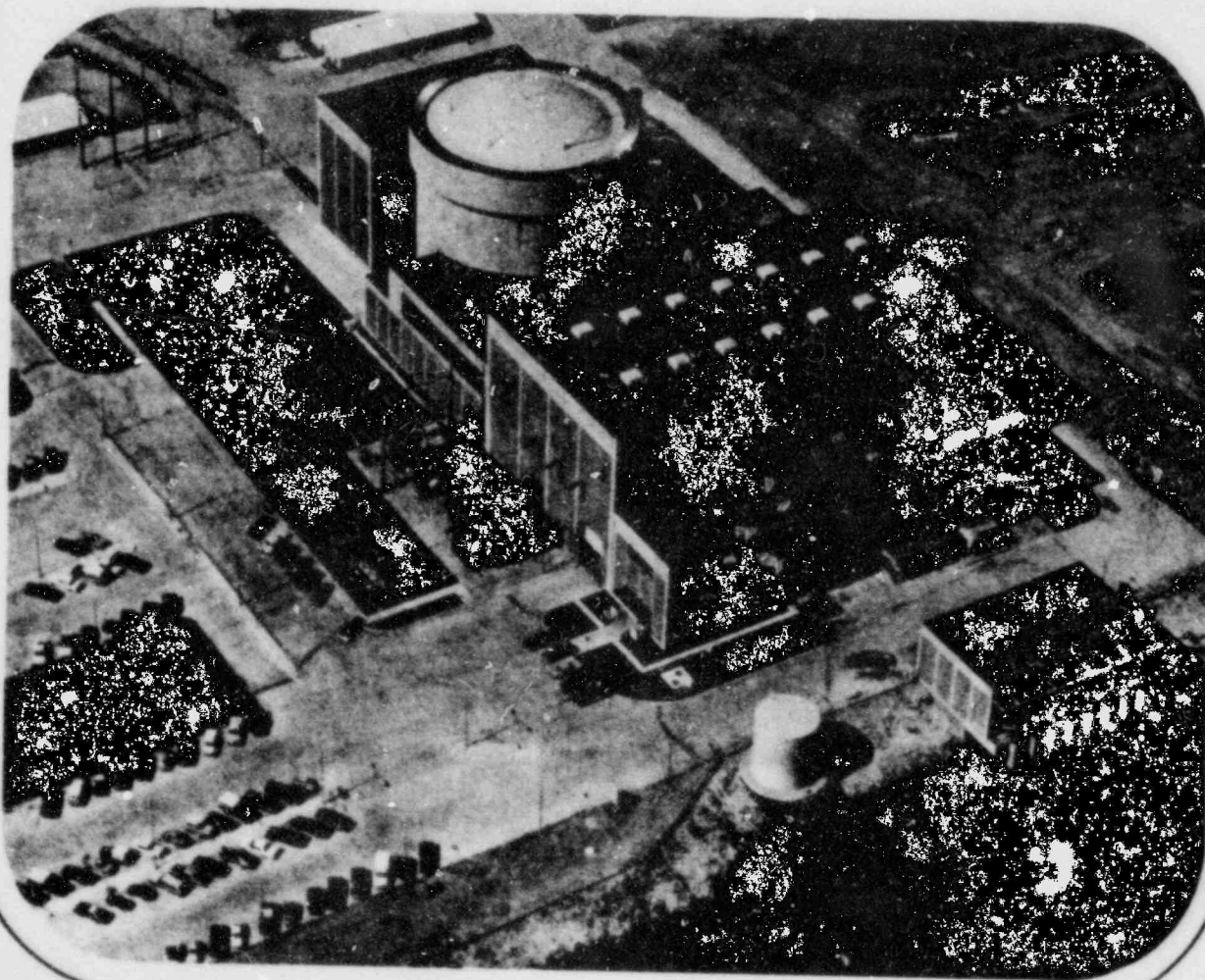


# Omaha Public Power District Fort Calhoun Station Unit No. 1

Semi Annual Report  
for  
Technical Specification  
Section 5.9.4

January 1, 1984 to June 30, 1984 inclusive



Docket No. 50-285

Operating License No. DPR-40

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## TABLE OF CONTENTS

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



## INTRODUCTION

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

This report covers the period of January 1, 1984 through June 30, 1984 for the Semi-Annual Report for Technical Specification 5.9.4.

*W. G. Gates*

W. G. Gates  
Manager  
Fort Calhoun Station

SECTION I

RADIOACTIVE EFFLUENT RELEASES - GASEOUS EFFLUENTS

TECHNICAL SPECIFICATION 5.9.4.a.1

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

January 1, 1984 to June 30, 1984

## I. Radioactive Effluent Releases

### A. GASEOUS EFFLUENTS

Radioactive gaseous releases for the reporting period totalled 326.05 Curies of inert gases. The highest release rate was  $1.08\text{E}+03 \text{ } \mu\text{Ci/sec.}$  or 1.30% of the Technical Specification limit ( $83,000 \text{ } \mu\text{Ci/sec.}$ ). Averaged over each calendar quarter of the reporting period, the gross gaseous activity release rates were  $4.07\text{E}+01 \text{ } \mu\text{Ci/sec.}$  or 0.05% and  $7.70\text{E}-01 \text{ } \mu\text{Ci/sec.}$  or  $9.3\text{E}-04\%$  for each quarter respectively of the maximum release rate of the Technical Specifications ( $83,000 \text{ } \mu\text{Ci/sec.}$ ). This is 0.31% and  $5.8\text{E}-03\%$  respectively of the 16% value specified ( $13,280 \text{ } \mu\text{Ci/sec.}$ ).

Radioactive halogens and particulates with half-lives greater than eight days released during the reporting period totalled  $6.82\text{E}-03$  Curies. The highest release rate for halogens with half-lives greater than eight days for Waste Gas Decay Tanks released prior to 30 days of isolation was  $4.78\text{E}-04 \text{ } \mu\text{Ci/sec.}$  or 4.83% of the maximum release rate of the Technical Specifications ( $0.0099 \text{ } \mu\text{Ci/sec.}$ ). The highest release rate for halogens with half-lives greater than eight days for Waste Gas Decay Tanks released after 30 days of isolation or Containment Purges was  $1.19\text{E}-03 \text{ } \mu\text{Ci/sec.}$  or 1.27% of the maximum release rate of the Technical Specifications ( $0.094 \text{ } \mu\text{Ci/sec.}$ ). The highest release rate for particulates with half-lives greater than eight days was  $7.42\text{E}-04 \text{ } \mu\text{Ci/sec.}$  or 37.1% of the maximum release rate of the Technical Specifications ( $0.002 \text{ } \mu\text{Ci/sec.}$ ). Averaged over each calendar quarter of the reporting period, the halogen



release rates were  $3.97\text{E-}04$   $\mu\text{Ci/sec.}$  or 0.42% and  $4.59\text{E-}04$   $\mu\text{Ci/sec.}$  or 0.49% for each quarter respectively of the maximum release rate of the Technical Specifications ( $0.094$   $\mu\text{Ci/sec.}$ ). This is 5.29% and 6.12% respectively of the 8% value specified ( $0.0075$   $\mu\text{Ci/sec.}$ ). Averaged over each calendar quarter of the reporting period, the particulate release rates were  $4.42\text{E-}06$   $\mu\text{Ci/sec.}$  or 0.22% and  $7.19\text{E-}06$   $\mu\text{Ci/sec.}$  or 0.36% for each quarter respectively of the maximum release rate of the Technical Specifications ( $0.002$   $\mu\text{Ci/sec.}$ ). This is 2.76% and 4.49% respectively of the 8% value specified ( $1.6\text{E-}04$   $\mu\text{Ci/sec.}$ ).

Radioactive tritium released during the reporting period totalled 4.61 Curies. Gross alpha radioactivity released during the reporting period totalled  $1.54\text{E-}06$  Curies.

TABLE 1A

## EFFLUENT AND WASTE DISPOSAL REPORT

## GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 84

		1 QUARTER				2 QUARTER				
NUCLIDES IN CURIES		CONT	DECAY	RM060	TOTAL	CONT	DECAY	RM060	TOTAL	
A. FISSION&ACTIVATION GASES										
TOTAL RELEASE		CI	3.19E+02	1.14E+00	0.00E+00	3.20E+02	8.71E-01	5.18E+00	0.00E+00	6.05E+00
AVG RELEASE RATE FOR PERIOD		UCI/SEC	4.06E+01	1.46E-01	0.00E+00	4.07E+01	1.11E-01	6.59E-01	0.00E+00	7.70E-01
PERCENT OF LIMIT TECH SPEC = 13280		%	3.00E-01	1.10E-03	0.00E+00	3.07E-01	8.34E-04	4.96E-03	0.00E+00	5.80E-03
B. IODINES										
TOTAL RELEASE		CI	0.00E+00	0.00E+00	3.12E-03	3.12E-03	0.00E+00	0.00E+00	3.61E-03	3.61E-03
AVG RELEASE RATE FOR PERIOD		UCI/SEC	0.00E+00	0.00E+00	3.97E-04	3.97E-04	0.00E+00	0.00E+00	4.59E-04	4.59E-04
PERCENT OF LIMIT TECH SPEC = .00752		%	0.00E+00	0.00E+00	5.28E+00	5.28E+00	0.00E+00	0.00E+00	6.11E+00	6.11E+00
C. PARTICULATES										
PARTICULATES WITH HALF LIVES .GT. 8 DAYS		CI	0.00E+00	0.00E+00	3.48E-05	3.48E-05	0.00E+00	0.00E+00	5.65E-05	5.65E-05
AVG RELEASE RATE FOR PERIOD		UCI/SEC	0.00E+00	0.00E+00	4.42E-06	4.42E-06	0.00E+00	0.00E+00	7.19E-06	7.19E-06
PERCENT OF LIMIT TECH SPEC = .00016		%	0.00E+00	0.00E+00	2.76E+00	2.76E+00	0.00E+00	0.00E+00	4.49E+00	4.49E+00
GROSS ALPHA RADIOACTIVITY		CI	0.00E+00	0.00E+00	6.70E-07	6.70E-07	0.00E+00	0.00E+00	8.72E-07	8.72E-07
D. TRITIUM										
TOTAL RELEASE		CI	4.15E+00	2.68E-03	0.00E+00	4.15E+00	4.35E-01	2.40E-02	0.00E+00	4.59E-01
AVG RELEASE RATE FOR PERIOD		UCI/SEC	5.27E-01	3.41E-04	0.00E+00	5.28E-01	5.54E-02	3.05E-03	0.00E+00	5.84E-02
PERCENT OF LIMIT TECH SPEC = NONE		%								

TABLE 1C

## EFFLUENT AND WASTE DISPOSAL REPORT

## GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 64

NUCLIDES IN CURIES	1 QUARTER			2 QUARTER				
	CONT	DECAY	RMO60	TOTAL	CONT	DECAY	RMO60	TOTAL
FISSION GASES								
XENON-133	3.05E+02	1.23E-01	0.00E+00	3.05E+02	5.02E-01	6.04E-01	0.00E+00	1.11E+00
KRYPTON-85M	6.82E-02	≤1.34E-05	0.00E+00	6.82E-02	9.56E-04	≤1.86E-04	0.00E+00	1.14E-03
XENON-131M	3.04E+00	4.31E-02	0.00E+00	3.08E+00	2.17E-01	1.69E-01	0.00E+00	3.86E-01
KRYPTON-88	8.21E-02	≤4.57E-05	0.00E+00	8.21E-02	3.21E-03	≤3.73E-04	0.00E+00	3.59E-03
XENON-133M	2.72E+00	1.03E-04	0.00E+00	2.72E+00	6.03E-03	≤8.06E-04	0.00E+00	6.84E-03
XENON-135	1.01E+00	≤1.21E-05	0.00E+00	1.01E+00	≤4.27E-04	≤8.22E-05	0.00E+00	≤5.10E-04
KRYPTON-87	2.47E-02	≤1.84E-05	0.00E+00	2.47E-02	≤7.21E-04	≤1.23E-04	0.00E+00	≤8.44E-04
XENON-138	≤6.03E-02	≤6.97E-05	0.00E+00	≤6.04E-02	≤2.55E-03	≤4.69E-04	0.00E+00	≤3.02E-03
KRYPTON-85	6.92E+00	9.78E-01	0.00E+00	7.90E+00	≤1.38E-01	4.41E+00	0.00E+00	4.54E+00
XENON-135M	≤1.73E-02	≤9.87E-06	0.00E+00	≤1.73E-02	≤6.13E-04	≤1.21E-04	0.00E+00	≤7.35E-04
ARGON-41	5.65E-01	≤1.49E-06	0.00E+00	5.65E-01	≤4.33E-04	≤1.13E-05	0.00E+00	≤4.45E-04
TOTAL FOR PERIOD	3.19E+02	1.14E+00	0.00E+00	3.20E+02	8.71E-01	5.18E+00	0.00E+00	6.05E+00
IODINES								
IODINE-131 CTD.	0.00E+00	0.00E+00	3.12E-03	3.12E-03	0.00E+00	0.00E+00	3.61E-03	3.61E-03
IODINE-133 CTD.	0.00E+00	0.00E+00	1.06E-03	1.06E-03	0.00E+00	0.00E+00	≤1.07E-05	≤1.07E-05
IODINE-135 CTD.	0.00E+00	0.00E+00	≤6.91E-03	≤6.91E-03	0.00E+00	0.00E+00	≤4.33E-05	≤4.33E-05
TOTAL FOR PERIOD	0.00E+00	0.00E+00	1.11E-02	1.11E-02	0.00E+00	0.00E+00	3.67E-03	3.67E-03
PARTICULATES								
STRONTIUM-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STRONTIUM-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IODINE-131 PRF.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IODINE-133 PRF.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BARIUM-140	0.00E+00	0.00E+00	≤1.62E-05	1.62E-05	0.00E+00	0.00E+00	≤2.55E-05	≤2.55E-05
CESIUM-137	0.00E+00	0.00E+00	≤6.83E-06	6.83E-06	0.00E+00	0.00E+00	1.40E-05	1.40E-05
CESIUM-134	0.00E+00	0.00E+00	≤6.37E-06	6.37E-06	0.00E+00	0.00E+00	1.01E-05	1.01E-05
COBALT-58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MANGANESE-54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COBALT-60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IODINE-135 PRF.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LANTHANUM-140	0.00E+00	0.00E+00	≤5.37E-06	5.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	0.00E+00	0.00E+00	≤3.48E-05	3.48E-05	0.00E+00	0.00E+00	≤7.06E-06	≤7.06E-06
ALPHA, TRITIUM & OTHER								
ALPHA	0.00E+00	0.00E+00	6.70E-07	6.70E-07	0.00E+00	0.00E+00	8.72E-07	8.72E-07
TRITIUM	4.15E+00	2.68E-03	0.00E+00	4.15E+00	4.35E-01	2.40E-02	0.00E+00	4.59E-01
GROSS BETA/GAMMA	0.00E+00	0.00E+00	1.26E-05	1.26E-05	0.00E+00	0.00E+00	1.44E-05	1.24E-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 2A	Liquid Effluents - Summation of All Releases
Table 2B	Liquid Effluents - Summation of All Releases

January 1, 1984 to June 30, 1984

## II. Radioactive Effluent Releases

### B. LIQUID EFFLUENTS

During the six months a total of  $1.77\text{E}-01$  Curies of radioactive liquid materials less tritium and dissolved noble gases were released to the Missouri River at an average concentration of  $2.52\text{E}-09$   $\mu\text{Ci/ml}$ . This represents 2.52% of the limits specified in Appendix B to 10CFR20 ( $1.0\text{E}-07$   $\mu\text{Ci/ml}$ ) for unrestricted areas. The maximum concentration of total activity (excluding tritium) released to the unrestricted area and averaged during the release was  $2.10\text{E}-07$   $\mu\text{Ci/ml}$  primarily due to the inclusion of dissolved noble gases.

Dilution water during the period amounted to  $1.44\text{E}+11$  liters, while radioactive liquid waste volume was  $2.16\text{E}+07$  liters including 231 batch releases and steam generator blowdown.

Additionally, 147.7 Curies of tritium were discharged at an average concentration of  $7.98\text{E}-07$   $\mu\text{Ci/ml}$  or 0.03% of MPC ( $3.0\text{E}-03$   $\mu\text{Ci/ml}$ ).

Gross alpha radioactivity released during the reporting period totalled  $3.14\text{E}-05$  Curies and was discharged at an average concentration of  $2.18\text{E}-13$   $\mu\text{Ci/ml}$  or  $7.27\text{E}-04\%$  of MPC ( $3.0\text{E}-08$   $\mu\text{Ci/ml}$ ).

During the two calendar quarters in the reporting period, 7.47E-02 Curies and 1.02E-01 Curies of radioactive liquids were released. This represents 0.75% and 1.02% of the 10 Curies per calendar quarter specified as the Technical Specification limit.



TABLE 2A

## EFFLUENT AND WASTE DISPOSAL REPORT

## LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 84

1 QUARTER 2 QUARTER

## A. FISSION&amp;ACTIVATION PRODUCTS

		1 QUARTER	2 QUARTER
TOTAL RELEASE (NO			
TRITIUM,GAS,ALPHA)	CI	7.47E-02	1.02E-01

AVG DILUTED			
CONCENTRATION	UCI/ML	6.16E-10	4.42E-09

PERCENT OF LIMIT			
TECH SPEC = 3.0E-8	%	2.05E+00	1.47E+01

## B. TRITIUM

TOTAL RELEASE	CI	1.37E+02	1.07E+01
---------------	----	----------	----------

AVG DILUTED			
CONCENTRATION	UCI/ML	1.13E-06	4.65E-07

PERCENT OF LIMIT			
TECH SPEC = 3.0E-3	%	3.76E-02	1.55E-02

## C. DISSOLVED&amp;ENTRAINED GASES

TOTAL RELEASE	CI	3.72E-01	5.26E-03
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AVG DILUTED			
CONCENTRATION	UCI/ML	3.07E-09	2.28E-10

PERCENT OF LIMIT	%		
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## D. GROSS ALPHA RADIOACTIVITY

TOTAL RELEASE	CI	2.95E-05	1.88E-06
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## E. VOLUME OF WASTE RELEASE

PRIOR TO DIL.	LITERS	1.93E+07	2.30E+06
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## F. VOLUME OF DILUTION WATER

THIS PERIOD	LITERS	1.21E+11	2.31E+10
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TABLE 2B

## EFFLUENT AND WASTE DISPOSAL REPORT

## LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JAN THRU JUN 84

NUCLIDES IN CURIES	1 QUARTER		2 QUARTER	
	CONT	BATCH	CONT	BATCH
STRONTIUM-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00 *
STRONTIUM-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00 *
COBALT-57	≤5.48E-04	1.24E-04	0.00E+00	4.67E-04
MOLYBDENUM-99	≤3.00E-03	5.44E-04	0.00E+00	≤2.02E-03
TECHNETIUM-99M	3.26E-03	5.57E-04	0.00E+00	≤2.02E-03
CERIUM-141	9.25E-04	≤1.98E-04	0.00E+00	7.34E-04
TIN-117M	≤4.82E-04	≤1.13E-04	0.00E+00	≤3.98E-04
CHROMIUM-51	≤4.27E-03	≤9.03E-04	0.00E+00	≤3.84E-03
IODINE-131	9.23E-03	9.74E-03	0.00E+00	2.97E-03
IODINE-133	4.90E-03	5.74E-04	0.00E+00	≤4.90E-04
BARIUM-140	≤1.67E-03	≤3.39E-04	0.00E+00	≤1.70E-03
RUTHENIUM-103	≤4.44E-04	1.17E-04	0.00E+00	5.58E-04
CESIUM-137	1.93E-03	9.81E-03	0.00E+00	3.46E-02
ZIRCONIUM-95	≤7.15E-04	1.29E-04	0.00E+00	1.68E-03
NIOBIUM-95	≤4.37E-04	1.16E-04	0.00E+00	8.23E-04
CESIUM-134	2.06E-03	4.88E-03	0.00E+00	2.66E-02
COBALT-58	≤4.25E-04	6.84E-03	0.00E+00	1.92E-02
MANGANESE-54	≤4.24E-04	1.65E-04	0.00E+00	4.92E-04
CESIUM-136	7.38E-04	3.14E-04	0.00E+00	2.66E-04
IRON-59	≤6.81E-04	≤8.49E-05	0.00E+00	≤3.39E-04
ZINC-65	≤7.67E-04	≤9.94E-05	0.00E+00	≤3.80E-04
COBALT-60	≤3.58E-04	7.70E-04	0.00E+00	1.94E-03
LANTHANUM-140	≤3.29E-04	6.77E-05	0.00E+00	1.01E-04
ANTIMONY-124	≤5.10E-04	7.20E-05	0.00E+00	2.35E-04
TOTAL FOR PERIOD	3.81E-02	3.66E-02	0.00E+00	1.02E-01
DISSOLVED GASES				
ENTRAINED GASES				
XENON-133	2.15E-03	3.69E-01	0.00E+00	4.85E-03
XENON-135	≤4.76E-04	1.11E-03	0.00E+00	≤4.07E-04
TOTAL FOR PERIOD	2.63E-03	3.70E-01	0.00E+00	5.26E-03
OTHER, ALPHA & TRITIUM				
ALPHA	1.64E-05	1.31E-05	0.00E+00	1.88E-06
TRITIUM	9.31E+01	4.36E+01	0.00E+00	1.07E+01
GROSS BETA/GAMMA	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	9.31E+01	4.36E+01	0.00E+00	1.07E+01
AVG. CONC. IN UCI/ML				
ALPHA	7.96E-13	4.48E-12	0.00E+00	4.11E-13
TRITIUM	3.25E-06	2.68E-05	0.00E+00	3.76E-06

\*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, 1984 to June 30, 1984



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

January 1984 through June 1984

#### SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

1. Type of Waste	Month Shipped	Number of Shipments	Volume Cu. Meter	Curie Content	Est. Total % Error
a. Spent resins, filter sludges, evaporator bottoms, etc.	January	0	0	0	20%
	February	0	0	0	20%
	March	1	7.22	0.787	20%
	April	6	25.06	4.686	20%
	May	4	15.08	4.360	20%
	June	3	15.08	6.614	20%
Six Month Total (Type A)		<u>14</u>	<u>62.44</u>	<u>16.447</u>	
b. Dry compressable, contaminated equipment, etc.	January	0	0	0	20%
	February	0	0	0	20%
	March	1	10.86	1.294	20%
	April	6	82.11	14.328	20%
	May	5	70.88	8.401	20%
	June	3	27.91	1.600	20%
Six Month Total (Type B)		<u>15</u>	<u>191.76</u>	<u>25.623</u>	
c. Irradiated components and other categories	January	0	0	0	NA
	February	0	0	0	NA
	March	0	0	0	NA
	April	0	0	0	NA
	May	0	0	0	NA
	June	0	0	0	NA
Six Month Total (Type C)		<u>0</u>	<u>0</u>	<u>0</u>	
d. Other	January	0	0	0	NA
	February	0	0	0	NA
	March	0	0	0	NA
	April	0	0	0	NA
	May	0	0	0	NA
	June	0	0	0	NA
Six Month Total (Type D)		<u>0</u>	<u>0</u>	<u>0</u>	

III. RADIOACTIVE EFFLUENT RELEASES - SOLID RADIOACTIVE  
WASTE EFFLUENT AND WASTE DISPOSAL REPORT  
(Continued)

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

1. Percentage of Curies from Represented Isotopes

	<u>Isotope</u>	<u>%</u>	<u>Curies</u>	
a.	Cs-137	54.8%	9.013	All other nuclides constitute less than 1%.
	Cs-134	28.9%	4.753	
	Co-58	9.7%	1.595	
	Co-60	1.4%	0.230	
	H-3	4.9%	0.806	
b.	Cs-137	56.2%	14.400	All other nuclides constitute less than 1%.
	Cs-134	33.1%	8.481	
	Co-58	8.8%	2.255	
	Co-60	1.0%	0.256	
c.	NA	NA	NA	
d.	NA	NA	NA	

C. SOLID WASTE (DISPOSITION)

<u>Number of Shipments</u>	<u>Transportation Mode</u>	<u>Destination</u>
4	Closed Sole Use Vehicle	Barnwell, South Carolina
11	Closed Sole Use Vehicle	Richland, Washington

D. IRRADIATED FUEL SHIPMENTS (DISPOSITION)

<u>Number of Shipments</u>	<u>Transportation Mode</u>	<u>Destination</u>
NA	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, 1984 to June 30, 1984

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 01/01/1984 THROUGH 03/31/1984 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.	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.	1.	0.	0.	0.	0.	0.	0.	1.	4.0
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.	1.	0.	0.	0.	0.	0.	0.	0.	4.0
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.0

TABLE 158 - B

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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.	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.	0.	0.	0.	0.	0.	0.0
SSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
SW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
W	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
NNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
N	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	5.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.0

TABLE 158 - C

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.7
NE	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.5
ENE	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	1.	3.9
E	0.	0.	0.	0.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.9
ESE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.0
SE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.2
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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.4
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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.6
NNW	0.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	6.	3.8
N	0.	0.	1.	1.	0.	0.	0.	2.	0.	0.	0.	1.	0.	0.	0.	2.	1.3
TOTAL	0.	0.	1.	1.	0.	6.	4.	3.	0.	0.	0.	1.	2.	0.	0.	18.	3.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.8

TABLE 15B - D

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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.	1.	4.	12.	10.	5.	6.	5.	0.	1.	1.	0.	0.	0.	0.	45.	2.4
NE	0.	1.	7.	12.	18.	10.	4.	7.	2.	0.	0.	0.	0.	0.	0.	61.	2.3
ENE	0.	1.	4.	6.	6.	5.	11.	6.	1.	0.	0.	0.	0.	0.	0.	40.	2.5
E	0.	2.	2.	2.	7.	7.	5.	8.	1.	1.	0.	0.	0.	0.	0.	35.	2.7
ESE	0.	0.	3.	3.	3.	9.	12.	14.	14.	0.	2.	0.	0.	0.	0.	60.	3.3
SE	0.	0.	3.	5.	8.	18.	14.	9.	16.	5.	2.	3.	0.	0.	0.	83.	3.3
SSE	0.	0.	1.	3.	1.	4.	6.	13.	12.	0.	3.	5.	0.	0.	0.	48.	3.8
S	0.	2.	4.	3.	5.	10.	8.	12.	12.	0.	0.	0.	0.	1.	0.	57.	3.1
SSW	0.	1.	1.	1.	3.	4.	12.	17.	3.	0.	0.	0.	0.	0.	0.	42.	3.2
SW	1.	1.	3.	2.	1.	3.	1.	8.	3.	0.	0.	0.	0.	0.	0.	23.	2.7
WSW	0.	0.	1.	5.	9.	6.	3.	8.	0.	0.	0.	0.	0.	0.	0.	32.	2.6
W	0.	0.	0.	5.	7.	9.	5.	6.	0.	0.	0.	0.	0.	0.	0.	32.	2.6
WNW	0.	1.	7.	7.	4.	1.	1.	2.	1.	0.	1.	0.	0.	0.	0.	24.	2.1
NW	0.	3.	6.	9.	17.	19.	41.	42.	3.	3.	5.	7.	0.	0.	0.	155.	3.2
NNW	0.	2.	7.	15.	32.	38.	85.	103.	18.	6.	11.	10.	2.	0.	0.	329.	3.3
N	0.	3.	4.	10.	14.	15.	27.	16.	7.	1.	0.	0.	0.	0.	0.	97.	2.8
TOTAL	1.	17.	57.	100.	145.	163.	241.	276.	93.	17.	25.	25.	2.	1.	0.	1163.	3.0

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 54.4



TABLE 158 - E

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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.	5.	2.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.	1.2
NE	0.	0.	3.	2.	1.	0.	2.	1.	0.	0.	0.	0.	0.	0.	0.	9.	2.2
ENE	0.	1.	1.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	1.5
E	0.	1.	0.	5.	3.	4.	2.	1.	0.	0.	0.	0.	0.	0.	0.	16.	2.2
ESE	0.	3.	2.	8.	7.	4.	7.	7.	1.	0.	0.	0.	0.	0.	0.	39.	2.5
SE	0.	1.	12.	17.	10.	22.	13.	14.	9.	3.	1.	0.	0.	0.	0.	102.	2.7
SSE	0.	4.	2.	5.	4.	3.	12.	5.	7.	1.	2.	0.	0.	0.	0.	45.	2.9
S	0.	3.	3.	4.	1.	4.	3.	2.	5.	2.	0.	0.	0.	0.	0.	27.	2.6
SSW	3.	6.	3.	7.	6.	6.	7.	5.	2.	1.	0.	0.	0.	0.	0.	46.	2.2
SW	2.	11.	3.	6.	4.	3.	9.	5.	3.	0.	0.	0.	0.	0.	0.	46.	2.1
WSW	0.	4.	6.	4.	7.	6.	6.	4.	2.	2.	0.	0.	0.	0.	0.	41.	2.4
W	1.	5.	11.	7.	5.	5.	8.	6.	2.	2.	0.	0.	0.	0.	0.	52.	2.2
WNW	0.	13.	30.	28.	16.	7.	10.	11.	10.	1.	4.	0.	0.	0.	0.	130.	2.2
NW	1.	7.	16.	35.	17.	20.	14.	24.	4.	2.	0.	1.	0.	0.	0.	141.	2.4
NNW	0.	3.	4.	7.	5.	10.	10.	7.	3.	1.	0.	1.	0.	0.	0.	51.	2.7
N	0.	2.	5.	0.	1.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	10.	1.6
TOTAL	7.	69.	103.	138.	91.	94.	105.	92.	48.	15.	7.	2.	0.	0.	0.	771.	2.4

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 36.0

TABLE 158 - F

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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
	0.4	0.0	0.9	0.5	1.4	1.0	1.9	1.5	2.4	2.0	2.9	2.5	3.4	3.0	3.9	3.5	4.4	4.0	4.9	4.5	5.9	5.0	6.9	6.0	7.9	7.0	8.9	8.0	9.0	INF		
NNE	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1	1.3
NE	0.	0.	1.	1.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.0
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.	1.	0.8
E	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	1.1
ESE	0.	0.	0.	3.	6.	3.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	13.	1.3
SE	0.	0.	2.	2.	4.	2.	2.	1.	1.	1.	2.	1.	1.	1.	1.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	15.	2.1
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.	8.	2.0
S	0.	0.	3.	3.	4.	1.	0.	0.	0.	0.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	12.	1.3
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.	0.	0.	0.	0.	0.	20.	2.2
SW	1.	0.	3.	3.	7.	2.	2.	2.	0.	0.	2.	2.	2.	2.	2.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.	1.7
WSW	0.	0.	0.	0.	1.	1.	4.	1.	1.	1.	3.	2.	2.	2.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	18.	2.0
W	0.	0.	0.	0.	2.	2.	2.	2.	2.	2.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.	1.6
WNW	0.	0.	0.	0.	3.	9.	6.	0.	0.	0.	1.	0.	1.	1.	1.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	22.	1.8
NW	0.	0.	0.	0.	3.	3.	3.	0.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.	1.3
NNW	0.	0.	0.	0.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.9
N	0.	0.	0.	0.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.0
TOTAL	1.	0.	34.	0.	47.	28.	28.	13.	13.	9.	10.	8.	7.	1.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	158.	1.7

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 7.5

TABLE 158 - G

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHCUN 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.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
E	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.3
ESE	0.	0.	1.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.0
SE	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.5
SSE	0.	0.	0.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	1.7
S	0.	0.	0.	0.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.7
SSW	0.	0.	1.	0.	0.	1.	2.	1.	0.	0.	0.	0.	0.	0.	0.	5.	2.7
SW	0.	1.	0.	0.	1.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	7.	2.1
WSW	0.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.0
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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.8
NNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
N	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.3
TOTAL	0.	3.	6.	4.	3.	5.	5.	1.	0.	0.	0.	0.	0.	0.	0.	27.	2.0

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 1.3

TABLE 15B - ALL

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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.	6.	7.	12.	12.	7.	6.	5.	0.	1.	1.	0.	0.	0.	0.	57.	2.2
NE	0.	2.	13.	14.	19.	11.	6.	8.	2.	0.	0.	0.	0.	0.	0.	75.	2.2
ENE	0.	3.	5.	9.	8.	5.	11.	7.	1.	0.	0.	0.	0.	0.	0.	49.	2.4
E	0.	4.	3.	8.	10.	12.	8.	9.	1.	1.	0.	0.	0.	0.	0.	56.	2.5
ESE	0.	6.	12.	14.	11.	15.	19.	22.	15.	0.	2.	0.	0.	0.	0.	116.	2.8
SE	0.	3.	19.	25.	20.	42.	28.	24.	29.	8.	3.	3.	2.	0.	0.	206.	2.9
SEF	0.	6.	5.	11.	8.	8.	19.	19.	19.	1.	5.	5.	0.	0.	0.	106.	3.2
S	0.	8.	11.	8.	7.	15.	13.	15.	18.	2.	0.	0.	0.	1.	0.	98.	2.8
SSW	0.	8.	11.	8.	7.	15.	13.	15.	18.	2.	0.	0.	0.	0.	0.	114.	2.6
SW	3.	10.	9.	10.	13.	13.	23.	26.	6.	1.	0.	0.	0.	0.	0.	90.	2.2
WSW	4.	13.	13.	12.	6.	10.	13.	13.	6.	0.	0.	0.	0.	0.	0.	94.	2.4
W	0.	10.	8.	13.	17.	15.	12.	13.	4.	2.	0.	0.	0.	0.	0.	94.	2.3
WNW	1.	8.	13.	14.	14.	14.	13.	12.	3.	2.	0.	0.	0.	0.	0.	176.	2.1
NW	0.	16.	46.	41.	20.	8.	12.	14.	12.	1.	6.	0.	0.	0.	0.	309.	2.7
NNW	1.	14.	25.	47.	36.	40.	55.	66.	7.	5.	5.	8.	0.	0.	0.	390.	3.2
N	0.	7.	12.	22.	37.	48.	98.	112.	21.	7.	12.	12.	2.	0.	0.	114.	2.6
TOTAL	9.	123.	214.	271.	253.	278.	365.	381.	151.	32.	34.	28.	4.	1.	0.	2144.	2.7

NUMBER OF INVALID OBSERVATIONS= 40.

