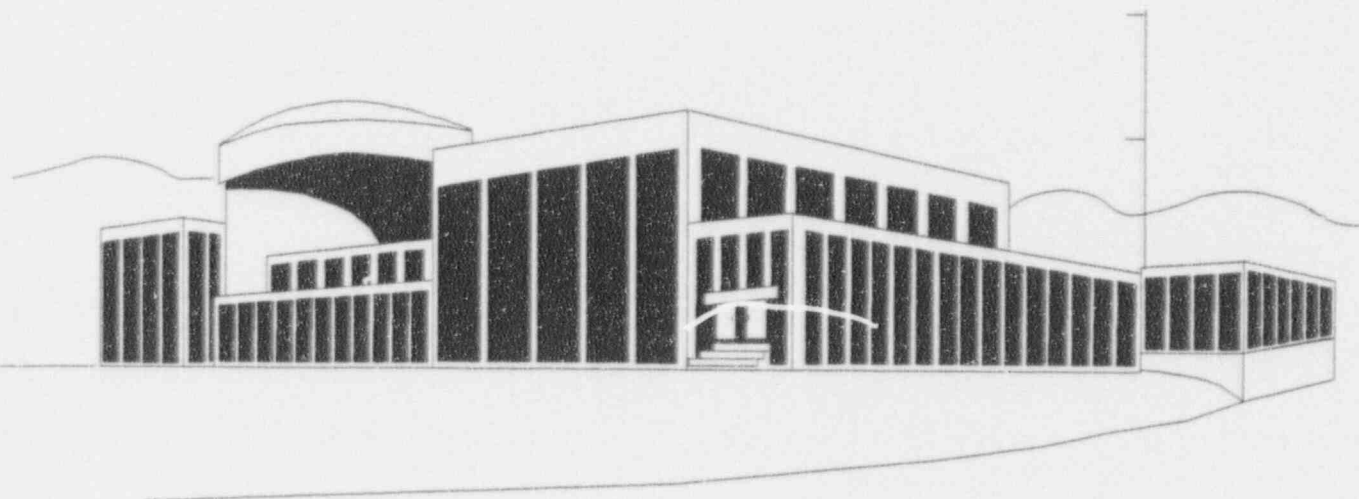


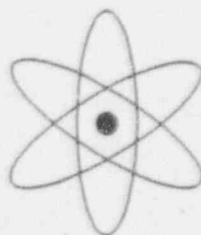
# OMAHA PUBLIC POWER DISTRICT FORT CALHOUN STATION UNIT NO.1

ANNUAL REPORT  
FOR  
TECHNICAL SPECIFICATION  
SECTION 5.9.1.B.  
AND APPENDIX B  
JANUARY 1, 1992 THROUGH  
DECEMBER 31, 1992

SEMIANNUAL REPORT  
FOR  
TECHNICAL SPECIFICATION  
SECTION 5.9.4.A.  
JULY 1, 1992 THROUGH  
DECEMBER 31, 1992  
INCLUSIVE



DOCKET NO. 50 - 285



OPERATING LICENSE DPR - 40

9302240031 930219  
PDR ADOCK 05000285  
R PDR

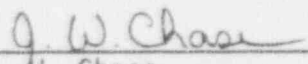
## INTRODUCTION

This report is submitted in accordance with Sections 5.9.1.b and 5.9.4.a of the Technical Specifications of Fort Calhoun Station Unit No. 1, Facility Operating License DPR-40.

This document contains the Annual Report for Technical Specification Section 5.9.1.b for the period January 1, 1992 through December 31, 1992 and the Semi-Annual Effluent Report for Technical Specification 5.9.4.a for the period July 1, 1992 through December 31, 1992. The Effluent Report is presented in the format outlined in Regulatory Guide 1.21, Revision 1.

In addition, this report provides the results of quarterly dose calculations performed in accordance with Technical Specification Sections 2.9.1(1)b and 2.9.1(2)b. Results are presented by quarter for the period July 1, 1992 through December 31, 1992.

Further, description of any changes made during the preceding six months to the Offsite Dose Calculation Manual and/or the Process Control Program for the Fort Calhoun Station are presented.

  
\_\_\_\_\_  
J. W. Chase  
Manager - Fort Calhoun Station



## TABLE OF CONTENTS

<u>Section</u>	<u>Section Title</u>
	INTRODUCTION
I	Quarterly Doses from Effluents Technical Specifications [2.9.1(1)b and 2.9.1(2)b]
II	Annual Occupational Exposure Report Technical Specification (5.9.1.b)
III	Radioactive Effluent Releases-Gaseous Effluents Technical Specification (5.9.4.a)  Table 1A Summation of Releases Table 1B Not Applicable Table 1C Summation of All Releases
IV	Radioactive Effluent Releases-Liquid Effluents Technical Specification (5.9.4.a)  Table 2A Summation of All Releases Table 2B Summation of All Releases
V	Radioactive Effluent Releases-Solid Radioactive Waste Offsite Dose Calculation Manual (ODCM) and Process Control Program (PCP) Revisions Technical Specification (5.9.4.a)
VI	Joint Frequency Distribution Wind Direction vs. Wind Speed by Stability Class and Meteorological Data Per Batch Release (Regulatory Guide 1.21)
VII	Potential Doses to Individuals and Populations (Regulatory Guide 1.21)

SECTION 1

QUARTERLY DOSES FROM EFFLUENTS

Technical Specifications 2.9.1(1)b and 2.9.1(2)b

July 1, 1992 - December 31, 1992

Quarterly Dose Calculation Results  
July 1, 1992 thru December 31, 1992

With the implementation of the Fort Calhoun Station Radiological Effluent Technical Specifications (RETS) on October 1, 1985, radiation doses in the unrestricted area from liquid and gaseous effluents must be calculated on a quarterly basis in accordance with Sections 2.9.1(1)b and 2.9.1(2)b. These calculations are performed to ensure the annual dose limits delineated in Appendix I of 10 CFR Part 50 and implemented by the RETS are not exceeded. If the results of the quarterly calculations exceed fifty percent (50%) of the annual limits of Appendix I, actions are taken to reduce effluents so that resultant doses do not exceed the annual limits during the remainder of the year and a special report is submitted to the NRC.

This section presents the results of the quarterly dose calculations performed since July 1, 1992. Details are shown in Tables on Pages I-3 through I-4 as to the types, sources and resultant doses from the effluents, annual limits and a comparison to the annual limits.

As indicated by the quarterly calculation results, OPPD is in compliance with the referenced Technical Specifications. The quarterly totals are well below the 50% annual dose acceptance criteria. In addition, the summation of the quarterly totals shows OPPD to be less than the annual limits and in compliance with the regulations and Technical Specifications.

# QUARTERLY CUMULATIVE DOSE CONTRIBUTIONS FROM RADIOACTIVE EFFLUENTS

THIRD QUARTER, 1992

<u>I. LIQUID EFFLUENTS:</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (mREM)</u>
Monitor/Hotel Tank:	5.56E-03	7.62E-03
Steam Generator:	<u>1.51E-04</u>	<u>2.30E-04</u>
Totals:	5.71E-03	7.85E-03
T.S. 2.9.1 A. Annual Objective:	3.00E+00	1.00E+01
<u>Percent of TS Annual Objective:</u>		
This Quarter:	0.19%	0.08%
Year to Date:	4.33%	1.78%
<u>II. GASEOUS EFFLUENTS:</u>	<u>TOTAL BODY GAMMA DOSE (mREM)</u>	<u>TOTAL BODY BETA DOSE (mREM)</u>
A. Noble Gas Air Dose:	1.09E-03	2.25E-03
T.S. 2.9.1 B. Annual Objective:	1.00E+01	2.00E+01
<u>Percent of TS Annual Objective:</u>		
This Quarter:	0.01%	0.01%
Year to Date:	0.09%	0.12%
B. <u>I-131, H-3, and Particulates with Half-Lives &gt; 8 Days</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (Thyroid, mREM)</u>
*Inhalation:	4.72E-05	5.80E-05
*Ground and Food:	<u>1.20E-05</u>	<u>2.30E-03</u>
Totals:	5.92E-05	2.36E-03
T.S. 2.9.1.B. Annual Objective:	1.50E+01	1.50E+01
<u>Percent of TS Annual Objective:</u>		
This Quarter:	0.00%	0.02%
Year to Date:	0.00%	0.53%

\* Using Highest of Infant or Child Dose Factors

# QUARTERLY CUMULATIVE DOSE CONTRIBUTIONS FROM RADIOACTIVE EFFLUENTS\*\*

FOURTH QUARTER, 1992

<u>I. LIQUID EFFLUENTS:</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (mREM)</u>
Monitor/Hotel Tank:	5.55E-03	7.83E-03
Steam Generator:	1.79E-07	1.79E-07
Totals:	5.55E-03	7.83E-03
T.S. 2.9.1.A. Annual Objective:	3.00E+00	1.00E+01
<u>Percent of TS Annual Objective:</u>		
This Quarter:	0.18%	0.08%
Year to Date:	4.51%	1.86%
<u>II. GASEOUS EFFLUENTS:</u>	<u>TOTAL BODY GAMMA DOSE (mREM)</u>	<u>TOTAL BODY BETA DOSE (mREM)</u>
A. Noble Gas Air Dose:	8.16E-04	5.21E-04
T.S. 2.9.1.B. Annual Objective:	1.00E+01	2.00E+01
<u>Percent of TS Annual Objective:</u>		
This Quarter:	0.01%	0.00%
Year to Date:	0.10%	0.12%
B. <u>I-131, H-3, and Particulates with Half-Lives &gt; 8 Days</u>	<u>TOTAL BODY DOSE (mREM)</u>	<u>CRITICAL ORGAN DOSE (Thyroid, mREM)</u>
*Inhalation:	3.99E-06	3.98E-06
*Ground and Food:	8.09E-06	0.00E+00
Totals:	1.21E-05	3.98E-06
T.S. 2.9.1.B. Annual Objective:	1.50E+01	1.50E+01
<u>Percent of TS Annual Objective:</u>		
This Quarter:	0.00%	0.00%
Year to Date:	0.00%	0.53%

\* Highest of Infant or Child Dose Factors.

\*\* Strontium 89 and Strontium 90 dose contributions not included because results were not available at the time of this report. Values will be updated when results are received from the vendor.

SECTION II  
ANNUAL OCCUPATIONAL EXPOSURE REPORT

Technical Specification 5.9.1.b

January 1, 1992 through December 31, 1992



USNRC ANNUAL  
REG GUIDE 1.16 REPORT  
OMAHA PUBLIC POWER DISTRICT - NRC LICENSE: DPR-40  
P.O. Box 399  
Ft. Calhoun, NE 68023-0399

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (>100.0 MREM)					TOTAL MAN-REM		
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS & OTHERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS & OTHERS		
<b>REACTION OPERATIONS &amp; SURVEILLANCE</b>								
MAINTENANCE PERSONNEL	3,582	2,069	1,552	2,300	1,422		0,595	
OPERATING PERSONNEL	29,731	0,000	0,000	10,065	0,000		0,000	
HEALTH PHYSICS PERSONNEL	10,402	0,000	17,237	8,538	0,000		9,397	
SUPERVISORY PERSONNEL	2,325	0,000	0,000	0,820	0,000		0,000	
ENGINEERING PERSONNEL	6,539	0,000	6,876	3,314	0,000		27,235	
<b>ROUTINE MAINTENANCE</b>								
MAINTENANCE PERSONNEL	10,403	10,060	26,604	9,317	6,040		13,055	
OPERATING PERSONNEL	0,815	0,000	0,000	0,310	0,000		0,000	
HEALTH PHYSICS PERSONNEL	3,950	0,000	23,687	1,868	0,000		11,789	
SUPERVISORY PERSONNEL	3,274	0,000	0,000	0,478	0,000		0,000	
ENGINEERING PERSONNEL	6,875	0,014	6,680	1,890	0,005		2,180	
<b>INSERVICE INSPECTION</b>								
MAINTENANCE PERSONNEL	3,911	2,307	17,333	1,720	1,375		7,381	
OPERATING PERSONNEL	0,219	0,000	0,000	0,055	0,000		0,000	
HEALTH PHYSICS PERSONNEL	0,749	0,000	7,394	1,110	0,000		6,641	
SUPERVISORY PERSONNEL	0,000	0,000	0,000	0,000	0,000		0,000	
ENGINEERING PERSONNEL	4,291	0,000	23,899	1,500	0,000		25,505	
<b>SPECIAL MAINTENANCE</b>								
MAINTENANCE PERSONNEL	22,409	13,613	55,483	13,838	7,915		32,651	
OPERATING PERSONNEL	2,081	0,000	0,000	0,780	0,000		0,000	
HEALTH PHYSICS PERSONNEL	4,639	0,000	16,620	4,879	0,000		8,649	
SUPERVISORY PERSONNEL	0,358	0,000	0,000	0,140	0,000		0,000	
ENGINEERING PERSONNEL	5,018	0,000	7,978	2,400	0,000		2,148	
<b>WASTE PROCESSING</b>								
MAINTENANCE PERSONNEL	0,605	0,541	0,180	0,350	0,803		0,050	
OPERATING PERSONNEL	1,284	0,000	0,000	0,360	0,000		0,000	
HEALTH PHYSICS PERSONNEL	7,050	0,000	6,371	8,373	0,000		2,798	
SUPERVISORY PERSONNEL	0,316	0,000	0,000	0,045	0,000		0,000	
ENGINEERING PERSONNEL	0,000	0,000	0,005	0,000	0,000		0,005	
<b>REFUELING</b>								
MAINTENANCE PERSONNEL	21,480	23,044	15,228	13,660	15,331		12,056	
OPERATING PERSONNEL	4,897	0,000	0,000	1,119	0,000		0,000	
HEALTH PHYSICS PERSONNEL	1,210	0,000	7,571	1,295	0,000		5,232	
SUPERVISORY PERSONNEL	0,726	0,000	0,000	0,425	0,000		0,000	
ENGINEERING PERSONNEL	3,945	0,986	3,768	2,715	0,340		1,185	
<b>TOTALS</b>								
MAINTENANCE PERSONNEL	70,389	51,935	116,360	41,185	32,886		65,688	
OPERATING PERSONNEL	39,026	0,000	0,000	12,689	0,000		0,000	
HEALTH PHYSICS PERSONNEL	28,000	0,000	76,880	26,063	0,000		42,506	
SUPERVISORY PERSONNEL	7,000	0,000	0,000	1,908	0,000		0,000	
ENGINEERING PERSONNEL	26,668	1,000	49,205	11,819	0,345		58,258	
<b>GRAND TOTALS</b>	<b>171</b>	<b>53</b>	<b>242</b>	<b>93,664</b>	<b>33,233</b>		<b>166,452</b>	

NOTE: THIS DATA IS COMPILED THROUGH SELF READING DOSIMETER MEASUREMENTS. THE OFFICIAL STATION TOTAL EXPOSURE FOR 1992 RECORDED BY TLD MEASUREMENTS IS 255.617 PERSON REMS.

ANNUAL OCCUPATIONAL RADIATION EXPOSURE 10CFR20 REPORT  
PERSONNEL WHOLE BODY EXPOSURE FOR CALENDAR YEAR 1992  
P.O. Box 399

Ft. Calhoun, NE 68023-0399

-----  
OMAHA PUBLIC POWER DISTRICT - NRC LICENSE: DPR-40  
-----

ANNUAL DOSE RANGES \*  
(REM)

NUMBER OF INDIVIDUALS  
IN EACH RANGE

NO MEASURABLE EXPOSURE	693
MEASURABLE EXPOSURE < 0.100	285
0.10 - 0.25	156
0.25 - 0.50	158
0.50 - 0.75	114
0.75 - 1.00	54
1.00 - 2.00	35
2.00 - 3.00	0
3.00 - 4.00	0
4.00 - 5.00	0
5.00 - 6.00	0
6.00 - 7.00	0
7.00 - 8.00	0
8.00 - 9.00	0
9.00 - 10.00	0
10.00 - 11.00	0
11.00 - 12.00	0
12 +	0

-----  
TOTAL NUMBER OF INDIVIDUALS REPORTED:

1495  
-----

The above information is submitted for:

(1) - The total number of individuals for whom  
personnel monitoring was required under  
10CFR 20.202(a) or 10CFR 34.33(a)  
during the calendar year,

OR (2) - The total number of individuals for whom  
personnel monitoring was provided during  
the calendar year including (1) above.

\* Individual values exactly equal to the values separating  
exposure ranges are reported in the higher range.

### SECTION III

#### RADIOACTIVE EFFLUENT RELEASES - GASEOUS EFFLUENTS

##### Technical Specification 5.9.4.a

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

July 1, 1992 - December 31, 1992

## Radioactive Effluent Releases - Third and Fourth Quarters

### GASEOUS EFFLUENTS

Radioactive gaseous releases for the reporting period totaled  $1.45\text{E}+01$  Curies of inert gases. Over the third and fourth quarters of the reporting period, the gross gaseous activity release rates were  $1.60\text{E}+00$   $\mu\text{Ci/sec}$  and  $2.19\text{E}-01$   $\mu\text{Ci/Sec}$ , respectively.

Radioactive halogens and particulates with half-lives greater than eight days released during the reporting period totaled  $1.00\text{E}-05$  Curies. Over the third and fourth quarters of the reporting period, the halogen release rates were  $1.08\text{E}-06$   $\mu\text{Ci/sec}$  and  $0.00\text{E}-00$   $\mu\text{Ci/sec}$ , respectively. The release rate for particulates with half lives greater than 8 days during the third and fourth quarters were  $6.90\text{E}-06$   $\mu\text{Ci/sec}$  and  $1.18\text{E}-07$   $\mu\text{Ci/sec}$ , respectively.

Total radioactive tritium released during the reporting period totaled  $2.29\text{E}+00$  Curies. Gross alpha radioactivity released during the reporting period totaled  $7.55\text{E}-06$  Curies.

