Omaha Public Power District
Fort Calhoun Station Unit No. 1

Semi Annual Report

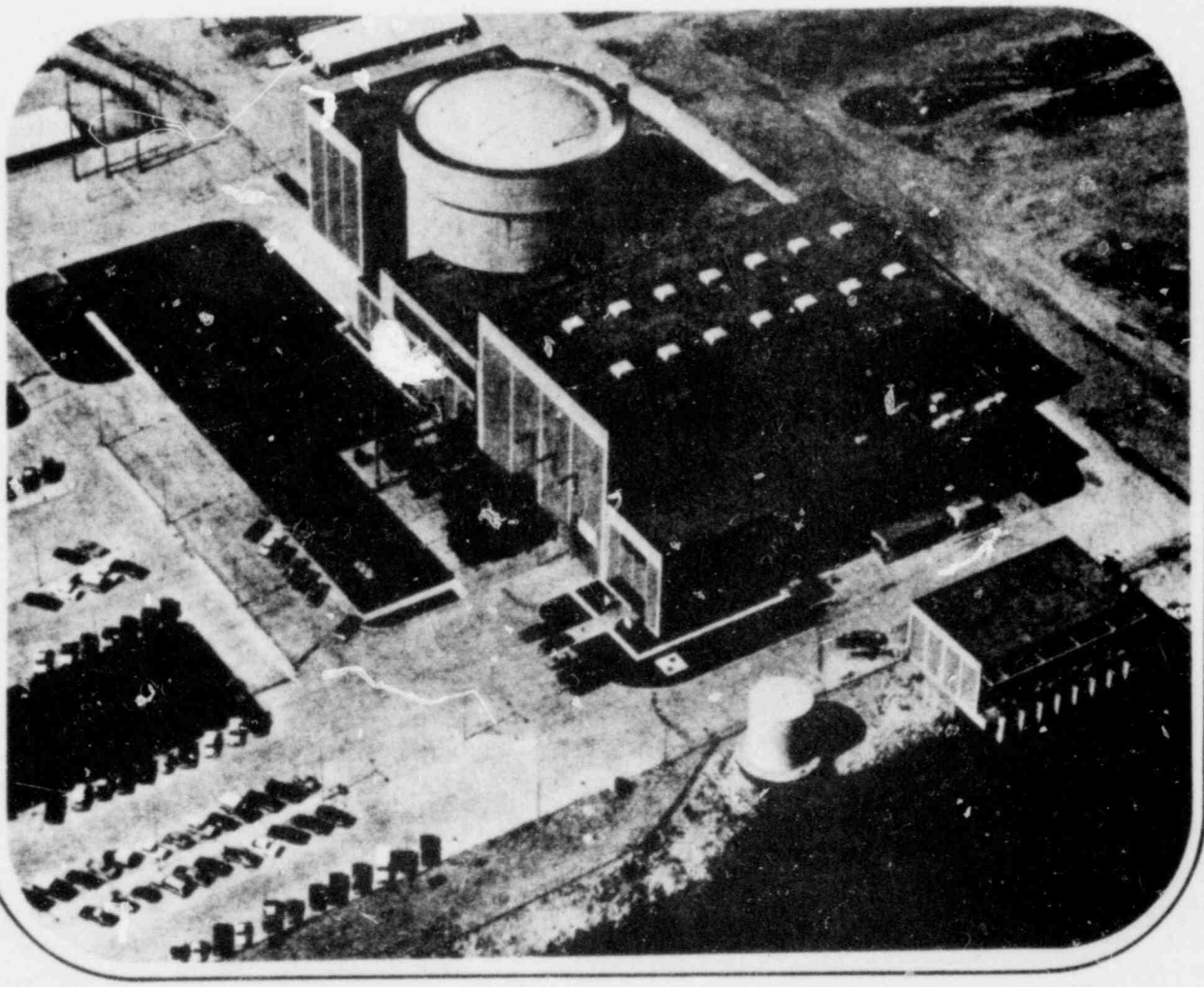
for

Technical Specification

Section 5.9.4

and Appendix B

January 1, 1981 to June 30, 1981 inclusive



Docket No. 50-285 Operating License No. DPR-40

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INTRODUCTION

This report is submitted in accordance with Section 5.9.4 and Appendix B 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, 1981, through June 30, 1981, inclusive.

S. [illegible]. Stevens
Manager
Fort Calhoun Station

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January 1, 1981 to June 30, 1981

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

A. GASEOUS EFFLUENTS

Radioactive gaseous releases for the reporting period totaled 143.0 Curies of inert gases. The highest release rate was 5.68E+01 µCi/sec. or 0.068% of the Technical Specification limit (83,000 µCi/sec.). Averaged over each calendar quarter of the reporting period, the gross gaseous activity release rates were 1.19E+01 µCi/sec. or 0.014% and 6.46E+00 µCi/sec. or 0.008% for each quarter respectively of the maximum release rate of the Technical Specifications (83,000 µCi/sec.). This is 0.090% and 0.049% respectively of the 16% value specified (13,280 µCi/sec.).

Radioactive halogens and particulates with half-lives greater than eight days released during the reporting period totalled 1.54E-04 Curies. The highest release rate for halogens with half-lives greater than eight days was 1.53E-04 µCi/sec. or 0.16% of the maximum release rate of the Technical Specifications (0.094 µCi/sec.). The highest release rate for particulates with half-lives greater than eight days was 2.84E-04 µCi/sec. or 14.2% of the maximum release rate of the Technical Specifications (0.002 µCi/sec.). Averaged over each calendar quarter of the reporting period, the halogen release rates were 1.08E-05 µCi/sec. or 0.01% and 5.33E-06 µCi/sec. or 0.006% for each quarter respectively of the maximum release rate of the Technical Specifications (0.094 µCi/sec.). This is 0.14% and 0.071% respectively of the 8% value specified (0.0075 µCi/sec.). Averaged over each calendar quarter of the reporting period, the particulate release rates

were 1.91E-06 µCi/sec. or 0.10% and 1.66E-06 µCi/sec. or 0.08% for each quarter respectively of the maximum release rate of the Technical Specifications (0.002 µCi/sec.). This is 1.19% and 1.04% respectively of the 8% value specified (1.6E-04 µCi/sec.).

Radioactive tritium released during the reporting period totalled 2.31E+01 Curies. Gross alpha radioactivity released during the reporting period totalled 1.91E-06 Curies.

TABLE 1A

EFFLUENT AND WASTE DISPOSAL REPORT

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 81

		1 QUARTER				2 QUARTER			
NUCLIDES IN CURIES		CONT	DECAY	RMO60	TOTAL	CONT	DECAY	RMO60	TOTAL
A. FISSION&ACTIVATION GASES									
TOTAL RELEASE	CI	[illegible]	[illegible]	0.0	9.22E+01	5.01E+01	6.37E-01	0.0	5.08E+01
AVG RELEASE RATE FOR PERIOD	UCI/SEC	[illegible]	4.11E-02	0.0	1.19E+01	6.38E+00	8.10E-02	0.0	6.46E+00
PERCENT OF LIMIT TECH SPEC = [illegible]		[illegible]	[illegible]	0.0	8.93E-02	4.80E-02	6.10E-04	0.0	4.86E-02
B. IODINES									
TOTAL RELEASE IODINE - 131	CI	0.0	0.0	8.43E-05	8.43E-05	0.0	0.0	4.19E-05	4.19E-05
AVG RELEASE RATE FOR PERIOD	UCI/SEC	0.0	0.0	1.08E-05	1.08E-05	0.0	0.0	5.33E-06	5.33E-06
PERCENT OF LIMIT TECH SPEC = [illegible]		0.0	0.0	1.44E-01	1.44E-01	0.0	0.0	7.09E-02	7.09E-02
C. PARTICULATES									
PARTICULATES WITH HALF LIVES [illegible] DAYS	CI	0.0	0.0	1.48E-05	1.48E-05	0.0	0.0	1.30E-05	1.30E-05
AVG RELEASE RATE FOR PERIOD	UCI/SEC	0.0	0.0	1.91E-06	1.91E-06	0.0	0.0	1.66E-06	1.66E-06
PERCENT OF LIMIT TECH SPEC = .06016		0.0	0.0	1.19E+00	1.19E+00	0.0	0.0	1.04E+00	1.04E+00
GROSS ALPHA RADIOACTIVITY	CI	0.0	0.0	2.52E-07	2.52E-07	0.0	0.0	1.66E-06	1.66E-06
D. TRITIUM									
TOTAL RELEASE	CI	[illegible]	1.1[illegible]E-01	0.0	6.91E+00	1.62E+01	7.39E-03	0.0	1.62E+01
AVG RELEASE RATE FOR PERIOD	UCI/SEC	[illegible]	[illegible]	0.0	8.89E-01	2.06E+00	9.40E-04	0.0	2.06E+00
PERCENT OF LIMIT TECH SPEC = [illegible]									

TABLE 1C

EFFLUENT AND WASTE DISPOSAL REPORT

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

CUMULATIVE FOR JAN THRU JUN 81

	1 QUARTER				2 QUARTER			
NUCLIDES RELEASED	CONT	DECAY	RMOBD	TOTAL	CONT	DECAY	RMOBD	TOTAL
FISSION GASES								
XE133-133	[illegible]	1.13E-01	0.0	8.60E+01	4.49E+01	9.30E-02	0.0	4.50E+01
[illegible]	[illegible]	[illegible]	0.0	5.79E-03	1.29E-02	1.15E-05	0.0	1.29E-02
[illegible]	[illegible]	[illegible]	0.0	1.43E+00	8.15E-01	1.25E-02	0.0	8.28E-01
[illegible]	≤[illegible]	≤1.04E-05	0.0	≤8.17E-03	1.37E-02	≤2.70E-05	0.0	1.37E-02
[illegible]	[illegible]	7.24E-05	0.0	9.38E-01	2.60E-01	3.28E-04	0.0	2.61E-01
[illegible]	[illegible]	≤5.75E-06	0.0	4.73E-01	5.39E-01	≤1.01E-05	0.0	5.39E-01
XE135M-135	≤[illegible]	≤1.41E-05	0.0	≤8.71E-03	9.50E-03	≤2.68E-05	0.0	9.53E-03
XE135-135	≤[illegible]	≤5.38E-05	0.0	≤3.50E-02	≤3.01E-02	≤9.67E-05	0.0	≤3.02E-02
XE137-137	[illegible]	1.99E-01	0.0	2.26E+00	2.84E+00	5.31E-01	0.0	3.37E+00
XE138-138	≤[illegible]	≤1.26E-05	0.0	≤1.06E-02	≤8.73E-03	≤1.95E-05	0.0	≤8.75E-03
XE138-41	1.01E+00	≤3.46E-06	0.0	1.01E+00	6.90E-01	≤5.94E-06	0.0	6.90E-01
TOTAL FOR PERIOD	9.19E+01	3.19E-01	0.0	9.22E+01	5.01E+01	6.37E-01	0.0	5.08E+01
IODINES								
I131-131 CI.	0.0	0.0	8.43E-05	8.43E-05	0.0	0.0	4.19E-05	4.19E-05
I133-133 CI.	0.0	0.0	≤2.85E-06	≤2.85E-06	0.0	0.0	≤4.48E-06	≤4.48E-06
I135-135 CI.	0.0	0.0	≤1.37E-05	≤1.37E-05	0.0	0.0	≤1.22E-05	≤1.22E-05
TOTAL FOR PERIOD	0.0	0.0	1.01E-04	1.01E-04	0.0	0.0	5.86E-05	5.86E-05
PARTICULATES								
SR89-89	0.0	0.0	≤3.39E-08	≤3.39E-08	0.0	0.0	0.0 *	0.0
SR90-90	0.0	0.0	≤3.39E-08	≤3.39E-08	0.0	0.0	0.0 *	0.0
I131-131 PER.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I133-133 PER.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	0.0	≤6.05E-06	≤6.05E-06	0.0	0.0	≤5.44E-06	≤5.44E-06
CS137-137	0.0	0.0	≤3.45E-06	≤3.45E-06	0.0	0.0	≤2.33E-06	≤2.33E-06
CS138-138	0.0	0.0	≤2.90E-06	≤2.90E-06	0.0	0.0	≤2.74E-06	≤2.74E-06
[illegible]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	0.0	≤2.36E-06	≤2.36E-06	0.0	0.0	≤2.51E-06	≤2.51E-06
TOTAL FOR PERIOD	0.0	0.0	1.49E-05	1.48E-05	0.0	0.0	1.30E-05	1.30E-05
TRITIUM								
H3-3	0.0	0.0	2.52E-07	2.52E-07	0.0	0.0	1.66E-06	1.66E-06
H3-3	[illegible]	1.18E-01	0.0	6.91E+00	1.62E+01	7.39E-03	0.0	1.62E+01
GROSS BETA/GAMMA	0.0	0.0	1.23E-05	1.23E-05	0.0	0.0	2.06E-05	2.06E-05

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

SECTION II

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

Table 2-A Liquid Effluents - Summation of All Releases

Table 2-B Liquid Effluents - Summation of All Releases

January 1, 1981 to June 30, 1981

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

B. LIQUID EFFLUENTS

During the six months a total of 5.73E-02 Curies of radioactive liquid materials less tritium and dissolved noble gases were released to the Missouri River at an average concentration of 8.03E-11 µCi/ml. This represents 0.080% of the limits specified in Appendix B to 10CFR Part 20 (1.0E-07 µCi/ml) for unrestricted areas. The maximum concentration of total activity (excluding tritium) released to the unrestricted area and averaged during the release was 3.58E-07 µCi/ml primarily due to the inclusion to dissolved noble gases.

Dilution water during the period amounted to 7.14E+11 liters, while radioactive liquid waste volume was 3.89E+07 liters including 215 batch releases and steam generator blowdown.

Additionally, 207.9 Curies of tritium were discharged at an average concentration of 2.92E-07 µCi/ml or 0.010% of MPC (3.0E-03 µCi/ml).

Gross alpha radioactivity released during the reporting period totalled 2.59E-05 Curies and was discharged at an average concentration of 3.63E-14 µCi/ml or 1.21E-04% of MPC (3.0E-08 µCi/ml).

During the two calendar quarters in the reporting period, 2.35E-02 Curies and 3.38E-02 Curies of radioactive liquids were released. This represents 0.24% and 0.34% of the 10 Curie per calendar quarter specified as the Technical Specification limits.

TABLE 2A

EFFLUENT AND WASTE DISPOSAL REPORT

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 81

			1 QUARTER	2 QUARTER
A. FISSION&ACTIVATION PRODUCTS				
TOTAL RELEASE (NO TRITIUM,GAS,ALPHA)	CI		2.35E-02	3.38E-02
AVG DILUTED CONCENTRATION	UCI/ML		6.58E-11	9.47E-11
PERCENT OF LIMIT TECH SPEC = 3.0E-8	%		2.19E-01	3.16E-01
B. TRITIUM				
TOTAL RELEASE	CI		1.51E+02	4.69E+01
AVG DILUTED CONCENTRATION	UCI/ML		4.52E-07	1.31E-07
PERCENT OF LIMIT TECH SPEC = 3.0E-3	%		1.51E-02	4.37E-03
C. DISSOLVED&ENTRAINED GASES				
TOTAL RELEASE	CI		9.93E-01	8.65E-01
AVG DILUTED CONCENTRATION	UCI/ML		2.7ME-09	2.42E-09
PERCENT OF LIMIT	%			
D. GROSS ALPHA RADIOACTIVITY				
TOTAL RELEASE	CI		1.25E-05	1.34E-05
E. VOLUME OF WASTE RELEASE				
PRIOR TO DIL.	LITERS		2.01E+07	1.88E+07
F. VOLUME OF DILUTION WATER				
THIS PERIOD	LITERS		3.57E+11	3.57E+11

TABLE 2B

EFFLUENT AND WASTE DISPOSAL REPORT

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 81

NUCLIDES IN CURIES	1 QUARTER CONT	1 QUARTER BATCH	2 QUARTER CONT	2 QUARTER BATCH
STRONTIUM-89	≤1.83E-04	≤2.61E-05	0.0	0.0
STRONTIUM-90	≤1.82E-04	≤2.61E-05	0.0	0.0
COBALT-57	≤4.29E-04	≤1.14E-04	≤3.84E-04	9.44E-05
MOLYBDENUM-99	≤3.57E-04	≤8.93E-05	≤3.32E-04	≤7.88E-05
TECHNETIUM-99M	≤1.74E-04	≤4.34E-05	≤1.61E-04	≤3.83E-05
CERIUM-141	≤7.05E-04	≤1.65E-04	≤6.54E-04	≤1.49E-04
TIN-117M	≤5.24E-03	1.04E-04	≤3.29E-04	≤1.05E-04
CHROMIUM-51	≤3.29E-03	≤5.99E-04	≤3.12E-03	≤7.26E-04
IODINE-131	≤4.08E-04	6.60E-04	≤4.06E-04	2.39E-03
IODINE-133	≤4.17E-04	≤8.48E-05	≤3.86E-04	≤9.52E-05
BARIUM-140	≤1.07E-03	1.97E-04	≤1.02E-03	≤2.40E-04
RUTHENIUM-103	≤4.11E-04	≤7.51E-05	≤3.91E-04	≤9.13E-05
CESIUM-137	≤4.91E-04	3.79E-03	4.45E-04	9.75E-03
ZIRCONIUM-95	≤7.28E-04	≤8.81E-05	≤6.43E-04	≤9.37E-05
NIOBIUM-95	≤3.98E-04	≤5.01E-05	≤3.94E-04	≤5.40E-05
CESIUM-134	≤4.34E-04	1.73E-03	≤4.06E-04	5.73E-03
COBALT-58	≤4.35E-04	1.39E-04	≤4.13E-04	5.53E-05
MANGANESE-54	≤3.91E-04	1.29E-04	≤3.67E-04	5.34E-05
CESIUM-136	≤5.64E-04	≤6.57E-05	≤4.99E-04	1.87E-04
IRON-59	≤7.45E-04	≤4.47E-05	≤7.69E-04	≤8.85E-05
ZINC-65	≤1.13E-03	≤1.10E-04	≤1.05E-03	≤1.02E-04
COBALT-60	≤4.03E-04	3.77E-04	≤4.14E-04	1.31E-04
LANTHANUM-140	≤2.86E-04	≤3.40E-05	≤3.85E-04	≤2.47E-05
ANTIMONY-124	≤4.23E-04	≤1.21E-04	≤4.30E-04	≤1.53E-04
TOTAL FOR PERIOD	≤1.26E-02	8.92E-03	1.34E-02	2.04E-02
DISSOLVED GASES				
ENTRAINED GASES				
XENON-133	3.00E-03	9.75E-01	≤1.25E-03	8.63E-01
XENON-135	≤3.51E-04	1.46E-02	≤3.43E-04	9.38E-04
TOTAL FOR PERIOD	3.36E-03	9.90E-01	1.59E-03	8.63E-01
OTHER, ALPHA & TRITIUM				
ALPHA				
TRITIUM	1.15E-05	9.84E-07	1.12E-05	2.17E-06
GROSS BETA/GAMMA	1.29E-02	1.61E+02	4.13E-03	4.69E+01
TOTAL FOR PERIOD	0.0	0.0	0.0	0.0
	1.29E-02	1.61E+02	4.15E-03	4.69E+01
AVG. CONC. IN UCI/ML				
ALPHA				
TRITIUM	2.49E-13	5.67E-13	1.63E-13	1.01E-12
	1.59E-10	7.15E-05	9.71E-11	1.93E-05

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

SECTION III

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

January 1, 1981 to June 30, 1981

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

Technical Specification 5.9.4.a.3

January 1, 1981 thru June 30, 1981

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.	Jan.	0	0	0	NA
	Feb.	1	8.07	1.032	20%
	Mar.	1	4.67	0.363	20%
	Apr.	1	8.07	0.7275	20%
	May	2	13.55	76.846	20%
	June	1	6.16	0.4935	20%
Six Month Total (Type A)		6	40.52	79.462	
b. Dry compressable Waste, contaminated equipment, etc.	Jan.	0	0	0	NA
	Feb.	1	2.55	0.0345	20%
	Mar.	1	13.17	0.2382	20%
	Apr.	1	6.17	0.1098	20%
	May	1	2.55	0.0933	20%
	June	1	9.78	6.5988	20%
Six Month Total (Type B)		5	34.22	7.0746	

A. (Continued)

1. Type of Waste	Month Shipped	Number of Shipments	Volume Cu. Meter	Curie Content	Est. Total % Error
c. Irradiated components and other categories	Jan.	0	0	0	NA
	Feb.	0	0	0	NA
	Mar.	0	0	0	NA
	Apr.	0	0	0	NA
	May	0	0	0	NA
	June	0	0	0	NA
Six Month Total (Type C)		0	0	0	

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

a.	Cs-137	66%	52.44
	Cs-134	34%	27.02
b.	Cs-137	66%	4.67
	Cs-134	34%	2.405

All other Nuclides Less than 0.5% of total composition.

C. SOLID WASTE (DISPOSITION)

Number of Shipments	Transportation Mode	Destination
5	Closed sole use vehicle	Barnwell, S.C.
1	Closed sole use vehicle	Richland, Wash.

D. IRRADIATED FUEL SHIPMENTS (DISPOSITION)

Numoer of Shipments	Tranportation Mode	Destination
0	NA	NA

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, 1981 to June 30, 1981

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 01/01/1981 THROUGH 03/31/1981 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 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 INF	TOTAL	UBAR
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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.3
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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.0
W	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.9
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.	1.	2.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.3

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.2

TABLE 158 - B

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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.	0.	0.0
NE	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.1
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.	0.0
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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.1

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.0

TABLE 158 - C

DATA PEPIOD 01/01/1981 THROUGH 03/31/1981 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 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.	0.	0.0
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	1.	5.3
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.	0.0
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SSW	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.1
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.	1.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	2.	3.7

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.1

TABLE 158 - D

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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. 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.	1.	2.	6.	2.	5.	3.	2.	5.	1.	1.	0.	0.	0.	0.	28.	2.8
NE	0.	2.	2.	4.	3.	8.	6.	6.	2.	4.	9.	1.	0.	0.	0.	47.	3.4
ENE	0.	0.	3.	6.	4.	0.	4.	5.	4.	0.	0.	0.	0.	0.	0.	20.	3.0
E	0.	0.	0.	0.	0.	2.	0.	3.	5.	8.	2.	0.	0.	0.	0.	20.	4.2
ESE	0.	0.	2.	0.	0.	0.	3.	2.	3.	2.	8.	13.	0.	1.	1.	35.	5.2
SE	0.	0.	1.	1.	1.	4.	0.	3.	3.	7.	4.	2.	3.	6.	6.	41.	6.0
SSE	0.	1.	1.	2.	1.	2.	1.	4.	6.	4.	19.	9.	13.	7.	2.	72.	5.7
S	0.	0.	1.	0.	1.	1.	3.	7.	7.	7.	20.	13.	9.	8.	3.	80.	5.7
SSW	0.	1.	0.	0.	0.	2.	1.	5.	6.	10.	10.	8.	13.	7.	5.	68.	6.0
SW	0.	0.	1.	2.	2.	4.	1.	2.	1.	2.	7.	3.	3.	2.	2.	32.	4.8
WSW	0.	1.	0.	0.	1.	0.	1.	4.	1.	1.	3.	4.	1.	2.	1.	20.	5.2
W	0.	0.	1.	0.	3.	3.	5.	0.	7.	4.	3.	6.	3.	0.	1.	36.	4.6
WNW	0.	1.	2.	2.	0.	5.	9.	6.	2.	3.	9.	6.	3.	2.	1.	51.	4.4
NW	2.	1.	1.	1.	2.	3.	4.	4.	8.	12.	33.	26.	21.	15.	2.	135.	5.7
NNW	1.	3.	0.	1.	6.	10.	17.	11.	21.	7.	27.	25.	26.	9.	7.	171.	5.3
N	0.	1.	1.	1.	3.	8.	8.	5.	21.	10.	11.	4.	2.	0.	0.	75.	4.1
TOTAL	3.	12.	18.	20.	29.	57.	66.	69.	102.	82.	166.	120.	97.	59.	31.	931.	5.1

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 43.2

TABLE 158 - E

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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.	2.	10.	4.	3.	4.	3.	1.	1.	0.	0.	0.	0.	0.	0.	28.	1.9
NE	0.	0.	5.	4.	4.	5.	2.	0.	1.	0.	0.	0.	0.	0.	0.	21.	2.2
ENE	0.	1.	2.	1.	1.	5.	0.	3.	0.	0.	0.	0.	0.	0.	0.	13.	2.4
E	0.	0.	1.	1.	5.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	2.0
ESE	0.	2.	3.	7.	0.	10.	3.	0.	0.	1.	0.	0.	0.	0.	0.	26.	2.2
SE	0.	1.	3.	9.	5.	12.	7.	8.	9.	3.	3.	0.	1.	1.	0.	62.	3.1
SSE	0.	2.	6.	6.	6.	7.	1.	2.	13.	3.	4.	2.	2.	0.	0.	54.	3.3
S	1.	3.	1.	2.	6.	5.	2.	7.	0.	7.	14.	8.	4.	3.	6.	69.	4.9
SSW	0.	1.	1.	6.	2.	6.	3.	2.	0.	2.	2.	12.	9.	9.	5.	60.	5.6
SW	1.	2.	5.	0.	6.	4.	4.	1.	4.	1.	3.	1.	3.	1.	1.	37.	3.6
WSW	2.	6.	5.	1.	2.	1.	3.	1.	3.	1.	2.	0.	3.	3.	0.	33.	3.3
W	1.	5.	11.	4.	4.	0.	10.	4.	2.	1.	4.	0.	0.	0.	0.	46.	2.4
WNW	3.	8.	21.	22.	18.	15.	17.	10.	5.	2.	2.	1.	0.	1.	0.	125.	2.3
NW	2.	5.	18.	24.	25.	28.	22.	23.	14.	5.	12.	2.	1.	0.	0.	181.	2.8
NNW	2.	4.	7.	8.	15.	12.	15.	15.	8.	3.	7.	6.	4.	2.	0.	108.	3.3
N	1.	2.	2.	10.	9.	10.	7.	0.	2.	0.	0.	0.	0.	0.	0.	43.	2.2
TOTAL	13.	44.	101.	109.	111.	125.	99.	77.	62.	29.	53.	32.	27.	20.	12.	914.	3.1

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 42.5

TABLE 158 - F

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 = +1.6 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 INF	TOTAL	UBAR
NNE	0.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.1
NE	0.	2.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	1.2
ENE	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.4
E	0.	2.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	1.1
ESE	0.	3.	1.	3.	0.	2.	1.	0.	1.	0.	1.	0.	0.	0.	0.	12.	2.2
SE	0.	1.	2.	2.	1.	1.	2.	0.	1.	0.	0.	0.	0.	0.	0.	10.	2.2
SSE	0.	2.	2.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	1.4
S	1.	2.	1.	1.	2.	0.	1.	0.	1.	1.	0.	2.	0.	0.	0.	12.	2.3
SSW	0.	0.	2.	1.	1.	0.	0.	2.	2.	1.	0.	4.	0.	0.	1.	14.	4.4
SW	0.	0.	4.	0.	1.	0.	3.	1.	1.	3.	2.	2.	4.	2.	1.	24.	4.9
WSW	0.	5.	6.	1.	1.	1.	2.	2.	2.	2.	3.	1.	5.	1.	0.	32.	3.6
W	0.	5.	2.	4.	1.	1.	1.	3.	3.	0.	1.	0.	0.	0.	0.	20.	2.2
WNW	0.	7.	9.	4.	6.	3.	0.	2.	0.	0.	0.	0.	0.	0.	0.	31.	1.6
NW	0.	4.	9.	9.	6.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	30.	1.6
NNW	0.	1.	2.	0.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	5.	1.7
N	0.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.8
TOTAL	2.	40.	47.	33.	21.	9.	12.	10.	10.	7.	7.	9.	9.	3.	2.	221.	2.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 10.3

TABLE 158 - G

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.7
NE	1.	5.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.7
ENE	0.	4.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	0.9
E	1.	5.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	0.9
ESE	0.	2.	2.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	1.3
SE	3.	5.	4.	4.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	14.	1.2
SSE	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.0
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SSW	0.	2.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	1.2
SW	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	2.	3.	0.	0.	0.	6.	5.0
WSW	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	1.	4.	4.0
W	0.	2.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	3.	1.7
WNW	0.	3.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.1
NW	0.	3.	1.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	1.3
NNW	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.5
N	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.6
TOTAL	3.	40.	14.	7.	6.	1.	1.	1.	0.	0.	2.	4.	0.	0.	1.	80.	1.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 3.7

TABLE 158 - ALL

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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.	8.	14.	11.	5.	9.	6.	3.	6.	1.	1.	0.	0.	0.	0.	64.	2.2
NE	1.	9.	11.	10.	8.	13.	8.	6.	3.	4.	10.	1.	0.	0.	0.	84.	2.7
ENE	1.	6.	8.	2.	5.	5.	4.	8.	4.	0.	0.	0.	0.	0.	0.	43.	2.3
E	1.	7.	3.	3.	6.	3.	0.	3.	5.	8.	2.	0.	0.	0.	0.	41.	2.8
ESE	0.	7.	8.	11.	2.	12.	7.	2.	4.	3.	9.	13.	0.	1.	1.	80.	3.4
SE	0.	7.	10.	16.	7.	17.	10.	11.	13.	10.	7.	2.	4.	7.	6.	127.	3.9
SSE	1.	6.	11.	12.	8.	9.	2.	6.	19.	7.	23.	11.	15.	7.	2.	139.	4.3
S	2.	5.	3.	3.	9.	6.	6.	14.	8.	15.	34.	23.	13.	11.	9.	161.	5.1
SSW	0.	4.	3.	7.	5.	8.	4.	9.	8.	13.	12.	24.	22.	16.	11.	146.	5.5
SW	1.	3.	10.	2.	9.	8.	8.	4.	6.	6.	14.	9.	10.	5.	4.	99.	4.4
WSW	2.	14.	11.	2.	5.	2.	6.	7.	6.	4.	8.	6.	9.	6.	2.	90.	3.8
W	1.	13.	15.	8.	8.	4.	16.	8.	11.	5.	8.	6.	3.	0.	1.	107.	3.1
WNW	3.	19.	32.	28.	25.	23.	26.	18.	7.	5.	11.	7.	3.	3.	1.	211.	2.7
NW	4.	13.	29.	34.	34.	33.	27.	27.	22.	17.	45.	28.	22.	15.	2.	352.	3.8
NNW	3.	9.	9.	9.	22.	22.	33.	26.	29.	10.	34.	31.	30.	11.	7.	285.	4.5
N	1.	7.	5.	11.	12.	18.	15.	5.	23.	10.	11.	4.	2.	0.	0.	124.	3.3
TOTAL	21.	137.	182.	169.	170.	192.	178.	157.	174.	118.	229.	165.	133.	82.	46.	2153.	3.8

NUMBER OF INVALID OBSERVATIONS= 7.