PERCENT OF VALID OBSERVATIONS= 98.2



TABLE 159 - A

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

DT100 = -2.0 TO -INF IN PERCENT

DATA USED -- WD10 , WS10 , DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.0

TABLE 159 - B

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

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

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.0

TABLE 159 - C

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.7
NE	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.5
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	3.8
E	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.9
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.09	7.2
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.4
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	2.6
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.09	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.28	3.8
N	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.3
TOTAL	0.00	0.00	0.05	0.04	0.00	0.29	0.18	0.14	0.00	0.00	0.00	0.05	0.09	0.00	0.00	0.84	3.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 0.8

TABLE 159 - D

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

DT100 = -0.5 TO -1.4 IN PERCENT

DATA USED -- WD10 , WS10 , DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.00	0.05	0.19	0.56	0.47	0.23	0.28	0.23	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	2.4	
NE	0.00	0.04	0.33	0.56	0.84	0.47	0.19	0.33	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	2.3	
ENE	0.00	0.05	0.19	0.28	0.28	0.23	0.51	0.28	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87	2.5	
E	0.00	0.09	0.09	0.09	0.33	0.33	0.23	0.38	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.64	2.7	
ESE	0.00	0.00	0.14	0.14	0.14	0.42	0.56	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81	3.3	
SE	0.00	0.00	0.14	0.23	0.38	0.84	0.66	0.42	0.75	0.23	0.09	0.14	0.23	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	3.88	3.3	
SSE	0.00	0.00	0.05	0.14	0.04	0.19	0.28	0.61	0.56	0.00	0.14	0.23	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	2.24	3.8	
S	0.00	0.09	0.19	0.14	0.23	0.47	0.37	0.56	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66	3.1	
SSW	0.00	0.05	0.05	0.04	0.14	0.19	0.56	0.79	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.96	3.2	
SW	0.05	0.05	0.14	0.09	0.05	0.14	0.05	0.37	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	2.7	
WSW	0.00	0.00	0.05	0.23	0.42	0.28	0.14	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	2.6	
W	0.00	0.00	0.00	0.24	0.33	0.42	0.23	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.1	
WNW	0.00	0.00	0.33	0.33	0.19	0.05	0.05	0.09	0.04	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.25	3.2	
NW	0.00	0.14	0.28	0.42	0.80	0.89	1.92	1.96	0.14	0.14	0.23	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	15.38	3.3	
NNW	0.00	0.05	0.33	0.70	1.50	1.78	3.97	4.82	0.84	0.28	0.51	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	4.53	2.8	
N	0.00	0.14	0.19	0.47	0.65	0.70	1.26	0.75	0.33	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.37	3.0	
N TOTAL	0.05	0.79	2.69	4.66	6.79	7.63	11.26	12.91	4.35	0.79	1.14	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	54.37	3.0	

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 54.4



TABLE 159 - E

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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
	0.0	0.4	0.5	0.9	1.0	1.4	1.5	1.9	2.0	2.4	2.5	2.9	3.0	3.4	3.5	3.9	4.0	4.4	4.5	4.9	5.0	5.9	6.0	6.9	7.0	7.9	8.0	8.9	9.0	INF		
NNE	0.00	0.00	0.24	0.09	0.09	0.14	0.09	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	1.2
NE	0.00	0.00	0.00	0.14	0.09	0.14	0.09	0.09	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	2.2
ENE	0.00	0.00	0.05	0.05	0.14	0.05	0.14	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	1.5
E	0.00	0.00	0.05	0.00	0.00	0.00	0.23	0.00	0.23	0.14	0.19	0.09	0.09	0.09	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2.5
ESE	0.00	0.00	0.14	0.09	0.37	0.09	0.37	0.33	0.33	0.33	0.19	0.33	0.33	0.33	0.33	0.33	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	2.7
SE	0.00	0.00	0.05	0.56	0.79	0.56	0.79	0.47	0.47	0.47	1.03	0.61	0.61	0.61	0.65	0.42	0.42	0.33	0.05	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77	2.9
SSE	0.00	0.00	0.19	0.09	0.23	0.19	0.23	0.19	0.19	0.19	0.14	0.14	0.14	0.14	0.09	0.23	0.23	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	2.6
S	0.00	0.00	0.14	0.14	0.14	0.14	0.14	0.19	0.05	0.28	0.19	0.28	0.33	0.33	0.23	0.23	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	2.2
SSW	0.14	0.14	0.28	0.14	0.33	0.14	0.33	0.28	0.19	0.28	0.14	0.28	0.33	0.33	0.23	0.23	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	2.1
SW	0.09	0.09	0.52	0.14	0.28	0.14	0.28	0.19	0.33	0.19	0.14	0.28	0.33	0.33	0.23	0.23	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	2.4
WSW	0.00	0.00	0.19	0.28	0.19	0.28	0.19	0.33	0.23	0.33	0.28	0.33	0.38	0.38	0.28	0.19	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92	2.2
W	0.05	0.05	0.23	0.52	0.33	0.52	0.33	0.33	0.23	0.33	0.23	0.33	0.38	0.38	0.28	0.19	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43	2.2
WNW	0.00	0.00	0.61	1.40	1.31	1.40	1.31	0.75	0.75	0.75	0.33	0.33	0.47	0.47	0.51	0.47	0.47	0.47	0.04	0.04	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.08	2.2
NW	0.05	0.05	0.33	0.75	1.64	0.75	1.64	0.79	0.79	0.79	0.93	0.93	0.65	0.65	1.12	0.19	0.19	0.19	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.59	2.4
NNW	0.00	0.00	0.14	0.19	0.33	0.19	0.33	0.23	0.23	0.23	0.47	0.47	0.47	0.47	0.33	0.33	0.14	0.14	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	2.7
NN	0.00	0.00	0.09	0.24	0.00	0.24	0.00	0.00	0.05	0.05	0.00	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	1.6
N TOTAL	0.33	0.33	3.25	4.62	6.45	4.62	6.45	4.26	4.26	4.26	4.40	4.40	4.91	4.91	4.29	4.29	2.23	2.23	0.68	0.68	0.33	0.33	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	36.04	2.4

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 36.0

TABLE 159 - F

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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	TO 0.4	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0	9.0	TOTAL
		TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
NNE	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
NE	0.00	0.05	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
ENE	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
E	0.00	0.05	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
ESE	0.00	0.14	0.28	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
SE	0.00	0.09	0.19	0.09	0.05	0.00	0.00	0.05	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.70
SSE	0.00	0.09	0.00	0.09	0.09	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
S	0.00	0.14	0.19	0.05	0.00	0.00	0.05	0.05	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.56
SSW	0.00	0.14	0.19	0.09	0.19	0.00	0.05	0.09	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.94
SW	0.05	0.00	0.33	0.09	0.00	0.00	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
WSW	0.00	0.23	0.05	0.19	0.05	0.00	0.14	0.09	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.84
W	0.00	0.14	0.10	0.09	0.09	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.47
WNW	0.00	0.14	0.42	0.28	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.04	0.00	0.00	0.00	0.00	1.03
NW	0.00	0.14	0.14	0.14	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
NNW	0.00	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
N	0.00	0.10	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
TOTAL	0.05	1.59	2.22	1.29	0.61	0.42	0.47	0.47	0.38	0.32	0.00	0.04	0.00	0.00	0.00	0.00	7.39

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 7.5

TABLE 159 - G

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
E	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.3
ESE	0.00	0.00	0.05	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.0
SE	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.5
SSE	0.00	0.00	0.09	0.05	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	1.7
S	0.00	0.00	0.00	0.00	0.05	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.7
SSW	0.00	0.00	0.05	0.00	0.00	0.05	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	2.7
SW	0.00	0.05	0.00	0.09	0.05	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	2.1
WSW	0.00	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.0
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
NW	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.8
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
N	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.3
TOTAL	0.00	0.15	0.29	0.19	0.15	0.22	0.22	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	2.0

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 1.3

TABLE 159 - ALL

DATA PERIOD 01/01/1984 THROUGH 03/31/1984 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	0.00	0.28	0.33	0.56	0.56	0.32	0.28	0.23	0.00	0.05	0.05	0.00	0.00	0.00	0.00	2.66	2.2
NE	0.00	0.10	0.61	0.65	0.89	0.51	0.28	0.37	0.09	0.00	0.00	0.00	0.00	0.00	0.00	3.50	2.4
ENE	0.00	0.14	0.24	0.42	0.37	0.23	0.51	0.33	0.05	0.00	0.00	0.00	0.00	0.00	0.00	2.29	2.4
E	0.00	0.19	0.14	0.37	0.46	0.56	0.37	0.42	0.05	0.05	0.00	0.00	0.00	0.00	0.00	2.61	2.5
ESE	0.00	0.28	0.56	0.65	0.51	0.70	0.89	1.03	0.70	0.00	0.09	0.00	0.00	0.00	0.00	5.41	2.8
SE	0.00	0.14	0.89	1.17	0.93	1.96	1.31	1.12	1.35	0.37	0.14	0.14	0.09	0.00	0.00	9.61	2.9
SSE	0.00	0.28	0.23	0.51	0.37	0.37	0.89	0.89	0.84	0.05	0.23	0.23	0.00	0.00	0.00	4.94	3.2
S	0.00	0.37	0.51	0.37	0.33	0.70	0.61	0.70	0.84	0.09	0.00	0.00	0.00	0.05	0.00	4.57	2.8
SSW	0.14	0.47	0.42	0.47	0.61	0.60	1.07	1.21	0.28	0.05	0.00	0.00	0.00	0.00	0.00	5.32	2.6
SW	0.19	0.61	0.61	0.56	0.28	0.47	0.60	0.60	0.28	0.00	0.00	0.00	0.00	0.00	0.00	4.20	2.2
WSW	0.00	0.47	0.37	0.61	0.79	0.70	0.56	0.60	0.19	0.09	0.00	0.00	0.00	0.00	0.00	4.38	2.4
W	0.05	0.37	0.61	0.65	0.65	0.65	0.61	0.56	0.14	0.09	0.00	0.00	0.00	0.00	0.00	4.38	2.3
WNW	0.00	0.75	2.15	1.91	0.93	0.37	0.56	0.65	0.56	0.05	0.28	0.00	0.00	0.00	0.00	8.21	2.7
NW	0.05	0.65	1.17	2.19	1.68	1.87	2.56	3.08	0.33	0.23	0.23	0.37	0.00	0.00	0.00	14.41	2.7
NNW	0.00	0.33	0.56	1.03	1.72	2.24	4.57	5.22	0.98	0.33	0.56	0.56	0.09	0.00	0.00	18.19	3.2
N	0.00	0.33	0.61	0.51	0.70	0.70	1.35	0.74	0.33	0.05	0.00	0.00	0.00	0.00	0.00	5.32	2.6
N TOTAL	0.43	5.76	10.01	12.63	11.78	12.95	17.02	7.75	7.06	1.50	1.58	1.30	0.18	0.05	0.00	100.00	2.7

NUMBER OF INVALID OBSERVATIONS= 40.

PERCENT OF VALID OBSERVATIONS= 98.2

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 RUN FROM TAPE SERIES 1 EX

1	1	0	0	158	1	1	5	3	2	3	4	7	8	9	10	11
1984	4	0	3	0												

DATA COMPLETED

COMP5



TABLE 158 - A

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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.	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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.6
W	0.	0.	0.	0.	0.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	4.	3.1
WNW	0.	0.	0.	0.	3.	1.	1.	1.	2.	0.	0.	0.	0.	0.	0.	7.	3.0
NW	0.	0.	0.	0.	3.	2.	2.	0.	1.	0.	0.	0.	0.	0.	0.	6.	3.4
NNW	0.	0.	0.	0.	2.	2.	2.	0.	1.	2.	1.	0.	0.	0.	0.	8.	3.6
N	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.5
TOTAL	0.	1.	0.	0.	8.	8.	2.	2.	3.	2.	1.	0.	0.	0.	0.	27.	3.0

NUMBER OF INVALID OBSERVATIONS= 4.

PERCENT OF VALID OBSERVATIONS= 1.5

TABLE 15B -- B

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	2.5
NE	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	2.4	
ENE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	4.1	
E	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	2.4	
ESE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	3.6	
SE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	3.3	
SSE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	6.8	
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	6.1	
SSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	4.9	
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.	2.	2.8	
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.	7.	5.5	
W	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
WNW	0.	0.	0.	0.	0.	0.	2.	0.	1.	1.	1.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	2.9	
NW	0.	0.	0.	0.	0.	1.	1.	0.	2.	2.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.	3.1	
NNW	0.	0.	0.	0.	0.	0.	1.	0.	1.	1.	1.	0.	0.	0.	0.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	34.	4.2	
N	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	27.	3.6	
N TOTAL	0.	0.	0.	0.	0.	0.	9.	0.	0.	0.	0.	0.	0.	0.	0.	0.	15.	6.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	120.	3.9	

NUMBER OF ID OBSERVATIONS= 42.

PERCENT V. ID OBSERVATIONS= 6.3

TABLE 15B - C

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.5
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0
ENE	0.	0.	0.	2.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	3.	2.1
E	0.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	2.2
ESE	0.	0.	0.	0.	1.	3.	7.	2.	4.	0.	0.	0.	0.	0.	0.	17.	3.3
SE	0.	0.	0.	0.	0.	4.	4.	2.	1.	3.	5.	0.	0.	2.	0.	21.	4.3
SSE	0.	0.	0.	1.	0.	0.	0.	4.	0.	5.	3.	2.	0.	0.	0.	19.	4.2
S	0.	0.	0.	0.	1.	0.	0.	0.	4.	0.	3.	0.	0.	1.	5.	15.	6.1
SSW	0.	0.	0.	0.	0.	1.	0.	1.	0.	0.	0.	2.	0.	0.	0.	7.	4.6
SW	0.	0.	0.	0.	0.	2.	2.	0.	1.	0.	2.	0.	0.	0.	2.	7.	5.2
WSW	0.	0.	0.	1.	0.	1.	0.	0.	0.	1.	0.	0.	1.	0.	2.	6.	6.9
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.	1.	1.	0.	0.	0.	0.	0.	0.	0.	2.	3.2
NW	0.	0.	0.	2.	0.	4.	0.	1.	0.	0.	1.	1.	0.	0.	0.	9.	3.2
NNW	0.	0.	0.	0.	1.	2.	3.	4.	4.	6.	4.	3.	0.	1.	0.	28.	4.5
N	0.	0.	2.	0.	5.	5.	3.	4.	3.	0.	2.	0.	0.	0.	0.	24.	3.1
TOTAL	0.	0.	3.	9.	8.	29.	21.	19.	17.	18.	18.	8.	1.	4.	9.	164.	4.2

NUMBER OF INVALID OBSERVATIONS= 16.

PERCENT OF VALID OBSERVATIONS= 8.6

TABLE 158 - D

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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
ENE	0.	1.	2.	2.	5.	1.	3.	2.	5.	0.	4.	2.	0.	0.	2.	29.	3.9
NE	0.	0.	4.	2.	4.	2.	2.	1.	3.	9.	6.	2.	0.	1.	0.	36.	3.8
ENE	0.	0.	1.	8.	2.	1.	2.	2.	4.	1.	10.	5.	0.	0.	2.	38.	4.3
E	0.	0.	5.	5.	13.	9.	13.	5.	7.	12.	6.	8.	4.	1.	0.	88.	3.7
ESE	0.	0.	1.	1.	10.	16.	19.	14.	5.	4.	5.	9.	4.	0.	1.	89.	3.8
SE	0.	0.	1.	0.	9.	8.	11.	15.	8.	12.	21.	13.	6.	2.	4.	110.	4.7
SSE	0.	0.	0.	3.	4.	7.	11.	9.	7.	13.	26.	15.	9.	0.	0.	104.	4.7
S	0.	0.	3.	0.	3.	6.	4.	11.	10.	6.	8.	6.	4.	5.	1.	67.	4.6
SSW	0.	0.	0.	2.	1.	4.	8.	4.	5.	7.	9.	3.	0.	3.	0.	46.	4.4
SW	0.	0.	1.	0.	3.	3.	0.	2.	1.	1.	1.	3.	0.	1.	0.	16.	4.0
WSW	0.	1.	3.	3.	2.	2.	4.	0.	1.	1.	3.	2.	1.	0.	4.	27.	4.5
W	0.	0.	0.	0.	2.	2.	1.	4.	1.	0.	2.	10.	2.	1.	0.	25.	5.2
WNW	0.	0.	4.	6.	2.	1.	2.	0.	2.	3.	13.	3.	4.	2.	1.	43.	4.5
NW	0.	0.	3.	2.	5.	4.	5.	2.	1.	2.	8.	7.	2.	0.	0.	41.	4.1
NNW	0.	0.	5.	6.	10.	13.	15.	17.	6.	6.	15.	7.	1.	3.	4.	108.	4.0
N	0.	1.	7.	3.	7.	4.	11.	5.	7.	5.	5.	1.	6.	0.	1.	63.	3.7
TOTAL	0.	3.	40.	43.	82.	83.	111.	93.	73.	82.	142.	96.	43.	19.	20.	930.	4.2

NUMBER OF INVALID OBSERVATIONS= 98.

PERCENT OF VALID OBSERVATIONS= 48.9

TABLE 158 - E

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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.	2.	0.	0.	0.	0.	1.	0.	0.	1.	0.	0.	0.	0.	5.	2.5
NE	0.	0.	2.	2.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	5.	1.9
ENE	0.	0.	1.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	6.	2.0
E	0.	0.	3.	5.	3.	0.	1.	0.	0.	0.	1.	2.	0.	2.	0.	17.	3.3
ESE	0.	2.	5.	13.	3.	4.	0.	2.	0.	2.	2.	0.	3.	1.	4.	41.	3.5
SE	0.	3.	8.	14.	12.	19.	7.	9.	4.	4.	6.	0.	1.	0.	0.	87.	2.7
SSE	0.	1.	0.	4.	7.	13.	8.	11.	3.	4.	5.	5.	0.	0.	0.	61.	3.5
S	0.	2.	4.	2.	0.	3.	7.	4.	6.	2.	2.	1.	1.	0.	0.	34.	3.3
SSW	0.	0.	3.	2.	3.	0.	3.	1.	1.	2.	1.	1.	0.	0.	0.	17.	3.0
SW	0.	3.	1.	2.	0.	3.	2.	0.	1.	1.	2.	2.	1.	0.	0.	18.	3.3
WSW	0.	2.	1.	1.	1.	2.	3.	4.	2.	0.	0.	1.	1.	0.	0.	18.	3.2
W	0.	2.	3.	1.	1.	1.	3.	0.	0.	1.	0.	1.	0.	0.	0.	13.	2.4
WNW	0.	10.	9.	7.	10.	4.	1.	0.	3.	0.	0.	0.	0.	0.	3.	47.	2.4
NW	0.	2.	8.	11.	5.	3.	2.	4.	1.	0.	0.	0.	0.	0.	0.	36.	2.0
NNW	0.	5.	12.	6.	3.	5.	3.	5.	1.	0.	2.	1.	0.	0.	0.	43.	2.3
N	0.	2.	4.	1.	1.	0.	1.	1.	1.	0.	0.	2.	0.	0.	0.	13.	2.6
TOTAL	0.	35.	66.	73.	50.	58.	42.	42.	24.	16.	22.	16.	7.	3.	7.	461.	2.8

NUMBER OF INVALID OBSERVATIONS= 27.

PERCENT OF VALID OBSERVATIONS= 24.3



TABLE 158 - F

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	1.0
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.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.7
ESE	0.	1.	4.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.	1.4
SE	0.	5.	6.	2.	4.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	21.	1.6
SSE	0.	4.	2.	2.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.	1.4
S	0.	1.	1.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.5
SSW	0.	4.	1.	0.	1.	0.	0.	1.	3.	0.	0.	0.	0.	0.	0.	10.	2.3
SW	0.	6.	0.	0.	1.	1.	0.	0.	0.	1.	4.	0.	0.	0.	0.	13.	2.6
WSW	0.	7.	2.	0.	1.	1.	1.	0.	0.	0.	3.	1.	0.	0.	0.	18.	2.5
W	0.	8.	4.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	13.	1.0
WNW	0.	14.	13.	10.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	41.	1.3
NW	0.	1.	12.	7.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	21.	1.3
NNW	0.	1.	2.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	4.	2.2
N	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.7
TOTAL	0.	55.	49.	25.	13.	6.	3.	4.	3.	2.	9.	1.	0.	0.	0.	170.	1.6

NUMBER OF INVALID OBSERVATIONS= 23.

PERCENT OF VALID OBSERVATIONS= 8.9

TABLE 15B - G

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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.	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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.9
SE	0.	0.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.8
SSE	0.	0.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.8
S	0.	0.	1.	1.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	4.0
SSW	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	2.8
SW	0.	0.	1.	0.	0.	1.	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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	3.8
WNW	0.	0.	4.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.6
NW	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.9
NNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.5
N	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.7
TOTAL	0.	17.	6.	1.	0.	1.	0.	1.	1.	1.	0.	0.	1.	0.	0.	29.	1.4

NUMBER OF INVALID OBSERVATIONS= 9.

PERCENT OF VALID OBSERVATIONS= 1.5

TABLE 158 - ALL

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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.	2.	6.	5.	5.	1.	3.	3.	6.	0.	5.	2.	0.	0.	2.	40.	3.4
NE	0.	0.	6.	6.	4.	2.	2.	2.	4.	9.	6.	2.	0.	1.	0.	44.	3.5
ENE	0.	2.	2.	12.	3.	2.	4.	2.	5.	1.	10.	5.	0.	0.	2.	50.	3.7
E	0.	2.	9.	12.	16.	13.	15.	5.	7.	12.	7.	10.	4.	3.	0.	115.	3.5
ESE	0.	4.	11.	17.	16.	23.	27.	20.	10.	6.	7.	9.	7.	1.	5.	163.	3.5
SE	0.	10.	16.	16.	25.	34.	26.	29.	14.	19.	32.	13.	7.	4.	4.	249.	3.6
SSE	0.	8.	4.	10.	11.	25.	19.	26.	10.	22.	34.	22.	11.	1.	0.	203.	4.1
S	0.	4.	9.	4.	4.	10.	11.	16.	22.	8.	13.	8.	5.	8.	6.	128.	4.3
SSW	0.	4.	4.	4.	5.	5.	11.	7.	11.	13.	12.	6.	0.	3.	0.	85.	3.9
SW	0.	10.	2.	2.	4.	11.	5.	2.	3.	4.	7.	5.	1.	1.	2.	59.	3.5
WSW	0.	11.	6.	5.	4.	6.	11.	7.	3.	3.	6.	4.	3.	0.	8.	77.	3.9
W	0.	11.	7.	1.	3.	5.	6.	5.	1.	1.	2.	11.	3.	1.	0.	57.	3.4
WNW	0.	28.	26.	25.	19.	7.	4.	2.	8.	4.	14.	3.	4.	2.	4.	150.	2.7
NW	0.	3.	24.	23.	17.	13.	12.	7.	2.	2.	11.	8.	2.	0.	0.	124.	2.7
NNW	0.	6.	20.	14.	18.	24.	24.	33.	15.	17.	32.	13.	2.	4.	4.	226.	3.7
N	0.	6.	13.	4.	16.	14.	23.	14.	15.	6.	8.	5.	6.	0.	1.	131.	3.4
TOTAL	0.	111.	165.	160.	170.	195.	203.	180.	136.	127.	206.	126.	55.	29.	38.	1901.	3.6

NUMBER OF INVALID OBSERVATIONS= 283.

PERCENT OF VALID OBSERVATIONS= 87.0

TABLE 159 - A

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

DT100 = -2.0 TO -INF IN PERCENT DATA USED -- WD10 , WS10 , DT100  
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NUMBER OF INVALID OBSERVATIONS= 4.

PERCENT OF VALID OBSERVATIONS= 1.5

TABLE 159 - B

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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	0.5 TO	1.0 TO	1.5 TO	2.0 TO	2.5 TO	3.0 TO	3.5 TO	4.0 TO	4.5 TO	5.0 TO	6.0 TO	7.0 TO	8.0 TO	9.0 TO	TOTAL	UBAR
	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.9	6.9	7.9	8.9	INF		
NNE	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.5
NE	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.4
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.1
E	0.00	0.00	0.00	0.06	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.4
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.21	3.6
SE	0.00	0.00	0.00	0.00	0.00	0.05	0.16	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.37	3.3
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.11	0.05	0.00	0.21	3.8
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.05	0.00	0.10	0.00	0.26	6.1
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.11	0.00	0.00	0.00	0.00	0.21	4.9
SW	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	2.8
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.37	5.5
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
WNW	0.00	0.00	0.00	0.00	0.11	0.05	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.31	2.9
NW	0.00	0.00	0.00	0.05	0.16	0.00	0.21	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.53	3.1
NNW	0.00	0.00	0.05	0.05	0.11	0.11	0.16	0.37	0.16	0.16	0.47	0.10	0.05	0.00	0.00	1.79	4.2
N	0.00	0.00	0.00	0.00	0.16	0.21	0.42	0.21	0.21	0.05	0.05	0.11	0.00	0.00	0.00	1.47	3.6
TOTAL	0.00	0.00	0.05	0.49	0.48	0.52	1.26	1.01	0.78	0.31	0.74	0.26	0.16	0.15	0.10	6.31	3.9

NUMBER OF INVALID OBSERVATIONS= 42.