TABLE 1A

## EFFLUENT AND WASTE DISPOSAL REPORT

## GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JULY THRU DEC 92											
3 QUARTER					4 QUARTER						
NUCLIDES IN CURIES		CONT	DECAY	RM060	RM041	TOTAL	CONT	DECAY	RM060	RM041	TOTAL
A. FISSION&ACTIVATION GASES											
TOTAL RELEASE		CI	1.27E+01	7.47E-02	0.00E+00	0.00E+00	1.27E+01	1.74E+00	4.77E-03	0.00E+00	1.74E+00
AVG RELEASE RATE FOR PERIOD		UCI/SEC	1.59E+00	9.40E-03	0.00E+00	0.00E+00	1.60E+00	2.19E-01	5.00E-04	0.00E+00	2.19E-01
PERCENT OF LIMIT TECH SPEC = NONE		%									
B. IODINES											
TOTAL RELEASE IODINE - 131		CI	0.00E+00	0.00E+00	8.56E-06	0.00E+00	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AVG RELEASE RATE FOR PERIOD		UCI/SEC	0.00E+00	0.00E+00	1.08E-06	0.00E+00	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERCENT OF LIMIT TECH SPEC = NONE		%									
C. PARTICULATES											
PARTICULATES WITH HALF LIVES .GT. 8 DAYS		CI	0.00E+00	0.00E+00	9.27E-09	5.39E-07	5.49E-07	0.00E+00	0.00E+00	0.00E+00	9.39E-07
AVG RELEASE RATE FOR PERIOD		UCI/SEC	0.00E+00	0.00E+00	1.17E-09	6.79E-08	6.90E-08	0.00E+00	0.00E+00	0.00E+00	1.18E-07
PERCENT OF LIMIT TECH SPEC = NONE		%									
GROSS ALPHA RADIOACTIVITY		CI	0.00E+00	0.00E+00	1.43E-06	1.79E-07	1.61E-06	0.00E+00	0.00E+00	5.85E-06	5.94E-06
D. TRITIUM											
TOTAL RELEASE		CI	2.11E+00	0.00E+00	0.00E+00	0.00E+00	2.11E+00	1.78E-01	0.00E+00	0.00E+00	1.78E-01
AVG RELEASE RATE FOR PERIOD		UCI/SEC	2.66E-01	0.00E+00	0.00E+00	0.00E+00	2.66E-01	2.24E-02	0.00E+00	0.00E+00	2.24E-02
PERCENT OF LIMIT TECH SPEC = NONE		%									

TABLE 1C

## EFFLUENT AND WASTE DISPOSAL REPORT

## GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JULY THRU DEC 92

NUCLIDES IN CURIES	3 QUARTER				4 QUARTER				TOTAL
	CONT	DECAY	RM060	RM041	CONT	DECAY	RM060	RM041	
<b>FISSION GASES</b>									
XENON-133	1.20E+01	5.97E-02	0.00E+00	0.00E+00	1.21E+01	9.24E-01	0.00E+00	0.00E+00	9.25E-01
KRYPTON-85M	7.26E-04	0.00E+00	0.00E+00	0.00E+00	7.26E-04	0.00E+00	0.00E+00	0.00E+00	1.38E-03
XENON-131M	0.00E+00	7.52E-04	0.00E+00	0.00E+00	7.52E-04	0.00E+00	0.00E+00	0.00E+00	2.57E-04
KRYPTON-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
XENON-133M	1.52E-01	0.00E+00	0.00E+00	0.00E+00	1.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
XENON-135	2.24E-01	0.00E+00	0.00E+00	0.00E+00	2.24E-01	3.61E-01	0.00E+00	0.00E+00	3.61E-01
KRYPTON-87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
XENON-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KRYPTON-85	0.00E+00	1.42E-02	0.00E+00	0.00E+00	1.42E-02	3.73E-03	0.00E+00	0.00E+00	3.73E-03
XENON-135M	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ARGON-41	2.40E-01	0.00E+00	0.00E+00	0.00E+00	2.40E-01	4.51E-01	0.00E+00	0.00E+00	4.51E-01
TOTAL FOR PERIOD	1.27E+01	7.47E-02	0.00E+00	0.00E+00	1.27E+01	4.77E-03	0.00E+00	0.00E+00	1.74E+00
<b>IODINES</b>									
IODINE-131 CTD.	0.00E+00	0.00E+00	8.56E-06	0.00E+00	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IODINE-133 CTD.	0.00E+00	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 CTD.	0.00E+00	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-132 CTD.	0.00E+00	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 FOR PERIOD	0.00E+00	0.00E+00	8.56E-06	0.00E+00	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>PARTICULATES</b>									
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	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	0.00E+00
CARBON-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IRON-55	0.00E+00	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-129	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NICKEL-63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHORUS-32	0.00E+00	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	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	0.00E+00
BARIUM-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CESIUM-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CESIUM-134	0.00E+00	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-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	0.00E+00
MANAGANESE-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	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	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	0.00E+00
LANTHANUM-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CERIUM-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CERIUM-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IRON-59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC-65	0.00E+00	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 FOR PERIOD	0.00E+00	0.00E+00	9.27E-09	5.39E-07	5.49E-07	0.00E+00	9.39E-07	0.00E+00	9.39E-07
<b>TRITIUM &amp; GROSS ALPHA</b>									
TRITIUM	2.11E+00	0.00E+00	0.00E+00	0.00E+00	2.11E+00	1.78E-01	0.00E+00	0.00E+00	1.78E-01
GROSS ALPHA	0.00E+00	0.00E+00	1.43E-06	1.79E-07	1.61E-06	0.00E+00	5.85E-06	9.11E-08	5.94E-06

Note: Lower Limit of Detection (LLD) is reported as "0.00E+00".

Yttrium-90 activity is equal to Strontium-90 (SR-90/Y-90 secular equilibrium) for the third and fourth quarters. Yttrium-90 quantities are not shown on this table, but are included in GASPAR Dose Calculations.



SECTION IV

RADIOACTIVE EFFLUENT RELEASES - LIQUID EFFLUENTS

Technical Specification (5.9.4.a)

Table 2A     Liquid Effluents - Summation of All Releases

Table 2B     Liquid Effluents - Summation of All Releases

July 1, 1992 - December 31, 1992

## Radioactive Effluent Releases - Third and Fourth Quarters

### LIQUID EFFLUENTS

During the reporting period, a total of  $1.25\text{E-}01$  Curies of radioactive liquid materials less tritium, dissolved noble gases, and alpha were released to the Missouri River at an average concentration of  $3.95\text{E-}10$   $\mu\text{Ci/ml}$ . This represents 0.39% of the limits specified in Appendix B to 10 CFR Part 20 ( $1.0\text{E-}07$   $\mu\text{Ci/ml}$ ) for unrestricted areas.  $6.68\text{E+}01$  Curies of tritium were discharged at an average diluted concentration  $2.14\text{E-}07$   $\mu\text{Ci/ml}$  or  $7.12\text{E-}03\%$  of MPC ( $3.0\text{E-}03$   $\mu\text{Ci/ml}$ ). Gross alpha radioactivity released during the reporting period totaled  $6.13\text{E-}05$  Curies.

Dilution water during the period amounted to  $3.22\text{E+}11$  liters, while radioactive liquid waste volume was  $6.84\text{E+}07$  liters.

TABLE 2A

## EFFLUENT AND WASTE DISPOSAL REPORT

## LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JULY THRU DEC 92

		3 QUARTER	4 QUARTER
A. FISSION&ACTIVATION PRODUCTS			
TOTAL RELEASE (NO			
TRITIUM,GAS,ALPHA)	CI	8.09E-02	4.45E-02
AVG DILUTED			
CONCENTRATION	UCI/ML	5.24E-10	2.65E-10
PERCENT OF LIMIT			
10 CFR 20, APP. B = 1.0E-07	%	5.24E-01	2.65E-01
B. TRITIUM			
TOTAL RELEASE	CI	5.57E+01	1.11E+01
AVG DILUTED			
CONCENTRATION	UCI/ML	3.61E-07	6.61E-08
PERCENT OF LIMIT			
10 CFR 20, APP. B = 3.0E-03	%	1.20E-02	2.20E-03
C. DISSOLVED&ENTRAINED GASES			
TOTAL RELEASE	CI	3.22E-02	4.66E-03
AVG DILUTED			
CONCENTRATION	UCI/ML	2.09E-10	2.78E-11
PERCENT OF LIMIT			
TECH SPEC = 2.0E-04 UCI/ML	%	1.04E-04	1.39E-05
D. GROSS ALPHA RADIOACTIVITY			
TOTAL RELEASE	CI	0.00E+00	6.13E-05
E. VOLUME OF WASTE RELEASE			
PRIOR TO DIL.	LITERS	2.95E+07	3.89E+07
F. VOLUME OF DILUTION WATER			
THIS PERIOD	LITERS	1.54E+11	1.68E+11

TABLE 2B

## EFFLUENT AND WASTE DISPOSAL REPORT

## LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JULY THRU DEC 92

3 QUARTER 4 QUARTER

NUCLIDES IN CURIES	CONT	BATCH	CONT	BATCH
STRONTIUM-89	6.78E-05	0.00E+00	0.00E+00	0.00E+00
STRONTIUM-90	0.00E+00	8.36E-05	0.00E+00	0.00E+00
CARBON-14	0.00E+00	2.45E-03	0.00E+00	0.00E+00
IRON-55	0.00E+00	2.62E-03	0.00E+00	0.00E+00
IODINE-129	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NICKEL-63	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHORUS-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COBALT-57	0.00E+00	1.94E-05	0.00E+00	2.77E-05
MOLYBDENUM-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TECHNETIUM-99M	0.00E+00	5.73E-05	0.00E+00	9.87E-07
CERIUM-141	0.00E+00	0.00E+00	0.00E+00	5.16E-05
TIN-117M	0.00E+00	1.37E-05	0.00E+00	0.00E+00
CHROMIUM-51	0.00E+00	5.00E-03	0.00E+00	5.81E-03
IODINE-131	0.00E+00	1.15E-04	0.00E+00	3.53E-05
IODINE-133	0.00E+00	2.05E-06	0.00E+00	0.00E+00
BARIUM-140	0.00E+00	5.35E-03	0.00E+00	0.00E+00
RUTHENIUM-103	0.00E+00	8.66E-05	0.00E+00	2.22E-04
CESIUM-137	3.48E-05	8.30E-04	0.00E+00	6.34E-04
ZIRCONIUM-95	0.00E+00	1.12E-03	0.00E+00	4.51E-03
NIOBIUM-95	0.00E+00	1.47E-03	0.00E+00	7.19E-03
CESIUM-134	0.00E+00	1.41E-04	0.00E+00	2.38E-04
COBALT-58	0.00E+00	2.12E-02	0.00E+00	6.49E-03
MANGANESE-54	0.00E+00	2.11E-04	0.00E+00	4.75E-04
CESIUM-136	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IRON-59	0.00E+00	8.26E-05	0.00E+00	7.61E-05
ZINC-65	0.00E+00	9.05E-06	0.00E+00	4.27E-05
COBALT-60	0.00E+00	2.52E-03	0.00E+00	5.25E-03
LANTHANUM-140	0.00E+00	3.19E-03	0.00E+00	1.74E-05
ANTIMONY-124	0.00E+00	2.93E-03	0.00E+00	1.70E-04
CERIUM-144	0.00E+00	9.78E-05	0.00E+00	4.23E-04
ANTIMONY-125	0.00E+00	2.91E-02	0.00E+00	4.46E-03
SILVER-110M	0.00E+00	1.66E-03	0.00E+00	5.44E-03
BROMINE-82	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KRYPTON-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RHODIUM-103M	0.00E+00	8.66E-05	0.00E+00	2.22E-04
TIN-113	0.00E+00	6.18E-05	0.00E+00	2.19E-04
ANTIMONY-122	0.00E+00	5.87E-06	0.00E+00	0.00E+00
IODINE-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TELLURIUM-132	0.00E+00	7.03E-06	0.00E+00	0.00E+00
THORIUM-234	6.39E-05	0.00E+00	0.00E+00	0.00E+00
RUTHENIUM-106	0.00E+00	0.00E+00	0.00E+00	9.70E-04
SELENIUM-75	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY-126	0.00E+00	8.00E-06	0.00E+00	0.00E+00
BERYLLIUM-7	0.00E+00	1.76E-04	0.00E+00	0.00E+00
RHODIUM-106	0.00E+00	0.00E+00	0.00E+00	9.70E-04
HAFNIUM-181	0.00E+00	3.55E-05	0.00E+00	1.68E-04
PRASEODYMIUM-144	0.00E+00	3.96E-05	0.00E+00	4.23E-04
TOTAL FOR PERIOD	1.66E-04	8.08E-02	0.00E+00	4.45E-02

Yttrium-90 activity is equal to Strontium-90 (SR-90/Y-90 secular equilibrium) for the third and fourth quarters. Yttrium-90 quantities are not shown on this table, but are included in LADTAP Dose Calculations.

Note: Lower Limit of Detection (LLD) is reported as "0.00E+00".

DISSOLVED GASES  
ENTRAINED GASES

TABLE 2B (Continued)

XENON-133	0.00E+00	3.20E-02	0.00E+00	4.65E-03
XENON-135	0.00E+00	7.30E-05	0.00E+00	9.01E-06
XENON-131M	0.00E+00	0.00E+00	0.00E+00	0.00E+00
XENON-133M	0.00E+00	2.06E-04	0.00E+00	0.00E+00
TOTAL FOR PERIOD	0.00E+00	3.22E-02	0.00E+00	4.66E-03
OTHER, ALPHA & TRITIUM				
ALPHA	0.00E+00	0.00E+00	0.00E+00	6.13E-05
TRITIUM	5.97E-02	5.57E+01	2.17E-02	1.11E+01
GROSS BETA/GAMMA	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL FOR PERIOD	5.97E-02	5.57E+01	2.17E-02	1.11E+01
AVG. CONC. IN UCI/ML				
ALPHA	0.00E+00	0.00E+00	0.00E+00	5.31E-11
TRITIUM	1.36E-09	2.25E-05	4.84E-10	8.45E-06

SECTION V

RADIOACTIVE EFFLUENT RELEASES - SOLID RADIOACTIVE WASTE

Technical Specification (5.9.4.a)

July 1, 1992 - December 31, 1992



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

July 1, 1992 through December 31, 1992

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

1. <u>Type of Waste</u>	<u>Month Shipped</u>	<u>Number of Shipments</u>	<u>Volume Cu. Meter</u>	<u>Curie Content</u>	<u>Est. Total % Error</u>
a. Spent resins, filter sludges, evaporator bottoms, etc.	July	0	0	0	N/A
	August	0	0	0	N/A
	September	3	10.21	305.916	20
	October	5	15.78	128.269	20
	November	2	6.87	5.230	20
	December	0	0	0	N/A
<i>Six-month Total (Type A)</i>		<u>10</u>	<u>32.86</u>	<u>439.415</u>	
b. Dry compressible, contaminated equipment, etc.	July	6	3.01	0.054	20
	August	6	0.82	0.031	20
	September	5	2.19	0.154	20
	October	3	2.11	0.093	20
	November	5	0.79	0.319	20
	December	9	1.95	0.129	20
<i>Six-month Total (Type B)</i>		<u>34</u>	<u>10.87</u>	<u>0.779</u>	
c. Irradiated compo- nents and other categories	July	0	0	0	N/A
	August	0	0	0	N/A
	September	0	0	0	N/A
	October	0	0	0	N/A
	November	0	0	0	N/A
	December	0	0	0	N/A
<i>Six-month Total (Type C)</i>		<u>0</u>	<u>0</u>	<u>0</u>	N/A
d. Other	July	0	0	0	N/A
	August	0	0	0	N/A
	September	0	0	0	N/A
	October	0	0	0	N/A
	November	0	0	0	N/A
	December	0	0	0	N/A
<i>Six-month Total (Type D)</i>		<u>0</u>	<u>0</u>	<u>0</u>	N/A

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>Percent</u>	<u>Curies</u>	
a. Cs-137	55.4	243.469	All other nuclides are <1% of waste
Cs-134	22.5	98.642	
Co-60	14.6	64.097	
Co-58	1.9	8.423	
Mn-54	1.8	8.048	
Sr-89	1.5	6.493	
b. Cs-137	36.8	0.286	All other nuclides are <1% of waste
Cs-134	23.8	0.186	
Co-60	13.9	0.108	
Co-58	13.8	0.107	
Tc-99	7.6	0.059	
Sb-125	3.1	0.024	
c. N/A	N/A	N/A	
d. N/A	N/A	N/A	

C. SOLID WASTE (DISPOSITION)

<u>Number of Shipments</u>	<u>Transportation Mode</u>	<u>Destination</u>
11	Closed Sole Use Vehicle	Barnwell, South Carolina
33	Closed Sole Use Vehicle	Beatty, Nevada

D. IRRADIATED FUEL SHIPMENTS (DISPOSITION)

<u>Number of Shipments</u>	<u>Transportation Mode</u>	<u>Destination</u>
N/A	N/A	N/A

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

E. PCP and ODCM Revisions for the Period July 1, 1992 - December 31, 1992

In accordance with Technical Specification 5.9.4.a, the radioactive effluent release report shall include any revisions to the Offsite Dose Calculation Manual (ODCM) and the Process Control Program (PCP).

No revisions were made to the Offsite Dose Calculation Manual.

No revisions were made to the Process Control Program.

SECTION VI

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

(Regulatory Guide 1.21)

July 1, 1992 - December 31, 1992

VI. 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 -99.0 values signifying either invalid data or no data available.

B. Meteorological Data Recovery

Data recovery from the on-site weather tower for the period July thru December 1992 was less than the previous six months due to a scheduled tower outage for system calibrations and unscheduled outages caused by adverse weather conditions. The regulatory recovery guide was met with a cumulative recovery rate of 82.4% from the on-site tower with the remaining 17.6% provided by the National Weather Service. The following table is a summary of the parameters and their respective recovery rates for the period:

<u>Parameter</u>	<u>Actual Recovery Rate</u>	<u>Recovered Parameter Hrs/ Total Parameter Hrs</u>
WD110	0.4683	2068 /4416
WD45	0.4158	1836 /4416
WD10	0.9869	4358 /4416
WS110	0.9056	3999 /4416
WS45	0.9291	4103 /4416
WS10	0.9275	4096 /4416
Delta-T 100M	0.9810	4332 /4416
T10M	0.9794	4325 /4416

Total Possible Hours: 35,328

Actual Tower Recovery: 29,117

Recovery Rate: 0.8242

B. Meteorological Data Recovery (Continued)

Hourly meteorological data used to replace missing tower data for the months of July 1992 thru December 1992 originated from the North Omaha National Weather Service and NOAA Daily Synoptic Weather Maps. This raw data was used in formulating synthetic hourly data in accordance with monthly correction factors and a proceduralized Pasquill-Turner transformation which utilizes solar angle, time of day, cloud cover, and wind speed to determine the Pasquill Class.

The tabulations of the Weather Tower Data for July 1, 1992 through December 31, 1992 look appropriate for the season as indicated. The Pasquill Classes observed for the six month period are detailed below. The first three months of the second half of 1992 (July-September) were:

Pasquill								
Class	A	B	C	D	E	F	G	Total
% Obs.	3.3	10.0	11.4	37.0	22.8	11.9	3.6	= 100.0

and for October thru December were:

Pasquill								
Class	A	B	C	D	E	F	G	Total
% Obs.	2.9	8.6	9.4	40.4	26.7	8.7	3.3	= 100.0

The data, when corrected and/or supplemented by the synthetic data, derived from NWS NOAA data brought the recovery rate up above that required for maintaining adequate recovery as specified by the Nuclear Regulatory Commission. Recovery of synthetic and actual data requires a minimum recovery rate of 90 percent for the period.

On the basis of the data and its cross-checks, the weather data as amended is completely valid for use in tabulating reactor vent releases.