PERCENT OF VALID OBSERVATIONS= 99.7

TABLE 159 - A

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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	0.0	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
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	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	1.3
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	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0
WSW	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	0.05	2.0
W	0.0	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	0.09	0.9
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
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	0.05	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	1.3

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.2

TABLE 159 - B

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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	0.0	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	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	2.1
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	0.0	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
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	0.0	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
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	0.0	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
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	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	2.1

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.0

TABLE 159 - C

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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	0.0	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	0.05	0.0	0.0	0.0	0.0	0.05	5.3
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	0.0	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
SSW	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	0.05	2.1
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
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
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	0.0	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
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	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.09	3.7

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.1

TABLE 159 - D

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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	0.05	0.09	0.28	0.09	0.23	0.14	0.09	0.23	0.05	0.05	0.0	0.0	0.0	0.0	1.30	2.8
NE	0.0	0.09	0.09	0.19	0.14	0.37	0.28	0.28	0.09	0.19	0.42	0.05	0.0	0.0	0.0	2.18	3.4
ENE	0.0	0.0	0.14	0.0	0.19	0.0	0.19	0.23	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.93	3.0
E	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.14	0.23	0.37	0.09	0.0	0.0	0.0	0.0	0.93	4.2
ESE	0.0	0.0	0.09	0.0	0.0	0.0	0.14	0.09	0.14	0.09	0.37	0.60	0.0	0.05	0.05	1.63	5.2
SE	0.0	0.0	0.05	0.05	0.05	0.19	0.0	0.14	0.14	0.32	0.19	0.09	0.14	0.28	0.28	1.90	6.0
SSE	0.0	0.05	0.05	0.09	0.05	0.09	0.05	0.19	0.28	0.19	0.88	0.42	0.60	0.32	0.09	3.34	5.7
S	0.0	0.0	0.05	0.0	0.05	0.05	0.14	0.32	0.32	0.32	0.93	0.60	0.42	0.37	0.14	3.72	5.7
SSW	0.0	0.05	0.0	0.0	0.0	0.09	0.05	0.23	0.28	0.46	0.46	0.37	0.60	0.32	0.23	3.16	6.0
SW	0.0	0.0	0.05	0.09	0.09	0.19	0.05	0.09	0.05	0.09	0.32	0.14	0.14	0.09	0.09	1.49	4.8
WSW	0.0	0.05	0.0	0.0	0.05	0.0	0.05	0.19	0.05	0.05	0.14	0.19	0.05	0.09	0.05	0.93	5.2
W	0.0	0.0	0.05	0.0	0.14	0.14	0.23	0.0	0.32	0.19	0.14	0.28	0.14	0.0	0.05	1.67	4.6
WNW	0.0	0.05	0.09	0.09	0.0	0.23	0.42	0.28	0.09	0.14	0.42	0.28	0.14	0.09	0.05	2.37	4.4
NW	0.09	0.05	0.05	0.05	0.09	0.14	0.19	0.19	0.37	0.56	1.53	1.21	0.97	0.70	0.09	6.27	5.7
NNW	0.05	0.14	0.0	0.05	0.28	0.46	0.79	0.51	0.97	0.32	1.25	1.16	1.21	0.42	0.32	7.94	5.3
N	0.0	0.05	0.05	0.05	0.14	0.37	0.37	0.23	0.97	0.46	0.51	0.19	0.09	0.0	0.0	3.48	4.1
TOTAL	0.14	0.56	0.84	0.93	1.35	2.65	3.06	3.20	4.74	3.81	7.71	5.57	4.50	2.74	1.44	43.24	5.1

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 43.2

TABLE 159 - E

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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	0.09	0.46	0.19	0.14	0.19	0.14	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.9
NE	0.0	0.0	0.23	0.19	0.19	0.23	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.97	2.2
ENE	0.0	0.05	0.09	0.05	0.05	0.23	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	2.4
E	0.0	0.0	0.05	0.05	0.23	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	2.0
ESE	0.0	0.09	0.14	0.32	0.0	0.46	0.14	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	1.21	2.2
SE	0.0	0.05	0.14	0.42	0.23	0.56	0.32	0.37	0.42	0.14	0.14	0.0	0.05	0.05	0.0	2.88	3.1
SSE	0.0	0.09	0.28	0.28	0.28	0.32	0.05	0.09	0.60	0.14	0.19	0.09	0.09	0.0	0.0	2.51	3.3
S	0.05	0.14	0.05	0.09	0.28	0.23	0.09	0.32	0.0	0.32	0.65	0.37	0.19	0.14	0.28	3.20	4.9
SSW	0.0	0.05	0.05	0.28	0.09	0.28	0.14	0.09	0.0	0.09	0.09	0.56	0.42	0.42	0.23	2.79	5.6
SW	0.05	0.09	0.23	0.0	0.28	0.19	0.19	0.05	0.19	0.05	0.14	0.05	0.14	0.05	0.05	1.72	3.6
WSW	0.09	0.28	0.23	0.05	0.09	0.05	0.14	0.05	0.14	0.05	0.09	0.0	0.14	0.14	0.0	1.53	3.3
W	0.05	0.23	0.51	0.19	0.19	0.0	0.46	0.19	0.09	0.05	0.19	0.0	0.0	0.0	0.0	2.14	2.4
WNW	0.14	0.37	0.97	1.02	0.84	0.70	0.79	0.46	0.23	0.09	0.09	0.05	0.0	0.05	0.0	5.81	2.3
NW	0.09	0.23	0.84	1.11	1.16	1.30	1.02	1.07	0.65	0.23	0.56	0.09	0.05	0.0	0.0	8.41	2.8
NNW	0.09	0.19	0.32	0.37	0.70	0.56	0.70	0.70	0.37	0.14	0.32	0.28	0.19	0.09	0.0	5.02	3.3
N	0.05	0.09	0.09	0.46	0.42	0.46	0.32	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	2.00	2.2
TOTAL	0.60	2.05	4.69	5.07	5.15	5.81	4.60	3.58	2.88	1.34	2.46	1.49	1.25	0.93	0.56	42.45	3.1

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 42.5

TABLE 159 - F

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 = +1.6 TO +4.0 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	0.09	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	0.19	1.1
NE	0.0	0.09	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	0.32	1.2
ENE	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	0.09	0.4
E	0.0	0.09	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	0.23	1.1
ESE	0.0	0.14	0.05	0.14	0.0	0.09	0.05	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.56	2.2
SE	0.0	0.05	0.09	0.09	0.05	0.05	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.46	2.2
SSE	0.0	0.09	0.09	0.14	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	1.4
S	0.05	0.09	0.05	0.05	0.09	0.0	0.05	0.0	0.05	0.05	0.0	0.09	0.0	0.0	0.0	0.56	2.8
SSW	0.0	0.0	0.09	0.05	0.05	0.0	0.0	0.09	0.09	0.05	0.0	0.19	0.0	0.0	0.05	0.65	4.4
SW	0.0	0.0	0.19	0.0	0.05	0.0	0.14	0.05	0.05	0.14	0.09	0.09	0.19	0.09	0.05	1.11	4.9
WSW	0.0	0.23	0.28	0.05	0.05	0.05	0.09	0.09	0.09	0.09	0.14	0.05	0.23	0.05	0.0	1.49	3.6
W	0.0	0.23	0.09	0.19	0.05	0.05	0.05	0.14	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.93	2.2
WNW	0.0	0.32	0.42	0.19	0.28	0.14	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.44	1.6
NW	0.0	0.19	0.42	0.42	0.28	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.39	1.6
NNW	0.0	0.05	0.09	0.0	0.05	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	1.7
N	0.0	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	0.23	0.8
TOTAL	0.09	1.86	2.18	1.53	0.98	0.42	0.56	0.46	0.46	0.32	0.32	0.42	0.42	0.14	0.09	10.26	2.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 10.3

TABLE 159 - G

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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	0.14	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	0.19	0.7
NE	0.05	0.23	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	0.32	0.7
ENE	0.0	0.19	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	0.37	0.9
E	0.05	0.23	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	0.37	0.9
ESE	0.0	0.09	0.09	0.05	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	1.
SE	0.0	0.23	0.19	0.19	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	1.
SSE	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	0.19	1.0
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
SSW	0.0	0.09	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	0.14	1.2
SW	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.14	0.0	0.0	0.0	0.28	5.0
WSW	0.0	0.09	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	0.19	4.0
W	0.0	0.09	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	0.14	1.7
WNW	0.0	0.14	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	0.19	1.1
NW	0.0	0.14	0.05	0.0	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	1.3
NNW	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	0.05	0.5
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	0.05	0.6
TOTAL	0.14	1.86	0.65	0.32	0.28	0.05	0.05	0.05	0.0	0.0	0.09	0.19	0.0	0.0	0.05	3.71	1.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 3.7

TABLE 159 - ALL

DATA PERIOD 01/01/1981 THROUGH 03/31/1981 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 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	0.37	0.65	0.51	0.23	0.42	0.28	0.14	0.28	0.05	0.05	0.0	0.0	0.0	0.0	2.97	2.2
NE	0.05	0.42	0.51	0.46	0.37	0.60	0.37	0.28	0.14	0.19	0.46	0.05	0.0	0.0	0.0	3.99	2.7
ENE	0.05	0.28	0.37	0.09	0.23	0.23	0.19	0.37	0.19	0.0	0.0	0.0	0.0	0.0	0.0	2.00	2.3
E	0.05	0.32	0.14	0.14	0.28	0.14	0.0	0.14	0.23	0.37	0.09	0.0	0.0	0.0	0.0	1.90	2.8
ESE	0.0	0.32	0.37	0.51	0.09	0.56	0.32	0.09	0.19	0.14	0.42	0.60	0.0	0.05	0.05	3.72	3.4
SE	0.0	0.32	0.46	0.74	0.32	0.79	0.46	0.51	0.60	0.46	0.32	0.09	0.19	0.32	0.28	5.90	3.8
SSE	0.05	0.28	0.51	0.56	0.37	0.42	0.09	0.28	0.88	0.32	1.07	0.51	0.70	0.32	0.09	6.46	4.3
S	0.09	0.23	0.14	0.14	0.42	0.28	0.28	0.65	0.37	0.70	1.58	1.07	0.60	0.51	0.42	7.48	5.1
SSW	0.0	0.19	0.14	0.32	0.23	0.37	0.19	0.42	0.37	0.60	0.56	1.11	1.02	0.74	0.51	6.78	5.5
SW	0.05	0.14	0.46	0.09	0.42	0.37	0.37	0.19	0.28	0.28	0.65	0.42	0.46	0.23	0.19	4.60	4.4
WSW	0.09	0.65	0.51	0.09	0.23	0.09	0.28	0.32	0.28	0.19	0.37	0.28	0.42	0.28	0.09	4.18	3.8
W	0.05	0.60	0.70	0.37	0.37	0.19	0.74	0.37	0.51	0.23	0.37	0.28	0.14	0.0	0.05	4.97	3.1
WNW	0.14	0.88	1.49	1.30	1.16	1.07	1.21	0.84	0.32	0.23	0.51	0.32	0.14	0.14	0.05	9.80	2.7
NW	0.19	0.60	1.35	1.58	1.58	1.53	1.25	1.25	1.02	0.79	2.09	1.30	1.02	0.70	0.09	16.35	3.8
NNW	0.14	0.42	0.42	0.42	1.02	1.02	1.53	1.21	1.35	0.46	1.58	1.44	1.39	0.51	0.32	13.24	4.5
N	0.05	0.32	0.23	0.51	0.56	0.84	0.70	0.23	1.07	0.46	0.51	0.19	0.09	0.0	0.0	5.76	3.3
TOTAL	0.97	6.36	8.45	7.85	7.90	8.92	8.27	7.29	8.08	5.48	10.63	7.66	6.18	3.81	2.14	100.00	3.8

NUMBER OF INVALID OBSERVATIONS= 7.

PERCENT OF VALID OBSERVATIONS= 99.7

TABLE 158 - A

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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 INF	TOTAL	UBAR
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.	1.	0.	0.	0.	0.	0.	1.	4.5
SSE	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
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.	1.	0.	0.	0.	0.	0.	1.	4.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.0

TABLE 158 - B

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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.	1.	0.	0.	0.	0.	0.	0.	1.	4.3
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.	0.0
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	1.	0.	3.	7.3
SSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	2.	3.	9.7
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.	1.	0.	0.	0.	1.	6.4
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.	1.	0.	0.	2.	2.	1.	2.	8.	7.7

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.4

TABLE 158 - C

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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.	1.	0.	0.	0.	0.	0.	1.	4.7
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.	1.	2.	1.	0.	4.	7.5
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	3.	2.	2.	8.	17.	8.3
SSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.	1.	9.	13.	9.9
SW	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
W	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
NW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	1.	0.	0.	2.	6.1
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.	1.	0.	0.	0.	0.	0.	1.	4.5
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	3.	5.	7.	4.	17.	38.	8.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 1.8

TABLE 158 - D

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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.	1.	5.	5.	10.	10.	5.	3.	2.	0.	0.	0.	0.	41.	3.4
NE	0.	0.	1.	2.	8.	3.	1.	2.	6.	0.	0.	0.	0.	0.	0.	23.	2.8
ENE	0.	0.	1.	2.	6.	2.	3.	4.	1.	2.	0.	0.	0.	0.	0.	25.	2.8
E	0.	0.	0.	6.	6.	2.	8.	5.	2.	7.	1.	0.	0.	0.	0.	40.	4.2
ESE	0.	0.	1.	3.	0.	0.	2.	3.	8.	6.	4.	8.	0.	0.	0.	41.	4.6
SE	0.	0.	1.	1.	3.	2.	8.	5.	2.	4.	10.	6.	0.	1.	0.	61.	4.9
SSE	0.	0.	0.	5.	2.	0.	2.	3.	2.	17.	9.	11.	4.	1.	0.	153.	5.3
S	0.	0.	0.	1.	2.	2.	3.	10.	8.	8.	39.	22.	14.	9.	3.	139.	6.1
SSW	0.	0.	0.	2.	5.	10.	7.	9.	14.	6.	26.	31.	20.	14.	6.	82.	6.7
SW	0.	0.	1.	1.	0.	5.	0.	4.	5.	4.	7.	22.	5.	11.	24.	32.	5.0
WSW	0.	0.	2.	1.	1.	0.	2.	4.	5.	3.	5.	4.	3.	1.	17.	23.	3.5
W	0.	0.	1.	0.	0.	4.	1.	2.	4.	3.	3.	1.	0.	0.	2.	21.	3.3
WNW	0.	0.	0.	4.	2.	4.	7.	1.	1.	3.	2.	0.	0.	0.	0.	34.	3.6
NW	0.	0.	1.	3.	1.	1.	4.	6.	3.	0.	7.	1.	0.	0.	0.	61.	4.6
NNW	0.	0.	1.	2.	3.	4.	6.	4.	4.	1.	12.	0.	0.	0.	0.	119.	4.0
N	0.	0.	1.	2.	2.	6.	5.	9.	4.	4.	14.	1.	4.	0.	0.	100.	3.5
TOTAL	0.	0.	0.	9.	6.	9.	18.	24.	14.	11.	12.	0.	0.	0.	0.	995.	4.8
			10.	8.	6.	15.	15.	23.	19.	5.	7.	0.	5.	1.	0.		
				49.	50.	72.	92.	120.	102.	80.	150.	125.	55.	38.	52.		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 45.6

TABLE 158 - E

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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.	1.	4.	16.	8.	6.	1.	0.	2.	0.	0.	0.	0.	0.	0.	38.	2.0
NE	0.	1.	7.	6.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	18.	1.6
ENE	0.	0.	5.	5.	5.	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.	1.9
E	0.	3.	7.	10.	7.	6.	3.	2.	3.	2.	0.	0.	0.	0.	0.	43.	2.2
ESE	0.	2.	7.	8.	12.	13.	3.	3.	8.	1.	2.	0.	0.	0.	0.	59.	2.6
SE	0.	0.	9.	16.	17.	16.	16.	14.	4.	5.	3.	1.	0.	0.	0.	101.	2.8
SSE	0.	1.	6.	7.	5.	9.	9.	12.	8.	11.	9.	7.	0.	0.	0.	84.	3.6
S	0.	3.	1.	1.	2.	1.	7.	12.	9.	4.	13.	6.	3.	6.	0.	68.	4.6
SSW	0.	1.	1.	1.	1.	0.	0.	4.	3.	5.	6.	5.	5.	4.	1.	37.	5.4
SW	0.	2.	3.	1.	1.	0.	1.	2.	0.	1.	0.	2.	1.	0.	0.	14.	3.1
WSW	0.	4.	2.	4.	2.	1.	0.	0.	0.	1.	0.	0.	0.	0.	0.	14.	1.6
W	0.	7.	8.	4.	4.	4.	0.	1.	1.	2.	2.	0.	0.	0.	0.	33.	2.1
WNW	0.	7.	23.	15.	12.	8.	2.	2.	0.	1.	1.	0.	0.	0.	0.	71.	1.8
NW	0.	5.	20.	29.	23.	12.	4.	2.	0.	0.	1.	0.	0.	0.	0.	96.	1.9
NNW	0.	3.	15.	19.	29.	13.	14.	6.	1.	0.	0.	0.	0.	0.	0.	100.	2.2
N	0.	2.	9.	23.	19.	18.	9.	7.	0.	0.	0.	0.	0.	0.	0.	87.	2.2
TOTAL	0.	42.	127.	165.	149.	114.	69.	67.	39.	33.	37.	21.	9.	10.	1.	883.	2.6

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 40.4

TABLE 158 - F

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 = +1.6 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 INF	TOTAL	UBAR
NNE	0.	0.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.4
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
ENE	0.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	1.0
E	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	1.7
ESE	0.	2.	5.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.	1.1
SE	0.	5.	7.	3.	4.	3.	3.	4.	0.	0.	0.	0.	0.	0.	0.	29.	2.0
SSE	0.	4.	4.	1.	2.	4.	3.	3.	1.	0.	1.	0.	0.	0.	0.	23.	2.3
S	0.	3.	1.	1.	0.	1.	1.	4.	1.	2.	0.	0.	0.	0.	0.	14.	2.8
SSW	0.	4.	1.	1.	0.	3.	0.	2.	1.	1.	0.	1.	2.	0.	0.	16.	3.2
SW	0.	7.	1.	0.	1.	2.	0.	1.	0.	0.	1.	0.	1.	0.	0.	14.	2.2
WSW	0.	3.	1.	1.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	1.4
W	1.	8.	4.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.	0.8
WNW	0.	10.	15.	11.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	37.	1.2
NW	0.	4.	15.	9.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	32.	1.4
NNW	0.	1.	4.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	1.2
N	0.	1.	1.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	1.5
TOTAL	1.	53.	63.	36.	14.	16.	7.	14.	3.	3.	2.	1.	3.	0.	0.	216.	1.8

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 9.9

TABLE 158 - G

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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.	0.	0.0
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
ENE	0.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.8
E	0.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.7
ESE	0.	0.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	1.6
SE	0.	3.	3.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.	1.1
SSE	0.	5.	2.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	1.0
S	0.	1.	1.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	3.	1.9
SSW	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	1.	3.6
SW	0.	0.	1.	0.	0.	0.	0.	0.	0.	1.	1.	1.	0.	0.	0.	4.	4.5
WSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
W	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.4
WNW	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.6
NW	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.1
NNW	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.4
N	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.1
TOTAL	0.	17.	13.	4.	2.	1.	0.	1.	1.	1.	1.	1.	0.	0.	0.	42.	1.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 1.9

TABLE 158 - ALL

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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.	1.	6.	19.	13.	11.	11.	10.	8.	4.	2.	0.	0.	0.	0.	85.	2.7
NE	0.	1.	8.	8.	10.	5.	1.	2.	6.	0.	0.	0.	0.	0.	0.	41.	2.3
ENE	0.	4.	9.	11.	11.	7.	3.	4.	1.	2.	1.	0.	0.	0.	0.	53.	2.2
E	0.	5.	9.	15.	7.	8.	11.	7.	5.	9.	4.	8.	0.	0.	0.	88.	3.1
ESE	0.	4.	14.	12.	16.	13.	5.	6.	16.	7.	12.	6.	0.	1.	0.	112.	3.2
SE	0.	8.	19.	27.	23.	21.	22.	28.	11.	10.	12.	12.	4.	1.	3.	201.	3.2
SSE	0.	10.	12.	9.	12.	24.	19.	24.	23.	28.	49.	30.	16.	10.	6.	272.	4.4
S	0.	7.	3.	4.	2.	7.	8.	20.	16.	14.	41.	41.	26.	23.	32.	274.	6.0
SSW	0.	5.	3.	3.	2.	3.	2.	11.	9.	12.	13.	29.	15.	16.	29.	152.	6.3
SW	0.	9.	7.	2.	2.	6.	2.	5.	4.	5.	7.	7.	5.	1.	2.	64.	3.9
WSW	0.	7.	4.	5.	7.	5.	7.	1.	1.	4.	3.	1.	0.	0.	0.	45.	2.6
W	1.	15.	12.	9.	6.	5.	4.	7.	4.	2.	4.	0.	0.	0.	0.	69.	2.2
WNW	0.	19.	39.	29.	15.	13.	8.	6.	4.	2.	8.	1.	0.	0.	0.	144.	2.0
NW	0.	9.	37.	40.	28.	19.	9.	11.	4.	4.	14.	13.	5.	0.	0.	193.	2.7
NNW	0.	5.	20.	28.	35.	23.	32.	30.	15.	11.	14.	7.	5.	1.	0.	226.	3.1
N	0.	3.	11.	33.	26.	33.	24.	30.	19.	6.	9.	0.	0.	0.	0.	194.	2.9
TOTAL	1.	112.	213.	254.	215.	203.	168.	202.	146.	120.	193.	155.	76.	53.	72.	2183.	3.6

NUMBER OF INVALID OBSERVATIONS= 1.

PERCENT OF VALID OBSERVATIONS= 100.0

TABLE 159 - A

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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	0.0	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
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	0.04	0.0	0.0	0.0	0.0	0.0	0.04	4.5
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
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	0.0	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
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	0.0	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
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	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.04	4.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.0

TABLE 159 - B

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.05	4.3
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	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	0.0	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	0.05	0.05	0.04	0.0	0.14	7.3
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	0.05	0.0	0.09	0.14	9.7
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
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
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	0.0	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	0.05	0.0	0.0	0.0	0.05	6.4
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	0.0	0.05	0.0	0.0	0.09	0.09	0.04	0.09	0.37	7.7

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.4

TABLE 159 - C

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.05	4.7
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	0.05	0.09	0.05	0.0	0.18	7.5
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.14	0.09	0.09	0.37	0.78	8.3
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.09	0.05	0.18	0.59	9.9
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
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
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	0.0	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	0.05	0.0	0.04	0.0	0.0	0.09	6.1
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	0.05	0.0	0.0	0.0	0.0	0.0	0.05	4.5
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.14	0.23	0.32	0.18	0.78	1.74	8.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 1.8

TABLE 159 - D

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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	0.05	0.23	0.23	0.46	0.46	0.23	0.14	0.09	0.0	0.0	0.0	0.0	1.88	3.4
NE	0.0	0.0	0.05	0.09	0.37	0.14	0.05	0.09	0.27	0.0	0.0	0.0	0.0	0.0	0.0	1.05	2.8
ENE	0.0	0.0	0.0	0.27	0.27	0.09	0.14	0.18	0.05	0.09	0.05	0.0	0.0	0.0	0.0	1.14	2.8
E	0.0	0.0	0.05	0.14	0.0	0.09	0.37	0.23	0.09	0.32	0.18	0.37	0.0	0.0	0.0	1.83	4.2
ESE	0.0	0.0	0.05	0.05	0.14	0.0	0.09	0.14	0.37	0.27	0.46	0.27	0.0	0.05	0.0	1.88	4.6
SE	0.0	0.0	0.0	0.23	0.09	0.09	0.14	0.46	0.32	0.18	0.41	0.50	0.18	0.05	0.14	2.79	4.9
SSE	0.0	0.0	0.0	0.05	0.23	0.46	0.32	0.41	0.64	0.78	1.79	1.01	0.64	0.41	0.27	7.01	5.3
S	0.0	0.0	0.0	0.09	0.0	0.23	0.0	0.18	0.23	0.37	1.19	1.42	0.92	0.64	1.10	6.37	6.7
SSW	0.0	0.0	0.05	0.05	0.05	0.0	0.09	0.18	0.23	0.27	0.32	1.01	0.23	0.50	0.78	3.76	6.7
SW	0.0	0.0	0.09	0.05	0.0	0.18	0.05	0.09	0.18	0.14	0.23	0.18	0.14	0.05	0.09	1.47	5.0
WSW	0.0	0.0	0.05	0.0	0.09	0.18	0.32	0.05	0.05	0.14	0.14	0.05	0.0	0.0	0.0	1.05	3.5
W	0.0	0.0	0.0	0.18	0.05	0.05	0.18	0.27	0.14	0.0	0.09	0.0	0.0	0.0	0.0	0.96	3.3
WNW	0.0	0.0	0.05	0.14	0.14	0.18	0.27	0.18	0.18	0.05	0.32	0.05	0.0	0.0	0.0	1.56	3.6
NW	0.0	0.0	0.05	0.09	0.09	0.27	0.23	0.41	0.18	0.18	0.55	0.55	0.18	0.0	0.0	2.77	4.6
NNW	0.0	0.0	0.05	0.41	0.27	0.41	0.82	1.10	0.64	0.50	0.64	0.32	0.23	0.05	0.0	5.45	4.0
N	0.0	0.0	0.0	0.37	0.27	0.69	0.69	1.05	0.87	0.23	0.41	0.0	0.0	0.0	0.0	4.58	3.5
TOTAL	0.0	0.0	0.46	2.25	2.29	3.30	4.21	5.50	4.67	3.66	6.87	5.73	2.52	1.74	2.38	45.58	4.8

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 45.6

TABLE 159 - E

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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	0.05	0.18	0.73	0.37	0.27	0.05	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	1.74	2.0
NE	0.0	0.05	0.32	0.27	0.09	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.82	1.6
ENE	0.0	0.0	0.23	0.23	0.23	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92	1.9
E	0.0	0.14	0.32	0.46	0.32	0.27	0.14	0.09	0.14	0.09	0.0	0.0	0.0	0.0	0.0	1.97	2.2
ESE	0.0	0.09	0.32	0.37	0.55	0.60	0.14	0.14	0.37	0.05	0.09	0.0	0.0	0.0	0.0	2.70	2.6
SE	0.0	0.0	0.41	0.73	0.78	0.73	0.73	0.64	0.18	0.23	0.14	0.05	0.0	0.0	0.0	4.63	2.8
SSE	0.0	0.05	0.27	0.32	0.23	0.41	0.41	0.55	0.37	0.50	0.41	0.32	0.0	0.0	0.0	3.85	3.6
S	0.0	0.14	0.05	0.05	0.09	0.05	0.32	0.55	0.41	0.18	0.59	0.27	0.14	0.27	0.0	3.11	4.6
SSW	0.0	0.05	0.05	0.05	0.05	0.0	0.0	0.18	0.14	0.23	0.27	0.23	0.23	0.18	0.05	1.69	5.4
SW	0.0	0.09	0.14	0.05	0.05	0.0	0.05	0.09	0.0	0.05	0.0	0.09	0.05	0.0	0.0	0.64	3.1
WSW	0.0	0.18	0.09	0.18	0.09	0.05	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.64	1.6
W	0.0	0.32	0.37	0.18	0.18	0.18	0.0	0.05	0.05	0.09	0.09	0.0	0.0	0.0	0.0	1.51	2.1
WNW	0.0	0.32	1.05	0.69	0.55	0.37	0.09	0.09	0.0	0.05	0.05	0.0	0.0	0.0	0.0	3.25	1.8
NW	0.0	0.23	0.92	1.33	1.05	0.55	0.18	0.09	0.0	0.0	0.05	0.0	0.0	0.0	0.0	4.40	1.9
NNW	0.0	0.14	0.69	0.87	1.33	0.60	0.	0.27	0.05	0.0	0.0	0.0	0.0	0.0	0.0	4.58	2.2
N	0.0	0.09	0.41	1.05	0.87	0.82	0.4	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.98	2.2
TOTAL	0.0	1.92	5.82	7.56	6.82	5.22	3.16	3.07	1.78	1.51	1.70	0.96	0.41	0.46	0.05	40.45	2.6

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 40.4

TABLE 159 - F

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 = +1.6 TO +4.0 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	0.09	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	1.4
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
ENE	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	0.14	1.0
E	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	0.09	1.7
ESE	0.0	0.09	0.23	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	1.1
SE	0.0	0.23	0.32	0.14	0.18	0.14	0.14	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.33	2.0
SSE	0.0	0.18	0.18	0.05	0.09	0.18	0.14	0.14	0.05	0.0	0.05	0.0	0.0	0.0	0.0	1.05	2.3
S	0.0	0.14	0.05	0.05	0.0	0.05	0.05	0.18	0.05	0.09	0.0	0.0	0.0	0.0	0.0	0.64	2.8
SSW	0.0	0.18	0.05	0.05	0.0	0.14	0.0	0.09	0.05	0.05	0.0	0.05	0.09	0.0	0.0	0.73	3.2
SW	0.0	0.32	0.05	0.0	0.05	0.09	0.0	0.05	0.0	0.0	0.05	0.0	0.05	0.0	0.0	0.64	2.2
WSW	0.0	0.14	0.05	0.05	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	1.4
W	0.05	0.37	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	0.64	0.8
WNW	0.0	0.46	0.69	0.50	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.69	1.2
NW	0.0	0.18	0.69	0.41	0.14	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.47	1.4
NNW	0.0	0.05	0.18	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	1.2
N	0.0	0.05	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	0.23	1.5
TOTAL	0.05	2.43	2.89	1.65	0.64	0.73	0.32	0.64	0.14	0.14	0.09	0.05	0.14	0.0	0.0	9.89	1.8

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 9.9

TABLE 159 - G

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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	0.0	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
ENE	0.0	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	0.23	0.8
E	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	0.14	0.7
ESE	0.0	0.0	0.05	0.05	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.6
SE	0.0	0.14	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	0.41	1.1
SSE	0.0	0.23	0.09	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	1.0
S	0.0	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.9
SSW	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	3.6
SW	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.04	0.0	0.0	0.0	0.18	4.5
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
W	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	0.05	2.4
WNW	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	0.09	0.6
NW	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	0.05	1.1
NNW	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	0.05	0.4
N	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	0.05	1.1
TOTAL	0.0	0.78	0.60	0.18	0.09	0.05	0.0	0.05	0.04	0.05	0.05	0.04	0.0	0.0	0.0	1.92	1.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 1.9

TABLE 159 - ALL

DATA PERIOD 04/01/1981 THROUGH 06/30/1981 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 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	0.05	0.27	0.87	0.60	0.50	0.50	0.46	0.37	0.18	0.09	0.0	0.0	0.0	0.0	3.89	2.7
NE	0.0	0.05	0.37	0.37	0.46	0.23	0.05	0.09	0.27	0.0	0.0	0.0	0.0	0.0	0.0	1.88	2.3
ENE	0.0	0.18	0.41	0.50	0.50	0.32	0.14	0.18	0.05	0.09	0.05	0.0	0.0	0.0	0.0	2.43	2.2
E	0.0	0.23	0.41	0.69	0.32	0.37	0.50	0.32	0.23	0.41	0.18	0.37	0.0	0.0	0.0	4.03	3.1
ESE	0.0	0.18	0.64	0.55	0.73	0.59	0.23	0.27	0.73	0.32	0.55	0.27	0.0	0.05	0.0	5.13	3.2
SE	0.0	0.37	0.87	1.24	1.05	0.96	1.01	1.28	0.50	0.46	0.55	0.55	0.18	0.05	0.14	9.21	3.2
SSE	0.0	0.46	0.55	0.41	0.55	1.10	0.87	1.10	1.05	1.28	2.24	1.37	0.73	0.46	0.27	12.46	4.4
S	0.0	0.32	0.14	0.18	0.09	0.32	0.37	0.92	0.73	0.64	1.88	1.88	1.19	1.05	1.47	11.18	6.0
SSW	0.0	0.23	0.14	0.14	0.09	0.14	0.09	0.50	0.41	0.55	0.60	1.33	0.69	0.73	1.33	6.96	6.3
SW	0.0	0.41	0.32	0.09	0.09	0.27	0.09	0.23	0.18	0.23	0.32	0.32	0.23	0.05	0.09	2.93	3.9
WSW	0.0	0.32	0.18	0.23	0.32	0.23	0.32	0.05	0.05	0.18	0.14	0.05	0.0	0.0	0.0	2.06	2.6
W	0.05	0.69	0.55	0.41	0.27	0.23	0.18	0.32	0.18	0.09	0.18	0.0	0.0	0.0	0.0	3.16	2.2
WNW	0.0	0.87	1.79	1.33	0.69	0.60	0.37	0.27	0.18	0.09	0.27	0.05	0.0	0.0	0.0	6.60	2.0
NW	0.0	0.41	1.69	1.83	1.28	0.87	0.41	0.50	0.18	0.18	0.64	0.60	0.23	0.0	0.0	8.84	2.7
NNW	0.0	0.23	0.92	1.28	1.60	1.05	1.47	1.37	0.69	0.50	0.64	0.32	0.23	0.05	0.0	10.35	3.1
N	0.0	0.14	0.50	1.51	1.19	1.51	1.10	1.37	0.87	0.27	0.41	0.0	0.0	0.0	0.0	8.89	2.9
TOTAL	0.05	5.13	9.76	11.63	9.85	9.30	7.69	9.25	6.69	5.50	8.84	7.10	3.48	2.43	3.30	100.00	3.6

NUMBER OF INVALID OBSERVATIONS= 1.

