.7
15	15.8	292.4	-1.8
16	15.5	298.1	-1.7
17	15.5	300.6	-1.5
18	13.8	303.7	-1.2
19	10.3	313.1	-0.7
20	7.1	314.4	-0.1

21	5.3	314.0	0.1
22	4.3	316.1	0.2
23	3.2	325.6	-0.3
24	7.1	358.3	-0.9
1	8.5	353.8	-0.9
2	5.3	1.4	-0.8
3	7.1	1.0	-0.9
4	6.9	9.5	-0.8
5	6.7	22.7	-0.8
6	5.1	30.3	-0.7
7	5.9	7.4	-0.9
8	8.3	19.4	-1.3
9	9.9	26.5	-1.6
10	10.8	35.1	-1.6
11	11.8	38.9	-1.6
12	12.7	35.6	-1.7
13	12.0	36.2	-1.7
14	13.4	40.1	-1.7
15	12.9	37.4	-1.6
16	13.2	40.5	-1.6
17	13.4	48.4	-1.3
18	14.6	48.7	-1.1
19	11.4	43.2	-0.9
20	10.0	41.4	-0.7
21	8.1	30.1	-0.7
22	8.8	25.6	-0.8
23	8.6	358.4	-1.0
24	8.6	349.7	-1.0
1	8.1	357.2	-0.9
2	9.6	10.3	-1.0
3	9.8	11.9	-1.0
4	7.6	334.9	-1.0
5	8.1	319.9	-0.9
6	9.5	328.6	-0.9
7	8.6	337.2	-0.8
8	8.9	329.9	-0.9
9	7.6	321.7	-1.0

STOP TIME APR 5, 1982 HOUR 8 MINUTE 33

RELEASE NUMBER 82015 CONTAINMENT PURGE

STARTING TIME APR 8, 1982 HOUR 17 MINUTE 72

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	9.2	285.6	-1.1
18	9.1	284.3	-1.0
19	9.9	282.6	-0.9
20	10.5	284.8	-0.9
21	9.2	285.4	-0.8
22	7.9	281.7	-0.7
23	7.8	282.5	-0.7
24	8.5	289.3	-0.6
1	7.1	288.9	-0.4
2	3.8	275.4	-0.1
3	4.8	256.0	-0.5
4	5.4	261.1	-0.5
5	4.5	262.2	-0.1
6	3.3	252.7	-0.4
7	4.6	249.2	-0.2
8	4.8	252.2	-0.6
9	5.5	269.3	-1.2
10	5.9	233.5	-1.3
11	7.6	207.1	-1.3
12	7.3	196.5	-1.4
13	8.6	183.4	-1.4
14	8.5	198.2	-1.5
15	10.9	196.7	-1.4
16	10.8	201.3	-1.4
17	9.6	206.0	-1.3
18	8.8	261.4	-1.2
19	7.0	272.4	-0.6
20	4.6	270.4	-0.1
21	3.8	262.0	-0.2
22	3.9	267.6	-0.2
23	5.1	277.2	-0.2
24	5.7	276.8	-0.1
1	6.5	273.1	-0.1
2	5.4	272.8	0.3
3	6.1	255.3	0.2
4	6.6	253.7	0.3
5	5.3	249.1	-0.3
6	6.5	225.0	0.6
7	8.7	220.7	0.1
8	7.7	251.9	-1.1
9	10.9	269.2	-1.4
10	12.4	270.3	-1.7
11	12.3	263.9	-1.9
12	14.2	258.3	-1.9
13	13.1	262.4	-2.0
14	13.4	258.2	-2.0
15	13.1	264.2	-1.9
16	11.8	263.5	-1.8
17	10.6	276.7	-1.6

18	7.7	307.0	-1.2
19	5.2	322.5	-0.5
20	2.4	326.9	0.6
21	1.1	213.2	1.2
22	1.3	242.7	2.0
23	2.8	102.8	1.8
24	3.9	108.4	0.9
1	2.9	90.0	1.1
2	4.0	104.8	1.1
3	1.9	168.0	1.7
4	2.2	112.8	1.5
5	3.5	101.4	1.1
6	3.6	99.1	1.1
7	3.4	104.5	0.6
8	8.7	108.4	-0.7
9	10.4	110.9	-1.3
10	13.1	110.5	-1.4
11	15.8	114.9	-1.6
12	16.4	118.2	-1.6
13	16.4	122.1	-1.8
14	16.6	141.0	-1.7
15	16.3	136.5	-1.5
16	17.3	164.2	-1.4
17	14.0	167.8	-1.2
18	11.5	159.7	-0.9
19	10.4	151.0	-0.5
20	14.2	159.5	-0.2
21	14.3	163.7	-0.1
22	15.8	166.1	-0.1
23	13.3	158.4	0.2
24	14.6	157.3	-0.1
1	15.1	159.1	0.1
2	13.5	156.5	-0.1
3	13.1	156.2	-0.3
4	12.3	154.6	-0.3
5	11.9	154.2	-0.3
6	12.1	152.0	-0.3

STOP TIME APR 12, 1982 HOUR 5 MINUTE 16

RELEASE NUMBER 82016 CONTAINMENT PURGE

STARTING TIME APR 15,1982 HOUR 18 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	10.2	118.7	-0.9
19	11.9	126.5	-0.1
20	8.3	194.7	-0.2
21	6.8	13.0	0.1
22	6.9	297.7	0.1
23	10.4	82.3	-0.3

STOP TIME APR 15,1982 HOUR 22 MINUTE 44

STARTING TIME APR 16,1982 HOUR 10 MINUTE 20

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
10	10.6	332.9	-0.8
11	12.4	331.0	-1.0
12	21.6	318.6	-1.0
13	19.6	315.7	-0.5
14	17.9	300.7	-0.5
15	20.7	320.2	-0.6
16	20.0	326.8	-0.7
17	14.6	330.5	-0.8
18	15.6	327.4	-0.8
19	12.6	318.0	-0.6
20	12.2	319.9	-0.5
21	10.7	312.4	-0.3
22	10.5	305.4	0.1
23	9.2	303.3	0.4
24	9.7	290.4	0.1
1	11.8	296.9	0.1
2	12.6	302.6	0.1
3	13.4	301.5	-0.1
4	12.1	300.7	-0.1
5	9.3	295.0	-0.1
6	8.0	292.7	0.3
7	6.8	285.4	-0.1
8	7.8	285.8	-0.9
9	7.4	296.5	-1.3
10	8.4	301.3	-1.5
11	11.6	298.7	-1.4
12	12.5	305.9	-1.6
13	12.5	300.7	-1.6
14	11.2	303.7	-1.7
15	10.7	295.6	-1.6
16	9.5	283.2	-1.6
17	7.1	272.7	-1.3
18	7.3	250.6	-1.0

19	7.1	218.5	-0.4
20	6.1	188.8	1.1
21	8.3	187.6	1.9
22	8.9	185.6	2.1
23	9.1	187.1	2.5
24	10.6	194.4	1.6
1	11.6	195.7	2.1
2	12.8	189.4	4.0
3	11.7	182.6	3.7
4	8.7	170.1	1.6
5	9.8	159.0	1.1
6	11.6	160.9	1.0
7	13.3	156.8	0.3
8	15.3	154.6	-0.4
9	20.8	168.9	-1.0
10	24.9	167.6	-1.2
11	24.7	165.9	-1.4
12	26.4	174.1	-1.4
13	25.3	176.8	-1.4
14	24.0	181.2	-1.4
15	21.9	187.8	-1.4
16	21.5	187.6	-1.3
17	19.7	189.0	-1.2
18	17.6	182.1	-1.0
19	12.2	166.7	-0.5
20	10.4	145.3	0.2
21	11.8	148.7	0.4
22	12.4	153.6	0.5
23	14.0	154.9	0.5
24	13.7	163.6	0.1
1	10.9	198.0	-0.3
2	8.0	174.1	-0.3
3	12.3	217.0	0.2
4	15.5	226.9	0.3
5	7.3	255.6	0.1
6	6.5	296.1	-0.4
7	3.5	249.0	0.8
8	3.8	177.2	0.7

STOP TIME APR 19, 1982 HOUR 7 MINUTE 18

STARTING TIME

APR 22, 1982

HOUR 17 MINUTE 55

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	7.5	221.0	-1.3
18	8.6	199.3	-1.2
19	7.4	192.8	-0.9
20	6.6	179.5	0.5
21	7.7	183.4	1.5
22	10.9	179.7	1.6
23	10.3	187.4	2.2
24	9.4	186.9	1.9
1	11.4	183.9	1.4
2	12.0	186.3	0.9
3	12.4	192.0	0.9
4	11.8	191.4	1.5
5	11.3	189.3	1.4
6	12.6	192.7	1.5
7	14.6	197.1	0.4
8	16.1	203.1	-0.7
9	17.2	208.8	-1.2
10	18.6	218.3	-1.4
11	16.8	215.0	-1.5
12	16.6	206.1	-1.6
13	15.7	205.3	-1.7
14	17.0	193.8	-1.6
15	18.8	201.0	-1.6
16	17.5	200.0	-1.5
17	16.5	201.8	-1.4
18	15.1	197.3	-1.2
19	12.8	194.6	-0.8
20	8.5	184.9	0.2
21	8.5	170.1	0.9
22	9.6	176.6	0.8
23	11.1	186.0	0.4
24	10.4	182.8	0.6
1	10.2	189.5	0.6
2	8.9	190.0	0.4
3	10.9	182.8	0.2
4	10.8	188.7	-0.3
5	10.7	184.6	0.1
6	10.7	182.3	0.1
7	13.2	183.3	-0.4
8	14.8	194.6	-1.1
9	15.4	192.4	-1.3
10	20.1	201.6	-1.4
11	20.2	199.3	-1.7
12	21.0	191.6	-1.7
13	21.3	193.7	-1.7
14	19.5	188.9	-1.6
15	19.9	179.6	-1.6
16	19.1	182.0	-1.6
17	17.0	189.8	-1.4

18	20.8	170.4	-1.2
19	13.7	161.4	-0.9
20	12.4	167.2	-0.7
21	12.0	187.0	-0.6
22	10.4	195.4	-0.6
23	9.4	177.8	-0.4
24	9.6	171.6	-0.5
1	9.7	182.6	-0.6
2	11.4	183.1	-0.5
3	12.0	188.7	-0.3
4	12.3	195.5	-0.3
5	12.9	188.1	-0.5
6	9.9	177.1	-0.5
7	8.2	181.7	-0.6
8	8.8	180.9	-0.8
9	7.1	197.2	-1.2
10	6.6	213.7	-1.3
11	5.6	197.8	-1.4
12	7.3	180.6	-1.7
13	6.2	188.0	-1.6
14	6.4	196.7	-1.5
15	4.7	214.8	-1.6
16	4.4	176.7	-1.4
17	5.2	213.5	-1.3
18	7.1	313.9	-0.7
19	3.5	19.3	-0.2
20	3.3	66.9	-0.1
21	3.7	333.2	-0.1
22	4.5	15.3	0.1
23	11.3	340.2	-0.5
24	9.7	345.3	-0.7
1	6.8	345.3	-0.6
2	6.7	341.4	-0.7
3	7.0	325.6	-0.6
4	8.9	325.5	-0.4
5	9.5	327.5	-0.7
6	9.5	330.4	-0.6

STOP TIME APR 26, 1982 HOUR 5 MINUTE 11

STARTING TIME APR 29, 1982 HOUR 20 MINUTE 35

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	2.2	159.4	-0.4
21	2.7	300.1	0.1
22	1.8	226.0	0.5
23	1.4	112.1	1.0
24	2.1	15.1	0.7
1	2.3	117.3	0.5
2	3.2	307.4	0.4
3	2.9	321.7	0.4
4	2.4	279.2	0.0
5	2.1	302.4	-0.1
6	1.7	284.3	-0.2
7	2.4	277.7	-0.7
8	4.6	307.0	-1.1
9	6.4	318.4	-1.5
10	5.6	311.1	-1.7
11	5.3	323.1	-1.5
12	6.1	328.6	-1.6
13	5.8	330.7	-1.6
14	6.1	353.6	-1.6
15	5.9	17.4	-1.8
16	4.7	349.0	-1.7
17	4.3	57.6	-1.5
18	5.1	87.8	-1.3
19	6.2	146.3	-1.0
20	5.5	179.0	0.1
21	7.0	189.8	0.9
22	8.3	206.5	1.7
23	9.6	215.3	2.1
24	9.2	221.9	2.0
1	8.2	228.6	1.8
2	5.4	251.1	2.0
3	2.9	42.5	1.5
4	2.1	104.0	3.8
5	1.9	140.4	3.1
6	4.6	121.0	3.0
7	3.9	124.9	2.3
8	4.6	118.6	0.6
9	5.0	119.0	-1.3
10	3.9	130.2	-1.4
11	6.4	178.6	-1.6
12	7.3	177.5	-1.5
13	7.9	161.2	-1.6
14	9.3	189.4	-1.5
15	7.9	197.7	-1.6
16	8.3	187.0	-1.6
17	7.7	174.4	-1.4
18	7.7	176.8	-1.3
19	7.1	184.7	-1.0
20	5.7	191.6	0.1

21	6.3	197.9	1.2
22	5.4	199.2	2.1
23	5.1	201.6	2.9
24	2.3	126.9	3.9
1	1.9	148.9	3.9
2	2.1	146.4	4.2
3	2.5	106.6	5.1
4	3.7	88.2	5.0
5	2.5	71.9	5.0
6	2.8	90.2	4.4
7	4.2	96.0	3.2
8	4.0	93.7	0.9
9	6.8	140.8	-0.8
10	11.2	178.5	-1.5
11	11.2	170.2	-1.6
12	11.1	170.3	-1.5
13	11.2	169.1	-1.7
14	12.7	176.3	-1.7
15	12.2	186.0	-1.6
16	12.6	182.9	-1.6
17	11.3	193.7	-1.3
18	11.0	185.5	-1.2
19	8.4	163.0	-0.9
20	7.2	158.5	-0.2
21	8.0	155.2	0.5
22	7.8	156.0	0.8
23	9.5	156.7	0.1
24	10.4	167.4	-0.2
1	11.7	166.1	0.1
2	11.5	164.9	0.0
3	11.8	169.0	-0.2
4	11.2	170.1	-0.5
5	9.7	169.2	-0.3
6	10.4	166.0	-0.1
7	10.8	166.0	-0.7
8	12.9	170.0	-1.2

STOP TIME MAY 3, 1982 HOUR 7 MINUTE 35

STARTING TIME MAY 6, 1982 HOUR 18 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	12.1	213.1	-1.0
19	12.4	208.4	-0.7
20	12.8	210.9	-0.0
21	13.5	207.5	0.6
22	14.5	211.5	0.9
23	15.7	222.7	0.5
24	14.8	223.3	0.9
1	12.5	223.1	2.1
2	12.1	217.9	3.6
3	12.4	221.5	4.8
4	10.1	230.4	4.3
5	4.4	196.0	0.6
6	4.4	169.6	0.9
7	5.4	156.6	0.7
8	4.8	149.4	-0.2
9	8.2	212.1	-0.8
10	8.0	201.7	-1.1
11	10.8	203.6	-1.2
12	10.3	221.6	-1.3
13	9.9	234.9	-1.3
14	10.8	230.1	-1.1
15	14.1	235.6	-1.2
16	10.7	240.0	-0.9
17	9.9	271.6	-0.3
18	11.9	173.3	-0.8
19	10.0	144.8	-0.3
20	7.8	116.4	0.5
21	10.2	155.2	1.2
22	10.4	167.4	1.5
23	11.5	190.6	1.1
24	9.8	202.6	0.3
1	3.9	303.9	1.2
2	3.5	138.5	2.9
3	3.5	93.6	2.6
4	4.4	97.2	0.9
5	4.5	138.9	2.4
6	3.8	137.9	2.2
7	4.9	129.2	0.4
8	8.9	192.8	-1.0
9	7.6	203.8	-1.3
10	7.1	173.9	-1.3
11	8.2	172.9	-1.4
12	9.1	139.1	-1.5
13	11.8	127.9	-1.6
14	15.1	134.8	-1.5
15	15.1	150.3	-1.6
16	14.7	166.2	-1.5
17	14.6	162.6	-1.4
18	15.7	164.8	-1.1

19	13.3	164.0	-0.8
20	14.4	161.7	-0.5
21	14.6	166.8	-0.4
22	14.0	158.5	-0.5
23	15.0	161.9	-0.5
24	15.4	163.8	-0.5
1	15.0	164.2	-0.5
2	14.6	165.0	-0.5
3	16.3	169.2	-0.5
4	16.7	169.7	-0.5
5	16.2	173.0	-0.6
6	15.3	168.8	-0.7
7	14.0	181.0	-0.6
8	15.1	174.2	-0.2
9	13.0	150.9	-0.1
10	14.6	146.8	-0.3
11	16.9	144.7	-0.2
12	19.3	147.2	-0.9
13	20.6	169.9	-1.1
14	18.8	165.7	-0.8
15	20.2	159.2	-1.1
16	23.1	164.8	-1.3
17	22.8	170.0	-1.1
18	22.2	174.5	-0.9
19	19.9	170.2	-0.6
20	17.1	167.6	-0.5
21	19.5	168.7	-0.5
22	18.4	171.6	-0.5
23	18.0	173.9	-0.5
24	18.9	168.2	-0.5
1	20.1	171.4	-0.5
2	16.8	179.3	-0.4
3	19.9	185.0	-0.4
4	18.4	182.2	-0.4
5	17.3	173.4	-0.5
6	16.9	173.8	-0.5
7	17.4	171.3	-0.8
8	18.8	172.6	-1.0