PERCENT OF VALID OBSERVATIONS= 6.3



TABLE 159 - C

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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
	0.0	0.4	0.5	0.9	1.0	1.4	1.5	1.9	2.0	2.4	2.5	2.9	3.0	3.4	3.5	3.9	4.0	4.4	4.5	4.9	5.0	5.9	6.0	6.9	7.0	7.9	8.0	8.9	9.0	TO		
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.5
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	2.1
E	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	2.2
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.16	0.05	0.37	0.00	0.10	0.00	0.21	0.00	0.16	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	3.3
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.21	0.00	0.11	0.05	0.05	0.00	0.26	0.00	0.16	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	4.3
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.21	0.00	0.00	0.00	0.21	0.00	0.21	0.00	0.26	0.00	0.16	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	4.2
S	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.21	0.00	0.16	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	6.1
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.16	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	4.6
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	5.2
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.32	6.9
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	3.2
NW	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.21	0.00	0.21	0.00	0.05	0.00	0.00	0.00	0.32	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	3.2
NNW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.10	0.00	0.16	0.00	0.21	0.00	0.21	0.00	0.32	0.00	0.21	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	4.5
N	0.00	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.26	0.00	0.26	0.16	0.16	0.16	0.21	0.16	0.16	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	3.1
N TOTAL	0.00	0.00	0.00	0.16	0.48	0.41	1.52	1.12	0.94	0.89	0.89	0.95	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.94	0.94	0.43	0.43	0.05	0.05	0.21	0.21	0.48	0.48	8.63	4.2	

NUMBER OF INVALID OBSERVATIONS= 16.

PERCENT OF VALID OBSERVATIONS= 8.6

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 RUN FROM TAPE SERIES TRI-EX

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

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

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.00	0.00	0.05	0.11	0.11	0.26	0.05	0.16	0.11	0.26	0.00	0.21	0.11	0.00	0.00	0.21	0.11	0.00	0.00	0.00	0.21	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1.53	3.9
ENE	0.00	0.00	0.00	0.21	0.11	0.21	0.11	0.10	0.05	0.16	0.47	0.32	0.10	0.00	0.00	0.32	0.10	0.00	0.00	0.00	0.32	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	3.8
E	0.00	0.00	0.00	0.05	0.42	0.11	0.05	0.11	0.11	0.21	0.05	0.53	0.21	0.00	0.00	0.53	0.21	0.00	0.00	0.00	0.32	0.42	0.21	0.05	0.00	0.00	0.00	0.00	0.00	0.00	2.00	4.3
ESE	0.00	0.00	0.00	0.26	0.26	0.69	0.47	0.69	0.26	0.37	0.63	0.32	0.42	0.21	0.00	0.32	0.42	0.21	0.00	0.00	0.32	0.42	0.21	0.05	0.00	0.00	0.00	0.00	0.00	0.00	4.63	3.7
ESE	0.00	0.00	0.00	0.05	0.05	0.53	0.84	1.00	0.74	0.26	0.21	0.26	0.42	0.63	0.11	0.00	0.00	0.00	0.00	0.00	0.26	0.68	0.32	0.11	0.21	0.00	0.00	0.00	0.00	0.00	4.68	3.8
ESE	0.00	0.00	0.00	0.05	0.00	0.47	0.42	0.58	0.79	0.42	0.37	0.68	1.37	0.79	0.47	0.00	0.00	0.00	0.00	0.00	1.11	0.68	0.32	0.11	0.21	0.00	0.00	0.00	0.00	0.00	5.79	4.7
SSE	0.00	0.00	0.00	0.00	0.16	0.21	0.37	0.58	0.47	0.37	0.31	0.42	0.31	0.21	0.16	0.00	0.00	0.00	0.00	0.00	1.37	0.79	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.47	4.7
SSW	0.00	0.00	0.00	0.16	0.00	0.16	0.05	0.21	0.42	0.21	0.26	0.37	0.47	0.16	0.00	0.42	0.31	0.21	0.16	0.00	0.42	0.31	0.21	0.16	0.00	0.00	0.00	0.00	0.00	3.52	4.6	
SW	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.00	0.42	0.21	0.26	0.37	0.47	0.16	0.00	0.05	0.05	0.00	0.00	0.05	0.05	0.16	0.10	0.05	0.00	0.00	0.00	0.00	0.00	2.42	4.4	
WSW	0.00	0.00	0.05	0.16	0.16	0.11	0.11	0.00	0.21	0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.16	0.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	1.42	4.5	
W	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.11	0.05	0.00	0.11	0.05	0.00	0.00	0.21	0.05	0.00	0.00	0.00	0.11	0.53	0.10	0.05	0.00	0.00	0.00	0.00	0.00	1.32	5.2	
WNW	0.00	0.00	0.00	0.21	0.32	0.11	0.05	0.11	0.00	0.11	0.10	0.16	0.68	0.16	0.21	0.00	0.10	0.00	0.00	0.00	0.68	0.16	0.21	0.10	0.00	0.00	0.00	0.00	0.00	2.26	4.1	
NW	0.00	0.00	0.00	0.16	0.11	0.26	0.21	0.26	0.11	0.05	0.11	0.42	0.37	0.10	0.00	0.11	0.05	0.00	0.00	0.11	0.42	0.37	0.10	0.00	0.00	0.00	0.00	0.00	0.00	2.16	4.1	
NNW	0.00	0.00	0.00	0.26	0.32	0.53	0.68	0.79	0.89	0.32	0.31	0.79	0.37	0.05	0.16	0.00	0.00	0.00	0.00	0.31	0.79	0.37	0.05	0.16	0.00	0.00	0.00	0.00	0.00	5.68	4.0	
N	0.00	0.00	0.05	0.37	0.16	0.37	0.21	0.58	0.26	0.37	0.26	0.26	0.05	0.32	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.05	0.32	0.00	0.00	0.00	0.00	0.00	0.00	3.31	3.7	
N TOTAL	0.00	0.00	0.15	2.10	2.29	4.34	4.37	5.65	4.90	3.83	4.29	7.48	5.05	2.25	0.99	1.03	48.92	4.2														

NUMBER OF INVALID OBSERVATIONS= 98.

PERCENT OF VALID OBSERVATIONS= 48.9

TABLE 159 - E

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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

JOINT FREQUENCY DISTRIBUTION WIND DIRECTION VS. WIND SPEED IN METERS/SEC.																			
DT100 = -0.4 TO +1.5 IN PERCENT										DATA USED -- WD10 , WS10 , DT100									
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION																			
SECTOR		0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0	8.0	9.0	TOTAL	UBAR	
		TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO			TO
0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.9	6.9	7.9	8.9						
NNE		0.00	0.05	0.11	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.26	2.5	
NE		0.00	0.00	0.11	0.10	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.26	1.9	
ENE		0.00	0.00	0.06	0.11	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	2.0	
E		0.00	0.00	0.16	0.26	0.16	0.00	0.00	0.05	0.00	0.00	0.05	0.11	0.00	0.00	0.00	0.90	3.3	
ESE		0.00	0.11	0.26	0.68	0.16	0.21	0.00	0.11	0.00	0.11	0.10	0.00	0.16	0.05	0.21	2.16	3.5	
SE		0.00	0.16	0.42	0.74	0.63	1.00	0.37	0.47	0.21	0.21	0.32	0.00	0.05	0.00	0.00	4.58	2.7	
SSE		0.00	0.05	0.00	0.21	0.37	0.69	0.42	0.58	0.16	0.21	0.26	0.00	0.00	0.00	0.00	3.21	3.5	
S		0.00	0.11	0.21	0.11	0.00	0.16	0.37	0.21	0.32	0.10	0.10	0.05	0.05	0.00	0.00	1.79	3.3	
SSW		0.00	0.00	0.16	0.11	0.16	0.00	0.16	0.05	0.05	0.10	0.05	0.05	0.00	0.00	0.00	0.89	3.0	
SW		0.00	0.16	0.05	0.11	0.00	0.16	0.11	0.00	0.05	0.05	0.11	0.10	0.05	0.00	0.00	0.95	3.3	
WSW		0.00	0.11	0.05	0.05	0.05	0.11	0.16	0.21	0.11	0.00	0.00	0.05	0.05	0.00	0.00	0.95	3.2	
W		0.00	0.11	0.16	0.05	0.05	0.05	0.16	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.68	2.4	
WNW		0.00	0.11	0.47	0.37	0.52	0.21	0.05	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.16	2.47	2.4	
NW		0.00	0.11	0.42	0.58	0.26	0.16	0.10	0.21	0.05	0.00	0.00	0.00	0.00	0.00	0.00	1.89	2.0	
NNW		0.00	0.26	0.63	0.32	0.16	0.26	0.16	0.26	0.05	0.00	0.11	0.05	0.00	0.00	0.00	2.26	2.3	
N		0.00	0.11	0.21	0.05	0.05	0.00	0.05	0.05	0.05	0.00	0.00	0.11	0.00	0.00	0.00	0.68	2.6	
TOTAL		0.00	1.87	3.48	3.85	2.62	3.06	2.21	2.20	1.26	0.83	1.15	0.83	0.36	0.16	0.37	24.25	2.8	

NUMBER OF INVALID OBSERVATIONS= 27.

PERCENT OF VALID OBSERVATIONS= 24.3

TABLE 159 - F

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0		
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		
E	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4		
ESE	0.00	0.05	0.32	0.21	0.16	0.11	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10		
SE	0.00	0.26	0.32	0.11	0.21	0.10	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4		
SSE	0.00	0.21	0.11	0.11	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53		
S	0.00	0.06	0.05	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53		
SSW	0.00	0.21	0.06	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21		
SW	0.00	0.32	0.00	0.00	0.00	0.03	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21		
WSW	0.00	0.37	0.11	0.00	0.00	0.06	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53		
W	0.00	0.42	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68		
WNW	0.00	0.74	0.66	0.53	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0		
NW	0.00	0.05	0.63	0.37	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16		
NNW	0.00	0.05	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10		
N	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21		
TOTAL	0.00	2.89	2.60	1.33	0.69	0.30	0.15	0.16	0.10	0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.94		
N TOTAL																																					1.6

NUMBER OF INVALID OBSERVATIONS= 23.

PERCENT OF VALID OBSERVATIONS= 8.9

TABLE 159 - G

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0				
NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0				
ENE	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.7				
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0				
ESE	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.9				
SE	0.00	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.9				
SSE	0.00	0.16	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.8				
S	0.00	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	1.8				
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.0				
SW	0.00	0.06	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.16	2.8				
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0				
W	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.21	3.8				
WNW	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6				
NW	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.9				
NNW	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.5				
N	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.7				
TOTAL	0.00	0.92	0.30	0.05	0.00	0.05	0.00	0.05	0.05	0.05	0.00	0.00	0.05	0.00	0.00	1.52	1.4				

NUMBER OF INVALID OBSERVATIONS= 9.

PERCENT OF VALID OBSERVATIONS= 1.5



TABLE 159 - ALL

DATA PERIOD 04/01/1984 THROUGH 06/30/1984 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

SECTION 33 WIND DIRECTION																																
SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.00	0.11	0.32	0.32	0.26	0.26	0.05	0.16	0.16	0.32	0.32	0.00	0.26	0.10	0.00	0.00	0.00	0.10	0.10	2.10	3.4											
NE	0.00	0.00	0.32	0.32	0.21	0.21	0.11	0.11	0.11	0.21	0.21	0.10	0.10	0.26	0.26	0.00	0.00	0.00	0.00	2.32	3.5											
ENE	0.00	0.11	0.11	0.63	0.16	0.16	0.11	0.21	0.21	0.26	0.26	0.05	0.53	0.26	0.26	0.00	0.00	0.16	0.16	2.63	3.7											
E	0.00	0.11	0.47	0.63	0.84	0.84	0.68	0.79	0.26	0.37	0.37	0.63	0.37	0.53	0.53	0.21	0.21	0.00	0.00	6.05	3.5											
ESE	0.00	0.21	0.58	0.90	0.84	0.84	1.21	1.42	1.05	0.53	0.74	1.00	1.68	0.37	0.47	0.37	0.05	0.26	8.58	3.5												
SE	0.00	0.53	0.84	0.84	1.31	1.31	1.79	1.37	1.53	0.74	1.00	1.68	1.68	1.68	1.68	0.37	0.21	0.21	13.10	3.6												
SSE	0.00	0.42	0.21	0.53	0.58	1.31	1.00	1.37	1.00	1.37	0.52	1.16	1.79	1.16	0.26	0.58	0.05	0.00	10.68	4.1												
S	0.00	0.21	0.47	0.21	0.21	0.21	0.53	0.58	0.58	0.84	1.16	0.42	0.68	0.42	0.26	0.42	0.32	0.32	6.73	4.3												
SSW	0.00	0.21	0.21	0.21	0.21	0.26	0.26	0.26	0.26	0.37	0.58	0.68	0.63	0.32	0.00	0.16	0.16	0.00	4.47	3.9												
SW	0.00	0.53	0.11	0.11	0.21	0.58	0.58	0.26	0.26	0.10	0.16	0.21	0.37	0.26	0.05	0.05	0.10	0.10	3.10	3.5												
WSW	0.00	0.58	0.32	0.26	0.21	0.31	0.31	0.58	0.37	0.37	0.16	0.16	0.31	0.21	0.16	0.00	0.42	0.42	4.05	3.9												
W	0.00	0.58	0.37	0.05	0.16	0.26	0.26	0.32	0.26	0.32	0.26	0.05	0.11	0.58	0.16	0.05	0.00	0.00	3.00	3.4												
WNW	0.00	1.47	1.37	1.31	1.00	0.37	0.21	0.11	0.42	0.21	0.42	0.21	0.74	0.16	0.21	0.10	0.21	0.21	7.89	2.7												
NW	0.00	0.16	1.26	1.21	0.89	0.68	0.63	0.37	0.11	0.11	0.11	0.11	0.58	0.42	0.10	0.00	0.00	6.52	2.7													
NNW	0.00	0.32	1.05	0.74	0.95	1.26	1.26	1.74	0.79	0.79	0.79	0.89	1.68	0.68	0.11	0.21	0.21	11.89	3.7													
N	0.00	0.32	0.68	0.21	0.84	0.74	1.21	0.74	0.79	0.79	0.32	0.32	0.42	0.26	0.31	0.00	0.05	6.89	3.4													
TOTAL	0.00	5.87	8.69	8.42	8.93	10.25	10.69	9.47	7.17	6.68	10.84	6.61	2.89	1.51	1.51	1.98	100.00	3.6														

NUMBER OF INVALID OBSERVATIONS= 283.

PERCENT OF VALID OBSERVATIONS= 87.0

RELEASE NUMBER 84001

CONTAINMENT PURGE

STARTING TIME JAN 5, 1984 HOUR 18 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	3.9	292.6	0.9
19	5.4	317.3	0.4
20	3.9	333.7	1.0
21	3.5	342.1	0.0
22	6.6	312.3	0.0
23	7.8	319.8	0.0
24	6.7	315.9	0.0
1	6.0	319.3	0.8
2	7.7	309.6	0.8
3	8.0	310.1	0.4
4	8.5	305.1	0.4
5	9.2	310.0	0.2
6	8.3	309.8	0.3
7	7.6	308.4	0.3
8	5.4	315.7	1.0
9	5.5	301.6	0.7
10	5.0	298.2	0.7
11	5.1	289.0	0.0
12	4.3	289.5	0.0
13	5.0	277.7	-0.4
14	6.0	253.4	-0.9
15	3.4	249.9	-0.7
16	3.2	269.3	-0.7
17	3.0	237.9	0.3
18	2.4	296.7	-0.2
19	2.0	220.6	-0.1
20	3.5	269.8	0.4
21	0.3	258.9	0.4
22	4.4	276.5	0.5
23	5.2	297.1	0.4
24	3.2	297.2	1.8
1	2.7	274.6	2.9
2	2.1	184.2	2.9
3	1.5	242.7	3.0
4	1.6	258.7	4.0
5	2.1	37.7	4.0
6	2.3	209.1	3.7
7	1.7	254.3	5.1
8	1.8	311.8	5.4
9	2.6	294.8	3.3
10	2.5	318.4	1.9
11	2.1	2.2	2.0
12	2.8	354.0	-0.6
13	3.4	315.4	-0.8
14	4.7	324.0	-0.8
15	4.4	283.7	-0.5
16	4.1	313.1	-0.3
17	3.9	318.0	0.2
18	4.1	323.7	0.3

IV-36

IV-37

19	3.6	321.6	0.8
20	3.2	308.7	1.3
21	3.4	307.0	1.1
22	3.2	284.0	0.6
23	3.6	302.9	1.2
24	3.6	315.7	1.7
1	3.4	326.6	0.9
2	3.9	297.5	1.4
3	2.4	284.7	1.8
4	1.8	329.8	2.1
5	2.0	247.4	3.0
6	1.7	178.7	2.3
7	2.9	145.4	1.4
8	2.9	168.5	1.3
9	4.0	130.5	1.0
10	6.0	126.6	0.0
11	8.6	123.6	0.0
12	8.2	126.8	0.0
13	7.2	123.8	-0.6
14	9.3	116.1	-0.7
15	9.7	122.7	-0.8
16	9.1	111.2	-0.9
17	6.5	89.7	-0.6
18	4.7	78.9	-0.6
19	4.7	177.7	-0.5
20	6.3	189.1	-0.9
21	4.4	352.1	-0.7
22	5.2	92.9	-1.1
23	4.9	101.0	-0.8
24	3.9	27.1	-0.7
1	4.9	34.7	-0.9
2	4.8	25.7	-0.9
3	4.9	42.8	-0.9
4	4.7	40.5	-0.9
5	4.7	5.4	-1.0
6	5.1	357.7	-1.0
7	5.6	348.2	-0.9
8	6.6	337.9	-0.9

STOP TIME JAN 9, 1984 HOUR 7 MINUTE 30

RELEASE NUMBER 84002 CONTAINMENT PURGE  
 STARTING TIME JAN 12, 1984 HOUR 17 MINUTE 45

TIME HOUR	WS10 MPH	WS10 DEG	DT100 DEG C
17	7.4	336.5	-0.9
18	7.6	339.6	-0.7
19	7.7	344.8	-0.7
20	8.4	334.2	-1.0
21	8.1	336.1	-1.0
22	8.3	339.8	-1.0
23	8.7	337.1	-0.7
24	8.2	332.0	-1.0
1	9.0	332.1	-0.2
2	8.7	333.9	-1.0
3	9.2	331.7	-0.9
4	9.5	328.9	-1.0
5	9.3	329.4	-0.9
6	8.5	330.6	-1.0
7	8.5	327.1	-0.8
8	6.7	316.2	-0.9
9	6.8	321.8	-0.8
10	7.7	319.5	-0.8
11	8.3	319.5	-0.9
12	8.0	323.8	-1.0
13	8.7	331.3	-1.1
14	8.5	343.0	-1.2
15	7.8	326.9	-1.0
16	8.3	322.5	-0.9
17	7.8	320.3	-0.3
18	7.5	319.9	-0.4
19	4.7	321.9	-0.8
20	4.4	312.3	0.3
21	4.3	304.0	-0.3
22	3.8	318.5	-0.1
23	5.4	305.5	-0.1
24	4.7	307.7	0.6
1	3.8	303.1	0.1
2	4.4	348.2	-0.6
3	4.4	0.3	-1.0
4	6.1	9.6	-0.5
5	6.6	330.9	-0.8
6	6.7	348.2	-0.8
7	4.7	337.1	-0.3
8	4.5	359.4	-1.4
9	4.4	14.3	-1.0
10	5.4	347.8	-0.8
11	4.6	328.6	-0.3
12	4.8	326.5	-0.6
13	5.9	321.8	-0.6
14	6.3	317.3	-0.3
15	5.6	318.9	-0.4
16	5.4	324.3	-0.3
17	4.6		

IV-39

18	4.7	320.1	0.6
19	3.4	307.9	-0.1
20	2.7	309.2	0.7
21	2.5	48.6	-0.4
22	3.5	66.3	-0.3
23	4.7	76.3	-0.7
24	4.8	82.4	-0.9
1	3.3	67.3	-0.8
2	1.9	31.9	-0.6
3	4.2	45.0	-0.6
4	4.6	58.8	-0.8
5	4.2	55.9	-0.8
6	4.1	54.5	-0.9
7	4.1	57.9	-0.6
8	2.8	65.8	-0.5
9	3.2	49.5	-0.6
10	2.7	42.0	-0.7
11	1.9	0.3	-0.6
12	3.2	32.5	-0.8
13	2.0	60.9	-1.2
14	2.2	359.8	-1.6
15	3.9	37.9	-1.3
16	3.1	24.8	-1.0
17	1.5	337.5	0.0
18	2.2	165.3	0.5
19	2.4	191.0	1.0
20	5.5	214.3	0.9
21	7.5	209.0	1.3
22	6.9	203.0	0.8
23	7.4	189.5	-0.2
24	8.4	207.2	0.3
1	8.9	219.1	-0.2
2	7.2	207.6	0.2
3	6.1	196.1	0.4

STOP TIME JAN 16, 1984 HOUR 2 MINUTE 10



RELEASE NUMBER 84003      CONTAINMENT PURGE

STARTING TIME      JAN 19, 1984      HOUR 20 MINUTE 44

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	7.1	326.6	-0.2
21	4.9	312.7	-0.2
22	3.0	304.2	0.3
23	2.9	298.9	0.2
24	3.5	305.5	0.3
1	7.2	329.0	0.4
2	6.3	330.7	-0.1
3	4.5	323.5	0.2
4	4.4	314.9	0.2
5	5.4	320.5	0.5
6	4.0	311.4	0.4
7	3.6	311.9	0.4
8	3.0	301.2	0.8
9	3.8	296.0	0.2
10	5.4	313.6	-0.6
11	4.9	318.2	-0.9
12	4.8	306.5	-0.9
13	5.7	267.4	-1.1
14	4.8	286.9	-1.2
15	4.7	274.6	-1.2
16	4.9	240.8	-1.0
17	5.5	190.2	-0.9
18	5.2	162.6	-0.5
19	4.2	146.8	0.9
20	7.0	149.8	0.3
21	7.3	146.9	0.6
22	9.2	178.7	0.1
23	6.5	188.3	0.1
24	3.2	187.3	-0.1
1	2.1	192.1	-0.1
2	0.9	197.8	0.2
3	0.9	201.8	0.2
4	0.9	204.0	-0.2
5	2.5	204.7	-0.6
6	7.2	193.2	-0.6
7	9.1	177.9	-0.5
8	8.8	197.0	-0.6
9	7.9	191.1	-0.3
10	7.9	203.5	-0.8
11	7.2	209.2	-0.9
12	7.2	211.4	-1.1
13	8.0	207.3	-1.0
14	8.3	201.3	-1.1
15	8.2	207.3	-1.0
16	8.6	197.4	-1.0
17	6.9	184.3	-0.9
18	5.3	163.9	-0.6
19	5.2	143.1	-0.6
20	5.7	146.2	-0.5

IV-40

IV-41

21	5.8	146.5	-0.7
22	5.1	132.6	-0.5
23	4.5	125.1	-0.7
24	4.8	122.9	-0.4
1	5.9	116.8	-0.2
2	6.6	151.4	-0.1
3	8.8	155.4	0.5
4	7.1	151.6	1.2
5	8.2	128.4	1.0
6	6.4	121.2	0.8
7	6.9	132.5	0.9
8	8.1	137.5	0.3
9	7.9	133.0	0.7
10	8.4	141.2	0.4
11	8.8	169.4	-0.8
12	4.5	173.9	-1.0
13	2.6	183.9	-1.0
14	2.2	185.3	-1.0
15	5.2	185.1	-1.0
16	8.3	185.9	-0.9
17	8.2	184.5	-0.9
18	5.6	169.6	-0.7
19	2.9	132.5	-0.4
20	4.7	141.4	0.0
21	6.0	144.5	-0.3
22	8.9	164.2	-0.9
23	9.3	164.0	-0.8
24	9.0	163.1	-1.0
1	9.3	167.6	-0.7
2	8.7	158.1	-0.8
3	9.3	161.9	-0.8
4	9.3	165.6	-0.9
5	8.2	156.6	-0.8

STOP TIME JAN 23, 1984

HOURLY 4 MINUTE 32

RELEASE NUMBER 84004

CONTAINMENT PURGE

STARTING TIME JAN 27, 1984 HOUR 14 MINUTE 5

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
14	6.2	169.3	-1.0
15	1.3	175.8	-1.0

STOP TIME JAN 27, 1984 HOUR 14 MINUTE 56

RELEASE NUMBER 84005 CONTAINMENT PURGE  
 STARTING TIME JAN 27, 1984 HOUR 20 MINUTE 19

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	8.6	192.3	-0.8
21	5.4	207.0	-0.8
22	1.0	214.0	-0.6
23	1.0	214.2	-0.4
24	1.8	217.7	0.1
1	2.5	230.6	1.7
2	2.7	242.5	1.2
3	3.3	251.6	1.8
4	5.5	269.3	0.3
5	7.8	273.8	0.3
6	8.4	271.6	0.2
7	7.6	281.0	0.5
8	7.5	288.8	0.7
9	6.9	284.0	0.7
10	6.7	288.8	0.3
11	7.6	305.7	-0.1
12	7.4	309.9	-0.3
13	6.8	302.5	-0.2
14	5.8	322.6	-0.4
15	6.3	327.2	-0.5
16	6.4	326.4	-0.1
17	7.8	318.1	0.1
18	5.9	313.0	0.4
19	3.9	302.0	0.9
20	5.7	285.1	0.6
21	5.2	279.6	-0.0
22	5.2	285.4	0.2
23	4.0	301.1	1.4
24	6.9	248.6	2.1
1	3.8	269.5	1.9
2	3.9	247.4	2.5
3	2.3	44.2	3.2
4	3.0	120.8	4.5
5	3.4	133.0	4.6
6	4.7	104.3	2.0
7	6.7	113.0	1.3
8	6.7	111.7	0.6
9	6.3	132.1	-0.2
10	8.3	177.7	-0.4
11	6.0	234.3	-0.4
12	7.6	267.9	-0.3
13	5.5	301.3	0.1
14	2.0	304.9	-0.3
15	1.0	300.9	-0.0
16	1.2	307.0	-0.2
17	0.8	318.6	-0.4
18	1.0	328.0	-1.0
19	2.5	334.3	-1.2

21	5.3	340.9	-1.0
22	5.9	342.4	-0.9
23	5.0	343.3	-1.0
24	5.9	338.8	-1.0
1	5.5	339.1	-1.0
2	5.9	338.5	-0.9
3	7.7	333.6	-0.6
4	7.9	328.2	-0.5
5	8.4	334.9	-1.0
6	7.8	331.9	-0.8
7	7.8	330.4	-0.6
8	7.7	334.5	-0.6

STOP TIME JAN 30, 1984 HOUR 7 MINUTE 52



RELEASE NUMBER 84006

CONTAINMENT PURGE

STARTING TIME FEB 2, 1984 HOUR 16 MINUTE 37

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	5.0	319.8	-0.8
17	7.9	316.3	-0.8
18	8.7	309.0	-0.6
19	8.4	311.2	-0.7
20	8.2	319.9	-0.7
21	6.5	306.4	-0.6
22	4.5	285.1	-0.2
23	7.2	251.4	0.5
24	7.5	229.6	0.4
1	7.6	246.5	0.4
2	6.2	242.8	1.5
3	5.3	241.1	3.1
4	3.1	235.1	2.7
5	6.5	240.0	1.5
6	6.4	249.9	0.6
7	6.7	275.6	-0.1
8	7.7	287.2	-0.2
9	8.4	293.6	-0.1
10	8.2	295.8	-0.5
11	8.4	302.8	-0.5
12	7.8	306.2	-0.7
13	6.6	307.0	-0.6
14	6.6	321.9	-0.6
15	8.4	316.6	-0.6
16	8.6	310.6	-0.5
17	8.1	306.7	-0.3
18	8.6	297.5	0.1
19	8.8	293.2	-0.2
20	8.9	291.8	-0.1
21	8.2	305.9	0.1
22	7.5	318.9	-0.2
23	4.9	322.7	-0.5
24	7.9	318.5	-0.5
1	8.2	317.2	-0.5
2	7.3	310.6	0.1
3	7.8	314.0	-0.5
4	7.6	316.3	-0.6
5	7.6	312.3	-0.8
6	7.6	314.1	-0.3
7	7.0	316.0	-0.7
8	7.9	311.0	-0.7
9	6.9	310.5	-0.7
10	7.8	326.0	-0.9
11	6.3	333.9	-1.0
12	7.7	330.0	-1.2
13	7.4	319.4	-1.1
14	7.2	312.6	-0.8
15	6.9	328.1	-0.9
16	7.1	334.0	-0.9

IV-45

IV-46

17	8.2	321.6	-0.8
18	7.5	319.6	-0.7
19	6.7	306.8	-0.4
20	6.1	286.1	-0.4
21	7.1	274.0	-0.4
22	7.6	266.2	-0.4
23	3.5	307.1	-0.5
24	2.7	342.0	-1.3
1	2.8	337.8	-0.9
2	1.8	335.1	-1.0
3	2.3	335.3	-1.1
4	3.6	334.9	-1.2
5	3.6	338.8	-1.1
6	3.7	335.9	-1.0
7	5.0	339.3	-1.1
8	4.6	335.0	-0.9
9	5.2	335.7	-1.1
10	6.3	339.4	-1.3
11	6.6	343.7	-1.4
12	6.3	341.3	-1.5
13	7.1	337.4	-1.5
14	7.3	340.5	-1.5
15	6.5	332.1	-1.5
16	8.3	330.1	-1.3
17	8.2	332.2	-1.2
18	8.9	328.1	-1.1
19	8.0	331.2	-0.9
20	7.0	334.2	-0.8
21	6.9	323.1	-0.9
22	3.9	330.9	-1.3
23	2.3	23.8	-0.8
24	2.5	183.7	-1.0
1	2.9	215.2	-0.6
2	4.8	153.6	-0.4
3	5.1	141.2	-0.3
4	6.9	149.8	-0.2
5	6.4	135.8	-0.6
6	7.3	133.2	-0.6
7	7.7	135.1	-0.6
8	6.2	135.4	-0.4

STOP TIME FEB 6, 1984 HOUR 7 MINUTE 20

RELEASE NUMBER 84007

CONTAINMENT PURGE

STARTING TIME FEB 9, 1984 HOUR 22 MINUTE 32

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
22	2.9	131.5	1.4
23	3.8	192.9	2.1
24	4.9	204.7	1.2
1	7.6	218.2	0.9
2	5.8	236.7	0.7
3	6.9	233.9	0.4
4	7.8	222.9	-0.9
5	2.7	141.9	-0.4
6	3.3	187.4	-0.7
7	3.7	194.2	-0.9
8	5.4	199.9	-0.8
9	7.5	205.6	-0.7
10	7.9	198.6	-1.0
11	8.7	196.5	-1.1
12	8.1	184.6	-1.1