PERCENT OF VALID OBSERVATIONS= 100.0

RELEASE NUMBER 81001 CONTAINMENT PURGE

STARTING TIME JAN 2,1981 HOUR 15 MINUTE 53

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
15	17.0	206.5	-0.9
16	15.3	211.7	-0.8
17	10.8	220.8	-0.5
18	8.4	210.7	-0.0
19	8.9	206.9	1.6
20	12.9	224.1	2.5
21	11.3	266.8	2.2
22	9.2	321.7	0.4
23	9.8	325.6	0.2
24	13.1	344.9	-0.2
1	10.8	359.0	-0.8
2	9.3	358.6	-0.9
3	8.9	351.8	-1.0
4	12.3	356.4	-1.0
5	11.0	0.0	-0.9
6	9.6	357.4	-1.0
7	10.1	1.6	-0.9
8	9.2	1.9	-0.9
9	8.9	357.0	-1.0
10	9.7	358.4	-1.0
11	8.2	3.0	-0.9
12	8.4	3.8	-0.6
13	6.7	2.1	-0.3
14	7.1	0.7	-0.3
15	6.9	0.5	-0.2
16	6.2	2.2	0.5
17	6.1	6.6	-0.3
18	3.7	13.3	-1.2
19	2.2	295.4	-1.0
20	2.0	290.5	-1.0
21	1.7	46.9	-0.6
22	4.8	87.0	-0.3
23	5.4	86.3	-1.0
24	5.4	93.7	-1.1
1	4.1	146.8	-0.9
2	4.0	147.9	-0.7
3	5.8	142.6	-1.0
4	5.7	134.8	-0.7
5	6.1	125.0	-1.0
6	8.1	119.1	-0.8
7	9.8	124.5	-0.9
8	10.3	126.7	-0.9
9	10.4	127.2	-0.8
10	11.1	132.0	-0.5
11	11.1	138.4	-0.8
12	10.8	140.0	-0.5
13	8.4	143.7	-0.3
14	8.3	135.4	-0.3
15	9.0	141.1	-0.3

16	9.8	146.8	-0.5
17	9.4	146.1	-0.7
18	6.0	152.5	-0.7
19	4.1	148.4	-0.2
20	5.7	138.2	0.5
21	6.4	147.2	0.1
22	7.2	142.0	0.2
23	9.1	147.4	-0.5
24	9.5	155.1	-0.8
1	8.8	162.9	-0.5
2	9.6	166.0	-0.7
3	11.1	170.1	-0.6
4	11.3	175.9	-0.8
5	15.3	184.5	-0.7
6	15.6	187.0	-0.5
7	13.9	185.8	-0.7
8	10.6	181.6	-0.5

STOP TIME JAN 5,1981 HOUR 7 MINUTE 48

RELEASE NUMBER 81002 CONTAINMENT PURGE

STARTING TIME JAN 8,1981 HOUR 17 MINUTE 30

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	3.0	29.0	-0.8
18	3.0	109.3	-1.2
19	3.0	147.0	-0.9
20	2.2	176.7	-1.0
21	1.8	136.8	-0.2
22	2.9	156.2	-0.3
23	1.9	178.2	-0.2
24	4.7	229.2	-0.4
1	8.4	236.7	0.4
2	2.7	321.7	-0.5
3	3.8	343.4	-0.6
4	3.7	5.0	-0.3
5	4.7	1.2	-0.8
6	5.7	343.9	-0.7
7	6.0	346.1	-0.6
8	5.5	333.4	-0.6
9	7.2	348.0	-0.8
10	9.1	354.0	-0.8
11	10.5	355.0	-0.8
12	10.7	357.5	-0.7
13	11.4	354.1	-0.9
14	9.4	357.1	-0.8
15	10.9	351.0	-0.7
16	10.1	1.2	-0.6
17	9.5	1.0	-0.7
18	7.1	360.0	-0.9
19	5.9	2.0	-0.9
20	5.3	354.2	-1.0
21	5.8	332.0	0.1
22	3.7	303.4	0.5
23	3.7	305.1	0.5
24	3.4	306.9	0.4
1	2.9	305.7	0.1
2	2.9	298.6	-0.4
3	2.2	281.9	-0.1
4	1.6	276.8	-0.5
5	1.7	239.9	-0.7
6	2.6	154.6	-0.2
7	3.1	157.4	0.4

STOP TIME JAN 10,1981 HOUR 6 MINUTE 13

STARTING TIME JAN 10,1981 HOUR 11 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
11	11.5	191.7	-1.1
12	13.6	204.0	-1.1
13	12.6	174.8	-1.0
14	13.2	171.9	-1.0
15	9.8	183.6	-0.9
16	9.4	183.6	-0.8
17	7.8	182.0	-0.7
18	6.3	138.2	0.1
19	5.0	136.8	0.0
20	5.0	125.1	-0.4
21	4.7	61.8	-0.7
22	6.7	55.4	-0.9
23	6.7	40.3	-0.8
24	7.9	37.6	-1.0
1	6.7	34.3	-0.8
2	5.2	14.8	-0.6
3	6.3	2.9	-0.9
4	5.5	0.2	-1.0
5	6.8	337.9	-0.7
6	7.2	332.2	-0.6
7	5.7	324.1	-0.4
8	3.7	300.6	-0.8
9	4.1	318.6	0.2
10	4.5	317.8	0.7
11	4.4	320.4	0.5
12	3.7	311.6	0.4
13	4.3	279.8	-0.2
14	4.7	284.3	-0.4
15	5.8	287.3	-0.9
16	6.2	261.9	-0.8
17	6.7	257.3	-0.7
18	4.0	211.1	0.1
19	3.8	210.3	1.5
20	3.7	177.3	2.7
21	5.1	191.1	2.9
22	7.6	223.6	2.7
23	10.4	227.2	2.7
24	16.7	230.1	3.5

STOP TIME JAN 11,1981 HOUR 23 MINUTE 59

RELEASE NUMBER 81003 CONTAINMENT PURGE

STARTING TIME JAN 15,1981 HOUR 16 MINUTE 28

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	9.7	356.6	-0.6
17	9.1	351.9	-0.5
18	7.6	350.3	-1.0
19	6.8	333.3	-0.0
20	6.3	329.0	0.7
21	5.5	324.4	0.6
22	7.7	327.7	0.4
23	8.0	333.2	-0.2
24	5.8	337.9	-0.6
1	7.4	328.1	0.2
2	7.9	335.3	-0.4
3	5.9	313.4	0.1
4	6.6	326.5	-0.3
5	5.4	322.3	-0.3
6	6.2	331.4	-0.7
7	6.8	328.0	-0.3
8	5.6	315.9	-0.2
9	6.9	324.4	-0.6
10	8.8	334.2	-0.6
11	8.9	342.9	-0.6
12	9.1	346.6	-0.5
13	9.4	341.2	-0.7
14	9.5	336.8	-0.7
15	9.7	332.1	-0.7
16	9.5	335.5	-0.6
17	8.7	336.6	-0.5
18	7.2	337.3	-0.6
19	5.3	337.3	-0.1
20	4.3	317.4	0.2
21	2.6	307.0	0.2
22	2.1	276.8	0.3
23	3.2	295.4	0.6
24	3.4	295.2	1.2
1	3.3	311.7	1.6
2	2.7	310.4	2.2
3	3.1	300.5	1.7
4	4.4	284.8	1.6
5	5.3	249.7	1.9
6	4.8	259.8	1.3
7	3.9	261.1	1.4
8	4.7	235.3	0.9
9	8.6	260.3	3.7
10	4.3	225.6	0.8
11	4.3	268.1	-0.5
12	7.2	275.0	-1.1
13	11.2	268.9	-1.4
14	10.2	276.4	-1.4
15	9.7	270.7	-1.2
16	9.4	270.8	-1.0

17	6.9	265.5	-0.6
18	6.7	256.4	0.6
19	7.0	250.8	1.9
20	8.5	249.2	2.3
21	6.1	261.9	2.7
22	4.7	267.0	2.6
23	7.9	260.6	3.2
24	11.1	255.3	3.3
1	8.7	257.3	2.3
2	3.9	260.0	0.9
3	3.1	213.7	0.8
4	2.9	210.8	0.8
5	3.6	200.7	0.3
6	4.3	182.9	1.1
7	4.9	206.9	3.4
8	4.9	196.7	4.1
9	2.8	126.3	0.5
10	3.3	130.4	-0.3
11	7.4	196.1	-0.7
12	9.4	202.0	-0.9
13	11.0	206.0	-1.0
14	12.1	215.9	-1.1
15	11.1	212.1	-1.0
16	10.7	205.6	-0.8
17	6.2	199.8	-0.5
18	7.3	202.2	-0.3
19	8.3	205.0	0.4
20	10.1	205.3	1.0
21	6.6	213.4	0.1
22	5.2	178.4	0.3
23	4.5	208.2	0.7
24	4.8	174.5	1.4
1	9.5	223.0	1.4
2	9.7	224.0	1.3
3	5.9	226.2	0.2
4	6.7	235.3	0.6
5	6.9	257.2	2.0
6	4.3	240.7	1.0
7	2.7	231.0	0.9
8	2.3	257.5	1.5

STOP TIME JAN 19,1981 HOUR 7 MINUTE 27

RELEASE NUMBER 81004 CONTAINMENT PURGE

STARTING TIME JAN 22,1981 HOUR 17 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	2.9	311.9	0.0
18	1.8	230.3	0.3
19	1.6	252.0	1.7
20	1.7	250.0	2.9
21	1.7	256.9	2.8
22	1.2	59.9	3.3
23	1.4	54.0	4.3
24	1.4	303.4	4.6
1	1.5	300.4	4.9
2	1.8	91.0	7.8
3	1.7	300.3	8.5
4	2.5	14.9	7.8
5	1.2	22.3	7.0
6	3.0	126.1	8.6
7	3.2	136.0	6.6
8	2.6	132.7	7.6
9	2.2	56.2	5.8
10	4.1	111.3	3.0
11	4.5	88.8	1.2
12	2.7	28.1	-0.1
13	3.8	198.8	-0.3
14	4.0	188.7	-0.2
15	4.9	232.4	-0.7
16	3.5	226.8	-0.6
17	3.5	189.8	-0.1
18	2.8	161.4	0.9
19	1.9	100.0	4.1
20	2.0	318.8	6.3
21	1.4	268.3	7.1
22	1.2	232.4	7.3
23	1.4	239.4	6.4
24	1.1	66.1	6.4
1	1.1	31.8	6.9
2	1.1	32.4	8.5
3	1.4	108.9	8.1
4	1.4	131.4	7.9
5	1.5	51.3	8.3
6	1.3	73.4	7.9
7	1.1	252.1	8.1
8	1.6	87.0	9.6
9	1.6	117.2	9.8
10	3.6	113.7	7.3
11	3.4	94.4	1.7
12	8.0	187.6	-0.8
13	9.6	168.8	-1.0
14	10.5	179.4	-1.0
15	11.4	171.5	-0.9
16	10.6	162.1	-0.7
17	9.6	159.0	-0.3

18	8.9	166.1	0.9
19	10.9	162.3	1.4
20	10.4	170.9	2.3
21	13.4	179.3	2.4
22	15.2	194.4	3.7
23	14.6	196.2	2.8
24	15.4	192.4	3.2
1	14.7	202.2	2.7
2	10.8	197.2	2.9
3	3.9	107.2	1.4
4	3.2	272.2	2.4
5	2.8	221.1	2.4
6	2.3	83.9	4.5
7	4.1	254.5	3.9
8	6.0	285.7	2.5
9	6.9	289.1	1.2
10	11.0	307.1	-0.4
11	16.8	317.0	-0.8
12	15.7	318.5	-1.0
13	18.1	319.2	-1.1
14	17.0	310.9	-1.0
15	14.7	304.6	-1.0
16	12.7	300.0	-1.0
17	10.3	293.2	-0.8
18	6.2	285.1	0.1
19	7.8	280.6	0.1
20	11.8	285.7	-0.4
21	13.4	286.6	-0.4
22	14.2	284.3	-0.6
23	16.5	293.2	-0.8
24	16.6	294.1	-0.7
1	17.9	298.3	-0.7
2	7.8	297.8	-0.5
3	1.4	296.7	-0.7
4	9.6	289.6	-0.3
5	7.2	274.9	0.0
6	11.2	293.2	-0.5
7	14.7	311.8	-0.6
8	16.0	312.7	-0.6

STOP TIME JAN 26.1981 HOUR 7 MINUTE 20

RELEASE NUMBER 81005 CONTAINMENT PURGE

STARTING TIME JAN 29,1981 HOUR 16 MINUTE 45

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	8.0	63.9	-1.0
17	7.9	62.2	-1.0
18	5.2	57.0	-0.9
19	2.9	51.1	0.0
20	2.4	66.7	1.3
21	1.9	38.9	1.8
22	2.7	45.3	2.0
23	1.6	339.2	1.3
24	2.2	315.8	0.9
1	2.3	296.7	1.0
2	2.7	289.2	0.1

STOP TIME JAN 30,1981 HOUR 1 MINUTE 9

STARTING TIME JAN 30,1981 HOUR 2 MINUTE 17

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
2	2.7	289.2	0.1
3	3.1	296.3	0.7

STOP TIME JAN 30,1981 HOUR 2 MINUTE 40

STARTING TIME JAN 30,1981 HOUR 6 MINUTE 35

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
6	1.7	297.5	1.5
7	2.7	308.8	1.5

STOP TIME JAN 30,1981 HOUR 6 MINUTE 57

RELEASE NUMBER 81006 CONTAINMENT PURGE

STARTING TIME FEB 1,1981 HOUR 14 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
14	20.5	326.8	-0.8
15	22.8	326.8	-0.8
16	22.5	329.1	-0.8
17	19.3	333.0	-0.7
18	17.1	332.8	-0.6
19	16.1	326.5	-0.6
20	16.1	328.3	-0.5
21	17.9	329.7	-0.4
22	16.2	331.0	-0.4
23	12.0	322.4	-0.5
24	12.0	321.5	-0.4
1	10.2	317.0	-0.6
2	10.1	312.5	-0.3
3	9.5	310.1	-0.4
4	10.2	312.0	-0.4
5	9.2	305.9	-0.1
6	10.6	316.4	-0.5
7	7.2	302.5	-0.2
8	9.3	305.4	-0.5
9	11.1	308.0	-0.4
10	13.6	317.5	-0.5
11	15.2	331.0	-0.6
12	15.7	326.1	-0.5
13	15.2	321.4	-0.6
14	14.8	320.9	-0.5
15	13.9	318.9	-0.7
16	12.7	315.1	-0.8
17	11.3	316.4	-0.7
18	6.6	310.2	-0.3
19	4.1	266.9	-0.5
20	4.6	292.4	0.9
21	6.6	279.9	0.9
22	8.9	274.1	1.0
23	12.2	265.0	1.0
24	9.6	276.1	0.5
1	8.1	279.9	0.5
2	8.2	283.9	0.8
3	7.2	284.7	0.8
4	7.0	294.5	1.2
5	5.6	300.2	1.9
6	5.3	298.2	1.1
7	5.8	288.9	0.7
8	5.1	295.5	1.1
9	4.9	298.4	0.3

STOP TIME FEB 3,1981 HOUR 8 MINUTE 5

RELEASE NUMBER 81007 CONTAINMENT PURGE

STARTING TIME FEB 6,1981 HOUR 16 MINUTE 22

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	16.2	172.0	-1.0
17	15.5	184.7	-0.9
18	11.4	175.3	-0.6
19	12.4	171.6	-0.5
20	12.8	190.8	-0.4
21	13.0	225.7	0.7
22	7.6	268.8	0.6
23	6.3	290.4	1.0
24	8.6	288.0	0.3
1	9.8	282.8	0.3
2	12.8	271.0	-0.0
3	10.3	280.6	0.2
4	10.3	290.3	0.0
5	7.6	291.2	0.0
6	7.5	277.0	0.3
7	12.8	254.3	1.2
8	11.3	275.4	0.1
9	9.8	283.4	-0.3
10	16.5	308.6	-0.7
11	18.1	313.1	-0.8
12	18.6	312.1	-0.9
13	21.0	312.7	-1.0
14	18.6	323.0	-1.0
15	21.1	320.8	-1.0
16	19.6	317.6	-1.0
17	17.9	315.5	-0.9
18	13.9	322.0	-0.9
19	13.6	310.9	-0.8
20	14.8	313.5	-0.8
21	12.1	316.8	-0.7
22	13.4	315.6	-0.8
23	15.7	319.4	-0.9
24	16.0	324.4	-0.9
1	14.1	318.1	-0.8

STOP TIME FEB 8,1981 HOUR 0 MINUTE 15

STARTING TIME FEB 8,1981 HOUR 0 MINUTE 45

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
1	14.1	318.1	-0.8
2	13.5	317.0	-0.9
3	12.9	316.8	-0.9
4	11.5	314.4	-1.0
5	8.9	316.6	-0.9
6	7.4	313.3	-0.8
7	7.2	320.6	-1.0
8	4.5	304.5	-0.7
9	7.8	304.3	-0.8
10	7.4	304.3	-0.4
11	5.1	298.0	-0.2
12	3.8	309.9	0.2
13	5.4	219.6	-0.1
14	10.1	221.9	-1.1
15	10.5	204.6	-1.1
16	12.2	204.1	-1.1
17	10.5	207.4	-1.0
18	9.9	208.2	-0.9
19	9.6	192.5	-0.8
20	16.3	199.1	-0.6
21	18.8	203.1	0.0
22	17.3	221.6	1.2
23	15.7	226.3	2.7
24	9.5	253.0	1.2
1	10.1	311.4	-0.4
2	13.5	316.5	-0.8
3	12.2	318.7	-0.8
4	9.9	313.1	-0.7
5	7.8	321.6	-0.6
6	8.1	329.3	-0.4
7	6.9	329.6	-0.7

STOP TIME FEB 9,1981 HOUR 6 MINUTE 30

RELEASE NUMBER 81008 CONTAINMENT PURGE

STARTING TIME FEB 12,1981 HOUR 18 MINUTE 11

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	1.9	287.2	-0.4
19	1.6	198.0	-0.6
20	2.6	152.1	-0.2
21	5.0	166.9	0.9
22	7.5	177.8	1.1
23	5.7	165.9	0.7
24	6.0	177.4	1.3
1	5.0	175.3	1.5
2	8.0	175.6	1.5
3	12.3	188.9	1.2
4	12.7	183.9	0.7
5	9.9	173.0	0.0
6	8.8	161.9	0.0
7	10.8	167.5	0.1
8	12.7	177.0	-0.1
9	14.1	181.3	-0.3
10	19.3	197.9	-0.8
11	15.1	196.7	-0.9
12	18.4	187.5	-1.0
13	20.8	188.1	-1.2
14	19.5	187.1	-1.2

STOP TIME FEB 13,1981 HOUR 13 MINUTE 17

STARTING TIME FEB 13,1981 HOUR 13 MINUTE 35

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
13	20.8	188.1	-1.2
14	19.5	187.1	-1.2
15	19.4	185.6	-1.1

STOP TIME FEB 13,1981 HOUR 14 MINUTE 26

STARTING TIME FEB 13,1981 HOUR 19 MINUTE 42

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
19	9.3	161.6	-0.2
20	9.7	166.8	-0.4
21	11.7	174.9	-0.1
22	11.3	174.7	0.2

STOP TIME FEB 13,1981 HOUR 21 MINUTE 38

STARTING TIME FEB 14,1981 HOUR 4 MINUTE 32

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
4	4.6	134.6	0.1
5	4.0	104.9	0.2
6	6.4	115.6	-0.1
7	5.7	111.4	0.2
8	5.6	112.6	0.2
9	10.8	164.7	-0.4
10	12.3	179.8	-0.9
11	13.8	174.8	-1.0
12	15.1	176.7	-1.1
13	16.1	170.3	-1.2
14	17.1	172.9	-1.1
15	17.5	174.9	-0.9
16	17.0	173.3	-0.9
17	18.6	173.1	-0.7
18	17.0	171.1	-0.6
19	16.8	168.0	-0.4
20	20.0	174.0	-0.4
21	19.6	176.0	-0.4
22	22.3	180.6	-0.3
23	22.6	186.3	-0.4
24	21.5	189.5	-0.4
1	21.3	190.2	-0.3
2	20.4	190.6	-0.2
3	21.3	192.7	-0.2
4	20.9	199.3	-0.2
5	19.4	200.1	-0.2
6	17.8	195.5	-0.2
7	16.7	198.3	-0.2
8	18.2	194.2	-0.1
9	19.7	190.4	-0.3
10	21.2	195.9	-0.8
11	21.2	199.5	-0.9
12	22.7	204.9	-1.0
13	20.4	206.9	-1.1
14	17.8	214.5	-1.1

15	15.0	220.5	-0.9
16	15.5	226.1	-0.9
17	11.3	244.8	-0.7
18	6.8	244.6	-0.4
19	7.0	216.9	0.5
20	9.8	219.4	1.0
21	8.9	225.7	0.8
22	8.1	225.5	1.3
23	6.9	226.6	2.4
24	2.8	246.1	3.4
1	3.2	139.8	4.0
2	4.2	152.2	2.0
3	2.9	159.4	1.3
4	3.4	115.2	1.5
5	2.8	39.9	2.1
6	13.2	243.6	4.5
7	11.2	253.2	3.8
8	8.5	262.9	4.2

STOP TIME FEB 16,1981 HOUR 7 MINUTE 55

RELEASE NUMBER 81009 CONTAINMENT PURGE

STARTING TIME FEB 19,1981 HOUR 20 MINUTE 47

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	3.2	278.4	1.8
21	2.2	270.3	2.0
22	2.1	212.8	2.9
23	1.5	125.3	5.8
24	2.1	128.5	6.2
1	1.4	358.0	8.3
2	2.1	106.1	8.1
3	2.3	57.3	10.4
4	3.3	128.5	7.8
5	4.5	116.0	4.8
6	5.0	95.8	6.3
7	4.5	103.1	6.1
8	7.2	129.8	4.6
9	9.7	129.4	3.2
10	16.9	155.5	-0.5
11	16.8	150.3	-0.7
12	18.6	150.8	-0.9
13	18.7	143.3	-0.6
14	18.4	142.0	-0.8
15	19.9	132.9	-0.8
16	18.4	133.1	-0.8
17	15.3	142.9	-0.7
18	12.7	133.5	-0.1
19	8.8	130.8	0.9
20	5.9	116.6	0.1
21	5.7	105.3	0.2
22	4.3	90.6	0.8
23	2.6	346.4	3.0
24	2.8	295.2	2.7
1	3.9	298.1	2.7
2	5.5	318.5	2.7
3	3.7	297.7	2.1
4	7.5	327.2	1.4
5	7.0	321.6	2.0
6	5.7	328.9	0.6
7	8.3	335.6	-0.1
8	9.0	340.3	-0.5
9	9.4	339.2	-0.6
10	12.8	343.8	-0.8
11	12.8	346.5	-0.8
12	14.6	347.7	-0.9
13	14.5	353.7	-0.9
14	16.0	355.2	-1.0
15	17.0	349.6	-0.9
16	14.8	349.8	-0.8
17	12.9	350.1	-0.9
18	12.6	347.2	-0.8
19	11.8	346.9	-0.9
20	12.8	347.5	-0.9

21	10.8	356.3	-0.7
22	9.3	340.6	-0.5
23	9.3	334.4	-0.4
24	10.8	342.9	-0.4
1	10.2	344.0	-0.4
2	8.6	341.2	-0.5
3	9.7	334.3	-0.4
4	9.3	332.3	-0.3
5	11.3	320.0	-0.3
6	12.1	331.1	-0.3
7	11.9	334.4	-0.4
8	11.8	332.6	-0.4
9	11.6	327.5	-0.6
10	14.1	328.9	-0.8
11	15.2	334.9	-1.0
12	18.1	339.3	-1.0
13	17.0	346.3	-1.0
14	16.9	344.3	-0.9
15	18.5	339.6	-1.0
16	19.1	340.4	-0.9
17	22.4	336.5	-0.8
18	22.0	333.0	-0.7
19	18.6	329.8	-0.4
20	15.6	327.0	-0.0
21	14.7	327.5	0.0
22	14.7	331.8	-0.0
23	12.3	339.7	-0.5
24	12.7	338.2	-0.6
1	15.7	330.2	-0.4
2	14.2	331.4	-0.4
3	13.0	324.4	-0.4
4	11.8	318.4	-0.5
5	11.3	311.1	-0.3
6	12.8	309.7	-0.4
7	12.4	316.2	-0.3
8	12.2	312.2	-0.2

STOP TIME FEB 23,1981 HOUR 7 MINUTE 12

RELEASE NUMBER 81011 CONTAINMENT PURGE

STARTING TIME FEB 27,1981 HOUR 22 MINUTE 4

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
22	12.6	319.1	-0.8
23	14.1	322.4	-0.7
24	10.6	313.6	-0.4
1	11.5	314.7	-0.7
2	11.7	322.2	-0.6
3	12.5	325.5	-0.7
4	12.2	319.6	-0.9
5	12.0	317.1	-0.8
6	14.3	323.3	-0.7
7	11.8	332.9	-0.8
8	10.9	334.7	-0.8
9	9.0	345.0	-0.8
10	11.1	333.8	-0.9
11	12.5	328.3	-0.9
12	12.3	323.5	-0.9
13	12.8	323.5	-0.8
14	13.6	328.2	-0.9
15	13.0	339.2	-0.9
16	11.3	344.4	-0.9
17	11.0	337.4	-1.0
18	9.3	332.0	-0.9
19	8.4	334.9	-0.9
20	8.8	333.3	-0.9
21	8.5	335.9	-0.8
22	6.3	329.9	-0.7
23	5.0	331.2	-0.5
24	3.1	307.1	0.3
1	2.9	295.3	0.7
2	2.7	300.2	0.7
3	1.6	286.9	0.9
4	1.5	263.1	1.1
5	1.3	302.4	1.6
6	1.8	123.7	2.7
7	1.8	255.3	2.4
8	1.5	11.3	2.0
9	5.2	214.9	-0.1
10	5.7	213.0	-0.9
11	8.6	252.9	-1.1
12	9.0	269.0	-1.2
13	10.1	277.8	-1.5
14	10.0	282.4	-1.2
15	10.0	280.5	-1.4
16	9.1	280.8	-1.2
17	10.6	308.9	-0.8
18	8.7	341.1	-0.6
19	7.2	332.2	-0.1
20	5.2	313.7	0.9
21	3.9	296.6	1.2
22	3.2	287.0	1.4