TABLE 158 - A

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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.	1.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	3.	2.4
NE	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.2
ENE	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.0
E	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.6
ESE	0.	0.	0.	1.	1.	0.	1.	1.	0.	0.	2.	1.	0.	0.	0.	7.	4.1
SE	0.	0.	0.	1.	1.	0.	2.	1.	2.	2.	4.	1.	0.	0.	0.	14.	4.2
SSE	0.	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.1
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.	2.7
SW	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.2
WSW	0.	0.	0.	1.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	2.1
W	0.	0.	0.	1.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	2.2
NNW	0.	0.	0.	0.	3.	5.	7.	0.	0.	1.	0.	0.	0.	0.	0.	16.	2.9
NW	0.	1.	0.	1.	5.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	10.	2.2
NNW	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.9
N	0.	1.	1.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	3.	2.0
TOTAL	0.	2.	3.	6.	21.	11.	12.	2.	4.	3.	6.	2.	0.	0.	0.	72.	2.9

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 3.3

TABLE 158 - B

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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.	1.	0.	2.	1.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	6.	2.3
NE	0.	1.	0.	1.	1.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	4.	2.7
ENE	0.	2.	0.	1.	0.	1.	1.	2.	0.	0.	0.	1.	0.	0.	0.	8.	2.8
E	0.	1.	0.	0.	0.	5.	4.	1.	1.	0.	1.	0.	0.	0.	0.	13.	3.1
ESE	0.	0.	0.	2.	2.	3.	3.	4.	3.	1.	2.	0.	0.	0.	0.	20.	3.4
SE	0.	0.	0.	0.	1.	5.	3.	4.	6.	6.	15.	0.	0.	0.	0.	40.	4.3
SSE	0.	0.	0.	0.	0.	3.	3.	5.	1.	4.	2.	0.	0.	0.	0.	18.	3.8
S	0.	0.	1.	1.	0.	1.	0.	0.	1.	1.	2.	0.	0.	0.	0.	9.	4.2
SSW	0.	1.	0.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	1.8
SW	0.	0.	0.	0.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	3.	2.7
WSW	0.	0.	2.	0.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	1.9
W	0.	0.	0.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	1.4
WNW	0.	1.	2.	3.	4.	6.	2.	1.	2.	1.	0.	0.	0.	0.	0.	22.	2.5
NW	0.	1.	0.	9.	14.	8.	5.	2.	0.	3.	0.	0.	0.	0.	0.	42.	2.5
NNW	0.	0.	3.	5.	6.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	16.	1.9
N	0.	0.	2.	3.	1.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	8.	2.2
TOTAL	0.	8.	11.	29.	35.	39.	22.	19.	14.	16.	24.	4.	0.	0.	0.	221.	3.0

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 10.0



TABLE 15B - C

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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.	1.	1.	1.	0.	0.	0.	1.	0.	0.	0.	0.	4.	3.5
NE	0.	0.	0.	2.	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	2.1
ENE	0.	0.	0.	2.	1.	1.	1.	0.	0.	0.	1.	0.	0.	0.	0.	6.	2.7
E	0.	1.	1.	2.	3.	2.	6.	2.	1.	0.	1.	1.	1.	0.	0.	21.	3.1
ESE	0.	0.	0.	1.	1.	3.	6.	7.	1.	3.	3.	1.	0.	0.	0.	26.	3.7
SE	0.	0.	0.	0.	2.	2.	1.	1.	6.	2.	9.	5.	0.	0.	0.	28.	4.7
SSE	0.	0.	0.	0.	0.	2.	2.	3.	2.	4.	4.	5.	0.	0.	0.	21.	4.7
S	0.	0.	1.	1.	2.	2.	1.	0.	2.	1.	2.	2.	0.	0.	0.	14.	3.7
SSW	0.	1.	1.	2.	4.	5.	0.	0.	0.	1.	0.	0.	0.	0.	0.	14.	2.3
SW	0.	2.	1.	2.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	1.7
WSW	0.	0.	5.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.	1.4
W	0.	1.	3.	2.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.	2.3
WNW	0.	0.	3.	3.	0.	1.	1.	3.	0.	0.	0.	0.	0.	0.	0.	42.	2.1
NW	0.	3.	5.	6.	17.	4.	5.	0.	0.	2.	0.	0.	0.	0.	0.	23.	2.0
NNW	0.	0.	3.	8.	6.	3.	3.	0.	0.	0.	0.	0.	0.	0.	0.	11.	1.6
N	0.	2.	2.	3.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	251.	2.9
TOTAL	0.	10.	25.	34.	45.	33.	27.	16.	12.	13.	21.	14.	1.	0.	0.		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 11.4

TABLE 15B - D

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

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

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	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	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	23.	2.1
NE	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	30.	3.1
ENE	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	45.	2.9
E	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	60.	2.8
ESE	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	83.	3.4
SE	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	109.	3.9
SSE	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	60.	3.7
S	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	32.	3.2
SSW	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	24.	2.4
SW	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	21.	1.5
WSW	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	18.	1.4
W	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	20.	1.1
WNW	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	80.	1.9
NW	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	147.	2.1
NNW	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	42.	1.6
N	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.4	22.	1.8
TOTAL	1.	68.	103.	134.	105.	86.	88.	74.	47.	45.	49.	2.	14.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	816.	2.6

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 37.0

TABLE 15B - E

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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 1.0		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	USAR	
	0.4	0.0	0.4	0.0	1.4	1.0	1.5	2.0	2.4	2.9	3.4	3.0	3.5	4.0	4.4	4.9	5.9	6.9	7.9	8.9	9.0	INF											
NNE	0.	0.	0.	1.	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.	2.	2.5	
NE	0.	0.	1.	2.	2.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.	2.1	
ENE	0.	0.	2.	5.	0.	0.	0.	0.	1.	4.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	12.	1.7	
E	1.	4.	4.	8.	15.	4.	8.	8.	9.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	43.	1.9	
ESE	0.	10.	8.	13.	13.	22.	22.	22.	24.	13.	5.	7.	0.	3.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	105.	2.4	
SE	2.	0.	4.	3.	4.	6.	6.	6.	11.	14.	12.	5.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	60.	2.9	
SSE	1.	3.	3.	2.	3.	4.	4.	4.	5.	2.	1.	4.	3.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	30.	2.9	
S	1.	3.	3.	3.	2.	2.	2.	2.	3.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	21.	2.4	
SSW	2.	6.	5.	5.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	19.	1.4	
SW	3.	10.	5.	3.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	22.	1.0	
WSW	3.	25.	3.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	32.	0.7	
W	2.	33.	13.	2.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	52.	0.9	
WNW	0.	20.	19.	9.	6.	6.	6.	6.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	56.	1.2	
NW	2.	12.	6.	4.	2.	2.	2.	2.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	29.	1.2	
NNW	0.	2.	0.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.8	
N	0.	2.	2.	2.	2.	2.	1.	1.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	1.6
N TOTAL	17.	133.	81.	58.	54.	62.	43.	22.	16.	7.	11.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	504.	1.8		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 22.8

TABLE 158 - F

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 RUN FROM TAPE SERIES TRI-EX

DRAJIA 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 15 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	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.4		
NE	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.6		
ENE	1.	3.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.9		
E	1.	2.	5.	8.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.	1.5		
ESE	0.	12.	5.	3.	6.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	29.	1.4		
SE	2.	11.	0.	0.	2.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	19.	1.2		
SSE	4.	4.	0.	3.	3.	2.	4.	1.	0.	0.	0.	0.	0.	0.	0.	21.	1.7		
S	5.	9.	1.	1.	1.	2.	5.	3.	0.	0.	0.	0.	0.	0.	0.	27.	1.6		
SSW	4.	8.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	13.	0.5		
SW	8.	9.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	18.	0.4		
WSW	8.	22.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	32.	0.5		
W	4.	22.	9.	2.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	38.	0.8		
WNW	2.	8.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	13.	0.7		
NW	2.	9.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.	0.6		
NNW	2.	4.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	0.6		
N	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	1.9		
N TOTAL	45.	125.	31.	20.	16.	11.	11.	4.	0.	0.	0.	0.	0.	0.	0.	263.	1.0		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 11.9

TABLE 158 - G

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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	USAR			
	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			INF		
NNE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0		
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0		
ENE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0		
E	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0		
ESE	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	0.7	
SE	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	0.7	
SSE	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	0.4	
S	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	0.4	
SSW	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.5	
SW	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	0.4
WSW	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	0.3	
W	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	0.5	
WNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.8	
NW	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.6	
NNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	
N	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	
TOTAL	21.	21.	49.	49.	7.	7.	2.	2.	1.	1.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	81.	0.6	

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 3.6

TABLE 15B - ALL

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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	1.	5.	4.	12.	5.	4.	1.	2.	1.	1.	4.	0.	0.	0.	0.	40.	2.2
NE	1.	5.	4.	15.	7.	7.	3.	3.	1.	0.	1.	0.	2.	0.	0.	54.	2.6
ENE	1.	13.	11.	9.	9.	12.	10.	5.	0.	2.	5.	4.	0.	0.	0.	81.	2.4
E	2.	13.	13.	36.	25.	30.	20.	7.	7.	2.	6.	2.	1.	0.	0.	164.	2.4
ESE	2.	45.	20.	24.	43.	38.	43.	32.	24.	9.	17.	2.	0.	0.	0.	299.	2.6
SE	6.	19.	11.	7.	14.	31.	36.	34.	32.	35.	47.	9.	0.	0.	0.	281.	3.5
SSE	8.	13.	5.	8.	14.	14.	17.	23.	12.	17.	21.	7.	0.	0.	0.	159.	3.3
S	8.	17.	8.	6.	9.	8.	20.	9.	4.	6.	8.	5.	0.	0.	0.	108.	2.6
SSW	7.	21.	8.	7.	10.	14.	5.	0.	4.	1.	0.	0.	0.	0.	0.	77.	1.7
SW	13.	25.	13.	11.	5.	5.	2.	1.	0.	0.	0.	0.	0.	0.	0.	75.	1.1
WSW	15.	54.	16.	5.	11.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	105.	0.9
W	10.	66.	33.	13.	4.	6.	1.	0.	0.	0.	1.	0.	0.	0.	0.	134.	1.0
WNW	3.	40.	49.	27.	26.	21.	18.	7.	6.	2.	0.	0.	0.	0.	0.	199.	1.8
NW	5.	38.	32.	63.	69.	36.	24.	11.	0.	8.	0.	0.	0.	0.	0.	286.	2.0
NNW	2.	14.	20.	23.	20.	9.	3.	1.	0.	0.	0.	0.	0.	0.	0.	92.	1.6
N	0.	7.	14.	17.	6.	4.	0.	2.	2.	1.	1.	0.	0.	0.	0.	54.	1.8
TOTAL	84.	395.	261.	283.	277.	242.	204.	137.	93.	84.	111.	34.	3.	0.	0.	2208.	2.3

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 100.0

TABLE 159 - A

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

DT100 = -2.0 TO -INF IN PERCENT										DATA USED -- WD10 , WS10 , DT100									
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION																			
SECTOR		0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO INF	TOTAL	UBAR	
NNE	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.4	
NE	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	0.05	2.2	
ENE	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	0.05	2.0	
E	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	0.05	2.6	
ESE	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.05	0.04	0.00	0.00	0.09	0.04	0.00	0.00	0.00	0.32	4.1	
SE	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.09	0.04	0.09	0.09	0.18	0.04	0.00	0.00	0.00	0.63	4.2	
SSE	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	0.00	0.00	0.09	2.1	
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	0.0	
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	0.04	2.7	
SW	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	0.00	0.00	0.00	0.04	2.2	
WSW	0.00	0.00	0.00	0.05	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	2.1	
W	0.00	0.00	0.00	0.04	0.14	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	2.2	
WNW	0.00	0.00	0.00	0.00	0.13	0.23	0.32	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.72	2.9	
NW	0.00	0.05	0.00	0.04	0.23	0.04	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	2.2	
NNW	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.9	
N	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.0	
TOTAL	0.00	0.10	0.14	0.28	0.97	0.49	0.55	0.08	0.17	0.13	0.27	0.08	0.00	0.00	0.00	0.00	3.26	2.9	

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 3.3



TABLE 159 - B

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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	0.4	TO	0.9	TO	1.4	TO	1.9	TO	2.4	TO	2.9	TO	3.4	TO	3.9	TO	4.4	TO	4.9	TO	5.9	TO	6.9	TO	7.9	TO	8.9	TO	INF		
NNE	0.00	0.00	0.05	0.00	0.00	0.09	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	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	2.3	
NE	0.00	0.00	0.05	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	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	2.7	
ENE	0.00	0.00	0.09	0.00	0.00	0.05	0.00	0.05	0.04	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	2.8	
E	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.23	0.18	0.05	0.04	0.00	0.04	0.00	0.00	0.00	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	0.59	3.1	
ESE	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.14	0.14	0.18	0.14	0.04	0.09	0.00	0.00	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	0.91	3.4	
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.23	0.14	0.14	0.23	0.04	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81	4.3	
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.13	0.23	0.04	0.18	0.09	0.00	0.00	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	0.81	3.8	
S	0.00	0.00	0.00	0.05	0.00	0.05	0.05	0.04	0.00	0.00	0.00	0.04	0.04	0.00	0.00	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	0.41	4.2	
SSW	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.04	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	0.14	1.8	
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.7	
WSW	0.00	0.00	0.00	0.09	0.00	0.09	0.00	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	1.9	
W	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.14	1.4	
WNW	0.00	0.00	0.05	0.09	0.14	0.18	0.27	0.09	0.05	0.09	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.5	
NW	0.00	0.00	0.04	0.00	0.41	0.63	0.36	0.23	0.09	0.00	0.00	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	1.90	2.5	
NNW	0.00	0.00	0.00	0.13	0.23	0.27	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	0.00	0.00	0.72	1.9	
N	0.00	0.00	0.00	0.09	0.14	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	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	2.2	
TOTAL	0.00	0.00	0.38	0.50	1.34	1.59	1.77	0.99	0.87	0.62	0.71	1.07	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.01	3.0	
NUMBER OF INVALID OBSERVATIONS=																	0.															
PERCENT OF VALID OBSERVATIONS=																	10.0															

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 10.0



TABLE 159 - C

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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	0.05	0.05	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.18	3.5		
NE	0.00	0.00	0.00	0.09	0.14	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	2.1		
ENE	0.00	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	0.27	2.7		
E	0.00	0.05	0.05	0.09	0.14	0.09	0.27	0.09	0.05	0.00	0.04	0.04	0.04	0.00	0.00	0.95	3.1		
ESE	0.00	0.00	0.00	0.05	0.04	0.14	0.27	0.32	0.04	0.14	0.14	0.04	0.00	0.00	0.00	1.18	3.7		
SE	0.00	0.00	0.00	0.00	0.09	0.09	0.05	0.04	0.27	0.09	0.41	0.73	0.00	0.00	0.00	1.27	4.7		
SSE	0.00	0.00	0.00	0.00	0.00	0.04	0.09	0.14	0.09	0.18	0.18	0.23	0.00	0.00	0.00	0.95	4.7		
S	0.00	0.00	0.05	0.05	0.09	0.09	0.04	0.00	0.09	0.04	0.09	0.09	0.00	0.00	0.00	0.63	3.7		
SSW	0.00	0.05	0.04	0.09	0.18	0.23	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.53	2.3		
SW	0.00	0.09	0.05	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	1.7		
WSW	0.00	0.00	0.23	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	1.4		
W	0.00	0.05	0.14	0.09	0.04	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	1.7		
WNW	0.00	0.00	0.14	0.14	0.00	0.04	0.04	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	2.3		
NW	0.00	0.13	0.23	0.27	0.77	0.18	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90	2.1		
NNW	0.00	0.00	0.14	0.36	0.27	0.14	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	2.0		
N	0.00	0.09	0.09	0.14	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	1.6		
TOTAL	0.00	0.46	1.16	1.55	2.04	1.50	1.20	0.73	0.54	0.58	0.94	0.63	0.63	0.04	0.00	11.37	2.9		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 11.4