STOP TIME MAY 10, 1982 HOUR 7 MINUTE 24

STARTING TIME MAY 13, 1982 HOUR 18 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	4.8	156.1	-0.8
19	7.9	127.6	-0.7
20	9.4	153.3	-0.4
21	11.0	156.2	-0.6
22	11.2	162.4	-0.6
23	10.8	165.2	-0.6
24	8.7	159.1	-0.6
1	9.7	153.2	-0.7
2	9.1	160.3	-0.7
3	9.1	168.7	-0.7
4	10.8	160.6	-0.8
5	11.2	141.3	-0.6
6	10.6	134.0	-0.4
7	11.6	129.9	-0.7
8	11.9	132.3	-0.8
9	9.1	137.1	-0.9
10	10.9	147.2	-0.9
11	12.1	139.3	-1.0
12	11.1	163.4	-1.1
13	10.8	169.2	-1.0
14	9.3	163.2	-1.0
15	11.3	133.0	-1.1
16	11.8	143.5	-1.0
17	11.4	142.6	-1.0
18	8.9	186.7	-0.8
19	8.1	147.3	1.5
20	9.2	161.9	-0.1
21	10.6	142.7	0.4
22	11.0	154.7	0.7
23	11.0	138.0	0.5
24	10.3	156.3	-0.3
1	11.2	162.5	-0.4
2	11.7	156.9	-0.2
3	10.0	152.0	0.0
4	11.3	145.5	0.1
5	9.3	133.5	-0.4
6	8.3	138.6	-0.5
7	8.5	138.4	-0.7
8	8.9	124.0	-1.0
9	12.2	136.0	-1.1
10	11.7	148.7	-1.1
11	10.6	147.6	-1.1
12	10.2	133.0	-1.1
13	9.3	151.2	-1.2
14	10.9	149.5	-1.2
15	10.1	166.4	-1.1
16	9.3	148.6	-1.1
17	8.8	219.2	-0.8
18	10.9	209.5	-0.9

19	9.8	174.6	-0.7
20	11.2	175.8	0.1
21	11.1	192.2	0.8
22	9.9	190.8	1.0
23	9.2	191.0	1.2
24	9.4	186.5	1.8
1	9.1	185.1	2.8
2	8.7	188.2	2.9
3	8.7	190.7	2.2
4	8.4	200.5	1.9
5	8.7	212.3	2.2
6	7.0	211.0	1.2
7	9.9	216.6	0.5
8	11.0	220.1	-0.6
9	10.2	208.3	-0.8
10	9.5	186.4	-1.1
11	4.2	204.5	-1.3
12	7.5	185.0	-1.2
13	4.8	175.9	-1.3
14	5.5	175.6	-1.3
15	4.4	175.2	-1.2
16	5.1	171.7	-1.3
17	7.3	177.2	-1.0
18	8.3	184.3	-1.0
19	8.4	174.5	-0.7
20	9.4	128.2	-0.3
21	8.8	146.1	1.0
22	10.1	153.7	1.1
23	8.9	177.5	1.7
24	9.9	184.2	0.9
1	10.9	153.3	0.8
2	5.8	98.6	1.9
3	4.6	99.9	2.2
4	8.9	116.2	1.9
5	11.0	114.9	1.4
6	7.7	96.4	0.7
7	4.5	82.7	-0.2
8	5.1	76.4	-0.6

STOP TIME MAY 17, 1982 HOUR 7 MINUTE 12

STARTING TIME

MAY 20, 1982

HOUR 17 MINUTE 53

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	5.6	53.0	-1.1
18	4.3	17.0	-1.1
19	8.0	60.4	-0.8
20	8.0	14.1	-0.7
21	8.0	60.3	-0.7
22	8.4	20.0	-0.7
23	7.6	322.0	-0.4
24	8.3	22.0	-0.6
1	8.6	13.4	-0.7
2	7.3	34.0	-0.8
3	7.3	70.3	-0.9
4	7.4	74.4	-0.9
5	9.0	56.7	-1.0
6	8.6	48.8	-1.0
7	7.7	42.8	-1.1
8	6.9	43.8	-1.1
9	7.5	53.5	-1.2
10	9.6	63.4	-1.1
11	9.3	41.1	-1.2
12	9.7	11.9	-1.1
13	9.7	355.8	-1.1
14	9.0	352.2	-1.0
15	9.1	344.6	-1.0
16	9.1	343.6	-1.2
17	9.6	338.3	-1.1
18	9.1	352.4	-1.1
19	9.7	333.2	-0.9
20	10.3	324.8	-0.8
21	10.0	322.9	-0.7
22	7.6	311.7	-0.8
23	5.2	309.6	-0.9
24	6.0	305.8	-0.9
1	6.1	311.9	-0.9
2	5.6	311.3	-0.9
3	5.9	309.0	-0.8
4	6.0	311.0	-0.8
5	6.0	309.4	-0.8
6	6.2	315.5	-0.8
7	6.7	312.4	-0.9
8	6.0	312.4	-1.0
9	5.8	307.7	-1.1
10	6.6	316.1	-1.3

STOP TIME

MAY 22, 1982

HOUR 9 MINUTE 10

STARTING TIME

MAY 22, 1982

HOUR 11 MINUTE 19

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
11	6.6	319.8	-1.4
12	6.8	322.5	-1.3
13	9.5	334.0	-1.3
14	9.8	337.8	-1.3
15	9.5	338.5	-1.1
16	8.8	346.9	-1.2
17	8.9	347.8	-1.1
18	7.1	347.9	-1.1
19	9.2	4.4	-1.0
20	7.6	8.5	-0.9
21	4.1	355.0	-0.8
22	3.5	88.1	-0.9
23	4.7	7.6	-1.0
24	3.4	113.2	-1.0
1	1.8	228.3	-0.9
2	1.4	251.7	-0.7
3	2.0	284.5	-0.6
4	2.9	315.6	-0.7
5	2.9	318.0	-0.7
6	2.6	293.5	-0.8
7	4.5	316.3	-0.9
8	5.9	59.2	-1.1
9	5.4	61.8	-1.3
10	7.3	197.6	-1.4
11	5.2	336.4	-1.4
12	7.6	23.6	-1.3
13	7.8	98.2	-1.2
14	5.9	319.7	-1.4
15	6.1	55.0	-1.5
16	6.3	22.2	-1.5
17	7.3	95.6	-1.3
18	7.8	107.9	-1.2
19	8.5	101.3	-1.0
20	9.1	95.0	-0.8
21	8.5	93.5	-0.6
22	8.3	206.8	0.2
23	8.9	137.9	0.1
24	10.4	140.2	0.1
1	9.1	125.7	0.1
2	6.7	4.5	-0.1
3	9.6	129.3	-0.3
4	10.6	138.5	-0.2
5	8.8	109.2	-0.3
6	9.5	119.0	-0.5
7	9.7	131.9	-0.6
8	7.1	128.1	-0.7

STOP TIME

MAY 24, 1982

HOUR 7 MINUTE 15

STARTING TIME MAY 27, 1982 HOUR 17 MINUTE 59

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	5.1	167.9	-1.3
18	4.8	125.5	-1.3
19	4.9	129.3	-1.1
20	5.6	152.9	0.4
21	6.5	195.7	1.9
22	5.3	96.7	3.2
23	7.0	123.7	2.8
24	4.8	129.4	3.1
1	4.4	192.3	3.0
2	4.7	233.2	1.6
3	7.4	120.2	1.2
4	7.0	93.3	1.0
5	6.4	100.7	0.8
6	10.0	131.7	0.4
7	11.3	128.6	-0.2
8	10.1	117.7	-0.7
9	12.2	125.1	-1.0
10	11.2	128.9	-1.0
11	10.0	127.6	-1.0
12	11.0	135.7	-0.9
13	11.0	113.3	-0.9
14	8.9	103.9	-1.2
15	5.8	113.2	-1.2
16	5.6	121.3	-1.0
17	7.5	123.2	-0.8
18	10.5	102.4	-0.7
19	9.6	112.1	-0.5
20	8.0	77.8	-0.6
21	6.9	51.4	-0.2
22	8.0	64.8	-0.2
23	9.6	89.1	-0.4
24	9.1	62.1	-0.6
1	6.9	64.3	-0.5
2	8.3	358.2	-0.4
3	8.2	42.0	-0.5
4	5.3	48.5	-0.5
5	7.6	315.4	-0.0
6	9.1	325.4	0.4
7	8.7	328.5	-0.2
8	9.3	336.4	-1.1
9	9.7	346.3	-1.1
10	9.1	348.8	-1.2
11	9.6	351.1	-1.2
12	8.4	2.1	-1.6
13	9.2	356.9	-1.4
14	9.6	355.5	-1.3
15	8.8	338.4	-1.4
16	7.4	335.2	-1.6
17	9.6	343.1	-1.4

18	9.6	341.2	-1.3
19	8.5	337.6	-0.9
20	6.4	332.7	-0.3
21	3.6	258.7	1.2
22	4.7	296.2	1.4
23	5.1	157.7	1.9
24	6.8	232.7	2.2
1	8.2	131.1	2.4
2	8.7	131.9	2.2
3	9.2	126.9	1.4
4	6.4	116.0	1.6
5	3.6	160.7	1.7
6	6.1	131.6	1.2
7	9.0	117.1	-0.0
8	10.5	125.7	-1.0
9	7.3	132.6	-0.9
10	10.9	126.2	-0.7
11	7.0	135.0	-0.3
12	3.9	122.8	-0.5
13	10.8	186.6	-0.9
14	9.3	206.2	-1.2
15	7.5	244.3	-1.3
16	7.1	309.9	-1.1
17	6.8	312.5	-1.0
18	7.0	310.9	-1.0
19	5.3	305.5	-1.0
20	4.8	310.0	-0.9
21	6.2	310.9	-0.8
22	5.7	312.5	-0.8
23	7.3	318.1	-0.8
24	8.4	320.6	-0.8
1	8.6	314.3	-0.9
2	6.6	308.1	-0.7
3	8.1	308.7	-0.6
4	10.1	310.3	-0.6
5	9.9	306.1	-0.3
6	8.8	309.6	-0.5
7	7.8	310.1	-0.7
8	8.7	313.8	-0.9
9	7.5	312.0	-1.1
10	6.7	314.6	-1.3
11	6.6	314.7	-1.4
12	7.0	314.4	-1.7
13	5.7	310.2	-1.7
14	5.4	307.9	-1.7
15	6.2	301.4	-1.7
16	6.1	300.1	-1.4

STOP TIME MAY 31, 1982 HOUR 15 MINUTE 20

STARTING TIME JUNE 3,1982 HOUR 18 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	10.3	74.0	-0.7
19	10.6	73.2	-0.9
20	10.5	71.3	-0.9
21	8.0	87.8	-0.3
22	5.6	133.1	0.5
23	3.1	276.0	0.8
24	3.1	275.7	1.3
1	3.3	271.3	1.5

STOP TIME JUNE 4,1982 HOUR 0 MINUTE 35

STARTING TIME JUNE 4,1982 HOUR 0 MINUTE 44

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
1	3.3	271.3	1.5
2	2.7	268.4	1.9
3	3.6	282.6	1.9
4	4.7	272.1	1.0
5	4.8	273.0	1.4
6	3.6	278.8	2.1
7	3.6	282.3	1.4
8	4.7	118.6	0.6
9	8.9	112.8	0.3
10	10.1	122.9	0.3
11	9.8	108.9	0.7
12	9.9	114.1	0.5
13	9.4	113.9	0.3
14	10.4	146.1	-0.1
15	10.7	143.8	-0.0
16	11.3	159.5	-0.9
17	10.7	153.4	-0.2
18	11.7	140.2	-0.2
19	11.3	139.4	-0.5
20	11.3	140.9	-0.5
21	9.5	138.1	0.2
22	9.7	136.3	0.8
23	10.5	129.6	1.1
24	10.8	131.9	1.5
1	10.3	151.1	0.8
2	10.2	154.3	0.4
3	10.8	140.8	0.5
4	11.3	137.7	1.1
5	11.3	132.2	1.1
6	10.2	139.6	0.4
7	11.2	121.2	0.4

8	11.1	125.0	-0.4
9	7.3	148.5	-0.8
10	6.8	155.2	-1.1
11	4.3	157.2	-1.1
12	4.2	147.4	-0.8
13	2.5	140.5	-0.7
14	1.2	140.9	-0.7
15	1.2	147.6	-1.0
16	1.3	144.4	-0.9
17	1.6	142.2	-0.9
18	3.1	154.8	-0.9
19	2.6	149.7	-0.9
20	2.8	149.7	-0.8
21	4.9	149.4	-0.8
22	3.9	150.2	-0.8
23	1.8	139.0	-0.8
24	5.2	146.3	-0.7
1	4.0	150.0	-0.7
2	5.0	150.6	-0.7
3	2.6	150.0	-0.7
4	1.9	149.1	-0.9
5	3.2	148.2	-0.7
6	2.0	156.3	-0.7
7	2.8	168.4	-0.7
8	2.8	168.9	-0.8
9	1.9	169.4	-0.9
10	1.1	173.6	-1.3
11	1.5	175.7	-1.5
12	2.1	169.9	-1.5
13	3.8	170.0	-1.6
14	2.9	193.5	-1.5
15	3.2	195.6	-1.5
16	6.4	221.5	-1.1
17	6.6	284.3	-1.3
18	5.8	287.7	-0.7
19	6.7	261.8	0.5
20	5.3	270.8	1.2
21	5.2	288.9	4.0
22	7.0	298.2	5.3
23	3.8	300.5	4.1
24	7.3	326.4	1.9
1	6.8	333.5	1.4
2	7.9	337.7	-0.2
3	7.9	333.4	-0.5
4	8.9	314.7	-0.7
5	5.9	311.3	-0.5
6	9.7	336.4	-0.1
7	9.5	333.7	-0.5
8	7.9	338.1	-1.0

STOP TIME JUNE 7, 1982 HOUR 7 MINUTE 15

RELEASE NUMBER 82024

CONTAINMENT PURGE

STARTING TIME

JUNE 10, 1982

HOUR 18 MINUTE 45

TIME HOUR	WS10 MPH	WC10 DEG	DT100 DEG C
18	9.8	234.4	-0.6
19	8.5	204.0	-0.3
20	10.7	194.5	0.9
21	8.2	200.5	1.8
22	8.2	201.8	1.8
23	8.6	210.0	2.1
24	8.2	216.1	2.6
1	7.9	214.1	2.4
2	8.0	219.3	2.1
3	8.5	217.5	2.8
4	3.7	76.8	1.3
5	5.3	120.6	1.6
6	4.6	127.7	0.9
7	5.9	118.4	1.2
8	5.8	134.1	0.2
9	6.0	163.7	-0.8
10	3.8	80.2	-0.3
11	4.7	47.4	0.9
12	5.6	147.5	1.1
13	8.6	90.5	1.2
14	9.3	169.3	-0.3
15	9.0	157.1	0.6
16	10.9	160.0	-0.7
17	9.2	168.5	-0.7
18	8.6	175.3	-0.9
19	8.1	188.3	-0.8
20	9.0	166.3	-0.6
21	10.2	154.5	-0.0
22	10.4	153.3	0.2
23	10.0	152.7	0.3
24	9.2	162.0	-0.1
1	10.0	163.4	-0.2
2	9.1	182.7	-0.2
3	9.0	183.5	-0.1
4	7.0	165.1	0.1
5	7.6	82.7	-0.4
6	5.5	144.9	0.3
7	4.9	166.9	-0.5
8	8.8	209.7	-0.8
9	6.6	214.9	-0.6
10	6.4	222.2	-0.3
11	8.5	220.6	-0.8
12	7.6	264.7	-0.1
13	7.2	140.4	-0.2
14	9.1	200.7	-0.4
15	9.6	201.3	-0.5
16	9.3	215.5	-0.9
17	8.3	207.7	-1.1
18	8.3	206.3	-1.0

19	7.9	243.1	-0.7
20	6.6	229.2	0.1
21	8.2	239.8	1.5
22	6.0	290.3	0.3
23	5.2	65.6	0.9
24	4.5	69.0	1.3
1	4.0	250.8	2.0
2	4.2	253.4	3.4
3	4.5	272.4	2.1
4	4.1	255.3	1.8
5	4.1	257.2	2.3
6	3.7	255.2	2.5
7	4.0	235.5	1.0
8	10.7	110.3	-0.2
9	11.1	114.8	-0.3
10	9.2	123.9	-0.4
11	10.6	142.2	-0.6
12	10.4	167.4	-1.1
13	10.4	155.3	-1.2
14	10.1	167.9	-1.2
15	7.3	170.5	-1.3
16	7.7	169.8	-1.2
17	8.0	190.2	-0.9
18	7.5	185.9	-1.0
19	9.6	178.7	-0.9
20	10.8	151.5	-0.2
21	10.5	141.4	0.5
22	10.9	141.1	0.6
23	10.2	152.6	0.5
24	9.8	153.9	0.4
1	10.8	153.3	0.2
2	10.4	154.0	-0.0
3	9.7	160.9	-0.3
4	9.4	152.1	-0.4
5	10.3	153.1	-0.5
6	10.2	157.7	-0.6
7	5.7	153.8	-0.8
8	6.5	154.8	-0.5

STOP TIME JUNE 14, 1982 HOUR 7 MINUTE 25

STARTING TIME JUNE 17, 1982 HOUR 17 MINUTE 3

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	3.4	155.4	0.3
18	4.3	91.5	1.8
19	3.2	108.1	1.3
20	2.3	139.9	0.5
21	1.6	26.9	1.3
22	1.5	45.0	1.9
23	2.2	142.6	2.1
24	7.1	128.7	0.1
1	4.4	98.0	0.0
2	4.0	328.9	-0.2
3	4.3	316.1	-0.7
4	2.9	318.3	-0.8
5	3.9	324.0	-0.7
6	3.9	325.9	-0.6
7	4.3	334.1	-0.5
8	6.2	323.3	-0.6
9	5.5	355.1	-0.7
10	5.1	4.6	-0.9
11	5.9	24.4	-0.8
12	4.0	41.5	-0.6
13	3.5	4.2	-0.3
14	5.2	320.7	-0.1
15	7.9	312.4	-0.7
16	5.4	321.7	-0.6
17	3.9	318.8	-0.1
18	3.4	293.6	-0.7
19	2.3	285.4	-0.5
20	6.7	309.3	-0.5
21	7.1	304.8	-0.2
22	3.5	296.2	0.5
23	3.1	294.7	0.8
24	3.5	299.2	1.0
1	3.4	280.1	0.9
2	2.1	272.5	0.8
3	3.0	265.1	0.0
4	1.9	258.8	0.6
5	2.1	243.1	0.2
6	2.1	254.1	0.1
7	1.9	284.1	-0.4
8	2.9	303.8	-0.4
9	3.1	302.0	-0.3
10	4.9	251.5	-1.1
11	6.2	249.5	-1.2
12	5.3	278.3	-0.7
13	5.3	264.6	-0.9