23	4.3	325.2	0.9
24	4.4	5.0	-0.2
1	4.0	0.2	-0.6
2	3.9	357.8	-0.2
3	4.5	338.6	-0.2
4	5.5	331.9	0.1
5	6.1	355.6	-0.9
6	6.6	353.3	-1.0

STOP TIME MAR 2,1981 HOUR 5 MINUTE 12

STARTING TIME MAR 2,1981 HOUR 5 MINUTE 21

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
5	6.1	355.6	-0.9
6	6.6	353.3	-1.0
7	6.1	333.9	-0.3
8	5.1	318.8	0.2
9	6.1	343.6	-0.5

STOP TIME MAR 2,1981 HOUR 8 MINUTE 85

STARTING TIME MAR 2,1981 HOUR 9 MINUTE 39

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
9	6.1	343.6	-0.5
10	6.8	358.2	-0.4
11	6.4	353.9	0.0
12	6.3	5.8	0.0
13	5.9	352.5	0.5
14	5.0	14.0	0.2
15	4.2	337.2	0.9
16	3.5	17.7	1.1
17	2.8	26.5	1.1
18	2.0	150.9	0.5
19	1.8	159.3	-1.1
20	2.3	152.8	-0.0
21	2.0	166.5	1.6
22	4.0	132.1	2.5
23	4.0	129.3	3.7
24	5.5	111.6	2.9
1	4.0	102.7	2.6
2	5.4	116.7	2.1
3	8.9	163.4	1.1
4	8.3	176.3	0.6
5	8.2	157.8	-0.0
6	11.7	155.9	-0.4

7	11.7	172.5	-0.5
8	11.8	172.3	-0.6

STOP TIME MAR 3,1981 HOUR 7 MINUTE 32

RELEASE NUMBER 81012 CONTAINMENT PURGE

STARTING TIME MAR 5,1981 HOUR 20 MINUTE 29

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	5.5	250.8	0.6
21	9.3	243.5	1.2
22	9.4	238.1	1.5
23	4.1	268.5	2.1
24	3.0	316.0	2.3
1	3.0	24.1	2.2
2	1.6	309.8	0.1
3	3.4	301.0	0.2
4	2.4	310.9	-0.1
5	3.5	307.0	1.8
6	3.1	302.6	2.2
7	3.0	333.7	1.4
8	4.8	2.3	0.1
9	5.6	25.0	-1.0
10	7.2	56.6	-1.0
11	8.9	69.5	-0.7
12	8.1	72.4	-0.4
13	8.4	73.6	-0.4
14	7.9	75.2	-0.4
15	8.4	73.1	-0.5
16	9.2	70.7	-0.7
17	8.1	74.1	-0.8
18	7.0	75.8	-0.8
19	4.4	74.9	-0.5
20	2.8	62.2	0.7
21	1.8	58.0	0.8
22	0.8	328.7	-0.1
23	1.2	5.1	0.2
24	1.5	323.2	-0.1
1	1.5	319.1	-0.5
2	1.5	296.7	-0.2
3	1.8	294.0	0.4
4	2.6	302.8	0.4
5	2.9	303.1	0.4
6	2.6	307.3	0.2
7	2.7	305.0	0.3
8	2.9	322.4	0.4
9	2.5	334.7	1.1
10	2.2	14.4	1.5
11	4.8	69.4	0.5
12	6.0	63.7	0.3
13	6.3	40.6	-0.4
14	6.6	317.6	-0.3
15	5.9	300.4	-0.1
16	5.7	143.4	0.1
17	3.1	324.7	0.2
18	2.8	39.2	-0.8
19	0.9	337.0	-0.4
20	1.1	295.1	0.6

21	1.4	212.3	0.5
22	1.2	254.1	0.2
23	0.6	246.4	0.5
24	-99.0	-99.0	-99.0
1	-99.0	-99.0	-99.0
2	-99.0	-99.0	-99.0
3	1.2	285.6	1.7
4	0.7	332.5	1.3
5	0.5	349.9	1.5
6	0.7	183.7	1.4
7	0.6	308.7	1.0
8	0.7	59.1	3.8

STOP TIME MAR 8,1981 HOUR 7 MINUTE 25

STARTING TIME MAR 8,1981 HOUR 15 MINUTE 25

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
15	4.4	227.8	-1.2
16	7.8	227.0	-1.2
17	8.1	220.8	-1.1
18	7.7	205.8	-0.8
19	6.2	203.5	-0.1
20	5.4	192.0	0.9
21	6.1	189.0	1.3
22	7.5	189.9	2.0
23	8.8	191.3	2.8
24	8.2	202.4	2.3
1	4.5	168.3	2.0
2	5.5	204.4	1.5
3	6.0	167.5	0.9
4	6.0	125.9	1.4
5	9.5	188.1	1.6
6	9.9	201.8	0.2
7	6.4	186.8	-0.5
8	8.3	188.7	-0.4

STOP TIME MAR 9,1981 HOUR 7 MINUTE 15

RELEASE NUMBER 81013 CONTAINMENT PURGE

STARTING TIME MAR 12,1981 HOUR 17 MINUTE 41

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	7.6	322.7	-0.6
18	7.1	332.5	-0.5
19	6.1	319.5	-0.1
20	4.8	302.2	1.7
21	4.8	299.2	2.1
22	4.0	294.6	2.0
23	2.8	293.5	2.7
24	2.1	282.1	1.9
1	1.8	267.8	2.7
2	1.9	318.6	3.6
3	2.7	289.4	2.2
4	3.3	281.9	1.0
5	2.7	284.7	0.7
6	2.6	279.1	0.8
7	2.2	272.9	1.4
8	3.8	305.3	2.2
9	4.9	308.6	-0.1
10	7.2	324.6	-0.4
11	7.1	325.7	-0.2
12	9.2	328.0	-0.6
13	9.8	330.1	-0.9
14	8.9	335.0	-0.8
15	9.1	332.1	-0.9
16	8.5	337.9	-0.9
17	7.2	330.5	-0.6
18	5.7	336.7	-0.5
19	3.3	323.9	-0.5
20	2.8	271.1	0.4
21	2.3	262.8	0.8
22	1.7	250.3	0.5
23	1.2	256.4	1.0
24	0.8	235.8	0.3
1	1.3	86.3	1.9
2	1.6	107.1	3.8
3	1.5	194.6	5.2
4	1.3	70.4	6.4
5	1.5	85.4	8.0
6	1.6	196.3	7.8
7	1.8	168.2	6.1
8	3.4	83.0	2.6
9	9.5	178.4	-0.5
10	11.1	179.5	-1.2
11	13.8	181.2	-1.2
12	17.5	193.8	-1.4
13	18.9	197.9	-1.3
14	16.2	194.4	-1.4
15	17.3	194.1	-1.4
16	17.5	194.0	-1.2
17	16.0	194.0	-1.1

18	15.7	196.1	-0.7
19	11.8	192.1	-0.4
20	10.5	189.8	0.2
21	12.5	187.0	0.3
22	14.2	195.4	0.3
23	21.0	208.2	-0.3
24	21.8	211.7	0.0
1	23.2	214.1	-0.2
2	19.6	220.5	-0.1
3	17.0	231.9	0.4
4	16.1	237.9	0.6
5	10.3	256.5	1.0
6	9.4	268.0	2.4
7	8.6	276.5	1.6
8	10.0	288.8	0.1
9	10.0	298.9	-0.8
10	13.0	300.6	-0.9
11	15.5	304.9	-1.1
12	20.6	299.3	-1.2
13	19.6	307.3	-1.4
14	16.9	317.3	-1.2
15	18.4	310.9	-1.3
16	18.3	311.3	-1.2
17	18.0	312.6	-1.0
18	12.9	320.2	-0.7
19	11.1	314.5	-0.5
20	9.7	306.2	0.3
21	6.8	302.0	0.7
22	7.1	299.6	0.9
23	7.7	300.8	1.1
24	6.8	306.6	1.2
1	7.8	302.2	1.1
2	5.9	288.4	0.9
3	6.7	307.2	0.2
4	7.9	303.8	0.2
5	3.4	282.1	0.8
6	2.6	275.7	0.3
7	2.0	262.5	0.1
8	3.0	275.3	1.0
9	3.0	293.7	-0.4

STOP TIME MAR 16,1981 HOUR 8 MINUTE 3

RELEASE NUMBER 81014 CONTAINMENT PURGE

STARTING TIME MAR 19,1981 HOUR 16 MINUTE 54

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	16.6	330.9	-1.1
17	17.6	321.3	-1.0
18	16.1	325.4	-0.8
19	12.2	329.2	-0.4
20	7.4	333.0	0.1
21	4.3	314.0	1.0
22	4.3	313.2	0.8
23	4.2	311.8	1.3
24	3.6	296.8	1.2
1	3.4	298.8	1.2
2	2.2	300.1	0.4
3	1.8	327.3	1.8
4	1.8	295.8	1.2
5	1.8	313.8	1.5
6	1.9	335.6	1.3
7	0.9	299.4	1.9
8	0.7	188.2	2.1
9	1.7	260.5	2.0
10	2.8	217.0	1.3
11	3.9	124.8	-0.1
12	4.8	90.9	0.2
13	6.1	121.7	-0.1
14	7.8	136.2	-0.5
15	9.0	133.6	-0.5
16	10.5	131.7	-0.3
17	11.9	130.8	-0.7
18	10.5	125.2	-1.1
19	7.8	122.1	-0.8
20	4.9	127.4	-0.3
21	4.2	128.5	-0.1
22	5.4	125.7	0.1
23	6.9	125.5	-0.3
24	9.1	113.5	-0.8
1	9.8	110.2	-0.9
2	9.8	107.8	-0.9
3	11.8	102.9	-0.8
4	10.8	112.6	-0.8
5	13.7	109.5	-0.6
6	15.4	111.4	-0.9
7	14.1	111.4	-1.1
8	11.6	106.2	-1.2
9	9.9	98.3	-1.4
10	10.5	99.7	-1.0
11	10.9	95.4	-1.1
12	10.4	96.0	-0.9
13	9.8	94.0	-1.0
14	8.9	80.6	-0.8
15	9.5	73.9	-0.7
16	8.6	68.0	-0.8

17	7.3	70.1	-0.7
18	6.9	52.8	-0.6
19	5.2	40.2	-0.5
20	3.9	33.2	-0.4
21	3.6	32.9	-0.5
22	2.5	70.3	-0.7
23	2.0	44.9	-0.7
24	1.9	342.1	-0.6
1	1.7	334.0	-0.1
2	2.8	311.5	0.2
3	2.4	292.0	0.9
4	3.9	310.7	0.5
5	5.1	303.7	0.3
6	4.6	302.7	0.5
7	4.0	297.0	0.3
8	3.8	315.8	0.9
9	3.9	329.4	0.6
10	5.0	340.3	0.4
11	5.0	356.2	0.4
12	6.5	0.0	-0.3
13	6.7	352.2	-0.2
14	6.0	1.6	-0.1
15	6.3	16.5	-0.3
16	5.6	352.9	-0.1
17	5.1	22.1	-0.4
18	3.7	47.6	-0.5
19	1.4	30.3	-0.2
20	1.9	247.5	1.0
21	1.5	248.2	1.9
22	1.2	288.5	2.8
23	1.0	71.2	4.0
24	1.0	268.6	2.9
1	1.4	123.3	3.9
2	0.8	79.3	6.1
3	1.0	80.2	6.2
4	1.0	328.3	6.0
5	1.3	278.1	6.8
6	1.0	125.5	8.1
7	2.1	117.2	8.2
8	2.8	125.9	7.9

STOP TIME MAR 23,1981 HOUR 7 MINUTE 25

RELEASE NUMBER 81015 CONTAINMENT PURGE

STARTING TIME MAR 26,1981 HOUR 17 MINUTE 40

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	8.5	40.1	-0.5
18	7.5	57.7	-0.6
19	6.4	55.6	-0.6
20	5.7	60.3	-0.3
21	5.7	65.3	-0.5
22	5.2	76.8	-0.5
23	8.4	97.7	-0.8
24	8.8	96.8	-0.9
1	9.4	95.8	-0.9
2	8.5	100.6	-0.9
3	10.6	100.1	-1.0
4	11.0	107.9	-1.0
5	13.8	108.5	-0.9
6	14.1	113.2	-1.0
7	13.7	113.3	-1.0
8	15.3	114.2	-0.8
9	18.0	118.8	-0.9
10	20.3	112.4	-1.0
11	21.5	124.8	-0.9
12	25.5	124.8	-1.1
13	26.2	131.3	-1.1
14	25.8	137.8	-1.3
15	27.4	140.7	-1.2
16	24.4	142.2	-1.2
17	23.5	149.3	-1.2
18	19.9	158.0	-1.0
19	18.2	178.3	-0.8
20	14.4	180.2	-0.7
21	13.7	158.4	-0.7
22	14.1	166.6	-0.8
23	15.7	164.8	-0.8
24	18.3	165.3	-0.8
1	21.3	166.9	-0.7
2	19.1	166.3	-0.7
3	16.1	165.5	-0.7
4	15.6	163.8	-0.8
5	17.4	165.5	-0.7
6	13.9	163.5	-0.8
7	13.1	163.8	-0.8
8	15.4	170.6	-0.8
9	15.4	166.1	-1.0
10	21.5	175.9	-1.3
11	21.0	177.8	-1.5
12	18.9	165.6	-1.4
13	18.1	162.5	-1.4
14	18.9	164.4	-1.3
15	17.0	175.6	-1.1
16	17.0	167.9	-1.2
17	17.5	161.2	-1.1

18	17.6	154.2	-1.0
19	13.3	161.1	-0.6
20	15.5	150.5	-0.6
21	16.9	152.2	-0.7
22	13.3	154.9	-0.6
23	12.4	159.7	-0.8
24	10.7	177.8	-0.8
1	13.0	179.7	-0.6
2	14.0	172.2	-0.6
3	14.4	162.5	-0.6
4	15.2	154.6	-0.6
5	14.0	158.8	-0.6
6	11.1	153.8	-0.6
7	9.9	144.0	-0.3
8	9.7	145.2	-0.4
9	16.0	168.6	-0.9
10	18.5	213.3	-1.2
11	12.1	221.8	-1.1
12	10.4	212.7	-1.1
13	13.2	200.2	-1.1
14	15.4	194.0	-1.2
15	15.6	209.7	-1.3
16	14.5	245.1	-1.1
17	13.5	278.9	-1.2
18	11.1	271.4	-1.1
19	12.1	276.8	-1.1
20	9.3	282.5	-0.8
21	6.9	273.1	-0.8
22	6.1	283.2	-0.8
23	7.8	296.0	-0.8
24	8.1	288.5	-0.7
1	8.6	286.4	-0.6
2	8.0	294.5	-0.7
3	8.9	306.8	-0.9
4	7.5	289.2	-0.7
5	6.8	295.3	-0.8
6	7.1	287.9	-0.9
7	7.2	291.2	-0.9
8	6.8	304.8	-0.9

STOP TIME MAR 30.1981 HOUR 7 MINUTE 38

RELEASE NUMBER 81016 CONTAINMENT PURGE

STARTING TIME APR 2,1981 HOUR 17 MINUTE 50

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	13.6	198.9	-1.3
18	11.1	208.8	-0.9
19	14.9	202.1	-0.7
20	16.8	192.8	-0.5
21	17.0	194.6	-0.4
22	20.1	197.3	-0.5
23	20.1	201.6	-0.5
24	18.7	192.6	-0.5
1	16.9	187.7	-0.4
2	16.1	182.8	-0.5
3	18.2	182.7	-0.6
4	18.4	186.2	-0.5
5	19.3	189.0	-0.4
6	18.3	190.5	-0.4
7	18.1	185.3	-0.6
8	15.6	190.6	-0.8
9	13.9	197.7	-1.0
10	19.8	198.0	-1.1
11	21.6	206.1	-1.2
12	19.5	206.4	-1.3
13	21.7	201.4	-1.4
14	21.9	203.5	-1.3
15	17.2	223.2	-0.8
16	6.5	243.0	-0.6
17	5.9	75.8	0.1
18	8.1	229.1	0.6
19	9.9	223.8	0.2
20	15.1	337.7	-0.7
21	13.9	339.8	-0.8
22	13.7	342.8	-0.9
23	13.4	339.1	-0.9
24	14.2	336.3	-1.0
1	17.3	335.0	-0.9
2	17.4	330.9	-0.9
3	16.1	327.8	-0.9
4	14.3	318.7	-0.9
5	13.7	319.5	-0.8
6	15.1	318.3	-0.8
7	13.7	316.8	-0.9
8	12.4	319.0	-0.9
9	12.5	320.8	-0.9
10	12.3	318.8	-1.0
11	13.8	322.5	-0.9
12	14.0	321.8	-0.9
13	13.4	317.8	-0.9
14	12.5	312.7	-1.0
15	10.8	318.9	-0.9
16	9.6	337.4	-0.9
17	8.5	343.3	-1.0

18	5.6	345.4	-1.0
19	3.9	322.0	-0.8
20	2.6	299.4	0.3
21	2.9	307.9	0.9
22	4.7	298.4	0.9
23	6.0	303.1	0.5
24	5.2	299.0	0.3
1	4.6	295.6	0.5
2	3.9	302.2	1.1
3	2.8	322.1	0.7
4	1.7	301.9	0.3
5	2.3	291.7	0.2
6	2.1	303.7	1.0
7	2.3	300.7	0.7
8	3.2	300.0	-0.5
9	6.3	311.0	-0.9
10	8.2	323.4	-0.8
11	8.1	335.5	-0.4
12	10.5	321.2	-0.8
13	10.8	331.8	-0.6
14	10.1	333.3	-0.7
15	11.1	326.9	-0.7
16	11.8	328.2	-0.8
17	10.7	331.5	-0.6
18	8.0	338.9	-0.7
19	4.2	345.1	-0.8
20	2.1	229.9	-0.9
21	1.6	175.3	-0.0
22	1.9	144.9	1.6
23	2.6	153.9	2.3
24	4.3	128.7	2.6
1	6.2	139.7	3.2
2	8.1	160.5	1.9
3	7.9	162.2	1.5
4	10.1	164.8	0.5
5	10.8	163.7	0.4
6	11.5	159.0	0.1
7	13.9	164.7	0.0

STOP TIME APR 6,1981 HOUR 6 MINUTE 56

RELEASE NUMBER 81017 CONTAINMENT PURGE

STARTING TIME APR 8,1981 HOUR 18 MINUTE 24

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	6.1	353.6	-0.6
19	4.2	346.4	-0.9
20	2.6	287.8	-0.5
21	2.4	275.3	0.5
22	1.9	276.7	1.6
23	1.6	269.6	1.5
24	1.5	129.7	2.8
1	1.8	133.4	3.1
2	1.1	166.5	2.6
3	2.1	148.1	4.1
4	2.1	84.4	5.0
5	3.7	121.8	6.3
6	1.8	58.0	6.0
7	8.7	191.9	3.5
8	11.7	192.3	0.4
9	11.3	181.9	-1.0
10	15.0	182.5	-1.4

STOP TIME APR 9,1981 HOUR 9 MINUTE 44

STARTING TIME APR 9,1981 HOUR 10 MINUTE 21

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
10	15.0	182.5	-1.4
11	15.5	181.6	-1.5
12	14.2	183.1	-1.3
13	16.1	176.0	-1.4
14	15.6	185.4	-1.4
15	16.9	169.7	-1.5
16	16.0	166.3	-1.4
17	17.6	174.9	-1.3
18	15.7	169.8	-1.1
19	11.7	162.1	-0.7
20	11.1	150.6	-0.2
21	10.4	147.3	0.1
22	9.9	145.9	0.0
23	8.6	140.2	0.9
24	8.3	127.2	1.8
1	10.7	139.3	1.1
2	14.7	160.0	-0.4
3	14.2	166.3	-0.2
4	10.7	154.3	-0.5
5	8.4	138.4	0.8
6	8.6	135.6	1.6
7	8.7	142.2	1.4

8	4.6	310.0	0.3
9	2.4	116.7	0.3
10	1.3	286.3	-0.1
11	2.4	150.3	-0.1
12	2.8	107.3	-0.1
13	3.0	303.9	0.4
14	4.2	356.1	0.6
15	4.9	355.5	0.3
16	6.9	342.4	-0.3
17	7.0	344.9	-0.5
18	6.8	346.9	-0.6
19	5.8	353.8	-0.7
20	4.9	357.2	-0.3
21	5.1	24.1	0.1
22	3.9	42.5	0.4
23	4.1	76.7	-0.4
24	4.3	59.0	-0.4
1	4.9	17.6	-0.2
2	3.2	49.6	-0.3
3	2.8	57.0	-0.1
4	4.2	62.1	-0.4
5	4.3	20.8	-0.5
6	5.1	32.7	-0.6
7	5.2	42.4	-0.7
8	9.2	87.5	-0.9
9	11.9	89.1	-0.9
10	13.6	97.3	-0.8
11	11.9	96.4	-0.7
12	9.1	99.4	-0.2
13	8.0	103.6	-0.1
14	9.1	114.2	-0.0
15	7.6	111.3	-0.2
16	9.0	139.9	-1.0
17	10.5	147.7	-0.9
18	3.5	130.9	0.2
19	1.6	100.4	1.2
20	3.4	13.9	0.3
21	6.0	20.4	-0.6
22	5.5	32.8	-0.6
23	4.6	43.6	-0.5
24	4.6	39.4	-0.7
1	4.9	47.9	-0.7
2	4.1	59.8	-0.8
3	3.9	72.6	-0.8
4	5.5	44.2	-0.8
5	4.5	54.6	-0.9
6	3.4	21.6	-1.0
7	4.3	43.8	-1.0
8	5.2	61.0	-0.9

STOP TIME APR 12,1981 HOUR 7 MINUTE 50

RELEASE NUMBER 81018 CONTAINMENT PURGE

STARTING TIME APR 16.1981 HOUR 16 MINUTE 25

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	14.0	201.1	-1.2
17	14.7	203.2	-1.2
18	12.3	189.8	-1.0
19	9.5	173.9	-0.8
20	13.0	185.7	0.1
21	14.6	199.6	0.6
22	16.8	207.4	1.5
23	15.4	213.6	2.8
24	15.1	214.8	4.1
1	10.7	214.7	4.2
2	4.5	143.7	1.4
3	9.4	212.1	3.8
4	11.6	219.6	6.1
5	6.4	186.1	3.8
6	3.3	296.8	0.4
7	3.5	354.1	3.6
8	5.9	313.3	-0.4
9	6.8	344.1	-0.6
10	7.7	356.1	-0.7
11	7.0	5.3	-0.8
12	8.2	358.6	-0.7
13	9.0	359.1	-0.8
14	9.1	357.5	-0.8
15	8.2	354.4	-0.7
16	6.7	355.9	-0.7
17	6.2	351.9	-0.6
18	5.2	348.8	-0.5
19	4.8	352.6	-0.4
20	3.1	311.4	0.5
21	2.5	280.5	1.4
22	2.8	275.9	2.1
23	1.6	245.4	1.6
24	2.2	294.1	2.5
1	2.9	316.1	0.8
2	2.1	332.1	0.2
3	3.8	84.7	-0.2
4	2.3	52.4	-0.1
5	2.9	61.2	0.3
6	2.7	81.9	-0.6
7	4.4	78.1	-0.4
8	5.6	70.0	-0.8
9	7.5	91.9	-0.8
10	10.2	114.2	-0.5
11	12.6	111.4	-0.9
12	14.3	124.1	-0.7
13	14.1	116.4	-0.9
14	15.9	125.4	-0.9
15	15.8	131.6	-0.9
16	14.0	145.6	-1.1

17	13.2	147.6	-1.0
18	11.7	150.5	-0.9
19	8.6	142.8	-0.8
20	4.5	122.7	-0.4
21	4.7	148.9	-0.6
22	3.9	125.0	-0.6
23	8.0	138.0	-0.6
24	6.4	152.3	-0.7
1	6.2	148.6	-0.3
2	4.6	132.9	0.3
3	9.4	161.7	-0.4
4	5.5	157.9	-0.8
5	3.1	117.5	-0.7
6	2.4	90.7	-0.4
7	3.5	88.5	-0.6
8	3.8	67.0	-0.7
9	4.1	67.4	-0.9
10	4.5	75.0	-0.8
11	4.7	71.1	-0.8
12	6.4	72.4	-1.0
13	6.6	82.6	-0.8
14	7.4	82.8	-0.7
15	8.1	64.8	-0.9
16	9.7	55.2	-1.1
17	9.9	57.7	-1.1
18	9.7	50.2	-1.0
19	8.8	47.2	-0.9
20	9.2	53.4	-1.0
21	9.2	55.9	-0.9
22	8.8	61.1	-0.9
23	8.0	57.0	-0.9
24	6.6	56.6	-0.9
1	6.8	63.0	-0.9
2	10.4	75.8	-0.9
3	7.5	80.4	-0.9
4	5.2	65.2	-0.8
5	3.8	58.5	-0.5
6	5.5	52.4	-0.9
7	7.6	61.7	-1.0

STOP TIME APR 20,1981 HOUR 6 MINUTE 40

RELEASE NUMBER 81019 CONTAINMENT PURGE

STARTING TIME APR 23,1981 HOUR 18 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	12.1	336.2	-0.6
19	9.9	338.3	-0.6
20	6.2	324.8	0.2
21	2.7	305.7	1.5
22	3.4	299.6	1.9
23	3.0	307.8	1.8
24	3.4	313.6	1.7
1	5.3	329.3	1.0
2	4.5	310.1	1.9
3	3.3	305.6	1.9
4	3.5	293.1	1.3
5	2.5	295.5	0.6
6	1.7	295.7	0.4
7	2.6	302.6	0.8
8	3.8	322.9	-0.1
9	4.1	340.1	0.4
10	3.9	351.2	0.7
11	3.4	14.9	1.5
12	3.6	6.1	1.1
13	3.5	29.7	1.4
14	3.2	348.2	1.0
15	3.4	241.2	1.0
16	4.0	137.1	0.8
17	5.8	145.9	-0.4
18	7.0	164.8	-1.0
19	6.4	173.6	-0.7
20	4.7	167.5	0.3
21	6.0	168.3	1.8
22	8.2	160.8	1.6
23	8.8	146.4	1.2
24	7.2	149.9	1.4
1	9.5	165.5	0.4
2	12.3	171.6	0.1
3	11.2	157.7	-0.1
4	9.1	29.1	1.1
5	7.	34.8	0.4
6	11.4	44.9	0.8
7	12.6	153.3	-0.2
8	13.5	167.8	-1.0
9	11.9	176.2	-1.2
10	11.4	177.3	-1.4
11	11.2	182.5	-1.4
12	11.2	188.8	-1.5
13	13.9	202.5	-1.5
14	14.7	215.7	-1.3
15	14.4	219.3	-1.1
16	14.0	217.6	-0.9
17	14.2	218.7	-0.8
18	12.3	216.0	-0.6

19	13.2	208.1	-0.5
20	11.3	198.8	0.0
21	12.5	200.6	0.2
22	13.3	206.4	0.6
23	13.5	220.1	0.3
24	14.8	215.5	0.3
1	16.2	220.4	0.5
2	15.8	227.2	2.3
3	12.2	234.3	2.8
4	5.4	302.0	1.0
5	3.8	287.9	0.7
6	2.5	63.6	2.3
7	2.8	219.3	2.8
8	3.6	303.0	0.1
9	2.5	21.7	1.4
10	3.5	41.5	1.0
11	3.0	93.1	1.3
12	3.8	85.5	1.9
13	5.1	116.6	-0.2
14	8.8	183.8	-1.3
15	7.8	171.2	-1.3
16	6.9	144.5	-0.8
17	7.7	143.0	-0.6
18	9.1	148.2	-0.9
19	7.0	148.7	-0.3
20	3.6	141.0	2.0
21	6.1	168.3	2.8
22	7.6	182.8	1.3
23	8.7	191.2	1.7
24	8.5	186.6	0.7
1	11.5	190.2	0.3
2	10.7	194.3	0.4
3	11.1	186.9	0.3
4	8.2	175.4	0.2
5	6.1	130.9	0.6
6	6.5	138.4	1.3
7	7.5	128.0	1.0
8	10.2	155.3	-0.8

STOP TIME APR 27,1981 HOUR 7 MINUTE 35

RELEASE NUMBER 81020 CONTAINMENT PURGE

STARTING TIME APR 30,1981 HOUR 18 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	3.6	306.1	-0.3
19	4.1	321.4	-0.2
20	7.9	344.2	-0.7
21	6.6	339.7	-0.5
22	4.6	332.5	0.2
23	5.3	336.9	0.4
24	5.1	326.4	0.8
1	5.3	316.1	1.7
2	4.1	319.2	2.2
3	3.4	316.1	2.8
4	3.4	315.0	2.7
5	5.6	326.5	1.9
6	6.8	326.5	1.2
7	6.6	329.7	0.4
8	9.0	0.6	-0.9
9	7.9	358.3	-0.7
10	9.1	2.5	-0.8
11	8.5	0.2	-0.5
12	8.5	7.5	-0.7
13	7.4	354.4	-0.2
14	7.2	6.1	-0.5
15	6.7	13.3	-0.3
16	5.7	37.8	-0.3
17	4.1	31.5	0.4
18	3.1	6.1	0.4
19	2.0	36.7	-0.3
20	2.4	185.1	0.6

STOP TIME MAY 1,1981 HOUR 19 MINUTE 15

STARTING TIME MAY 1,1981 HOUR 20 MINUTE 35

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	2.4	185.1	0.6
21	4.4	130.6	1.9
22	4.6	139.4	1.5
23	6.0	142.1	3.3
24	6.6	130.0	3.1
1	7.4	155.0	2.5
2	9.8	169.5	1.5
3	8.4	134.8	2.[illegible]
4	8.7	144.0	1.6
5	11.1	160.9	-0.1
6	12.1	163.7	-0.4
7	14.5	172.3	-0.8