STOP TIME FEB 10, 1984 HOUR 11 MINUTE 21

STARTING TIME FEB 10, 1984 HOUR 12 MINUTE 7

IV-47

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
12	8.1	184.6	-1.1
13	8.6	187.8	-1.1
14	9.1	184.4	-1.0
15	8.5	185.4	-1.0
16	9.1	177.0	-0.9
17	7.5	165.9	-0.7
18	6.3	158.0	-0.8
19	6.4	139.7	-0.4
20	6.7	126.9	0.1
21	6.9	131.3	0.5
22	6.4	132.7	0.9
23	6.1	133.1	1.0
24	6.0	129.3	1.4
1	5.9	139.5	1.2
2	5.4	134.0	1.2
3	6.3	134.1	-0.0
4	7.2	130.7	-0.2
5	8.0	122.8	-0.4
6	7.2	112.2	-0.3
7	9.1	106.7	-0.8
8	8.0	101.4	-0.5
9	8.6	102.5	-0.6
10	7.9	100.2	-0.7
11	9.1	103.8	-0.3

IV-48

12	8.3	110.2	-0.4
13	7.5	111.0	-0.5
14	6.7	100.3	-0.4
15	4.9	76.4	-0.1
16	4.2	50.3	0.5
17	3.1	35.0	0.5
18	2.5	7.6	1.3
19	4.3	322.8	2.0
20	3.5	295.1	2.4
21	3.1	291.3	3.0
22	3.0	294.3	2.2
23	2.0	151.5	3.5
24	3.0	359.2	6.6
1	5.5	156.4	4.5
2	9.1	154.2	0.8
3	8.5	165.9	-0.0
4	7.1	192.0	-0.6
5	6.3	191.1	-0.7
6	7.3	192.1	-0.6
7	8.4	199.6	-0.7
8	7.9	204.0	-0.7
9	7.4	223.8	-0.8
10	7.7	222.6	-1.1
11	8.2	237.6	-1.1
12	8.0	242.5	-1.0
13	7.4	247.1	-0.5
14	8.2	246.5	-1.1
15	7.9	245.2	-1.1
16	7.1	244.4	-0.9
17	8.6	251.2	-1.0
18	7.9	261.9	-0.8
19	7.5	270.8	-0.6
20	5.6	276.7	-0.5
21	5.0	259.3	-0.4
22	5.4	265.4	-0.4
23	5.6	268.3	-0.5
24	4.2	270.0	-0.7
1	4.7	277.8	-0.8
2	4.9	272.0	-0.7
3	6.2	260.1	-0.7
4	5.3	274.9	-0.8
5	6.4	273.4	-0.8
6	6.0	272.5	-0.6
7	7.7	261.3	-0.6
8	6.6	260.8	-0.4

STOP TIME FEB 13, 1984 HOUR 7 MINUTE 21

RELEASE NUMBER 84008 CONTAINMENT PURGE  
 FEB 16, 1984 HOUR 16 MINUTE 12

TIME HOUR	STARTING TIME	WS10 MPH	WD10 DEG	DT100 DEG C
16		7.7	329.0	-1.1
17		7.6	330.4	-1.0
18		7.3	329.4	-1.1
19		6.9	315.7	-1.2
20		7.3	320.8	-0.7
21		7.3	310.1	-0.8
22		6.7	316.6	-0.8
23		6.0	321.6	-0.6
24		7.3	310.3	-0.9
1		7.1	317.7	-0.6
2		8.1	310.5	-0.8
3		8.1	321.0	-1.1
4		7.7	328.2	-0.9
5		7.0	323.0	-1.0
6		6.8	332.9	-0.8
7		6.1	336.1	-1.2
8		4.3	351.9	-0.9
9		3.8	341.6	-1.0
10		3.6	347.3	-0.8
11		3.2	290.5	-1.1
12		3.3	259.9	-1.1
13		3.6	251.6	-1.1
14		3.5	346.9	-1.3
15		3.9	14.0	-1.3
16		5.4	8.7	-1.2
17		4.2	12.4	-1.5
18		5.3	29.6	-0.4
19		5.7	46.2	-1.0
20		6.2	68.0	-0.8
21		6.2	78.8	-0.6
22		6.5	97.6	-0.7
23		5.1	255.4	-0.7
24		2.3	44.9	-0.7
1		2.3	67.1	-0.5
2		5.3	31.1	-0.3
3		4.9	63.7	-0.7
4		5.6	58.8	-0.6
5		7.3	60.1	-0.6
6		7.6	59.7	-0.6
7		7.5	66.0	-0.9
8		6.5	62.5	-0.5
9		7.4	60.4	-0.6
10		6.6	48.9	-0.3
11		5.7	38.0	-0.5
12		5.3	35.7	-0.4
13		6.6	32.3	-0.6
14		6.5	12.4	-0.7
15		6.2	6.8	-0.6
16		4.7	347.9	-0.6



17	5.8	336.9	-0.8
18	6.8	333.3	-0.8
19	7.9	326.0	-0.4
20	6.8	324.3	-0.8
21	7.8	320.4	-0.8
22	5.1	319.3	-0.9
23	6.5	315.2	-1.3
24	7.0	317.6	-1.2
1	7.0	314.8	-0.9
2	6.1	317.8	-0.9
3	6.6	319.4	-0.8
4	6.4	319.4	-0.9
5	5.6	323.8	-0.7
6	7.4	326.0	-1.0
7	7.2	327.7	-0.8
8	7.4	327.0	-0.9
9	7.9	320.5	-1.5
10	8.0	319.6	-1.0
11	8.9	311.0	-0.9
12	5.7	320.9	-1.1
13	7.2	321.4	-1.1
14	8.1	323.4	-1.1
15	7.9	319.6	-1.1
16	7.4	320.8	-1.0
17	7.9	322.2	-0.8
18	7.8	316.9	-0.5
19	5.0	313.4	0.1
20	5.8	319.0	0.2
21	4.8	320.5	0.6
22	3.5	327.7	0.3
23	3.2	303.9	1.1
24	2.5	282.3	0.9
1	5.1	294.5	1.2
2	4.5	295.3	1.4
3	3.2	296.4	2.0
4	2.1	302.6	2.7
5	1.7	70.6	2.1
6	1.7	95.8	1.8
7	2.0	179.2	1.7
8	1.9	52.9	2.0

STOP TIME FEB 20, 1984 HOUR 7 MINUTE 40

RELEASE NUMBER 84009

CONTAINMENT PURGE

STARTING TIME FEB 23, 1984 HOUR 18 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	7.6	330.0	-0.8
19	6.4	324.4	-0.3
20	4.0	312.2	0.9
21	4.2	314.5	0.5
22	4.5	313.2	1.0
23	4.1	309.0	0.9
24	3.6	297.2	1.1
1	3.7	302.4	1.2
2	3.3	317.7	1.4
3	1.4	324.3	0.8
4	2.2	276.5	0.2
5	2.3	279.9	0.3
6	2.9	294.1	0.7
7	2.3	290.1	0.8
8	1.3	157.2	1.2
9	1.7	253.4	0.2
10	1.7	268.2	-0.4
11	1.8	95.0	-0.8

STOP TIME FEB 24, 1984 HOUR 10 MINUTE 13

STARTING TIME FEB 24, 1984 HOUR 11 MINUTE 20

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
11	1.8	95.0	-0.8
12	2.8	69.2	-0.9
13	3.2	324.6	-1.2
14	2.9	313.3	-1.2
15	2.6	38.5	-1.4
16	3.8	222.7	-1.3
17	4.0	254.3	-1.0
18	2.0	308.7	-0.8
19	1.8	324.3	0.1
20	1.7	311.0	0.1
21	1.5	275.8	1.1
22	1.8	166.4	2.3
23	1.7	108.8	3.3
24	1.5	128.1	3.9
1	2.4	151.3	4.5
2	3.8	164.5	3.5
3	3.0	128.9	3.2
4	3.0	118.4	2.9
5	3.4	105.3	3.9
6	2.4	103.4	3.3
7	3.2	118.3	3.7

IV-51

IV-52

8	5.9	121.0	4.6
9	5.3	161.8	1.2
10	6.3	129.6	-0.7
11	5.9	126.5	-0.8
12	8.7	146.2	-1.1
13	7.~	116.2	-1.2
14	8.4	129.5	-1.1
15	9.4	134.2	-1.1
16	9.3	123.4	-1.0
17	6.2	112.3	-0.9
18	4.0	102.6	-0.9
19	4.1	130.3	-0.1
20	3.6	128.4	0.2
21	3.4	132.1	0.3
22	3.2	121.6	0.3
23	2.1	75.1	0.8
24	2.1	292.2	0.9
1	1.6	290.2	1.3
2	1.9	284.4	0.6
3	3.0	297.1	1.6
4	2.2	292.3	1.3
5	3.5	306.8	1.1
6	3.6	295.5	1.5
7	3.7	294.3	1.2
8	4.1	299.1	0.4
9	4.7	310.1	-0.4
10	4.7	330.9	-0.8
11	5.2	342.1	-1.2
12	5.9	345.6	-1.3
13	6.5	353.0	-1.4
14	7.3	344.1	-1.3
15	7.8	337.5	-1.2
16	7.2	340.5	-0.7
17	7.9	337.3	-0.9
18	7.9	335.3	-1.1
19	7.3	339.3	-1.2
20	7.0	346.4	-1.2
21	6.8	350.7	-0.9
22	6.8	348.1	-0.9
23	6.2	343.6	-0.9
24	6.3	341.7	-0.8
1	6.7	345.0	-0.9
2	5.6	340.9	-1.0
3	6.1	334.8	-1.0
4	5.2	342.3	-1.1
5	6.9	333.8	-1.0
6	6.8	345.2	-0.9

STOP TIME FEB 27, 1984 HOUR 5 MINUTE 52

RELEASE NUMBER 84010

CONTAINMENT PURGE

STARTING TIME MAR 1, 1984 HOUR 14 MINUTE 30

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
14	3.5	349.7	-1.4
15	4.8	13.9	-1.5
16	3.8	2.5	-1.4
17	3.4	350.4	-1.2
18	2.0	5.1	-1.1
19	2.5	274.8	0.4
20	3.3	295.6	1.3
21	2.6	292.5	1.2
22	2.8	304.6	1.2
23	3.1	306.3	0.9
24	3.2	301.7	0.5
1	4.8	321.0	-0.3
2	6.0	329.7	-0.4
3	5.2	336.2	-0.6
4	3.6	335.9	-0.7
5	4.1	1.8	-0.9
6	4.3	36.4	-0.9
7	4.1	46.3	-1.0
8	4.8	56.2	-0.8
9	4.3	61.5	-1.3
10	4.7	44.8	-0.8
11	4.7	34.1	-1.0
12	4.5	40.3	-1.2
13	4.8	34.3	-1.3
14	4.5	39.2	-1.3
15	4.2	37.6	-1.2
16	4.4	43.1	-1.3
17	3.6	15.9	-1.1
18	4.1	38.7	-1.0
19	3.4	59.6	-1.4
20	2.4	51.9	-0.9
21	2.7	71.2	-0.8
22	1.6	88.4	-0.7
23	2.5	144.2	-0.6
24	3.8	123.4	-0.6
1	3.5	140.7	-0.8
2	2.6	133.6	-0.5
3	5.0	124.5	-0.4
4	3.7	144.4	-0.1
5	3.1	125.4	-0.4
6	3.3	138.6	0.1
7	2.9	144.1	0.3
8	2.5	132.5	0.4
9	5.9		

126.7 -0.5

STOP TIME MAR 3, 1984 HOUR 8 MINUTE 16

IV-53

STARTING TIME MAR 3, 1984 HOUR 8 MINUTE 30

TIME  
HOUR

WS10  
MPH

WD10  
DEG

DT100  
DEG C

8	2.5	132.5	0.4
9	5.9	126.7	-0.5
10	9.8	130.8	-1.1
11	9.6	141.1	-1.2
12	9.5	136.6	-1.3
13	7.8	150.0	-1.1
14	7.1	123.2	-1.1
15	9.0	136.5	-1.2
16	8.7	127.5	-1.0
17	9.2	111.8	-0.8
18	9.6	128.2	-0.7
19	7.5	118.6	-0.5
20	4.9	124.4	-0.5
21	8.4	130.2	-0.5
22	6.3	131.7	-0.6
23	6.6	127.9	-0.5
24	9.1	146.5	-0.4
1	6.1	126.5	-0.4
2	3.8	127.8	-0.4
3	6.0	114.7	-0.6
4	2.8	291.8	-0.8
5	2.0	354.6	-0.7
6	2.0	28.8	-0.5
7	3.3	309.4	-0.7
8	6.5	311.2	-0.9
9	8.4	309.9	-1.3
10	8.2	310.2	-1.1
11	8.1	306.9	-0.9
12	5.9	306.0	-0.9
13	5.2	304.5	-1.1

STOP TIME MAR 4, 1984 HOUR 12 MINUTE 19



RELEASE NUMBER 84011 CONTAINMENT PURGE

TIME HOUR	STARTING TIME	WS10 MPH	WD10 DEG	DT100 DEG C	HOUR 15 MINUTE 0
15		3.9	299.7	-0.8	
16		1.5	306.7	-0.8	
17		2.1	312.0	-0.9	
18		4.2	316.1	-0.8	
	STOP TIME				HOUR 17 MINUTE 30

TIME HOUR	STARTING TIME	WS10 MPH	WD10 DEG	DT100 DEG C	HOUR 21 MINUTE 0
21		5.1	317.7	-0.9	
22		5.0	315.4	-1.0	
23		5.9	320.4	-1.2	
	STOP TIME				HOUR 22 MINUTE 50

RELEASE NUMBER 84012      CONTAINMENT PURGE

STARTING TIME      MAR    5, 1984      HOUR   1 MINUTE 57

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
1	6.7	316.2	-0.7
2	6.7	319.1	-1.1
3	6.7	326.4	-1.0
4	8.1	324.4	-0.9
5	7.2	323.4	-0.7
6	8.4	318.9	-0.7
7	8.8	316.2	-0.6
8	7.7	322.7	-0.9
9	5.8	331.0	-1.1
10	5.6	328.8	-1.3
11	5.6	324.1	-1.4
12	5.8	328.4	-1.4
13	5.7	321.2	-1.5
14	7.3	331.3	-1.5
15	6.9	330.1	-1.4

STOP TIME      MAR    5, 1984      HOUR 14 MINUTE 38

RELEASE NUMBER 84013

CONTAINMENT PURGE

STARTING TIME MAR 5, 1984 HOUR 18 MINUTE 5

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	6.7	343.2	-1.2
19	5.7	346.7	-1.0
20	4.2	337.3	-0.6
21	3.8	353.7	-1.1
22	5.3	345.5	-1.1
23	4.9	343.3	-1.1
24	4.4	356.4	-1.0
1	4.9	343.9	-1.5
2	6.0	339.4	-0.7
3	6.3	11.6	-1.2
4	4.9	11.2	-1.0
5	5.1	21.9	-1.0
6	4.9	30.3	-1.1
7	4.5	28.3	-0.6
8	4.3	31.2	-0.9
9	4.4	38.0	-1.1
10	4.6	45.1	-1.4
11	4.8	77.7	-1.4

STOP TIME MAR 6, 1984 HOUR 10 MINUTE 7

IV-57

RELEASE NUMBER 84014 CONTAINMENT PURGE

TIME HOUR	STARTING TIME	WS10 MPH	WD10 DEG	DT100 DEG C	HOUR	MINUTE
14		6.2	118.4	-1.5	MAR	6
15		6.1	116.9	-1.4		14
16		6.9	119.0	-1.3		15
17		6.3	102.0	-1.2		16
18		7.7	103.6	-1.0		17
19		7.6	103.2	-0.9		18
20		8.5	109.1	-1.0		19
21		7.9	91.5	-0.3		20
22		7.5	87.9	-0.5		21
23		7.3	77.1	-0.8		22
24		6.4	53.4	-1.1		23
1		8.0	42.4	-0.7		24
	STOP TIME				MAR	7
						0
						15

TIME HOUR	STARTING TIME	WS10 MPH	WD10 DEG	DT100 DEG C	HOUR	MINUTE
1		8.0	42.4	-0.7	MAR	7
2		7.6	41.2	-1.0		50
3		6.8	44.9	-1.0		51
4		6.4	45.3	-1.1		52
5		5.6	36.0	-1.2		53
6		4.5	17.2	-1.3		54
7		4.1	26.3	-0.9		55
8		2.6	20.4	-1.0		56
9		2.4	310.4	-1.0		57
10		2.5	107.6	-1.2		58
11		7.3	149.9	-1.0		59
12		8.5	165.1	-1.1		00
13		9.4	174.9	-1.0		01
14		8.0	205.8	-1.0		02
15		5.1	246.9	-1.0		03
16		6.8	304.1	-0.9		04
17		7.8	325.2	-0.9		05
18		7.4	316.2	-0.6		06
19		6.9	325.0	-0.7		07
20		5.8	317.3	-0.8		08
21		4.0	311.8	-0.8		09
22		3.9	306.3	-0.7		10
23		2.3	302.0	-0.6		11
24		3.6	311.3	-1.0		12
1		4.7	312.0	-0.8		13
2		3.5	321.7	-0.8		14
3		4.3	328.1	-0.9		15

4	6.0	326.0	-1.0	
5	7.2	323.9	-1.2	
	STOP TIME	MAR	8, 1984	HOUR 4 MINUTE 30



RELEASE NUMBER 84015		CONTAINMENT PURGE	
TIME HOUR	STARTING TIME	MAR 8, 1984	HOUR 11 MINUTE 19
11	WS10 MPH	WD10 DEG	DT100 DEG C
12	8.1	333.2	-1.3
13	7.8	330.8	-1.3
14	8.1	334.9	-1.4
15	7.1	337.6	-1.4
16	6.6	336.5	-1.3
17	6.2	348.9	-1.2
	6.4	323.2	-1.2
	STOP TIME	MAR 8, 1984	HOUR 16 MINUTE 25

RELEASE NUMBER 84016 CONTAINMENT PURGE

STARTING TIME MAR 8, 1984 HOUR 21 MINUTE 10

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
21	2.9	8.9	-1.1
22	1.9	305.8	-0.2
23	1.6	280.5	-0.2
24	1.6	224.3	-0.1
1	1.8	220.2	0.3
2	1.7	177.9	0.6
3	1.6	197.3	0.7
4	3.0	131.8	0.8
5	2.9	136.9	0.8
6	3.0	135.0	0.6
7	4.2	128.8	0.4
8	5.6	138.7	-0.9

STOP TIME MAR 9, 1984 HOUR 7 MINUTE 35

RELEASE NUMBER 84017		CONTAINMENT PURGE	
TIME HOUR	STARTING TIME	MAR 9, 1984	HOUR 9 MINUTE 10
	WS10 MPH	WD10 DEG	DT100 DEG C
9	6.5	129.2	-1.1
10	6.2	122.1	-1.1
11	6.6	126.4	-1.0
12	7.3	127.9	-1.0
13	5.2	135.9	-0.7
14	4.2	133.2	-0.8
15	4.4	135.9	-0.7
16	2.8	127.4	-0.8
17	3.1	54.2	-1.2
18	3.5	18.0	-1.2
STOP TIME		MAR 9, 1984	HOUR 17 MINUTE 38

RELEASE NUMBER 84018

CONTAINMENT PURGE

STARTING TIME MAR 9, 1984 HOUR 18 MINUTE 20

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	3.5	18.0	-1.2
19	4.8	326.3	-0.9
20	5.3	331.3	-1.0
21	6.0	334.3	-1.0
22	5.5	331.7	-0.6
23	5.9	315.9	0.4
24	4.2	291.7	1.2

STOP TIME MAR 9, 1984 HOUR 23 MINUTE 27

RELEASE NUMBER 84019      CONTAINMENT PURGE

STARTING TIME      MAR 10, 1984      HOUR 1 MINUTE 17

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
1	3.0	290.9	0.7
2	2.6	240.7	0.9
3	2.6	216.1	2.6
4	2.7	229.8	3.6
5	2.6	183.1	2.0
6	3.6	178.6	1.3
7	3.8	155.7	2.0
8	8.3	206.8	2.7
9	6.2	215.2	1.7
10	1.5	212.9	-0.3

STOP TIME      MAR 10, 1984      HOUR 9 MINUTE 20



RELEASE NUMBER 84020      CONTAINMENT PURGE

STARTING TIME      MAR 10, 1984      HOUR 9 MINUTE 40

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
9	6.2	215.2	1.7
10	1.5	212.9	-0.3
11	0.9	207.7	-0.8
12	2.1	218.0	-1.2
13	3.1	225.7	-1.3
14	7.6	260.5	-1.3
15	8.2	274.7	-1.3
16	5.5	320.2	-1.1
17	6.6	325.8	-1.1
18	7.6	324.5	-0.7
19	7.9	331.7	-0.6
20	7.0	328.6	-0.5
21	4.2	319.9	-0.4

STOP TIME      MAR 10, 1984      HOUR 20 MINUTE 15

RELEASE NUMBER 84021

CONTAINMENT PURGE

STARTING TIME MAR 10, 1984 HOUR 20 MINUTE 45

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	7.0	328.6	-0.5
21	4.2	319.9	-0.4
22	7.1	335.4	-1.0
23	7.3	352.4	-0.7
24	6.6	19.0	-1.0
1	5.8	13.2	-1.0
2	4.7	12.2	-1.2
3	3.3	2.1	-0.6
4	3.1	340.7	-0.7
5	2.7	332.1	-0.9
6	4.7	343.6	-0.9
7	6.4	8.0	-1.3
8	6.9	15.1	-1.1
9	6.8	58.1	-1.4
10	6.6	69.8	-1.5
11	7.9	64.1	-1.4
12	8.5	76.2	-1.5
13	7.5	88.9	-1.5
14	8.1	98.6	-1.3
15	8.0	97.4	-1.4
16	8.7	84.4	-1.3
17	7.9	88.4	-1.2

STOP TIME MAR 11, 1984 HOUR 16 MINUTE 35

99-11

RELEASE NUMBER 84022      CONTAINMENT PURGE

STARTING TIME      MAR 11, 1984      HOUR 21 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
21	8.9	112.6	-1.0
22	7.5	98.5	-1.3
23	8.0	99.5	-0.7

STOP TIME      MAR 11, 1984      HOUR 22 MINUTE 20

RELEASE NUMBER 84023      CONFINEMENT PURGE

STARTING TIME      MAR 12, 1984      HOUR 8 MINUTE 36

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
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8	5.6	91.4	-1.1
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STOP TIME      MAR 12, 1984      HOUR 7 MINUTE 37

RELEASE NUMBER 84024      CONTAINMENT PURGE

STARTING TIME      MAR 13, 1984      HOUR 7 MINUTE 55

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
7	11.3	159.3	-0.7
8	11.3	152.1	-0.6
9	8.2	146.1	-0.6
10	9.2	159.2	-0.9
11	9.4	134.1	-0.7
12	10.1	131.6	-0.8
13	9.9	137.6	-0.6
14	8.8	131.5	-0.8
15	9.4	129.6	-0.6
16	6.0	132.4	-0.7
17	5.3	127.7	-0.8
18	4.3	121.3	-0.6
19	4.3	133.2	-0.3
20	4.4	129.8	-0.2
21	3.8	125.4	-0.3
22	3.9	124.4	-0.2

STOP TIME      MAR 13, 1984      HOUR 21 MINUTE 17

STARTING TIME      MAR 13, 1984      HOUR 21 MINUTE 31

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
21	3.8	125.4	-0.3
22	3.9	124.4	-0.2
23	5.8	130.1	-0.5
24	7.0	146.0	-0.5
1	5.9	138.7	-0.2
2	7.0	142.5	-0.7
3	8.7	155.3	-0.4

STOP TIME      MAR 14, 1984      HOUR 2 MINUTE 15

69-11



RELEASE NUMBER 84025      CONTAINMENT PURGE

STARTING TIME      MAR 14, 1984      HOUR 10 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
10	14.2	162.1	-0.6
11	14.1	155.7	-0.5
12	14.1	145.7	-0.7
13	14.0	146.0	-0.7
14	12.8	142.6	-1.1
15	15.2	142.0	-1.3
16	16.4	140.9	-1.5
17	15.8	143.1	-1.6
18	14.7	149.8	-0.7
19	12.4	151.4	-0.3
20	14.5	154.9	-0.5
21	12.2	154.3	-0.3
22	12.4	142.8	-0.3
23	2.9	206.4	-0.2
24	2.7	320.5	1.6
1	-99.0	-99.0	-99.0
2	-99.0	-99.0	-99.0
3	-99.0	-99.0	-99.0
4	2.6	327.9	2.6
5	6.1	322.2	0.4

STOP TIME      MAR 15, 1984      HOUR 4 MINUTE 36

STARTING TIME      MAR 15, 1984      HOUR 5 MINUTE 4

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
5	6.1	322.2	0.4
6	9.7	321.8	-0.3
7	11.9	329.1	-0.6
8	9.0	334.2	-0.3
9	10.3	338.2	-0.7
10	13.4	338.6	-1.6
11	11.1	343.5	-1.0
12	13.4	340.9	-1.2
13	11.0	346.8	-1.1

STOP TIME      MAR 15, 1984      HOUR 12 MINUTE 59

IV-70

RELEASE NUMBER 84026      CONTAINMENT PURGE

STARTING TIME      MAR 15, 1984      HOUR 16 MINUTE 40

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
16	12.3	335.8	-1.8
17	10.7	339.9	-0.9
18	9.9	330.2	-0.8
19	10.2	345.3	-0.7
20	7.2	343.0	-1.1

STOP TIME      MAR 15, 1984      HOUR 19 MINUTE 50

STARTING TIME      MAR 15, 1984      HOUR 20 MINUTE 26

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	7.2	343.0	-1.1
21	8.3	343.1	-0.8
22	8.3	348.4	-0.8
23	9.1	352.9	-1.0
24	9.0	4.0	-0.7
1	8.7	7.6	-0.9
2	7.6	18.8	-1.2
3	6.3	6.2	-1.2
4	6.2	342.7	-1.0
5	7.3	2.5	-1.1
6	7.1	19.3	-1.2
7	5.9	41.7	-1.0
8	5.8	41.9	-1.1
9	6.1	33.2	-1.2
10	6.2	42.0	-1.2
11	6.5	35.4	-1.2
12	6.9	46.9	-1.2
13	6.9	48.6	-1.2
14	7.6	59.5	-1.1
15	8.3	62.7	-1.1
16	10.6	79.1	-0.9

STOP TIME      MAR 16, 1984      HOUR 15 MINUTE 20

IV-71

RELEASE NUMBER 84027		CONTAINMENT PURGE	
STARTING TIME		MAR 16, 1984 HOUR 17 MINUTE 10	
TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
17	11.0	21.1	-0.8
18	9.4	183.9	-1.0
19	9.3	180.8	-0.8
20	9.2	177.7	-0.8
21	18.4	175.4	-0.6
22	8.4	177.4	-0.7
23	9.0	179.3	-0.7
24	9.3	174.0	-0.4
1	-99.0	-99.0	-99.0
2	-99.0	-99.0	-99.0
3	-99.0	-99.0	-99.0
4	-99.0	-99.0	-99.0
5	-99.0	-99.0	-99.0
6	-99.0	-99.0	-99.0
7	-99.0	-99.0	-99.0
8	-99.0	-99.0	-99.0
9	-99.0	-99.0	-99.0
10	-99.0	-99.0	-99.0
11	-99.0	-99.0	-99.0
12	-99.0	-99.0	-99.0
13	-99.0	-99.0	-99.0
14	-99.0	-99.0	-99.0
15	-99.0	-99.0	-99.0
16	-99.0	-99.0	-99.0
STOP TIME		MAR 17, 1984 HOUR 15 MINUTE 50	

RELEASE NUMBER 84026

CONTAINMENT PURGE

STARTING TIME

MAR 17, 1984

HOUR 18 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	-99.0	-99.0	-99.0
19	-99.0	-99.0	-99.0
20	-99.0	-99.0	-99.0
21	-99.0	-99.0	-99.0
22	-99.0	39.0	-99.0
23	-99.0	-99.0	-99.0
24	-99.0	-99.0	-99.0
1	4.5	76.1	-0.7
2	6.1	92.2	-0.9
3	5.4	87.5	-0.9
4	5.5	81.8	-1.0
5	6.1	71.0	-1.0
6	6.2	65.0	-0.9
7	6.6	61.2	-0.8
8	7.3	64.6	-1.3
9	8.0	61.1	-1.2
10	8.4	71.4	-1.1
11	8.8	86.6	-1.0
12	8.1	71.9	-1.2
13	9.4	59.9	-1.2
14	8.0	64.2	-1.2
15	7.2	62.4	-1.1
16	8.6	42.7	-1.1
17	9.0	46.5	-1.0
18	7.9	42.5	-0.8
19	6.7	41.2	-0.4
20	8.0	33.8	-0.9
21	8.1	33.2	-0.6
22	8.4	32.9	-0.9
23	9.2	42.7	-0.9
24	8.2	40.1	-0.6
1	8.5	42.0	-0.2
2	8.0	43.1	-0.9
3	5.4	28.1	-1.2
4	5.7	10.3	-0.9
5	6.6	357.5	-0.9
6	8.5	355.7	-1.1
7	9.1	355.1	-0.7
8	9.5	359.6	-1.0
9	9.6	0.1	-1.2
10	10.1	360.0	-1.0
11	8.6	313.8	-1.3
12	8.5	357.4	-1.1
13	8.1	2.8	-1.0
14	8.3	12.3	-1.0
15	8.3	19.6	-1.4
16	10.6	21.4	-1.3
17	8.1	14.5	-1.1
18	8.3	354.0	-1.0