STOP TIME JUNE 19, 1982 HOUR 12 MINUTE 56

STARTING TIME JUNE 20, 1982 HOUR 4 MINUTE 35

TIME OUR	WS10 MPH	WD10 DEG	DT100 DEG C
4	4.7	302.6	0.9
5	2.4	275.4	1.4
6	2.5	297.5	1.3
7	2.9	295.1	0.2
8	5.2	303.6	-0.7
9	4.5	303.3	-0.6
10	5.1	284.9	-0.9
11	6.3	271.6	-1.2
12	7.9	294.5	-1.0
13	9.5	300.3	-0.8
14	9.9	301.1	-0.8
15	9.8	310.2	-0.7
16	10.3	313.7	-0.7
17	9.7	310.2	-0.7
18	8.9	314.2	-0.4
19	7.2	318.2	-0.4
20	4.1	311.6	-0.3
21	3.0	269.2	1.0
22	2.6	273.4	1.1
23	1.8	244.9	2.1
24	2.0	223.0	2.1
1	1.6	262.0	1.6
2	1.5	244.9	1.9
3	1.3	167.3	2.8
4	2.3	194.7	4.0
5	2.0	165.9	6.4
6	2.4	211.5	5.8
7	1.6	160.9	3.8

STOP TIME JUNE 21, 1982 HOUR 6 MINUTE 35

STARTING TIME

JUNE 24, 1982

HOUR 17 MINUTE 56

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	8.3	102.1	-1.2
18	8.5	109.5	-0.8
19	6.0	154.6	-0.5
20	6.0	228.4	-0.7
21	5.4	223.3	-0.6
22	7.4	226.3	-0.7
23	5.8	235.4	-0.7
24	5.3	234.5	-0.7
1	6.4	245.8	-0.9
2	8.1	252.6	-0.9
3	6.8	294.7	-0.9
4	7.2	254.1	-0.9
5	7.2	252.4	-0.9
6	6.7	240.6	-1.0
7	7.2	244.6	-1.0
8	6.9	244.4	-1.3
9	6.8	244.5	-1.4
10	7.2	237.1	-1.7
11	6.9	238.0	-1.8
12	6.4	272.3	-1.6
13	6.3	290.4	-1.7
14	6.4	306.1	-1.8
15	6.4	259.8	-1.6
16	6.9	231.5	-1.8
17	6.4	266.4	-1.6
18	6.3	351.9	-1.4
19	6.0	2.1	-1.1
20	5.6	3.7	-0.6
21	2.1	56.7	-0.0
22	1.9	169.0	0.9
23	2.8	182.5	0.9
24	1.9	177.4	1.0
1	3.5	183.7	1.4
2	2.2	174.5	1.6
3	2.9	195.4	1.6
4	2.3	184.6	1.6
5	2.9	198.9	1.2
6	2.8	193.2	0.5
7	2.7	202.1	-0.3
8	2.9	236.9	-1.0
9	3.7	306.5	-1.2
10	4.2	2.9	-1.4
11	6.9	25.8	-1.5
12	7.1	9.6	-1.5
13	6.6	3.7	-1.8
14	5.9	9.7	-1.8
15	5.2	25.5	-1.9
16	5.5	9.7	-1.7
17	5.0	2.1	-1.3

18	6.9	2.1	-1.1
19	5.5	320.2	-1.1
20	4.8	341.4	-0.9
21	3.2	286.2	-0.8
22	2.7	231.2	-0.6
23	2.9	247.7	-0.2
24	2.0	323.8	-0.3
1	2.1	4.5	0.1
2	1.7	258.3	0.1
3	2.0	252.9	-0.0
4	2.2	220.4	-0.1
5	3.1	211.1	0.5
6	3.4	213.8	0.3
7	4.2	220.5	-0.4
8	2.5	255.2	-1.1
9	3.9	276.9	-1.4
10	5.2	352.8	-1.4
11	6.3	355.1	-1.5
12	6.4	341.3	-1.7
13	7.2	325.2	-1.5
14	6.3	351.8	-1.5
15	6.0	314.2	-1.4
16	7.4	288.7	-1.5
17	7.0	290.2	-1.4
18	6.9	303.1	-1.2
19	6.8	305.6	-1.0
20	4.6	266.5	-0.5
21	2.9	246.3	0.1
22	3.1	72.9	0.6
23	2.1	194.4	1.4
24	1.7	113.5	1.9
1	2.1	201.6	3.0
2	2.1	213.2	2.8
3	2.7	204.7	2.2
4	2.8	204.7	2.1
5	1.9	204.0	2.5
6	2.0	189.9	2.1
7	2.1	202.8	1.3

STOP TIME JUNE 28, 1982 HOUR 6 MINUTE 10

RELEASE NUMBER 82001 DECAY TANK PURGE

STARTING TIME APR 27,1982 HOUR 13 MINUTE 50

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
13	10.5	115.0	-1.2
14	9.7	111.7	-1.3
15	9.0	135.6	-1.2
16	11.0	139.8	-1.2
17	10.3	139.3	-1.1
18	10.4	157.9	-1.0
19	8.7	156.7	-0.8
20	5.7	96.1	-0.7
21	4.6	117.2	-0.3
22	5.1	139.1	-0.3
23	5.8	121.4	-0.2
24	5.8	120.9	-0.4
1	7.7	114.4	-0.8
2	8.4	116.4	-0.7
3	7.8	109.9	-0.7
4	6.4	131.3	-0.3
5	12.6	121.5	-0.6
6	14.3	132.9	-0.7
7	11.1	135.5	-0.7
8	12.1	145.6	-0.9
9	11.8	116.0	-0.8

STOP TIME APR 28,1982 HOUR 8 MINUTE 13

STARTING TIME MAY 5, 1982 HOUR 12 MINUTE 50

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
12	9.5	344.0	-0.8
13	10.4	336.7	-0.7
14	11.8	348.9	-0.8
15	12.1	351.1	-0.8
16	11.8	359.3	-0.9
17	9.4	352.6	-0.7
18	10.7	353.7	-0.8
19	8.9	359.6	-0.8
20	6.8	11.9	-0.6
21	6.2	350.4	-0.7
22	5.1	2.4	-0.8
23	3.0	24.5	-0.6
24	3.8	340.9	-0.6
1	5.1	328.3	-0.5
2	4.2	332.4	-0.6
3	5.6	323.2	-0.3
4	7.1	327.2	-0.2
5	7.3	343.8	-0.1
6	6.3	0.0	-0.1
7	8.9	6.3	-0.2

STOP TIME MAY 6, 1982 HOUR 6 MINUTE 18

STARTING TIME JUNE 15, 1982 HOUR 16 MINUTE 57

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	10.0	325.3	-0.7
17	8.0	328.7	-0.7
18	7.6	324.6	-0.6
19	8.7	324.8	-0.6
20	9.4	324.6	-0.5
21	8.5	315.8	0.0
22	6.2	271.6	0.6
23	9.4	281.2	1.7
24	10.1	283.3	3.1
1	7.7	277.1	3.5
2	4.0	170.0	2.3
3	5.6	247.3	1.4
4	7.6	283.3	2.0
5	7.5	274.6	2.1
6	5.2	226.4	2.1
7	7.9	293.7	1.5
8	7.8	301.2	0.1
9	6.2	316.7	0.3
10	4.4	356.7	0.4
11	4.9	12.3	0.6
12	6.1	224.4	0.0

STOP TIME JUNE 16, 1982 HOUR 11 MINUTE 57

STARTING TIME JUNE 19, 1982 HOUR 16 MINUTE 1

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	5.4	272.4	-0.9
17	8.9	219.4	-1.1
18	8.8	231.9	-1.0
19	7.1	219.1	-0.5
20	5.8	197.1	0.5
21	7.5	183.3	1.9
22	9.3	180.9	2.7
23	10.2	185.5	2.6
24	11.3	191.5	2.3
1	13.2	213.1	1.6
2	7.7	234.7	1.8
3	3.4	256.5	2.1
4	4.7	302.6	0.9
5	2.4	275.4	1.4

STOP TIME JUNE 20, 1982 HOUR 4 MINUTE 20

PART 2
SECTION V

ENVIRONMENTAL MONITORING
TECHNICAL SPECIFICATION (5.9.4.b)

January 1, 1982 to June 30, 1982

5.9.4.b Environmental Monitoring

1. (a) The number of sampling locations, sample collection and frequency, and the number of samples collected
(b) during this six-month period for each class of sample is given in Table 1.

(c) During the semi-annual period of January to June 1982, levels of radiation were not found to be significantly above local background at any sample location.

(d) Table 5 contains a complete summary of program findings. For each type of analysis of each sampled medium, this table reflects all indicator locations, all control locations, and the location with the highest six-month mean result.
2. The levels of radioactivity exhibited in the environmental radiological monitoring program do not indicate the likelihood of public intakes in excess of one percent of those that would result from continuous exposure to the concentration values listed in Table II of Appendix B of 10 CFR 20.
3. There existed no statistically significant off-site environmental concentration attributable to plant activity.

Sample Collection Program

Table 1

<u>Sample Class</u>	<u>Collection Frequency</u>	<u>Sample Locations</u>	<u>Number of Samples Collected This Period</u>
Air Particulates	Weekly	Five (5)	124
Airborne Iodine	Weekly	Five (5)	124
Background Radiation (TLD)	Quarterly	Eleven (11) Four (4)	21 8
Background Radiation (G-M Survey)	Quarterly	Fifteen (15)	30
Fresh Milk	Weekly Quarterly	Four (4) Four (4)	52 8
Preserved Milk	Quarterly Comp.	Four (4)	8
Surface Water	Monthly	Five (5)	30
Well Water	Quarterly Comp.	Four (4)	8
Precipitation	Monthly Comp. Quarterly Comp.	One (1) One (1)	3 1
Cattle feed	Quarterly	Six (6)	12
Vegetation	Annually	Six (6)	0
Soil	Annually	Four (4)	0
Mud and Silt	Annually	Three (3)	0
Wildlife	Annually	One (1)	0
Fish	Annually	Three (3)	0

OMAHA PUBLIC POWER DISTRICT
Fort Calhoun Nuclear Power Station

SAMPLING LOCATIONS

Table 2

Station Code	Site Description	Site Azimuth and Degrees*
0-1a	On site, 1000' NW of Reactor	0.2 mi. @ 294°
0-1b	On site crop fields	0.4 mi. @ 225-285° or 150-180°
0-2	Substation at S. 16th St. in Blair, NE	3.1 mi. @ 286°
0-3	Ft. Calhoun Fire Station	4.8 mi. @ 149°
0-4	Electric Building at 17th and Harney, Omaha, NE	22 mi. @ 152°
0-5	On site at Oxigester	0.1 mi. @ 74°
0-6	0.5 miles downstream from Reactor Containment Bldg. on west bank of Missouri R.	0.5 mi. @ 106°
0-7	125' upstream from site intake structure on west bank of Missouri R.	0.1 mi. @ 345°
0-8a	Fence surrounding intake gate control valve, DeSoto Nat'l Wildlife Refuge	2.0 mi. @ 101°
0-8b	DeSoto Bend Lake, at boat dock ramp, DeSoto Nat'l Wildlife Refuge	3.7 mi. @ 118°
0-8c	Headquarters Bldg., DeSoto Nat'l Wildlife Refuge	3.1 mi. @ 53°
0-8d	Crop fields within or near DeSoto Nat'l Wildlife Refuge	2.4 mi. @ 64-74°
0-9	Metro Utilities District Chem. Lab for Florence Plant, N. Omaha, NE (downstream of site)	17 mi. @ 156°
0-10	Council Bluffs Municipal Water Works Intake, Council Bluffs, IA (downstream of site)	22 mi. @ 145°
0-11	1 mile NW of site entrance on Hwy. 73 (entrance Christ Child Camp)	0.9 mi. @ 248°
0-12	Rhon weather station; North site boundary	0.5 mi. @ 304°
0-13	Entrance to plant site from Hwy. 73	0.5 mi. @ 206°
0-14	Mechanical weather station, 1000' SE Reactor	0.1 mi. @ 113°
0-15	Bridge on Hwy. 73 at north edge of DeSoto, NE	1.6 mi. @ 144°
0-16	Smith Farm	1.9 mi. @ 133°
0-17	Dana College, Blair, NE	4.3 mi. @ 295°

* Distance and direction are specified relative to Reactor Containment Building.

SAMPLING LOCATIONS

Table 2 (continued)

<u>Station Code</u>	<u>Site Description</u>	<u>Site Azimuth and Degrees*</u>
0-18	Bridge on Hwy. 30 east of Blair, NE of Missouri R.	2.2 mi. @ 334°
0-19	J. Rand Farm	1.9 mi. @ 15°
0-20	S. Rand Farm	1.9 mi. @ 31°
0-21	B. Jones Farm	1.0 mi. @ 155°
0-22	G. Sawall/Schideler Farm	1.1 mi. @ 204°
0-23	C. Jensen	2.1 mi. @ 250°
0-24	M. Hansen/Suverkrubbe Farm	1.2 mi. @ 277°
0-25	Blair Sr. High School, Blair, NE	3.0 mi. @ 308°
0-26	Japp Dairy	6.3 mi. @ 219°
0-27	Flynn Dairy	3.4 mi. @ 310°
0-29	75' downstream of lagoon discharge on west bank of Missouri R.	0.1 mi. @ 81°
0-30	Agrico Ammonia Plant, on Hwy. 30 1 mile east of Blair, NE	1.8 mi. @ 325°
0-31	L. Rogge Farm	2.1 mi. @ 278°
0-32	Sorenson Farm	3.7 mi. @ 328°
0-33	Farm north of Plant	2.6 mi. @ 283°
0-34	C. Marr and Sons field (Karras Farm)	4.3 mi. @ 147°
0-35	Garden SE of Blair, NE	2.8 mi. @ 285°
0-36	Farm near DeSoto vegetable stand 1 mile SE of Plant on Hwy. 73	1.0 mi. @ 153°
0-42	Miller Farm	0.8 mi. @ 206°
0-43	Fish sampling area: Missouri River	Upstream and Downstream of plant site
0-44	Mohr Farm	7.9 mi. @ 187°

* Distance and direction are specified relative to Reactor Containment Building.

OMAHA PUBLIC POWER DISTRICT
Fort Calhoun Nuclear Power Station

SAMPLE COLLECTION AND ANALYSIS PROGRAM

Table 3

<u>Sample Type</u>	<u>Collection Type and Frequency^a</u>	<u>Analysis Type and Frequency^b</u>	<u>Number of Sites and Sample Code</u>	<u>Location Code^c</u>	<u>Site Type Control/Indicator</u>
Background Radiation (TLD)	C/Q	Gamma Dose	11: OFA	0-11	I
			OFB	0-8a	I
			OFC	0-12	I
			OFD	0-13	I
			OFE	0-14	I
			OFF	0-1a	I
			OFG	0-15	I
			OFH	0-2	I
			OFI	0-16	C
			OFJ	0-6	I
			OFK	0-4	C
			4 ^d : Control	-	-
			I-Hot Lab	-	-
			13	-	-
Env. Lab	-	-			
G-M Survey	G/Q	Beta-Gamma	15: A	0-11	I
			B	0-17	I
			C	0-18	I
			D	0-1a	I
			E	0-3	I
			F	0-8a	I
			G	0-19	I
			H	0-20	I
			I	0-21	I
			J	0-16	I
			K	0-22	I
			L	0-23	I
			M	0-24	I
			N	0-25	I
P	0-4	C			
Airborne Particulates	C/W	Gross Beta ^e	5: OAA	0-1a	I
			OAB	0-2	I
			OAC	0-3	I
			OAD	0-4	C
			OAE	0-5	I
Airborne Iodine	C/W	I-131	5: Same as Air Particulates		
Well Water	G/M	Gross Beta (QC) ^f Tritium(QC)	4: OWW-A	0-8c	I
			OWW-E	0-16	I
			OWW-F	0-22	I
			OWW-I	0-27	I

SAMPLE COLLECTION AND ANALYSIS PROGRAM

Table 3 (continued)

<u>Sample Type</u>	<u>Collection Type and Frequency^a</u>	<u>Analysis Type (and Frequency)^b</u>	<u>Number of Sites and Sample Code</u>	<u>Location Code^c</u>	<u>Site Type Control/Indicator</u>
Precipitation	C/M	Gross Beta ^f (2nd & 3rd qtrs.)	1: OPA	0-30	I
	C/Q	Gross Beta ^f (QC) (1st & 4th qtrs.)			
Milk - Fresh (pasture season only)	G/W	I-131	4: OFM-A	0-26	C
			OFM-B	0-27	I
			OFM-D	0-42	I
	G/Q	Gamma Spec.	OFM-E	0-44	C
Milk - Preserved	G/W	Gross Beta(QC) Sr-90(QC)	4: Same as for Fresh Milk		
Vegetation	G/A	Gamma Spec. Sr-90	6: OVA	0-33	I
			OVB	0-34	I
			OVC	0-35	I
			OVD	0-36	I
			OVE	0-8d	I
			OVG	0-1b	I
Cattle Feed Beef	G/Q	Gamma Spec. Sr-90	2: OCA	0-31	I
			OCB	0-32	I
Cattle Feed Dairy	G/Q	Gamma Spec. Sr-90	4: DFV-1	0-26	C
			DFV-2	0-27	I
			DFV-3	0-42	C
			DFV-4	0-44	I
Soil	G/A	Gamma Spec. Sr-90	4: ODA	0-26	C
			ODB	0-27	I
			ODC	0-44	C
			ODD	0-42	I
Surface Water	G/W	Gross Beta(MC) Tritium(MC) §	5: OSW-A	0-6	I
			OSW-B	0-9	I
			OSW-C	0-10	I
			OSW-D	0-8b	I
			OSW-E	0-7	C
Fish	G/A	Gamma Spec. Sr-90	1: OMA	0-43	I
Mud and Silt	A	Gamma Spec. Sr-90	2: OSB	0-29	I
			OSD	0-7	C

SAMPLE COLLECTION AND ANALYSIS PROGRAM

Table 3 (continued)

<u>Sample Type</u>	<u>Collection Type and Frequency^a</u>	<u>Analysis Type (and Frequency)^b</u>	<u>Number of Sites and Sample Code</u>	<u>Location Code^c</u>	<u>Site Type Control/Indicator</u>
Wildlife	A	Gamma Spec. on flesh Sr-90 on bone	1: ORA	-	I

^a Collection type is coded as follows: C/ = continuous; G/ = grab. Collection frequency is coded as follows: W = weekly; M = monthly; Q = quarterly; A = annually.