8	17.5	173.5	-1.1
9	18.4	176.7	-1.3
10	21.1	178.2	-1.4
11	22.2	179.9	-1.6
12	22.7	185.7	-1.6
13	22.8	183.0	-1.7
14	23.6	183.4	-1.6
15	24.9	188.6	-1.5
16	24.8	188.6	-1.4
17	22.1	186.8	-1.3
18	24.2	190.1	-1.1
19	20.2	185.7	-0.8
20	16.4	174.4	-0.6
21	17.2	173.7	-0.6
22	20.5	173.8	-0.7
23	23.5	181.3	-0.7
24	21.6	180.1	-0.6
1	18.6	183.0	-0.6
2	16.7	188.0	-0.5
3	18.5	189.0	-0.5
4	19.9	188.5	-0.6
5	19.0	198.4	-0.7
6	14.5	196.7	-0.7
7	15.7	197.9	-0.8
8	14.3	182.6	-0.9
9	13.3	179.9	-1.1
10	16.4	194.1	-1.1
11	15.2	198.7	-1.1
12	15.2	199.0	-1.1
13	10.6	212.8	-0.8
14	12.9	213.0	-0.8
15	10.5	217.0	-0.7
16	11.2	195.9	-1.0
17	11.0	168.8	-1.1
18	12.0	161.6	-0.8
19	11.6	319.2	-0.4
20	4.1	32.4	-0.3
21	3.5	5.2	0.1
22	3.3	150.4	0.1
23	5.2	272.5	0.2
24	4.5	322.7	0.1
1	1.9	322.1	-0.3
2	3.5	310.7	0.1
3	4.4	327.5	-0.4
4	6.4	333.8	-0.1
5	5.3	9.0	-0.1
6	4.2	8.7	0.0
7	6.6	326.9	0.1

STOP TIME MAY 4,1981 HOUR 6 MINUTE 3

RELEASE NUMBER 81021 CONTAINMENT PURGE

STARTING TIME MAY 7,1981 HOUR 18 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	6.3	167.6	-0.7
19	7.5	149.4	-0.7
20	3.6	132.3	-0.3
21	4.1	147.7	0.2
22	5.6	169.2	-0.1
23	5.4	161.4	-0.4
24	5.6	173.4	-0.6
1	5.6	184.1	-0.5
2	3.6	149.8	-0.5
3	2.3	138.5	-0.4
4	3.1	143.5	-0.3
5	4.5	138.4	-0.2
6	1.8	310.3	0.0
7	2.3	278.4	-0.1
8	1.9	186.4	-0.4
9	4.1	141.3	-0.5

STOP TIME MAY 8,1981 HOUR 8 MINUTE 6

STARTING TIME MAY 8,1981 HOUR 9 MINUTE 46

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
9	4.1	141.3	-0.5
10	5.8	156.4	-0.5
11	5.5	220.0	-0.6
12	4.3	249.3	-0.0
13	4.1	205.3	-0.3
14	4.7	173.2	0.0
15	5.7	175.4	-0.5
16	6.2	183.9	-0.7
17	7.4	149.6	-0.6
18	8.7	142.6	-0.9
19	9.3	150.8	-0.9
20	8.7	150.8	-0.7
21	6.1	142.5	-0.3
22	5.7	153.9	-0.2
23	4.2	124.4	0.1
24	4.6	129.6	0.1
1	2.8	124.6	0.0
2	6.4	112.8	-0.2
3	6.0	133.0	-0.4
4	5.1	124.8	-0.2
5	3.0	124.5	-0.2
6	3.6	26.8	-0.4
7	4.2	2.2	-0.3

8	5.7	1.0	-0.5
9	7.2	8.7	-0.5
10	10.3	355.7	-1.2
11	11.9	351.0	-0.9
12	12.3	357.9	-1.0
13	12.8	5.7	-1.1
14	11.8	5.8	-1.1
15	11.4	11.9	-1.1
16	10.8	14.0	-1.2
17	11.9	16.3	-1.3
18	13.0	1.5	-0.8
19	11.7	4.6	-0.8
20	9.6	2.6	-0.8
21	5.9	346.4	-0.8
22	7.6	345.4	-0.8
23	6.9	348.8	-0.9
24	7.3	1.7	-0.8
1	6.0	2.6	-0.4
2	6.3	3.3	-0.4
3	6.4	2.5	-0.6
4	6.9	4.0	-0.7
5	7.6	359.8	-0.9
6	7.3	358.0	-1.1
7	8.2	4.3	-1.1
8	8.3	9.4	-1.1
9	9.3	359.7	-1.0
10	8.9	1.3	-0.9
11	10.1	5.2	-0.9
12	9.7	4.7	-1.0
13	10.5	6.8	-1.0
14	9.5	28.3	-1.7
15	8.9	18.6	-1.4
16	8.1	18.0	-1.3
17	7.7	18.9	-1.2
18	5.7	27.2	-1.1
19	4.3	18.2	-0.6
20	2.3	333.0	0.3
21	1.6	262.7	2.2
22	1.7	276.8	3.0
23	2.3	282.7	3.0
24	1.9	300.0	2.2
1	2.5	293.8	2.0
2	2.5	296.5	2.4
3	3.1	295.7	1.8
4	1.9	269.8	1.4
5	1.8	285.6	2.2

STOP TIME MAY 11,1981 HOUR 4 MINUTE 45

RELEASE NUMBER 81022 CONTAINMENT PURGE

STARTING TIME MAY 14,1981 HOUR 16 MINUTE 30

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	4.9	347.1	-0.2
17	5.0	1.4	-0.1
18	3.9	15.3	0.0
19	3.5	355.5	-0.5
20	1.9	277.3	0.8
21	1.4	253.3	1.9
22	1.9	178.7	2.9
23	1.6	191.3	3.7
24	1.0	327.4	6.0
1	1.3	62.8	6.4
2	1.4	92.9	5.3
3	4.0	133.7	5.6
4	5.3	270.3	5.0
5	2.9	63.2	6.2
6	2.1	130.3	7.4
7	4.6	126.2	3.9
8	5.8	119.7	1.0
9	6.2	130.7	-0.4

STOP TIME MAY 15,1981 HOUR 9 MINUTE 18

STARTING TIME MAY 15,1981 HOUR 11 MINUTE 31

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
11	9.1	196.7	-1.2
12	10.1	184.5	-1.4
13	11.5	176.7	-1.4
14	12.3	167.1	-1.4
15	12.4	163.1	-1.4
16	13.2	167.2	-1.4
17	12.8	161.0	-1.3
18	12.4	159.2	-1.0
19	10.7	161.9	-0.7
20	9.0	146.8	-0.4
21	7.2	134.3	0.3
22	6.2	135.7	1.0
23	6.6	140.4	0.6
24	6.6	128.3	0.5
1	6.4	142.5	0.0
2	3.3	145.7	0.3
3	5.0	127.2	0.3
4	5.9	137.6	0.5
5	5.9	131.7	0.2
6	6.1	138.5	-0.2
7	8.7	123.8	0.2

8	11.1	135.4	-0.8
9	11.9	138.0	-0.8
10	13.3	144.1	-0.8
11	19.1	140.7	-0.9
12	24.3	141.7	-0.9
13	25.4	147.8	-1.1
14	24.0	151.5	-1.2
15	18.5	150.4	-1.1
16	20.4	152.0	-1.0
17	23.0	138.7	-0.9
18	18.1	147.6	-1.4
19	10.1	140.6	-2.2
20	7.8	101.0	-0.5
21	10.8	116.1	-0.9
22	10.8	111.4	-0.8
23	10.2	123.6	-0.8
24	12.3	117.9	-1.1
1	9.6	105.8	-1.0
2	10.9	111.9	-1.0
3	17.8	116.8	-1.3
4	12.2	116.1	-0.7
5	9.8	109.6	-1.0
6	9.8	106.7	-0.8
7	12.2	107.7	-0.9
8	12.6	108.2	-0.8
9	11.7	105.7	-0.8
10	13.8	108.9	-0.9
11	12.4	103.4	-0.9
12	14.0	109.3	-1.2
13	15.2	119.1	-1.0
14	14.0	111.0	-1.0
15	12.5	103.2	-0.9
16	13.4	105.5	-0.9
17	11.7	106.3	-1.0
18	10.0	100.5	-1.0
19	5.7	87.5	-0.8
20	10.5	93.8	-0.8
21	9.9	92.3	-0.7
22	10.7	84.7	-0.8
23	12.2	89.3	-0.9
24	13.4	90.3	-0.9
1	12.5	89.3	-0.9
2	13.3	93.3	-0.8
3	13.5	92.0	-0.9
4	14.2	91.3	-0.9
5	13.7	95.5	-0.9
6	15.2	93.3	-0.9
7	13.7	89.5	-1.0

STOP TIME MAY 18,1981 HOUR 6 MINUTE 16

RELEASE NUMBER 81023 CONTAINMENT PURGE

STARTING TIME MAY 21,1981 HOUR 17 MINUTE 52

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	20.3	146.0	-1.1
18	21.3	158.8	-1.1
19	15.7	163.5	-0.8
20	13.5	159.6	-0.8
21	12.8	155.0	-0.7
22	12.7	156.5	-0.6
23	10.6	159.3	-0.6
24	7.8	210.6	-0.5
1	7.4	169.5	0.3
2	8.1	127.8	0.2
3	8.2	130.5	0.3
4	9.5	132.7	-0.3
5	12.1	143.8	-0.5
6	11.7	141.3	-0.5
7	12.7	144.9	-0.7
8	12.6	148.1	-0.8
9	13.8	151.9	-1.0
10	14.6	157.2	-1.1
11	15.4	159.1	-1.3
12	15.7	158.1	-1.4
13	16.2	151.9	-1.5
14	16.5	148.2	-1.5
15	15.8	151.0	-1.5
16	15.2	150.6	-1.4
17	12.9	151.9	-1.1
18	13.4	159.2	-1.0
19	12.5	158.9	-0.7
20	13.8	156.8	-0.7
21	12.0	180.9	-0.3
22	14.2	205.3	2.1
23	9.2	162.8	2.8
24	5.3	39.1	0.5
1	2.7	144.7	2.5
2	7.6	133.4	1.3
3	10.2	150.0	-0.4
4	8.5	171.6	-0.4
5	8.6	168.2	-0.4
6	11.5	163.5	-0.7
7	13.2	178.3	-0.7
8	13.9	187.2	-0.9
9	10.6	189.0	-1.0
10	6.4	227.2	-0.9
11	4.2	266.6	-0.6
12	4.6	265.4	-0.1
13	7.0	249.2	-0.6
14	7.5	243.4	-0.7
15	8.7	250.9	-0.9
16	8.4	260.8	-1.0
17	9.1	279.2	-1.1

18	11.9	285.3	-1.1
19	11.0	296.1	-0.9
20	8.2	292.3	-0.9
21	7.3	296.6	-0.8
22	7.9	302.6	-0.7
23	5.7	304.9	-0.8
24	6.1	283.5	-0.8
1	7.1	283.5	-0.9
2	6.5	279.4	-0.8
3	7.4	289.4	-0.9
4	4.8	283.0	-0.7
5	4.0	278.2	-0.6
6	4.1	280.4	-0.6
7	5.7	254.1	-0.8
8	6.5	266.1	-1.0
9	8.5	289.8	-1.2
10	9.2	282.0	-1.3
11	8.7	271.3	-1.2
12	8.1	275.6	-1.4
13	7.9	273.2	-1.1
14	7.6	267.5	-1.2
15	8.3	260.1	-1.0
16	8.1	251.6	-0.7
17	10.0	238.7	-0.4
18	7.4	281.2	-0.5
19	7.3	307.7	-0.6
20	2.6	299.6	0.4
21	3.8	289.3	0.6
22	2.3	292.9	0.8
23	3.4	293.7	0.5
24	2.9	296.8	0.1
1	1.5	258.2	0.2
2	2.0	211.1	0.4
3	2.3	287.4	1.6
4	1.7	234.2	1.8
5	1.8	218.5	1.7
6	1.6	287.7	1.9
7	4.3	267.7	0.1
8	5.1	308.9	-1.0
9	7.9	324.4	-0.9

STOP TIME MAY 25,1981 HOUR 8 MINUTE 8

RELEASE NUMBER 81024 CONTAINMENT PURGE

STARTING TIME MAY 28,1981 HOUR 16 MINUTE 29

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	6.6	258.6	-0.5
17	5.1	299.3	-0.6
18	4.4	333.7	-0.7
19	4.2	345.0	-0.7
20	5.2	348.9	-0.6
21	5.2	342.7	-0.7
22	4.5	326.7	0.0
23	2.6	303.2	0.5
24	3.4	320.2	0.8
1	4.9	324.4	0.0
2	3.2	309.1	0.6
3	3.3	311.1	0.9
4	2.7	295.2	0.9
5	2.9	315.4	0.4
6	2.6	314.2	0.6
7	3.1	328.3	-0.1
8	3.2	341.7	-0.1
9	4.2	350.7	-0.3
10	5.7	340.5	-0.5
11	6.7	347.0	-0.6
12	7.6	343.6	-0.8
13	7.1	346.7	-0.6
14	7.0	357.2	-0.6
15	6.8	12.0	-0.6
16	8.2	358.8	-0.6
17	9.2	345.0	-0.5
18	9.5	344.4	-0.6
19	8.5	344.9	-0.6
20	11.6	339.6	-0.6
21	7.9	338.1	-0.2
22	7.3	337.9	0.0
23	5.6	334.4	0.4
24	4.3	329.2	1.0
1	5.7	332.3	0.7
2	5.1	320.4	1.5
3	4.7	323.8	1.4
4	3.5	306.9	1.1
5	3.9	295.9	1.9
6	2.8	301.8	1.7
7	3.0	307.3	0.9
8	3.2	333.5	0.7
9	3.2	7.2	0.3
10	3.9	352.1	0.7
11	4.8	1.9	0.4
12	4.8	1.8	0.4
13	5.5	351.7	0.2
14	6.1	353.1	0.7
15	5.1	25.4	0.8
16	4.4	34.7	0.5

17	4.3	81.9	0.4
18	3.6	20.2	-0.0
19	3.5	104.9	-0.0
20	2.1	115.7	-0.0
21	1.4	212.0	2.4
22	1.3	123.0	3.6
23	1.9	133.3	4.7
24	2.5	126.7	3.7
1	1.3	219.8	3.0
2	4.8	161.0	2.9
3	3.9	197.8	2.6
4	2.7	199.2	2.1
5	3.6	169.2	1.9
6	3.2	106.5	0.1
7	5.4	167.2	-0.1
8	8.4	218.2	-0.6
9	8.8	218.1	-1.2
10	8.9	209.8	-1.4
11	11.8	189.3	-1.6
12	13.5	173.7	-1.6
13	15.1	174.8	-1.7
14	15.3	177.0	-1.7
15	15.7	178.1	-1.7
16	15.7	168.2	-1.6
17	14.1	180.8	-1.5
18	13.8	177.7	-1.3
19	12.5	168.8	-0.8
20	8.3	164.3	-0.3
21	7.1	171.9	0.5
22	8.9	177.0	0.5
23	10.0	166.6	0.3
24	9.5	172.1	0.2
1	8.3	173.3	0.3
2	11.3	176.6	0.5
3	11.0	184.8	0.2
4	10.1	193.1	0.3
5	9.5	192.7	0.4
6	8.0	185.9	0.6
7	11.8	193.5	-0.5
8	15.1	187.1	-1.2

STOP TIME JUNE 1,1981 HOUR 7 MINUTE 30

RELEASE NUMBER 81025 CONTAINMENT PURGE

STARTING TIME JUNE 4.1981 HOUR 17 MINUTE 50

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	5.5	222.9	-0.9
18	6.5	233.8	-0.8
19	4.1	239.1	-0.5
20	2.4	150.3	0.8
21	4.8	133.2	1.6
22	6.5	170.5	1.1
23	8.5	174.2	1.0
24	9.6	191.0	0.8
1	8.3	191.9	1.2
2	6.3	201.8	1.8
3	2.8	106.9	0.6
4	3.1	84.2	-0.2
5	3.6	96.8	0.4
6	2.9	17.5	1.0
7	3.8	142.9	-0.1
8	3.0	283.6	-0.7
9	3.8	262.4	-0.3
10	4.6	266.1	-0.3
11	3.6	258.0	0.4
12	4.5	3.4	1.8
13	4.2	4.4	1.5
14	3.9	353.7	1.9
15	4.4	344.9	1.0
16	5.7	254.5	-0.6
17	3.7	307.2	-0.4
18	3.3	4.4	0.1
19	2.1	301.6	0.6
20	4.6	334.7	0.4
21	4.6	342.0	-0.2
22	4.2	322.4	0.4
23	2.7	319.3	2.2
24	2.9	337.4	1.9
1	5.0	324.8	1.2
2	4.8	317.1	2.0
3	3.5	302.8	2.4
4	3.3	298.9	2.5
5	2.9	283.1	2.1
6	2.5	288.0	2.4
7	3.0	317.8	1.9
8	3.1	356.9	0.7
9	4.2	107.1	0.4
10	5.5	92.1	0.0
11	5.5	102.3	0.3
12	5.2	31.6	-0.1
13	4.8	20.0	0.6
14	4.1	14.7	1.4
15	4.9	0.2	0.8
16	3.5	128.6	0.5
17	3.4	234.7	-0.1

18	3.6	92.2	0.3
19	6.3	163.5	-0.6
20	6.5	164.3	0.7
21	5.8	154.4	2.7
22	7.1	156.0	3.3
23	9.2	185.5	2.6
24	10.7	185.0	1.8
1	10.4	197.0	0.8
2	8.9	186.7	0.3
3	8.8	183.4	-0.0
4	7.5	185.5	-0.3
5	10.3	178.1	-0.2
6	11.5	164.7	-0.6
7	10.6	160.5	-0.6
8	12.2	179.4	-0.3
9	12.8	180.6	-0.8
10	14.3	188.7	-1.3
11	15.2	211.9	-1.4
12	15.9	223.9	-1.4
13	11.4	236.4	-1.1
14	10.1	245.1	-1.0
15	14.1	254.0	-1.0
16	12.0	261.3	-0.9
17	8.4	269.4	-0.8
18	6.6	279.2	-0.5
19	6.1	278.7	-0.1
20	5.7	310.4	0.2
21	2.5	337.7	1.0
22	4.1	336.8	1.0
23	4.3	337.0	-0.1
24	3.2	307.7	0.5
1	5.3	335.9	0.0
2	3.7	339.0	-0.4
3	3.9	332.6	-0.7
4	3.7	298.2	0.5
5	2.8	310.4	1.0
6	2.7	269.6	0.9
7	2.5	95.3	0.0
8	4.7	104.3	-0.6

STOP TIME JUNE 8,1981 HOUR 7 MINUTE 30

RELEASE NUMBER 81026 CONTAINMENT PURGE

STARTING TIME JUNE 11,1981 HOUR 16 MINUTE 24

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	8.4	145.9	-0.7
17	6.9	124.0	-0.5
18	7.8	175.0	-1.1
19	5.1	160.4	-0.7
20	3.3	135.2	-0.1
21	3.5	138.4	0.8
22	4.4	149.0	0.8
23	6.0	147.8	0.5
24	7.2	168.6	-0.4
1	8.0	170.7	-0.8
2	7.7	163.0	-0.8
3	7.6	165.0	-0.8
4	4.9	150.6	-0.8
5	5.3	148.4	-0.7
6	6.3	152.4	-0.6
7	3.7	177.9	-0.9
8	3.7	98.8	-0.6
9	7.8	124.6	-0.3
10	12.3	147.4	-0.5
11	12.9	151.3	-0.7
12	13.4	151.4	-0.9
13	15.2	158.2	-1.5
14	15.6	169.4	-1.6
15	17.4	181.3	-1.6
16	19.4	183.0	-1.5
17	17.6	177.0	-1.3
18	16.3	179.4	-1.0
19	14.1	173.3	-0.9
20	10.6	167.3	-0.6
21	9.5	158.0	-0.5
22	10.9	159.8	-0.7
23	13.1	163.0	-0.7
[illegible]	14.3	164.9	-0.7
1	14.5	163.6	-0.7
2	14.4	170.8	-0.7
3	12.5	175.2	-0.6
4	12.3	176.7	-0.6
5	11.0	171.6	-0.7
6	11.4	170.4	-0.7
7	14.6	177.3	-1.0
8	19.9	185.8	-1.2
9	25.6	191.1	-1.4
10	25.7	199.6	-1.5
11	26.5	195.2	-1.6
12	24.6	194.3	-1.7
13	25.0	193.4	-1.8
14	23.0	196.0	-1.6
15	20.9	205.9	-1.4
16	17.3	204.0	-1.3

17	18.3	201.2	-1.1
18	19.7	199.8	-1.1
19	19.2	194.9	-0.9
20	11.9	183.7	-0.8
21	14.5	180.0	-0.7
22	15.0	177.9	-0.6
23	16.6	174.4	-0.7
24	18.1	172.5	-0.8
1	18.4	177.8	-0.7
2	18.8	186.0	-0.8
3	16.4	187.2	-0.8
4	13.9	193.0	-0.7
5	14.2	187.2	-0.6
6	11.1	166.5	-0.6
7	13.5	175.6	-0.6
8	15.1	193.0	-0.8
9	16.2	189.6	-0.8
10	21.2	192.7	-1.1
11	20.0	195.0	-1.4
12	20.5	206.1	-1.2
13	18.9	210.7	-1.2
14	19.9	204.7	-1.4
15	20.9	199.5	-1.3
16	11.4	298.6	-0.6
17	13.1	342.5	-1.0
18	11.4	344.4	-0.9
19	9.6	346.6	-0.9
20	7.7	351.5	-0.9
21	4.8	356.2	-1.0
22	7.7	350.0	-0.9
23	3.9	341.4	-0.7
24	6.7	340.3	-0.6
1	5.2	345.2	-0.4
2	3.6	328.9	-0.4
3	3.5	319.9	-0.0
4	4.6	337.1	-0.3
5	3.6	324.6	0.2
6	3.8	11.5	-0.3
7	3.2	206.1	-0.8

STOP TIME JUNE 15,1981 HOUR 6 MINUTE 38

RELEASE NUMBER 81027 CONTAINMENT PURGE

STARTING TIME JUNE 19,1981 HOUR 17 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	12.2	153.7	-1.1
18	11.0	148.0	-0.9
19	13.3	141.4	-0.6
20	8.5	139.8	-0.5
21	6.8	144.9	0.1
22	9.4	148.6	0.1
23	11.2	155.5	-0.0
24	10.6	159.1	0.0
1	8.3	161.0	0.2
2	8.5	179.6	0.1
3	4.7	306.0	0.3
4	1.9	247.4	0.3
5	2.3	314.7	0.4
6	4.9	317.8	-0.1
7	3.8	346.4	-0.2
8	3.8	22.2	-0.5
9	4.0	2.3	-0.4
10	4.3	83.6	-0.2
11	3.5	153.4	-0.2
12	3.1	28.6	0.5
13	3.0	195.7	-0.6
14	2.6	164.1	-0.1
15	4.6	104.4	0.9
16	6.1	104.6	0.3
17	5.8	98.0	0.2
18	4.5	92.9	-0.2
19	3.6	91.9	-0.0
20	3.2	107.3	0.8
21	2.3	157.0	1.7
22	3.0	136.6	2.0
23	8.2	159.0	1.2
24	4.2	51.9	1.4
1	6.9	110.2	1.2
2	13.9	166.0	0.9
3	8.9	108.4	-0.3
4	10.5	124.1	-0.3
5	7.1	88.7	-0.6
6	6.6	111.1	-0.3
7	5.7	72.1	-0.4
8	4.0	47.6	-0.6
9	3.6	89.5	-0.8
10	3.9	36.4	-0.4
11	4.0	186.7	-0.6
12	2.9	227.3	-1.0
13	3.6	288.5	-1.2
14	4.0	303.6	-0.6
15	7.5	328.6	-0.5
16	8.4	342.5	-0.5
17	7.9	345.3	-0.4

18	6.8	343.9	-0.4
19	4.7	339.1	-0.0
20	2.3	323.8	0.9
21	3.0	315.4	1.8
22	3.9	312.6	2.1
23	4.9	327.2	1.1
24	3.8	304.4	1.5
1	1.8	285.8	2.2
2	2.4	319.8	2.3
3	1.7	235.6	2.9
4	2.4	304.4	2.5
5	2.9	355.6	2.8
6	4.6	249.8	1.8
7	2.3	319.8	1.0
8	3.2	302.3	-0.3
9	3.3	276.9	-0.4
10	4.4	253.0	-0.6
11	5.3	244.9	-0.7
12	4.6	274.2	-0.5
13	3.6	279.4	-0.5
14	4.2	333.4	-0.4
15	5.9	349.6	-0.0
16	6.3	351.8	-0.3
17	5.9	13.6	-0.3
18	5.4	10.3	-0.3
19	4.3	17.3	-0.4
20	1.9	4.7	0.2
21	1.3	275.7	2.0
22	1.4	169.6	3.4
23	2.5	140.7	4.1
24	3.9	137.9	4.1
1	4.3	114.5	4.4
2	5.9	154.0	4.8
3	7.1	138.4	3.7
4	8.6	[illegible]	2.0
5	7.7	170.1	1.8
6	6.6	163.8	2.2
7	6.9	147.6	0.9
8	13.6	167.1	-0.8

STOP TIME JUNE 23,1981 HOUR 7 MINUTE 21

RELEASE NUMBER 81028 CONTAINMENT PURGE

STARTING TIME JUNE 25,1981 HOUR 14 MINUTE 42

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
14	4.9	355.1	0.7
15	5.8	18.9	0.0
16	5.9	357.8	-0.3
17	6.9	354.1	-0.0
18	5.7	352.6	-0.1
19	3.4	8.2	-0.0
20	3.0	5.0	0.3
21	2.5	319.5	1.2
22	1.6	208.3	1.7
23	0	188.0	3.1
24	.9	233.1	4.7
1	2.1	168.7	5.4

STOP TIME JUNE 26,1981 HOUR 0 MINUTE 26

STARTING TIME JUNE 26,1981 HOUR 16 MINUTE 27

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	10.3	172.6	-1.3
17	12.6	158.0	-1.2
18	13.8	153.5	-1.0
19	10.5	156.3	-0.9
20	7.8	147.7	-0.4
21	7.0	141.1	0.4
22	10.4	152.6	-0.2
23	11.1	159.0	-0.6
24	9.9	155.4	-0.5
1	9.6	182.6	-0.7
2	9.4	175.3	-0.7
3	10.4	174.2	-0.3
4	7.3	207.6	-0.6
5	6.2	159.5	-0.5
6	6.4	130.8	-0.5
7	9.5	161.4	-0.6
8	13.2	158.0	-0.9
9	16.8	167.4	-1.1
10	20.2	172.4	-1.1
11	18.8	163.7	-1.3
12	21.9	164.6	-1.4
13	21.8	170.7	-1.5
14	20.9	171.5	-1.5
15	16.8	161.5	-1.4
16	18.3	163.5	-1.4
17	15.5	151.7	-1.3
18	16.2	144.0	-1.1

19	14.4	145.6	-0.9
20	15.7	143.2	-0.6
21	15.4	141.4	-0.6
22	16.3	147.0	-0.6
23	16.3	154.3	-0.7
24	16.2	161.4	-0.6
1	15.1	167.9	-0.5
2	15.3	179.6	-0.3
3	18.5	188.5	-0.3
4	18.8	194.5	-0.4
5	18.5	196.1	-0.4
6	19.6	196.3	-0.5
7	20.3	198.8	-0.8
8	20.9	206.4	-1.1
9	17.9	200.5	-1.1
10	15.5	199.8	-1.1
11	17.1	196.6	-1.5
12	17.6	196.0	-1.6
13	18.3	193.1	-1.6
14	20.7	196.1	-1.6
15	20.6	199.1	-1.6
16	22.6	197.3	-1.5
17	21.2	196.7	-1.3
18	19.0	190.9	-0.8
19	14.1	183.3	-0.6
20	6.5	277.9	-0.4
21	4.5	291.8	-0.2
22	3.8	106.8	3.0
23	2.3	110.8	1.7
24	3.5	167.8	2.0
1	5.4	316.5	0.7
2	4.3	293.1	-0.1
3	4.6	102.3	-0.1
4	3.0	347.6	0.2
5	2.3	132.5	-0.2
6	1.9	312.1	0.5
7	1.7	237.6	0.9
8	3.8	332.1	1.3

STOP TIME JUNE 29,1981 HOUR 7 MINUTE 20

RELEASE NUMBER 81001 DECAY TANK PURGE

STARTING TIME JAN 20,1981 HOUR 18 MINUTE 29

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	6.0	343.2	-0.5
19	5.2	328.5	0.7
20	7.8	325.7	1.5
21	9.1	330.4	0.9
22	8.4	330.4	0.5
23	6.3	325.1	0.6
24	4.9	329.1	0.7
1	4.1	315.1	0.9
2	4.0	310.3	1.0
3	4.8	322.3	0.9
4	4.4	322.1	1.4
5	3.6	315.6	1.2
6	3.5	308.5	1.1
7	4.3	316.0	1.4
8	3.9	316.0	1.0
9	4.0	324.3	0.9
10	4.6	338.0	0.1
11	5.5	350.2	0.1
12	4.6	353.7	0.2
13	4.0	350.5	0.8

STOP TIME JAN 21,1981 HOUR 12 MINUTE 55

STARTING TIME JAN 21,1981 HOUR 16 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	5.8	322.6	-0.4
17	4.0	292.6	-0.4
18	2.9	235.6	0.9
19	2.4	223.1	2.7
20	3.0	251.2	3.5
21	2.6	267.7	3.9
22	2.9	249.9	2.9

STOP TIME JAN 21,1981 HOUR 21 MINUTE 0

RELEASE NUMBER 81002 DECAY TANK PURGE

STARTING TIME FEB 16,1981 HOUR 19 MINUTE 25

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
19	1.7	263.0	2.9
20	5.0	235.4	3.0
21	7.0	218.7	3.4
22	11.5	220.0	5.0
23	14.0	225.7	5.5
24	14.4	224.7	5.2
1	13.4	217.4	4.0
2	14.6	221.6	2.3
3	18.3	226.8	2.8
4	16.0	243.2	1.7
5	12.6	272.9	1.1
6	9.2	298.0	0.6
7	8.1	300.4	0.5
8	12.4	314.6	0.1
9	13.7	309.6	-0.4
10	14.6	308.6	-0.7
11	16.0	317.9	-0.8
12	18.4	320.1	-1.0
13	19.6	322.1	-1.1
14	19.7	322.2	-1.2
15	19.0	318.5	-1.2
16	16.4	322.8	-0.9
17	16.1	327.4	-0.7
18	9.4	330.8	-0.2
19	4.1	311.4	0.9
20	3.2	278.4	1.8

STOP TIME FEB 19,1981 HOUR 19 MINUTE 28

RELEASE NUMBER 81003 DECAY TANK PURGE

STARTING TIME APR 7,1981 HOUR 18 MINUTE 20

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	3.8	324.8	0.2
19	3.[illegible]	334.3	-0.9
20	2.0	314.0	-0.1
21	1.7	288.6	1.2
22	1.9	313.9	1.7
23	2.2	34.2	0.3
24	3.6	336.2	-0.2
1	6.8	333.6	-0.6
2	7.8	339.2	-0.8
3	9.1	334.5	-0.8
4	6.9	343.6	-0.7
5	6.5	353.8	-0.5
6	9.8	13.2	-0.4
7	9.2	16.1	-0.5
8	9.2	13.2	-1.0
9	10.5	16.3	-1.3
10	11.2	10.8	-1.4
11	10.3	16.6	-1.5
12	10.5	17.5	-1.7
13	9.1	0.0	-1.0
14	9.4	355.1	-0.8
15	9.2	349.8	-0.7
16	8.3	347.3	-0.8
17	7.6	350.1	-0.8
18	6.1	353.6	-0.6
19	4.2	346.4	-0.9

STOP TIME APR 8,1981 HOUR 18 MINUTE 3

RELEASE NUMBER 81004 DECAY TANK PURGE

STARTING TIME APR 29,1981 HOUR 15 MINUTE 5

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
15	16.7	322.3	-1.5
16	14.8	320.4	-1.5
17	15.2	322.0	-1.3
18	13.9	314.7	-1.0
19	12.0	330.6	-0.5
20	7.3	323.7	0.0
21	5.6	325.5	0.4
22	4.3	318.5	0.9
23	4.8	316.8	0.8
24	2.9	311.4	1.5
1	4.0	319.1	1.0

STOP TIME APR 30,1981 HOUR 0 MINUTE 20

RELEASE NUMBER 81005 DECAY TANK PURGE

STARTING TIME MAY 4,1981 HOUR 11 MINUTE 18

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
11	9.4	276.5	-0.7
12	11.8	241.4	-0.9
13	11.6	213.8	-0.7
14	10.4	184.7	-0.7
15	12.2	173.5	-0.7
16	11.4	170.8	-0.7
17	9.6	167.3	-0.6
18	8.1	159.1	-0.6
19	8.8	162.9	-0.8
20	7.7	157.5	-0.7
21	6.8	152.9	-0.8
22	4.9	141.9	-1.0
23	3.7	139.8	-0.9

STOP TIME MAY 4,1981 HOUR 22 MINUTE 22

RELEASE NUMBER 81006 DECAY TANK PURGE

STARTING TIME JUNE 16,1981 HOUR 16 MINUTE 45

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	6.3	311.0	-0.7
17	5.8	294.8	-0.6
18	5.6	267.0	-0.7
19	5.6	233.6	-0.6
20	4.8	204.0	0.8
21	6.2	197.6	1.9
22	8.1	202.1	3.0
23	8.2	199.0	4.1
24	8.3	190.1	3.9
1	10.1	198.1	1.9
2	10.3	196.4	0.8
3	11.7	183.5	0.4
4	13.0	188.5	-0.1
5	14.8	188.1	-0.2
6	16.6	180.0	-0.5
7	18.2	178.2	-0.7
8	21.5	179.3	-1.1
9	23.6	181.9	-1.3
10	25.4	185.5	-1.4
11	26.5	194.6	-1.6
12	26.0	204.3	-1.6
13	25.6	210.2	-1.6
14	25.7	210.2	-1.5
15	23.4	214.5	-1.4

STOP TIME JUNE 17,1981 HOUR 14 MINUTE 5

Section V

Environmental Monitoring (5.9.4.b)

5.9.4.b Environmental Monitoring

1. (a) and (b) The number of sampling locations, sample collection frequency, and the number of samples collected 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 1981, 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.