IV-73

19	8.1	347.3	-1.0
20	7.0	345.7	-0.9
21	8.0	339.7	-1.1
22	8.4	334.2	-0.5
23	7.2	331.3	-0.8
24	8.5	332.0	-0.7
1	6.7	331.1	0.6
2	6.0	324.9	1.0
3	7.4	326.5	0.4
4	8.5	320.4	-0.2
5	8.6	317.5	0.2
6	7.5	319.4	-0.5
7	8.6	325.2	-0.7
8	8.8	325.2	-0.5
9	6.8	332.3	-0.9
10	5.6	339.9	-0.6
11	6.3	334.4	-0.6
12	7.7	331.1	-0.9
13	10.2	325.7	-1.3
14	13.9	327.2	-1.2
15	13.0	331.9	-0.9
16	12.9	332.4	-0.8
17	14.4	335.2	-0.8
18	13.3	331.4	-0.8
19	11.9	336.7	-0.7
20	14.0	331.8	-0.3
21	13.7	332.3	-0.6
22	11.2	324.4	-0.5
23	10.3	323.1	-0.5
24	11.4	323.2	-0.6
1	10.8	320.2	-0.5
2	11.3	314.4	-0.6
3	12.7	321.9	-0.5
4	14.4	322.7	-0.5
5	14.0	320.9	-0.6
6	12.7	323.1	-0.5
7	12.1	328.5	-0.7
8	13.4	332.8	-0.7
9	14.8	332.8	-0.8
10	15.3	334.2	-0.9
11	14.6	330.1	-0.9
12	14.2	322.6	-0.8
13	14.7	323.0	-0.8
14	14.8	320.2	-0.8
15	15.3	321.1	-0.8
16	14.7	322.2	-0.7
17	15.8	331.0	-0.7
18	13.2	329.8	-0.7
19	13.6	325.9	-0.4
20	16.3	327.5	-0.5
21	12.9	332.5	-0.6
22	9.6	334.7	-0.6
23	9.9	334.2	-0.9
24	7.8	337.4	-0.9
1	10.8	332.6	-0.2



IV-75

2	8.3	346.9	-0.6
3	8.3	333.1	-0.8
4	7.1	323.6	-0.5
5	8.8	333.6	-0.6
6	6.8	342.3	-1.2
7	8.1	337.9	-0.8
8	7.3	347.3	-0.9
9	7.2	335.3	-1.0
10	9.5	327.3	-1.0
11	9.5	351.2	-1.0
12	8.7	327.7	-1.0
13	0.8	328.5	-1.1
14	8.3	337.3	-1.3
15	8.0	346.7	-1.3
16	8.0	342.4	-1.3
17	7.6	342.1	-1.2
18	6.7	354.1	-1.0
19	4.8	356.7	-0.4
20	3.4	335.2	0.2
21	3.7	311.9	0.3
22	3.1	292.1	0.6
23	2.9	303.3	0.7
24	3.6	304.7	1.3
1	3.2	330.7	1.1
2	2.3	340.5	0.3
3	1.6	283.9	0.8
4	2.0	19.7	0.5
5	2.7	338.7	-0.2
6	4.5	45.0	-0.6
7	3.6	31.3	-0.8
8	3.2	42.6	-1.0

STOP TIME      MAR 23, 1984      HOUR 7 MINUTE 50

STARTING TIME      MAR 23, 1984      HOUR 8 MINUTE 17

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
8	3.2	42.6	-1.0
9	3.5	70.5	-1.1
10	2.9	32.4	-1.2
11	3.0	318.9	-1.4
12	3.3	243.8	-1.1
13	3.8	275.4	-1.2
14	3.4	287.5	-1.3
15	4.5	312.6	-1.4
16	5.3	352.8	-1.3
17	4.7	347.8	-1.3
18	3.6	346.0	-1.1
19	3.2	336.0	-0.8
20	1.9	284.9	0.8
21	2.5	277.3	1.4

22	2.1	285.8	1.1
23	2.0	289.1	1.1
24	2.0	150.3	1.2
1	2.0	207.6	2.2
2	2.0	275.1	1.6
3	2.4	307.9	1.0
4	2.3	285.6	1.2
5	2.4	268.7	1.3
6	1.7	252.7	2.1
7	2.8	274.3	1.4
8	2.6	292.9	1.3
9	2.9	309.4	0.8
10	2.3	297.0	0.2
11	3.2	7.6	-0.6
12	4.7	40.2	-1.0
13	4.0	63.5	-1.4
14	5.0	53.5	-1.3
15	5.7	51.1	-1.3
16	5.9	75.0	-1.3
17	7.8	113.6	-1.1
18	7.3	107.2	-0.9
19	4.3	97.4	-0.6
20	2.1	5.9	0.4
21	1.5	2.4	1.0
22	1.7	159.3	0.8
23	1.3	282.4	1.0
24	2.1	259.8	2.0
1	3.7	121.5	2.0
2	2.2	133.4	2.8
3	1.5	210.8	2.9
4	1.8	357.6	2.9
5	1.4	281.4	3.0
6	1.7	118.1	3.0
7	1.7	283.5	3.0
8	1.5	323.7	3.3
9	2.9	133.5	0.6
10	6.2	137.4	-0.8
11	5.5	145.3	-1.2
12	5.4	197.6	-1.5
13	7.9	154.2	-1.3
14	7.8	127.5	-1.4
15	8.2	109.4	-1.3
16	9.0	113.0	-1.2
17	8.7	114.6	-1.0
18	7.0	104.2	-0.8
19	5.5	98.3	-0.3
20	5.2	120.0	-0.3
21	5.5	130.1	-0.1
22	6.3	126.6	-0.2
23	3.9	115.9	-0.4
24	4.0	117.7	-0.3
1	2.2	1.3	0.0
2	2.0	25.8	-0.4
3	3.4	35.8	-0.6
4	2.8	353.3	-0.6

5	2.6	349.0	-0.3
6	2.6	326.0	-0.3
7	-99.0	-99.0	-99.0
8	5.7	328.8	-0.3
9	4.3	345.0	-0.6
10	4.5	352.7	-0.7
11	5.5	356.4	-0.8
12	6.8	343.5	-1.3
13	8.2	343.8	-1.4
14	7.0	346.0	-1.3
15	8.7	359.5	-1.2
16	8.8	9.6	-1.1
17	8.5	340.8	-1.1
18	8.6	341.6	-0.8
19	9.8	343.3	-0.6
20	8.4	345.0	-1.0
21	8.1	349.0	-0.8
22	8.3	343.4	-0.8
23	8.8	345.5	-0.5
24	8.3	350.4	-0.8
1	5.3	120.5	-0.4
2	7.9	123.6	-0.3
3	7.2	135.5	0.1
4	6.4	131.0	0.1
5	6.1	129.5	-0.5
6	7.1	113.7	-0.4
7	6.0	116.1	-0.1
8	8.9	207.2	0.9
9	11.5	299.5	-1.3
10	8.9	249.6	-2.3
11	9.4	111.0	-1.3
12	7.8	104.8	-0.9
13	8.4	97.6	-1.0
14	13.1	109.1	-1.1
15	12.8	112.6	-0.9
16	9.3	113.2	-0.7
17	5.4	104.8	-1.1
18	6.7	104.8	-0.8
19	7.0	103.9	-0.8
20	6.0	114.8	-0.8
21	8.5	117.0	-0.9
22	7.0	123.4	-0.7
23	3.5	121.0	-0.6
24	3.0	92.3	-0.8
1	8.7	351.6	-0.8
2	8.9	348.6	-0.7
3	8.6	348.7	-0.7
4	8.1	341.8	-0.3
5	8.7	338.0	-0.7
6	8.7	339.2	-0.8
7	8.1	338.6	-0.6
8	7.3	347.8	-0.7
9	6.7	347.8	-0.8
10	6.8	345.3	-0.8
11	7.0	343.8	-0.7

12	7.0	342.9	-1.0
13	8.5	344.9	-1.2
14	8.7	344.8	-1.2
15	9.6	345.6	-1.3
16	9.0	343.4	-1.0
17	11.1	345.3	-1.1
18	10.1	344.7	-0.7
19	9.5	340.9	-0.7
20	9.6	340.7	-0.7
21	9.3	330.8	-0.6

STOP TIME    MAR 28, 1984    HOUR 20 MINUTE 55

RELEASE NUMBER 84029

CONTAINMENT PURGE

STARTING TIME APR 1, 1984 HOUR 20 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
20	4.9	180.3	-0.7
21	6.2	171.7	-0.8
22	7.3	158.2	-0.8
23	5.4	148.9	-0.8
24	5.2	145.3	-0.8
1	5.8	138.9	-0.7
2	7.1	126.6	-0.9
3	6.6	111.7	-0.8
4	5.2	97.5	-0.4
5	4.9	97.2	-0.8
6	8.2	101.3	-0.6
7	9.8	106.5	-1.0
8	10.1	99.1	-1.1
9	10.2	90.6	-0.6
10	9.9	89.4	-0.9
11	9.4	95.4	-0.9
12	12.3	100.6	-0.9
13	12.4	99.4	-0.8
14	11.2	94.2	-0.9
15	11.3	92.4	-0.9
16	11.2	89.8	-0.7
17	13.9	83.5	-0.6
18	15.2	88.9	-0.4
19	13.8	98.2	-0.3
20	13.8	99.1	-0.7
21	13.9	95.7	-0.7
22	13.7	91.0	-0.7
23	13.6	95.1	-0.7
24	13.7	101.8	-0.8
1	13.6	104.9	-0.7
2	13.2	106.4	-0.7
3	9.8	96.0	-0.9
4	8.4	91.0	-0.8
5	8.8	79.5	-1.1
6	10.4	83.2	-0.8
7	10.9	89.7	-0.9
8	11.1	85.9	-0.9
9	10.6	92.5	-0.8
10	9.9	86.0	-0.8
11	9.1	76.8	-1.1
12	8.8	65.7	-1.1
13	9.1	48.7	-1.0
14	9.5	41.7	-1.3
15	10.1	42.8	-1.3
16	10.6	48.4	-1.0
17	9.9	45.1	-0.9
18	10.3	41.8	-1.1
19	11.0	47.3	-0.9
20	10.0	45.0	-0.8

IV-79

21	11.2	37.6	-1.0
22	9.6	29.7	-0.8
23	9.1	22.3	-0.9
24	8.0	5.0	-0.8
1	7.0	0.8	-1.1
2	6.9	2.6	-1.0
3	6.7	354.9	-0.9
4	5.1	349.0	-1.0
5	7.9	329.6	-0.8
6	8.5	329.4	-0.8
7	7.6	327.9	-0.6
8	7.1	331.4	-0.9
9	6.8	334.9	-1.2
10	8.3	338.3	-1.4
11	8.6	346.5	-1.6
12	9.8	353.4	-1.7
13	10.6	348.1	-1.6
14	11.1	343.0	-1.7
15	11.3	341.0	-1.7
16	10.2	347.5	-1.6
17	8.9	352.1	-1.5
18	8.5	346.7	-1.2
19	7.3	339.6	-0.6
20	5.3	334.1	0.1
21	4.7	316.4	1.2
22	3.9	302.0	2.0
23	3.5	293.3	2.6
24	3.7	298.6	2.1
1	3.2	302.0	2.5
2	4.5	301.6	2.6
3	4.4	304.1	2.8
4	3.4	310.6	1.8
5	2.6	304.2	1.0
6	2.6	308.3	2.0
7	2.1	313.0	1.7
8	3.3	312.2	0.1
9	5.6	321.3	-0.7
10	5.3	342.6	-1.4
11	6.4	340.3	-1.6
12	8.3	341.7	-1.8
13	8.4	341.5	-1.8
14	8.2	335.8	-1.8
15	7.5	343.8	-1.8
16	7.5	355.9	-1.8
17	6.3	350.3	-1.6
18	5.1	356.8	-1.3
19	3.7	16.1	-0.6
20	1.9	307.2	0.7
21	1.7	272.6	1.5
22	2.3	273.7	1.2
23	1.4	280.5	2.0
24	1.2	287.6	3.0
1	1.4	265.9	3.4
2	1.2	280.1	5.0
3	1.2	69.5	6.9



4	1.2	359.5	7.0
5	1.2	303.0	7.1
6	1.7	107.7	5.7
7	3.4	334.0	5.6
8	1.8	136.9	3.3
9	4.0	123.8	-0.4
10	9.2	128.1	-1.2
11	9.4	139.1	-1.5
12	10.2	136.0	-1.6
13	10.2	129.7	-1.6
14	11.0	133.3	-1.6
15	10.2	127.8	-1.6
16	12.2	131.2	-1.5
17	12.8	129.7	-1.5
18	13.7	131.5	-1.1
19	9.0	134.3	-0.0
20	7.0	142.6	0.1
21	7.2	126.6	0.5
22	6.7	130.0	0.6
23	7.2	126.6	0.6
24	7.7	126.9	0.8
1	7.6	129.4	0.5
2	7.3	127.7	0.6
3	10.4	131.4	0.2
4	11.6	128.7	-0.3
5	10.0	118.4	-0.5
6	9.9	104.5	-0.7
7	13.2	112.3	-0.4
8	16.7	120.9	0.2
9	13.1	115.6	-0.4
10	10.5	111.5	-1.0
11	9.2	125.8	-0.5
12	16.0	125.7	-1.2
13	14.0	114.8	-0.7
14	13.7	117.3	-0.9
15	13.3	123.9	-0.8
16	13.1	118.4	-0.8
17	14.4	131.5	-0.7
18	16.8	140.1	-0.9
19	18.2	136.9	-1.1
20	17.4	137.2	-0.7
21	17.6	137.5	-0.8
22	16.7	138.4	-0.8
23	14.6	133.5	-0.7
24	11.8	135.1	-0.8
1	9.7	128.9	-0.7
2	8.1	122.1	-0.9
3	7.6	114.4	-1.1
4	7.8	109.9	-0.7
5	8.3	102.2	-0.8

STOP TIME    APR    8, 1984    HOUR   4 MINUTE 18

RELEASE NUMBER 84030

CONTAINMENT PURGE

STARTING TIME APR 9, 1984 HOUR 0 MINUTE 22

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
1	6.1	91.4	-1.0
2	6.8	92.3	-0.8
3	5.3	99.6	-0.9
4	3.7	71.4	-0.9
5	3.4	62.1	-0.9
6	4.0	64.9	-1.0
7	3.8	71.5	-0.9
8	4.3	82.5	-0.8
9	4.6	87.4	-0.9
10	6.0	99.5	-1.2
11	7.0	105.1	-1.4
12	8.0	112.3	-1.2
13	7.9	110.2	-1.1
14	6.3	111.1	-1.2
15	6.3	105.4	-1.1
16	6.3	103.5	-1.1
17	7.4	94.6	-0.9
18	6.6	92.7	-1.1
19	6.8	92.6	-1.0
20	6.1	89.9	-0.9
21	7.5	99.0	-0.8
22	7.3	105.6	-1.0
23	8.5	112.0	-1.5

STOP TIME APR 9, 1984 HOUR 22 MINUTE 44

STARTING TIME APR 9, 1984 HOUR 23 MINUTE 3

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
23	8.5	112.0	-1.5
24	6.8	119.1	-1.0
1	7.7	117.6	-0.9

STOP TIME APR 10, 1984 HOUR 0 MINUTE 0

IV-82

RELEASE NUMBER 84030

CONTAINMENT PURGE

STARTING TIME APR 10, 1984 HOUR 6 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
6	2.6	93.7	-0.7
7	3.8	108.1	-0.9
8	4.6	106.8	-0.6
9	5.8	103.7	-0.7
10	4.9	103.7	-0.8
11	6.0	111.2	-1.1
12	7.1	102.3	-1.4
13	8.0	148.4	-1.5
14	7.6	137.9	-1.2
15	8.3	137.0	-1.2
16	7.2	131.9	-1.2
17	8.3	135.5	-1.1
18	8.2	129.8	-0.9
19	9.1	125.6	-0.8
20	8.1	137.0	-0.8
21	4.5	132.3	-0.5
22	5.7	126.4	-0.4
23	6.1	134.8	-0.4
24	7.3	144.1	-0.6
1	11.1	152.1	-0.8
2	11.4	146.9	-0.5
3	14.3	155.3	-0.7

STOP TIME APR 11, 1984 HOUR 2 MINUTE 20

IV-83

RELEASE NUMBER 84031

CONTAINMENT PURGE

STARTING TIME APR 11, 1984 HOUR 21 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
21	16.9	166.4	-0.8
22	7.2	205.0	-0.7
23	8.8	215.4	-0.3
24	10.3	207.6	0.5
1	11.7	202.9	1.0
2	12.4	218.2	-0.0
3	7.6	251.3	-0.4
4	4.5	301.0	-0.5
5	7.3	257.8	-0.7
6	9.4	259.4	-0.2
7	8.4	265.9	-0.6
8	10.6	255.1	-0.8
9	11.5	255.2	-0.8
10	11.4	262.5	-1.0
11	11.8	256.4	-0.9
12	12.5	263.7	-0.9
13	14.6	275.4	-1.1
14	16.7	263.8	-0.8
15	13.5	271.0	-0.9
16	15.2	277.3	-0.8
17	16.5	281.4	-1.1
18	15.4	280.1	-1.0
19	18.0	281.2	-0.8
20	18.0	286.0	-0.6
21	18.7	293.7	-0.9
22	17.0	292.8	-1.1
23	16.4	294.4	-0.7
24	13.3	289.5	-0.6
1	11.5	290.5	-0.9
2	11.7	295.6	-0.8
3	12.5	291.8	-1.1
4	11.8	295.5	-0.9
5	11.2	293.6	-0.9
6	11.3	291.2	-1.0
7	11.1	301.2	-0.8
8	12.0	300.8	-0.9
9	10.9	295.1	-1.1
10	10.0	299.1	-1.0
11	11.4	303.1	-1.1
12	10.1	296.1	-1.1
13	11.1	301.6	-1.1
14	13.2	305.3	-1.0
15	13.2	303.3	-1.0
16	14.2	302.9	-1.0
17	13.6	306.2	-0.9
18	13.6	307.2	-0.8
19	13.9	309.4	-1.0
20	12.4	309.5	-0.6
21	12.1	311.1	-1.0

IV-84

22	12.2	311.7	-1.1
23	12.1	314.8	-0.7
24	12.0	310.6	-0.7
1	10.5	313.1	-0.9
2	10.8	313.3	-0.8
3	11.1	316.8	-0.7

STOP TIME    APR 14, 1984    HOUR 2 MINUTE 30

STARTING TIME    APR 14, 1984    HOUR 7 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
7	11.1	335.3	-0.9
8	10.7	338.8	-0.8
9	9.6	335.9	-0.8
10	10.2	341.5	-1.1
11	11.0	342.6	-1.2
12	11.4	344.8	-1.1
13	11.4	350.5	-1.0
14	11.4	349.3	-1.0
15	10.9	352.5	-0.8
16	10.3	356.7	-1.0
17	10.6	350.0	-1.0
18	8.5	354.5	-0.9
19	9.8	353.9	-0.9
20	8.8	353.8	-0.8
21	7.8	346.4	-0.6
22	7.1	359.1	-0.8
23	7.3	346.7	-0.7
24	7.0	341.9	-0.8
1	6.9	337.6	-0.5
2	6.4	327.1	-0.2
3	7.9	331.3	-0.4
4	7.4	339.3	-0.7
5	6.4	332.8	-0.6

STOP TIME    APR 15, 1984    HOUR 4 MINUTE 5

IV-85

RELEASE NUMBER 84031

CONTAINMENT PURGE

STARTING TIME APR 15, 1984 HOUR 4 MINUTE 49

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
4	7.4	339.3	-0.7
5	6.4	332.8	-0.6
6	7.9	327.0	-0.0
7	8.1	329.4	-0.3
8	9.2	349.1	-1.0
9	8.5	349.1	-1.2
10	9.1	350.6	-1.3

STOP TIME APR 15, 1984 HOUR 9 MINUTE 50

STARTING TIME APR 15, 1984 HOUR 12 MINUTE 53

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
12	11.3	348.1	-1.6
13	12.3	335.3	-1.4
14	14.6	336.4	-1.7
15	12.6	345.1	-1.6
16	12.6	347.2	-1.3
17	13.4	350.5	-1.2
18	11.6	345.7	-1.2
19	10.8	350.2	-0.7
20	8.0	344.7	-0.6
21	7.4	333.5	-0.3
22	6.8	324.9	-0.1
23	8.1	324.7	-0.0
24	8.4	326.3	-0.3
1	8.1	330.3	-0.6
2	7.6	325.4	-0.4
3	8.5	326.3	-0.3
4	8.7	323.1	-0.2
5	8.8	320.2	0.3
6	7.9	320.2	0.3
7	8.0	313.2	-0.6
8	9.1	326.0	-1.2
9	10.9	331.0	-1.5
10	11.2	334.4	-1.7
11	11.4	343.7	-1.7
12	12.9	349.1	-1.9
13	12.8	347.9	-1.8
14	13.4	355.3	-2.0
15	13.7	352.3	-1.8
16	12.4	349.0	-1.6
17	12.5	358.7	-1.6

STOP TIME APR 16, 1984 HOUR 16 MINUTE 42

98-11



RELEASE NUMBER 84031      CONTAINMENT PURGE

STARTING TIME      APR 17, 1984      HOUR 6 MINUTE 30

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
6	2.4	316.6	2.0
7	3.1	1.6	0.4
8	3.1	346.3	-0.4
9	6.7	61.5	-1.6
10	9.2	60.2	-1.8

STOP TIME      APR 17, 1984      HOUR 9 MINUTE 30

STARTING TIME      APR 17, 1984      HOUR 11 MINUTE 13

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
11	8.6	42.9	-1.8
12	9.3	24.8	-1.9
13	8.0	3.6	-1.9
14	7.6	0.8	-1.7
15	8.5	347.9	-1.9

STOP TIME      APR 17, 1984      HOUR 14 MINUTE 26

RELEASE NUMBER 84031      CONTAINMENT PURGE

STARTING TIME      APR 18, 1984      HOUR 12 MINUTE 20

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
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12	9.3	349.4	-1.7
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STOP TIME      APR 18, 1984      HOUR 10 MINUTE 53

RELEASE NUMBER 84033

CONTAINMENT PURGE

STARTING TIME MAY 12, 1984 HOUR 14 MINUTE 55

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
14	8.0	175.8	-0.9
15	11.0	171.8	-1.4
16	11.8	167.6	-1.3
17	11.7	166.1	-1.1
18	11.2	162.7	-1.0
19	9.8	166.4	-0.8
20	8.4	160.0	-0.3
21	8.0	151.3	0.3
22	6.4	140.5	1.1
23	6.4	115.8	0.3
24	7.4	143.1	0.6
1	5.0	163.3	0.5
2	4.1	181.4	1.5
3	3.1	27.4	1.3
4	5.7	330.7	0.8
5	3.9	327.8	1.2
6	3.3	291.9	1.1
7	3.6	317.9	0.6
8	5.1	325.4	-0.7
9	7.8	340.6	-1.4
10	9.7	345.2	-1.6
11	9.5	347.4	-1.7
12	9.2	356.9	-1.9
13	10.3	346.7	-2.0
14	11.0	344.1	-1.9
15	10.4	346.7	-2.1
16	10.1	351.6	-1.7
17	9.0	349.2	-1.7
18	9.2	346.6	-1.4
19	6.3	343.1	-1.0
20	3.7	322.3	0.4
21	3.6	316.9	1.5
22	4.0	314.6	0.9
23	2.2	308.7	0.8
24	2.4	334.9	0.2
1	3.0	320.3	1.1
2	3.4	306.3	1.6
3	2.7	291.5	1.4
4	1.7	297.0	1.7
5	2.3	265.8	1.1
6	1.7	275.8	1.6
7	2.2	341.5	-0.1
8	3.6	63.3	-1.6
9	6.0	98.6	-1.6
10	5.6	111.9	-1.6
11	5.7	126.7	-1.6
12	6.9	115.2	-1.7
13	6.2	123.4	-1.7

STOP TIME MAY 14, 1984 HOUR 12 MINUTE 15

IV-88

STARTING TIME MAY 14, 1984 HOUR 21 MINUTE 11

WS10  
MPH

WD10  
DEG

TIME  
HOUR

21	4.7	148.7	0.4
22	4.7	148.5	0.8
23	5.4	143.2	0.8
24	5.8	149.1	0.3
1	6.6	148.5	0.3
2	6.3	135.2	0.7
3	6.2	138.4	0.2
4	4.6	145.1	0.5
5	5.0	150.1	0.3
6	5.6	142.3	0.1
7	7.4	141.0	-1.1
8	10.6	142.4	-1.2
9	10.1	137.0	-1.3
10	8.6	149.7	-0.9
11	10.1	140.0	-0.5

STOP TIME MAY 15, 1984 HOUR 10 MINUTE 40

RELEASE NUMBER 84033

CONTAINMENT PURGE

STARTING TIME MAY 15, 1984 HOUR 15 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
15	17.8	141.2	-1.5
16	18.9	144.6	-1.5
17	16.4	150.7	-1.3
18	15.8	148.7	-1.1
19	13.6	148.6	-1.1
20	12.7	144.7	-0.7
21	12.1	139.9	-0.6

STOP TIME MAY 15, 1984 HOUR 20 MINUTE 22

STARTING TIME MAY 15, 1984 HOUR 21 MINUTE 27

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
21	12.1	139.9	-0.6
22	10.5	140.9	-0.5
23	8.5	137.5	-0.2
24	10.1	148.6	-0.2
1	10.7	151.5	-0.3
2	12.5	157.5	-1.1
3	11.4	157.1	-0.4
4	13.1	158.1	-0.7
5	13.0	152.7	-1.3
6	10.0	157.4	-0.7
7	8.3	148.6	-0.3

STOP TIME MAY 16, 1984 HOUR 6 MINUTE 10

RELEASE NUMBER B4001		DECAY TANK PURGE	
STARTING TIME		JAN 24, 1984 HOUR 15 MINUTE 8	
TIME	WS10	WD10	DT100
15	MPH	DEG	DEG C
16	5.2	278.2	-0.6
	6.4	287.7	-0.3
STOP TIME		JAN 24, 1984 HOUR 15 MINUTE 30	

STARTING TIME		JAN 25, 1984 HOUR 11 MINUTE 5	
TIME	WS10	WD10	DT100
11	MPH	DEG	DEG C
12	0.8	223.6	2.5
13	0.8	221.9	1.3
14	0.8	218.9	-0.2
15	0.8	227.6	-0.6
16	2.6	234.3	-0.6
17	5.7	242.3	-1.0
18	5.2	224.1	-0.4
19	5.5	183.9	-0.6
	5.8	176.6	-0.1
STOP TIME		JAN 25, 1984 HOUR 18 MINUTE 8	



RELEASE NUMBER 84002      DECAY TANK PURGE

STARTING TIME      FEB    7, 1984      HOUR 14 MINUTE 18

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
14	5.2	126.8	-1.1
15	7.2	129.7	-1.0
16	6.8	126.9	-0.9
17	8.9	113.4	-0.8

STOP TIME      FEB    7, 1984      HOUR 16 MINUTE 34

RELEASE NUMBER 84003		DECAY TANK PURGE	
STARTING TIME		MAR 14, 1984 HOUR 3 MINUTE 2	
TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
3	8.7	155.3	-0.4
4	9.1	129.7	-0.5
5	9.6	136.1	-0.6
6	10.2	156.9	-0.2
7	9.3	160.0	-0.7
8	12.7	150.9	-0.9
9	14.9	156.0	-1.0
10	14.2	162.1	-0.6
STOP TIME		MAR 14, 1984 HOUR 9 MINUTE 45	

RELEASE NUMBER 84004		DECAY TANK PURGE	
STARTING TIME		APR 8, 1984	HOUR 5 MINUTE 43
TIME	WSIO	WSIO	DT100
HOUR	MPH	DEG	DEG C
5	8.3	102.2	-0.8
6	7.8	99.0	-1.0
7	7.8	93.4	-1.0
8	9.1	93.3	-1.0
9	10.7	96.9	-1.0
10	10.8	98.9	-0.7
11	10.2	100.8	-0.9
12	9.7	99.8	-1.0
13	6.8	86.9	-0.8
STOP TIME		APR 8, 1984	HOUR 12 MINUTE 33

RELEASE NUMBER 84005		DECAY TANK PURGE	
STARTING TIME		APR 8, 1984	HOUR 13 MINUTE 33
TIME	WS10	WD10	DT100
HOUR	MPH	DEG	DEG C
13	6.8	86.9	-0.8
14	7.1	83.3	-1.3
15	6.6	82.0	-0.8
16	5.7	79.4	-0.9
17	5.5	81.0	-0.8
18	5.3	72.3	-1.1
19	4.6	55.3	-0.7
20	5.0	69.8	-0.7
STOP TIME		APR 8, 1984	HOUR 19 MINUTE 50

RELEASE NUMBER 84006		DECAY TANK PURGE	
STARTING TIME		MAY 7, 1984 HOUR 13 MINUTE 8	
TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
13	13.5	334.5	-1.1
14	13.6	335.3	-1.3
15	11.7	339.8	-1.3
16	11.9	340.9	-1.2
17	12.2	338.3	-1.1
18	12.9	337.9	-1.2
19	11.4	340.1	-1.1
20	10.0	337.8	-0.8
STOP TIME		MAY 7, 1984 HOUR 19 MINUTE 29	

RELEASE NUMBER 84007

DECAY TANK PURGE

STARTING TIME MAY 14, 1984 HOUR 12 MINUTE 23

TIME HOUR	WS10 MPH	WD10 DCG	DT100 DEG C
12	6.9	115.2	-1.7
13	6.2	123.4	-1.7
14	6.7	124.0	-1.7
15	6.3	126.2	-1.7
16	6.6	118.9	-1.8
17	6.6	115.0	-1.6
18	7.3	124.1	-1.3
19	6.4	117.7	-1.0

STOP TIME MAY 14, 1984 HOUR 18 MINUTE 55



RELEASE NUMBER 84008		DECAY TANK PURGE	
STARTING TIME	MAY 17, 1984	HOUR 0	MINUTE 20
TIME	WS10	WD10	DT100
HOUR	MPH	DEG	DEG C
1	-99.0	-99.0	-99.0
2	-99.0	-99.0	-99.0
3	-99.0	-99.0	-99.0
4	-99.0	-99.0	-99.0
5	-99.0	-99.0	-99.0
6	-99.0	-99.0	-99.0
7	-99.0	-99.0	-99.0
8	-99.0	-99.0	-99.0
STOP TIME	MAY 17, 1984	HOUR 7	MINUTE 50

RELEASE NUMBER 64009		DELAY TANK PURGE	
STARTING TIME		MAY 17, 1984 HOUR 18 MINUTE 8	
TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	-99.0	-99.0	-99.0
19	-99.0	-99.0	-99.0
20	-99.0	-99.0	-99.0
21	-99.0	-99.0	-99.0
22	-99.0	-99.0	-99.0
23	-99.0	-99.0	-99.0
24	-99.0	-99.0	-99.0
1	5.1	270.3	0.1
2	7.4	240.7	-0.6
STOP TIME		MAY 18, 1984 HOUR 1 MINUTE 10	

RELEASE NUMBER 84010 DECAY TANK PURGE  
 STARTING TIME MAY 21, 1984 HOUR 18 MINUTE 18

TIME HOUR	WS10 MPH	WD10 DEG	DT100 DEG C
18	8.1	235.7	-1.4
19	6.2	219.2	-1.3
20	6.6	197.0	-0.7
21	6.3	185.2	0.2
22	4.6	192.5	1.1
23	6.1	341.6	-0.8
24	-99.0	-99.0	-99.0
1	7.3	13.0	-0.6
2	4.7	24.3	-0.8
3	3.8	22.5	-0.8

STOP TIME MAY 22, 1984 HOUR 2 MINUTE 17

SECTION V

ENVIRONMENTAL MONITORING  
TECHNICAL SPECIFICATION 5.9.4.b

January 1, 1984 to June 30, 1984

#### 5.9.4 Continued

##### b. Environmental Monitoring

1.
  - (a) The number of sample locations, sample collection and frequency and the number of samples collected this
  - (b) six-month period for each class of sample is delineated in Table 1.
  - (c) Levels of radiation were not found to be significantly above local background at any of the sampling locations.
  - (d) A complete summary of the program findings is presented in Table 2. For each type of analysis of each sampled medium, this table considers separately all indicator locations, all control locations, and the location with the highest six-month mean result. For each of these classes, the table specifies the following:
    - (1) the total number of analyses;
    - (2) the fraction of these yielding detectable results (i.e., results above the highest lower limit of detection for the period);
    - (3) the average, lowest, and highest results.