^b Analysis frequency is coded as follows: MC = monthly composite; QC = quarterly composite. Analysis frequency is indicated only if it is different from collection frequency.

^c Location codes are defined in Table 2.

^d Additional collection or analysis not required by the technical specifications.

^e Gamma Spectrometry of air particulates required if gross beta exceeds 30 pCi/l.

^f Tritium, Sr-90, and gamma spectrometry required of well water or precipitation if gross beta exceeds 30 pCi/l.

^g Sr-90 and gamma spectrometry analyses required of surface water if gross beta exceeds 60 pCi/l.

OMAHA PUBLIC POWER DISTRICT
Fort Calhoun Nuclear Power Station

TECHNICAL SPECIFICATION SENSITIVITY REQUIREMENTS

Table 4

Sample	Units	Gross Beta	Sr-90	H-3	Gamma Scan	
					I-131	Cs-137
Waters: Surface Well Precipitation	pCi/l	0.5	1.0	2000***	2.0*	2.0
Mud and Silt, Soil	pCi/g(dry)	0.4*	0.008	---	---	0.1
Fish	pCi/g(wet)	0.1*	0.02	---	---	0.035
Milk	pCi/l	6.0	1.0	---	0.5	2.0
Vegetation, Cattle Feed	pCi/g(wet)	0.15	0.03	10*	---	0.2
Air	pCi/m ³	0.02	---	---	0.2	0.01
Wildlife	**pCi/g(wet)	---	3.0	---	5.0	---
Film/or TLD	0.1 mrem/week above background					

* Analyses not required in present program.

** Rabbit: Strontium-90 = pCi/g calcium in femur
Iodine-131 = pCi/g of thyroid

*** OPPD requires 200 pCi/liter to allow better resolution of background activity that normally occurs within a range of 200 pCi/l to 2000 pCi/l.

Environmental Radiological Monitoring Program

Name of Facility: Fort Calhoun Nuclear Station Unit No. 1 Docket Number: 50-285Location of Facility: Washington Nebraska Reporting Period: January - June 1982
County State

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (Range)	Location with Highest Mean		Control Locations Mean (Range)	Number Non-Routine Reported Measurements
				Name, Distance and Direction	Mean (Range)		
Air Particulates (pCi/m ³)	Gross β 124	0.02	0.04 (99/99) 0.01-0.11	Blair Substation 3.1 mi @ 286 ^o	0.05 0.02-0.11	0.04 (25/25) 0.01-0.08	0
	γ Spec. 30	0.01	All LLD	Not Applicable		All LLD	0
Airborne Iodine (pCi/m ³)	I-131 124	0.2	All LLD	Not Applicable		All LLD	0
Background Radiation TLD (mR/week)	γ Dose 21	0.1	1.7 (18/18) 1.3-2.3	Entrance Hwy 73 0.5 mi @ 206 ^o	1.95	1.8 (3/3)	0
					1.6-2.3	1.6-1.9	
Background Radia- tion G-M Survey (mR/hour)	Beta- Gamma 30	0.05	All LLD	Not Applicable		All LLD	0
Fresh Milk (pCi/l)	I-131 52	0.5	All LLD	Not Applicable		All LLD	0
	Cs-137 8	2.0	2.5 (2/2) 2.0-3.0	Flynn Dairy 3.4 mi @ 310 ^o	3.0 3.0	All LLD	0
	Other γ 8	2.0	All LLD	Not Applicable		All LLD	0
Preserved Milk (pCi/l)	Gross β 8	6.0	1925 (4/4) 1400-3200	Miller Farm 0.8 mi @ 206 ^o	2350 1500-3200	2175 (4/4) 1100-3200	0
	Sr-90 8	1.0	Unavailable	To be reported in semi-annual report July - December 1982			0

Table 5 (Continued)

Facility: Fort Calhoun Nuclear Station Unit No. 1

Sheet 2 of 2

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (Range)	Location with Highest Mean		Control Locations Mean (Range)	Number Non-Routine Reported Measurements
				Name, Distance and Direction	Mean (Range)		
Surface Water (nCi/l)	Gross β 30	0.5	9.2 (24/24) 1.9-17.7	Met Utilities 22 mi @ 145 ^o	10.6 5.6-17.7	8.3 (6/6) 6.1-9.9	0
	Tritium 30	200	235 (24/24) 200-600	2000' Downstream 0.4 mi @ 106 ^o	295 200-600	258 (6/6) 100-400	0
Well Water (pCi/l)	Gross β 8	0.5	10.2 (8/8) 4.4-21.5	DeSoto Wildlife Refuge 3.7 mi @ 118 ^o	20.3 19.0-21.5	Not Measured	0
	Tritium 8	200	238 (8/8) 200-300	DeSoto Wildlife Refuge 3.7 mi @ 118 ^o	300 300	Not Measured	0
Cattle Feed (pCi/g wet)	γ Spec. 12	0.2	All LLD	Not Applicable		All LLD	0
	Sr-90 12	0.03	Unavailable To be reported in semi-annual report July - December 1982			All LLD	0
Precipitation (pCi/l)	Gross β 4	0.5	6.2 (4/4) 0.6-17.0	Agrico Ammonia Plant 1.8 mi @ 325 ^o	6.2 0.6-17.0	Not Measured	0

PART 2
SECTION VI

POTENTIAL DOSES TO INDIVIDUALS AND POPULATIONS
(As Required by Regulatory Guide 1.21, Safety Guide 23)

January 1, 1982 to June 30, 1982

VI. POTENTIAL DOSES TO INDIVIDUALS AND POPULATIONS

A. Potential Semiannual Doses to Individuals from Gaseous Releases.

Total body, skin and organ doses from ground releases were calculated in millirem (mrem) to an average adult, teenager, child and infant using the annual configuration of GASPAR program. Results to each receptor are shown in Tables VI-A-1 through VI-A-16. Also, the doses to the same groups in units of millirads (mrad), due to gamma and beta radiation carried by air, were computed using GASPAR. In its annual configuration, GASPAR assumes that all release rates are entered in curies per year (Ci/yr). If the total curies released per isotope during the semiannual period are assumed released for an annual period (Ci/yr), this release rate reduction is conveniently offset by the annual usage or dose factors, thereby allowing GASPAR to calculate semiannual doses.

The inputs to GASPAR for the semiannual period from January through June of 1982 were as follows:

- (1) All gaseous effluents were as described in Section I. The totals in curies of I-133 and I-135 include all actual and estimated activities. In most cases, I-133 and I-135 activities were estimated, if there was no measurable activity in a release, by exponentially back-calculating to a

mid-week activity using the maximum instrument sensitivity (minimum detectable activity).

(2) Entrained gases (Xe-133 and Xe-135) from liquid effluents were as described in Section II.

(3) Semiannual "X/Q's" at the actual receptor locations, which were corrected for open terrain, plume depletion, and radioactive decay factors were calculated according to Regulatory Guide 1.111. Also included were semiannual deposition rates corrected for the open terrain factor.

(4) The production, intake and grazing fractions were as follows: 1.0 for fresh leafy vegetation grown locally, 0.5 for the pasture grazing season, 0.76 for vegetation intake grown in gardens, 1 for daily intake of animals while on pasture and 8 g/m³ for the air water concentration.

(5) All dose factors, transport times from receptor to individual, and usage factors were defined by Regulatory Guide 1.109 in GASPAR.

(6) Site specific information, within a five mile radius of the plant, on types of receptors located in each sector was used. That is, if a cow was not present in a sector, then the milk pathway for that sector was not considered. If it was present, then its actual sector distance was used.

These inputs introduce a most conservative approach for the following reasons:

(1) The open terrain and deposition corrections increase semiannual "X/Q's" by a factor ranging between 1.0 and 4.0.

(2) The production, intake and grazing fractions, as defined in the input definition statement, represent an environmental area in an extremely conservative manner.

(3) In the majority of the releases, I-133 and I-135 were back-calculated even though there was no measurable activity.

B. Potential Semiannual Doses to Population from Gaseous Releases.

The GASPAR program in its annual configuration was also used to calculate the ALARA integrated population dose summary for the total body, skin and organ doses in manrems for all individuals within a 50-mile radius population. Results are shown in Table VI-B-1. The population-integrated dose is the summation of the dose received by all individuals and has units of man-thyroid-rem when applied to the summation of thyroid doses. The same inputs were used as in the individual case with the addition of the following:

(1) A total population of 836,172, based on a 1980 conservative estimate, was used to define the sector segments within the 50-mile radius of the plant.

(1) Total productions for milk, meat and vegetation were based on 1973 annual data for Nebraska as recommended by the NRC for use in GASPAR.

C. Potential Semiannual Doses to Individuals from Liquid Releases.

Total body, skin and organ mrem doses for liquid releases were calculated for all significant liquid pathways using the annual configuration of the LADTAP program. Results are shown in Tables VI-C-1 through VI-C-11.

The inputs to LADTAP for the semiannual period from January through June 1982 were as follows:

(1) All liquid effluents were as described in Section I, except for the entrained gases (Xe-133 and Xe-135).

(2) A plant discharge rate of 802 cubic feet per second (CFS) was used.

(3) Dilution factors (inverse of the mixing ratios) were computed based on Regulatory Guide 1.113 (equation 7 in Section 2.a.1 of Appendix A) for a one-dimensional transport model.

(4) A drinking water transport time of 6.6 hours to the Omaha intake and 7.0 hours to the Council Bluffs intake for the ALARA doses in Tables VI-C-1 through VI-C-7 was used. For

Tables VI-C-8 through VI-C-11, a transport time of 0.0 was used from the plant to the discharge from the site.

(5) A shorewidth factor of .2 was used.

(6) All consumption rates, usage rates, and transport times from receptor to individual were as defined by Regulatory Guide 1.109 in LADTAP.

The discharge site in Tables VI-C-8 through VI-C-11 was chosen to present a most conservative estimate of mrem dose for an average adult, teenager, child and infant. A conservative approach is also presented by the assumption that Omaha and Council Bluffs receive all drinking water from the Missouri River.

D. Potential Semiannual Doses to Population from Liquid Releases.

The LADTAP program in its annual configuration was also used to calculate the total body and organ doses for the population of 836,172 within a 50-mile radius of the plant. Results are shown in Tables VI-D-1 through VI-D-6. The same input were used as in the individual cases with the addition of the following:

(1) Dilution factors and transport times for the pathways of sportfish, commercial fish, recreation and biota were calculated based on a distance of two miles downstream as approximately

the distance to the nearest recreational facility - Desoto National Wildlife Refuge.

(2) The total fish harvest for both sport and commercial purposes was calculated using an average commercial fish catch for Nebraska.

E. Direct Radiation Doses to Individuals and Population.

Direct radiation doses, attributable to the gamma radiation emitted from the containment structure, were not observed above local background at any TLD and Geiger-Mueller sample locations for this semiannual period.

Details of this sample system are given in Section V, Environmental Monitoring.

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 1 RES
 AT 4.58 MILES N

SEMI-ANNUAL BETA AIR DOSE = 4.31E-04 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 2.15E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.33E-04	1.33E-04	1.33E-04	1.33E-04	1.33E-04	1.33E-04	1.37E-04	3.21E-04
GROUND	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.39E-06
INHAL								
ADULT	1.64E-05	1.64E-05	4.79E-08	1.64E-05	1.64E-05	3.35E-05	1.64E-05	1.63E-05
TEEN	1.65E-05	1.65E-05	6.71E-08	1.65E-05	1.66E-05	3.75E-05	1.65E-05	1.65E-05
CHILD	1.46E-05	1.46E-05	9.07E-08	1.46E-05	1.47E-05	3.80E-05	1.46E-05	1.45E-05
INFANT	8.40E-06	8.37E-06	6.81E-08	8.45E-06	8.45E-06	2.98E-05	8.42E-06	8.37E-06

VI-8

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 13 BEEF
 AT 1.79 MILES N

SEMI-ANNUAL BETA AIR DOSE = 2.98E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.44E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.82E-04	8.82E-04	8.82E-04	8.82E-04	8.82E-04	8.82E-04	9.11E-04	2.17E-03
MEAT								
ADULT	3.08E-05	2.99E-05	1.01E-06	3.13E-05	3.08E-05	1.69E-04	2.98E-05	2.97E-05
TEEN	1.83E-05	1.78E-05	8.31E-07	1.90E-05	1.86E-05	1.18E-04	1.78E-05	1.77E-05
CHILD	2.19E-05	2.15E-05	1.52E-06	2.30E-05	2.25E-05	1.73E-04	2.15E-05	2.14E-05

TABLE VI-A-1

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 2 BEEF, VEG, PES
 AT 1.91 MILES NNE

SEMI-ANNUAL BETA AIR DOSE = 2.62E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.44E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.99E-04	8.99E-04	8.99E-04	8.99E-04	8.99E-04	8.99E-04	9.23E-04	2.09E-03
GROUND	6.93E-06	6.93E-06	6.93E-06	6.93E-06	6.93E-06	6.93E-06	6.93E-06	8.10E-06
VEGET								
ADULT	1.81E-04	1.75E-04	5.99E-06	1.84E-04	1.80E-04	9.13E-04	1.75E-04	1.74E-04
TEEN	2.05E-04	2.00E-04	8.36E-06	2.13E-04	2.07E-04	8.12E-04	2.01E-04	1.99E-04
CHILD	3.14E-04	3.09E-04	1.87E-05	3.30E-04	3.19E-04	1.24E-03	3.11E-04	3.09E-04
MEAT								
ADULT	2.57E-05	2.52E-05	6.54E-07	2.61E-05	2.57E-05	1.15E-04	2.51E-05	2.50E-05
TEEN	1.53E-05	1.50E-05	5.17E-07	1.58E-05	1.55E-05	8.02E-05	1.50E-05	1.49E-05
CHILD	1.83E-05	1.81E-05	9.82E-07	1.91E-05	1.88E-05	1.17E-04	1.81E-05	1.80E-05
INHAL								
ADULT	9.67E-05	9.66E-05	3.00E-07	9.69E-05	9.70E-05	2.02E-04	9.67E-05	9.65E-05
TEEN	9.74E-05	9.72E-05	4.20E-07	9.77E-05	9.79E-05	2.27E-04	9.75E-05	9.71E-05
CHILD	8.61E-05	8.59E-05	5.68E-07	8.64E-05	8.66E-05	2.31E-04	8.62E-05	8.58E-05
INFANT	4.95E-05	4.94E-05	4.26E-07	4.99E-05	4.99E-05	1.82E-04	4.97E-05	4.94E-05

6-IV

TABLE VI-A-2

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 3 VEG.RES
 AT 1.52 MILES NE

SEMI-ANNUAL BETA AIR DOSE = 3.46E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.91E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.19E-03	1.22E-03	2.76E-03
GROUND	8.66E-06	8.66E-06	8.66E-06	8.66E-06	8.66E-06	8.66E-06	8.66E-06	1.01E-05
VEGET								
ADULT	2.39E-04	2.31E-04	7.49E-06	2.42E-04	2.38E-04	1.15E-03	2.31E-04	2.30E-04
TEEN	2.71E-04	2.65E-04	1.04E-05	2.80E-04	2.73E-04	1.03E-03	2.65E-04	2.64E-04
CHILD	4.14E-04	4.09E-04	2.34E-05	4.35E-04	4.21E-04	1.57E-03	4.11E-04	4.08E-04
INHAL								
ADULT	1.28E-04	1.28E-04	4.05E-07	1.28E-04	1.28E-04	2.70E-04	1.28E-04	1.28E-04
TEEN	1.29E-04	1.28E-04	5.67E-07	1.29E-04	1.29E-04	3.03E-04	1.29E-04	1.28E-04
CHILD	1.14E-04	1.14E-04	7.66E-07	1.14E-04	1.14E-04	3.08E-04	1.14E-04	1.13E-04
INFANT	6.55E-05	6.53E-05	5.74E-07	6.59E-05	6.59E-05	2.43E-04	6.57E-05	6.53E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 4 VEG,RES
 AT 4.75 MILES ENE

SEMI-ANNUAL BETA AIR DOSE = 3.90E-04 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.78E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.08E-04	1.08E-04	1.08E-04	1.08E-04	1.08E-04	1.08E-04	1.12E-04	2.74E-04
GROUND	5.81E-07	5.81E-07	5.81E-07	5.81E-07	5.81E-07	5.81E-07	5.81E-07	6.79E-07
VEGET								
ADULT	2.80E-05	2.75E-05	5.01E-07	2.82E-05	2.80E-05	8.90E-05	2.75E-05	2.74E-05
TEEN	3.19E-05	3.15E-05	7.00E-07	3.25E-05	3.20E-05	8.25E-05	3.15E-05	3.14E-05
CHILD	4.91E-05	4.87E-05	1.57E-06	5.04E-05	4.95E-05	1.26E-04	4.88E-05	4.87E-05
INHAL								
ADULT	1.52E-05	1.52E-05	4.42E-08	1.53E-05	1.53E-05	3.10E-05	1.52E-05	1.52E-05
TEEN	1.53E-05	1.53E-05	6.20E-08	1.54E-05	1.54E-05	3.47E-05	1.54E-05	1.53E-05
CHILD	1.36E-05	1.35E-05	8.38E-08	1.36E-05	1.36E-05	3.51E-05	1.36E-05	1.35E-05
INFANT	7.81E-06	7.78E-06	6.29E-08	7.85E-06	7.85E-06	2.75E-05	7.83E-06	7.78E-06

VI-11

TABLE VI-A-4

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 5 RES
 AT 4.68 MILES E

SEMI-ANNUAL BETA AIR DOSE = 6.65E-04 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 3.67E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.28E-04	2.28E-04	2.28E-04	2.28E-04	2.28E-04	2.28E-04	2.35E-04	5.31E-04
GROUND	9.53E-07	9.53E-07	9.53E-07	9.53E-07	9.53E-07	9.53E-07	9.53E-07	1.11E-06
INHAL								
ADULT	2.46E-05	2.45E-05	7.10E-08	2.46E-05	2.47E-05	5.00E-05	2.46E-05	2.45E-05
TEEN	2.47E-05	2.47E-05	9.95E-08	2.48E-05	2.49E-05	5.60E-05	2.48E-05	2.47E-05
CHILD	2.19E-05	2.18E-05	1.35E-07	2.20E-05	2.20E-05	5.67E-05	2.19E-05	2.18E-05
INFANT	1.26E-05	1.26E-05	1.01E-07	1.27E-05	1.27E-05	4.44E-05	1.26E-05	1.25E-05