TABLE 159 - D

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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 15 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4	26.9	27.4	27.9	28.4	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.4	35.9	36.4	36.9	37.4	37.9	38.4	38.9	39.4	39.9	40.4	40.9	41.4	41.9	42.4	42.9	43.4	43.9	44.4	44.9	45.4	45.9	46.4	46.9	47.4	47.9	48.4	48.9	49.4	49.9	50.4	50.9	51.4	51.9	52.4	52.9	53.4	53.9	54.4	54.9	55.4	55.9	56.4	56.9	57.4	57.9	58.4	58.9	59.4	59.9	60.4	60.9	61.4	61.9	62.4	62.9	63.4	63.9	64.4	64.9	65.4	65.9	66.4	66.9	67.4	67.9	68.4	68.9	69.4	69.9	70.4	70.9	71.4	71.9	72.4	72.9	73.4	73.9	74.4	74.9	75.4	75.9	76.4	76.9	77.4	77.9	78.4	78.9	79.4	79.9	80.4	80.9	81.4	81.9	82.4	82.9	83.4	83.9	84.4	84.9	85.4	85.9	86.4	86.9	87.4	87.9	88.4	88.9	89.4	89.9	90.4	90.9	91.4	91.9	92.4	92.9	93.4	93.9	94.4	94.9	95.4	95.9	96.4	96.9	97.4	97.9	98.4	98.9	99.4	99.9	100.4	100.9	101.4	101.9	102.4	102.9	103.4	103.9	104.4	104.9	105.4	105.9	106.4	106.9	107.4	107.9	108.4	108.9	109.4	109.9	110.4	110.9	111.4	111.9	112.4	112.9	113.4	113.9	114.4	114.9	115.4	115.9	116.4	116.9	117.4	117.9	118.4	118.9	119.4	119.9	120.4	120.9	121.4	121.9	122.4	122.9	123.4	123.9	124.4	124.9	125.4	125.9	126.4	126.9	127.4	127.9	128.4	128.9	129.4	129.9	130.4	130.9	131.4	131.9	132.4	132.9	133.4	133.9	134.4	134.9	135.4	135.9	136.4	136.9	137.4	137.9	138.4	138.9	139.4	139.9	140.4	140.9	141.4	141.9	142.4	142.9	143.4	143.9	144.4	144.9	145.4	145.9	146.4	146.9	147.4	147.9	148.4	148.9	149.4	149.9	150.4	150.9	151.4	151.9	152.4	152.9	153.4	153.9	154.4	154.9	155.4	155.9	156.4	156.9	157.4	157.9	158.4	158.9	159.4	159.9	160.4	160.9	161.4	161.9	162.4	162.9	163.4	163.9	164.4	164.9	165.4	165.9	166.4	166.9	167.4	167.9	168.4	168.9	169.4	169.9	170.4	170.9	171.4	171.9	172.4	172.9	173.4	173.9	174.4	174.9	175.4	175.9	176.4	176.9	177.4	177.9	178.4	178.9	179.4	179.9	180.4	180.9	181.4	181.9	182.4	182.9	183.4	183.9	184.4	184.9	185.4	185.9	186.4	186.9	187.4	187.9	188.4	188.9	189.4	189.9	190.4	190.9	191.4	191.9	192.4	192.9	193.4	193.9	194.4	194.9	195.4	195.9	196.4	196.9	197.4	197.9	198.4	198.9	199.4	199.9	200.4	200.9	201.4	201.9	202.4	202.9	203.4	203.9	204.4	204.9	205.4	205.9	206.4	206.9	207.4	207.9	208.4	208.9	209.4	209.9	210.4	210.9	211.4	211.9	212.4	212.9	213.4	213.9	214.4	214.9	215.4	215.9	216.4	216.9	217.4	217.9	218.4	218.9	219.4	219.9	220.4	220.9	221.4	221.9	222.4	222.9	223.4	223.9	224.4	224.9	225.4	225.9	226.4	226.9	227.4	227.9	228.4	228.9	229.4	229.9	230.4	230.9	231.4	231.9	232.4	232.9	233.4	233.9	234.4	234.9	235.4	235.9	236.4	236.9	237.4	237.9	238.4	238.9	239.4	239.9	240.4	240.9	241.4	241.9	242.4	242.9	243.4	243.9	244.4	244.9	245.4	245.9	246.4	246.9	247.4	247.9	248.4	248.9	249.4	249.9	250.4	250.9	251.4	251.9	252.4	252.9	253.4	253.9	254.4	254.9	255.4	255.9	256.4	256.9	257.4	257.9	258.4	258.9	259.4	259.9	260.4	260.9	261.4	261.9	262.4	262.9	263.4	263.9	264.4	264.9	265.4	265.9	266.4	266.9	267.4	267.9	268.4	268.9	269.4	269.9	270.4	270.9	271.4	271.9	272.4	272.9	273.4	273.9	274.4	274.9	275.4	275.9	276.4	276.9	277.4	277.9	278.4	278.9	279.4	279.9	280.4	280.9	281.4	281.9	282.4	282.9	283.4	283.9	284.4	284.9	285.4	285.9	286.4	286.9	287.4	287.9	288.4	288.9	289.4	289.9	290.4	290.9	291.4	291.9	292.4	292.9	293.4	293.9	294.4	294.9	295.4	295.9	296.4	296.9	297.4	297.9	298.4	298.9	299.4	299.9	300.4	300.9	301.4	301.9	302.4	302.9	303.4	303.9	304.4	304.9	305.4	305.9	306.4	306.9	307.4	307.9	308.4	308.9	309.4	309.9	310.4	310.9	311.4	311.9	312.4	312.9	313.4	313.9	314.4	314.9	315.4	315.9	316.4	316.9	317.4	317.9	318.4	318.9	319.4	319.9	320.4	320.9	321.4	321.9	322.4	322.9	323.4	323.9	324.4	324.9	325.4	325.9	326.4	326.9	327.4	327.9	328.4	328.9	329.4	329.9	330.4	330.9	331.4	331.9	332.4	332.9	333.4	333.9	334.4	334.9	335.4	335.9	336.4	336.9	337.4	337.9	338.4	338.9	339.4	339.9	340.4	340.9	341.4	341.9	342.4	342.9	343.4	343.9	344.4	344.9	345.4	345.9	346.4	346.9	347.4	347.9	348.4	348.9	349.4	349.9	350.4	350.9	351.4	351.9	352.4	352.9	353.4	353.9	354.4	354.9	355.4	355.9	356.4	356.9	357.4	357.9	358.4	358.9	359.4	359.9	360.4	360.9	361.4	361.9	362.4	362.9	363.4	363.9	364.4	364.9	365.4	365.9	366.4	366.9	367.4	367.9	368.4	368.9	369.4	369.9	370.4	370.9	371.4	371.9	372.4	372.9	373.4	373.9	374.4	374.9	375.4	375.9	376.4	376.9	377.4	377.9	378.4	378.9	379.4	379.9	380.4	380.9	381.4	381.9	382.4	382.9	383.4	383.9	384.4	384.9	385.4	385.9	386.4	386.9	387.4	387.9	388.4	388.9	389.4	389.9	390.4	390.9	391.4	391.9	392.4	392.9	393.4	393.9	394.4	394.9	395.4	395.9	396.4	396.9	397.4	397.9	398.4	398.9	399.4	399.9	400.4	400.9	401.4	401.9	402.4	402.9	403.4	403.9	404.4	404.9	405.4	405.9	406.4	406.9	407.4	407.9	408.4	408.9	409.4	409.9	410.4	410.9	411.4	411.9	412.4	412.9	413.4	413.9	414.4	414.9	415.4	415.9	416.4	416.9	417.4	417.9	418.4	418.9	419.4	419.9	420.4	420.9	421.4	421.9	422.4	422.9	423.4	423.9	424.4	424.9	425.4	425.9	426.4	426.9	427.4	427.9	428.4	428.9	429.4	429.9	430.4	430.9	431.4	431.9	432.4	432.9	433.4	433.9	434.4	434.9	435.4	435.9	436.4	436.9	437.4	437.9	438.4	438.9	439.4	439.9	440.4	440.9	441.4	441.9	442.4	442.9	443.4	443.9	444.4	444.9	445.4	445.9	446.4	446.9	447.4	447.9	448.4	448.9	449.4	449.9	450.4	450.9	451.4	451.9	452.4	452.9	453.4	453.9	454.4	454.9	455.4	455.9	456.4	456.9	457.4	457.9	458.4	458.9	459.4	459.9	460.4	460.9	461.4	461.9	462.4	462.9	463.4	463.9	464.4	464.9	465.4	465.9	466.4	466.9	467.4	467.9	468.4	468.9	469.4	469.9	470.4	470.9	471.4	471.9	472.4	472.9	473.4	473.9	474.4	474.9	475.4	475.9	476.4	476.9	477.4	477.9	478.4	478.9	479.4	479.9	480.4	480.9	481.4	481.9	482.4	482.9	483.4	483.9	484.4	484.9	485.4	485.9	486.4	486.9	487.4	487.9	488.4	488.9	489.4	489.9	490.4	490.9	491.4	491.9	492.4	492.9	493.4	493.9	494.4	494.9	495.4	495.9	496.4	496.9	497.4	497.9	498.4	498.9	499.4	499.9	500.4	500.9	501.4	501.9	502.4	502.9	503.4	503.9	504.4	504.9	505.4	505.9	506.4	506.9	507.4	507.9	508.4	508.9	509.4	509.9	510.4	510.9	511.4	511.9	512.4	512.9	513.4	513.9	514.4	514.9	515.4	515.9	516.4	516.9	517.4	517.9	518.4	518.9	519.4	519.9	520.4	520.9	521.4	521.9	522.4	522.9	523.4	523.9	524.4	524.9	525.4	525.9	526.4	526.9	527.4	527.9	528.4	528.9	529.4	529.9	530.4	530.9	531.4	531.9	532.4	532.9	533.4	533.9	534.4	534.9	535.4	535.9	536.4	536.9	537.4	537.9	538.4	538.9	539.4	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.4	543.9	544.4	544.9	545.4	545.9	546.4	546.9	547.4	547.9	548.4	548.9	549.4	549.9	550.4	550.9	551.4	551.9	552.4	552.9	553.4	553.9	554.4	554.9	555.4	555.9	556.4	556.9	557.4	557.9	558.4	558.9	559.4	559.9	560.4	560.9	561.4	561.9	562.4	562.9	563.4	563.9	564.4	564.9	565.4	565.9	566.4	566.9	567.4	567.9	568.4	568.9	569.4	569.9	570.4	570.9	571.4	571.9	572.4	572.9	573.4	573.9	574.4	574.9	575.4	575.9	576.4	576.9	577.4	577.9	578.4	578.9	579.4	579.9	580.4	580.9	581.4	581.9	582.4	582.9	583.4	583.9	584.4	584.9	585.4	585.9	586.4	586.9	587.4	587.9	588.4	588.9	589.4	589.9	590.4	590.9	591.4	591.9	592.4	592.9	593.4	593.9	594.4	594.9	595.4	595.9	596.4	596.9	597.4	597.9	598.4	598.9	599.4	599.9	600.4	600.9	601.4	601.9	602.4	602.9	603.4	603.9	604.4	604.9	605.4	605.9	606.4	606.

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 37.0

TABLE 159 - E

DATA SECTION 07/01/1992 THROUGH 09/30/1992 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

OT100 = -0.4 TO +1.5 IN PERCENT

DATA USED: -- WD10 , WS10 , DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

[illegible]

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 22.8

TABLE 159 - F

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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	0.05	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	0.09	0.4		
NENE	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	0.09	0.6		
NENE	0.05	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.9		
E	0.05	0.09	0.23	0.36	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	1.5		
ESE	0.00	0.54	0.23	0.14	0.27	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	1.4		
ESE	0.09	0.50	0.00	0.00	0.09	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	1.2		
SSE	0.18	0.18	0.00	0.14	0.14	0.09	0.18	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	1.7		
S	0.23	0.41	0.04	0.04	0.04	0.08	0.23	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	1.6		
SSW	0.18	0.36	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	0.59	0.5		
SW	0.36	0.41	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	0.82	0.4		
WSW	0.36	1.00	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	1.45	0.5		
W	0.18	1.00	0.41	0.09	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.8		
NNW	0.09	0.36	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	0.59	0.7		
NNW	0.09	0.41	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.6		
NNW	0.09	0.18	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	0.32	0.6		
NNW	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.9		
N TOTAL	2.05	5.66	1.41	0.91	0.72	0.49	0.49	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.91	1.0		

TABLE 159 - G

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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										TOTAL	UBAR
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													
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										
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										
ENE	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	0.07										
E	0.00	0.18	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	0.27	1.11										
ESE	0.09	0.95	0.23	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	1.31	0.77										
SE	0.09	0.36	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	0.50	0.77										
SSE	0.14	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.47										
S	0.09	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	0.23	0.47										
SSW	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	0.14	0.57										
SW	0.09	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	0.13	0.57										
WSW	0.18	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	0.23	0.37										
W	0.18	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	0.27	0.57										
WNW	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	0.04	0.87										
NW	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	0.09	0.67										
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										
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										
TOTAL	0.96	2.21	0.32	0.09	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67	0.67										

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 3.6

TABLE 159 - ALL

DATA PERIOD 07/01/1992 THROUGH 09/30/1992 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 -- WN10 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	UBAR
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.9	6.5	7.9	8.9	INF	TOTAL
NNE	0.05	0.23	0.18	0.54	0.23	0.18	0.05	0.09	0.04	0.04	0.18	0.00	0.00	0.00	0.00	1.81
NE	0.04	0.23	0.18	0.68	0.32	0.32	0.14	0.13	0.04	0.00	0.04	0.23	0.09	0.00	0.00	2.44
ENE	0.04	0.59	0.50	0.41	0.41	0.54	0.45	0.23	0.00	0.09	0.23	0.18	0.00	0.00	0.00	3.67
E	0.09	0.59	0.59	1.63	1.13	1.36	0.91	0.32	0.00	0.09	0.27	0.09	0.04	0.00	0.00	7.43
ESE	0.09	2.04	0.90	1.63	1.95	1.72	1.95	1.45	1.08	0.41	0.77	0.09	0.00	0.00	0.00	13.54
SE	0.27	0.86	0.50	0.32	0.63	1.40	1.63	1.54	1.45	1.59	2.13	0.41	0.00	0.00	0.00	12.73
SSE	0.36	0.59	0.23	0.36	0.64	0.63	0.77	1.04	0.54	0.77	0.95	0.32	0.00	0.00	0.00	7.20
S	0.36	0.77	0.36	0.27	0.41	0.36	0.91	0.41	0.18	0.27	0.36	0.23	0.00	0.00	0.00	4.89
SSW	0.32	0.95	0.36	0.32	0.45	0.63	0.23	0.00	0.18	0.05	0.00	0.00	0.00	0.00	0.00	3.49
SW	0.59	1.13	0.59	0.50	0.23	0.23	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.40
WSW	0.66	2.44	0.72	0.23	0.50	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.75
W	0.45	2.99	1.49	0.59	0.18	0.27	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	6.07
WNW	0.14	1.81	2.22	1.22	1.18	0.95	0.81	0.32	0.27	0.09	0.00	0.00	0.00	0.00	0.00	9.01
NW	0.23	1.72	1.45	2.85	3.12	1.63	1.09	0.50	0.00	0.36	0.00	0.00	0.00	0.00	0.00	12.95
NNW	0.09	0.63	0.91	1.04	0.91	0.41	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.17
N	0.00	0.32	0.63	0.77	0.27	0.18	0.00	0.09	0.09	0.05	0.05	0.00	0.00	0.00	0.00	2.45
TOTAL	3.80	17.89	11.81	12.82	12.55	10.95	9.26	6.20	4.19	3.81	5.03	1.55	0.13	0.00	0.00	100.00
NUMBER OF INVALID OBSERVATIONS= 0.																
PERCENT OF VALID OBSERVATIONS= 100.0																

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 100.0

TABLE 158 - A

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	2.	3.4	
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	
ENE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	
E	0.	0.	0.	0.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	3.0	
ESE	0.	0.	0.	0.	0.	0.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	4.	4.0	
SE	0.	0.	0.	0.	0.	0.	0.	2.	1.	0.	0.	0.	0.	0.	0.	0.	3.	3.9	
SSE	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.5	
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	
SSW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	
SW	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	
WSW	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.7	
W	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	1.1	
WNW	1.	0.	0.	0.	1.	4.	1.	5.	3.	0.	0.	0.	0.	0.	0.	0.	15.	3.1	
NW	0.	0.	0.	2.	2.	4.	8.	5.	1.	6.	2.	0.	0.	0.	0.	0.	30.	3.4	
NNW	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	5.	3.4	
N	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	
TOTAL	1.	3.	0.	4.	4.	10.	11.	13.	6.	9.	4.	0.	0.	0.	0.	0.	65.	3.3	

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 2.9



TABLE 15B - B

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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 1% FREQUENCY DATA USED -- WD10 , WS10 , DT100

SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION

SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR
	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM		
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.4
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.1
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.9
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.4
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.5
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	5.1
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	4.6
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	3.8
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	3.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.4
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.2
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.5
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	2.1
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.0	2.9
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	2.8
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5
TOTAL	1.0	0.0	8.0	17.0	15.0	30.0	31.0	27.0	14.0	15.0	7.0	9.0	10.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	190.0	3.1

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 8.6



TABLE 15B - C

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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 15 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	TO		
NNE	0.	0.	0.	0.	2.	1.	1.	1.	1.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	2.1
NE	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	3.4
ENE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
E	0.	0.	1.	0.	1.	1.	2.	0.	1.	1.	2.	1.	1.	0.	1.	1.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	2.0
ESE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	15.	4.6
SE	0.	0.	0.	0.	1.	1.	1.	1.	1.	1.	1.	1.	5.	1.	4.	2.	2.	1.	1.	1.	2.	0.	1.	1.	0.	0.	0.	0.	0.	0.	18.	3.5
SSE	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	1.	1.	3.	1.	5.	2.	2.	2.	1.	1.	0.	0.	2.	2.	0.	0.	0.	0.	0.	0.4	17.	4.4
S	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	4.	0.	2.	0.	0.	0.	0.	0.	1.	1.	16.	4.6
SSW	0.	0.	0.	0.	2.	1.	0.	0.	1.	1.	0.	0.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	2.9
SW	0.	0.	0.	0.	1.	1.	0.	0.	0.	0.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	2.7
WSW	0.	0.	0.	0.	2.	1.	0.	0.	0.	0.	4.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	1.8
W	0.	0.	0.	0.	1.	1.	0.	0.	0.	0.	7.	7.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	2.2
WNW	0.	0.	2.	0.	3.	3.	3.	3.	3.	11.	16.	16.	5.	5.	1.	1.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	22.	2.3
NW	0.	0.	1.	0.	2.	2.	4.	4.	11.	11.	2.	2.	5.	5.	2.	2.	1.	1.	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	47.	2.7
NNW	0.	0.	2.	0.	2.	2.	6.	6.	7.	7.	2.	2.	2.	2.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	24.	2.2
N	0.	0.	0.	0.	1.	1.	5.	5.	1.	1.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.	2.0
TOTAL	0.	0.	7.	7.	18.	25.	25.	28.	28.	28.	42.	42.	23.	23.	23.	23.	10.	9.	9.	11.	11.	7.	7.	2.	2.	1.	1.	1.	1.	207.	3.0	

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 9.4

TABLE 158 - D

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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 14 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.	4.	5.	4.	5.	2.	3.	0.	0.	1.	0.	0.	0.	0.	24.	2.4
NE	0.	1.	4.	4.	5.	1.	3.	2.	2.	0.	0.	0.	0.	0.	0.	22.	2.2
ENE	0.	2.	5.	6.	4.	5.	5.	4.	3.	1.	3.	0.	0.	0.	0.	38.	2.7
E	0.	0.	1.	5.	3.	9.	9.	11.	7.	7.	1.	0.	0.	0.	0.	53.	3.3
ESE	0.	0.	4.	1.	3.	5.	10.	6.	9.	7.	16.	7.	0.	0.	0.	76.	3.8
SE	0.	1.	2.	2.	7.	6.	4.	2.	1.	9.	8.	1.	0.	0.	0.	43.	3.5
SSE	0.	3.	2.	3.	3.	5.	15.	5.	4.	10.	8.	8.	2.	1.	0.1	69.	4.0
S	1.	4.	6.	1.	2.	5.	6.	4.	2.	2.	3.	8.	3.	2.	5.	54.	4.3
SSW	1.	1.	6.	2.	1.	3.	1.	0.	0.	1.	3.	1.	1.	1.	0.	22.	3.0
SW	0.	3.	8.	6.	5.	1.	0.	0.	0.	1.	0.	0.	0.	0.	1.	25.	1.9
WSW	1.	6.	10.	8.	6.	7.	1.	1.	0.	0.	0.	0.	0.	0.	0.	40.	1.7
W	0.	7.	3.	14.	9.	8.	10.	0.	2.	3.	0.	0.	0.	0.	0.	56.	2.2
WNW	7.	9.	11.	23.	21.	17.	25.	16.	15.	11.	3.	0.	0.	0.	1.	159.	2.7
WW	1.	7.	7.	28.	21.	10.	8.	7.	9.	3.	3.	1.	0.	0.	0.	105.	2.5
NNW	0.	7.	10.	22.	8.	13.	9.	3.	2.	0.	0.	0.	0.	0.	0.	74.	2.1
N	1.	4.	5.	7.	11.	3.	1.	1.	0.	0.	0.	0.	0.	0.	0.	33.	1.8
TOTAL	12.	59.	85.	139.	118.	103.	109.	65.	56.	55.	49.	26.	6.	4.	7.	893.	2.8