Table 1 Sample Collection Program

Sample Class	Collection Frequency	Sample Locations	Number of Samples Collected This Period
Air Particulates	Weekly	Five (5)	130
Airborne Iodine	Weekly	Five (5)	130
Background Radiation (TLD)	Quarterly	Eleven (11) Four (4)	22 8
Background Radiation (G-M Survey)	Quarterly	Fifteen (15)	30
Fresh Milk	Weekly Quarterly	Four (4) Four (4)	39 6
Preserved Milk	Quarterly Comp.	Five (5)	8
Surface Water	Monthly	Five (5)	30
Well Water	Quarterly Comp.	Four (4)	8
Quality Assurance Water	Monthly	One (1)	7
Precipitation	Monthly Comp. Quarterly Comp.	One (1) One (1)	3 1
Cattlefeed	Quarterly	Six (6)	12
Vegetation	Annually	Six (6)	0
Soil	Annually	Four (4)	0
Mud and Silt	Annually	Three (3)	3
Wildlife	Annually	One (1)	0
Fish	Annually	Three (3)	0

Table 2 Sampling Locations

Station Code	Site Description	Site Azimuth and Degrees*
0-1a	On site	0.2 mi. @ 294°
0-1b	On site crop fields	0.4 mi. @ 225-285°
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 the oxigester	0.1 mi. @ 74°
0-6	0.5 miles downstream from Reactor Containment Bldg. on west bank of Missouri R.	0.4 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 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	0.1 mi. @ 113°
0-15	Bridge on Hwy. 73 at north edge of DeSoto, NE	1.6 mi. @ 144°

Table 2 (Continued)

Station Code	Site Description	Site Azimuth and Degrees*
0-16	Smith Farm	1.9 mi. @ 133°
0-17	Dana College, Blair, NE	4.3 mi. @ 295°
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	1.1 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. @ 334°
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	Sonderup/Sorenson Farm	3.7 mi. @ 328°
0-33	Garden 2 miles NW of site entrance on east side of Hwy. 30	1.5 mi. @ 271°
0-34	C. Marr and Sons field	4.3 mi. @ 147°
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	Above & Below Station
0-44	A. Wulf Farm	8.8 mi. @ 225°

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

Table 3 Sample Collection and Analysis Program

Sample Type	Collection Type and Frequency[a]	Analysis Type and Frequency[b]	Number of Sites and Sample Code	Location Code[c]	Site Type Control/ Indicator
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]	4: OWW-A	0-8c	I
		Tritium (QC)	OWW-E	0-16	I
			OWW-F	0-22	I
			OWW-I	0-25	I

Table 3 (Continued)

Sample Type	Collection Type and Frequency[a]	Analysis Type and Frequency[b]	Number of Sites and Sample Code	Location Code[c]	Site Type Control/ Indicator
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	G/W (pasture season only)	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	0-42	I
			OVD	0-36	I
			OVE	0-8d	I
			OVG	0-1b	I
Cattlefeed Beef	G/Q	Gamma Spec. Sr-90	2: OCA	0-31	I
			OCB	0-32	I
Cattlefeed 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)[g]	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
Wildlife	A	Gamma Spec. on flesh Sr-90 on bone	1: ORA	-	I

Table 3 (Continued)

[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 as 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

SENSITIVITY REQUIREMENTS

Table 4

Sample	Units	Gross Beta	Sr-90	H-3	Gamma Scan I-131	Gamma Scan 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, Cattlefeed	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.

Table 5

Environmental Radiological Monitoring Program

Name of Facility: Fort Calhoun Nuclear Station Unit No. 1 Docket Number: 50-285

Location of Facility: Washington (County) Nebraska (State) Reporting Period: January - June 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean[1] (Range)	Location with Highest Mean: Name, Distance and Direction	Location with Highest Mean: Mean (Range)	Control Locations Mean[1] (Range)	Number Non-Routine Reported Measurements
Air Particulates	Gross β 130	0.02	0.28 (104/104) 0.07-0.51	500' SE of Reactor 0.1 mi @ 74°	0.30 0.07-0.51	0.21 (24/26) 0.03-0.39	0
	Ce-144 30	0.01	0.16 (14/24) 0.01-0.27	500' SE of Reactor 0.1 mi @ 74°	0.18 0.10-0.25	0.20 (3/6) 0.13-0.26	0
	Zr-95 30	0.01	0.06 (22/24) 0.01-0.10	500' SE of Reactor 0.1 mi @ 74°	0.06 0.01-0.10	0.05 (2/6) 0.03-0.06	0
	Nb-95 30	0.01	0.08 (22/24) 0.01-0.17	1200' NW of Reactor 0.2 mi @ 294°	0.10 0.04-0.17	0.10 (3/6) 0.06-0.14	0
	Ce-141 30	0.01	0.08 (15/24) 0.01-0.17	Fort Calhoun Fire Station 4.8 mi @ 149°	0.09 0.05-0.12	0.04 (2/6) 0.02-0.06	0
	Ru-103 30	0.01	0.03 (20/24) 0.01-0.09	1200' NW of Reactor 0.2 mi @ 294°	0.03 0.02-0.08	0.03 (3/6) 0.02-0.04	0
	Cs-137 30	0.01	0.01 (1/24) 0.01	Blair Substation 3.1 mi @ 236°	0.01 0.01	ALL LLD	0
	Other γ 30	0.01	ALL LLD	Not Applicable		ALL LLD	0
Airborne Iodine (pCi/m^3)	I-131 130	0.2	ALL LLD	Not Applicable		ALL LLD	0
Background Radiation TLD (mR/week)	γ Dose 22	0.1	1.3 (18/18) 0.9-2.0	Hwy 73 Entrance 0.5 mi @ 206°	1.8 1.6-2.0	1.3 (4/4) 0.7-1.6	0

[1]Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5 (Continued)

Facility: Fort Calhoun Nuclear Station Unit No. 1

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean[1] (Range)	Location with Highest Mean		Control Locations Mean[1] (Range)	Number Non-Routine Reported Measurements
				Name, Distance and Direction	Mean (Range)		
Background Radiation G-M Survey (mR/hour)	Beta-Gamma 30	0.05	ALL LLD	Not Applicable		ALL LLD	0
Fresh Milk (pCi/l)	I-131 39	0.5	ALL LLD	Not Applicable		ALL LLD	0
	γ Spec. 6	2.0	ALL LLD	Not Applicable		ALL LLD	0
Preserved Milk (pCi/l)	Gross β 8	6.0	1170 (3/3) 710-1500	Miller Farm 0.8 mi @ 206°	1300 1300	1170 (5/5) 850-1600	0
	Sr-90 8	1.0	2 (1/3) 2	Flynn Dairy 3.4 mi @ 310°	2 2	1.5 (4/5) 1-2	0
Surface Water (pCi/l)	Gross β 30	0.5	9.4 (24/24) 5.7-16.1	Met. Utilities 17 mi @ 156°	9.8 8.4-11.8	7.9 (6/6) 5.0-10.7	0
	Tritium 30	200	615 (15/18) 140-3400	2000' Downstream 0.4 mi @ 106°	1055 140-3400	358 (12/12) 180-740	0
Well Water (pCi/l)	Gross β 8	0.5	8.1 (8/8) 2.7-19.1	Smith Farm 1.9 mi @ 133°	15.7 12.2-19.1	Not Measured	0
	Tritium 8	200	252 (6/8) 130-370	Smith Farm 1.9 mi @ 133°	320 270-320	Not Measured	0
Quality Assurance Water (pCi/l)	Gross β 7	0.5	7.7 (7/7) 5.1-14.1	Not Applicable		Not Measured	0
	Tritium 7	200	278 (5/7) 110-520	Not Applicable		Not Measured	0
	γ Spec. 7	2.0	ALL LLD	Not Applicable		Not Measured	0

[1]Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5 (Continued)

Facility: Fort Calhoun Nuclear Station Unit No. 1

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean[1] (Range)	Location with Highest Mean Name, Distance and Direction	Mean (Range)	Control Locations Mean[1] (Range)	Number Non-Routine Reported Measurements
Cattlefeed (pCi/g wet)	γ Spec. 12	0.2	ALL LLD	Not Applicable		ALL LLD	0
	Sr-90 12	0.03	0.04 (1/12) 0.04	Sonderup Farm 3.7 mi @ 328°	0.04 0.04	ALL LLD	0
Mud and Silt (pCi/g dry)	γ Spec. 3	0.1	ALL LLD	Not Applicable		ALL LLD	0
	Sr-90 3	0.008	0.017 (2/2) 0.014-0.020	2000' Downstream 0.4 mi @ 106°	0.020 0.020	0.009 (1/1) 0.009	0
Precipitation (pCi/l)	Gross β 4	0.5	68.5 (4/4) 12.7-85.0	AgriCo Ammonia Plant 1.8 mi @ 325°	68.5 12.7-85.0	Not Measured	0
	Tritium 2	200	240 (2/2) 230-250	AgriCo Ammonia Plant 1.8 mi @ 325°	240 230-250	Not Measured	0
	Sr-89 2	5.0	ALL LLD	Not Applicable		Not Measured	0
	Sr-90 2	1.0	6 (2/2) 6	AgriCo Ammonia Plant 1.8 mi @ 325°		Not Measured	0
	Ce-144 2	2.0	22.5 (1/2) 22.5	AgriCo Ammonia Plant 1.8 mi @ 325°	22.5 22.5	Not Measured	0
	Cs-137 2	2.0	5.9 (1/2) 5.9	AgriCo Ammonia Plant 1.8 mi @ 325°	5.9 5.9	Not Measured	0
	Other γ 2	2.0	ALL LLD	Not Applicable		Not Measured	0

[1]Mean and range based on detectable measurements only. Fractions indicated in parentheses.

SECTION VI

Environmental Technical Specifications - Non-Radiological

(Appendix B)

This has changed to an Annual Report per Technical Specification (Appendix B, Section 5, Page 4-1) per Amendment No. 51.

See Annual Report distributed in February, 1982.

Section VII

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

January 1, 1981 to June 30, 1981

VII. 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 VII-A-1 through VII-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 1981 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 VII-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 VII-C-1 through VII-C-11.

The inputs to LADTAP for the semiannual period from January through June 1981 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 VII-C-1 through VII-C-7 was used. For

Tables VII-C-8 through VII-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 VII-C-8 through VII-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 VII-D-1 through VII-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 I RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 1 RES
AT 4.58 MILES N

SEMI-ANNUAL BETA AIR DOSE = 4.78E-04 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.74E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.04E-04	1.04E-04	1.04E-04	1.04E-04	1.04E-04	1.04E-04	1.08E-04	2.39E-04
GROUND	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.24E-06	1.44E-06
INHAL								
ADULT	8.80E-05	8.80E-05	2.88E-08	8.80E-05	8.80E-05	9.20E-05	8.80E-05	8.80E-05
TEEN	8.85E-05	8.85E-05	3.77E-08	8.86E-05	8.86E-05	9.35E-05	8.86E-05	8.85E-05
CHILD	7.83E-05	7.83E-05	4.73E-08	7.83E-05	7.83E-05	8.38E-05	7.83E-05	7.83E-05
INFANT	4.50E-05	4.50E-05	3.05E-08	4.50E-05	4.50E-05	5.01E-05	4.51E-05	4.50E-05

FORT CALHOUN I RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 13 BEEF
AT 1.79 MILES N

SEMI-ANNUAL BETA AIR DOSE = 3.34E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.25E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.47E-04	7.47E-04	7.47E-04	7.47E-04	7.47E-04	7.47E-04	7.79E-04	2.12E-03
MEAT								
ADULT	1.60E-04	1.59E-04	8.81E-07	1.60E-04	1.59E-04	1.91E-04	1.59E-04	1.59E-04
TEEN	9.51E-05	9.47E-05	7.14E-07	9.57E-05	9.51E-05	1.18E-04	9.47E-05	9.46E-05
CHILD	1.15E-04	1.14E-04	1.28E-06	1.16E-04	1.15E-04	1.50E-04	1.14E-04	1.14E-04

TABLE VII-A-1

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 2 BEEF,VEG,RES
AT 1.91 MILES NNE

SEMI-ANNUAL BETA AIR DOSE = 2.33E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 9.51E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.75E-04	5.75E-04	5.75E-04	5.75E-04	5.75E-04	5.75E-04	5.98E-04	1.56E-03
GROUND	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	8.83E-06
VEGET								
ADULT	7.59E-04	7.53E-04	7.17E-06	7.61E-04	7.56E-04	9.34E-04	7.53E-04	7.52E-04
TEEN	8.67E-04	8.62E-04	1.03E-05	8.75E-04	8.66E-04	1.01E-03	8.63E-04	8.51E-04
CHILD	1.34E-03	1.33E-03	2.24E-05	1.36E-03	1.34E-03	1.56E-03	1.34E-03	1.33E-03
MEAT								
ADULT	1.09E-04	1.08E-04	6.02E-07	1.09E-04	1.09E-04	1.30E-04	1.08E-04	1.08E-04
TEEN	6.48E-05	6.45E-05	4.88E-07	6.53E-05	6.48E-05	8.05E-05	6.46E-05	6.45E-05
CHILD	7.81E-05	7.79E-05	8.77E-07	7.89E-05	7.83E-05	1.02E-04	7.80E-05	7.79E-05
INHAL								
ADULT	4.17E-04	4.17E-04	1.51E-07	4.17E-04	4.17E-04	4.37E-04	4.17E-04	4.17E-04
TEEN	4.19E-04	4.19E-04	1.97E-07	4.20E-04	4.20E-04	4.44E-04	4.20E-04	4.19E-04
CHILD	3.71E-04	3.71E-04	2.47E-07	3.71E-04	3.71E-04	3.99E-04	3.71E-04	3.71E-04
INFANT	2.13E-04	2.13E-04	1.59E-07	2.13E-04	2.13E-04	2.39E-04	2.14E-04	2.13E-04

TABLE VII-A-2

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 3 VEG.RES
AT 1.52 MILES NE

SEMI-ANNUAL BETA AIR DOSE = 3.73E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.52E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.21E-04	9.21E-04	9.21E-04	9.21E-04	9.21E-04	9.21E-04	9.56E-04	2.49E-03
GROUND	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	8.83E-06
VEGET								
ADULT	1.21E-03	1.20E-03	7.17E-06	1.21E-03	1.21E-03	1.39E-03	1.20E-03	1.20E-03
TEEN	1.38E-03	1.38E-03	1.03E-05	1.39E-03	1.38E-03	1.53E-03	1.38E-03	1.38E-03
CHILD	2.14E-03	2.13E-03	2.24E-05	2.16E-03	2.14E-03	2.36E-03	2.14E-03	2.13E-03
INHAL								
ADULT	6.67E-04	6.67E-04	2.45E-07	6.67E-04	6.67E-04	6.99E-04	6.67E-04	6.67E-04
TEEN	6.71E-04	6.71E-04	3.21E-07	6.71E-04	6.71E-04	7.11E-04	6.72E-04	6.71E-04
CHILD	5.93E-04	5.93E-04	4.01E-07	5.94E-04	5.94E-04	6.38E-04	5.94E-04	5.93E-04
INFANT	3.41E-04	3.41E-04	2.58E-07	3.41E-04	3.41E-04	3.82E-04	3.42E-04	3.41E-04

TABLE VII-A-3

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 4 VEG.RES
AT 4.75 MILES ENE

SEMI-ANNUAL BETA AIR DOSE = 4.27E-04 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.48E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.78E-05	8.78E-05	8.78E-05	8.78E-05	8.78E-05	8.78E-05	9.20E-05	2.60E-04
GROUND	4.46E-07	4.46E-07	4.46E-07	4.46E-07	4.46E-07	4.46E-07	4.46E-07	5.20E-07
VEGET								
ADULT	1.44E-04	1.44E-04	4.22E-07	1.44E-04	1.44E-04	1.54E-04	1.44E-04	1.44E-04
TEEN	1.65E-04	1.65E-04	6.09E-07	1.65E-04	1.65E-04	1.73E-04	1.65E-04	1.65E-04
CHILD	2.55E-04	2.55E-04	1.32E-06	2.56E-04	2.55E-04	2.68E-04	2.55E-04	2.55E-04
INHAL								
ADULT	7.97E-05	7.96E-05	2.60E-08	7.97E-05	7.97E-05	8.33E-05	7.97E-05	7.96E-05
TEEN	8.02E-05	8.01E-05	3.41E-08	8.02E-05	8.02E-05	8.46E-05	8.02E-05	8.01E-05
CHILD	7.09E-05	7.09E-05	4.27E-08	7.09E-05	7.09E-05	7.58E-05	7.09E-05	7.09E-05
INFANT	4.08E-05	4.08E-05	2.76E-08	4.08E-05	4.08E-05	4.53E-05	4.08E-05	4.07E-05

TABLE VII-A-4

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 5 RES
AT 4.68 MILES E

SEMI-ANNUAL BETA AIR DOSE = 7.25E-04 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 2.96E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.79E-04	1.79E-04	1.79E-04	1.79E-04	1.79E-04	1.79E-04	1.86E-04	4.85E-04
GROUND	6.94E-07	6.94E-07	6.94E-07	6.94E-07	6.94E-07	6.94E-07	6.94E-07	8.10E-07
INHAL								
ADULT	1.30E-04	1.30E-04	4.08E-06	1.30E-04	1.30E-04	1.35E-04	1.30E-04	1.30E-04
TEEN	1.30E-04	1.30E-04	5.35E-08	1.31E-04	1.31E-04	1.38E-04	1.31E-04	1.30E-04
CHILD	1.15E-04	1.15E-04	6.71E-08	1.15E-04	1.15E-04	1.23E-04	1.15E-04	1.15E-04
INFANT	6.63E-05	6.63E-05	4.35E-08	6.64E-05	6.64E-05	7.37E-05	6.64E-05	6.63E-05

TABLE VII-A-5

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 6 VEG,RES
AT 4.20 MILES ESE

SEMI-ANNUAL BETA AIR DOSE = 1.45E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 5.91E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.58E-04	3.58E-04	3.58E-04	3.58E-04	3.58E-04	3.58E-04	3.72E-04	9.70E-04
GROUND	1.32E-06	1.32E-06	1.32E-06	1.32E-06	1.32E-06	1.32E-06	1.32E-06	1.55E-06
VEGET								
ADULT	4.69E-04	4.68E-04	1.26E-06	4.70E-04	4.69E-04	5.00E-04	4.68E-04	4.68E-04
TEEN	5.37E-04	5.36E-04	1.81E-06	5.38E-04	5.37E-04	5.62E-04	5.36E-04	5.36E-04
CHILD	8.31E-04	8.30E-04	3.91E-06	8.34E-04	8.31E-04	8.70E-04	8.30E-04	8.30E-04
INHAL								
ADULT	2.59E-04	2.59E-04	8.82E-08	2.59E-04	2.59E-04	2.71E-04	2.59E-04	2.59E-04
TEEN	2.61E-04	2.61E-04	1.16E-07	2.61E-04	2.61E-04	2.76E-04	2.61E-04	2.61E-04
CHIL	2.31E-04	2.31E-04	1.45E-07	2.31E-04	2.31E-04	2.47E-04	2.31E-04	2.31E-04
INFANT	1.33E-04	1.33E-04	9.34E-08	1.33E-04	1.33E-04	1.48E-04	1.33E-04	1.33E-04

TABLE VII-A-6

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 7 VEG.RES
AT 1.66 MILES SE

SEMI-ANNUAL BETA AIR DOSE = 9.84E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 4.01E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.43E-03	2.43E-03	2.43E-03	2.43E-03	2.43E-03	2.43E-03	2.52E-03	6.58E-03
GROUND	1.80E-05	1.80E-05	1.80E-05	1.80E-05	1.80E-05	1.80E-05	1.80E-05	2.10E-05
VEGET								
ADULT	3.19E-03	3.18E-03	1.70E-05	3.20E-03	3.18E-03	3.61E-03	3.18E-03	3.18E-03
TEEN	3.65E-03	3.64E-03	2.46E-05	3.67E-03	3.65E-03	3.99E-03	3.64E-03	3.64E-03
CHILD	5.64E-03	5.63E-03	5.31E-05	5.68E-03	5.65E-03	6.17E-03	5.64E-03	5.63E-03
INHAL								
ADULT	1.76E-03	1.76E-03	6.34E-07	1.76E-03	1.76E-03	1.84E-03	1.76E-03	1.76E-03
TEEN	1.77E-03	1.77E-03	8.31E-07	1.77E-03	1.77E-03	1.88E-03	1.77E-03	1.77E-03
CHILD	1.57E-03	1.57E-03	1.04E-06	1.57E-03	1.57E-03	1.68E-03	1.57E-03	1.57E-03
INFANT	9.00E-04	9.00E-04	6.69E-07	9.01E-04	9.01E-04	1.01E-03	9.02E-04	9.00E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 8 PORK
AT 1.97 MILES SE

SEMI-ANNUAL BETA AIR DOSE = 6.73E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 2.75E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.73E-03	4.50E-03
MEAT								
ADULT	3.13E-04	3.12E-04	9.28E-07	3.14E-04	3.13E-04	3.46E-04	3.12E-04	3.12E-04
TEEN	1.87E-04	1.86E-04	7.52E-07	1.87E-04	1.87E-04	2.11E-04	1.86E-04	1.86E-04
CHILD	2.25E-04	2.25E-04	1.35E-06	2.27E-04	2.26E-04	2.62E-04	2.25E-04	2.25E-04

TABLE VII-A-7

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 9 VEG.RES
AT 0.90 MILES SSE

SEMI-ANNUAL BETA AIR DOSE = 2.83E-02 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.04E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.23E-03	6.23E-03	6.23E-03	6.23E-03	6.23E-03	6.23E-03	6.51E-03	1.78E-02
GROUND	8.56E-05	8.56E-05	8.56E-05	8.56E-05	8.56E-05	8.56E-05	8.56E-05	9.99E-05
VEGET								
ADULT	9.44E-03	9.37E-03	8.11E-05	9.46E-03	9.40E-03	1.14E-02	9.37E-03	9.36E-03
TEEN	1.08E-02	1.07E-02	1.17E-04	1.09E-02	1.08E-02	1.24E-02	1.07E-02	1.07E-02
CHILD	1.67E-02	1.66E-02	2.53E-04	1.68E-02	1.67E-02	1.92E-02	1.66E-02	1.66E-02
INHAL								
ADULT	5.19E-03	5.19E-03	1.93E-06	5.19E-03	5.19E-03	5.44E-03	5.19E-03	5.19E-03
TEEN	5.22E-03	5.22E-03	2.53E-06	5.22E-03	5.22E-03	5.53E-03	5.22E-03	5.22E-03
CHILD	4.62E-03	4.61E-03	3.17E-06	4.62E-03	4.62E-03	4.96E-03	4.62E-03	4.61E-03
INFANT	2.65E-03	2.65E-03	2.03E-06	2.66E-03	2.65E-03	2.97E-03	2.66E-03	2.65E-03

TABLE VII-A-8

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 10 PORK
AT 1.11 MILES SSE

SEMI-ANNUAL BETA AIR DOSE = 1.71E-02 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 6.97E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.22E-03	4.22E-03	4.22E-03	4.22E-03	4.22E-03	4.22E-03	4.38E-03	1.14E-02
MEAT								
ADULT	7.97E-04	7.93E-04	3.76E-06	7.99E-04	7.95E-04	9.31E-04	7.93E-04	7.93E-04
TEEN	4.75E-04	4.73E-04	3.05E-06	4.78E-04	4.75E-04	5.73E-04	4.73E-04	4.73E-04
CHILD	5.73E-04	5.71E-04	5.48E-06	5.77E-04	5.74E-04	7.23E-04	5.72E-04	5.71E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 14 COW
AT 2.77 MILES SSE

SEMI-ANNUAL BETA AIR DOSE = 2.23E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 9.08E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.50E-04	5.50E-04	5.50E-04	5.50E-04	5.50E-04	5.50E-04	5.71E-04	1.49E-03
COW MILK								
ADULT	2.46E-04	2.43E-04	2.55E-06	2.47E-04	2.45E-04	4.47E-04	2.43E-04	2.43E-04
TEEN	3.19E-04	3.16E-04	4.54E-06	3.23E-04	3.20E-04	6.39E-04	3.17E-04	3.16E-04
CHILD	5.02E-04	5.00E-04	1.08E-05	5.12E-04	5.06E-04	1.14E-03	5.00E-04	4.99E-04
INFANT	7.61E-04	7.58E-04	1.81E-05	7.82E-04	7.68E-04	2.31E-03	7.60E-04	7.58E-04

TABLE VII-A-8
Continued

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 11 VEG.RES
AT 0.80 MILES S

SEMI-ANNUAL BETA AIR DOSE = 8.81E-02 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 3.59E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.17E-02	2.26E-02	5.89E-02
GROUND	2.11E-04	2.11E-04	2.11E-04	2.11E-04	2.11E-04	2.11E-04	2.11E-04	2.47E-04
VEGET								
ADULT	2.86E-02	2.84E-02	2.00E-04	2.87E-02	2.85E-02	3.35E-02	2.84E-02	2.84E-02
TEEN	3.27E-02	3.25E-02	2.89E-04	3.29E-02	3.27E-02	3.67E-02	3.25E-02	3.25E-02
CHILD	5.05E-02	5.04E-02	6.24E-04	5.10E-02	5.06E-02	5.68E-02	5.05E-02	5.04E-02
INHAL								
ADULT	1.57E-02	1.57E-02	5.90E-06	1.57E-02	1.57E-02	1.65E-02	1.58E-02	1.57E-02
TEEN	1.58E-02	1.58E-02	7.73E-06	1.59E-02	1.58E-02	1.68E-02	1.59E-02	1.58E-02
CHILD	1.40E-02	1.40E-02	9.66E-06	1.40E-02	1.40E-02	1.51E-02	1.40E-02	1.40E-02
INFANT	8.06E-03	8.06E-03	6.20E-06	8.06E-03	8.06E-03	9.03E-03	8.07E-03	8.06E-03

TABLE VII-A-9

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 12 PORK
AT 0.97 MILES S

SEMI-ANNUAL BETA AIR DOSE = 5.18E-02 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 2.11E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.28E-02	1.28E-02	1.28E-02	1.28E-02	1.28E-02	1.28E-02	1.33E-02	3.46E-02
MEAT								
ADULT	2.41E-03	2.40E-03	1.00E-05	2.42E-03	2.41E-03	2.77E-03	2.40E-03	2.40E-03
TEEN	1.44E-03	1.43E-03	8.13E-06	1.45E-03	1.44E-03	1.70E-03	1.43E-03	1.43E-03
CHILD	1.73E-03	1.73E-03	1.46E-05	1.75E-03	1.74E-03	2.13E-03	1.73E-03	1.73E-03