VI-12

TABLE VI-A-5

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 6 VEG RES
 AT 4.20 MILES ESE

SEMI-ANNUAL BETA AIR DOSE = 9.32E-04 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 5.14E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.20E-04	3.20E-04	3.20E-04	3.20E-04	3.20E-04	3.20E-04	3.28E-04	7.44E-04
GROUND	1.73E-06	1.73E-06	1.73E-06	1.73E-06	1.73E-06	1.73E-06	1.73E-06	2.03E-06
VEGET								
ADULT	6.36E-05	6.22E-05	1.50E-06	6.44E-05	6.35E-05	2.47E-04	6.22E-05	6.20E-05
TEEN	7.24E-05	7.11E-05	2.09E-06	7.43E-05	7.28E-05	2.24E-04	7.13E-05	7.09E-05
CHILD	1.11E-04	1.10E-04	4.07E-06	1.15E-04	1.13E-04	3.42E-04	1.10E-04	1.10E-04
INHAL								
ADULT	3.44E-05	3.44E-05	1.02E-07	3.45E-05	3.45E-05	7.06E-05	3.44E-05	3.43E-05
TEEN	3.46E-05	3.46E-05	1.42E-07	3.47E-05	3.48E-05	7.91E-05	3.47E-05	3.45E-05
CHILD	3.06E-05	3.06E-05	1.62E-07	3.07E-05	3.08E-05	8.01E-05	3.07E-05	3.06E-05
INFANT	1.76E-05	1.76E-05	1.44E-07	1.77E-05	1.77E-05	6.29E-05	1.77E-05	1.76E-05

VI-13

TABLE VI-A-6

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 7 VEG.RES
 AT 1.66 MILES SE

SEMI-ANNUAL BETA AIR DOSE = 5.77E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 3.18E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	2.03E-03	4.60E-03
GROUND	1.59E-05	1.59E-05	1.59E-05	1.59E-05	1.59E-05	1.59E-05	1.59E-05	1.86E-05
VEGET								
ADULT	3.99E-04	3.86E-04	1.37E-05	4.06E-04	3.98E-04	2.08E-03	3.85E-04	3.84E-04
TEEN	4.52E-04	4.41E-04	1.92E-05	4.70E-04	4.56E-04	1.84E-03	4.42E-04	4.39E-04
CHILD	6.91E-04	6.81E-04	4.28E-05	7.29E-04	7.04E-04	2.81E-03	6.85E-04	6.80E-04
INFANT								
ADULT	2.13E-04	2.13E-04	6.69E-07	2.13E-04	2.14E-04	4.48E-04	2.13E-04	2.13E-04
TEEN	2.15E-04	2.14E-04	9.36E-07	2.15E-04	2.16E-04	5.03E-04	2.15E-04	2.14E-04
CHILD	1.90E-04	1.89E-04	1.27E-06	1.90E-04	1.91E-04	5.11E-04	1.90E-04	1.89E-04
INFANT	1.09E-04	1.09E-04	9.48E-07	1.10E-04	1.10E-04	4.03E-04	1.10E-04	1.09E-04

VI-14

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 8 PORK
 AT 1.97 MILES SE

SEMI-ANNUAL BETA AIR DOSE = 3.86E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.91E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.21E-03	2.87E-03
MEAT								
ADULT	3.92E-05	3.84E-05	9.43E-07	3.97E-05	3.93E-05	1.73E-04	3.83E-05	3.82E-05
TEEN	2.33E-05	2.29E-05	8.08E-07	2.40E-05	2.36E-05	1.21E-04	2.29E-05	2.28E-05
CHILD	2.80E-05	2.76E-05	1.48E-06	2.91E-05	2.86E-05	1.75E-04	2.76E-05	2.75E-05

TABLE VI-A-7

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 9 VEG-RES
 AT 0.90 MILES SSE

SEMI-ANNUAL BETA AIR DOSE = 1.73E-02 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 9.54E-03 MILLRADS

PATHWAY	T. BODY	GI-TRACT	ROME	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.94E-03	5.94E-03	5.94E-03	5.94E-03	5.94E-03	5.94E-03	6.10E-03	1.38E-02
GROUND	6.93E-05	6.93E-05	6.93E-05	6.93E-05	6.93E-05	6.93E-05	6.93E-05	8.10E-05
VEGET								
ADULT	1.22E-03	1.16E-03	5.99E-05	1.25E-03	1.21E-03	8.54E-03	1.16E-03	1.15E-03
TEEN	1.37E-03	1.33E-03	8.36E-05	1.45E-03	1.39E-03	7.45E-03	1.33E-03	1.32E-03
CHILD	2.09E-03	2.05E-03	1.87E-04	2.25E-03	2.15E-03	1.13E-02	2.06E-03	2.04E-03
INHAL								
ADULT	6.39E-04	6.38E-04	2.08E-06	6.41E-04	6.42E-04	1.36E-03	6.40E-04	6.38E-04
TEEN	6.44E-04	6.42E-04	2.91E-06	6.46E-04	6.47E-04	1.53E-03	6.45E-04	6.42E-04
CHILD	5.69E-04	5.68E-04	3.93E-06	5.71E-04	5.73E-04	1.56E-03	5.70E-04	5.67E-04
INFANT	3.28E-04	3.26E-04	2.94E-06	3.30E-04	3.30E-04	1.23E-03	3.29E-04	3.26E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 10 PORK
 AT 1.11 MILES SSE

SEMI-ANNUAL BETA AIR DOSE = 1.02E-02 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 5.63E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.50E-03	3.50E-03	3.50E-03	3.50E-03	3.50E-03	3.50E-03	3.60E-03	8.15E-03
MEAT								
ADULT	1.02E-04	9.84E-05	3.81E-06	1.04E-04	1.02E-04	6.23E-04	9.80E-05	9.75E-05
TEEN	6.03E-05	5.87E-05	3.13E-06	6.30E-05	6.16E-05	4.39E-04	5.86E-05	5.82E-05
CHILD	7.21E-05	7.06E-05	5.73E-06	7.65E-05	7.46E-05	6.45E-04	7.08E-05	7.03E-05

VI-11

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 14 COW
 AT 2.77 MILES SSE

SEMI-ANNUAL BETA AIR DOSE = 1.29E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 7.10E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.42E-04	4.42E-04	4.42E-04	4.42E-04	4.42E-04	4.42E-04	4.54E-04	1.03E-03
COW MILK								
ADULT	3.22E-05	2.95E-05	3.13E-06	3.38E-05	3.36E-05	7.54E-04	2.92E-05	2.89E-05
TEEN	4.17E-05	3.85E-05	5.64E-06	4.63E-05	4.60E-05	1.18E-03	3.82E-05	3.76E-05
CHILD	6.48E-05	6.01E-05	1.35E-05	7.43E-05	7.32E-05	2.32E-03	6.04E-05	5.94E-05
INFANT	9.88E-05	9.09E-05	2.50E-05	1.22E-04	1.14E-04	5.59E-03	9.18E-05	9.02E-05

TABLE VI-A-8
 Continued

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 11 VEG+RES
 AT 0.80 MILES S

SEMI-ANNUAL BETA AIR DOSE = 1.60E-02 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 8.81E-03 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.48E-03	5.48E-03	5.48E-03	5.48E-03	5.48E-03	5.48E-03	5.63E-03	1.28E-02
GROUND	5.20E-05	5.20E-05	5.20E-05	5.20E-05	5.20E-05	5.20E-05	5.20E-05	6.08E-05
VEGET								
ADULT	1.11E-03	1.07E-03	4.49E-05	1.13E-03	1.11E-03	6.60E-03	1.07E-03	1.06E-03
TEEN	1.26E-03	1.22E-03	6.27E-05	1.32E-03	1.27E-03	5.81E-03	1.23E-03	1.22E-03
CHILD	1.92E-03	1.89E-03	1.40E-04	2.04E-03	1.96E-03	8.84E-03	1.90E-03	1.88E-03
INHAL								
ADULT	5.90E-04	5.89E-04	1.91E-06	5.91E-04	5.92E-04	1.25E-03	5.90E-04	5.89E-04
TEEN	5.94E-04	5.93E-04	2.67E-06	5.96E-04	5.97E-04	1.41E-03	5.95E-04	5.92E-04
CHILD	5.25E-04	5.24E-04	3.61E-06	5.27E-04	5.28E-04	1.43E-03	5.26E-04	5.24E-04
INFANT	3.02E-04	3.01E-04	2.70E-06	3.04E-04	3.04E-04	1.13E-03	3.03E-04	3.01E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 12 PORK
 AT 0.97 MILES S

SEMI-ANNUAL BETA AIR DOSE = 9.76E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 5.38E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.35E-03	3.35E-03	3.35E-03	3.35E-03	3.35E-03	3.35E-03	3.44E-03	7.79E-03
MEAT								
ADULT	9.66E-05	9.39E-05	3.00E-06	9.80E-05	9.66E-05	5.06E-04	9.37E-05	9.33E-05
TEEN	5.73E-05	5.61E-05	2.46E-06	5.94E-05	5.83E-05	3.55E-04	5.60E-05	5.57E-05
CHILD	6.87E-05	6.75E-05	4.50E-06	7.21E-05	7.06E-05	5.19E-04	6.76E-05	6.72E-05

VI-18

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 13 COW
 AT 2.77 MILES S

SEMI-ANNUAL BETA AIR DOSE = 8.87E-04 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 4.89E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.05E-04	3.05E-04	3.05E-04	3.05E-04	3.05E-04	3.05E-04	3.13E-04	7.08E-04
COW MILK								
ADULT	2.17E-05	2.03E-05	1.70E-06	2.26E-05	2.25E-05	4.14E-04	2.01E-05	1.99E-05
TEEN	2.81E-05	2.64E-05	3.06E-06	3.07E-05	3.05E-05	6.48E-04	2.63E-05	2.59E-05
CHILD	4.39E-05	4.14E-05	7.35E-06	4.90E-05	4.85E-05	1.27E-03	4.15E-05	4.10E-05
INFANT	6.69E-05	6.26E-05	1.36E-05	7.95E-05	7.50E-05	3.05E-03	6.31E-05	6.22E-05

TABLE VI-A-9
 Continued

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 14 VEG+RES
 AT 0.64 MILES SSW

SEMI-ANNUAL BETA AIR DOSE = 1.40E-02 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 6.06E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.68E-03	3.68E-03	3.68E-03	3.68E-03	3.68E-03	3.68E-03	3.81E-03	9.52E-03
GROUND	4.07E-05	4.07E-05	4.07E-05	4.07E-05	4.07E-05	4.07E-05	4.07E-05	4.76E-05
VEGET								
ADULT	1.04E-03	1.01E-03	3.52E-05	1.06E-03	1.04E-03	5.31E-03	1.01E-03	1.00E-03
TEEN	1.18E-03	1.15E-03	4.91E-05	1.23E-03	1.19E-03	4.72E-03	1.16E-03	1.15E-03
CHILD	1.81E-03	1.78E-03	1.10E-04	1.90E-03	1.84E-03	7.19E-03	1.79E-03	1.78E-03
INFANT								
INHAL								
ADULT	5.57E-04	5.56E-04	1.79E-06	5.58E-04	5.59E-04	1.18E-03	5.58E-04	5.56E-04
TEEN	5.61E-04	5.60E-04	2.51E-06	5.63E-04	5.64E-04	1.33E-03	5.62E-04	5.59E-04
CHILD	4.96E-04	4.95E-04	3.39E-06	4.98E-04	4.99E-04	1.35E-03	4.97E-04	4.95E-04
INFANT	2.86E-04	2.85E-04	2.53E-06	2.87E-04	2.87E-04	1.06E-03	2.87E-04	2.84E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 15 COW+BEEF
 AT 0.65 MILES SSW

SEMI-ANNUAL BETA AIR DOSE = 1.42E-02 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 7.83E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	5.00E-03	1.13E-02
MEAT								
ADULT	1.40E-04	1.37E-04	3.81E-06	1.42E-04	1.40E-04	6.61E-04	1.36E-04	1.36E-04
TEEN	8.31E-05	8.15E-05	3.13E-06	8.58E-05	8.44E-05	4.62E-04	8.14E-05	8.10E-05
CHILD	9.96E-05	9.81E-05	5.73E-06	1.04E-04	1.02E-04	6.72E-04	9.83E-05	9.78E-05
COW MILK								
ADULT	3.52E-04	3.25E-04	3.13E-05	3.68E-04	3.66E-04	7.57E-03	3.22E-04	3.19E-04
TEEN	4.56E-04	4.24E-04	5.64E-05	5.02E-04	4.99E-04	1.19E-02	4.21E-04	4.15E-04
CHILD	7.09E-04	6.63E-04	1.35E-04	8.04E-04	7.94E-04	2.33E-02	6.65E-04	6.56E-04
INFANT	1.08E-03	1.00E-03	2.50E-04	1.31E-03	1.23E-03	5.60E-02	1.01E-03	9.95E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 16 RES
 AT 0.74 MILES SW

SEMI-ANNUAL BETA AIR DOSE = 1.33E-02 MILLIRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 7.34E-03 MILLIRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.57E-03	4.57E-03	4.57E-03	4.57E-03	4.57E-03	4.57E-03	4.69E-03	1.06E-02
GROUND	2.89E-05	2.89E-05	2.89E-05	2.89E-05	2.89E-05	2.89E-05	2.89E-05	3.38E-05
INHAL								
ADULT	4.92E-04	4.91E-04	1.60E-06	4.93E-04	4.94E-04	1.05E-03	4.92E-04	4.90E-04
TEEN	4.95E-04	4.94E-04	2.24E-06	4.97E-04	4.98E-04	1.18E-03	4.96E-04	4.94E-04
CHILD	4.38E-04	4.37E-04	3.03E-06	4.39E-04	4.40E-04	1.20E-03	4.39E-04	4.36E-04
INFANT	2.52E-04	2.51E-04	2.27E-06	2.54E-04	2.54E-04	9.49E-04	2.53E-04	2.51E-04

VI-20

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 1 VEG
 AT 0.84 MILES SW

SEMI-ANNUAL BETA AIR DOSE = 9.76E-03 MILLIRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 5.38E-03 MILLIRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.35E-03	3.35E-03	3.35E-03	3.35E-03	3.35E-03	3.35E-03	3.44E-03	7.79E-03
VEGET								
ADULT	6.70E-04	6.52E-04	1.90E-05	6.80E-04	6.69E-04	2.99E-03	6.52E-04	6.49E-04
TEEN	7.61E-04	7.46E-04	2.65E-05	7.86E-04	7.66E-04	2.68E-03	7.48E-04	7.43E-04
CHILD	1.17E-03	1.15E-03	5.92E-05	1.22E-03	1.18E-03	4.09E-03	1.16E-03	1.15E-03

TABLE VI-A-11

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 2 COW,BEEF
 AT 1.66 MILES SW

SEMI-ANNUAL BETA AIR DOSE = 1.88E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 8.53E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.21E-04	5.21E-04	5.21E-04	5.21E-04	5.21E-04	5.21E-04	5.39E-04	1.32E-03
MEAT								
ADULT	1.94E-05	1.92E-05	3.28E-07	1.96E-05	1.94E-05	6.41E-05	1.91E-05	1.91E-05
TEEN	1.16E-05	1.14E-05	2.70E-07	1.18E-05	1.17E-05	4.40E-05	1.14E-05	1.14E-05
CHILD	1.39E-05	1.38E-05	4.93E-07	1.43E-05	1.41E-05	6.30E-05	1.38E-05	1.38E-05
COW MILK								
ADULT	4.76E-05	4.54E-05	2.70E-06	4.91E-05	4.89E-05	6.66E-04	4.51E-05	4.48E-05
TEEN	6.19E-05	5.91E-05	4.85E-06	6.59E-05	6.55E-05	1.04E-03	5.89E-05	5.84E-05
CHILD	9.68E-05	9.28E-05	1.16E-05	1.05E-04	1.04E-04	2.03E-03	9.30E-05	9.22E-05
INFANT	1.47E-04	1.41E-04	2.15E-05	1.67E-04	1.60E-04	4.86E-03	1.41E-04	1.40E-04

VI-21

TABLE VI-A-11
 Continued

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 3 RES
 AT 1.10 MILES WSW

SEMI-ANNUAL BETA AIR DOSE = 6.65E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 3.67E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.28E-03	2.28E-03	2.28E-03	2.28E-03	2.28E-03	2.28E-03	2.35E-03	5.31E-03
GRO'ND	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	2.19E-05
INHAL								
ADULT	2.46E-04	2.46E-04	7.63E-07	2.46E-04	2.47E-04	5.20E-04	2.46E-04	2.45E-04
TEEN	2.48E-04	2.47E-04	1.10E-06	2.48E-04	2.49E-04	5.84E-04	2.48E-04	2.47E-04
CHILD	2.19E-04	2.18E-04	1.48E-06	2.20E-04	2.20E-04	5.93E-04	2.19E-04	2.18E-04
INFANT	1.26E-04	1.26E-04	1.11E-06	1.27E-04	1.27E-04	4.68E-04	1.26E-04	1.25E-04

VI-22

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 5 COW
 AT 4.12 MILES WSW

SEMI-ANNUAL BETA AIR DOSE = 3.55E-04 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.59E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.71E-05	9.71E-05	9.71E-05	9.71E-05	9.71E-05	9.71E-05	1.01E-04	2.47E-04
COW MILK								
ADULT	9.03E-06	8.58E-06	5.39E-07	9.32E-06	9.27E-06	1.33E-04	8.52E-06	8.47E-06
TEEN	1.17E-05	1.12E-05	9.70E-07	1.25E-05	1.25E-05	2.08E-04	1.11E-05	1.10E-05
CHILD	1.83E-05	1.75E-05	2.33E-06	2.00E-05	1.98E-05	4.06E-04	1.76E-05	1.74E-05
INFANT	2.79E-05	2.65E-05	4.30E-06	3.19E-05	3.05E-05	9.70E-04	2.67E-05	2.64E-05

TABLE VI-A-12

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 4 BEEF, VEG
 AT 2.45 MILES WSW