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 40.4

TABLE 158 - E

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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	1.	4.	5.	1.	3.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	15.	1.4
NE	0.	0.	5.	4.	7.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	18.	1.9
ENE	1.	1.	6.	8.	8.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	27.	1.7
E	0.	4.	7.	13.	11.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	37.	1.7
ESE	0.	2.	7.	8.	7.	2.	6.	7.	1.	0.	2.	3.	0.	0.	0.	45.	2.7
SE	3.	4.	6.	9.	7.	1.	3.	3.	4.	1.	0.	1.	0.	0.	0.	42.	2.2
SSE	0.	5.	6.	3.	2.	4.	6.	3.	4.	7.	2.	0.	0.	0.	0.	42.	2.9
S	2.	8.	4.	1.	4.	0.	0.	1.	1.	1.	1.	1.	0.	0.	1.	25.	2.2
SSW	2.	7.	4.	5.	4.	1.	0.	2.	0.	0.	1.	0.	0.	0.	0.	24.	1.6
SW	1.	6.	5.	3.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	18.	1.2
WSW	0.	15.	5.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	24.	0.9
W	8.	20.	18.	21.	2.	1.	0.	0.	1.	0.	3.	0.	0.	0.	0.	74.	1.3
WNW	4.	14.	11.	7.	8.	11.	8.	7.	3.	2.	4.	0.	0.	0.	0.	79.	2.2
NW	1.	10.	9.	10.	4.	3.	4.	5.	3.	2.	3.	0.	0.	0.	0.	54.	2.2
NNW	0.	5.	2.	2.	2.	5.	4.	1.	2.	0.	3.	0.	0.	0.	0.	26.	2.6
N	3.	13.	3.	7.	3.	6.	1.	0.	0.	2.	0.	0.	0.	0.	0.	39.	1.6
TOTAL	26.	118.	103.	105.	75.	39.	34.	29.	19.	15.	20.	5.	0.	0.	1.	589.	2.0

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 26.7

TABLE 15B - F

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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.	1.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.1
NE	2.	1.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.8
ENE	0.	1.	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	1.3
E	0.	1.	3.	5.	3.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	15.	1.9
ESE	4.	4.	4.	8.	1.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	23.	1.3
SE	2.	7.	2.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	13.	0.9
SSE	1.	8.	2.	1.	1.	2.	1.	1.	1.	0.	1.	0.	0.	0.	0.	19.	1.7
S	2.	3.	1.	0.	0.	1.	2.	1.	1.	0.	1.	0.	0.	0.	0.	12.	2.2
SSW	3.	11.	1.	0.	1.	0.	1.	4.	0.	1.	0.	1.	0.	0.	0.	23.	1.7
SW	5.	4.	0.	2.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	12.	0.9
WSW	1.	7.	2.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.	0.8
W	1.	10.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	13.	0.8
WNW	4.	11.	3.	1.	0.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	24.	1.2
NW	2.	4.	2.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	9.	1.0
NNW	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	1.	3.0
N	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.6
TOTAL	27.	74.	28.	23.	6.	6.	10.	9.	4.	1.	2.	1.	0.	0.	0.	191.	1.3

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 8.7

TABLE 158 - G

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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			
	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			INF		
NNE	0.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.5		
NE	0.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.8		
ENE	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.8		
E	0.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.	1.1		
ESE	1.	0.	6.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.6		
SE	1.	0.	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.6		
SSE	1.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.5		
S	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.9	
SSW	2.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	1.0	
SW	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.7	
WSW	0.	0.	4.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.7	
W	0.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.5	
WNW	1.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.7	
NW	1.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.7	
NNW	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.6	
N	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	8.	0.	42.	18.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	73.	0.9			

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 3.3

TABLE 158 - ALL

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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	1.	8.	14.	7.	10.	6.	4.	3.	0.	1.	3.	0.	0.	0.	0.	0.	59.	2.0	
NE	2.	5.	11.	10.	15.	4.	5.	2.	3.	0.	0.	0.	0.	0.	0.	0.	57.	1.9	
ENE	1.	6.	16.	15.	14.	9.	5.	6.	3.	1.	3.	0.	0.	0.	0.	0.	79.	2.2	
E	0.	9.	18.	25.	19.	13.	15.	12.	9.	8.	1.	0.	0.	0.	0.	0.	129.	2.4	
ESE	5.	16.	15.	20.	17.	8.	21.	17.	14.	10.	23.	12.	1.	0.	0.	0.	179.	3.1	
SE	6.	17.	11.	13.	15.	10.	12.	11.	10.	12.	12.	9.	0.	0.	0.	0.	135.	2.8	
SSE	2.	21.	12.	8.	9.	15.	26.	15.	12.	20.	13.	12.	8.	2.	1.	1.	174.	3.4	
S	5.	16.	15.	4.	7.	8.	12.	12.	8.	6.	10.	12.	3.	3.	7.	7.	128.	3.6	
SSW	8.	22.	15.	8.	5.	4.	5.	8.	1.	4.	4.	4.	1.	1.	0.	0.	90.	2.2	
SW	7.	13.	15.	11.	10.	1.	0.	0.	2.	2.	0.	0.	0.	0.	1.	1.	62.	1.6	
WSW	2.	34.	24.	14.	7.	9.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	92.	1.3	
W	9.	41.	23.	39.	12.	14.	13.	0.	3.	3.	3.	0.	0.	0.	0.	0.	160.	1.7	
WNW	17.	40.	31.	39.	42.	45.	40.	30.	23.	13.	7.	1.	0.	0.	1.	1.	329.	2.4	
NW	6.	26.	24.	45.	43.	47.	38.	26.	16.	14.	10.	2.	0.	0.	0.	0.	297.	2.5	
NNW	0.	19.	15.	34.	21.	27.	16.	8.	6.	2.	6.	0.	1.	0.	0.	0.	155.	2.3	
N	4.	18.	10.	19.	17.	9.	2.	2.	0.	2.	0.	0.	0.	0.	0.	0.	83.	1.7	
TOTAL	75.	311.	269.	311.	263.	231.	215.	153.	110.	98.	95.	49.	12.	6.	10.		2208.	2.5	

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 100.0

TABLE 159 - A

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

DT100 = -2.0 TO -INF IN PERCENT										DATA USED -- WD10 , WS10 , DT100											
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION																					
SECTOR	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO INF	TOTAL	UBAR				
NNE	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.09	3.4				
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				
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				
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	3.0				
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.18	4.0				
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.14	3.9				
SSE	0.00	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	0.00	0.04	2.5				
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	0.00	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				
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	0.04	1.7				
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	0.00	0.00	0.00	0.09	1.1				
WNW	0.05	0.00	0.00	0.00	0.04	0.18	0.36	0.23	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.68	3.1				
NW	0.00	0.00	0.00	0.00	0.09	0.18	0.36	0.23	0.05	0.27	0.09	0.00	0.00	0.00	0.00	1.36	3.4				
NNW	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.00	0.00	0.00	0.00	0.23	3.4				
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				
TOTAL	0.05	0.14	0.00	0.17	0.18	0.45	0.49	0.60	0.28	0.40	0.18	0.00	0.00	0.00	0.00	2.94	3.3				

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 2.9



TABLE 159 - B

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

DT100 = -1.7 TO -1.9 IN PERCENT										DATA USED -- WD10 , WS10 , DT100									
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION																			
SECTOR	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO 9.4	TOTAL	USAR		
NNE	0.00	0.00	0.00	0.00	0.05	0.00	0.09	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.18	3.4		
NE	0.00	0.00	0.00	0.05	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	2.1		
ENE	0.00	0.00	0.00	0.00	0.09	0.05	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	2.9		
E	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.23	3.4		
ESE	0.00	0.00	0.00	0.05	0.00	0.00	0.09	0.05	0.04	0.00	0.09	0.18	0.00	0.00	0.00	0.27	3.5		
SE	0.00	0.00	0.00	0.00	0.09	0.09	0.05	0.05	0.04	0.04	0.09	0.09	0.14	0.00	0.04	0.81	5.1		
SSE	0.00	0.09	0.00	0.00	0.09	0.09	0.05	0.05	0.04	0.04	0.09	0.04	0.00	0.04	0.00	0.77	4.6		
S	0.00	0.00	0.09	0.05	0.05	0.00	0.09	0.18	0.14	0.05	0.04	0.00	0.09	0.00	0.00	0.41	3.0		
SSW	0.00	0.09	0.09	0.05	0.00	0.00	0.00	0.05	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.09	3.4		
SW	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.27	1.2		
WSW	0.00	0.05	0.18	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	2.5		
W	0.00	0.00	0.05	0.00	0.04	0.04	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	2.1		
WNW	0.00	0.04	0.14	0.23	0.41	0.18	0.14	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	2.08	2.9		
NW	0.05	0.04	0.09	0.04	0.23	0.63	0.59	0.14	0.14	0.04	0.09	0.00	0.00	0.00	0.00	1.04	2.8		
NNW	0.00	0.05	0.05	0.18	0.18	0.32	0.00	0.09	0.05	0.04	0.04	0.00	0.04	0.00	0.00	0.09	1.5		
N	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	0.00	0.00	0.09	1.5		
TOTAL	0.05	0.36	0.79	0.69	1.37	1.40	1.24	0.65	0.67	0.29	0.39	0.44	0.18	0.04	0.04	8.60	3.1		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 8.6



TABLE 159 - C

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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 .6 IN PERCENT										DATA USED -- WD10 , WS10 , DT100																								
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION																																		
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		USAR		
SECTOR																																		
HNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00	0.00

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 9.4

TABLE 159 - D

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

DT100 = -0.5 TO -1.4 IN PERCENT										DATA USED -- WD10 , WS10 , DT100									
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION																			
SECTOR	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO INF	TOTAL	UBAR		
NNE	0.00	0.00	0.18	0.23	0.18	0.23	0.09	0.14	0.00	0.00	0.04	0.00	0.00	0.00	0.00	1.09	2.4		
ENE	0.00	0.05	0.18	0.18	0.13	0.04	0.14	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.2		
ESE	0.00	0.09	0.23	0.27	0.18	0.23	0.23	0.23	0.18	0.14	0.04	0.13	0.00	0.00	0.00	1.72	2.7		
SE	0.00	0.00	0.04	0.23	0.13	0.41	0.41	0.50	0.32	0.32	0.04	0.00	0.00	0.00	0.00	2.40	3.3		
SSE	0.00	0.18	0.04	0.14	0.16	0.23	0.45	0.27	0.41	0.32	0.72	0.32	0.00	0.00	0.00	3.44	3.8		
S	0.00	0.05	0.09	0.09	0.12	0.27	0.18	0.09	0.05	0.41	0.36	0.04	0.00	0.00	0.00	1.95	3.5		
SSW	0.00	0.14	0.09	0.14	0.13	0.23	0.68	0.23	0.18	0.45	0.36	0.36	0.09	0.04	0.00	3.12	4.0		
SW	0.05	0.18	0.27	0.04	0.19	0.23	0.27	0.18	0.09	0.09	0.14	0.36	0.14	0.09	0.23	2.45	4.3		
WSW	0.05	0.05	0.27	0.09	0.05	0.14	0.05	0.00	0.00	0.04	0.14	0.00	0.00	0.00	0.00	1.00	3.0		
W	0.00	0.14	0.36	0.27	0.13	0.05	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.04	1.13	1.9		
WNW	0.00	0.32	0.14	0.63	0.41	0.36	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81	1.7		
NW	0.32	0.41	0.50	1.04	0.15	0.45	0.77	0.72	0.68	0.50	0.14	0.00	0.00	0.00	0.00	2.54	2.2		
NNW	0.04	0.32	0.32	1.27	0.15	0.45	0.36	0.32	0.41	0.14	0.13	0.04	0.00	0.00	0.04	7.20	2.7		
N	0.00	0.32	0.45	1.00	0.16	0.59	0.41	0.13	0.09	0.00	0.00	0.00	0.00	0.00	0.00	4.75	2.5		
TOTAL	0.55	2.70	3.84	6.30	5.34	4.69	4.94	2.93	2.55	2.49	2.20	1.16	0.27	0.17	0.31	40.44	2.6		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 40.4

TABLE 159 - E

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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 +01.5 IN PERCENT										DATA USED -- WD10 , WS10 , DT100									
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION																			
SECTOR	0.0 TO 0.4	0.5 TO 0.9	1.0 TO 1.4	1.5 TO 1.9	2.0 TO 2.4	2.5 TO 2.9	3.0 TO 3.4	3.5 TO 3.9	4.0 TO 4.4	4.5 TO 4.9	5.0 TO 5.9	6.0 TO 6.9	7.0 TO 7.9	8.0 TO 8.9	9.0 TO INF	TOTAL	UBAR		
NNE	0.05	0.18	0.23	0.04	0.14	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.68	1.4		
NE	0.00	0.00	0.23	0.18	0.31	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	1.9		
ENE	0.05	0.04	0.27	0.36	0.36	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	1.7		
E	0.00	0.18	0.32	0.59	0.50	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.7		
ESE	0.00	0.09	0.32	0.36	0.31	0.09	0.27	0.32	0.04	0.00	0.09	0.14	0.00	0.00	0.00	2.04	2.7		
SE	0.14	0.18	0.27	0.41	0.31	0.04	0.14	0.14	0.18	0.04	0.00	0.04	0.00	0.00	0.00	1.90	2.2		
SSE	0.00	0.23	0.27	0.14	0.05	0.18	0.27	0.13	0.18	0.32	0.09	0.00	0.00	0.00	0.00	1.90	2.9		
S	0.09	0.36	0.18	0.05	0.18	0.00	0.00	0.05	0.05	0.00	0.04	0.00	0.00	0.00	0.00	1.13	2.2		
SSW	0.09	0.32	0.18	0.23	0.05	0.05	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	1.6		
SW	0.04	0.27	0.23	0.14	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	1.2		
WSW	0.00	0.68	0.23	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.9		
W	0.36	0.91	0.81	0.95	0.05	0.05	0.00	0.00	0.04	0.00	0.14	0.00	0.00	0.00	0.00	3.35	1.3		
WNW	0.18	0.63	0.50	0.32	0.36	0.53	0.36	0.32	0.14	0.09	0.18	0.00	0.00	0.00	0.00	3.58	2.2		
NW	0.04	0.45	0.41	0.45	0.18	0.14	0.18	0.23	0.14	0.09	0.13	0.00	0.00	0.00	0.00	2.44	2.2		
NNW	0.00	0.23	0.09	0.09	0.05	0.23	0.18	0.04	0.09	0.00	0.14	0.00	0.00	0.00	0.00	1.18	2.6		
N	0.14	0.59	0.14	0.32	0.18	0.27	0.04	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	1.77	1.6		
TOTAL	1.18	5.34	4.68	4.77	3.39	1.78	1.52	1.32	0.86	0.68	0.89	0.22	0.00	0.00	0.04	26.57	2.0		

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 26.7

TABLE 159 - F

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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		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	0.04	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	0.00	0.00	0.00	0.00	0.00	0.00	0.18	1.1	
NE	0.09	0.05	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.8	
ENE	0.00	0.05	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	1.3	
E	0.00	0.04	0.14	0.23	0.14	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	1.9	
ESE	0.18	0.18	0.18	0.36	0.05	0.00	0.05	0.04	0.00	0.00	0.04	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	1.04	1.3	
SE	0.09	0.32	0.09	0.05	0.05	0.09	0.05	0.05	0.04	0.00	0.09	0.05	0.04	0.04	0.00	0.00	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	0.59	0.9	
SSE	0.05	0.36	0.09	0.05	0.05	0.09	0.05	0.05	0.05	0.04	0.05	0.09	0.05	0.04	0.00	0.00	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	0.86	1.7	
S	0.09	0.14	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.05	0.04	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	2.2	
SSW	0.14	0.50	0.05	0.00	0.05	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.04	0.18	0.00	0.00	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	1.7	
SW	0.23	0.18	0.00	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	0.00	0.00	0.00	0.00	0.00	0.54	0.9	
WSW	0.05	0.32	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.8	
W	0.05	0.45	0.00	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	0.00	0.00	0.00	0.00	0.00	0.59	0.8	
WNW	0.18	0.50	0.14	0.05	0.00	0.09	0.00	0.05	0.00	0.00	0.09	0.05	0.04	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	1.09	1.2	
NW	0.09	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	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	0.41	1.0	
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	0.05	3.0	
N	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.6	
TOTAL	1.24	3.35	1.29	1.04	0.29	0.27	0.46	0.39	0.16	0.04	0.08	0.00	0.00	0.00	0.00	0.00	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	8.65	1.3	

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 8.7

TABLE 159 - G

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 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	0.14	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	0.14	0.5
NE	0.00	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	0.14	0.8
ENE	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	0.18	0.8
E	0.00	0.14	0.23	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	1.1
ESE	0.04	0.27	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	0.45	0.8
SE	0.04	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.6
SSE	0.05	0.14	0.09	0.00	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.35	1.5
S	0.00	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	0.18	1.9
SSW	0.09	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	1.0
SW	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	0.23	0.7
WSW	0.00	0.18	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	0.14	0.5
W	0.00	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	0.18	0.7
WNW	0.04	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	0.27	0.7
NW	0.04	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	0.00	0.09	0.6
NNW	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
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	0.0
TOTAL	0.35	1.94	0.82	0.00	0.08	0.00	0.04	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	3.31	0.9

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 3.3

TABLE 159 - ALL

DATA PERIOD 10/01/1992 THROUGH 12/31/1992 RUN FROM TAPE SERIES TRI-EX

OMAHA PUBLIC POWER DISTRICT  
FORT CALHOUN NUCLEAR STATION

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

DT100 = -INF TO +INF IN PERCENT										DATA USED -- WD10 , WS10 , DT100																							
SECTOR IS WIND DIRECTION NOT AFFECTED DIRECTION																																	
SECTOR	0.0		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		6.0		7.0		8.0		9.0		TOTAL	UBAR	
	TO	0.4	TO	0.9	TO	1.4	TO	1.9	TO	2.4	TO	2.9	TO	3.4	TO	3.9	TO	4.4	TO	4.9	TO	5.9	TO	6.9	TO	7.9	TO	8.9	TO	INF			
NNE		0.05		0.36		0.63		0.32		0.45		0.36		0.18		0.14		0.00		0.04		0.14		0.00		0.00		0.00		0.00		2.67	2.0
NE		0.09		0.23		0.50		0.45		0.68		0.18		0.23		0.09		0.13		0.00		0.00		0.00		0.00		0.00		0.00		2.58	1.9
ENE		0.05		0.27		0.72		0.68		0.63		0.41		0.23		0.27		0.14		0.04		0.14		0.00		0.00		0.00		0.00		3.58	2.2
E		0.00		0.41		0.81		1.13		0.86		0.59		0.68		0.54		0.41		0.36		0.05		0.00		0.00		0.00		0.00		5.84	2.4
ESE		0.23		0.73		0.68		0.91		0.77		0.36		0.95		0.77		0.63		0.45		1.04		0.54		0.05		0.00		0.00		8.11	3.1
SE		0.27		0.77		0.50		0.59		0.68		0.45		0.55		0.50		0.45		0.54		0.54		0.27		0.00		0.00		0.00		6.11	2.8
SSE		0.09		0.95		0.54		0.36		0.41		0.68		1.18		0.68		0.54		0.91		0.59		0.54		0.27		0.09		0.05		7.88	3.4
S		0.23		0.73		0.68		0.18		0.32		0.36		0.54		0.54		0.36		0.27		0.45		0.54		0.14		0.14		0.32		5.80	3.6
SSW		0.36		1.00		0.68		0.36		0.23		0.18		0.23		0.36		0.05		0.18		0.18		0.18		0.04		0.00		0.04		4.07	2.2
SW		0.32		0.59		0.68		0.50		0.45		0.05		0.00		0.00		0.09		0.09		0.00		0.00		0.00		0.00		0.00		2.81	1.6
WSW		0.09		1.54		1.09		0.63		0.32		0.41		0.05		0.04		0.00		0.00		0.00		0.00		0.00		0.00		0.00		4.17	1.3
W		0.41		1.86		1.04		1.77		0.54		0.63		0.59		0.00		0.14		0.14		0.13		0.00		0.00		0.00		0.00		7.25	1.7
WNW		0.77		1.81		1.40		1.77		1.90		2.04		1.81		1.36		1.04		0.59		0.32		0.05		0.00		0.00		0.04		14.90	2.4
NW		0.27		1.18		1.09		2.04		1.95		2.13		1.72		1.18		0.72		0.63		0.45		0.09		0.00		0.00		0.00		13.45	2.5
NNW		0.00		0.86		0.68		1.54		0.95		1.22		0.73		0.36		0.27		0.09		0.27		0.00		0.05		0.00		0.00		7.02	2.3
N		0.18		0.82		0.45		0.86		0.77		0.41		0.09		0.09		0.00		0.09		0.00		0.00		0.00		0.00		0.00		3.76	1.7
TOTAL		3.41		14.11		12.17		14.09		11.91		10.46		9.76		6.92		4.97		4.42		4.30		2.21		0.55		0.27		0.45		100.00	2.5

NUMBER OF INVALID OBSERVATIONS= 0.