In addition, the distance and direction relative to the Reactor Containment Building are specified for the location with the highest six-month mean.

2. None of the levels of radioactivity found in the environmental radiological monitoring program indicate the likelihood of public intakes in excess of one per cent of those that would result from continuous exposure to the concentration values listed in Table II of Appendix B of 10 CFR 20.
3. No statistically significant variations at off-site environmental concentrations during the reporting period were observed.

Table 1. Sample collection program.

Sample Class	Collection Frequency	Sample Locations	Number of Samples Collected This Period
Background Radiation (TLD)	Quarterly	Eleven (11) Four (4) <sup>a</sup>	22 8
Background Radiation (G-M Survey)	Quarterly	Fifteen (15)	30
Air Particulate	Weekly	Five (5)	134
Airborne Iodine	Weekly	Five (5)	134
Well Water	Monthly Quarterly Comp.	Four (5) Four (5)	27 9
Precipitation	Monthly or Quarterly	One (1) One (1)	3 1
Milk	Weekly and Quarterly	Four (4) Four (4)	52 8
Vegetation	Annually	Six (6)	0
Cattlefeed	Quarterly	Six (6)	12
Soil	Annually	Four (4)	0
Surface Water	Weekly Monthly Comp.	Five (5) Five (5)	130 30
Fish (six species)	Annually	One (1)	0
Mud and Silt	Annually	Three (3)	0
Wildlife	Annually	One (1)	0
TOTAL:			600

<sup>a</sup> Additional sampling locations not required by the technical specifications.



Table 2. Environmental Radiological Monitoring Program Summary.

Name of facility Fort Calhoun Nuclear Power Station - Unit 1Docket No. 50-285Location of Facility Washington, Nebraska  
(County, state)Reporting period January - June, 1984

Sample Type (Units)	Type and Number of Analyses <sup>a</sup>	LLD <sup>b</sup>	Indicator Locations Mean(F) <sup>c</sup> Range <sup>c</sup>	Location with Highest Annual Mean		Control Locations Mean(F) <sup>c</sup> Range	Number of Non-routine Results <sup>e</sup>
				Location <sup>d</sup>	Mean(F) Range		
Background Radiation (TLD) (mR/week)	Gamma 22 <sup>f</sup>	0.5	1.2 (20/20) (0.8-1.6)	0-4, Electric Bldg., Omaha 22 mi @ 152*	1.8 (2/2) (1.6-2.0)	1.8 (2/2) (1.6-2.0)	0
Background Radiation G-M Survey (mrem/hr)	Beta-Gamma 30	0.059	<LLD	--	--	<LLD	0
Airborne Particulates (pCi/m <sup>3</sup> )	GB 134	0.02	0.022 (107/107) (0.008-0.042)	0-3, City Hall, 4.8 mi @ 149*	0.023 (27/27) (0.012-0.042)	0.022 (25/27) (0.012-0.035)	0
	GS 30						
	Cs-134	0.01	<LLD	--	--	<LLD	0
	Cs-137	0.01	<LLD	--	--	<LLD	0
	Other gammas	0.01	<LLD	--	--	<LLD	0
Airborne Iodine (pCi/m <sup>3</sup> )	I-131 134	0.2	<LLD	--	--	<LLD	0
Precipitation	GB 4	0.5	1.9 (4/4) (0.4-5.2)	0-30, AgriCo Plant, 1.8 mi @ 325*	1.9 (4/4) (0.4-5.2)	None	0
Well Water (pCi/l)	GB 9	0.5	8.0 (9/9) (2.3-19.1)	0-16, Smith Farm 1.9 mi @ 133*	18.0 (2/2) (16.8-19.1)	None	0
	H-3 9	200	380 (2/2) (310-440)	0-16, Smith Farm 1.9 mi @ 133*	380 (2/2) (310-440)	None	0

Table 2. (continued)

Name of facility Fort Calhoun Nuclear Power Station - Unit 1

Sample Type (Units)	Type and Number of Analyses <sup>a</sup>	LLD <sup>b</sup>	Indicator Locations Mean(F) <sup>c</sup> Range <sup>c</sup>	Location with Highest Annual Mean		Control Locations Mean(F) Range	Number of Non-routine Results <sup>e</sup>
				Location <sup>d</sup>	Mean(F) Range		
Milk, Fresh (pCi/l)	I-131 52	0.5	0.8 (1/26)	0-42 Miller Farm	0.8 (1/13)	<LLD	0
	GS 8		--	0.8 mi @ 206*	--		
	K-40	150	1260 (4/4) (920-1460)	0-27, Flynn Dairy	1360 (2/2) (1340-1380)	1120 (4/4) (810-1270)	0
	Cs-134	2	<LLD	--	--	<LLD	0
	Cs-137	2	<LLD	--	--	<LLD	0
	Other gammas	2	<LLD	--	--	<LLD	0
Milk, Preserved (pCi/l)	GB 8	6	1090 (4/4) (940-1180)	0-26, Japp Dairy,	1370 (2/2) (1120-1620)	1240 (4/4) (1040-1620)	0
	Sr-90 8	1	<LLD	--	--	<LLD	0
Surface Water (pCi/l)	GB 30	0.5	8.1 (24/24) (5.3-19.7)	0-6, Downstream	10.0 (6/6) (6.1-19.7)	8.7 (6/6) (5.9-10.9)	0
	H-3 30	200	790 (2/24) (220-1370)	0-6, Downstream	1370 (1/6) --	<LLD	0
Cattlefeed (pCi/g wet)	Sr-90 12	0.03	0.05 (1/8)	0-31, Rogge Farm	0.05 (1/2)	<LLD	0
	GS 12	--	--	2.1 mi @ 278*	--		
	Cs-134	0.2	<LLD	--	--	<LLD	0
	Cs-137	0.2	<LLD	--	--	<LLD	0
	Other gammas	0.2	<LLD	--	--	<LLD	0

<sup>a</sup> GB = gross beta; GS = gamma scan.<sup>b</sup> LLD = lower limit of detection (based on 3 sigma error for background sample unless otherwise indicated).<sup>c</sup> Mean and range are based on detectable measurements only (i.e., >LLD). Fraction of detectable measurements at specified locations is indicated in parentheses (F).<sup>d</sup> Locations are specified: (1) by code, (2) by name, and (3) by distance and direction relative to Reactor Containment Building.<sup>e</sup> Non-routine results are those which exceed ten times the control station value. If no control station value is available, the result is considered non-routine if it exceeds ten times the typical pre-operational value for the medium or location.<sup>f</sup> Results for sites not required by the technical specifications are excluded from this summary.<sup>g</sup> The LLD specified for G-M survey results is three times the average value of the standard deviations obtained in a series of repeated measurements.

SECTION VI

POTENTIAL DOSES TO INDIVIDUALS AND POPULATIONS .

(As Required by Regulatory Guide 1.21, Safety Guide 23)

January 1, 1984 to June 30, 1984

## VI. POTENTIAL DOSES TO INDIVIDUALS AND POPULATIONS

### A. Potential Semiannual Doses to Individuals from Gaseous Releases.

Total body, skin and organ doses from ground releases were calculated in millirem (mrem) to an average adult, teenager, child and infant using the annual configuration of GASPAR program. Results to each receptor are shown in Tables VI-A-1 through VI-A-36. 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 1984 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/m<sup>3</sup> for the air water concentration.

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

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

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

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

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



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

B. Potential Semiannual Doses to Population from Gaseous Releases.

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

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

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

C. Potential Semiannual Doses to Individuals from Liquid Releases.

Total body, skin and organ mrem doses for liquid releases were calculated for all significant liquid pathways using the annual configuration of the LADTAP program. Results are shown in Tables VI-C-1 through VI-C-10.



The inputs to LADTAP for the semiannual period from January through June 1984 were as follows:

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

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

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

(4) A drinking water transport time of 6.6 hours to the Omaha intake and 7.0 hours to the Council Bluffs intake for the ALARA doses in Tables VI-C-1 through VI-C-6 was used. For Tables VI-C-7 through VI-C-10, a transport time of 0.0 was used from the plant to the discharge from the site.

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

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

The discharge site in Tables VI-C-7 through VI-C-10 was chosen to present a most conservative estimate of mrem dose for an average adult, teenager, child and infant. A conservative approach is also presented by the assumption that Omaha and Council Bluffs receive all drinking water from the Missouri River.

D. Potential Semiannual Doses to Population from Liquid Releases.

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

(1) Dilution factors and transport times for the pathways of sportfish, commercial fish, recreation and biota were calculated based on a distance of two miles downstream as approximately the distance to the nearest recreational facility - Desoto National Wildlife Refuge.

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

E. Direct Radiation Doses to Individuals and Population.

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

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

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 1 BEEF  
 AT 1.86 MILES N

SEMI-ANNUAL BETA AIR DOSE = 6.05E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.98E-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	1.22E-03	3.54E-03
MEAT								
ADULT	2.99E-05	2.69E-05	4.39E-06	3.23E-05	3.29E-05	1.24E-03	2.60E-05	2.56E-05
TEEN	1.79E-05	1.61E-05	3.62E-06	2.06E-05	2.12E-05	8.93E-04	1.56E-05	1.53E-05
CHILD	2.13E-05	1.39E-05	6.66E-06	2.55E-05	2.60E-05	1.34E-03	1.88E-05	1.85E-05

TABLE VI-A-1

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 2 BEEF, RES  
 AT 1.86 MILES NNE

SEMI-ANNUAL BETA AIR DOSE = 6.83E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 2.23E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.38E-03	3.99E-03
GROUND	2.40E-05	2.40E-05	2.40E-05	2.40E-05	2.40E-05	2.40E-05	2.40E-05	2.82E-05
MEAT								
ADULT	3.24E-05	3.00E-05	3.46E-06	3.42E-05	3.48E-05	9.84E-04	2.92E-05	2.90E-05
TEEN	1.93E-05	1.79E-05	2.86E-06	2.15E-05	2.20E-05	7.09E-04	1.75E-05	1.73E-05
CHILD	2.31E-05	2.12E-05	5.25E-06	2.64E-05	2.68E-05	1.07E-03	2.12E-05	2.09E-05
INHAL								
ADULT	1.15E-04	1.13E-04	3.75E-06	1.17E-04	1.21E-04	1.64E-03	1.13E-04	1.12E-04
TEEN	1.16E-04	1.14E-04	5.27E-06	1.20E-04	1.25E-04	2.00E-03	1.14E-04	1.12E-04
CHILD	1.03E-04	1.00E-04	7.14E-06	1.07E-04	1.11E-04	2.23E-03	1.01E-04	9.94E-05
INFANT	5.98E-05	5.75E-05	5.56E-06	6.39E-05	6.46E-05	2.01E-03	5.86E-05	5.72E-05

TABLE VI-A-2

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 3 RES  
 AT 1.47 MILES NE

SEMI-ANNUAL BETA AIR DOSE = 1.29E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 4.21E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.60E-03	7.53E-03
GROUND	3.06E-05	3.06E-05	3.06E-05	3.06E-05	3.06E-05	3.06E-05	3.06E-05	3.59E-05
INHAL								
ADULT	2.16E-04	2.13E-04	7.13E-06	2.21E-04	2.27E-04	3.12E-03	2.13E-04	2.11E-04
TEEN	2.19E-04	2.15E-04	1.00E-05	2.26E-04	2.35E-04	3.81E-03	2.15E-04	2.12E-04
CHILD	1.94E-04	1.89E-04	1.36E-05	2.01E-04	2.09E-04	4.24E-03	1.90E-04	1.87E-04
INFANT	1.13E-04	1.08E-04	1.06E-05	1.20E-04	1.22E-04	3.82E-03	1.10E-04	1.08E-04

TABLE VI-A-3



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 4 VEG, RES  
 AT 4.76 MILES ENE

SEMI-ANNUAL BETA AIR DOSE = 1.01E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 3.26E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.91E-04	1.91E-04	1.91E-04	1.91E-04	1.91E-04	1.91E-04	2.01E-04	5.86E-04
GROUND	2.34E-06	2.34E-06	2.34E-06	2.34E-06	2.34E-06	2.34E-06	2.34E-06	2.74E-06
VEGET								
ADULT	3.31E-05	3.09E-05	2.96E-06	3.47E-05	3.49E-05	7.94E-04	3.03E-05	3.01E-05
TEEN	3.70E-05	3.50E-05	3.61E-06	4.00E-05	3.93E-05	6.68E-04	3.49E-05	3.45E-05
CHILD	5.60E-05	5.37E-05	7.65E-06	6.18E-05	5.99E-05	1.01E-03	5.40E-05	5.34E-05
INHAL								
ADULT	1.71E-05	1.69E-05	5.27E-07	1.74E-05	1.79E-05	2.33E-04	1.68E-05	1.67E-05
TEEN	1.73E-05	1.70E-05	7.40E-07	1.78E-05	1.85E-05	2.84E-04	1.70E-05	1.68E-05
CHILD	1.54E-05	1.49E-05	1.00E-06	1.59E-05	1.64E-05	3.16E-04	1.51E-05	1.48E-05
INFANT	8.91E-06	8.57E-06	7.81E-07	9.47E-06	9.59E-06	2.84E-04	8.72E-06	8.53E-06

TABLE VI-A-4



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 5 MILK  
 AT 4.93 MILES ENE

SEMI-ANNUAL BETA AIR DOSE = 9.52E-04 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 3.06E-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	1.89E-04	5.51E-04
COW MILK								
ADULT	1.26E-05	1.06E-05	3.31E-06	1.45E-05	1.63E-05	1.20E-03	9.71E-06	9.56E-06
TEEN	1.69E-05	1.38E-05	5.98E-06	2.12E-05	2.44E-05	1.90E-03	1.27E-05	1.25E-05
CHILD	2.68E-05	2.07E-05	1.44E-05	3.48E-05	3.95E-05	3.75E-03	2.01E-05	1.97E-05
INFANT	4.26E-05	3.09E-05	2.86E-05	6.47E-05	6.41E-05	9.09E-03	3.06E-05	2.99E-05

TABLE VI-A-5

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 6 BEEF  
 AT 4.96 MILES ENE

SEMI-ANNUAL BETA AIR DOSE = 9.43E-04 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 3.03E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.78E-04	1.78E-04	1.78E-04	1.78E-04	1.78E-04	1.78E-04	1.87E-04	5.46E-04
MEAT								
ADULT	4.34E-06	4.12E-06	3.11E-07	4.51E-06	4.55E-06	8.97E-05	4.06E-06	4.03E-06
TEEN	2.59E-06	2.46E-06	2.57E-07	2.79E-06	2.83E-06	6.45E-05	2.43E-06	2.41E-06
CHILD	3.11E-06	2.94E-06	4.72E-07	3.40E-06	3.44E-06	9.66E-05	2.93E-06	2.91E-06

TABLE VI-A-6

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 7 VEG, RES  
 AT 4.66 MILES E

SEMI-ANNUAL BETA AIR DOSE = 1.12E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 3.58E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.09E-04	2.09E-04	2.09E-04	2.09E-04	2.09E-04	2.09E-04	2.20E-04	6.45E-04
GROUND	2.14E-06	2.14E-06	2.14E-06	2.14E-06	2.14E-06	2.14E-06	2.14E-06	2.51E-06
VEGET								
ADULT	3.60E-05	3.40E-05	2.71E-06	3.75E-05	3.77E-05	7.32E-04	3.36E-05	3.33E-05
TEEN	4.05E-05	3.87E-05	3.30E-06	4.33E-05	4.26E-05	6.18E-04	3.86E-05	3.82E-05
CHILD	6.15E-05	5.94E-05	7.01E-06	6.68E-05	6.51E-05	9.37E-04	5.97E-05	5.91E-05
INHAL								
ADULT	1.89E-05	1.87E-05	5.83E-07	1.93E-05	1.98E-05	2.58E-04	1.86E-05	1.85E-05
TEEN	1.92E-05	1.88E-05	8.19E-07	1.98E-05	2.05E-05	3.15E-04	1.89E-05	1.86E-05
CHILD	1.70E-05	1.65E-05	1.11E-06	1.76E-05	1.82E-05	3.50E-04	1.67E-05	1.64E-05
INFANT	9.87E-06	9.49E-06	8.64E-07	1.05E-05	1.06E-05	3.14E-04	9.66E-06	9.45E-06

TABLE VI-A-7

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 8 RES  
 AT 4.24 MILES ESE

SEMI-ANNUAL BETA AIR DOSE = 3.19E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.03E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.01E-04	6.01E-04	6.01E-04	6.01E-04	6.01E-04	6.01E-04	6.33E-04	1.85E-03
GROUND	5.59E-06	5.59E-06	5.59E-06	5.59E-06	5.59E-06	5.59E-06	5.59E-06	6.57E-06
INHAL								
ADULT	5.40E-05	5.33E-05	1.67E-06	5.51E-05	5.66E-05	7.39E-04	5.31E-05	5.26E-05
TEEN	5.46E-05	5.36E-05	2.35E-06	5.63E-05	5.84E-05	9.03E-04	5.38E-05	5.30E-05
CHILD	4.85E-05	4.72E-05	3.19E-06	5.01E-05	5.19E-05	1.00E-03	4.75E-05	4.68E-05
INFANT	2.81E-05	2.71E-05	2.48E-06	2.99E-05	3.03E-05	9.02E-04	2.75E-05	2.69E-05

TABLE VI-A-8

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 9 BEEF  
 AT 5.03 MILES ESE

SEMI-ANNUAL BETA AIR DOSE = 2.34E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 7.49E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.61E-04	1.35E-03
MEAT								
ADULT	1.06E-05	1.02E-05	5.81E-07	1.09E-05	1.10E-05	1.70E-04	1.01E-05	1.00E-05
TEEN	6.31E-06	6.07E-06	4.80E-07	6.68E-06	6.76E-06	1.22E-04	6.01E-06	5.97E-06
CHILD	7.59E-06	7.28E-06	8.82E-07	8.14E-06	8.21E-06	1.82E-04	7.26E-06	7.22E-06

TABLE VI-A-9

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 10 VEG  
 AT 1.53 MILES SE

SEMI-ANNUAL BETA AIR DOSE = 2.09E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 6.77E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.97E-03	3.97E-03	3.97E-03	3.97E-03	3.97E-03	3.97E-03	4.18E-03	1.21E-02
VEGET								
ADULT	7.13E-04	6.39E-04	1.00E-04	7.67E-04	7.74E-04	2.65E-02	6.22E-04	6.13E-04
TEEN	7.88E-04	7.21E-04	1.22E-04	6.90E-04	8.67E-04	2.22E-02	7.17E-04	7.02E-04
CHILD	1.18E-03	1.10E-03	2.59E-04	1.37E-03	1.31E-03	3.3CE-02	1.11E-03	1.09E-03

TABLE VI-A-10



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 11 RES  
 AT 1.65 MILES SE

SEMI-ANNUAL BETA AIR DOSE = 1.78E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 5.83E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.42E-03	3.42E-03	3.42E-03	3.42E-03	3.42E-03	3.42E-03	3.60E-03	1.04E-02
GROUND	6.52E-05	6.52E-05	6.52E-05	6.52E-05	6.52E-05	6.52E-05	6.52E-05	7.66E-05
INHAL								
ADULT	2.98E-04	2.94E-04	9.78E-06	3.04E-04	3.13E-04	4.27E-03	2.93E-04	2.90E-04
TEEN	3.01E-04	2.96E-04	1.37E-05	3.11E-04	3.23E-04	5.23E-03	2.97E-04	2.92E-04
CHILD	2.68E-04	2.60E-04	1.86E-05	2.77E-04	2.88E-04	5.82E-03	2.62E-04	2.58E-04
INFANT	1.55E-04	1.49E-04	1.45E-05	1.66E-04	1.68E-04	5.24E-03	1.52E-04	1.48E-04

TABLE VI-A-11

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 12 PORK  
 AT 3.84 MILES SE

SEMI-ANNUAL BETA AIR DOSE = 3.12E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.01E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.94E-04	5.94E-04	5.94E-04	5.94E-04	5.94E-04	5.94E-04	6.25E-04	1.82E-03
MEAT								
ADULT	1.45E-05	1.36E-05	1.30E-06	1.52E-05	1.54E-05	3.72E-04	1.34E-05	1.33E-05
TEEN	8.68E-06	8.14E-06	1.07E-06	9.50E-06	9.68E-06	2.68E-04	8.01E-06	7.92E-06
CHILD	1.04E-05	9.70E-06	1.97E-06	1.16E-05	1.18E-05	4.02E-04	9.67E-06	9.56E-06

TABLE VI-A-12

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 13 VEG, RES  
 AT 0.89 MILES SSE

SEMI-ANNUAL BETA AIR DOSE = 4.99E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.65E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.70E-03	9.70E-03	9.70E-03	9.70E-03	9.70E-03	9.70E-03	1.02E-02	2.93E-02
GROUND	3.66E-04	3.66E-04	3.66E-04	3.66E-04	3.66E-04	3.66E-04	3.66E-04	4.30E-04
VEGET								
ADULT	1.93E-03	1.59E-03	4.65E-04	2.18E-03	2.22E-03	1.22E-01	1.50E-03	1.47E-03
TEEN	2.08E-03	1.77E-03	5.66E-04	2.55E-03	2.45E-03	1.01E-01	1.75E-03	1.68E-03
CHILD	3.01E-03	2.66E-03	1.20E-03	3.93E-03	3.63E-03	1.54E-01	2.70E-03	2.60E-03
INHAL								
ADULT	8.35E-04	8.23E-04	2.81E-05	8.54E-04	8.79E-04	1.22E-02	8.21E-04	8.13E-04
TEEN	8.46E-04	8.29E-04	3.95E-05	8.74E-04	9.08E-04	1.50E-02	8.32E-04	8.18E-04
CHILD	7.51E-04	7.29E-04	5.35E-05	7.78E-04	8.08E-04	1.67E-02	7.35E-04	7.23E-04
INFANT	4.36E-04	4.18E-04	4.16E-05	4.66E-04	4.72E-04	1.50E-02	4.27E-04	4.16E-04

TABLE VI-A-13

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 14 PORK  
 AT 1.10 MILES SSE

SEMI-ANNUAL BETA AIR DOSE = 4.04E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.33E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.80E-03	7.80E-03	7.80E-03	7.80E-03	7.80E-03	7.80E-03	8.20E-03	2.37E-02
MEAT								
ADULT	2.10E-04	1.82E-04	3.96E-05	2.31E-04	2.37E-04	1.11E-02	1.74E-04	1.71E-04
TEEN	1.25E-04	1.09E-04	3.27E-05	1.50E-04	1.56E-04	8.02E-03	1.05E-04	1.02E-04
CHILD	1.49E-04	1.27E-04	6.01E-05	1.86E-04	1.91E-04	1.21E-02	1.26E-04	1.23E-04

TABLE VI-A-14

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 15 VEG, RES  
 AT 0.78 MILES S

SEMI-ANNUAL BETA AIR DOSE = 4.42E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.45E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.53E-03	8.53E-03	8.53E-03	8.53E-03	8.53E-03	8.53E-03	8.97E-03	2.59E-02
GROUND	2.55E-04	2.55E-04	2.55E-04	2.55E-04	2.55E-04	2.55E-04	2.55E-04	2.99E-04
VEGET								
ADULT	1.62E-03	1.38E-03	3.23E-04	1.80E-03	1.82E-03	8.50E-02	1.33E-03	1.30E-03
TEEN	1.76E-03	1.55E-03	3.94E-04	2.10E-03	2.02E-03	7.09E-02	1.54E-03	1.49E-03
CHILD	2.59E-03	2.34E-03	8.36E-04	3.23E-03	3.02E-03	1.08E-01	2.37E-03	2.31E-03
INHAL								
ADULT	7.40E-04	7.30E-04	2.49E-05	7.57E-04	7.79E-04	1.09E-02	7.28E-04	7.20E-04
TEEN	7.50E-04	7.35E-04	3.50E-05	7.75E-04	8.05E-04	1.33E-02	7.37E-04	7.25E-04
CHILD	6.66E-04	6.46E-04	4.75E-05	6.90E-04	7.16E-04	1.48E-02	6.52E-04	6.41E-04
INFANT	3.86E-04	3.70E-04	3.69E-05	4.13E-04	4.18E-04	1.33E-02	3.78E-04	3.69E-04

TABLE VI-A-15

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 16 BEEF  
 AT 1.98 MILES S

SEMI-ANNUAL BETA AIR DOSE = 5.23E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.71E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.06E-03	3.06E-03
MEAT								
ADULT	2.56E-05	2.32E-05	3.53E-06	2.75E-05	2.81E-05	9.97E-04	2.24E-05	2.22E-05
TEEN	1.53E-05	1.38E-05	2.92E-06	1.75E-05	1.80E-05	7.19E-04	1.35E-05	1.32E-05
CHILD	1.83E-05	1.64E-05	5.36E-06	2.16E-05	2.20E-05	1.08E-03	1.63E-05	1.60E-05

TABLE VI-A-16



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 00-21-84  
 SPECIAL LOCATION # 1 COW  
 AT 2.75 MILES S

SEMI-ANNUAL BETA AIR DOSE = 2.54E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 8.31E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.88E-04	4.88E-04	4.88E-04	4.88E-04	4.88E-04	4.88E-04	5.13E-04	1.49E-03
COW MILK								
ADULT	4.15E-05	3.07E-05	1.76E-05	5.17E-05	6.09E-05	6.37E-03	2.61E-05	2.53E-05
TEEN	5.63E-05	4.02E-05	3.18E-05	7.95E-05	9.64E-05	1.01E-02	3.45E-05	3.30E-05
CHILD	8.98E-05	5.78E-05	7.67E-05	1.32E-04	1.57E-04	1.99E-02	5.44E-05	5.21E-05
INFANT	1.47E-04	8.46E-05	1.52E-04	2.64E-04	2.61E-04	4.83E-02	8.31E-05	7.91E-05

TABLE VI-A-17

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 2 VEG.RES  
 AT 0.62 MILES SSW

SEMI-ANNUAL BETA AIR DOSE = 3.56E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.17E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.90E-03	6.90E-03	6.90E-03	6.90E-03	6.90E-03	6.90E-03	7.26E-03	2.09E-02
GROUND	1.91E-04	1.91E-04	1.91E-04	1.91E-04	1.91E-04	1.91E-04	1.91E-04	2.24E-04
VEGET								
ADULT	1.29E-03	1.11E-03	2.42E-04	1.42E-03	1.44E-03	6.36E-02	1.07E-03	1.05E-03
TEEN	1.40E-03	1.24E-03	2.95E-04	1.65E-03	1.60E-03	5.31E-02	1.23E-03	1.20E-03
CHILD	2.07E-03	1.88E-03	6.25E-04	2.55E-03	2.39E-03	8.05E-02	1.91E-03	1.86E-03
INHAL								
ADULT	5.96E-04	5.88E-04	2.03E-05	6.10E-04	6.28E-04	8.82E-03	5.86E-04	5.80E-04
TEEN	6.04E-04	5.92E-04	2.85E-05	6.24E-04	6.49E-04	1.08E-02	5.94E-04	5.84E-04
CHILD	5.36E-04	5.20E-04	3.87E-05	5.56E-04	5.77E-04	1.20E-02	5.25E-04	5.16E-04
INFANT	3.11E-04	2.98E-04	3.00E-05	3.33E-04	3.37E-04	1.08E-02	3.05E-04	2.97E-04

TABLE VI-A-18

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 3 MILK  
 AT 0.67 MILES SSW