SEMI-ANNUAL BETA AIR DOSE = 1.06E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 5.87E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.66E-04	3.66E-04	3.66E-04	3.66E-04	3.66E-04	3.66E-04	3.75E-04	8.50E-04
VEGET								
ADULT	7.31E-05	7.12E-05	2.05E-06	7.41E-05	7.30E-05	3.23E-04	7.11E-05	7.08E-05
TEEN	8.30E-05	8.14E-05	2.86E-06	8.57E-05	8.36E-05	2.90E-04	8.16E-05	8.11E-05
CHILD	1.27E-04	1.26E-04	6.39E-06	1.33E-04	1.29E-04	4.43E-04	1.26E-04	1.26E-04
MEAT								
ADULT	1.04E-05	1.02E-05	2.23E-07	1.05E-05	1.04E-05	4.10E-05	1.02E-05	1.02E-05
TEEN	6.20E-06	6.10E-06	1.84E-07	6.35E-06	6.27E-06	2.84E-05	6.10E-06	6.07E-06
CHILD	7.44E-06	7.35E-06	3.36E-07	7.70E-06	7.59E-06	4.10E-05	7.37E-06	7.33E-06

VI-23

TABLE VI-A-12
 Continued

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 6 VEG-RES
 AT 1.20 MILES W

SEMI-ANNUAL BETA AIR DOSE = 6.21E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 3.43E-03 MILLRADS

PATHWAY	T,BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.13E-03	2.19E-03	4.86E-03
GROUND	1.59E-05	1.59E-05	1.59E-05	1.59E-05	1.59E-05	1.59E-05	1.59E-05	1.86E-05
VEGET								
ADULT	4.28E-04	4.15E-04	1.37E-05	4.35E-04	4.28E-04	2.11E-03	4.15E-04	4.13E-04
TEEN	4.86E-04	4.75E-04	1.92E-05	5.04E-04	4.96E-04	1.88E-03	4.76E-04	4.73E-04
CHILD	7.44E-04	7.34E-04	4.28E-05	7.81E-04	7.57E-04	2.86E-03	7.37E-04	7.33E-04
INFANT								
ADULT	2.30E-04	2.29E-04	7.26E-07	2.30E-04	2.30E-04	4.84E-04	2.30E-04	2.29E-04
TEEN	2.31E-04	2.31E-04	1.02E-06	2.32E-04	2.32E-04	5.44E-04	2.31E-04	2.30E-04
CHILD	2.04E-04	2.04E-04	1.37E-06	2.05E-04	2.05E-04	5.52E-04	2.05E-04	2.04E-04
INFANT	1.18E-04	1.17E-04	1.03E-06	1.18E-04	1.18E-04	4.35E-04	1.18E-04	1.17E-04

VI-24

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 7 PORK
 AT 1.23 MILES W

SEMI-ANNUAL BETA AIR DOSE = 5.77E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 3.18E-03 MILLRADS

PATHWAY	T,BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	2.03E-03	4.60E-03
MEAT								
ADULT	5.67E-05	5.54E-05	1.42E-06	5.74E-05	5.67E-05	2.50E-04	5.53E-05	5.51E-05
TEEN	3.37E-05	3.31E-05	1.16E-06	3.47E-05	3.42E-05	1.74E-04	3.31E-05	3.29E-05
CHILD	4.04E-05	3.98E-05	2.13E-06	4.20E-05	4.13E-05	2.53E-04	3.98E-05	3.97E-05

TABLE VI-A-13

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 8 BEEF,VEG,RES,PRK
 AT 2.03 MILES WNW

SEMI-ANNUAL BETA AIR DOSE = 2.37E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.11E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.78E-04	6.78E-04	6.78E-04	6.78E-04	6.78E-04	6.78E-04	7.01E-04	1.69E-03
GROUND	6.38E-06	6.38E-06	6.38E-06	6.38E-06	6.38E-06	6.38E-06	6.38E-06	7.46E-06
VEGET								
ADULT	1.71E-04	1.66E-04	5.51E-06	1.74E-04	1.71E-04	8.43E-04	1.66E-04	1.65E-04
TEEN	1.94E-04	1.90E-04	7.69E-06	2.01E-04	1.96E-04	7.51E-04	1.91E-04	1.89E-04
CHILD	2.98E-04	2.93E-04	1.72E-05	3.13E-04	3.03E-04	1.14E-03	2.95E-04	2.93E-04
MEAT								
ADULT	2.44E-05	2.39E-05	6.01E-07	2.47E-05	2.44E-05	1.06E-04	2.38E-05	2.38E-05
TEEN	1.45E-05	1.42E-05	4.94E-07	1.49E-05	1.47E-05	7.40E-05	1.42E-05	1.42E-05
CHILD	1.74E-05	1.72E-05	9.03E-07	1.81E-05	1.78E-05	1.07E-04	1.72E-05	1.71E-05
INHAL								
ADULT	9.18E-05	9.16E-05	2.83E-07	9.20E-05	9.21E-05	1.91E-04	9.18E-05	9.15E-05
TEEN	9.24E-05	9.22E-05	3.96E-07	9.27E-05	9.29E-05	2.15E-04	9.25E-05	9.21E-05
CHILD	8.17E-05	8.15E-05	5.35E-07	8.20E-05	8.22E-05	2.18E-04	8.18E-05	8.15E-05
INFANT	4.70E-05	4.69E-05	4.01E-07	4.73E-05	4.73E-05	1.71E-04	4.72E-05	4.68E-05

VI-25

TABLE VI-A-14

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 9 VEG.RES
 AT 2.58 MILES NW

SEMI-ANNUAL BETA AIR DOSE = 1.55E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 8.57E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.33E-04	5.33E-04	5.33E-04	5.33E-04	5.33E-04	5.33E-04	5.47E-04	1.24E-03
GROUND	4.62E-06	4.62E-06	4.62E-06	4.62E-06	4.62E-06	4.62E-06	4.62E-06	5.40E-06
VEGET								
ADULT	1.08E-04	1.04E-04	3.99E-06	1.10E-04	1.07E-04	5.96E-04	1.04E-04	1.03E-04
TEEN	1.22E-04	1.19E-04	5.57E-06	1.27E-04	1.23E-04	5.27E-04	1.19E-04	1.18E-04
CHILD	1.86E-04	1.83E-04	1.25E-05	1.97E-04	1.90E-04	8.02E-04	1.85E-04	1.83E-04
INHAL								
ADULT	5.74E-05	5.73E-05	1.74E-07	5.75E-05	5.76E-05	1.19E-04	5.74E-05	5.72E-05
TEEN	5.78E-05	5.76E-05	2.44E-07	5.79E-05	5.81E-05	1.33E-04	5.78E-05	5.76E-05
CHILD	5.11E-05	5.09E-05	3.30E-07	5.12E-05	5.14E-05	1.35E-04	5.11E-05	5.09E-05
INFANT	2.94E-05	2.93E-05	2.47E-07	2.96E-05	2.96E-05	1.06E-04	2.95E-05	2.93E-05

VI-26

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 10 COW,PORK
 AT 3.50 MILES NW

SEMI-ANNUAL BETA AIR DOSE = 8.43E-04 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 4.65E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.89E-04	2.89E-04	2.89E-04	2.89E-04	2.89E-04	2.89E-04	2.97E-04	6.73E-04
MEAT								
ADULT	8.29E-06	8.10E-06	2.07E-07	8.38E-06	8.29E-06	3.66E-05	8.08E-06	8.06E-06
TEEN	4.92E-06	4.83E-06	1.70E-07	5.07E-06	4.99E-06	2.55E-05	4.83E-06	4.81E-06
CHILD	5.90E-06	5.82E-06	3.11E-07	6.15E-06	6.04E-06	3.70E-05	5.83E-06	5.81E-06
COW MILK								
ADULT	2.07E-05	1.93E-05	1.70E-06	2.16E-05	2.15E-05	4.13E-04	1.91E-05	1.89E-05
TEEN	2.68E-05	2.51E-05	3.06E-06	2.94E-05	2.92E-05	6.47E-04	2.50E-05	2.47E-05
CHILD	4.18E-05	3.93E-05	7.35E-06	4.70E-05	4.64E-05	1.27E-03	3.94E-05	3.89E-05
INFANT	6.38E-05	5.95E-05	1.36E-05	7.64E-05	7.19E-05	3.05E-03	6.00E-05	5.91E-05

TABLE VI-A-15

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 11 VEG.RES
 AT 2.05 MILES NNW

SEMI-ANNUAL BETA AIR DOSE = 2.54E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.20E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.36E-04	7.36E-04	7.36E-04	7.36E-04	7.36E-04	7.36E-04	7.60E-04	1.83E-03
GROUND	8.12E-06	8.12E-06	8.12E-06	8.12E-06	8.12E-06	8.12E-06	8.12E-06	9.49E-06
VEGET								
ADULT	1.85E-04	1.78E-04	7.01E-06	1.88E-04	1.84E-04	1.04E-03	1.78E-04	1.77E-04
TEEN	2.09E-04	2.04E-04	9.79E-06	2.18E-04	2.11E-04	9.18E-04	2.04E-04	2.03E-04
CHILD	3.20E-04	3.15E-04	2.19E-05	3.39E-04	3.26E-04	1.40E-03	3.16E-04	3.14E-04
INHAL								
ADULT	9.84E-05	9.82E-05	3.05E-07	9.85E-05	9.87E-05	2.06E-04	9.84E-05	9.81E-05
TEEN	9.90E-05	9.88E-05	4.28E-07	9.93E-05	9.95E-05	2.31E-04	9.92E-05	9.87E-05
CHILD	8.76E-05	8.73E-05	5.78E-07	8.79E-05	8.81E-05	2.34E-04	8.77E-05	8.73E-05
INFANT	5.04E-05	5.02E-05	4.33E-07	5.07E-05	5.07E-05	1.84E-04	5.05E-05	5.02E-05

VI-27

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-24-82
 SPECIAL LOCATION # 12 BEEF
 AT 2.28 MILES NNW

SEMI-ANNUAL BETA AIR DOSE = 2.09E-03 MILLRADS
 SEMI-ANNUAL GAMMA AIR DOSE = 1.15E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.16E-04	7.16E-04	7.16E-04	7.16E-04	7.16E-04	7.16E-04	7.35E-04	1.66E-03
MEAT								
ADULT	2.06E-05	2.01E-05	5.99E-07	2.09E-05	2.06E-05	1.03E-04	2.00E-05	1.99E-05
TEEN	1.22E-05	1.20E-05	4.93E-07	1.26E-05	1.24E-05	7.17E-05	1.20E-05	1.19E-05
CHILD	1.46E-05	1.44E-05	9.00E-07	1.53E-05	1.50E-05	1.05E-04	1.44E-05	1.44E-05

TABLE VI-A-16

FORT CALHOUN 1 SEMI-ANNUAL 1/82- 6/82 TRI-EX TOWER DATA 08-24-82
 SEMI-ANNUAL ALARA INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	ROSE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.37E-03 60.86%	6.37E-03 61.29%	6.37E-03 96.96%	6.37E-03 60.35%	6.37E-03 60.47%	6.37E-03 18.24%	6.73E-03 62.64%	2.08E-02 83.81%
GROUND	5.99E-05 0.57%	5.99E-05 0.58%	5.99E-05 0.91%	5.99E-05 0.57%	5.99E-05 0.57%	5.99E-05 0.17%	5.99E-05 0.56%	7.00E-05 0.28%
INHAL	1.50E-03 14.37%	1.50E-03 14.45%	4.88E-06 0.07%	1.51E-03 14.28%	1.51E-03 14.33%	3.11E-03 8.91%	1.50E-03 13.99%	1.50E-03 6.06%
VEGET	1.74E-03 16.63%	1.69E-03 16.32%	8.80E-05 1.34%	1.79E-03 17.01%	1.78E-03 16.92%	1.68E-02 48.18%	1.69E-03 15.71%	1.68E-03 6.79%
COW MILK	4.05E-04 3.87%	3.84E-04 3.70%	3.75E-05 0.57%	4.30E-04 4.08%	4.24E-04 4.03%	6.99E-03 20.01%	3.84E-04 3.57%	3.80E-04 1.54%
MEAT	3.87E-04 3.70%	3.80E-04 3.66%	9.47E-06 0.14%	3.93E-04 3.72%	3.88E-04 3.69%	1.57E-03 4.50%	3.80E-04 3.54%	3.79E-04 1.53%
TOTAL	1.05E-02	1.04E-02	6.57E-03	1.06E-02	1.05E-02	3.49E-02	1.07E-02	2.48E-02

FT. CALHOUN 1 SEMI-ANNUAL RELEASES FOR JAN 1982 TO JUN 1982 08-04-82

DISCHARGE=8.02E+02 CFS SOURCE TERM MULTIPLIER=1.00E+00

50-MILE POPULATION=8.36E+05 FRACTION --- ADULT=0.66
TEENAGE=0.14
CHILD=0.20

FRESHWATER SITE

FT. CALHOUN 5. TERMS 1/82- 6/82

NO RECONCENTRATION OF NUCLIDES

* * * ADULT DOSE FACTORS * * *

NUCLIDE	CURIE/.SYR	ROSE	INGESTION DOSE FACTORS										SHORELINE		
			LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON	(MREM/HR)	(PCI/M*2)		
27CO	57	1.13E-03	0.0	1.75E-07	2.91E-07	0.0	0.0	0.0	0.0	0.0	4.44E-06	1.00E-09	9.10E-10	1.00E+00	
62HO	99	8.56E-04	0.0	4.31E-06	8.20E-07	0.0	9.77E-06	0.0	0.0	0.0	9.99E-06	2.20E-09	1.90E-09	1.00E+00	
43TC	99H	4.17E-04	2.47E-10	6.98E-10	8.90E-09	0.0	1.06E-08	3.42E-10	0.0	0.0	4.13E-07	1.10E-09	9.60E-10	1.00E+00	
58CE	141	1.93E-03	9.37E-09	6.34E-09	7.18E-10	0.0	2.94E-09	0.0	0.0	0.0	2.42E-05	6.20E-10	5.50E-10	1.00E+00	
24CR	51	8.25E-03	0.0	0.0	2.66E-09	1.59E-09	5.87E-10	3.53E-09	0.0	0.0	6.69E-07	2.60E-10	2.20E-10	1.00E+00	
53I	131	3.67E-03	4.16E-06	5.96E-06	3.41E-06	1.95E-03	1.02E-05	0.0	0.0	0.0	1.57E-06	3.40E-09	2.80E-09	1.00E+00	
53I	133	1.01E-03	1.43E-06	2.46E-06	7.57E-07	4.77E-04	4.33E-06	0.0	0.0	0.0	2.18E-06	4.50E-09	3.70E-09	1.00E+00	
56BA	140	2.58E-03	2.03E-05	2.55E-08	1.34E-06	0.0	8.68E-09	1.46E-08	0.0	0.0	4.18E-05	2.40E-09	2.10E-09	1.00E+00	
48RU	103	1.00E-03	1.85E-07	0.0	7.98E-08	0.0	7.07E-07	0.0	0.0	0.0	2.16E-05	4.20E-09	3.60E-09	1.00E+00	
55CS	137	1.25E-02	7.98E-05	1.09E-04	7.15E-05	0.0	3.71E-05	1.23E-05	0.0	0.0	2.10E-06	4.90E-09	4.20E-09	1.00E+00	
40ZR	95	1.74E-03	3.04E-08	9.76E-09	6.61E-09	0.0	1.54E-08	0.0	0.0	0.0	3.03E-05	5.80E-09	5.00E-09	1.00E+00	
41NB	95	8.70E-04	6.23E-09	3.46E-09	1.36E-09	0.0	3.43E-09	0.0	0.0	0.0	2.10E-05	6.00E-09	5.10E-09	1.00E+00	
55CS	134	6.75E-03	6.22E-05	1.48E-04	1.21E-04	0.0	4.80E-05	1.59E-05	0.0	0.0	2.59E-06	1.40E-08	1.20E-08	1.00E+00	
27CO	58	7.39E-03	0.0	7.46E-07	1.67E-06	0.0	0.0	0.0	0.0	0.0	1.51E-05	8.20E-09	7.00E-09	1.00E+00	
25MN	54	1.02E-03	0.0	4.57E-06	8.73E-07	0.0	1.36E-06	0.0	0.0	0.0	1.40E-05	6.80E-09	5.80E-09	1.00E+00	
55CS	136	1.16E-03	6.51E-06	2.57E-05	1.85E-05	0.0	1.43E-05	1.96E-06	0.0	0.0	2.92E-06	1.70E-08	1.50E-08	1.00E+00	
26FE	59	1.74E-03	4.34E-06	1.03E-05	3.92E-06	0.0	0.0	2.86E-06	0.0	0.0	3.40E-05	9.40E-09	8.00E-09	1.00E+00	
30ZN	65	2.24E-03	4.85E-06	1.54E-05	6.97E-06	0.0	1.03E-05	0.0	0.0	0.0	5.70E-06	4.60E-09	4.00E-09	1.00E+00	
27CO	60	1.91E-03	0.0	2.15E-06	4.72E-06	0.0	0.0	0.0	0.0	0.0	4.02E-05	2.00E-08	1.70E-08	1.00E+00	
57LA	140	7.15E-04	2.50E-09	1.26E-09	3.34E-10	0.0	0.0	0.0	0.0	0.0	9.25E-05	1.70E-08	1.50E-08	1.00E+00	
51SB	124	1.15E-03	2.81E-06	5.30E-08	1.11E-06	6.79E-09	0.0	2.18E-06	0.0	0.0	7.95E-05	1.50E-08	1.30E-08	1.00E+00	
1H	3	2.10E+02	0.0	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	0.0	0.0	1.00E+00	