PERCENT OF VALID OBSERVATIONS= 100.0



RELEASE NUMBER 92066

CONTAINMENT PURGE

STARTING TIME JULY 2, 1992 HOUR 13 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
13	7.6	305.0	-1.2
14	7.7	306.1	-1.4
15	6.7	304.6	-1.5
16	7.0	307.7	-1.6
17	7.8	307.9	-1.8
18	10.4	306.5	-1.5
19	10.1	304.0	-1.4
20	8.1	307.3	-1.1
21	7.7	305.9	-0.9
22	6.9	303.4	-0.6
23	1.9	304.0	0.4
24	2.1	304.6	0.4
1	2.3	297.7	0.1
2	1.9	301.6	0.4
3	1.8	310.6	0.6
4	1.7	306.2	0.7
5	2.2	311.5	0.3
6	2.0	313.7	0.5
7	1.0	270.0	0.2
8	1.5	246.5	-0.9
9	2.8	255.6	-1.6
10	3.4	269.8	-1.9
11	4.3	256.8	-2.1
12	4.7	280.1	-2.0
13	5.1	257.1	-2.0
14	3.8	271.6	-2.2
15	3.8	254.9	-2.1
16	4.6	241.4	-1.9
17	5.7	226.6	-1.6
18	6.4	211.5	-1.5
19	5.3	222.8	-1.2
20	2.2	184.4	-0.2
21	1.1	174.6	2.0
22	1.4	72.3	2.7
23	2.0	110.0	4.1
24	4.7	161.2	3.1

STOP TIME JULY 3, 1992 HOUR 23 MINUTE 40

RELEASE NUMBER 92067

CONTAINMENT PURGE

STARTING TIME JULY 6, 1992 HOUR 4 MINUTE 41

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
4	0.6	133.9	1.4
5	0.5	197.9	1.2
6	1.0	127.0	1.7
7	0.8	74.0	1.9
8	1.0	2.6	-0.3
9	1.2	0.4	-1.2
10	1.2	2.9	-1.5
11	1.2	3.2	-1.6
12	1.3	15.6	-1.7
13	1.3	58.6	-1.9
14	1.3	321.9	-2.0
15	1.3	5.4	-2.0
16	1.3	287.2	-1.9
17	1.4	45.8	-1.9
18	1.4	60.3	-1.8
19	1.4	86.7	-1.7
20	1.4	83.6	-1.6
21	1.5	65.3	-1.0
22	1.5	45.5	-0.7

STOP TIME JULY 6, 1992 HOUR 21 MINUTE 33



RELEASE NUMBER 92068      CONTAINMENT PURGE

STARTING TIME      JULY 6, 1992      HOUR 22 MINUTE 21

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
22	1.5	45.5	-0.7
23	1.5	42.3	-0.6
24	1.6	72.8	-0.9
1	1.6	84.8	-1.0
2	1.6	170.1	-0.8

STOP TIME      JULY 7, 1992      HOUR 1 MINUTE 26

STARTING TIME      JULY 7, 1992      HOUR 4 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
4	1.6	207.3	0.3
5	1.6	294.7	-0.5
6	1.6	305.9	-0.5
7	1.6	263.9	0.1
8	1.6	261.3	0.2
9	2.2	325.4	-0.8
10	2.6	236.3	-1.3
11	4.4	67.8	-1.4
12	3.0	262.0	-1.6

STOP TIME      JULY 7, 1992      HOUR 11 MINUTE 27

RELEASE NUMBER 92068

CONTAINMENT PURGE

STARTING TIME JULY 7, 1992 HOUR 13 MINUTE 8

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
13	4.9	100.4	-1.6
14	3.6	356.8	-1.8
15	3.0	359.7	-1.7
16	4.8	120.2	-1.4
17	6.3	84.9	-1.3
18	7.9	112.5	-1.3
19	6.1	97.4	-1.1
20	3.4	79.0	-0.8
21	5.3	123.6	-0.2
22	7.0	134.8	0.1
23	6.3	154.2	-0.3
24	2.1	292.2	-0.4

STOP TIME JULY 7, 1992 HOUR 23 MINUTE 15

STARTING TIME JULY 7, 1992 HOUR 23 MINUTE 45

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
23	6.3	154.2	-0.3
24	2.1	292.2	-0.4
1	2.0	311.9	-0.1
2	2.2	206.7	0.4

STOP TIME JULY 8, 1992 HOUR 1 MINUTE 14

RELEASE NUMBER 92069

CONTAINMENT PURGE

STARTING TIME JULY 8, 1992 HOUR 1 MINUTE 41

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
1	2.0	311.9	-0.1
2	2.2	206.7	0.4
3	3.5	165.1	0.9
4	2.8	279.1	0.4
5	2.1	52.7	0.3

STOP TIME JULY 8, 1992 HOUR 4 MINUTE 30

RELEASE NUMBER 92070

CONTAINMENT PURGE

STARTING TIME JULY 8, 1992 HOUR 4 MINUTE 30

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
4	2.8	279.1	0.4
5	2.1	52.7	0.3
6	1.9	252.8	0.4
7	1.8	242.7	0.1
8	2.6	314.6	-0.7
9	2.4	285.0	-1.4
10	4.7	318.3	-1.6

STOP TIME JULY 8, 1992 HOUR 9 MINUTE 15

RELEASE NUMBER 92071

CONTAINMENT PURGE

STARTING TIME JULY 8, 1992 HOUR 9 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
9	2.4	285.0	-1.4
10	4.7	318.3	-1.6
11	5.2	305.3	-1.8
12	5.3	312.2	-1.7
13	7.5	314.1	-1.7
14	7.2	312.5	-1.6
15	6.2	312.4	-1.4
16	5.0	316.0	-1.3
17	4.6	319.1	-1.2

STOP TIME JULY 8, 1992 HOUR 16 MINUTE 0

RELEASE NUMBER 92072		CONTAINMENT PURGE	
STARTING TIME		JULY 8, 1992 HOUR 22 MINUTE 45	
TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
22	1.5	243.0	1.7
23	1.1	131.8	2.0
24	1.5	145.6	2.6
1	1.3	322.6	3.0
2	1.1	188.7	3.2
3	1.4	202.6	3.7
4	2.2	106.8	3.3
5	1.5	320.3	2.7
6	1.3	328.7	3.3
7	0.6	238.0	2.8
8	1.6	254.9	1.3
9	1.5	290.0	-0.5

STOP TIME		JULY 9, 1992 HOUR 8 MINUTE 22	
-----------	--	-------------------------------	--

RELEASE NUMBER 92073      CONTAINMENT PURGE

STARTING TIME      JULY 9, 1992      HOUR 8 MINUTE 22

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
8	1.6	254.9	1.3
9	1.5	290.0	-0.5
10	2.7	165.1	-0.7
11	8.5	103.5	-1.4
12	4.2	98.8	-1.2
13	4.6	51.4	-0.9
14	5.8	144.1	-0.8
15	8.2	135.2	-0.9
16	8.1	161.2	-1.3
17	10.5	149.0	-1.4
18	11.0	144.6	-1.2
19	9.0	153.1	-1.2

STOP TIME      JULY 9, 1992      HOUR 18 MINUTE 22

STARTING TIME      JULY 9, 1992      HOUR 17 MINUTE 52

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
17	10.5	149.0	-1.4
18	11.0	144.6	-1.2
19	9.0	153.1	-1.2
20	8.4	158.0	-1.1
21	4.4	178.5	-0.9
22	2.4	295.4	-0.6
23	7.5	237.6	-0.1
24	3.0	195.0	-0.2
1	1.7	222.0	-0.2
2	2.9	223.5	0.4
3	1.1	285.0	0.2
4	2.6	297.0	0.1
5	2.7	291.5	-0.6

STOP TIME      JULY 10, 1992      HOUR 4 MINUTE 8

RELEASE NUMBER 92074

CONTAINMENT PURGE

STARTING TIME JULY 10, 1992 HOUR 6 MINUTE 57

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
6	2.6	305.3	-0.6
7	3.1	295.5	-0.8
8	2.0	293.1	-1.0
9	2.3	311.6	-1.2
10	4.0	314.0	-1.5
11	4.7	322.7	-1.6
12	5.0	334.4	-1.7
13	3.7	328.1	-1.6
14	3.4	342.5	-1.8
15	3.4	334.2	-1.9
16	3.2	330.6	-1.6
17	2.0	271.2	-1.5
18	1.7	336.5	-1.4
19	2.1	18.6	-1.1
20	1.3	241.3	-0.9
21	1.0	149.4	0.2
22	0.7	156.8	1.5
23	0.9	144.1	2.8
24	0.8	139.6	3.8
1	1.1	237.6	3.8
2	0.6	150.7	4.0
3	0.9	201.0	3.6
4	1.5	138.5	3.7
5	0.9	178.8	3.0
6	1.1	136.4	2.6

STOP TIME JULY 11, 1992 HOUR 5 MINUTE 0



RELEASE NAME - 92075		CONTAINMENT PURGE	
STARTING TIME		JULY 11, 1992	HOUR 12 MINUTE 54
TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	9.4	2.7	-0.6
13	11.8	14.3	-1.0
14	7.5	28.4	-1.5
15	6.4	17.7	-1.4
16	6.3	11.5	-1.6
17	6.0	46.3	-1.2
18	7.6	80.0	-1.1
19	9.5	85.4	-1.2
20	7.1	118.5	-0.8
21	5.0	119.0	-0.3
22	8.3	130.5	-0.1
23	10.7	138.9	-0.6
24	10.6	134.8	-0.8
1	8.8	127.3	-0.8
2	10.3	134.7	-0.8
3	9.6	138.7	-0.8
4	11.4	150.9	-0.8
5	14.3	177.2	-0.7
6	10.2	173.1	-0.2
7	3.7	220.8	-0.5
8	4.0	173.4	-0.5
9	6.4	178.7	-0.2
10	5.5	196.6	-1.3
11	2.4	227.3	-1.4
12	2.1	250.5	-1.6
13	3.2	324.3	-1.8
14	3.7	337.3	-1.6
15	2.7	331.4	-1.2
16	2.6	318.1	-1.0
17	2.0	321.0	-0.6
18	0.8	299.9	-0.8
19	1.6	326.7	-0.4
STOP TIME		JULY 12, 1992	HOUR 18 MINUTE 13

RELEASE NUMBER 92076      CONTAINMENT PURGE

STARTING TIME      JULY 13,1992      HOUR 0 MINUTE 28

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
1	3.3	356.4	-0.9
2	2.1	349.3	-1.0
3	2.3	331.7	-1.0
4	1.8	331.8	-0.9
5	1.9	15.5	-0.9
6	2.6	258.6	-0.7
7	3.5	198.2	-0.7
8	2.1	244.0	-0.4
9	1.7	318.2	-0.7
10	2.7	298.7	-0.5
11	4.5	308.3	-0.7
12	3.2	280.4	-1.5
13	3.1	267.2	-1.6
14	2.6	261.4	-1.6
15	2.3	290.5	-1.5
16	3.1	290.5	-1.5
17	3.2	314.3	-1.4
18	3.5	315.7	-1.2
19	3.7	319.4	-1.1
20	4.7	337.5	-1.2
21	3.3	316.9	-0.8

STOP TIME      JULY 13,1992      HOUR 20 MINUTE 52

STARTING TIME      JULY 13,1992      HOUR 22 MINUTE 57

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
22	1.2	257.0	0.1
23	1.3	253.5	0.4
24	3.1	296.4	-0.5
1	2.1	276.0	-0.4
2	1.3	272.5	0.3
3	2.2	274.4	-0.3
4	1.6	268.0	-0.7
5	1.3	265.5	-0.2
6	1.9	288.6	-0.4
7	3.6	290.2	-0.6
8	2.5	299.1	-1.0
9	4.2	292.0	-1.3

STOP TIME      JULY 14,1992      HOUR 8 MINUTE 52

RELEASE NUMBER 92076

CONTAINMENT PURGE

STARTING TIME JULY 14, 1992 HOUR 11 MINUTE 49

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
11	4.2	310.4	-1.5
12	4.8	313.1	-1.6
13	5.3	316.0	-1.8
14	5.1	317.2	-1.8
15	4.3	326.6	-1.7
16	3.3	326.5	-1.6
17	2.3	325.7	-1.6
18	2.3	319.7	-1.5
19	1.4	323.3	-1.1
20	1.1	354.8	-1.2
21	1.2	187.3	0.6
22	0.6	166.5	2.0
23	1.9	128.8	3.0
24	2.0	105.1	3.5
1	4.2	98.2	3.0
2	4.1	96.0	1.4
3	4.0	100.0	0.7

STOP TIME JULY 15, 1992 HOUR 2 MINUTE 25

STARTING TIME JULY 15, 1992 HOUR 3 MINUTE 10

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
3	4.0	100.0	0.7
4	2	97.3	0.6
5		100.1	0.6
6		100.0	0.5
7	5.3	106.6	-0.5
8	5.8	85.9	-0.7
9	7.9	106.0	-1.2
10	10.7	128.2	-1.4

STOP TIME JULY 15, 1992 HOUR 9 MINUTE 50

RELEASE NUMBER 92077 CONTAINMENT PURGE  
 STARTING TIME JULY 15, 1992 HOUR 9 MINUTE 50

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
9	7.9	106.0	-1.2
10	10.7	128.2	-1.4
11	9.9	134.6	-1.5
12	9.7	133.3	-1.5
13	6.8	107.7	-1.6
14	5.3	157.8	-1.4
15	4.0	84.9	-1.4
16	3.3	256.7	-1.3
17	5.4	316.7	-1.2
18	10.2	310.5	-1.3
19	7.5	312.5	-1.2
20	8.4	312.3	-1.1
21	8.3	310.3	-0.8
22	5.9	305.1	-0.5
23	4.0	305.5	-0.1
24	2.3	283.7	0.5
1	2.2	291.8	0.6
2	3.8	297.4	1.0
3	2.7	249.4	0.7
4	2.1	227.3	0.9
5	1.1	225.8	1.4
6	1.5	267.4	1.7
7	1.0	252.2	2.4
8	1.6	293.4	2.5
9	1.8	286.8	0.8
10	2.2	266.7	-1.1
11	2.4	318.6	-1.3
12	3.2	273.7	-1.7
13	3.9	267.6	-1.6
14	3.5	292.6	-1.6
15	5.3	309.3	-1.4
16	4.1	293.2	-1.6
17	3.4	276.0	-1.4
18	2.7	248.4	-1.2
19	1.7	257.0	-0.3
20	1.9	284.4	0.2
21	1.4	246.3	1.6
22	1.4	237.7	2.2
23	0.6	226.6	4.0
24	0.6	195.4	4.6
1	0.8	322.5	4.0
2	1.1	320.0	3.6
3	1.4	317.8	3.6
4	1.7	320.7	2.9
5	1.7	326.6	3.3

STOP TIME JULY 17, 1992 HOUR 4 MINUTE 12

RELEASE NUMBER 92078      CONTAINMENT PURGE

STARTING TIME      JULY 18, 1992      HOUR 8 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
8	0.9	164.8	1.5
9	1.3	289.3	-1.0
10	1.6	315.0	-1.6
11	2.4	296.1	-1.7
12	3.6	204.7	-1.5
13	2.7	182.1	-1.7
14	2.5	252.0	-1.6
15	2.1	347.3	-2.0
16	2.6	183.9	-1.5
17	2.8	335.8	-1.9

STOP TIME      JULY 18, 1992      HOUR 16 MINUTE 20

STARTING TIME      JULY 19, 1992      HOUR 5 MINUTE 34

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
5	2.6	300.9	1.9
6	3.0	110.2	1.8
7	1.6	175.5	2.8
8	3.6	105.2	0.3
9	3.5	140.6	-0.9
10	5.1	189.0	-1.3
11	6.0	202.9	-1.5
12	5.9	205.7	-1.6
13	5.3	210.7	-1.5
14	4.1	237.7	-1.4
15	3.9	240.4	-1.3
16	7.8	307.4	-1.1
17	6.1	313.1	-1.0
18	4.8	318.0	-0.5
19	2.8	210.6	-0.4
20	3.8	229.3	-0.1
21	1.5	273.7	0.1
22	1.3	244.7	1.1
23	1.5	288.2	1.0
24	3.7	305.1	-0.4
1	2.1	313.3	-0.7

STOP TIME      JULY 20, 1992      HOUR 0 MINUTE 41

RELEASE NUMBER 92079

CONTAINMENT PURGE

STARTING TIME JULY 20, 1992 HOUR 8 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
8	1.6	285.4	-0.4
9	3.8	312.8	-1.2
10	3.0	344.1	-1.4
11	2.8	358.7	-1.5
12	3.8	356.6	-1.7
13	5.4	332.7	-1.7
14	6.2	333.9	-1.7
15	5.8	325.9	-1.7
16	5.4	329.9	-1.6
17	5.3	318.8	-1.4
18	4.3	336.8	-1.5
19	4.9	332.6	-1.3
20	3.7	330.4	-0.9
21	1.9	298.8	-0.1
22	1.2	237.5	1.3
23	1.0	242.1	0.9
24	0.8	274.8	1.2
1	2.0	258.8	1.1
2	2.2	261.6	1.6
3	1.6	264.8	1.7
4	1.4	259.3	2.2
5	1.2	263.5	2.5
6	1.2	250.3	2.6
7	1.0	245.0	2.0
8	1.4	315.0	-0.5