SEMI-ANNUAL BETA AIR DOSE = 3.09E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.03E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.04E-03	6.04E-03	6.04E-03	6.04E-03	6.04E-03	6.04E-03	6.35E-03	1.82E-02
COW MILK								
ADULT	5.41E-04	3.84E-04	2.55E-04	6.88E-04	8.23E-04	9.23E-02	3.17E-04	3.06E-04
TEEN	7.37E-04	5.03E-04	4.61E-04	1.07E-03	1.32E-03	1.46E-01	4.21E-04	3.99E-04
CHILD	1.18E-03	7.12E-04	1.11E-03	1.79E-03	2.16E-03	2.88E-01	6.63E-04	6.30E-04
INFANT	1.94E-03	1.04E-03	2.20E-03	3.64E-03	3.59E-03	7.00E-01	1.01E-03	9.56E-04

TABLE VI-A-19

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 4 BEEF  
 AT 2.01 MILES SSW

SEMI-ANNUAL BETA AIR DOSE = 2.58E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 8.42E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.95E-04	4.95E-04	4.95E-04	4.95E-04	4.95E-04	4.95E-04	5.20E-04	1.51E-03
MEAT								
ADULT	1.25E-05	1.14E-05	1.66E-06	1.34E-05	1.37E-05	4.68E-04	1.10E-05	1.09E-05
TEEN	7.49E-06	6.80E-06	1.37E-06	8.54E-06	8.76E-06	3.37E-04	6.63E-06	6.52E-06
CHILD	8.94E-06	8.04E-06	2.51E-06	1.05E-05	1.07E-05	5.07E-04	8.00E-06	7.87E-06

TABLE VI-A-20

FORT CALHOIN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 5 VEG, RES  
 AT 0.71 MILES SW

SEMI-ANNUAL BETA AIR DOSE = 3.04E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.00E-02 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.88E-03	5.88E-03	5.88E-03	5.88E-03	5.88E-03	5.88E-03	6.19E-03	1.78E-02
GROUND	1.67E-04	1.67E-04	1.67E-04	1.67E-04	1.67E-04	1.67E-04	1.67E-04	1.96E-04
VEGET								
ADULT	1.11E-03	9.48E-04	2.12E-04	1.22E-03	1.23E-03	5.57E-02	9.11E-04	8.93E-04
TEEN	1.20E-03	1.06E-03	2.58E-04	1.42E-03	1.37E-03	4.65E-02	1.05E-03	1.02E-03
CHILD	1.77E-03	1.61E-03	5.48E-04	2.19E-03	2.05E-03	7.06E-02	1.63E-03	1.58E-03
INHAL								
ADULT	5.09E-04	5.02E-04	1.73E-05	5.20E-04	5.35E-04	7.50E-03	5.00E-04	4.95E-04
TEEN	5.15E-04	5.05E-04	2.42E-05	5.33E-04	5.54E-04	9.18E-03	5.07E-04	4.98E-04
CHILD	4.58E-04	4.44E-04	3.29E-05	4.74E-04	4.93E-04	1.02E-02	4.48E-04	4.40E-04
INFANT	2.65E-04	2.55E-04	2.56E-05	2.84E-04	2.58E-04	9.21E-03	2.60E-04	2.53E-04

TABLE VI-A-21

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 6 BEEF  
 AT 0.81 MILES SW

SEMI-ANNUAL BETA AIR DOSE = 2.27E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 7.45E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.38E-03	4.60E-03	1.33E-02
MEAT								
ADULT	1.13E-04	1.01E-04	1.77E-05	1.23E-04	1.25E-04	5.00E-03	9.71E-05	9.58E-05
TEEN	6.76E-05	6.03E-05	1.46E-05	7.88E-05	8.12E-05	3.61E-03	5.84E-05	5.72E-05
CHILD	8.05E-05	7.09E-05	2.69E-05	9.74E-05	9.95E-05	5.43E-03	7.04E-05	6.90E-05

TABLE VI-A-22



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 7 VEG.RES  
 AT 1.01 MILES WSW

SEMI-ANNUAL BETA AIR DOSE = 1.12E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 3.69E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.17E-03	2.17E-03	2.17E-03	2.17E-03	2.17E-03	2.17E-03	2.28E-03	6.58E-03
GROUND	5.87E-05	5.87E-05	5.87E-05	5.87E-05	5.87E-05	5.87E-05	5.87E-05	6.89E-05
VEGET								
ADULT	4.05E-04	3.50E-04	7.44E-05	4.45E-04	4.50E-04	1.96E-02	3.36E-04	3.30E-04
TEEN	4.42E-04	3.92E-04	9.07E-05	5.18E-04	5.01E-04	1.64E-02	3.89E-04	3.78E-04
CHILD	6.52E-04	5.95E-04	1.92E-04	7.98E-04	7.51E-04	2.48E-02	6.02E-04	5.86E-04
INHAL								
ADULT	1.88E-04	1.85E-04	6.30E-06	1.92E-04	1.98E-04	2.75E-03	1.85E-04	1.83E-04
TEEN	1.90E-04	1.87E-04	8.85E-06	1.97E-04	2.05E-04	3.36E-03	1.87E-04	1.84E-04
CHILD	1.69E-04	1.64E-04	1.20E-05	1.75E-04	1.82E-04	3.74E-03	1.66E-04	1.63E-04
INFANT	9.81E-05	9.41E-05	9.33E-06	1.05E-04	1.06E-04	3.37E-03	9.61E-05	9.37E-05

TABLE VI-A-23

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 8 BEEF, PORK  
 AT 4.71 MILES WSW

SEMI-ANNUAL BETA AIR DOSE = 4.14E-04 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.33E-04 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.81E-05	7.81E-05	7.81E-05	7.81E-05	7.81E-05	7.81E-05	8.22E-05	2.40E-04
MEAT								
ADULT	1.97E-06	1.83E-06	2.06E-07	2.08E-06	2.11E-06	5.84E-05	1.79E-06	1.77E-06
TEEN	1.18E-06	1.09E-06	1.70E-07	1.31E-06	1.34E-06	4.21E-05	1.07E-06	1.06E-06
CHILD	1.41E-06	1.30E-06	3.12E-07	1.61E-06	1.63E-06	6.32E-05	1.29E-06	1.28E-06

TABLE VI-A-24

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 9 VEG.RES  
 AT 1.17 MILES W

SEMI-ANNUAL BETA AIR DOSE = 1.17E-02 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 3.84E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.37E-03	6.86E-03
GROUND	6.22E-05	6.22E-05	6.22E-05	6.22E-05	6.22E-05	6.22E-05	6.22E-05	7.30E-05
VEGET								
ADULT	4.25E-04	3.67E-04	7.89E-05	4.68E-04	4.74E-04	2.07E-02	3.53E-04	3.47E-04
TEEN	4.64E-04	4.12E-04	9.61E-05	5.45E-04	5.27E-04	1.73E-02	4.08E-04	3.97E-04
CHILD	6.85E-04	6.24E-04	2.04E-04	8.40E-04	7.90E-04	2.63E-02	6.32E-04	6.15E-04
INHAL								
ADULT	1.97E-04	1.95E-04	6.54E-06	2.02E-04	2.07E-04	2.85E-03	1.94E-04	1.92E-04
TEEN	2.00E-04	1.96E-04	9.18E-06	2.06E-04	2.14E-04	3.49E-03	1.97E-04	1.93E-04
CHILD	1.77E-04	1.72E-04	1.25E-05	1.84E-04	1.91E-04	3.89E-03	1.74E-04	1.71E-04
INFANT	1.03E-04	9.88E-05	9.68E-06	1.10E-04	1.11E-04	3.50E-03	1.01E-04	9.83E-05

TABLE VI-A-25

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 10 BEEF  
 AT 1.94 MILES W

SEMI-ANNUAL BETA AIR DOSE = 3.94E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.24E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.21E-04	7.21E-04	7.21E-04	7.21E-04	7.21E-04	7.21E-04	7.61E-04	2.25E-03
MEAT								
ADULT	1.98E-05	1.80E-05	2.55E-06	2.11E-05	2.15E-05	7.17E-04	1.74E-05	1.72E-05
TEEN	1.18E-05	1.07E-05	2.11E-06	1.34E-05	1.37E-05	5.17E-04	1.05E-05	1.03E-05
CHILD	1.41E-05	1.27E-05	3.87E-06	1.65E-05	1.68E-05	7.77E-04	1.26E-05	1.24E-05

TABLE VI-A-26

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 11 MILK  
 AT 2.16 MILES W

SEMI-ANNUAL BETA AIR DOSE = 3.00E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 9.81E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.76E-04	5.76E-04	5.76E-04	5.76E-04	5.76E-04	5.76E-04	6.06E-04	1.75E-03
COW MILK								
ADULT	4.91E-05	3.62E-05	2.10E-05	6.12E-05	7.23E-05	7.59E-03	3.07E-05	2.98E-05
TEEN	6.67E-05	4.74E-05	3.79E-05	9.44E-05	1.14E-04	1.20E-02	4.07E-05	3.88E-05
CHILD	1.06E-04	6.81E-05	9.15E-05	1.57E-04	1.87E-04	2.37E-02	6.41E-05	6.14E-05
INFANT	1.74E-04	9.97E-05	1.81E-04	3.14E-04	3.10E-04	5.75E-02	9.80E-05	9.31E-05

TABLE VI-A-27



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 12 RES,BEEF  
 AT 2.00 MILES WNW

SEMI-ANNUAL BETA AIR DOSE = 6.81E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 2.23E-03 MILLRADS

PATHWAY	T.BODY	GI-TRAC	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.31E-03	1.37E-03	3.98E-03
GROUND	2.71E-05	2.71E-05	2.71E-05	2.71E-05	2.71E-05	2.71E-05	2.71E-05	3.18E-05
MEAT								
ADULT	3.27E-05	3.00E-05	3.91E-06	3.48E-05	3.54E-05	1.11E-03	2.91E-05	2.88E-05
TEEN	1.95E-05	1.79E-05	3.23E-06	2.20E-05	2.25E-05	7.98E-04	1.75E-05	1.72E-05
CHILD	2.33E-05	2.12E-05	5.93E-06	2.70E-05	2.75E-05	1.20E-03	2.11E-05	2.08E-05
INHAL								
ADULT	1.14E-04	1.13E-04	3.72E-06	1.17E-04	1.20E-04	1.63E-03	1.12E-04	1.11E-04
TEEN	1.16E-04	1.13E-04	5.23E-06	1.19E-04	1.24E-04	1.99E-03	1.14E-04	1.12E-04
CHILD	1.03E-04	9.97E-05	7.10E-06	1.06E-04	1.10E-04	2.22E-03	1.00E-04	9.89E-05
INFANT	5.95E-05	5.72E-05	5.52E-06	6.35E-05	6.43E-05	2.00E-03	5.83E-05	5.69E-05

TABLE VI-A-28



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 13 VEG  
 AT 2.23 MILES WNW

SEMI-ANNUAL BETA AIR DOSE = 5.33E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.74E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	1.08E-03	3.11E-03
VEGET								
ADULT	1.83E-04	1.64E-04	2.64E-05	1.98E-04	2.00E-04	6.98E-03	1.59E-04	1.57E-04
TEEN	2.02E-04	1.85E-04	3.22E-05	2.29E-04	2.23E-04	5.84E-03	1.84E-04	1.80E-04
CHILD	3.02E-04	2.82E-04	6.82E-05	3.54E-04	3.37E-04	8.86E-03	2.84E-04	2.78E-04

TABLE VI-A-29

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 14 MILK  
 AT 4.58 MILES WNW

SEMI-ANNUAL BETA AIR DOSE = 1.26E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 4.07E-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	2.51E-04	7.31E-04
COW MILK								
ADULT	1.04E-05	1.45E-05	6.27E-06	2.20E-05	2.53E-05	2.27E-03	1.29E-05	1.26E-05
TEEN	2.48E-05	1.90E-05	1.13E-05	3.30E-05	3.90E-05	3.59E-03	1.70E-05	1.64E-05
CHILD	3.94E-05	2.80E-05	2.74E-05	5.46E-05	6.35E-05	7.10E-03	2.68E-05	2.59E-05
INFANT	6.35E-05	4.13E-05	5.42E-05	1.05E-04	1.04E-04	1.72E-02	4.08E-05	3.94E-05

TABLE VI-A-30

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 15 RES  
 AT 2.40 MILES NW

SEMI-ANNUAL BETA AIR DOSE = 7.23E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 2.36E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.39E-03	1.39E-03	1.39E-03	1.39E-03	1.39E-03	1.39E-03	1.46E-03	4.22E-03
GROUND	2.90E-05	2.90E-05	2.90E-05	2.90E-05	2.90E-05	2.90E-05	2.90E-05	3.40E-05
INHAL								
ADULT	1.21E-04	1.19E-04	3.91E-06	1.24E-04	1.27E-04	1.71E-03	1.19E-04	1.18E-04
TEEN	1.23E-04	1.20E-04	5.49E-06	1.27E-04	1.31E-04	2.09E-03	1.21E-04	1.19E-04
CHILD	1.09E-04	1.06E-04	7.45E-06	1.13E-04	1.17E-04	2.33E-03	1.07E-04	1.05E-04
INFANT	6.32E-05	6.07E-05	5.80E-06	6.74E-05	6.82E-05	2.10E-03	6.19E-05	6.04E-05

TABLE VI-A-31

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 16 VEG  
 AT 2.60 MILES NW

SEMI-ANNUAL BETA AIR DOSE = 6.09E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.99E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.17E-03	1.23E-03	3.56E-03
VEGET								
ADULT	2.10E-04	1.88E-04	3.06E-05	2.27E-04	2.29E-04	8.10E-03	1.82E-04	1.80E-04
TEEN	2.32E-04	2.12E-04	3.73E-05	2.63E-04	2.56E-04	6.78E-03	2.10E-04	2.06E-04
CHILD	3.46E-04	3.22E-04	7.92E-05	4.06E-04	3.87E-04	1.03E-02	3.25E-04	3.19E-04

TABLE VI-A-32

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 09-21-84  
 SPECIAL LOCATION # 1 MILK,PORK  
 AT 3.47 MILES NW

SEMI-ANNUAL BETA AIR DOSE = 3.46E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 1.13E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.60E-04	6.60E-04	6.60E-04	6.60E-04	6.60E-04	6.60E-04	6.94E-04	2.02E-03
MEAT								
ADULT	1.64E-05	1.52E-05	1.76E-06	1.74E-05	1.76E-05	5.00E-04	1.48E-05	1.47E-05
TEEN	9.81E-06	9.08E-06	1.45E-06	1.09E-05	1.12E-05	3.60E-04	8.89E-06	8.77E-06
CHILD	1.17E-05	1.08E-05	2.67E-06	1.34E-05	1.36E-05	5.41E-04	1.07E-05	1.06E-05
COW MILK								
ADULT	5.17E-05	4.02E-05	1.86E-05	6.25E-05	7.23E-05	6.75E-03	3.54E-05	3.45E-05
TEEN	6.97E-05	5.26E-05	3.37E-05	9.43E-05	1.12E-04	1.07E-02	4.66E-05	4.50E-05
CHILD	1.11E-04	7.71E-05	8.13E-05	1.56E-04	1.83E-04	2.11E-02	7.35E-05	7.11E-05
INFANT	1.80E-04	1.14E-04	1.61E-04	3.04E-04	3.01E-04	5.11E-02	1.12E-04	1.08E-04

TABLE VI-A-33

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 2 BEEF  
 AT 1.06 MILES NNW

SEMI-ANNUAL BETA AIR DOSE =  $2.86E-02$  MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE =  $9.40E-03$  MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	$5.53E-03$	$5.53E-03$	$5.53E-03$	$5.53E-03$	$5.53E-03$	$5.53E-03$	$5.81E-03$	$1.68E-02$
MEAT								
ADULT	$1.45E-04$	$1.28E-04$	$2.50E-05$	$1.59E-04$	$1.62E-04$	$7.01E-03$	$1.23E-04$	$1.21E-04$
TEEN	$8.67E-05$	$7.64E-05$	$2.06E-05$	$1.02E-04$	$1.06E-04$	$5.06E-03$	$7.37E-05$	$7.20E-05$
CHILD	$1.03E-04$	$8.96E-05$	$3.79E-05$	$1.27E-04$	$1.30E-04$	$7.62E-03$	$8.90E-05$	$8.70E-05$

TABLE VI-A-34



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 3 VEG, RES  
 AT 2.01 MILES NNW

SEMI-ANNUAL BETA AIR DOSE = 6.95E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 2.28E-03 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03	1.41E-03	4.07E-03
GROUND	3.37E-05	3.37E-05	3.37E-05	3.37E-05	3.37E-05	3.37E-05	3.37E-05	3.95E-05
VEGET								
ADULT	2.47E-04	2.16E-04	4.27E-05	2.70E-04	2.73E-04	1.13E-02	2.08E-04	2.05E-04
TEEN	2.71E-04	2.42E-04	5.21E-05	3.14E-04	3.05E-04	9.40E-03	2.40E-04	2.34E-04
CHILD	4.01E-04	3.68E-04	1.10E-04	4.85E-04	4.58E-04	1.43E-02	3.72E-04	3.63E-04
INHAL								
ADULT	1.16E-04	1.15E-04	3.80E-06	1.19E-04	1.22E-04	1.66E-03	1.15E-04	1.13E-04
TEEN	1.18E-04	1.16E-04	5.34E-06	1.22E-04	1.26E-04	2.03E-03	1.16E-04	1.14E-04
CHILD	1.05E-04	1.02E-04	7.24E-06	1.08E-04	1.12E-04	2.26E-03	1.02E-04	1.01E-04
INFANT	6.07E-05	5.83E-05	5.63E-06	6.48E-05	6.56E-05	2.04E-03	5.95E-05	5.80E-05

TABLE VI-A-35

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 08-21-84  
 SPECIAL LOCATION # 4 PORK  
 AT 3.70 MILES NNW

SEMI-ANNUAL BETA AIR DOSE = 2.00E-03 MILLRADS  
 SEMI-ANNUAL GAMMA AIR DOSE = 6.51E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.82E-04	3.82E-04	3.82E-04	3.82E-04	3.82E-04	3.82E-04	4.02E-04	1.16E-03
MEAT								
ADULT	9.57E-06	8.80E-06	1.12E-06	1.02E-05	1.03E-05	3.17E-04	8.56E-06	8.48E-06
TEEN	5.71E-06	5.25E-06	9.22E-07	6.42E-06	6.57E-06	2.28E-04	5.13E-06	5.06E-06
CHILD	6.83E-06	6.23E-06	1.70E-06	7.90E-06	8.03E-06	3.43E-04	6.20E-06	6.11E-06

TABLE VI-A-36

FORT CALHOUN 1 SEMI-ANNUAL 1/84- 6/84 TRI-EX TOWER DATA 08-21-84  
 SEMI-ANNUAL ALARA INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	G1-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.79E-02 73.65%	1.79E-02 75.37%	1.79E-02 92.30%	1.79E-02 71.70%	1.79E-02 70.50%	1.79E-02 5.06%	1.93E-02 77.18%	6.82E-02 92.30%
GROUND	3.64E-04 1.49%	3.64E-04 1.53%	3.64E-04 1.87%	3.64E-04 1.48%	3.64E-04 1.43%	3.64E-04 0.10%	3.64E-04 1.46%	4.27E-04 0.58%
INHAL	2.28E-03 9.39%	2.25E-03 9.47%	7.87E-05 0.41%	2.33E-03 9.34%	2.40E-03 9.43%	3.19E-02 8.99%	2.25E-03 9.01%	2.23E-03 3.01%
VEGET	2.57E-03 10.55%	2.23E-03 9.39%	6.89E-04 3.55%	2.96E-03 11.86%	3.21E-03 12.63%	2.01E-01 56.67%	2.12E-03 8.50%	2.09E-03 2.83%
COW MILK	6.74E-04 2.77%	5.22E-04 2.20%	3.02E-04 1.55%	8.53E-04 3.42%	9.61E-04 3.78%	8.72E-02 24.63%	4.86E-04 1.95%	4.73E-04 0.64%
MEAT	5.22E-04 2.15%	4.85E-04 2.04%	6.20E-05 0.32%	5.58E-04 2.23%	5.66E-04 2.23%	1.61E-02 4.55%	4.76E-04 1.91%	4.72E-04 0.64%
*TOTAL*	2.43E-02	2.38E-02	1.94E-02	2.50E-02	2.54E-02	3.54E-01	2.50E-02	7.39E-02

TABLE VI-B-1

DISCHARGE=8.02E+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 1/84- 6/84

NO RECONCENTRATION OF NUCLIDES

\* \* \* ADULT DOSE FACTORS \* \* \*

NUCLIDE	CURIE/ 5YR	INGESTION DOSE FACTORS (NREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)		
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON
27CO	57	1.14E-03	0.00E+00	1.75E-07	2.91E-07	0.00E+00	0.00E+00	4.44E-06	1.00E-09	9.10E-10	1.00E+00
42MO	99	5.56E-03	0.00E+00	4.31E-06	8.20E-07	0.00E+00	9.77E-06	0.00E+00	9.99E-06	2.20E-09	1.90E-09
43TC	99M	6.04E-03	2.47E-10	6.98E-10	8.90E-09	0.00E+00	1.06E-08	3.42E-10	4.13E-07	1.10E-09	9.60E-10
58CE	141	1.86E-03	9.37E-09	6.34E-09	7.18E-10	0.00E+00	2.94E-09	0.00E+00	2.42E-05	6.20E-10	5.50E-10
24CR	51	9.01E-03	0.00E+00	0.00E+00	2.66E-09	1.59E-09	5.87E-10	3.53E-09	6.69E-07	2.60E-10	2.20E-10
53I	131	2.19E-02	4.16E-06	5.96E-06	3.41E-06	1.95E-03	1.02E-05	0.00E+00	1.57E-06	3.40E-09	2.80E-09
53I	133	5.96E-03	1.43E-06	2.48E-06	7.57E-07	4.77E-04	4.33E-06	0.00E+00	2.18E-06	4.50E-09	3.70E-09
56BA	140	3.71E-03	2.03E-05	2.55E-08	1.34E-06	0.00E+00	8.68E-09	1.46E-08	4.18E-05	2.40E-09	2.10E-09
44RU	103	1.12E-03	1.85E-07	0.00E+00	7.98E-08	0.00E+00	7.07E-07	0.00E+00	2.16E-05	4.20E-09	3.60E-09
55CS	137	4.63E-02	7.98E-05	1.09E-04	7.15E-05	0.00E+00	3.71E-05	1.23E-05	2.10E-06	4.90E-09	4.20E-09
40ZR	95	2.53E-03	3.04E-08	9.76E-09	6.61E-09	0.00E+00	1.54E-08	0.00E+00	3.03E-05	5.80E-09	5.00E-09
41NB	95	1.38E-03	6.23E-09	3.46E-09	1.36E-09	0.00E+00	3.43E-09	0.00E+00	2.10E-05	6.00E-09	5.10E-09
55CS	134	3.35E-02	6.22E-05	1.48E-04	1.21E-04	0.00E+00	4.80E-05	1.59E-05	2.59E-06	1.40E-08	1.20E-08
27CO	58	2.65E-02	0.00E+00	7.46E-07	1.67E-06	0.00E+00	0.00E+00	0.00E+00	1.51E-05	8.20E-09	7.00E-09
25MN	54	1.08E-03	0.00E+00	4.57E-06	8.73E-07	0.00E+00	1.36E-06	0.00E+00	1.40E-05	6.80E-09	5.80E-09
55CS	136	1.32E-03	6.51E-06	2.57E-05	1.85E-05	0.00E+00	1.43E-05	1.96E-06	2.92E-06	1.70E-08	1.50E-08
26FE	59	1.10E-03	4.34E-06	1.03E-05	3.92E-06	0.00E+00	0.00E+00	2.86E-06	3.40E-05	9.40E-09	8.00E-09
30ZN	65	1.25E-03	4.85E-06	1.54E-05	6.97E-06	0.00E+00	1.03E-05	0.00E+00	9.70E-06	4.60E-09	4.00E-09
27CO	60	3.07E-03	0.00E+00	2.15E-06	4.72E-06	0.00E+00	0.00E+00	0.00E+00	4.02E-05	2.00E-08	1.70E-08
57LA	140	4.98E-04	2.50E-09	1.26E-09	3.34E-10	0.00E+00	0.00E+00	0.00E+00	9.25E-05	1.70E-08	1.50E-08
51SB	124	8.17E-04	2.81E-06	5.30E-08	1.11E-06	6.79E-09	0.00E+00	2.18E-06	7.95E-05	1.50E-08	1.30E-08
1H	3	1.47E-02	0.00E+00	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	0.00E+00	0.00E+00

TABLE VI-C-1

\* \* \* TEENAGER DOSE FACTORS \* \* \*

NUCLIDE	CURIE/.5YR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)		
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON
58CE 141	1.86E-03	1.26E-08	8.46E-09	9.70E-10	0.00E+00	2.94E-09	0.00E+00	2.29E-05			
53I 131	2.19E-02	5.57E-06	7.87E-06	4.69E-06	2.27E-03	1.02E-05	0.00E+00	1.49E-06			
53I 133	5.96E-03	2.03E-06	3.44E-06	1.06E-06	6.25E-04	4.33E-06	0.00E+00	2.50E-06			
56BA 140	3.71E-03	2.83E-05	3.48E-08	1.82E-06	0.00E+00	8.68E-09	2.33E-08	4.14E-06			
44RU 103	1.12E-03	2.37E-07	0.00E+00	1.06E-07	0.00E+00	7.07E-07	0.00E+00	1.85E-05			
55CS 137	4.63E-02	1.07E-04	1.44E-04	5.05E-05	0.00E+00	3.71E-05	1.91E-05	1.92E-06			
40ZR 95	2.53E-03	3.72E-08	1.24E-08	8.66E-09	0.00E+00	1.54E-08	0.00E+00	2.68E-05			
41NB 95	1.38E-03	7.24E-09	4.36E-09	2.46E-09	0.00E+00	3.43E-09	0.00E+00	1.78E-05			
55CS 134	3.35E-02	8.05E-05	1.94E-04	9.06E-05	0.00E+00	4.80E-05	2.35E-05	2.24E-06			
27CO 58	2.65E-02	0.00E+00	9.92E-07	2.26E-06	0.00E+00	0.00E+00	0.00E+00	1.34E-05			
27CO 60	3.07E-03	0.00E+00	2.76E-06	6.30E-06	0.00E+00	0.00E+00	0.00E+00	3.31E-05			
57LA 140	4.98E-04	3.48E-09	1.72E-09	4.55E-10	0.00E+00	0.00E+00	0.00E+00	9.48E-05			
1H 3	1.47E+02	0.00E+00	1.06E-07	1.06E-07	1.06E-07	1.34E-07	1.34E-07	1.06E-07			

\* \* \* CHILD DOSE FACTORS \* \* \*

NUCLIDE	CURIE/.5YR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)		
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON
58CE 141	1.86E-03	3.76E-08	1.88E-08	2.80E-09	0.00E+00	2.94E-09	0.00E+00	2.36E-05			
53I 131	2.19E-02	1.63E-05	1.67E-05	1.26E-05	5.43E-03	1.02E-05	0.00E+00	1.43E-06			
53I 133	5.96E-03	5.98E-06	7.38E-06	2.90E-06	1.78E-03	4.33E-06	0.00E+00	2.99E-06			
56BA 140	3.71E-03	8.26E-05	7.25E-08	4.85E-06	0.00E+00	8.68E-09	4.32E-08	4.21E-06			
44RU 103	1.12E-03	6.78E-07	0.00E+00	2.74E-07	0.00E+00	7.07E-07	0.00E+00	1.78E-05			
55CS 137	4.63E-02	3.12E-04	3.02E-04	4.50E-05	0.00E+00	3.71E-05	3.54E-05	1.84E-06			
40ZR 95	2.53E-03	1.04E-07	2.42E-08	2.20E-08	0.00E+00	1.54E-08	0.00E+00	2.50E-05			
41NB 95	1.38E-03	1.95E-08	8.32E-09	6.11E-09	0.00E+00	3.43E-09	0.00E+00	1.44E-05			
55CS 134	3.35E-02	2.24E-04	3.77E-04	8.02E-05	0.00E+00	4.80E-05	4.19E-05	2.04E-06			
27CO 58	2.65E-02	0.00E+00	1.85E-06	5.58E-06	0.00E+00	0.00E+00	0.00E+00	1.10E-05			
27CO 60	3.07E-03	0.00E+00	5.17E-06	1.55E-05	0.00E+00	0.00E+00	0.00E+00	2.86E-05			
57LA 140	4.98E-04	1.01E-08	3.52E-09	1.19E-09	0.00E+00	0.00E+00	0.00E+00	1.00E-04			
1H 3	1.47E+02	0.00E+00	2.03E-07	2.03E-07	2.03E-07	1.34E-07	2.03E-07	2.03E-07			

\* \* \* INFANT DOSE FACTORS \* \* \*

NUCLIDE	CURIE/.5YR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)		
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON
58CE 141	1.86E-03	8.00E-08	4.91E-08	5.75E-09	0.00E+00	2.94E-09	0.00E+00	2.38E-05			
53I 131	2.19E-02	3.42E-05	4.07E-05	2.38E-05	1.31E-02	1.02E-05	0.00E+00	1.53E-06			
53I 133	5.96E-03	1.26E-05	1.84E-05	5.58E-06	4.35E-03	4.33E-06	0.00E+00	3.27E-06			
56BA 140	3.71E-03	1.74E-04	1.75E-07	8.99E-06	0.00E+00	8.68E-09	1.07E-07	4.43E-06			
44RU 103	1.12E-03	1.41E-06	0.00E+00	4.85E-07	0.00E+00	7.07E-07	0.00E+00	1.76E-05			
55CS 137	4.63E-02	6.53E-04	7.31E-04	4.20E-05	0.00E+00	3.71E-05	8.81E-05	1.89E-06			
40ZR 95	2.53E-03	2.11E-07	5.32E-08	3.78E-08	0.00E+00	1.54E-08	0.00E+00	2.38E-05			
41NB 95	1.38E-03	3.89E-08	1.75E-08	1.03E-08	0.00E+00	3.43E-09	0.00E+00	1.40E-05			
55CS 134	3.35E-02	4.58E-04	8.24E-04	6.97E-05	0.00E+00	4.80E-05	9.42E-05	1.96E-06			
27CO 58	2.65E-02	0.00E+00	3.78E-06	9.26E-06	0.00E+00	0.00E+00	0.00E+00	9.79E-06			
27CO 60	3.07E-03	0.00E+00	1.07E-05	2.56E-05	0.00E+00	0.00E+00	0.00E+00	2.64E-05			
57LA 140	4.98E-04	2.12E-08	8.37E-09	2.16E-09	0.00E+00	0.00E+00	0.00E+00	1.04E-04			
1H 3	1.47E+02	0.00E+00	3.07E-07	3.07E-07	3.07E-07	1.34E-07	3.07E-07	3.07E-07			