TABLE VI-C-1

* * * TEENAGER DOSE FACTORS * * *

NUCLIDE	CURIE/.5YR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)								SHORELINE (MREM/4R)/(PCI/M**2)		RECON
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY		
SBCE 141	1.93E-03	1.26E-08	8.46E-09	9.70E-10	0.0	2.94E-09	0.0	2.29E-05				
53I 131	3.67E-03	5.57E-06	7.87E-06	4.69E-06	2.27E-03	1.02E-05	0.0	1.49E-06				
53I 133	1.01E-03	2.03E-06	3.44E-06	1.06E-06	6.25E-04	4.33E-06	0.0	2.50E-06				
56BA 140	2.58E-03	2.83E-05	3.48E-08	1.82E-06	0.0	6.68E-09	2.33E-08	4.14E-06				
44RU 103	1.00E-03	2.37E-07	0.0	1.06E-07	0.0	7.07E-07	0.0	1.85E-05				
55CS 137	1.25E-02	1.07E-04	1.44E-04	5.05E-05	0.0	3.71E-05	1.91E-05	1.92E-06				
40ZR 95	1.74E-03	3.72E-08	1.24E-08	8.66E-09	0.0	1.54E-08	0.0	2.68E-05				
41NB 95	8.70E-04	7.24E-09	4.36E-09	2.46E-09	0.0	3.43E-09	0.0	1.78E-05				
55CS 134	6.75E-03	8.05E-05	1.94E-04	9.06E-05	0.0	4.80E-05	2.35E-05	2.24E-06				
27CO 58	7.39E-03	0.0	9.92E-07	2.26E-06	0.0	0.0	0.0	1.34E-05				
27CO 60	1.91E-03	0.0	2.76E-06	6.30E-06	0.0	0.0	0.0	3.31E-05				
57LA 140	7.15E-04	3.48E-09	1.72E-09	4.55E-10	0.0	0.0	0.0	9.48E-05				
IH 3	2.10E+02	0.0	1.06E-07	1.06E-07	1.06E-07	1.34E-07	1.06E-07	1.06E-07				

* * * CHILD DOSE FACTORS * * *

NUCLIDE	CURIE/.5YR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)								SHORELINE (MREM/4R)/(PCI/M**2)		RECON
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY		
SBCE 141	1.93E-03	3.76E-08	1.88E-08	2.80E-09	0.0	2.94E-09	0.0	2.36E-05				
53I 131	3.67E-03	1.63E-05	1.67E-05	1.26E-05	5.43E-03	1.02E-05	0.0	1.43E-06				
53I 133	1.01E-03	5.98E-06	7.38E-06	2.90E-06	1.78E-03	4.33E-06	0.0	2.99E-06				
56BA 140	2.58E-03	6.26E-05	7.25E-08	4.85E-06	0.0	6.68E-09	4.32E-08	4.21E-06				
44RU 103	1.00E-03	6.78E-07	0.0	2.74E-07	0.0	7.07E-07	0.0	1.78E-05				
55CS 137	1.25E-02	3.12E-04	3.02E-04	4.50E-05	0.0	3.71E-05	3.54E-05	1.84E-06				
40ZR 95	1.74E-03	1.04E-07	2.42E-08	2.20E-08	0.0	1.54E-08	0.0	2.50E-05				
41NB 95	8.70E-04	1.95E-08	8.32E-09	6.1E-09	0.0	3.43E-09	0.0	1.44E-05				
55CS 134	6.75E-03	2.24E-04	3.77E-04	8.02E-05	0.0	4.80E-05	4.19E-05	2.04E-06				
27CO 58	7.39E-03	0.0	1.85E-06	5.58E-06	0.0	0.0	0.0	1.10E-05				
27CO 60	1.91E-03	0.0	5.17E-06	1.55E-05	0.0	0.0	0.0	2.86E-05				
57LA 140	7.15E-04	1.01E-08	3.52E-09	1.19E-09	0.0	0.0	0.0	1.00E-04				
IH 3	2.10E+02	0.0	2.03E-07	2.03E-07	2.03E-07	1.34E-07	2.03E-07	2.03E-07				

TABLE VI-C-2

* * * INFANT DOSE FACTORS * * *

NUCLIDE	CURIE/.5YR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)										SHORELINE (MREM/HR)/(PCI/M**2)	
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON		
SRCE 141	1.93E-03	8.00E-08	4.91E-08	5.75E-09	0.0	2.94E-09	0.0	2.38E-05					
53I 131	3.67E-03	3.42E-05	4.07E-05	2.38E-05	1.31E-02	1.02E-05	0.0	1.53E-06					
53I 133	1.01E-03	1.26E-05	1.84E-05	5.58E-06	4.35E-03	4.33E-06	0.0	3.27E-06					
56BA 140	2.58E-03	1.74E-04	1.75E-07	8.99E-06	0.0	8.68E-09	1.07E-07	4.43E-06					
44RU 103	1.00E-03	1.41E-06	0.0	4.85E-07	0.0	7.07E-07	0.0	1.76E-05					
55CS 137	1.25E-02	6.53E-04	7.31E-04	4.20E-05	0.0	3.71E-05	8.81E-05	1.89E-06					
40ZR 95	1.74E-03	2.11E-07	5.32E-08	3.78E-08	0.0	1.54E-08	0.0	2.38E-05					
41HR 95	8.70E-04	3.89E-08	1.75E-08	1.03E-08	0.0	3.43E-09	0.0	1.40E-05					
55CS 134	6.75E-03	4.58E-04	8.24E-04	6.97E-05	0.0	4.80E-05	9.42E-05	1.96E-06					
27CO 58	7.39E-03	0.0	3.78E-06	9.26E-06	0.0	0.0	0.0	9.79E-06					
27CO 60	1.91E-03	0.0	1.07E-05	2.56E-05	0.0	0.0	0.0	2.64E-05					
57LA 140	7.15E-04	2.12E-06	8.37E-09	2.16E-09	0.0	0.0	0.0	1.04E-04					
IH 3	2.10E+02	0.0	3.07E-07	3.07E-07	3.07E-07	1.34E-07	3.07E-07	3.07E-07					

TOTAL NUMBER IN SOURCE TERM IS 22 TOTAL RELEASE IS 2.0986E+02

TABLE VI-C-3

A D U L T D O S E S

----- DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		8.43E-02	1.43E-01	1.03E-01	3.72E-03	4.93E-02	1.62E-02	2.12E-02
DRINKING		5.01E-05	1.01E-03	9.89E-04	1.16E-03	9.58E-04	9.39E-04	9.54E-04
SHORELINE	1.13E-04	9.68E-05	9.68E-05	9.68E-05	9.68E-05	9.68E-05	9.68E-05	9.68E-05
SWIMMING	0.0	1.43E-06	1.43E-06	1.43E-06	1.43E-06	1.43E-06	1.43E-06	1.43E-06
BOATING	0.0	7.13E-07	7.13E-07	7.13E-07	7.13E-07	7.13E-07	7.13E-07	7.13E-07
TOTAL	1.13E-04	8.45E-02	1.44E-01	1.04E-01	4.98E-03	5.03E-02	1.72E-02	2.23E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	21.0	1.0	24.00	
DRINKING	730.0	30.8	18.60	
SHORELINE	12.0	1.0	0.0	
SWIMMING	12.0	1.0	0.0	
BOATING	12.0	1.0	0.0	

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 69%	CS 137 55%	CS 137 50%	I 131 77%	CS 137 55%	CS 137 55%	CS 137 7%
		CS 134 29%	CS 134 40%	CS 134 46%	I 133 2%	CS 134 38%	CS 134 38%	NB 95 74%
			CS 136 1%	CS 136 1%	H 3 19%	CS 136 1%	H 3 4%	CS 134 4%
			ZN 65 1%			ZN 65 2%		ZN 65 5%
						H 3 1%		H 3 3%
DRINKING		BA 140 3%	CS 137 4%	CS 137 2%	I 131 19%	CS 137 1%	H 3 99%	H 3 97%
		CS 137 66%	CS 134 3%	CS 134 2%	H 3 80%	CS 134 1%		
		CS 134 27%	H 3 91%	H 3 93%		H 3 96%		
SHORELINE	CS 137 57%	CS 137 57%						
	CS 134 20%	CS 134 20%						
	CO 58 1%	CO 58 1%						
	CO 60 18%	CO 60 18%						
SWIM	I 131 3%							
	I 133 1%							
	BA 140 1%							
	RU 1 3 1%							
	CS 137 14%							
	ZR 95 3%							
	NB 95 1%							
	CS 134 22%							
	CO 58 15%							
	MN 54 1%							
	CS 136 5%							
	FE 59 4%							
	ZN 65 2%							
	CO 60 10%							
LA 140 3%								
SB 124 4%								

TABLE VI-C-4

VI-32

• • • AS LOW AS REASONABLY ACHIEVABLE • • •

TEENAGER DOSES

PATHWAY	DOSE (MREM PER .5YR INTAKE)							
	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		8.50E-02	1.42E-01	5.77E-02	3.10E-03	3.75E-02	1.83E-02	1.40E-02
DRINKING		4.63E-05	5.89E-04	5.45E-04	7.02E-04	6.70E-04	5.23E-04	5.27E-04
SHORELINE	6.31E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04
SWIMMING	0.0	7.96E-06	7.96E-06	7.96E-06	7.96E-06	7.96E-06	7.96E-06	7.96E-06
BOATING	0.0	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06
TOTAL	6.31E-04	8.56E-02	1.44E-01	5.88E-02	4.35E-03	3.88E-02	1.94E-02	1.51E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	16.0	1.0	24.00	
DRINKING	510.0	30.8	18.60	
SHORELINE	67.0	1.0	0.0	
SWIMMING	67.0	1.0	0.0	
BOATING	67.0	1.0	0.0	

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	CS 137	70%	CS 137	56%	CS 137	49%	I 131	82%
	CS 134	28%	CS 134	41%	CS 134	47%	I 133	3%
			ZN 65	1%	CS 136	1%	H 3	14%
					ZN 65	1%	ZN 65	2%
DRINKING	BA 140	3%	CS 137	7%	CS 137	2%	I 131	25%
	CS 137	66%	CS 134	5%	CS 134	2%	I 133	1%
	CS 134	27%	H 3	87%	H 3	94%	H 3	73%
					H 3	96%	H 3	96%
SHORELINE	CS 137	57%	CS 137	57%				
	CS 134	20%	CS 134	20%				
	CO 58	1%	CO 58	1%				
	CO 60	18%	CO 60	18%				
SWIM	I 131	3%						
	I 133	1%						
	BA 140	1%						
	RU 13	1%						
	CS 137	14%						
	ZR 95	3%						
	NP 95	1%						
	CS 134	22%						
	CO 58	15%						
	MN 54	1%						
	CS 136	5%						
	FE 59	4%						
	ZN 65	2%						
	CO 60	10%						
LA 140	3%							
SB 124	4%							

TABLE VI-C-5

VI-33

CHILD DOSES

----- DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.05E-01	1.24E-01	2.24E-02	3.13E-03	1.62E-02	1.44E-02	5.31E-03
DRINKING		1.32E-04	1.13E-03	1.01E-03	1.44E-03	6.70E-04	1.00E-03	9.97E-04
SHORELINE	1.32E-04	1.13E-04	1.13E-04	1.13E-04	1.13E-04	1.13E-04	1.13E-04	1.13E-04
SWIMMING	0.0	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06
BOATING	0.0	8.31E-07	8.31E-07	8.31E-07	8.31E-07	8.31E-07	8.31E-07	8.31E-07
TOTAL	1.32E-04	1.05E-01	1.25E-01	2.35E-02	4.68E-03	1.70E-02	1.55E-02	6.42E-03

	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	6.9	1.0	24.00	
DRINKING	510.0	30.8	18.60	
SHORELINE	14.0	1.0	0.0	
SWIMMING	14.0	1.0	0.0	
BOATING	14.0	1.0	0.0	

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 71%	CS 137 59%	CS 137 46%	I 131 84%	CS 137 55%	CS 137 59%	CS 137 8%
		CS 134 27%	CS 134 39%	CS 134 46%	I 133 3%	CS 134 38%	CS 134 37%	NB 95 66%
				CS 136 1%	H 3 11%	CS 136 1%	H 3 2%	CS 134 4%
				ZN 65 1%		ZN 65 2%		MN 54 1%
				H 3 1%		H 3 1%		CS 136 1%
DRINKING		BA 140 3%	CS 137 7%	CS 137 1%	I 131 29%	CS 137 1%	CS 137 1%	H 3 98%
		CS 137 68%	CS 134 5%	CS 134 1%	I 133 1%	CS 134 1%	H 3 98%	
		CS 134 26%	H 3 86%	H 3 97%	H 3 68%	H 3 96%		
SHORELINE	CS 137 57%	CS 137 57%						
	CS 134 20%	CS 134 20%						
	CO 58 1%	CO 56 1%						
	CO 60 1%	CO 60 1%						
SWIM	I 131 3%							
	I 133 1%							
	BA 140 1%							
	RU 1 3 1%							
	CS 137 14%							
	ZR 95 3%							
	NB 95 1%							
	CS 134 22%							
	CO 58 15%							
	MN 54 1%							
	CS 136 5%							
	FE 59 4%							
	ZN 65 2%							
	CO 60 10%							
	LA 140 3%							
SB 124 4%								

TABLE VI-C-6

VI-34

* * * AS LOW AS REASONABLY ACHIEVABLE * * *

I N F A N T D O S E S

-----DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLT
FISH DRINKING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORELINE	0.0	2.74E-04	1.83E-03	1.52E-03	2.58E-03	6.70E-04	1.53E-03	1.50E-03
TOTAL	0.0	2.74E-04	1.83E-03	1.52E-03	2.58E-03	6.70E-04	1.53E-03	1.50E-03

USAGE (KG/YR,HR/YR) DILUTION TIME (HR) SHOREWIDTH FACTOR=0.2

0.0	1.0	24.00	
510.0	30.8	18.60	

* * * ISOTOPE CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLT
DRINKING	BA 140	3%	CS 137	11%	I 131	40%	CS 137	1%
	CS 137	69%	CS 134	6%	I 133	2%	CS 134	1%
	CS 134	26%	H 3	81%	H 3	57%	H 3	96%
				H 3	98%		CS 137	1%
							H 3	97%
								H 3
								H 3
								H 3

* * * SELECTED LOCATION * * *

LOCATION IS SITE DISCHG.

A D U L T D O S E S

----- DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		8.43E-02	1.43E-01	1.03E-01	3.72E-03	4.93E-02	1.62E-02	2.12E-02
DRINKING		1.54E-03	3.12E-02	3.05E-02	3.59E-02	2.95E-02	2.89E-02	2.94E-02
SHORELINE	1.13E-04	9.68E-05	9.68E-05	9.68E-05	9.68E-05	9.68E-05	9.68E-05	9.68E-05
SWIMMING	0.0	1.43E-06	1.43E-06	1.43E-06	1.43E-06	1.43E-06	1.43E-06	1.43E-06
BOATING	0.0	7.13E-07	7.13E-07	7.13E-07	7.13E-07	7.13E-07	7.13E-07	7.13E-07
TOTAL	1.13E-04	8.60E-02	1.74E-01	1.34E-01	3.98E-02	7.89E-02	4.52E-02	5.07E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	21.0	1.0	24.00	
DRINKING	730.0	1.0	12.00	
SHORELINE	12.0	1.0	0.0	
SWIMMING	12.0	1.0	0.0	
BOATING	12.0	1.0	0.0	

* * * ISOTOPE CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	CS 137	69%	CS 137	55%	CS 137	50%	I 131	77%
	CS 134	29%	CS 134	40%	CS 134	46%	I 133	2%
			CS 136	1%	CS 136	1%	H 3	19%
			ZN 65	1%			ZN 65	2%
DRINKING	BA 140	3%	CS 137	4%	CS 137	2%	I 131	19%
	CS 137	66%	CS 134	3%	CS 134	2%	H 3	79%
	CS 134	27%	H 3	91%	H 3	93%	CS 137	1%
					H 3	96%	CS 134	1%
SHORELINE	CS 137	57%	CS 137	57%				
	CS 134	20%	CS 134	20%				
	CO 58	1%	CO 58	1%				
	CO 60	18%	CO 60	18%				
SWIM	I 131	3%						
	I 133	1%						
	BA 140	1%						
	RU 3	1%						
	CS 137	14%						
	ZR 95	3%						
	NB 95	1%						
	CS 134	22%						
	CO 58	15%						
	MN 54	1%						
	CS 136	5%						
	FE 59	4%						
	ZN 65	2%						
	CO 60	10%						
	LA 140	3%						
SB 124	4%							

TABLE VI-C-8

VI-36

* * * SELECTED LOCATION * * *

LOCATION IS SITE DISCHG.

T E E N A G E R D O S E S

----- DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		8.50E-02	1.42E-01	5.77E-02	3.10E-03	3.75E-02	1.83E-02	1.40E-02
DRINKING		1.43E-03	1.81E-02	1.68E-02	2.18E-02	2.06E-02	1.61E-02	1.63E-02
SHORELINE	6.31E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04	5.40E-04
SWIMMING	0.0	7.96E-06	7.96E-06	7.96E-06	7.96E-06	7.96E-06	7.96E-06	7.96E-06
BOATING	0.0	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06
TOTAL	6.31E-04	8.70E-02	1.61E-01	7.50E-02	2.55E-02	5.87E-02	3.50E-02	3.08E-02

PATHWAY	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	16.0	1.0	24.00	
DRINKING	510.0	1.0	12.00	
SHORELINE	67.0	1.0	0.0	
SWIMMING	67.0	1.0	0.0	
BOATING	67.0	1.0	0.0	

* * * ISOTOPE CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI						
FISH	CS 137	70%	CS 137	56%	CS 137	49%	I 131	82%	CS 137	55%	CS 137	58%	CS 137	7%
	CS 134	26%	CS 134	41%	CS 134	47%	I 133	3%	CS 134	38%	CS 134	38%	NB 95	72%
			ZN 65	1%	CS 136	1%	H 3	14%	CS 136	1%	H 3	2%	CS 134	4%
					ZN 65	1%			ZN 65	2%			CS 136	1%
							H 3	1%	H 3	1%			ZN 65	6%
DRINKING	BA 140	3%	CS 137	7%	CS 137	2%	I 131	26%	CS 137	1%	CS 137	1%	H 3	97%
	CS 137	66%	CS 134	5%	CS 134	2%	I 133	1%	CS 134	1%	CS 134	1%		
	CS 134	27%	H 3	87%	H 3	94%	H 3	72%	H 3	96%				
SHORELINE	CS 137	57%	CS 137	57%										
	CS 134	20%	CS 134	20%										
	CO 58	1%	CO 58	1%										
	CO 60	18%	CO 60	18%										
SWIM	I 131	3%												
	I 133	1%												
	BA 140	1%												
	RU 1 3	1%												
	CS 137	14%												
	ZR 95	3%												
	NB 95	1%												
	CS 134	22%												
	CO 58	15%												
	MN 54	1%												
	CS 136	5%												
	FE 59	4%												
	ZN 65	2%												
	CO 60	10%												
LA 140	3%													
SB 124	4%													

TABLE VI-C-9

VI-37

LOCATION IS SITE DISCHG.