STOP TIME JULY 21, 1992 HOUR 7 MINUTE 54

STARTING TIME JULY 21, 1992 HOUR 14 MINUTE 10

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	7.1	91.9	-1.6
15	6.7	85.7	-1.5
16	6.7	78.6	-1.3
17	8.0	70.4	-1.4
18	7.6	77.5	-1.2

STOP TIME JULY 21, 1992 HOUR 17 MINUTE 37

RELEASE NUMBER 92079 CONTAINMENT PURGE

STARTING TIME JULY 21, 1992 HOUR 19 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
19	7.3	91.6	-1.0
20	4.3	100.1	-0.7
21	4.4	99.0	-0.5
22	4.3	87.3	-0.6
23	5.0	74.1	-0.5
24	8.5	89.2	-0.7
1	8.7	87.6	-0.7

STOP TIME JULY 22, 1992 HOUR 0 MINUTE 32

STARTING TIME JULY 22, 1992 HOUR 2 MINUTE 30

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
2	9.1	124.1	-0.6
3	6.1	240.5	-0.6
4	12.9	105.1	-0.6
5	5.6	219.2	-0.9
6	2.3	292.8	-0.8
7	2.0	269.6	-0.6
8	1.8	191.7	-0.9
9	4.4	192.5	-0.9
10	4.7	215.1	-1.0
11	4.1	201.8	-1.3
12	6.2	204.3	-1.3
13	5.5	195.9	-1.5
14	6.0	207.9	-1.4

STOP TIME JULY 22, 1992 HOUR 13 MINUTE 19



RELEASE NUMBER 92080

CONTAINMENT PURGE

STARTING TIME JULY 23,1992 HOUR 12 MINUTE 43

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	4.5	322.7	-1.5
13	3.7	2.4	-1.4
14	1.8	275.8	-1.3

STOP TIME JULY 23,1992 HOUR 13 MINUTE 41

STARTING TIME JULY 23,1992 HOUR 15 MINUTE 18

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
15	3.4	340.2	-1.3
16	3.2	350.3	-1.4
17	3.4	15.5	-1.4
18	3.5	28.0	-1.4
19	3.6	52.0	-1.4
20	3.2	52.7	-1.2
21	3.4	65.3	-1.1
22	3.1	65.6	-1.0
23	2.2	65.2	-0.7
24	1.7	79.6	0.3
1	1.5	95.0	0.3
2	1.2	98.9	0.4
3	1.4	112.6	0.4
4	2.4	105.2	0.1
5	4.4	86.8	-0.4
6	4.0	90.1	-0.9
7	5.0	90.1	-0.9

STOP TIME JULY 24,1992 HOUR 6 MINUTE 50

RELEASE NUMBER 92081		CONTAINMENT PURGE	
STARTING TIME		JULY 24, 1992	
STOP TIME		JULY 26, 1992	
TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
18	7.0	74.1	-1.2
19	8.7	92.9	-1.4
20	8.2	332.3	-1.3
21	5.3	99.2	-0.9
22	4.5	82.0	-0.9
23	4.9	90.4	-0.9
24	4.3	109.2	-0.8
1	3.7	87.1	-0.6
2	2.2	101.8	-0.4
3	2.0	102.2	-0.1
4	2.3	128.2	0.4
5	4.5	184.0	0.1
6	7.0	188.4	-0.2
7	7.0	180.5	-0.5
8	6.7	187.4	-0.6
9	7.4	166.7	-1.0
10	4.8	150.5	-1.3
11	3.8	91.7	-1.5
12	3.8	340.4	-1.8
13	3.2	35.0	-1.6
14	3.7	19.1	-1.1
15	4.1	229.5	-0.7
16	3.9	303.5	-0.9
17	5.5	332.9	-0.9
18	5.2	252.1	-0.7
19	3.7	226.0	-0.9
20	3.5	308.0	-0.8
21	3.8	304.7	-0.7
22	2.3	282.7	-0.1
23	1.1	271.9	0.6
24	0.8	266.2	2.2
1	1.3	266.3	2.0
2	0.9	279.9	2.1
3	0.9	268.8	1.4
4	0.8	257.5	0.9
5	0.6	257.3	0.8
6	0.7	253.1	0.8
7	1.1	290.1	0.3
8	1.8	285.5	-0.4

RELEASE NUMBER 92082 CONTAINMENT PURGE  
 STARTING TIME JULY 29, 1992 HOUR 18 MINUTE 11

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
18	4.6	8.8	-1.6
19	4.7	6.2	-1.4
20	3.7	28.3	-1.2
21	6.6	75.2	-1.1
22	5.5	49.3	-1.2
23	4.3	23.1	-1.0
24	5.6	13.6	-1.3
1	3.6	39.3	-1.2
2	3.2	48.0	-0.8
3	3.4	37.2	-0.9
4	6.6	39.2	-0.6
5	5.3	191.3	-1.0
6	2.3	296.1	-0.5
7	2.1	284.3	-0.9
8	4.3	303.5	-1.0
9	5.1	302.8	-1.2
10	5.1	305.3	-1.4
11	5.7	306.7	-1.6
12	5.4	306.7	-1.4
13	5.7	310.6	-1.8
14	6.5	311.1	-1.7
15	5.7	315.2	-1.7
16	5.3	310.8	-1.5
17	5.1	318.7	-1.5
18	6.1	322.6	-1.2
19	7.6	323.0	-1.3
20	5.4	324.0	-1.1
21	4.3	316.3	-1.1
22	3.7	310.1	-0.9
23	2.0	258.6	0.2
24	2.6	273.5	1.2
1	1.4	258.6	1.4
2	1.1	259.7	1.3
3	1.1	222.9	0.4
4	1.0	276.9	1.0
5	0.9	302.7	1.8
6	0.9	260.7	1.1
7	0.8	307.2	1.2
8	1.3	278.0	0.1
9	2.7	284.4	-1.3
10	2.9	307.9	-1.5
11	2.5	328.2	-1.9
12	3.2	353.2	-1.7
13	2.6	306.4	-1.5
14	3.3	342.6	-1.5
15	3.0	339.0	-1.6
16	2.5	269.0	-1.7
17	2.0	319.3	-1.6
18	2.0	221.7	-1.6

19	1.7	166.2	-1.4
20	2.4	155.8	-0.8
21	2.1	117.0	1.0
22	0.7	128.9	2.6
23	3.7	162.3	2.5
24	5.5	172.9	2.4
1	6.6	171.3	2.8
2	7.7	169.2	3.0
3	7.1	155.6	2.7
4	6.2	154.8	2.5
5	7.8	165.5	2.4
6	8.5	170.8	2.2
7	7.6	171.2	1.8
8	5.3	159.6	0.1
9	3.3	131.6	-1.2
10	4.7	141.5	-1.5
11	7.5	158.1	-1.6
12	9.3	166.2	-1.7
13	8.2	150.9	-1.7
14	7.8	151.9	-1.6
15	10.1	143.4	-1.8
16	9.0	153.5	-1.6
17	8.9	154.2	-1.5
18	8.0	152.5	-1.2
19	7.8	150.2	-1.3
20	5.8	141.4	-0.9
21	4.7	129.5	-0.1
22	5.0	131.7	0.4
23	5.7	137.9	0.3
24	5.2	139.7	0.3
1	5.1	75.9	0.2
2	7.6	99.3	0.1
3	10.0	79.3	-0.5
4	9.7	120.9	-0.4
5	3.9	188.9	-0.1
6	1.9	112.2	0.4
7	2.4	65.9	0.3
8	3.4	209.8	-0.4
9	2.6	230.3	-1.1
10	5.9	213.1	-1.4
11	6.3	215.8	-1.7
12	6.7	235.1	-1.8
13	5.8	256.9	-1.8
14	5.2	244.4	-1.7
15	4.5	239.7	-1.8
16	5.3	239.6	-1.6
17	4.9	236.6	-1.4
18	4.2	236.6	-1.3
19	3.9	321.1	-1.0
20	2.5	314.7	-0.5
21	1.0	266.8	1.5
22	0.3	229.7	3.2
23	0.7	262.9	3.7
24	0.4	241.5	4.4
1	1.2	159.5	4.0

2	1.3	132.6	5.1
3	1.6	160.5	6.0
4	0.8	275.4	5.9

STOP TIME    AUG    3, 1992    HOUR   3 MINUTE 46

RELEASE NUMBER 92083      CONTAINMENT PURGE

STARTING TIME      AUG    6,1992      HOUR 20 MINUTE 52

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
20	7.8	103.3	-1.0
21	5.4	95.3	-0.2
22	5.9	107.4	0.1

STOP TIME      AUG    6,1992      HOUR 21 MINUTE 30

STARTING TIME      AUG    7,1992      HOUR 1 MINUTE 37

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
1	7.1	103.1	-0.6
2	8.3	106.1	-0.6
3	9.0	102.4	-0.6
4	12.1	120.3	-0.8
5	10.3	146.6	-0.2
6	9.1	168.4	-0.5
7	11.3	185.4	-0.5
8	9.5	193.9	-0.5
9	10.6	190.8	-0.2
10	6.5	176.6	-1.1
11	5.5	196.3	-1.5
12	5.0	192.5	-1.5

STOP TIME      AUG    7,1992      HOUR 11 MINUTE 39

RELEASE NUMBER 92084

CONTAINMENT PURGE

STARTING TIME AUG 7, 1992 HOUR 21 MINUTE 2

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
21	0.8	171.5	1.3
22	1.0	125.7	2.4
23	1.2	147.7	2.6
24	1.7	112.2	4.0
1	1.4	117.0	3.6
2	0.8	345.6	3.6
3	1.2	98.0	3.8
4	0.8	313.7	5.5
5	0.8	270.7	5.0
6	1.4	112.3	5.6
7	1.4	212.2	5.7
8	1.5	99.3	4.8
9	2.5	102.4	0.9
10	2.8	299.4	-0.9
11	3.2	305.1	-1.6
12	6.4	119.1	-1.6
13	7.4	114.6	-1.6
14	8.1	147.9	-1.5
15	8.0	154.1	-1.5
16	8.1	154.3	-1.3
17	5.9	142.7	-1.1
18	4.9	120.3	-1.1
19	5.1	127.5	-0.8
20	4.2	124.1	-0.8
21	4.3	119.1	0.1
22	3.3	121.1	0.9
23	4.6	123.6	1.2
24	5.3	128.6	0.7
1	5.6	139.0	-0.2
2	5.8	148.3	-0.2
3	5.8	146.3	-0.3
4	7.0	150.5	-0.4
5	7.7	159.1	-0.4
6	8.7	164.4	-0.5
7	9.5	167.8	-0.6
8	8.5	168.3	-0.7
9	9.6	194.6	-1.0
10	8.6	183.7	-1.2
11	9.9	166.6	-1.5
12	10.2	171.6	-1.4
13	10.5	172.2	-1.3
14	8.2	167.7	-1.4
15	8.4	159.2	-1.3
16	7.9	171.1	-1.3
17	7.7	169.8	-1.4
18	5.8	151.5	-1.2
19	4.7	154.1	-1.1
20	2.7	134.5	-0.7
21	1.6	146.8	0.9



22	1.9	131.5	2.7
23	2.3	113.9	2.4
24	2.4	89.0	1.4
1	2.3	307.6	0.8
2	1.0	63.2	1.0
3	2.2	279.9	0.9
4	2.1	197.8	0.3
5	4.6	300.5	1.0
6	1.9	280.0	0.2
7	1.6	272.0	0.5

STOP TIME    AUG 10, 1992    HOUR 6 MINUTE 5

RELEASE NUMBER 92085

CONTAINMENT PURGE

STARTING TIME AUG 13, 1992 HOUR 14 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	2.0	308.1	-1.5
15	4.0	81.1	-1.5
16	3.1	74.8	-1.4
17	2.5	155.5	-1.1
18	1.0	275.1	-0.3
19	1.5	120.5	-0.1
20	1.7	274.2	0.6
21	1.3	290.9	1.4
22	0.8	242.7	1.9
23	1.3	226.3	1.8
24	1.5	259.3	1.5
1	1.3	258.9	1.5
2	1.9	271.0	0.7
3	1.9	277.1	0.7
4	2.5	264.0	1.0
5	2.5	256.6	1.4
6	2.2	260.9	1.1
7	2.5	306.3	-0.3
8	2.7	341.0	-0.8
9	2.8	344.7	-1.1
10	3.5	14.3	-1.4
11	4.2	42.6	-1.8
12	4.7	151.0	-2.0
13	4.9	235.3	-2.0
14	4.1	34.9	-1.5
15	4.6	35.7	-1.9
16	4.5	359.9	-1.6
17	4.5	22.4	-1.7
18	4.4	44.6	-1.5
19	3.6	21.0	-1.4
20	2.4	3.7	-0.9
21	0.9	242.0	1.0
22	0.8	229.4	2.3
23	0.9	251.9	2.5
24	0.5	169.9	2.1
1	1.1	243.8	3.6
2	0.3	201.5	3.9
3	0.9	200.8	3.2
4	0.7	222.3	3.4
5	0.6	191.0	3.3
6	1.0	219.4	3.3
7	0.8	208.3	3.2
8	1.2	227.1	3.1
9	1.1	193.9	0.9
10	1.7	332.2	-0.9
11	3.9	64.4	-1.5
12	3.9	196.4	-1.5
13	3.0	218.5	-1.6
14	4.4	314.3	-1.5

15	4.8	172.8	-1.6
16	5.7	133.6	-1.7
17	5.1	96.5	-1.4
18	6.0	84.0	-1.5
19	5.8	90.3	-1.1
20	3.9	111.0	-0.6
21	3.2	107.5	0.6
22	3.3	112.7	1.2
23	4.2	110.9	1.7
24	5.0	100.6	1.7
1	5.1	110.6	1.3
2	5.0	119.5	1.0
3	4.7	105.6	1.3
4	5.2	113.2	1.3
5	4.6	112.9	1.6
6	5.0	102.5	1.6
7	5.3	108.6	1.2
8	6.0	106.6	0.8
9	6.4	107.9	-0.5
10	7.9	131.9	-1.0
11	5.8	134.4	-1.2
12	6.9	125.0	-1.1
13	6.1	111.9	-1.2
14	8.5	114.5	-1.6
15	10.1	123.7	-1.7
16	10.5	127.2	-1.7
17	9.1	121.7	-1.7
18	8.8	123.9	-1.4
19	9.6	119.5	-1.2
20	6.6	121.5	-0.9
21	6.2	124.1	-0.2
22	5.3	113.2	-0.2
23	5.3	114.7	0.6
24	5.4	116.3	0.3
1	6.9	127.1	-0.3
2	7.0	124.1	-0.3
3	7.4	123.1	-0.5
4	6.5	124.2	-0.3
5	6.4	115.0	-0.3
6	5.7	105.5	0.5
7	7.1	107.4	0.3
8	7.4	115.8	-0.2

STOP TIME      AUG    17, 1992      HOUR    7 MINUTE    17

RELEASE NUMBER 92086		CONTAINMENT PURGE	
STARTING TIME		AUG 20, 1992	HOUR 20 MINUTE 24
TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
20	5.9	124.6	-0.4
21	4.8	119.6	0.7
22	5.0	118.4	1.3
23	5.9	122.8	1.4
24	6.6	132.2	0.4
1	8.3	139.1	-0.2
2	9.5	140.9	-0.4
3	8.6	139.0	-0.4
4	8.0	133.7	-0.4
5	7.3	136.3	-0.2
6	6.9	144.4	-0.1
7	5.0	130.4	-0.1
8	6.6	134.2	-0.1
9	9.7	137.4	-0.8
10	10.2	148.9	-1.4
11	10.7	159.0	-1.8
12	8.2	156.8	-1.8
13	7.7	159.5	-1.7
14	7.1	154.1	-1.8
15	8.0	144.9	-1.7
16	9.0	141.0	-1.6
17	8.9	137.0	-1.5
18	8.4	133.3	-1.4
19	6.9	71.9	-1.2
20	6.1	63.3	-0.8
21	6.0	71.6	0.2
22	5.9	73.0	0.5
23	6.3	62.7	0.8
24	7.0	49.4	0.6
1	7.1	43.9	0.1
2	5.9	51.0	1.0
3	6.3	60.3	0.8
STOP TIME	AUG 22, 1992	HOUR 2 MINUTE 38	

STARTING TIME      AUG 22, 1992      HOUR 5 MINUTE 39

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
5	5.9	109.3	1.2
6	5.8	117.4	1.5
7	5.9	125.8	0.1
8	6.5	125.4	-0.4
9	6.9	125.0	-0.7
10	7.3	124.6	-1.0
11	7.7	124.2	-1.2
12	8.3	123.9	-1.4

STOP TIME      AUG 22, 1992      HOUR 11 MINUTE 33

RELEASE NUMBER 92085      CONTAINMENT PURGE

STARTING TIME      AUG 22, 1992      HOUR 14 MINUTE 5

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	13.6	151.6	-1.6
15	12.7	138.7	-1.5
16	12.8	145.7	-1.5
17	13.1	134.2	-1.5
18	11.9	136.0	-1.4
19	10.5	127.4	-1.0

STOP TIME      AUG 22, 1992      HOUR 18 MINUTE 36

RELEASE NUMBER 92087

CONTAINMENT PURGE

STARTING TIME AUG 23,1992 HOUR 1 MINUTE 26

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
1	11.2	134.5	-0.5
2	11.4	139.6	-0.6
3	10.5	138.8	-0.6
4	10.6	138.0	-0.5
5	10.5	140.1	-0.5
6	12.2	141.1	-0.5
7	12.3	138.3	-0.5
8	11.9	135.1	-0.8
9	13.5	137.7	-1.1
10	13.5	133.7	-1.4
11	13.1	135.9	-1.5
12	15.2	135.8	-1.5
13	14.0	141.4	-1.5
14	14.1	147.8	-1.5
15	14.6	147.3	-1.5
16	12.7	144.2	-1.5
17	12.5	152.1	-1.2
18	12.3	144.4	-1.1
19	10.2	136.9	-0.9
20	7.0	191.7	-0.5
21	6.3	117.9	0.2
22	6.9	107.7	0.8
23	7.5	116.3	0.3
24	11.1	133.3	-0.6
1	11.3	139.0	-0.7
2	10.4	143.8	-0.7

STOP TIME AUG 24,1992 HOUR 1 MINUTE 37

STARTING TIME AUG 24,1992 HOUR 1 MINUTE 42

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
1	11.3	139.0	-0.7
2	10.4	143.8	-0.7
3	10.6	147.4	-0.7
4	8.2	155.7	-0.7
5	6.9	152.6	-0.6
6	6.0	140.6	-0.6
7	5.3	120.0	-0.3
8	4.8	120.4	-0.2
9	5.4	130.7	-1.0
10	8.7	157.8	-1.4
11	10.9	164.2	-1.5