TOTAL NUMBER IN SOURCE TERM IS 22 TOTAL RELEASE IS 1.4758E+02

TABLE VI-C-2

\* \* \* AS LOW AS REASONABLY ACHIEVABLE \* \* \*

# ADULT DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		3.40E-01	5.90E-01	4.34E-01	1.83E-02	1.97E-01	6.53E-02	3.83E-02
DRINKING		1.97E-04	9.92E-04	9.03E-04	2.02E-03	7.73E-04	6.90E-04	6.96E-04
SHORELINE	3.96E-04	3.39E-04	3.39E-04	3.39E-04	3.39E-04	3.39E-04	3.39E-04	3.39E-04
SWIMMING	0.00E+00	4.31E-06	4.31E-06	4.31E-06	4.31E-06	4.31E-06	4.31E-06	4.31E-06
BOATING	0.00E+00	2.16E-06	2.16E-06	2.16E-06	2.16E-06	2.16E-06	2.16E-06	2.16E-06
TOTAL	3.96E-04	3.40E-01	5.92E-01	4.36E-01	2.07E-02	1.99E-01	6.63E-02	3.93E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	21.0	1.0	24.00	
DRINKING	730.0	30.8	18.60	
SHORELINE	12.0	1.0	0.00	
SWIMMING	12.0	1.0	0.00	
BOATING	12.0	1.0	0.00	

\* \* \* ISOTOPE CONTRIBUTION \* \* \*

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 63% CS 134 35%	CS 137 50% CS 134 49%	CS 137 44% CS 134 54%	I 131 94% I 133 3% H 3 2%	CS 137 51% CS 134 47%	CS 137 51% CS 134 47%	CS 137 14% NB 95 65% CS 134 13% CO 58 1% ZN 65 1% H 3 1%
DRINKING		I 131 1% BA 140 1% CS 137 61% CS 134 34%	CS 137 16% CS 134 16% H 3 65%	CS 137 12% CS 134 14% H 3 72%	I 131 65% I 133 2% H 3 32%	CS 137 7% CS 134 6% H 3 84%	CS 137 2% CS 134 2% H 3 94%	CO 58 1% H 3 93%
SHORELINE		CS 137 60% CS 134 29% CO 58 1% CO 60 8%	CS 137 60% CS 134 29% CO 58 1% CO 60 8%					
SWIM M		MO 99 1% I 131 6% I 133 2% CS 137 17% ZR 95 1% CS 134 37% CO 58 18% CS 136 2% CO 60 5% SB 124 1%						

TABLE VI-C-3



TEENAGER DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		3.43E-01	5.91E-01	2.42E-01	1.61E-02	1.50E-01	7.51E-02	2.52E-02
DRINKING		1.82E-04	6.72E-04	4.90E-04	1.48E-03	5.40E-04	4.00E-04	3.85E-04
SHORELINE	2.21E-03	1.89E-03	1.89E-03	1.89E-03	1.89E-03	1.89E-03	1.89E-03	1.89E-03
SWIMMING	0.00E+00	2.41E-05	2.41E-05	2.41E-05	2.41E-05	2.41E-05	2.41E-05	2.41E-05
BOATING	0.00E+00	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05
TOTAL	2.21E-03	3.45E-01	5.94E-01	2.44E-01	1.95E-02	1.53E-01	7.74E-02	2.75E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	16.0	1.0	24.00	
DRINKING	510.0	30.8	18.60	
SHORELINE	67.0	1.0	0.00	
SWIMMING	67.0	1.0	0.00	
BOATING	67.0	1.0	0.00	

\* \* \* ISOTOPE CONTRIBUTION \* \* \*

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 64% CS 134 35%	CS 137 50% CS 134 49%	CS 137 43% CS 134 56%	I 131 94% I 133 3% H 3 1%	CS 137 51% CS 134 47%	CS 137 52% CS 134 46%	CS 137 15% NB 95 63% CS 134 13% CO 58 1% ZN 65 2% H 3 1%
DRINKING		I 131 1% BA 140 1% CS 137 62% CS 134 34%	CS 137 22% CS 134 22% H 3 53%	CS 137 11% CS 134 14% H 3 73%	I 131 72% I 133 3% H 3 24%	CS 137 7% CS 134 6% H 3 84%	CS 137 5% CS 134 4% H 3 90%	CO 58 2% H 3 93%
SHORELINE	CS 137 60% CS 134 29% CO 58 1% CO 60 8%	CS 137 60% CS 134 29% CO 58 1% CO 60 8%						
SWIM M		MO 99 1% I 131 6% I 133 2% CS 137 17% ZR 95 1% CS 134 37% CO 58 18% CS 136 2% CO 60 5% SB 124 1%						

TABLE VI-C-4

C H I L D   D O S E S

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		4.23E-01	5.14E-01	9.29E-02	1.67E-02	6.49E-02	5.89E-02	9.44E-03
DRINKING		5.23E-04	1.32E-03	8.14E-04	3.39E-03	5.40E-04	7.62E-04	7.13E-04
SHORELINE	4.62E-04	3.96E-04	3.96E-04	3.96E-04	3.96E-04	3.96E-04	3.96E-04	3.96E-04
SWIMMING	0.00E+00	5.03E-06	5.03E-06	5.03E-06	5.03E-06	5.03E-06	5.03E-06	5.03E-06
BOATING	0.00E+00	2.52E-06	2.52E-06	2.52E-06	2.52E-06	2.52E-06	2.52E-06	2.52E-06
TOTAL	4.62E-04	4.24E-01	5.16E-01	9.41E-02	2.05E-02	6.58E-02	6.01E-02	1.06E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	6.9	1.0	24.00	
DRINKING	510.0	30.8	18.60	
SHORELINE	14.0	1.0	0.00	
SWIMMING	14.0	1.0	0.00	
BOATING	14.0	1.0	0.00	

\* \* \* ISOTOPE CONTRIBUTION \* \* \*

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 65%	CS 137 52%	CS 137 43%	I 131 94%	CS 137 51%	CS 137 53%	CS 137 17%
		CS 134 34%	CS 134 47%	CS 134 55%	I 133 4%	CS 134 47%	CS 134 45%	NB 95 59%
					H 3 1%			CS 134 13%
								CO 58 1%
DRINKING								ZN 65 2%
								H 3 2%
		I 131 1%	CS 137 24%	CS 137 5%	I 131 75%	CS 137 7%	CS 137 4%	H 3 96%
		BA 140 1%	CS 134 22%	CS 134 7%	I 133 3%	CS 134 6%	CS 134 4%	
SHORELINE		CS 137 63%	H 3 52%	H 3 84%	H 3 20%	H 3 84%	H 3 90%	
		CS 134 33%						
	CS 137 60%	CS 137 60%						
	CS 134 29%	CS 134 29%						
SWIM M	CO 58 1%	CO 58 1%						
	CO 60 8%	CO 60 8%						
		MO 99 1%						
		I 131 6%						
		I 133 2%						
		CS 137 17%						
		ZR 95 1%						
		CS 134 37%						
		CO 58 18%						
		CS 136 2%						
		CO 60 5%						
		SB 124 1%						

TABLE VI-C-5

\* \* \* AS LOW AS REASONABLY ACHIEVABLE \* \* \*

# I N F A N T   D O S E S

	DOSE (MREM PER .5YR INTAKE)							
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DRINKING		1.09E-03	2.49E-03	1.17E-03	7.56E-03	5.40E-04	1.21E-03	1.07E-03
SHORELINE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	1.09E-03	2.49E-03	1.17E-03	7.56E-03	5.40E-04	1.21E-03	1.07E-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		I 131 1%	CS 137 31%	CS 137 3%	I 131 81%	CS 137 7%	CS 137 7%	H 3 98%
		BA 140 1%	CS 134 25%	CS 134 4%	I 133 4%	CS 134 6%	CS 134 6%	
		CS 137 64%	H 3 41%	H 3 89%	H 3 13%	H 3 84%	H 3 86%	
		CS 134 32%						

TABLE VI-C-6

LOCATION IS SITE DISCHG.

A D U L T D O S E S

	DOSE (MREM PER .5YR INTAKE)							
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		3.40E-01	5.90E-01	4.34E-01	1.83E-02	1.97E-01	6.53E-02	3.83E-02
DRINKING		6.08E-03	3.06E-02	2.78E-02	6.37E-02	2.38E-02	2.12E-02	2.14E-02
SHORELINE	3.96E-04	3.39E-04	3.39E-04	3.39E-04	3.39E-04	3.39E-04	3.39E-04	3.39E-04
SWIMMING	0.00E+00	4.31E-06	4.31E-06	4.31E-06	4.31E-06	4.31E-06	4.31E-06	4.31E-06
BOATING	0.00E+00	2.16E-06	2.16E-06	2.16E-06	2.16E-06	2.16E-06	2.16E-06	2.16E-06
TOTAL	3.96E-04	3.46E-01	6.21E-01	4.62E-01	8.23E-02	2.22E-01	8.69E-02	6.01E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	21.0	1.0	24.00	
DRINKING	730.0	1.0	12.00	
SHORELINE	12.0	1.0	0.00	
SWIMMING	12.0	1.0	0.00	
BOATING	12.0	1.0	0.00	

\* \* \* ISOTOPE CONTRIBUTION \* \* \*

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		CS 137 63%	CS 137 50%	CS 137 44%	I 131 94%	CS 137 51%	CS 137 51%	CS 137 14%
		CS 134 35%	CS 134 49%	CS 134 54%	I 133 3%	CS 134 47%	CS 134 47%	NB 95 65%
					H 3 2%			CS 134 13%
								CO 58 1%
								ZN 65 1%
DRINKING								H 3 1%
		I 131 1%	CS 137 16%	CS 137 12%	I 131 65%	CS 137 7%	CS 137 2%	CO 58 1%
		BA 140 1%	CS 134 16%	CS 134 14%	I 133 3%	CS 134 6%	CS 134 2%	H 3 93%
		CS 137 61%	H 3 65%	H 3 72%	H 3 31%	H 3 84%	H 3 94%	
SHORELINE		CS 134 34%						
	CS 137 60%	CS 137 60%						
	CS 134 29%	CS 134 29%						
	CO 58 1%	CO 58 1%						
SWIM M	CO 60 8%	CO 60 8%						
		MO 99 1%						
		I 131 6%						
		I 133 2%						
		CS 137 17%						
		ZR 95 1%						
		CS 134 37%						
		CO 58 18%						
		CS 136 2%						
		CO 60 5%						
		SB 124 1%						

TABLE VI-C-7

LOCATION IS SITE DISCHG.

TEENAGER DOSES

	DOSE (MREM PER .5YR INTAKE)							
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		3.43E-01	5.91E-01	2.42E-01	1.61E-02	1.50E-01	7.51E-02	2.52E-02
DRINKING		5.63E-03	2.07E-02	1.51E-02	4.67E-02	1.66E-02	1.23E-02	1.19E-02
SHORELINE	2.21E-03	1.89E-03	1.89E-03	1.89E-03	1.89E-03	1.89E-03	1.89E-03	1.89E-03
SWIMMING	0.00E+00	2.41E-05	2.41E-05	2.41E-05	2.41E-05	2.41E-05	2.41E-05	2.41E-05
BOATING	0.00E+00	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05	1.20E-05
TOTAL	2.21E-03	3.50E-01	6.14E-01	2.59E-01	6.48E-02	1.69E-01	8.93E-02	3.90E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	16.0	1.0	24.00	
DRINKING	510.0	1.0	12.00	
SHORELINE	67.0	1.0	0.00	
SWIMMING	67.0	1.0	0.00	
BOATING	67.0	1.0	0.00	

\* \* \* ISOTOPE CONTRIBUTION \* \* \*

PATHWAY	SKIN		BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI	
FISH			CS 137	64%	CS 137	50%	CS 137	43%	I 131	94%	CS 137	51%	CS 137	52%	CS 137	15%
			CS 134	35%	CS 134	49%	CS 134	56%	I 133	3%	CS 134	47%	CS 134	46%	NB 95	63%
									H 3	1%					CS 134	13%
															CO 58	1%
DRINKING															ZN 65	2%
															H 3	1%
			I 131	1%	CS 137	22%	CS 137	11%	I 131	72%	CS 137	7%	CS 137	5%	CO 58	2%
			BA 140	1%	CS 134	22%	CS 134	14%	I 133	3%	CS 134	6%	CS 134	4%	H 3	93%
SHORELINE			CS 137	62%	H 3	53%	H 3	73%	H 3	23%	H 3	84%	H 3	90%		
			CS 134	34%												
			CS 137	60%	CS 137	60%										
			CS 134	29%	CS 134	29%										
SWIM M			CO 58	1%	CO 58	1%										
			CO 60	8%	CO 60	8%										
			MO 99	1%												
			I 131	6%												
			I 133	2%												
			CS 137	17%												
			ZR 95	1%												
			CS 134	37%												
			CO 58	18%												
			CS 136	2%												
			CO 60	5%												
			SB 124	1%												

TABLE VI-C-8

LOCATION IS SITE DISCHG.

C H I L D D O S E S

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		4.23E-01	5.14E-01	9.29E-02	1.67E-02	6.49E-02	5.89E-02	9.44E-03
DRINKING		1.61E-02	4.06E-02	2.51E-02	1.07E-01	1.66E-02	2.35E-02	2.20E-02
SHORELINE	4.62E-01	3.96E-04	3.96E-04	3.96E-04	3.96E-04	3.96E-04	3.96E-04	3.96E-04
SWIMMING	0.00E+00	5.03E-06	5.03E-06	5.03E-06	5.03E-06	5.03E-06	5.03E-06	5.03E-06
BOATING	0.00E+00	2.52E-06	2.52E-06	2.52E-06	2.52E-06	2.52E-06	2.52E-06	2.52E-06
TOTAL	4.62E-04	4.40E-01	5.55E-01	1.18E-01	1.24E-01	8.19E-02	8.28E-02	3.18E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	6.9	1.0	24.00	
DRINKING	510.0	1.0	12.00	
SHORELINE	14.0	1.0	0.00	
SWIMMING	14.0	1.0	0.00	
BOATING	14.0	1.0	0.00	

\* \* \* ISOTOPE CONTRIBUTION \* \* \*

PATHWAY	SKIN		BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI		
FISH			CS 137	65%	CS 137	52%	CS 137	43%	I 131	94%	CS 137	51%	CS 137	53%	CS 137	17%	
			CS 134	34%	CS 134	47%	CS 134	55%	I 133	4%	CS 134	47%	CS 134	45%	NB 95	59%	
									H 3	1%					CS 134	13%	
															CO 58	1%	
															ZN 65	2%	
															H 3	2%	
DRINKING			I 131	1%	CS 137	24%	CS 137	5%	I 131	75%	CS 137	7%	CS 137	4%	H 3	96%	
			BA 140	1%	CS 134	22%	CS 134	7%	I 133	4%	CS 134	6%	CS 134	4%			
			CS 137	63%	H 3	52%	H 3	84%	H 3	19%	H 3	84%	H 3	90%			
			CS 134	33%													
SHORELINE		CS 137	60%	CS 137	60%												
		CS 134	29%	CS 134	29%												
		CO 58	1%	CO 58	1%												
		CO 60	8%	CO 60	8%												
SWIM M			MO 99	1%													
			I 131	6%													
			I 133	2%													
			CS 137	17%													
			ZR 95	1%													
			CS 134	37%													
			CO 58	18%													
			CS 136	2%													
			CO 60	5%													
			SB 124	1%													

TABLE VI-C-9



LOCATION IS SITE DISCHG.

I N F A N T   D O S E S								
	DOSE (MREM PER .5YR INTAKE)							
PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DRINKING		3.35E-02	7.68E-02	3.59E-02	2.40E-01	1.66E-02	3.74E-02	3.29E-02
SHORELINE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	3.35E-02	7.68E-02	3.59E-02	2.40E-01	1.66E-02	3.74E-02	3.29E-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		I 131 1%	CS 137 31%	CS 137 3%	I 131 81%	CS 137 7%	CS 137 7%	H 3 97%
		BA 140 1%	CS 134 25%	CS 134 4%	I 133 5%	CS 134 6%	CS 134 6%	
		CS 137 64%	H 3 41%	H 3 89%	H 3 13%	H 3 84%	H 3 86%	
		CS 134 32%						

TABLE VI-C-10

\* \* \* 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	1.26E-01	2.19E-01	1.61E-01	4.01E-03	7.32E-02	2.42E-02	1.32E-02
FISH	TEENAGER	9.29E+03	2.67E-02	4.60E-02	1.88E-02	7.35E-04	1.17E-02	5.85E-03	1.82E-03
FISH	CHILD	5.61E+03	4.63E-02	5.61E-02	1.01E-02	1.05E-03	7.07E-03	6.44E-03	9.59E-04
FISH	TOTAL	7.30E+04	1.99E-01	3.21E-01	1.90E-01	5.80E-03	9.20E-02	3.65E-02	1.59E-02

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	CS 137	63%	CS 137	50%	CS 137	44%	I 131	95%	CS 137	51%	CS 137	51%	CS 137	16%
	CS 134	35%	CS 134	49%	CS 134	54%	H 3	4%	CS 134	47%	CS 134	47%	NB 95	62%
													CS 134	14%
													CO 58	1%
													ZN 65	1%
													H 3	1%
TEENAGER	CS 137	64%	CS 137	50%	CS 137	43%	I 131	96%	CS 137	51%	CS 137	52%	CS 137	17%
	CS 134	35%	CS 134	49%	CS 134	55%	H 3	3%	CS 134	47%	CS 134	46%	NB 95	61%
													CS 134	14%
													CO 58	1%
													ZN 65	2%
													H 3	1%
CHILD	CS 137	65%	CS 137	52%	CS 137	43%	I 131	97%	CS 137	51%	CS 137	53%	CS 137	18%
	CS 134	34%	CS 134	47%	CS 134	55%	H 3	2%	CS 134	47%	CS 134	45%	NB 95	50%
													CS 134	14%
													CO 58	1%
													ZN 65	2%
													H 3	2%

TABLE VI-D-1

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

COMMERCIAL HARVEST

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

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	3.81E+06	1.37E-02	2.38E-02	1.75E-02	3.41E-04	7.94E-03	2.63E-03	1.38E-03
FISH	TEENAGER	6.09E+05	2.90E-03	5.00E-03	2.04E-03	6.23E-05	1.27E-03	6.35E-04	1.90E-04
FISH	CHILD	3.68E+05	5.02E-03	6.09E-03	1.10E-03	8.92E-05	7.68E-04	6.99E-04	1.01E-04
FISH	TOTAL	4.78E+06	2.16E-02	3.49E-02	2.06E-02	4.93E-04	9.98E-03	3.97E-03	1.67E-03

DILUTION CATCH TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 2.40E+02 HR POPULATION=8.36E+05  
7.30E+00 7.30E+04 2.41E+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	CS 137	64%	CS 137	50%	CS 137	44%	I 131	93%	CS 137	51%	CS 137	51%	CS 137	16%
	CS 134	35%	CS 134	49%	CS 134	54%	H 3	6%	CS 134	47%	CS 134	47%	NB 95	61%
													CS 134	14%
													CO 58	1%
													ZN 65	2%
													H 3	1%
TEENAGER	CS 137	64%	CS 137	50%	CS 137	43%	I 131	95%	CS 137	51%	CS 137	52%	CS 137	17%
	CS 134	35%	CS 134	48%	CS 134	55%	H 3	4%	CS 134	47%	CS 134	46%	NB 95	60%
													CS 134	14%
													CO 58	1%
													ZN 65	2%
													H 3	1%
CHILD	CS 137	65%	CS 137	52%	CS 137	43%	I 131	96%	CS 137	51%	CS 137	53%	CS 137	19%
	CS 134	33%	CS 134	47%	CS 134	55%	H 3	3%	CS 134	47%	CS 134	45%	NB 95	55%
													CS 134	15%
													CO 58	1%
													ZN 65	2%
													H 3	3%

NEPA DOSES

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

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

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	5.81E+04	1.26E-01	2.19E-01	1.61E-01	3.14E-03	7.31E-02	2.42E-02	1.27E-02
FISH	TEENAGER	9.29E+03	2.67E-02	4.59E-02	1.88E-02	5.73E-04	1.17E-02	5.84E-03	1.75E-03
FISH	CHILD	5.61E+03	4.62E-02	5.60E-02	1.01E-02	8.21E-04	7.06E-03	6.43E-03	9.25E-04
FISH	TOTAL	7.30E+04	1.99E-01	3.21E-01	1.90E-01	4.53E-03	9.18E-02	3.65E-02	1.53E-02

TABLE VI-D-2

-----DOSE (MAN-REM)-----																					
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI												
DRINKING	ADULT	1.29E+06	3.49E-02	1.75E-01	1.60E-01	3.45E-01	1.37E-01	1.22E-01	1.23E-01												
DRINKING	TEENAGER	1.93E+07	6.88E-03	2.54E-02	1.85E-02	5.36E-02	2.04E-02	1.51E-02	1.45E-02												
DRINKING	CHILD	2.75E+07	2.82E-02	7.11E-02	4.39E-02	1.75E-01	2.91E-02	4.11E-02	3.84E-02												
DRINKING	TOTAL	1.76E+08	6.99E-02	2.72E-01	2.22E-01	5.74E-01	1.86E-01	1.78E-01	1.76E-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		CHI=2.60E+02														
*   *   *   ISOTOPE CONTRIBUTION   *   *   *																					
AGE GROUP			BONE			LIVER			TOTAL BODY			THYROID			KIDNEY			LUNG			GI-LLI
ADULT	I	131	1%	CS	137	16%	CS	137	12%	I	131	64%	CS	137	7%	CS	137	2%	CO	58	1%
	BA	140	1%	CS	134	16%	CS	134	14%	I	133	1%	CS	134	6%	CS	134	2%	H	3	93%
	CS	137	62%	H	3	65%	H	3	72%	H	3	33%	H	3	84%	H	3	94%			
	CS	134	34%																		
TEENAGER	I	131	1%	CS	137	22%	CS	137	11%	I	131	72%	CS	137	7%	CS	137	5%	CO	58	2%
	BA	140	1%	CS	134	22%	CS	134	14%	I	133	2%	CS	134	6%	CS	134	4%	H	3	93%
	CS	137	62%	H	3	53%	H	3	73%	H	3	25%	H	3	84%	H	3	90%			
	CS	134	34%																		
CHILD	I	131	1%	CS	137	24%	CS	137	5%	I	131	75%	CS	137	7%	CS	137	4%	H	3	96%
	BA	140	1%	CS	134	22%	CS	134	7%	I	133	2%	CS	134	6%	CS	134	4%			
	CS	137	63%	H	3	52%	H	3	85%	H	3	21%	H	3	84%	H	3	90%			
	CS	134	33%																		

-----DOSE (MAN-REM)-----																					
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI												
DRINKING	ADULT	2.12E+07	5.64E-03	2.84E-02	2.58E-02	5.58E-02	2.21E-02	1.98E-02	1.99E-02												
DRINKING	TEENAGER	3.17E+06	1.11E-03	4.10E-03	3.00E-03	8.67E-03	3.30E-03	2.44E-03	2.35E-03												
DRINKING	CHILD	4.52E+06	4.56E-03	1.15E-02	7.10E-03	2.82E-02	4.71E-03	6.65E-03	6.22E-03												
DRINKING	TOTAL	2.89E+07	1.13E-02	4.40E-02	3.59E-02	9.27E-02	3.01E-02	2.88E-02	2.85E-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	I	131	1%	CS	137	16%	CS	137	12%	I	131	64%	CS	137	7%	CS	137	2%	CO	58	1%
	BA	140	1%	CS	134	16%	CS	134	14%	I	133	1%	CS	134	6%	CS	134	2%	H	3	93%
	CS	137	62%	H	3	65%	H	3	72%	H	3	33%	H	3	84%	H	3	94%			
	CS	134	34%																		

TABLE VI-D-3

## TEENAGE

I 131	1%	CS 137	22%	CS 137	11%	I 131	72%	CS 137	7%	CS 137	5%	CO 58	2%
BA 140	1%	CS 134	22%	CS 134	14%	I 133	2%	CS 134	6%	CS 134	4%	H 3	93%
CS 137	62%	H 3	53%	H 3	73%	H 3	25%	H 3	84%	H 3	90%		
CS 134	34%												

## CHILD

I 131	1%	CS 137	24%	CS 137	5%	I 131	75%	CS 137	7%	CS 137	4%	H 3	96%
BA 140	1%	CS 134	22%	CS 134	7%	I 133	2%	CS 134	6%	CS 134	4%		
CS 137	63%	H 3	52%	H 3	85%	H 3	21%	H 3	84%	H 3	90%		
CS 134	33%												

## -----CUMULATIVE TOTAL-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	CUMUL TOTAL	2.05E+08	8.12E-02	3.16E-01	2.58E-01	6.66E-01	2.16E-01	2.07E-01	2.04E-01

## HYDROSPHERE TRITIUM DOSE

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
WATER		2.20E+00	1.19E-08	1.19E-08	1.19E-08	1.19E-08	1.19E-08	1.19E-08	1.19E-08

TABLE VI-D-4

\* \* \* RECREATION POPULATION DOSES \* \* \*

		DOSE(MAN-REM)			
PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SHORELINE	TOTAL POPUL	4.10E+07	1.85E-01	1.59E-01	1.59E-01

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 60%	CS 137 60%
	CS 134 29%	CS 134 29%
	CO 58 1%	CO 58 1%
	CO 60 8%	CO 60 8%

		DOSE(MAN-REM)			
PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SWIMMING	TOTAL POPUL	4.10E+07	0.00E+00	2.02E-03	2.02E-03

LOCATION- DOWN STREAM

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

\* \* \* ISOTOPE CONTRIBUTION \* \* \*

AGE GROUP	SKIN	TOTAL BODY
ADULT		
	MO 99 1%	
	I 131 6%	
	I 133 2%	
	CS 137 18%	
	ZR 95 1%	
	CS 134 37%	
	CO 58 18%	
	CS 136 2%	
	CO 60 5%	
	SB 124 1%	

		DOSE(MAN-REM)			
PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
BOATING	TOTAL POPUL	4.10E+07	0.00E+00	1.01E-03	1.01E-03

LOCATION- DOWN STREAM

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

TABLE VI-D-5



\* DOSE TO BIOTA \*

MRADS PER .5YR

ILUTION= 1.00E+00 TRANSIT TIME= 0.00E+00 HR

	INTERNAL	EXTERNAL	TOTAL
FISH	1.25E+00	1.24E+00	2.49E+00
INVERTEBRATE	2.83E-01	2.48E+00	2.76E+00
ALGAE	5.75E-01	3.15E-03	5.78E-01
MUSKRAT	6.88E+00	8.27E-01	7.71E+00
RACCOON	3.18E-01	6.19E-01	9.37E-01
HERON	4.05E+01	8.26E-01	4.13E+01
DUCK	5.98E+00	1.24E+00	7.22E+00

\* ISOTOPE CONTRIBUTION \*

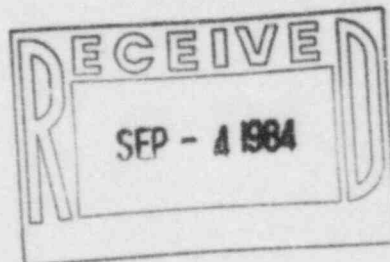
PATHWAY	BODY			
FISH	CS 137	51%	HERON	CS 137 50%
	NB 95	7%		CS 134 48%
	CS 134	36%	DUCK	CS 137 53%
	CS 136	1%		CS 134 42%
	H 3	1%		ZN 65 2%
INVERTEBRATE	CE 141	2%		
	BA 140	2%		
	CS 137	11%		
	CS 134	8%		
	CO 58	4%		
	MN 54	46%		
	FE 59	6%		
	ZN 65	4%		
	CO 60	1%		
	LA 140	3%		
	H 3	7%		
ALGAE	MO 99	10%		
	CE 141	5%		
	BA 140	2%		
	RU 1	1%		
	CS 137	28%		
	ZR 95	2%		
	CS 134	19%		
	CO 58	2%		
	MN 54	2%		
	ZN 65	4%		
	LA 140	8%		
	SB 124	2%		
	H 3	3%		
MUSKRAT	CS 137	51%		
	CS 134	44%		
	ZN 65	2%		
RACCOON	CS 137	41%		
	CS 134	39%		
	MN 54	7%		
	FE 59	1%		
	ZN 65	7%		
	H 3	1%		

TABLE VI-D-6

Omaha Public Power District  
1623 Harney Omaha, Nebraska 68102  
402/536-4000

August 30, 1984  
LIC-84-289

Mr. Richard P. Denise, Director  
Division of Resident, Reactor Project  
and Engineering Programs  
U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011



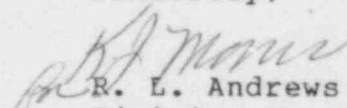
Reference: Docket No. 50-285

Dear Mr. Denise:

Fort Calhoun Station Semi-Annual Effluent  
Release and Environmental Monitoring Report

In accordance with 10 CFR 50.36a and the Fort Calhoun Station Technical Specifications, Section 5.9.4, please find enclosed one copy of a report that summarizes the Fort Calhoun Station effluent releases and environmental monitoring for the period January 1, 1984 to June 30, 1984, inclusive.

Sincerely,

  
R. L. Andrews  
Division Manager  
Nuclear Production

RLA:jmm

Enclosure

cc: Director of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555 (1)

Document Control Desk  
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University Hygienic Laboratory  
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