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 13 COW
AT 2.77 MILES S

SEMI-ANNUAL BETA AIR DOSE = 5.04E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.84E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.10E-03	1.10E-03	1.10E-03	1.10E-03	1.10E-03	1.10E-03	1.15E-03	3.15E-03
COW MILK								
ADULT	5.70E-04	5.65E-04	4.49E-06	5.72E-04	5.68E-04	9.21E-04	5.65E-04	5.64E-04
TEEN	7.41E-04	7.35E-04	7.99E-06	7.48E-04	7.42E-04	1.30E-03	7.36E-04	7.35E-04
CHILD	1.17E-03	1.16E-03	1.89E-05	1.18E-03	1.17E-03	2.28E-03	1.16E-03	1.16E-03
INFANT	1.77E-03	1.76E-03	3.19E-05	1.81E-03	1.78E-03	4.47E-03	1.77E-03	1.76E-03

TABLE VII-A-9
Continued

FORT CALHOUN I RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 14 VEG,RES
AT 0.64 MILES SSW

SEMI-ANNUAL BETA AIR DOSE = 3.50E-02 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.31E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.84E-03	7.84E-03	7.84E-03	7.84E-03	7.84E-03	7.84E-03	8.18E-03	2.22E-02
GROUND	1.27E-04	1.27E-04	1.27E-04	1.27E-04	1.27E-04	1.27E-04	1.27E-04	1.48E-04
VEGET								
ADULT	1.17E-02	1.15E-02	1.20E-04	1.17E-02	1.16E-02	1.46E-02	1.15E-02	1.15E-02
TEEN	1.33E-02	1.32E-02	1.73E-04	1.34E-02	1.33E-02	1.57E-02	1.32E-02	1.32E-02
CHILD	2.05E-02	2.05E-02	3.74E-04	2.08E-02	2.06E-02	2.43E-02	2.05E-02	2.05E-02
INHAL								
ADULT	6.39E-03	6.39E-03	2.44E-06	6.39E-03	6.39E-03	6.71E-03	6.39E-03	6.39E-03
TEEN	6.43E-03	6.43E-03	3.19E-06	6.43E-03	6.43E-03	6.82E-03	6.44E-03	6.43E-03
CHILD	5.69E-03	5.69E-03	3.99E-06	5.69E-03	5.69E-03	6.12E-03	5.69E-03	5.69E-03
INFANT	3.27E-03	3.27E-03	2.56E-06	3.27E-03	3.27E-03	3.67E-03	3.27E-03	3.27E-03

FORT CALHOUN I RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 15 COW,BEEF
AT 0.65 MILES SSW

SEMI-ANNUAL BETA AIR DOSE = 3.42E-02 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.39E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.44E-03	8.44E-03	8.44E-03	8.44E-03	8.44E-03	8.44E-03	8.77E-03	2.29E-02
MEAT								
ADULT	1.60E-03	1.59E-03	9.78E-06	1.60E-03	1.59E-03	1.95E-03	1.59E-03	1.59E-03
TEEN	9.51E-04	9.47E-04	7.93E-06	9.58E-04	9.51E-04	1.21E-03	9.47E-04	9.46E-04
CHILD	1.15E-03	1.14E-03	1.43E-05	1.16E-03	1.15E-03	1.54E-03	1.14E-03	1.14E-03
COW MILK								
ADULT	3.80E-03	3.73E-03	6.22E-05	3.83E-03	3.78E-03	8.69E-03	3.73E-03	3.72E-03
TEEN	4.93E-03	4.86E-03	1.11E-04	5.03E-03	4.95E-03	1.27E-02	4.87E-03	4.85E-03
CHILD	7.74E-03	7.67E-03	2.62E-04	7.97E-03	7.82E-03	2.32E-02	7.69E-03	7.66E-03
INFANT	1.17E-02	1.16E-02	4.42E-04	1.22E-02	1.19E-02	4.94E-02	1.17E-02	1.16E-02

TABLE VII-A-10

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 16 RES
AT 0.74 MILES SW

SEMI-ANNUAL BETA AIR DOSE = 1.81E-02 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 7.39E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.47E-03	4.47E-03	4.47E-03	4.47E-03	4.47E-03	4.47E-03	4.65E-03	1.21E-02
GROUND	3.15E-05	3.15E-05	3.15E-05	3.15E-05	3.15E-05	3.15E-05	3.15E-05	3.58E-05
INHAL								
ADULT	3.24E-03	3.24E-03	1.25E-06	3.24E-03	3.24E-03	3.40E-03	3.24E-03	3.24E-03
TEEN	3.26E-03	3.26E-03	1.64E-06	3.26E-03	3.26E-03	3.46E-03	3.27E-03	3.26E-03
CHILD	2.88E-03	2.88E-03	2.05E-06	2.89E-03	2.89E-03	3.11E-03	2.89E-03	2.88E-03
INFANT	1.66E-03	1.66E-03	1.31E-06	1.66E-03	1.66E-03	1.86E-03	1.66E-03	1.66E-03

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 1 VEG
AT 0.84 MILES SW

SEMI-ANNUAL BETA AIR DOSE = 1.35E-02 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 5.49E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.32E-03	3.32E-03	3.32E-03	3.32E-03	3.32E-03	3.32E-03	3.45E-03	9.00E-03
VEGET								
ADULT	4.37E-03	4.35E-03	2.33E-05	4.38E-03	4.36E-03	4.94E-03	4.35E-03	4.35E-03
TEEN	5.00E-03	4.98E-03	3.36E-05	5.02E-03	4.99E-03	5.47E-03	4.98E-03	4.98E-03
CHILD	7.72E-03	7.71E-03	7.27E-05	7.78E-03	7.73E-03	8.45E-03	7.71E-03	7.71E-03

TABLE VII-A-11

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 2 COW,BEEF
AT 1.66 MILES SW

SEMI-ANNUAL BETA AIR DOSE = 2.75E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.12E-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	7.04E-04	1.84E-03
MEAT								
ADULT	1.28E-04	1.27E-04	3.26E-07	1.28E-04	1.28E-04	1.39E-04	1.27E-04	1.27E-04
TEEN	7.61E-05	7.60E-05	2.64E-07	7.64E-05	7.61E-05	8.46E-05	7.60E-05	7.60E-05
CHILD	9.19E-05	9.18E-05	4.75E-07	9.23E-05	9.20E-05	1.05E-04	9.18E-05	9.17E-05
COW MILK								
ADULT	3.02E-04	2.99E-04	2.07E-06	3.03E-04	3.01E-04	4.65E-04	2.99E-04	2.99E-04
TEEN	3.92E-04	3.90E-04	3.69E-06	3.96E-04	3.93E-04	6.52E-04	3.90E-04	3.89E-04
CHILD	6.18E-04	6.16E-04	8.74E-06	6.26E-04	6.21E-04	1.13E-03	6.16E-04	6.15E-04
INFANT	9.37E-04	9.34E-04	1.47E-05	9.54E-04	9.42E-04	2.19E-03	9.35E-04	9.34E-04

TABLE VII-A-11
Continued

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 3 RES
AT 1.10 MILES WSW

SEMI-ANNUAL BETA AIR DOSE = 6.73E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 2.75E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.66E-03	1.73E-03	4.50E-03
GROUND	8.20E-06	8.20E-06	8.20E-06	8.20E-06	8.20E-06	8.20E-06	8.20E-06	9.37E-06
INHAL								
ADULT	1.20E-03	1.20E-03	4.69E-07	1.20E-03	1.20E-03	1.26E-03	1.20E-03	1.20E-03
TEEN	1.21E-03	1.21E-03	6.14E-07	1.21E-03	1.21E-03	1.29E-03	1.21E-03	1.21E-03
CHILD	1.07E-03	1.07E-03	7.67E-07	1.07E-03	1.07E-03	1.15E-03	1.07E-03	1.07E-03
INFANT	6.16E-04	6.16E-04	4.92E-07	6.17E-04	6.16E-04	6.92E-04	6.17E-04	6.16E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 5 COW
AT 4.12 MILES WSW

SEMI-ANNUAL BETA AIR DOSE = 4.37E-04 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.52E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.01E-05	9.01E-05	9.01E-05	9.01E-05	9.01E-05	9.01E-05	9.44E-05	2.66E-04
COW MILK								
ADULT	4.98E-05	4.97E-05	1.54E-07	4.99E-05	4.98E-05	6.19E-05	4.97E-05	4.96E-05
TEEN	6.49E-05	6.47E-05	2.75E-07	6.51E-05	6.49E-05	8.40E-05	6.47E-05	6.47E-05
CHILD	1.02E-04	1.02E-04	6.51E-07	1.03E-04	1.03E-04	1.40E-04	1.02E-04	1.02E-04
INFANT	1.55E-04	1.55E-04	1.10E-06	1.57E-04	1.56E-04	2.48E-04	1.55E-04	1.55E-04

TABLE VII-A-12

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 4 BEEF,VEG
AT 2.45 MILES WSW

SEMI-ANNUAL BETA AIR DOSE = 1.18E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 4.04E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.39E-04	2.39E-04	2.39E-04	2.39E-04	2.39E-04	2.39E-04	2.50E-04	7.13E-04
VEGET								
ADULT	4.02E-04	4.01E-04	9.67E-07	4.02E-04	4.02E-04	4.25E-04	4.01E-04	4.01E-04
TEEN	4.60E-04	4.59E-04	1.40E-06	4.61E-04	4.60E-04	4.79E-04	4.60E-04	4.59E-04
CHILD	7.12E-04	7.11E-04	3.02E-06	7.14E-04	7.12E-04	7.42E-04	7.12E-04	7.11E-04
MEAT								
ADULT	5.78E-05	5.77E-05	8.11E-08	5.78E-05	5.77E-05	6.06E-05	5.77E-05	5.77E-05
TEEN	3.44E-05	3.44E-05	6.58E-08	3.45E-05	3.44E-05	3.65E-05	3.44E-05	3.44E-05
CHILD	4.16E-05	4.16E-05	1.18E-07	4.17E-05	4.16E-05	4.48E-05	4.16E-05	4.15E-05

TABLE VII-A-12
Continued

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 6 VEG.RES
AT 1.20 MILES W

SEMI-ANNUAL BETA AIR DOSE = 5.18E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 2.11E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.28E-03	1.28E-03	1.28E-03	1.28E-03	1.28E-03	1.28E-03	1.33E-03	3.46E-03
GROUND	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	8.83E-06
VEGET								
ADULT	1.68E-03	1.67E-03	7.17E-06	1.68E-03	1.68E-03	1.85E-03	1.67E-03	1.67E-03
TEEN	1.92E-03	1.91E-03	1.03E-05	1.93E-03	1.92E-03	2.06E-03	1.92E-03	1.91E-03
CHILD	2.97E-03	2.96E-03	2.24E-05	2.99E-03	2.97E-03	3.19E-03	2.97E-03	2.96E-03
INHAL								
ADULT	9.26E-04	9.26E-04	3.50E-07	9.26E-04	9.26E-04	9.72E-04	9.27E-04	9.26E-04
TEEN	9.32E-04	9.32E-04	4.58E-07	9.32E-04	9.32E-04	9.89E-04	9.33E-04	9.32E-04
CHILD	8.24E-04	8.24E-04	5.72E-07	8.25E-04	8.24E-04	8.81E-04	8.25E-04	8.24E-04
INFANT	4.74E-04	4.74E-04	3.67E-07	4.74E-04	4.74E-04	5.32E-04	4.75E-04	4.74E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 7 PORK
AT 1.23 MILES W

SEMI-ANNUAL BETA AIR DOSE = 5.05E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.93E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.16E-03	1.16E-03	1.16E-03	1.16E-03	1.16E-03	1.16E-03	1.21E-03	3.25E-03
MEAT								
ADULT	2.39E-04	2.38E-04	5.78E-07	2.39E-04	2.38E-04	2.59E-04	2.38E-04	2.38E-04
TEEN	1.42E-04	1.42E-04	4.69E-07	1.43E-04	1.42E-04	1.57E-04	1.42E-04	1.42E-04
CHILD	1.72E-04	1.71E-04	8.43E-07	1.72E-04	1.72E-04	1.95E-04	1.71E-04	1.71E-04

TABLE VII-A-13

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 8 BEEF,VEG,RES,PRK
AT 2.03 MILES WNW

SEMI-ANNUAL BETA AIR DOSE = 2.12E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 3.66E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.24E-04	5.24E-04	5.24E-04	5.24E-04	5.24E-04	5.24E-04	5.45E-04	1.42E-03
GROUND	3.47E-06	3.47E-06	3.47E-06	3.47E-06	3.47E-06	3.47E-06	3.47E-06	4.05E-06
VEGET								
ADULT	6.89E-04	6.86E-04	3.29E-06	6.89E-04	6.87E-04	7.69E-04	6.86E-04	6.85E-04
TEEN	7.87E-04	7.85E-04	4.74E-06	7.91E-04	7.87E-04	8.54E-04	7.85E-04	7.85E-04
CHILD	1.22E-03	1.22E-03	1.03E-05	1.23E-03	1.22E-03	1.32E-03	1.22E-03	1.22E-03
MEAT								
ADULT	9.88E-05	9.85E-05	2.76E-07	9.89E-05	9.87E-05	1.09E-04	9.85E-05	9.35E-05
TEEN	5.89E-05	5.88E-05	2.24E-07	5.91E-05	5.89E-05	6.61E-05	5.88E-05	5.88E-05
CHILD	7.11E-05	7.10E-05	4.02E-07	7.14E-05	7.12E-05	8.21E-05	7.10E-05	7.10E-05
INHAL								
ADULT	3.80E-04	3.80E-04	1.35E-07	3.80E-04	3.80E-04	3.98E-04	3.80E-04	3.80E-04
TEEN	3.82E-04	3.82E-04	1.77E-07	3.82E-04	3.82E-04	4.05E-04	3.82E-04	3.82E-04
CHILD	3.38E-04	3.38E-04	2.21E-07	3.38E-04	3.38E-04	3.63E-04	3.38E-04	3.38E-04
INFANT	1.94E-04	1.94E-04	1.43E-07	1.94E-04	1.94E-04	2.17E-04	1.95E-04	1.94E-04

TABLE VII-A-14

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 9 VEG.RES
AT 2.58 MILES NW

SEMI-ANNUAL BETA AIR DOSE = 2.28E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 9.29E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.63E-04	5.63E-04	5.63E-04	5.63E-04	5.63E-04	5.63E-04	5.85E-04	1.52E-03
GROUND	3.15E-06	3.15E-06	3.15E-06	3.15E-06	3.15E-06	3.15E-06	3.15E-06	3.68E-06
VEGET								
ADULT	7.38E-04	7.36E-04	2.99E-06	7.39E-04	7.37E-04	8.11E-04	7.36E-04	7.35E-04
TEEN	8.45E-04	8.42E-04	4.31E-06	8.48E-04	8.44E-04	9.05E-04	8.43E-04	8.42E-04
CHILD	1.31E-03	1.30E-03	9.32E-06	1.31E-03	1.31E-03	1.40E-03	1.31E-03	1.30E-03
INHAL								
ADULT	4.08E-04	4.07E-04	1.43E-07	4.08E-04	4.08E-04	4.37E-04	4.08E-04	4.07E-04
TEEN	4.10E-04	4.10E-04	1.88E-07	4.10E-04	4.10E-04	4.34E-04	4.10E-04	4.10E-04
CHILD	3.63E-04	3.63E-04	2.35E-07	3.63E-04	3.63E-04	3.89E-04	3.63E-04	3.63E-04
INFANT	2.09E-04	2.08E-04	1.51E-07	2.09E-04	2.09E-04	2.33E-04	2.09E-04	2.08E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 10 COW,PORK
AT 3.50 MILES NW

SEMI-ANNUAL BETA AIR DOSE = 1.24E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 4.23E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.50E-04	2.50E-04	2.50E-04	2.50E-04	2.50E-04	2.50E-04	2.62E-04	7.45E-04
MEAT								
ADULT	6.02E-05	6.01E-05	1.29E-07	6.03E-05	6.01E-05	6.48E-05	6.01E-05	6.01E-05
TEEN	3.59E-05	3.58E-05	1.05E-07	3.60E-05	3.59E-05	3.92E-05	3.58E-05	3.58E-05
CHILD	4.33E-05	4.33E-05	1.98E-07	4.35E-05	4.34E-05	4.84E-05	4.33E-05	4.33E-05
COW MILK								
ADULT	1.42E-04	1.41E-04	8.21E-07	1.42E-04	1.42E-04	2.06E-04	1.41E-04	1.41E-04
TEEN	1.85E-04	1.84E-04	1.46E-06	1.86E-04	1.85E-04	2.87E-04	1.84E-04	1.84E-04
CHILD	2.91E-04	2.90E-04	3.46E-06	2.94E-04	2.92E-04	4.93E-04	2.91E-04	2.90E-04
INFANT	4.42E-04	4.40E-04	5.83E-06	4.48E-04	4.44E-04	9.34E-04	4.41E-04	4.40E-04

TABLE VII-A-15

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 11 VEG.RES
AT 2.05 MILES NNW

SEMI-ANNUAL BETA AIR DOSE = 3.21E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.31E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.93E-04	7.93E-04	7.93E-04	7.93E-04	7.93E-04	7.93E-04	8.24E-04	2.15E-03
GROUND	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	7.57E-06	8.8[illegible]-06
VEGET								
ADULT	1.04E-03	1.04E-03	7.17E-06	1.05E-03	1.04E-03	1.22E-03	1.04E-03	1.04E-03
TEEN	1.19E-03	1.19E-03	1.03E-05	1.20E-03	1.19E-03	1.34E-03	1.19E-03	1.19E-03
CHILD	1.84E-03	1.84E-03	2.24E-05	1.86E-03	1.85E-03	2.07E-03	1.84E-03	1.84E-03
INHAL								
ADULT	5.74E-04	5.74E-04	2.06E-07	5.74E-04	5.74E-04	6.02E-04	5.74E-04	5.74E-04
TEEN	5.78E-04	5.78E-04	2.70E-07	5.78E-04	5.78E-04	6.12E-04	5.78E-04	5.78E-04
CHILD	5.11E-04	5.11E-04	3.38E-07	5.11E-04	5.11E-04	5.49E-04	5.11E-04	5.11E-04
INFANT	2.94E-04	2.94E-04	2.17E-07	2.94E-04	2.94E-04	3.29E-04	2.94E-04	2.94E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 8-12-81
SPECIAL LOCATION # 12 BEEF
AT 2.28 MILES NNW

SEMI-ANNUAL BETA AIR DOSE = 2.54E-03 MILLRADS
SEMI-ANNUAL GAMMA AIR DOSE = 1.04E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.26E-04	6.26E-04	6.26E-04	6.26E-04	6.26E-04	6.26E-04	6.51E-04	1.70E-03
BEAT								
ADULT	1.18E-04	1.18E-04	4.77E-07	1.18E-04	1.18E-04	1.35E-04	1.18E-04	1.18E-04
TEEN	7.05E-05	7.03E-05	3.86E-07	7.08E-05	7.05E-05	8.29E-05	7.03E-05	7.02E-05
CHILD	8.50E-05	8.49E-05	6.95E-07	8.56E-05	8.51E-05	1.04E-04	8.49E-05	8.48E-05

TABLE VII-A-16

FORT CALHOUN | SEMI-ANNUAL 1/81- 6/81 TRI-EX TOWER DATA 08-12-81
SEMI-ANNUAL ALARA INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.36E-02	1.36E-02	1.36E-02	1.36E-02	1.36E-02	1.36E-02	1.46E-02	5.10E-02
	26.76%	26.80%	98.38%	26.73%	26.77%	23.76%	28.18%	57.87%
GROUND	9.91E-05	9.91E-05	9.91E-05	9.91E-05	9.91E-05	9.91E-05	9.91E-05	1.16E-04
	0.20%	0.20%	0.72%	0.19%	0.20%	0.17%	0.19%	0.13%
INHAL	1.86E-02	1.86E-02	6.12E-06	1.86E-02	1.86E-02	1.86E-02	1.86E-02	1.86E-02
	36.63%	36.67%	0.04%	36.58%	36.63%	34.02%	35.98%	21.10%
VEGET	1.27E-02	1.27E-02	8.14E-05	1.28E-02	1.27E-02	1.64E-02	1.27E-02	1.27E-02
	25.08%	25.03%	0.59%	25.12%	25.07%	28.68%	24.55%	14.39%
COW MILK	2.89E-03	2.87E-03	2.80E-05	2.91E-03	2.89E-03	4.50E-03	2.88E-03	2.87E-03
	5.69%	5.66%	0.20%	5.72%	5.69%	7.86%	5.56%	3.26%
MEAT	2.87E-03	2.86E-03	8.68E-06	2.87E-03	2.87E-03	3.15E-03	2.86E-03	2.86E-03
	5.65%	5.64%	0.06%	5.65%	5.64%	5.51%	5.53%	3.25%
TOTAL	5.08E-02	5.07E-02	1.38E-02	5.09E-02	5.08E-02	5.72E-02	5.17E-02	8.82E-02

TABLE VII-B-1

FT. CALHOUN 1 SEMI-ANNUAL RELEASES FOR JAN 1981 TO JUN 1981 08-12-81

DISCHARGE=6.02E+02 CFS SOURCE TERM MULTIPLIER=1.00E+00

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

FRESHWATER SITE

FT. CALHOUN S. TERMS 1/81- 6/81

NO RECONCENTRATION OF NUCLIDES

* * * ADULT DOSE FACTORS * * *

			INGESTION DOSE FACTORS (MREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)		
NUCLIDE		CURIE/.5YR	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON
38SR	89	2.14E-04	3.09E-04	0.0	8.85E-06	0.0	0.0	0.0	4.94E-05	6.50E-13	5.60E-13	1.00E+00
38SR	90	2.14E-04	7.61E-03	0.0	1.86E-03	0.0	0.0	0.0	1.02E-04	0.0	0.0	1.00E+00
27CO	57	1.02E-03	0.0	1.75E-07	2.91E-07	0.0	0.0	0.0	4.44E-06	1.00E-09	9.10E-10	1.00E+00
42MO	99	8.57E-04	0.0	4.31E-06	8.20E-07	0.0	9.77E-06	0.0	9.99E-06	2.20E-09	1.90E-09	1.00E+00
43TC	99M	4.16E-04	2.47E-10	6.98E-10	8.90E-09	0.0	1.06E-08	3.42E-10	4.13E-07	1.10E-09	9.60E-10	1.00E+00
58CE	141	1.68E-03	9.37E-09	6.34E-09	7.18E-10	0.0	2.94E-09	0.0	2.42E-05	6.20E-10	5.50E-10	1.00E+00
24CR	51	7.73E-03	0.0	0.0	2.66E-09	1.59E-09	5.87E-10	3.53E-09	6.69E-07	2.60E-10	2.20E-10	1.00E+00
53I	131	3.86E-03	4.16E-06	5.96E-06	3.41E-06	1.95E-03	1.02E-05	0.0	1.57E-06	3.40E-09	2.80E-09	1.00E+00
53I	133	9.88E-04	1.43E-06	2.48E-06	7.57E-07	4.77E-04	4.33E-06	0.0	2.18E-06	4.50E-09	3.70E-09	1.00E+00
56BA	140	2.53E-03	2.03E-05	2.55E-08	1.34E-06	0.0	8.68E-09	1.46E-08	4.18E-05	2.40E-09	2.10E-09	1.00E+00
44RU	103	9.68E-04	1.85E-07	0.0	7.98E-08	0.0	7.07E-07	0.0	2.16E-05	4.20E-09	3.60E-09	1.00E+00
55CS	137	1.45E-02	7.98E-05	1.09E-04	7.15E-05	0.0	3.71E-05	1.23E-05	2.10E-06	4.90E-09	4.20E-09	1.00E+00
40ZR	95	1.55E-03	3.04E-08	9.76E-09	6.61E-09	0.0	1.54E-08	0.0	3.03E-05	5.80E-09	5.00E-09	1.00E+00
41NB	95	8.96E-04	6.23E-09	3.46E-09	1.36E-09	0.0	3.43E-09	0.0	2.10E-05	6.00E-09	5.10E-09	1.00E+00
55CS	134	8.30E-03	6.22E-05	1.48E-04	1.21E-04	0.0	4.80E-05	1.59E-05	2.59E-06	1.40E-08	1.20E-08	1.00E+00
27CO	58	1.04E-03	0.0	7.46E-07	1.67E-06	0.0	0.0	0.0	1.51E-05	8.20E-09	7.00E-09	1.00E+00
25MN	54	9.40E-04	0.0	4.57E-06	8.73E-07	0.0	1.36E-06	0.0	1.40E-05	6.80E-09	5.80E-09	1.00E+00
55CS	136	1.32E-03	6.51E-06	2.57E-05	1.85E-05	0.0	1.43E-05	1.96E-06	2.92E-06	1.70E-08	1.50E-08	1.00E+00
26FE	59	1.70E-03	4.34E-06	1.03E-05	3.92E-06	0.0	0.0	2.86E-06	3.40E-05	9.40E-09	8.00E-09	1.00E+00
30ZN	65	2.39E-03	4.85E-06	1.54E-05	6.97E-06	0.0	1.03E-05	0.0	9.70E-06	4.60E-09	4.00E-09	1.00E+00
27CO	60	1.33E-03	0.0	2.15E-06	4.72E-06	0.0	0.0	0.0	4.02E-05	2.00E-08	1.70E-08	1.00E+00
57LA	140	7.30E-04	2.50E-09	1.26E-09	3.34E-10	0.0	0.0	0.0	9.25E-05	1.70E-08	1.50E-08	1.00E+00
51SB	124	1.13E-03	2.81E-06	5.30E-08	1.11E-06	6.79E-09	0.0	2.18E-06	7.95E-05	1.50E-08	1.30E-08	1.00E+00
1H	3	2.08E+02	0.0	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 VII-C-1

* * * TEENAGER DOSE FACTORS * * *

NUCLIDE		CURIE/.5YR	INGESTION DOSE FACTORS (MREM/PCI INTAKE) BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SHORELINE (MREM/HR)/(PCI/M**2) SKIN	TOTAL BODY	RECON
38SR	89	2.14E-04	4.60E-04	0.0	1.32E-05	0.0	0.0	0.0	4.99E-05			
38SR	90	2.14E-04	1.04E-02	0.0	2.57E-03	0.0	0.0	0.0	2.20E-04			
58CE	141	1.68E-03	1.26E-08	8.46E-09	9.70E-10	0.0	2.94E-09	0.0	2.29E-05			
53I	131	3.86E-03	5.57E-06	7.87E-06	4.69E-06	2.27E-03	1.02E-05	0.0	1.49E-06			
53I	133	9.88E-04	2.03E-06	3.44E-06	1.06E-06	5.25E-04	4.33E-06	0.0	2.50E-06			
56BA	140	2.53E-03	2.83E-05	3.48E-08	1.82E-06	0.0	8.68E-09	2.33E-08	4.14E-06			
44RU	103	9.68E-04	2.37E-07	0.0	1.06E-07	0.0	7.07E-07	0.0	1.85E-05			
55CS	137	1.45E-02	1.07E-04	1.44E-04	5.05E-05	0.0	3.71E-05	1.91E-05	1.92E-06			
40ZR	95	1.55E-03	3.72E-08	1.24E-08	8.66E-09	0.0	1.54E-08	0.0	2.68E-05			
41NB	95	8.96E-04	7.24E-09	4.36E-09	2.46E-09	0.0	3.43E-09	0.0	1.78E-05			
55CS	134	8.30E-03	8.05E-05	1.94E-04	9.06E-05	0.0	4.80E-05	2.35E-05	2.24E-06			
27CO	58	1.04E-03	0.0	9.92E-07	2.26E-06	0.0	0.0	0.0	1.34E-05			
27CO	60	1.33E-03	0.0	2.76E-06	6.30E-06	0.0	0.0	0.0	3.31E-05			
57LA	140	7.30E-04	3.48E-09	1.72E-09	4.55E-10	0.0	0.0	0.0	9.48E-05			
1H	3	2.08E+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) BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SHORELINE (MREM/HR)/(PCI/M**2) SKIN	TOTAL BODY	RECON
38SR	89	2.14E-04	1.38E-03	0.0	3.95E-05	0.0	0.0	0.0	5.15E-05			
38SR	90	2.14E-04	1.72E-02	0.0	4.36E-03	0.0	0.0	0.0	2.29E-04			
58CE	141	1.68E-03	3.76E-08	1.88E-08	2.80E-09	0.0	2.94E-09	0.0	2.36E-05			
53I	131	3.86E-03	1.63E-05	1.67E-05	1.26E-05	5.43E-03	1.02E-05	0.0	1.43E-06			
53I	133	9.88E-04	5.98E-06	7.38E-06	2.90E-06	1.78E-03	4.33E-06	0.0	2.99E-06			
56BA	140	2.53E-03	8.26E-05	7.25E-08	4.85E-06	0.0	8.68E-09	4.32E-08	4.21E-06			
44RU	103	9.68E-04	6.78E-07	0.0	2.74E-07	0.0	7.07E-07	0.0	1.78E-05			
55CS	137	1.45E-02	3.12E-04	3.02E-04	4.50E-05	0.0	3.71E-05	3.54E-05	1.84E-06			
40ZR	95	1.55E-03	1.04E-07	2.42E-08	2.20E-08	0.0	1.54E-08	0.0	2.50E-05			
41NB	95	8.96E-04	1.95E-08	8.32E-09	6.11E-09	0.0	3.43E-09	0.0	1.44E-05			
55CS	134	8.30E-03	2.24E-04	3.77E-04	8.02E-05	0.0	4.80E-05	4.19E-05	2.04E-06			
27CO	58	1.04E-03	0.0	1.85E-06	5.58E-06	0.0	0.0	0.0	1.10E-05			
27CO	60	1.33E-03	0.0	5.17E-06	1.55E-05	0.0	0.0	0.0	2.86E-05			
57LA	140	7.30E-04	1.01E-08	3.52E-09	1.19E-09	0.0	0.0	0.0	1.00E-04			
1H	3	2.08E+02	0.0	2.03E-07	2.03E-07	2.03E-07	1.34E-07	2.03E-07	2.03E-07			