CHILD DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.05E-01	1.24E-01	2.24E-02	3.13E-03	1.62E-02	1.44E-02	5.31E-03
DRINKING		4.07E-03	3.49E-02	3.12E-02	4.47E-02	2.06E-02	3.08E-02	3.07E-02
SHORELINE	1.32E-04	1.13E-04	1.13E-04	1.13E-04	1.13E-04	1.13E-04	1.13E-04	1.13E-04
SWIMMING	0.0	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06	1.66E-06
BOATING	0.0	8.31E-07	8.31E-07	8.31E-07	8.31E-07	8.31E-07	8.31E-07	8.31E-07
TOTAL	1.32E-04	1.09E-01	1.59E-01	5.37E-02	4.80E-02	3.69E-02	4.53E-02	3.61E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	6.9	1.0	24.00	
DRINKING	510.0	1.0	12.00	
SHORELINE	14.0	1.0	0.0	
SWIMMING	14.0	1.0	0.0	
BOATING	14.0	1.0	0.0	

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 71%	CS 137 59%	CS 137 48%	I 131 84%	CS 137 55%	CS 137 59%	CS 137 8%
		CS 134 27%	CS 134 39%	CS 134 46%	I 133 3%	CS 134 38%	CS 134 37%	NB 95 66%
				CS 136 1%	H 3 11%	CS 136 1%	H 3 2%	CS 134 4%
				Zn 65 1%		ZN 65 2%		MN 54 1%
				H 3 1%		H 3 1%		CS 136 1%
DRINKING		I 131 1%	CS 137 7%	CS 137 1%	I 131 30%	CS 137 1%	CS 137 1%	H 3 98%
		BA 140 3%	CS 134 5%	CS 134 1%	I 133 1%	CS 134 1%	H 3 98%	
		CS 137 68%	H 3 86%	H 3 97%	H 3 67%	H 3 96%		
		CS 134 26%						
SHORELINE	CS 137 57%	CS 137 57%						
	CS 134 20%	CS 134 20%						
	CO 58 1%	CO 58 1%						
	CO 60 18%	CO 60 18%						
SWIM		I 131 3%						
		I 133 1%						
		BA 140 1%						
		RU 1 3 1%						
		CS 137 14%						
		ZR 95 3%						
		NB 95 1%						
		CS 134 22%						
		CO 58 15%						
		MN 54 1%						
		CS 136 5%						
		FE 59 4%						
		ZN 65 2%						
		CO 60 10%						
	LA 140 3%							
	SB 124 4%							

TABLE VI-C-10

VI-33

* * * SELECTED LOCATION * * *

LOCATION IS SITE DISCHG.

I N F A N T D O S E S

PATHWAY	DOSE (MREM PER .5YR INTAKE)							
	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		0.0	0.0	0.0	0.0	0.0	0.0	0.0
DRINKING		8.45E-03	5.65E-02	4.67E-02	8.07E-02	2.06E-02	4.71E-02	4.62E-02
SHORELINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	8.45E-03	5.65E-02	4.67E-02	8.07E-02	2.06E-02	4.71E-02	4.62E-02

PATHWAY	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	0.0	1.0	24.00	
DRINKING	510.0	1.0	12.00	

* * * ISOTOPE CONTRIBUTION * * *

PATHWAY	SKIN		BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI						
DRINKING	I	131	1%	CS	137	11%	H	3	98%	I	131	40%	CS	137	1%	CS	137	1%	H	3	99%
	BA	140	3%	CS	134	6%				I	133	2%	CS	134	1%	H	3	97%			
	CS	137	68%	H	3	61%				H	3	56%	H	3	96%						
	CS	134	26%																		

VI-39

TABLE VI-C-11

* * * FISH CONSUMPTION POPULATION DOSES * * *
MAN-REM

-----SPORTFISH HARVEST-----

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	5.81E+04	3.13E-02	5.30E-02	3.82E-02	9.16E-04	1.82E-02	6.01E-03	7.19E-03
FISH	TEENAGER	9.29E+03	6.62E-03	1.11E-02	4.47E-03	1.54E-04	2.91E-03	1.43E-03	9.95E-04
FISH	CHILD	5.61E+03	1.15E-02	1.35E-02	2.43E-03	2.13E-04	1.76E-03	1.57E-03	5.33E-04
FISH	TOTAL	7.30E+04	4.94E-02	7.76E-02	4.51E-02	1.28E-03	2.29E-02	9.01E-03	8.72E-03

DILUTION CATCH TIME (HR)-INCLUDES FOOD PROCESSING TIME OF 1.68E+02 HR POPULATION=1.28E+04
7.30E+00 3.0E+04 1.69E+02

AVERAGE INDIVIDUAL CONSUMPTION (KG/YR) ADULT=6.90E+00 TEEN=5.20E+00 CHILD=2.20E+00

* * * 75% CONTRIBUTION * * *

AGE GROUP	BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI	
ADULT	CS 137	69%	CS 137	56%	CS 137	51%	I 131	69%	CS 137	55%	CS 137	56%	CS 137	7%
	CS 134	29%	CS 134	40%	CS 134	46%	H 3	30%	CS 134	38%	CS 134	38%	NB 95	72%
			Zn 65	1%					CS 136	1%	H 3	4%	CS 134	5%
									ZN 65	2%			ZN 65	6%
TEENAGER	CS 137	70%	CS 137	56%	CS 137	49%	I 131	77%	CS 137	55%	CS 137	58%	CS 137	8%
	CS 134	28%	CS 134	41%	CS 134	47%	H 3	22%	CS 134	38%	CS 134	38%	NB 95	70%
			ZN 65	1%	CS 136	1%			CS 136	1%	H 3	2%	CS 134	5%
					ZN 65	1%			ZN 65	2%			ZN 65	7%
CHILD	CS 137	72%	CS 137	59%	CS 137	48%	I 131	80%	CS 137	55%	CS 137	59%	CS 137	9%
	CS 134	27%	CS 134	39%	CS 134	46%	H 3	19%	CS 134	38%	CS 134	37%	NB 95	64%
					CS 136	1%			CS 136	1%	H 3	2%	CS 134	5%
					ZN 65	1%			ZN 65	2%			MN 54	1%
				H 3	1%			H 3	1%			FE 59	1%	
												ZN 65	8%	
												H 3	7%	

TABLE V.-D-1

VI-40

* * * FISH CONSUMPTION POPULATION DOSES * * *
MAN-REM

-----COMMERCIAL HARVEST-----

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	3.81E+06	3.40E-03	5.75E-03	4.15E-03	8.37E-05	1.97E-03	6.52E-04	7.47E-04
FISH	TEENAGER	6.09E+05	7.19E-04	1.20E-03	4.85E-04	1.38E-05	3.15E-04	1.55E-04	1.03E-04
FISH	CHILD	3.68E+05	1.24E-03	1.46E-03	2.64E-04	1.88E-05	1.91E-04	1.71E-04	5.56E-05
FISH	TOTAL	4.78E+06	5.36E-03	8.41E-03	4.90E-03	1.16E-04	2.48E-03	9.78E-04	9.06E-04

DILUTION 7.30E+00 CATCH 7.30E+04 TIME (HR)-INCLUDES FOOD PROCESSING TIME OF 2.40E+02 HR POPULATION=8.36E+05

AVERAGE INDIVIDUAL CONSUMPTION (KG/YR) ADULT=8.90E+00 TEEN=5.20E+00 CHILD=2.20E+00

* * * ISOTOPE CONTRIBUTION * * *

AGE GROUP	BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI	
ADULT	CS 137	69%	CS 137	56%	CS 137	51%	I 131	64%	CS 137	55%	CS 137	56%	CS 137	8%
	CS 134	29%	CS 134	40%	CS 134	46%	H 3	35%	CS 134	38%	CS 134	38%	NB 95	71%
			Zn 65	1%					CS 136	1%	H 3	4%	CS 134	5%
									Zn 65	2%			Zn 65	6%
								H 3	1%			H 3	4%	
TEENAGER	CS 137	70%	CS 137	57%	CS 137	49%	I 131	72%	CS 137	55%	CS 137	58%	CS 137	8%
	CS 134	28%	CS 134	40%	CS 134	47%	H 3	27%	CS 134	38%	CS 134	38%	NB 95	69%
			Zn 65	1%	Zn 65	1%			CS 136	1%	H 3	2%	CS 134	5%
									Zn 65	2%			MN 54	1%
								H 3	1%			Zn 65	7%	
												H 3	3%	
CHILD	CS 137	72%	CS 137	59%	CS 137	49%	I 131	76%	CS 137	55%	CS 137	59%	CS 137	9%
	CS 134	27%	CS 134	39%	CS 134	46%	H 3	23%	CS 134	38%	CS 134	37%	NB 95	63%
					CS 136	1%			CS 136	1%	H 3	2%	CS 134	5%
					Zn 65	1%			Zn 65	2%			MN 54	1%
				H 3	1%			H 3	1%			FE 59	1%	
												Zn 65	8%	
												H 3	7%	

-----NEPA DOSES-----

NOTE--TOTAL NEPA DOSE MUST INCLUDE SPORT CATCH. DOSES BELOW ARE FOR COMMERCIAL CATCH ONLY

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	5.81E+04	3.13E-02	5.29E-02	3.81E-02	7.70E-04	1.81E-02	6.00E-03	6.87E-03
FISH	TEENAGER	9.29E+03	6.61E-03	1.10E-02	4.46E-03	1.27E-04	2.90E-03	1.42E-03	9.51E-04
FISH	CHILD	5.61E+03	1.14E-02	1.35E-02	2.42E-03	1.73E-04	1.75E-03	1.57E-03	5.11E-04
FISH	TOTAL	7.30E+04	4.93E-02	7.74E-02	4.50E-02	1.07E-03	2.28E-02	6.99E-03	8.34E-03

TABLE VI-D-2

VI-11

* * * POPULATION WATER CONSUMPTION DOSES * * *

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	ADULT	1.29E+08	8.85E-03	1.79E-01	1.75E-01	2.03E-01	1.70E-01	1.66E-01	1.69E-01
DRINKING	TEENAGER	1.93E+07	1.74E-03	2.22E-02	2.06E-02	2.61E-02	2.53E-02	1.98E-02	1.99E-02
DRINKING	CHILD	2.75E+07	7.11E-03	6.12E-02	5.47E-02	7.61E-02	3.61E-02	5.40E-02	5.37E-02
DRINKING	TOTAL	1.76E+08	1.77E-02	2.62E-01	2.50E-01	3.05E-01	2.31E-01	2.40E-01	2.42E-01

POPULATION=5.29E+05 DILUTION=3.08E+01 TRANSIT TIME=3.06E+01 HR (INCLUDING 24 HR FOR TREATMENT FACILITY)

AVERAGE INDIVIDUAL CONSUMPTION (L/YR) ADULT=3.70E+02 TEEN=2.60E+02 CHILD=2.60E+02

* * * ISOTOPE CONTRIBUTION * * *

AGE GROUP	BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI	
ADULT	BA 140	3%	CS 137	4%	CS 137	2%	I 131	18%	CS 137	1%	H 3	99%	H 3	97%
	CS 137	66%	CS 134	3%	CS 134	2%	H 3	81%	CS 134	1%				
	CS 134	27%	H 3	91%	H 3	94%			H 3	96%				
TEENAGER	BA 140	3%	CS 137	7%	CS 137	2%	I 131	24%	CS 137	1%	CS 137	1%	H 3	97%
	CS 137	67%	CS 134	5%	CS 134	2%	H 3	74%	CS 134	1%	H 3	98%		
	CS 134	27%	H 3	87%	H 3	94%			H 3	96%				
CHILD	BA 140	3%	CS 137	7%	CS 137	1%	I 131	29%	CS 137	1%	CS 137	1%	H 3	98%
	CS 137	68%	CS 134	5%	CS 134	1%	I 133	1%	CS 134	1%	H 3	98%		
	CS 134	26%	H 3	86%	H 3	97%	H 3	69%	H 3	96%				

TABLE VI-D-3

VI-42

VI-43

-----DOSE (MAN-REM)-----														
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI					
DRINKING	ADULT	2.12E+07	1.43E-03	2.90E-02	2.83E-02	3.28E-02	2.74E-02	2.69E-02	2.73E-02					
DRINKING	TEENAGER	3.17E+06	2.82E-04	3.60E-03	3.33E-03	4.22E-03	4.09E-03	3.20E-03	3.22E-03					
DRINKING	CHILD	4.52E+06	1.15E-03	9.90E-03	8.84E-03	1.23E-02	5.84E-03	8.74E-03	8.70E-03					
DRINKING	TOTAL	2.89E+07	2.86E-03	4.25E-02	4.05E-02	4.94E-02	3.74E-02	3.88E-02	3.92E-02					
POPULATION=8.70E+04		DILUTION=3.13E+01		TRANSIT TIME=3.10E+01 HR (INCLUDING 24 HR FOR TREATMENT FACILITY)										
AVERAGE INDIVIDUAL CONSUMPTION (L/YR)		ADULT=3.70E+02		TEEN=2.60E+02		CHILD=2.60E+02								
* * * ISOTOPE CONTRIBUTION * * *														
AGE GROUP		BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI
ADULT														
	BA 140	3%		CS 137	4%	CS 137	2%	I 131	18%	CS 137	1%	H 3	99%	H 3 97%
	CS 137	66%		CS 134	3%	CS 134	2%	H 3	81%	CS 134	1%			
	CS 134	27%		H 3	91%	H 3	94%			H 3	96%			
TEENAGER														
	BA 140	3%		CS 137	7%	CS 137	2%	I 131	24%	CS 137	1%	CS 137	1%	H 3 97%
	CS 137	67%		CS 134	5%	CS 134	2%	H 3	74%	CS 134	1%	H 3	98%	
	CS 134	27%		H 3	87%	H 3	94%			H 3	96%			
CHILD														
	BA 140	3%		CS 137	7%	CS 137	1%	I 131	29%	CS 137	1%	CS 137	1%	H 3 98%
	CS 137	68%		CS 134	5%	CS 134	1%	I 133	1%	CS 134	1%	H 3	98%	
	CS 134	26%		H 3	86%	H 3	97%	H 3	69%	H 3	96%			
-----CUMULATIVE TOTAL-----														
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI					
DRINKING	CUMUL TOTAL	2.05E+08	2.06E-02	3.05E-01	2.91E-01	3.55E-01	2.68E-01	2.79E-01	2.82E-01					
-----HYDROSPHERE TRITIUM DOSE-----														
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI					
WATER	TOTAL	2.20E+00	1.18E-08	1.18E-08	1.18E-08	1.18E-08	1.18E-08	1.18E-08	1.18E-08					

TABLE VI-D-4

* * * RECREATION POLLUTION DOSES * * *

----- DOSE (MAN-REM) -----

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SHORELINE	TOTAL POPUL	4.10E+07	5.29E-02	4.53E-02	4.53E-02

LOCATION- DOWN STREAM

DILUTION=0.73E+01 TRANSIT TIME=0.67E+00 HR SWF=0.2

* * * ISOTOPE CONTRIBUTION * * *

AGE GROUP	SKIN	TOTAL BODY			
ADULT					
	CS 137 57%	CS 137 57%			
	CS 134 20%	CS 134 20%			
	CO 58 1%	CO 58 1%			
	CO 60 18%	CO 60 18%			

----- DOSE (MAN-REM) -----

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SWIMMING	TOTAL POPUL	4.10E+07	0.0	6.66E-04	6.66E-04

LOCATION- DOWN STREAM

DILUTION=0.73E+01 TRANSIT TIME=0.67E+00 HR

* * * ISOTOPE CONTRIBUTION * * *

AGE GROUP	SKIN	TOTAL BODY			
ADULT					
		I 131 3%	CO 58 15%		
		I 133 1%	MN 54 1%		
		BA 140 1%	CS 136 5%		
		RU 13 1%	FE 59 4%		
		CS 137 14%	ZN 65 2%		
		ZR 95 3%	CO 60 10%		
		NB 95 1%	LA 140 3%		
		CS 134 23%	SB 124 4%		

----- DOSE (MAN-REM) -----

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
BOATING	TOTAL POPUL	4.10E+07	0.0	3.33E-04	3.33E-04

LOCATION- DOWN STREAM

DILUTION=0.73E+01 TRANSIT TIME=0.67E+00 HR

TABLE VI-D-5

VI-44

• • • DOSE TO BIOTA • • •

MRADS PER .5YR

ILLUATION=	1.00E+00	TRANSIT TIME=	0.0	HR
FISH		INTERNAL	EXTERNAL	TOTAL
		3.83E-01	3.54E-01	7.37E-01
INVERTEBRATE		2.53E-01	7.08E-01	9.61E-01
ALGAE		3.43E-01	1.04E-03	3.44E-01
MUSKRAT		2.04E+00	2.36E-01	2.27E+00
RACCOON		1.41E-01	1.77E-01	3.18E-01
HERON		9.77E+00	2.36E-01	1.00E+01
DUCK		1.75E+00	3.54E-01	2.10E+00

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	BODY				
FISH	CS 137	45%	MUSKRAT	CS 137	46%
	NB 95	16%		CS 134	30%
	CS 134	23%		ZN 65	18%
	CS 136	4%		H 3	2%
	ZN 65	1%			
H 3	7%				
INVERTEBRATE	CE 141	3%	RACCOON	CS 137	25%
	BA 140	1%		CS 134	17%
	CS 137	3%		MN 54	15%
	CS 134	1%		FE 59	4%
	CO 58	1%		ZN 65	29%
	MN 54	48%	H 3	6%	
	FE 59	11%	HERON	CS 137	56%
	ZN 65	8%		CS 134	40%
	LA 140	5%		CS 136	1%
	H 3	11%			
ALGAE	MO 99	2%	DUCK	CS 137	49%
	CE 141	10%		CS 134	28%
	BA 140	3%		ZN 65	15%
	RU 1 3	1%		H 3	2%
	CS 137	12%			
	ZR 95	3%			
	CS 134	6%			
	CO 58	1%			
	MN 54	4%			
	CS 136	1%			
	FE 59	2%			
	ZN 65	13%			
	LA 140	20%			
	SR 124	6%			
	H 3	8%			

VI-45

TABLE VI-D-6