TABLE VII-C-2

* * * INFANT DOSE FACTORS * * *

NUCLIDE	CURIE/.5YR	INGESTION DOSE FACTORS (MREM/PCI INTAKE) BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SHORELINE (MREM/HR)/(PCI/M**2) SKIN	TOTAL BODY	RECON
38SR 89	2.14E-04	2.93E-03	0.0	8.42E-05	0.0	0.0	0.0	5.48E-05			
38SR 90	2.14E-04	2.51E-02	0.0	6.40E-03	0.0	0.0	0.0	2.43E-04			
58CE 141	1.68E-03	8.00E-08	4.91E-08	5.75E-09	0.0	2.94E-09	0.0	2.38E-05			
53I 131	3.86E-03	3.42E-05	4.07E-05	2.38E-05	1.31E-02	1.02E-05	0.0	1.53E-06			
53I 133	9.88E-04	1.26E-05	1.84E-05	5.58E-06	4.35E-03	4.33E-06	0.0	3.27E-06			
56BA 140	2.53E-03	1.74E-04	1.75E-07	8.99E-06	0.0	8.68E-09	1.07E-07	4.43E-06			
44RU 103	9.68E-04	1.41E-06	0.0	4.85E-07	0.0	7.07E-07	0.0	1.76E-05			
55CS 137	1.45E-02	6.53E-04	7.31E-04	4.20E-05	0.0	3.71E-05	8.81E-05	1.89E-06			
40ZR 95	1.55E-03	2.11E-07	5.32E-08	3.78E-08	0.0	1.54E-08	0.0	2.38E-05			
41NB 95	8.96E-04	3.89E-08	1.75E-08	1.03E-08	0.0	3.43E-09	0.0	1.40E-05			
55CS 134	8.30E-03	4.58E-04	8.24E-04	6.97E-05	0.0	4.80E-05	9.42E-05	1.96E-06			
27CO 58	1.04E-03	0.0	3.78E-06	9.26E-06	0.0	0.0	0.0	9.79E-06			
27CO 60	1.33E-03	0.0	1.07E-05	2.56E-05	0.0	0.0	0.0	2.64E-05			
57LA 140	7.30E-04	2.12E-08	8.37E-09	2.16E-09	0.0	0.0	0.0	1.04E-04			
1H 3	2.08E+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 24 TOTAL RELEASE IS 2.0796E+02

TABLE VII-C-3

ADULT DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.01E-01	1.69E-01	1.23E-01	3.87E-03	5.81E-02	1.91E-02	2.21E-02
DRINKING		1.14E-04	1.02E-03	1.00E-03	1.16E-03	9.55E-04	9.32E-04	9.42E-04
SHORELINE	1.21E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04
SWIMMING	0.0	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06
BOATING	0.0	6.51E-07	6.51E-07	6.51E-07	6.51E-07	6.51E-07	6.51E-07	6.51E-07
TOTAL	1.21E-04	1.01E-01	1.70E-01	1.24E-01	5.13E-03	5.91E-02	2.01E-02	2.32E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)
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

SHOREWIDTH FACTOR=0.2

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		SR 90 1%	CS 137 54%	CS 137 49%	I 131 78%	CS 137 54%	CS 137 54%	CS 137 8%
		CS 137 67%	CS 134 42%	CS 134 47%	I 133 2%	CS 134 40%	CS 134 40%	NB 95 73%
		CS 134 30%	CS 136 1%	CS 136 1%	H 3 18%	CS 136 1%	H 3 3%	CS 134 5%
			ZN 65 1%			ZN 65 2%		ZN 65 6%
						H 3 1%		H 3 3%
DRINKING		SR 89 1%	CS 137 5%	SR 90 1%	I 131 20%	CS 137 1%	H 3 98%	H 3 97%
		SR 90 47%	CS 134 3%	CS 137 3%	H 3 79%	CS 134 1%		
		BA 140 1%	H 3 90%	CS 134 3%		H 3 96%		
		CS 137 33%		H 3 91%				
		CS 134 14%						
SHORELINE	CS 137 62%	CS 137 62%						
	CS 134 23%	CS 134 23%						
	CO 60 11%	CO 60 11%						
SWIM		I 131 3%						
		I 133 1%						
		BA 140 1%						
		RU 1 3 1%						
		CS 137 18%						
		ZR 95 2%						
		NB 95 1%						
		CS 134 30%						
		CO 58 2%						
		MN 54 1%						
		CS 136 6%						
		FE 59 4%						
		ZN 65 3%						
		CO 60 7%						
		LA 140 3%						
		SB 124 5%						

TABLE VII-C-4

• • • AS LOW AS REASONABLY ACHIEVABLE • • •

TEENAGER DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.01E-01	1.69E-01	6.88E-02	3.23E-03	4.42E-02	2.16E-02	1.46E-02
DRINKING		1.08E-04	5.97E-04	5.58E-04	7.06E-04	6.67E-04	5.20E-04	5.22E-04
SHORELINE	6.74E-04	5.77E-04	5.77E-04	5.77E-04	5.77E-04	5.77E-04	5.77E-04	5.77E-04
SWIMMING	0.0	7.27E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06
BOATING	0.0	3.63E-06	3.63E-06	3.63E-06	3.63E-06	3.63E-06	3.63E-06	3.63E-06
TOTAL	6.74E-04	1.02E-01	1.70E-01	7.00E-02	4.53E-03	4.55E-02	2.27E-02	1.57E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)
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

SHOREWIDTH FACTOR=0.2

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		SR 90 1%	CS 137 55%	CS 137 47%	I 131 83%	CS 137 54%	CS 137 57%	CS 137 8%
		CS 137 68%	CS 134 42%	CS 134 48%	I 133 2%	CS 134 40%	CS 134 40%	NB 95 71%
		CS 134 29%		CS 136 1%	H 3 13%	CS 136 1%	H 3 2%	CS 134 5%
				ZN 65 1%		ZN 65 2%		CS 135 1%
						H 3 1%		ZN 65 7%
								H 3 3%
DRINKING		SR 89 2%	CS 137 8%	SR 90 2%	I 131 26%	CS 137 1%	CS 137 1%	H 3 97%
		SR 90 47%	CS 134 6%	CS 137 3%	I 133 1%	CS 134 1%	H 3 97%	
		BA 140 1%	H 3 85%	CS 134 3%	H 3 72%	H 3 96%		
		CS 137 33%		H 3 91%				
		CS 134 14%						
SHORELINE	CS 137 62%	CS 137 62%						
	CS 134 23%	CS 134 23%						
	CO 60 11%	CO 60 11%						
SWIM		I 131 3%						
		I 133 1%						
		BA 140 1%						
		RU 1 3 1%						
		CS 137 18%						
		ZR 95 2%						
		NB 95 1%						
		CS 134 30%						
		CO 58 2%						
		MN 54 1%						
		CS 136 6%						
		FE 59 4%						
		ZN 65 3%						
		CO 60 7%						
		LA 140 3%						
		SB 124 5%						

TABLE VII-C-5

• • • AS LOW AS REASONABLY ACHIEVABLE • • •

CHILD DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.24E-01	1.46E-01	2.68E-02	3.26E-03	1.91E-02	1.70E-02	5.55E-03
DRINKING		2.46E-04	1.15E-03	1.03E-03	1.45E-03	6.67E-04	9.95E-04	9.87E-04
SHORELINE	1.41E-04	1.21E-04	1.21E-04	1.21E-04	1.21E-04	1.21E-04	1.21E-04	1.21E-04
SWIMMING	0.0	1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.52E-06
BOATING	0.0	7.59E-07	7.59E-07	7.59E-07	7.59E-07	7.59E-07	7.59E-07	7.59E-07
TOTAL	1.41E-04	1.25E-01	1.47E-01	2.79E-02	4.83E-03	1.99E-02	1.81E-02	6.66E-03

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)
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

SHOREWIDTH FACTOR=0.2

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 69%	CS 137 57%	SR 90 1%	I 131 85%	CS 137 54%	CS 137 58%	CS 137 9%
		CS 134 28%	CS 134 41%	CS 137 46%	I 133 3%	CS 134 40%	CS 134 39%	NB 95 65%
				CS 134 47%	H 3 11%	CS 136 1%	H 3 2%	CS 134 5%
				CS 136 1%		ZN 65 2%		CS 136 1%
				ZN 65 1%		H 3 1%		ZN 65 8%
				H 3 1%				H 3 6%
DRINKING		SR 89 2%	CS 137 8%	SR 90 2%	I 131 31%	CS 137 1%	CS 137 1%	H 3 98%
		SR 90 34%	CS 134 6%	CS 137 1%	I 133 1%	CS 134 1%	H 3 97%	
		BA 140 1%	H 3 84%	CS 134 1%	H 3 67%	H 3 96%		
		CS 137 42%		H 3 94%				
		CS 134 17%						
SHORELINE	CS 137 62%	CS 137 62%						
	CS 134 23%	CS 134 23%						
	CO 60 11%	CO 60 11%						
SWIM		I 131 3%						
		I 133 1%						
		BA 140 1%						
		RU 1 3 1%						
		CS 137 18%						
		ZR 95 2%						
		NB 95 1%						
		CS 134 30%						
		CO 58 2%						
		MN 54 1%						
		CS 136 6%						
		FE 59 4%						
		ZN 65 3%						
		CO 60 7%						
		LA 140 3%						
		SB 124 5%						

TABLE VII-C-6

* * * AS LOW AS REASONABLY ACHIEVABLE * * *

INFANT DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	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		4.58E-04	1.88E-03	1.54E-03	2.62E-03	6.67E-04	1.52E-03	1.49E-03
SHORELINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	4.58E-04	1.88E-03	1.54E-03	2.62E-03	6.67E-04	1.52E-03	1.49E-03

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

* * * ISOTOPE CONTRIBUTION * * *

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING		SR 89 3%	CS 137 12%	SR 90 2%	I 131 41%	CS 137 1%	CS 137 1%	H 3 99%
		SR 90 27%	CS 134 8%	H 3 95%	I 133 2%	CS 134 1%	CS 134 1%	
		BA 140 2%	H 3 78%		H 3 96%	H 3 96%	H 3 96%	
		CS 137 47%						
		CS 134 19%						

TABLE VII-C-7

• • • SELECTED LOCATION • • •

LOCATION IS SITE DISCHG.

ADULT DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.01E-01	1.69E-01	1.23E-01	3.87E-03	5.81E-02	1.91E-02	2.21E-02
DRINKING		3.53E-03	3.14E-02	3.09E-02	3.60E-02	2.94E-02	2.87E-02	2.90E-02
SHORELINE	1.21E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04
SWIMMING	0.0	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06	1.30E-06
BOATING	0.0	6.51E-07	6.51E-07	6.51E-07	6.51E-07	6.51E-07	6.51E-07	6.51E-07
TOTAL	1.21E-04	1.04E-01	2.01E-01	1.54E-01	4.00E-02	8.76E-02	4.79E-02	5.12E-02

	USAGE (KG/YR,HR/YR)	DILUTION	T[illegible] (HR)
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

SHOREWIDTH FACTOR=0.2

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		SR 90 1%	CS 137 54%	CS 137 49%	I 131 78%	CS 137 54%	CS 137 54%	CS 137 8%
		CS 137 67%	CS 134 42%	CS 134 47%	I 133 2%	CS 134 40%	CS 134 40%	NB 95 73%
		CS 134 30%	CS 136 1%	CS 136 1%	H 3 18%	CS 136 1%	H 3 3%	CS 134 5%
			ZN 65 1%			ZN 65 2%		ZN 65 6%
						H 3 1%		H 3 3%
DRINKING		SR 89 1%	CS 137 5%	SR 90 1%	I 131 20%	CS 137 1%	H 3 98%	H 3 97%
		SR 90 47%	CS 134 3%	CS 137 3%	H 3 78%	CS 134 1%		
		BA 140 1%	H 3 90%	CS 134 3%		H 3 96%		
		CS 137 33%		H 3 91%				
		CS 134 14%						
SHORELINE	CS 137 62%	CS 137 62%						
	CS 134 23%	CS 134 23%						
	CO 60 11%	CO 60 11%						
SWIM		I 131 3%						
		I 133 1%						
		BA 140 1%						
		RU 1 3 1%						
		CS 137 18%						
		ZR 95 2%						
		NB 95 1%						
		CS 134 30%						
		CO 58 2%						
		MN 54 1%						
		CS 136 6%						
		FE 59 4%						
		ZN 65 3%						
		CO 60 7%						
		LA 140 3%						
		SB 124 5%						

TABLE VII-C-8

• • • SELECTED LOCATION • • •

LOCATION IS SITE DISCHG.

TEENAGER DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.01E-01	1.69E-01	6.88E-02	3.23E-03	4.42E-02	2.16E-02	1.45E-02
DRINKING		3.32E-03	1.84E-02	1.72E-02	2.20E-02	2.06E-02	1.60E-02	1.61E-02
SHORELINE	6.74E-04	5.77E-04	5.77E-04	5.77E-04	5.77E-04	5.77E-04	5.77E-04	5.77E-04
SWIMMING	0.0	7.27E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06	7.27E-06
BOATING	0.0	3.63E-06	3.63E-06	3.63E-06	3.63E-06	3.63E-06	3.63E-06	3.63E-06
TOTAL	6.74E-04	1.05E-01	1.88E-01	8.66E-02	2.58E-02	6.54E-02	3.82E-02	3.13E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)
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

SHOREWIDTH FACTOR=0.2

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		SR 90 1%	CS 137 55%	CS 137 47%	I 131 83%	CS 137 54%	CS 137 57%	CS 137 8%
		CS 137 68%	CS 134 42%	CS 134 48%	I 133 2%	CS 134 40%	CS 134 40%	NB 95 71%
		CS 134 29%		CS 136 1%	H 3 13%	CS 136 1%	H 3 2%	CS 134 5%
				ZN 65 1%		ZN 65 2%		CS 136 1%
						H 3 1%		ZN 65 7%
								H 3 3%
DRINKING		SR 89 2%	CS 137 8%	SR 90 2%	I 131 27%	CS 137 1%	CS 137 1%	H 3 97%
		SR 90 47%	CS 134 6%	CS 137 3%	I 133 1%	CS 134 1%	H 3 97%	
		BA 140 1%	H 3 85%	CS 134 3%	H 3 71%	H 3 96%		
		CS 137 33%		H 3 91%				
		CS 134 14%						
SHORELINE	CS 137 62%	CS 137 62%						
	CS 134 23%	CS 134 23%						
	CO 60 11%	CO 60 11%						
SWIM		I 131 3%						
		I 133 1%						
		BA 140 1%						
		RU 1 3 1%						
		CS 137 18%						
		ZR 95 2%						
		NB 95 1%						
		CS 134 30%						
		CO 58 2%						
		MN 54 1%						
		CS 136 6%						
		FE 59 4%						
		ZN 65 3%						
		CO 60 7%						
		LA 140 3%						
		SB 124 5%						

TABLE VII-C-9

• • • SELECTED LOCATION • • •

LOCATION IS SITE DISCHG.

CHILD DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.24E-01	1.46E-01	2.68E-02	3.26E-03	1.91E-02	1.70E-02	5.55E-03
DRINKING		7.58E-03	3.55E-02	3.17E-02	4.52E-02	2.06E-02	3.06E-02	3.04E-02
SHORELINE	1.41E-04	1.21E-04	1.21E-04	1.21E-04	1.21E-04	1.21E-04	1.21E-04	1.21E-04
SWIMMING	0.0	1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.52E-06
BOATING	0.0	7.59E-07	7.59E-07	7.59E-07	7.59E-07	7.59E-07	7.59E-07	7.59E-07
TOTAL	1.41E-04	1.32E-01	1.82E-01	5.86E-02	4.86E-02	3.98E-02	4.77E-02	3.61E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)
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

SHOREWIDTH FACTOR=0.2

• • • ISOTOPE CONTRIBUTION • • •

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 69%	CS 137 57%	SR 90 1%	I 131 85%	CS 137 54%	CS 137 58%	CS 137 9%
		CS 134 28%	CS 134 41%	CS 137 46%	I 133 3%	CS 134 40%	CS 134 39%	NB 95 65%
				CS 134 47%	H 3 11%	CS 136 1%	H 3 2%	CS 134 5%
				CS 136 1%		ZN 65 2%		CS 136 1%
				ZN 65 1%		H 3 1%		ZN 65 8%
				H 3 1%				H 3 6%
DRINKING		SR 89 2%	CS 137 8%	SR 90 2%	I 131 31%	CS 137 1%	CS 137 1%	H 3 98%
		SR 90 34%	CS 134 6%	CS 137 1%	I 133 1%	CS 134 1%	H 3 97%	
		BA 140 1%	H 3 84%	CS 134 1%	H 3 66%	H 3 96%		
		CS 137 42%		H 3 94%				
		CS 134 17%						
SHORELINE	CS 137 62%	CS 137 62%						
	CS 134 23%	CS 134 23%						
	CO 60 11%	CO 60 11%						
SWIM		I 131 3%						
		I 133 1%						
		BA 140 1%						
		RU 1 3 1%						
		CS 137 18%						
		ZR 95 2%						
		NB 95 1%						
		CS 134 30%						
		CO 58 2%						
		MN 54 1%						
		CS 136 6%						
		FE 59 4%						
		ZN 65 3%						
		CO 60 7%						
		LA 140 3%						
		SB 124 5%						

TABLE VII-C-10

* * * SELECTED LOCATION * * *

LOCATION IS SITE DISCHG.

INFANT DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	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		1.41E-02	5.80E-02	4.74E-02	8.20E-02	2.06E-02	4.69E-02	4.58E-02
SHORELINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	1.41E-02	5.80E-02	4.74E-02	8.20E-02	2.06E-02	4.69E-02	4.58E-02

	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		SR 89 3%	CS 137 12%	SR 90 2%	I 131 42%	CS 137 1%	CS 137 1%	H 3 99%
		SR 90 27%	CS 134 8%	H 3 95%	I 133 2%	CS 134 1%	CS 134 1%	
		BA 140 2%	H 3 78%		H 3 55%	H 3 96%	H 3 96%	
		CS 137 47%						
		CS 134 19%						

TABLE VII-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	3.74E-02	6.27E-02	4.55E-02	9.47E-04	2.15E-02	7.07E-03	7.50E-03
FISH	TEENAGER	9.29E+03	7.91E-03	1.31E-02	5.34E-03	1.60E-04	3.43E-03	1.68E-03	1.04E-03
FISH	CHILD	5.61E+03	1.36E-02	1.59E-02	2.91E-03	2.21E-04	2.07E-03	1.85E-03	5.58E-04
FISH	TOTAL	7.30E+04	5.88E-02	9.18E-02	5.38E-02	1.33E-03	2.70E-02	1.06E-02	9.10E-03

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

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

• • • ISOTOPE CONTRIBUTION • • •

AGE GROUP	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADULT	SR 90 1%	CS 137 54%	CS 137 49%	I 131 71%	CS 137 54%	CS 137 55%	CS 137 8%
	CS 137 67%	CS 134 42%	CS 134 47%	H 3 28%	CS 134 40%	CS 134 40%	NB 95 71%
	CS 134 29%	ZN 65 1%			CS 136 1%	H 3 3%	CS 134 6%
					ZN 65 2%		ZN 65 6%
					H 3 1%		H 3 3%
TEENAGER	SR 90 1%	CS 137 55%	CS 137 47%	I 131 78%	CS 137 54%	CS 137 57%	CS 137 9%
	CS 137 68%	CS 134 42%	CS 134 46%	H 3 21%	CS 134 40%	CS 134 40%	NB 95 69%
	CS 134 29%		CS 136 1%		CS 136 1%	H 3 2%	CS 134 6%
			ZN 65 1%		ZN 65 2%		ZN 65 7%
					H 3 1%		H 3 3%
CHILD	CS 137 70%	CS 137 57%	SR 90 1%	I 131 81%	CS 137 54%	CS 137 58%	CS 137 10%
	CS 134 28%	CS 134 41%	CS 137 47%	H 3 18%	CS 134 40%	CS 134 39%	NB 95 63%
			CS 134 47%		CS 136 1%	H 3 2%	CS 134 6%
			CS 136 1%		ZN 65 2%		ZN 65 8%
			ZN 65 1%		H 3 1%		H 3 7%
			H 3 1%				

TABLE VII-D-1

• • • FISH CONSUMPTION POPULATION DOSES • • •
MAN-REM

_____COMMERCIAL HARVEST_____

PATHWAY	AGE GROUP	USAGE	DOSE (MAN-REM) BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	3.81E+06	4.06E-03	6.80E-03	4.94E-03	6.63E-05	2.33E-03	7.67E-04	7.80E-04
FISH	TEENAGER	6.09E+05	8.58E-04	1.42E-03	5.79E-04	1.43E-05	3.72E-04	1.83E-04	1.08E-04
FISH	CHILD	3.68E+05	1.48E-03	1.73E-03	3.16E-04	1.96E-05	2.25E-04	2.01E-04	5.82E-05
FISH	TOTAL	4.78E+06	6.39E-03	9.95E-03	5.83E-03	1.20E-04	2.92E-03	1.15E-03	9.46E-04

DILUTION 7.30E+00 CATCH 7.30E+04 TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 2.40E+02 HR 2.41E+02 POPULATION=8.36E+05

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

• • • ISOTOPE CONTRIBUTION • • •

AGE GROUP	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADULT	SR 90 1%	CS 137 55%	CS 137 49%	I 131 65%	CS 137 54%	CS 137 55%	CS 137 9%
	CS 137 67%	CS 134 42%	CS 134 47%	H 3 35%	CS 134 40%	CS 134 40%	NB 95 70%
	CS 134 29%	ZN 65 1%			CS 136 1%	H 3 3%	CS 134 6%
					ZN 65 2%		ZN 65 6%
					H 3 1%		H 3 3%
TEENAGER	SR 90 1%	CS 137 55%	CS 137 47%	I 131 73%	CS 137 54%	CS 137 57%	CS 137 9%
	CS 137 68%	CS 134 42%	CS 134 48%	H 3 26%	CS 134 40%	CS 134 40%	NB 95 68%
	CS 134 29%		ZN 65 1%		CS 136 1%	H 3 2%	CS 134 6%
					ZN 65 2%		ZN 65 7%
					H 3 1%		H 3 3%
CHILD	CS 137 70%	CS 137 57%	SR 90 1%	I 131 77%	CS 137 54%	CS 137 58%	CS 137 10%
	CS 134 28%	CS 134 41%	CS 137 47%	H 3 22%	CS 134 40%	CS 134 39%	NB 95 62%
			CS 134 47%		CS 136 1%	H 3 2%	CS 134 [illegible]
			CS 136 1%		ZN 65 2%		MN 54 1%
			ZN 65 1%		H 3 1%		ZN 65 8%
			H 3 1%				H 3 7%

_____NEPA DOSES_____

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

PATHWAY	AGE GROUP	USAGE	DOSE (MAN-REM) BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	5.81E+04	3.73E-02	6.25E-02	4.54E-02	7.93E-04	2.14E-02	7.05E-03	7.17E-03
FISH	TEENAGER	9.29E+03	7.89E-03	1.31E-02	5.32E-03	1.31E-04	3.42E-03	1.68E-03	9.95E-04
FISH	CHILD	5.61E+03	1.36E-02	1.59E-02	2.90E-03	1.80E-04	2.07E-03	1.85E-03	5.35E-04
FISH	TOTAL	7.30E+04	5.88E-02	9.15E-02	5.36E-02	1.10E-03	2.69E-02	1.06E-02	8.70E-03

TABLE VII-D-2

• • • 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	2.02E-02	1.80E-01	1.78E-01	2.04E-01	1.69E-01	1.65E-01	1.67E-01
DRINKING	TEENAGER	1.93E+07	4.06E-03	2.26E-02	2.11E-02	2.63E-02	2.52E-02	1.96E-02	1.97E-02
DRINKING	CHILD	2.75E+07	1.32E-02	6.21E-02	5.56E-02	7.68E-02	3.60E-02	5.37E-02	5.32E-02
DRINKING	TOTAL	1.76E+08	3.75E-02	2.65E-01	2.54E-01	3.07E-01	2.30E-01	2.38E-01	2.40E-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							
	SR 89 1%	CS 137 5%	SR 90 1%	I 131 19%	CS 137 1%	H 3 98%	H 3 97%
	SR 90 47%	CS 134 3%	CS 137 3%	H 3 80%	CS 134 1%		
	BA 140 1%	H 3 90%	CS 134 3%		H 3 96%		
	CS 137 33%		H 3 91%				
	CS 134 14%						
TEENAGER							
	SR 89 2%	CS 137 8%	SR 90 2%	I 131 26%	CS 137 1%	CS 137 1%	H 3 97%
	SR 90 47%	CS 134 6%	CS 137 3%	H 3 73%	CS 134 1%	H 3 97%	
	BA 140 1%	H 3 85%	CS 134 3%		H 3 96%		
	CS 137 33%		H 3 91%				
	CS 134 14%						
CHILD							
	SR 89 2%	CS 137 8%	SR 90 2%	I 131 30%	CS 137 1%	CS 137 1%	H 3 98%
	SR 90 34%	CS 134 6%	CS 137 1%	I 133 1%	CS 134 1%	H 3 97%	
	BA 140 1%	H 3 84%	CS 134 1%	H 3 68%	H 3 96%		
	CS 137 42%		H 3 94%				
	CS 134 17%						

TABLE VII-D-3

DOSE (MAN-REM)

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	ADULT	2.12E+07	3.27E-03	2.91E-02	2.88E-02	3.29E-02	2.73E-02	2.67E-02	2.70E-02
DRINKING	TEENAGER	3.17E+06	6.57E-04	3.65E-03	3.41E-03	4.25E-03	4.08E-03	3.18E-03	3.19E-03
DRINKING	CHILD	4.52E+06	2.14E-03	1.01E-02	8.99E-03	1.24E-02	5.82E-03	8.68E-03	8.61E-03
DRINKING	TOTAL	2.89E+07	6.08E-03	4.29E-02	4.12E-02	4.96E-02	3.72E-02	3.85E-02	3.88E-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							
	SR 89 1%	CS 137 5%	SR 90 1%	I 131 19%	CS 137 1%	H 3 98%	H 3 97%
	SR 90 47%	CS 134 3%	CS 137 3%	H 3 80%	CS 134 1%		
	BA 140 1%	H 3 90%	CS 134 3%		H 3 96%		
	CS 137 33%		H 3 91%				
	CS 134 14%						
TEENAGER							
	SR 89 2%	CS 137 8%	SR 90 2%	I 131 26%	CS 137 1%	CS 137 1%	H 3 97%
	SR 90 47%	CS 134 6%	CS 137 3%	H 3 73%	CS 134 1%	H 3 97%	
	BA 140 1%	H 3 85%	CS 134 3%		H 3 96%		
	CS 137 33%		H 3 91%				
	CS 134 14%						
CHILD							
	SR 89 2%	CS 137 8%	SR 90 2%	I 131 30%	CS 137 1%	CS 137 1%	H 3 98%
	SR 90 34%	CS 134 6%	CS 137 1%	I 133 1%	CS 134 1%	H 3 97%	
	BA 140 1%	H 3 84%	CS 134 1%	H 3 68%	H 3 96%		
	CS 137 42%		H 3 94%				
	CS 134 17%						

-----CUMULATIVE TOTAL-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	CUMUL TOTAL	2.05E+08	4.36E-02	3.08E-01	2.95E-01	3.56E-01	2.67E-01	2.77E-01	2.78E-01

HYDROSPHERE TRITIUM DOSE

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
WATER	TOTAL	2.20E+00	2.24E-09	2.24E-09	2.24E-09	2.24E-09	2.24E-09	2.24E-09	2.24E-09

TABLE VII-D-4

* * * RECREATION POPULATION DOSES * * *

DOSE,MAN-REM

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SHORELINE	TOTAL POPUL	4.10E+07	5.65E-02	4.84E-02	4.84E-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	62%	CS 137	62%
	CS 134	23%	CS 134	23%
	CO 60	11%	CO 60	11%

DOSE(MAN-REM)

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SWIMMING	TOTAL POPUL	4.10E+07	0.0	6.08E-04	6.08E-04

LOCATION- DOWN STREAM

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

* * * ISOTOPE CONTRIBUTION * * *

AGE GROUP	SKIN		TOTAL BODY	
ADULT	TOTAL BODY		TOTAL BODY	
	I 131	3%	CO 58	2%
	I 133	1%	MN 54	1%
	BA 140	1%	CS 136	6%
	RU 1 3	1%	FE 59	4%
	CS 137	18%	ZN 65	3%
	ZR 95	2%	CO 60	7%
	NB 95	1%	LA 140	3%
	CS 134	30%	SB 124	5%

DOSE(MAN-REM)

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
BOATING	TOTAL POPUL	4.10E+07	0.0	3.04E-04	3.04E-04

LOCATION- DOWN STREAM

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

TABLE VII-D-5

* * * DOSE TO BIOTA * * *

MRADS PER .5YR

DILUTION= 1.00E+00 TRANSIT TIME= 0.0 HR

	INTERNAL	EXTERNAL	TOTAL
FISH	4.34E-01	3.78E-01	8.13E-01
INVERTEBRATE	2.42E-01	7.56E-01	9.98E-01
ALGAE	3.53E-01	9.50E-04	3.54E-01
MUSKRAT	3.06E+00	2.52E-01	3.31E+00
RACCOON	1.77E-01	1.89E-01	3.65E-01
HERON	1.16E+01	2.52E-01	1.19E+01
DUCK	2.72E+00	3.78E-01	3.10E+00

* * * ISOTOPE CONTRIBUTION * * *

PATHWAY	BODY				
FISH	CS 137	46%	MUSKRAT	SR 90	23%
	NB 95	14%		CS 137	35%
	CS 134	25%		CS 134	24%
	CS 136	4%		ZN 65	12%
	ZN 65	1%		H 3	1%
	H 3	6%			
			RACCOON	SR 90	13%
INVERTEBRATE	CE 141	3%		CS 137	23%
	BA 140	1%		CS 134	17%
	CS 137	4%		MN 54	11%
	CS 134	2%		FE 59	3%
	MN 54	47%		ZN 65	25%
	FE 59	11%		H 3	4%
	ZN 65	9%			
	LA 140	5%			
	H 3	11%	HERON	CS 137	55%
				CS 134	42%
ALGAE	MO 99	2%			
	CE 141	8%	DUCK	SR 90	26%
	BA 140	2%		CS 137	36%
	RU 1 3	1%		CS 134	22%
	CS 137	14%		ZN 65	10%
	ZR 95	2%		H 3	1%
	CS 134	7%			
	MN 54	3%			
	CS 136	1%			
	FE 59	2%			
	ZN 65	13%			
	LA 140	19%			
	SB 124	6%			
	H 3	8%			

TABLE VII-D-6