STOP TIME AUG 24,1992 HOUR 10 MINUTE 6



RELEASE NUMBER 92087      CONTAINMENT PURGE

STARTING TIME      AUG 24, 1992      HOUR 12 MINUTE 55

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	10.9	165.2	-1.6
13	11.4	176.1	-1.7
14	9.2	174.0	-1.5
15	8.6	177.3	-1.4
16	7.7	163.2	-1.3
17	7.2	139.7	-1.2
18	6.0	136.1	-0.8
19	5.5	287.3	-1.0
20	6.2	306.5	-1.1
21	5.6	307.6	-1.2
22	4.6	303.2	-1.0
23	4.8	309.0	-1.1
24	5.8	300.2	-1.0
1	5.0	303.3	-0.9
2	5.0	317.6	-1.2
3	4.0	317.0	-1.1
4	4.2	313.4	-1.2
5	4.8	326.3	-1.0
6	4.2	313.7	-1.0
7	4.6	328.8	-0.9
8	4.9	307.8	-0.9

STOP TIME      AUG 25, 1992      HOUR 7 MINUTE 49

STARTING TIME      AUG 25, 1992      HOUR 19 MINUTE 36

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
19	6.9	303.5	-1.3
20	5.3	301.9	-1.1
21	5.9	303.8	-1.1
22	5.4	308.0	-1.0
23	4.2	308.4	-1.0
24	4.5	311.9	-1.1
1	4.2	299.5	-0.9
2	4.4	297.7	-0.9
3	4.3	298.3	-0.7
4	4.8	310.3	-1.0
5	4.3	309.9	-1.0
6	4.1	316.4	-1.0
7	3.6	316.5	-1.1

STOP TIME      AUG 26, 1992      HOUR 6 MINUTE 17

RELEASE NUMBER 92088      CONTAINMENT PURGE

STARTING TIME      AUG 30,1992      HOUR 14 MINUTE 54

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	5.8	290.2	-2.2
15	4.9	298.7	-2.3
16	4.7	275.8	-2.1
17	4.4	246.4	-2.0
18	2.9	245.3	-1.8
19	2.3	283.4	-1.3
20	1.5	261.8	0.7
21	1.4	233.3	2.9
22	1.4	234.9	3.5
23	0.7	223.2	3.9
24	1.2	172.0	4.1
1	1.1	122.9	5.2
2	0.6	166.9	5.3
3	0.7	141.6	5.6

STOP TIME      AUG 31,1992      HOUR 2 MINUTE 16

STARTING TIME      AUG 31,1992      HOUR 3 MINUTE 21

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
3	0.7	141.6	5.6
4	0.9	118.9	5.6
5	0.6	239.2	5.8
6	0.7	234.4	5.7
7	1.5	119.5	6.1
8	0.8	171.6	5.3
9	0.9	252.6	1.4

STOP TIME      AUG 31,1992      HOUR 8 MINUTE 52

RELEASE NUMBER 92088 CONTAINMENT PURGE  
 STARTING TIME AUG 31, 1992 HOUR 11 MINUTE 58

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
11	5.5	133.4	-1.8
12	5.3	111.0	-1.8
13	6.8	91.9	-1.8
14	6.9	91.8	-1.7
15	6.7	130.5	-1.8
16	5.8	192.0	-1.8
17	5.8	132.2	-1.6
18	4.6	72.8	-1.5
19	3.0	86.0	-0.8
20	1.4	115.5	-0.1
21	2.0	101.5	0.7
22	3.2	110.5	0.9
23	3.7	100.4	0.7
24	3.8	110.0	0.7
1	3.6	114.6	1.0
2	4.7	109.5	0.7
3	4.7	100.4	1.2
4	4.7	89.9	0.8
5	6.0	94.2	0.3
6	7.3	110.1	-0.5
7	6.4	104.2	-0.5
8	6.9	103.6	-0.6
9	7.1	110.1	-1.2
10	7.4	106.6	-1.4
11	9.2	100.8	-1.6
12	6.8	120.1	-1.5
13	10.3	134.0	-1.4
14	10.0	131.4	-0.9
15	8.9	102.4	-1.2
16	8.8	113.0	-1.3
17	6.7	115.8	-1.0
18	9.3	120.3	-0.6
19	7.7	125.0	-1.1

STOP TIME SEPT 1, 1992 HOUR 18 MINUTE 17

STARTING TIME    SEPT 1, 1992    HOUR 11 MINUTE 5

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
11	9.2	100.8	-1.6
12	6.8	120.1	-1.5

STOP TIME    SEPT 1, 1992    HOUR 11 MINUTE 48

RELEASE NUMBER 92088 CONTAINMENT PURGE  
 STARTING TIME SEPT 1, 1992 HOUR 14 MINUTE 25

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	10.0	131.4	-0.9
15	8.9	102.4	-1.2
16	8.8	113.0	-1.3
17	6.7	115.8	-1.0
18	9.3	120.3	-0.6
19	7.7	125.0	-1.1
20	5.8	119.6	-0.7
21	8.1	115.9	-0.8
22	7.6	129.4	-0.6
23	7.5	130.5	-0.9
24	5.1	120.7	-0.8
1	3.6	114.6	-0.6
2	5.2	109.5	-0.7
3	4.1	100.4	-0.5
4	3.6	89.9	-0.4
5	5.5	94.2	-0.4
6	5.6	110.1	-0.4
7	2.1	104.2	-0.5
8	6.8	103.6	-0.1
9	4.7	110.1	-1.0
10	6.6	106.6	-1.5
11	6.2	100.8	-1.7
12	5.0	120.1	-1.8
13	4.7	134.0	-2.0
14	3.9	131.4	-2.0
15	4.1	102.4	-2.0
16	3.5	113.0	-1.8
17	4.4	115.8	-1.6
18	4.7	120.3	-1.1
19	2.7	125.0	-0.7
20	1.9	119.6	2.0
21	2.0	115.9	3.0
22	2.6	129.4	1.2
23	2.5	130.5	0.4
24	1.5	120.7	1.3
1	1.6	114.6	2.1
2	1.3	109.5	2.7
3	1.4	100.4	1.8
4	0.5	89.9	2.9
5	1.3	94.2	4.1
6	1.1	110.1	4.7
7	0.6	104.2	4.8
8	0.9	103.6	4.3

STOP TIME SEPT 3, 1992 HOUR 7 MINUTE 15

RELEASE NUMBER 92089

CONTAINMENT PURGE

STARTING TIME SEPT 3, 1992 HOUR 18 MINUTE 58

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
18	7.3	120.3	-1.2
19	5.9	125.0	-0.6
20	5.4	119.6	0.9
21	6.0	115.9	1.3
22	6.0	129.4	2.6
23	7.2	130.5	1.6
24	8.3	120.7	0.9
1	8.5	114.6	0.1
2	8.5	109.5	-0.1
3	10.2	100.4	-0.6
4	11.6	89.9	-0.5
5	12.7	94.2	-0.7
6	10.5	110.1	-0.5
7	9.7	104.2	-0.4
8	9.3	103.6	-0.3
9	8.9	110.1	-1.2
10	10.0	106.6	-1.5
11	11.1	100.8	-1.7
12	11.4	120.1	-1.6
13	11.8	134.0	-1.7
14	11.6	131.4	-1.6
15	11.0	102.4	-1.4
16	10.2	113.0	-1.4
17	9.5	115.8	-1.1
18	9.0	120.3	-0.9
19	10.7	125.0	-0.6
20	11.7	119.6	-0.7
21	13.0	115.9	-0.7
22	12.5	129.4	-0.7
23	12.6	130.5	-0.4
24	10.3	120.7	-0.6
1	8.6	122.8	-1.0
2	11.1	125.3	-1.0
3	12.8	132.2	-1.3
4	12.3	137.3	-1.3
5	14.3	137.8	-1.3
6	12.8	151.8	-1.6
7	7.5	140.5	-1.3
8	5.9	114.1	-1.2
9	7.6	127.9	-1.5
10	9.6	121.3	-1.4
11	7.7	104.0	-1.7
12	8.8	112.0	-1.7
13	8.2	111.1	-2.2
14	10.2	128.9	-2.6
15	7.9	141.4	-2.4
16	6.0	200.6	-2.2
17	6.5	317.2	-2.5
18	5.0	314.6	-2.0

19	3.9	319.5	-1.9
20	2.1	342.3	-1.4
21	2.0	293.5	-0.2
22	2.9	299.6	0.8
23	2.3	292.2	1.0
24	2.8	286.8	0.7
1	2.2	271.0	0.8
2	1.6	277.0	0.3
3	1.5	268.8	1.4
4	1.0	254.8	1.7
5	1.2	276.4	1.7
6	1.2	276.5	1.7
7	0.8	230.6	2.2
8	0.8	286.6	2.0
9	1.7	319.3	-0.6

STOP TIME    SEPT 6, 1992    HOUR 8 MINUTE 56

RELEASE NUMBER 92090

CONTAINMENT PURGE

STARTING TIME SEPT 9, 1992 HOUR 14 MINUTE 46

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	10.2	299.7	-2.0
15	10.6	304.2	-1.9
16	9.3	303.3	-1.7
17	8.0	302.2	-1.6
18	7.7	296.8	-1.5
19	5.1	303.9	-0.9
20	3.2	305.2	0.6
21	2.2	306.7	1.9
22	1.5	300.6	1.8
23	1.3	214.2	1.4
24	1.0	264.9	2.9
1	1.2	206.7	3.1

STOP TIME SEP. 10, 1992 HOUR 0 MINUTE 17

STARTING TIME SEPT 10, 1992 HOUR 1 MINUTE 8

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
1	1.2	206.7	3.1
2	1.1	257.7	2.4
3	2.2	230.2	2.6
4	3.0	253.3	3.5
5	2.2	259.2	4.1
6	1.8	300.2	4.3
7	2.2	265.2	2.4
8	3.5	268.4	0.6
9	3.7	277.0	-1.0
10	5.6	296.7	-1.6
11	6.3	293.6	-2.0
12	6.1	290.7	-2.3
13	5.4	275.4	-2.4
14	6.9	282.4	-2.3
15	5.9	275.7	-2.4
16	5.0	287.1	-2.2
17	5.2	296.7	-1.9
18	4.4	309.4	-1.7
19	2.3	307.5	-1.0
20	0.8	197.1	1.5
21	0.7	197.4	3.5
22	0.9	133.6	4.7
23	2.2	112.2	5.6
24	2.2	106.9	6.1
1	1.8	99.2	6.5
2	1.6	114.8	7.0
3	1.5	166.9	5.6



4	1.1	65.6	3.8
5	2.2	72.2	4.3
6	4.1	83.9	3.3
7	3.7	87.7	3.1
8	3.9	167.4	1.9
9	7.2	139.4	-0.4
10	7.8	131.7	-1.4
11	9.5	143.6	-1.7
12	11.3	155.5	-1.7
13	12.3	147.0	-1.8
14	11.9	140.6	-1.9
15	13.4	128.4	-1.6
16	11.9	102.6	-1.6
17	12.1	105.0	-1.5
18	10.1	125.5	-1.3
19	8.4	131.7	-0.8
20	6.9	125.9	0.2
21	5.7	111.7	1.5
22	6.2	114.0	1.3
23	7.0	118.7	0.6
24	8.7	128.6	-0.1
1	9.9	132.8	-0.3
2	9.2	128.8	-0.5
3	9.1	129.3	-0.4
4	8.9	118.1	-0.6
5	10.1	116.7	-0.8
6	9.6	50.7	-0.9
7	10.4	21.6	-0.7
8	8.7	21.3	-0.7
9	9.9	10.9	-1.0
10	11.6	11.6	-1.2
11	12.7	10.7	-1.7
12	12.6	23.8	-1.6
13	13.0	32.6	-1.9
14	14.4	43.0	-1.7
15	14.6	57.0	-1.7
16	14.9	71.5	-1.3
17	10.3	69.9	-1.3
18	11.3	71.1	-1.1
19	11.1	73.1	-0.8
20	12.5	67.3	-0.6
21	13.7	59.8	-0.7
22	15.4	55.9	-0.8
23	15.4	49.1	-0.8
24	17.0	48.6	-0.9
1	15.6	52.2	-0.9
2	15.2	62.5	-0.7
3	15.2	50.6	-0.8
4	14.1	51.2	-0.8
5	11.0	39.8	-0.6
6	8.4	53.2	-0.6
7	7.7	40.5	-0.5
8	7.8	48.9	-0.4
9	10.5	59.6	-1.0
10	13.0	71.2	-1.4

11 14.4 85.3 -1.5  
12 15.6 94.6 -1.5

STOP TIME SEPT 13, 1992 HOUR 11 MINUTE 43

RELEASE NUMBER 92090

CONTAINMENT PURGE

STARTING TIME      SEPT 13, 1992      HOUR 12 MINUTE 33

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	15.6	94.6	-1.5
13	11.7	97.6	-1.5
14	10.0	114.2	-1.6
15	10.0	120.7	-1.5
16	10.7	135.9	-1.5
17	8.1	158.3	-1.3
18	4.3	173.1	-1.1
19	1.7	102.4	-0.2
20	3.2	109.1	1.3
21	3.2	185.7	1.8
22	2.1	321.7	2.3
23	1.4	294.9	2.5
24	1.3	257.7	2.9
1	0.7	243.4	3.5
2	4.6	158.1	0.1
3	8.5	144.4	-0.6
4	9.6	153.1	-0.6
5	6.3	221.2	-0.6
6	4.7	320.2	-0.6

STOP TIME      SEPT 14, 1992      HOUR 5 MINUTE 27

RELEASE NUMBER 92091 CONTAINMENT PURGE  
 STARTING TIME SEPT 17, 1992 HOUR 12 MINUTE 50

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	7.7	163.2	-1.8
13	8.5	168.6	-1.7
14	8.8	139.3	-1.6
15	10.3	150.6	-1.7
16	11.3	165.6	-1.6
17	9.5	171.6	-1.5
18	9.0	170.4	-1.2
19	7.3	159.3	-0.5
20	4.7	154.1	0.4
21	2.1	117.4	2.1
22	3.7	267.7	1.8
23	6.3	260.7	2.0
24	3.8	301.4	-0.6
1	4.9	302.2	-0.4
2	6.4	320.3	-0.8
3	6.7	318.9	-0.7
4	5.1	305.4	-0.8
5	6.0	300.1	-0.8
6	8.5	301.1	-0.8
7	8.4	298.9	-0.6
8	9.2	296.4	-0.6
9	9.5	298.8	-1.0
10	8.0	296.6	-1.7
11	7.6	301.6	-1.9
12	9.1	299.3	-1.9
13	7.9	311.4	-1.9
14	7.2	306.8	-2.2
15	6.8	295.0	-2.0
16	6.9	301.9	-2.0
17	6.5	307.4	-1.8
18	5.6	310.4	-1.4
19	4.1	313.0	-0.9
20	2.2	261.9	0.8
21	0.8	206.7	3.1
22	0.9	183.7	3.8
23	0.8	276.8	4.0
24	0.8	234.8	4.1
1	1.5	121.3	5.0
2	1.4	138.8	5.5
3	1.6	127.6	6.3
4	1.5	119.5	6.1
5	3.2	87.8	5.4
6	5.3	83.1	4.1
7	4.7	120.7	3.7
8	2.5	186.6	2.6
9	6.1	126.7	0.1
10	7.6	119.6	-1.3
11	10.8	134.0	-1.7
12	11.5	135.6	-1.9

13	10.4	134.3	-2.1
14	10.6	142.2	-1.9
15	9.7	136.9	-1.9
16	9.6	137.0	-2.0
17	9.3	139.5	-1.7
18	8.1	131.2	-1.5
19	7.0	124.7	-0.9
20	6.2	126.0	0.5
21	6.1	128.8	0.7
22	5.8	122.8	0.4
23	7.7	129.3	-0.2
24	6.1	132.6	-0.1

STOP TIME      SEPT 19, 1992      HOUR 23 MINUTE 25

RELEASE NUMBER 92092

CONTAINMENT PURGE

STARTING TIME

SEPT 23, 1992

HOUR 16 MINUTE 34

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
16	11.8	134.3	-1.9
17	11.6	129.5	-1.7
18	10.5	132.7	-1.4
19	7.4	126.6	-0.9
20	6.7	124.0	0.3
21	7.4	123.7	0.3
22	7.7	124.2	0.1
23	9.0	124.2	-0.1
24	9.5	122.7	-0.3
1	8.8	122.4	-0.2
2	7.7	126.1	-0.2
3	8.5	128.0	-0.6
4	10.1	133.3	-0.6
5	10.8	129.2	-0.4
6	11.8	129.7	-0.5
7	10.8	131.7	-0.5
8	10.0	131.0	-0.7
9	10.4	130.6	-1.2
10	13.4	134.8	-1.5
11	12.9	139.1	-1.8
12	12.3	131.2	-1.9
13	12.3	133.0	-1.9
14	13.7	130.3	-2.1
15	12.5	123.5	-2.0
16	12.5	130.8	-1.9
17	11.8	125.3	-1.7
18	10.1	122.3	-1.4
19	7.8	123.0	-0.6
20	6.7	124.5	0.2
21	5.4	109.7	1.4
22	6.1	114.0	1.0
23	5.6	106.7	1.3
24	5.4	100.9	1.5
1	6.1	99.2	1.8
2	6.8	106.1	2.4
3	6.1	104.7	1.9
4	6.9	112.2	1.4
5	8.9	118.7	0.1
6	7.7	117.9	-0.2
7	6.4	116.6	0.3
8	5.9	104.5	1.5
9	9.5	116.1	-0.1
10	12.3	122.2	-1.4
11	12.0	116.9	-1.7
12	12.6	121.9	-1.9
13	12.5	124.7	-2.0
14	13.0	128.6	-2.0
15	14.2	120.6	-2.0
16	12.7	121.5	-2.0

17	12.9	127.4	-1.7
18	10.5	136.5	-1.4
19	8.0	138.6	-0.8
20	5.7	127.4	0.1
21	4.9	120.6	1.1
22	4.4	107.2	1.2
23	2.3	214.7	0.6
24	2.8	289.8	-0.1
1	5.2	309.6	-0.8
2	3.3	43.6	-0.8
3	2.5	225.9	-1.0
4	2.2	155.5	-0.9
5	2.0	32.2	-1.0
6	1.1	159.8	-0.8
7	1.1	205.7	-0.9
8	1.0	260.0	-0.8
9	1.2	232.1	-0.9
10	1.6	269.9	-1.2
11	4.8	215.0	-1.7
12	4.7	264.8	-2.0
13	7.3	301.5	-2.1

STOP TIME      SEPT 26, 1992      HOUR 12 MINUTE 36

RELEASE NUMBER 92093

CONTAINMENT PURGE

STARTING TIME SEPT 30, 1992 HOUR 16 MINUTE 37

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
16	6.5	158.3	-1.8
17	6.9	154.9	-1.6
18	5.2	168.8	-1.2
19	2.8	158.7	0.6
20	1.1	111.7	4.7
21	2.5	101.5	6.2
22	1.8	324.0	5.7
23	1.7	101.3	6.7
24	2.3	211.9	2.4
1	1.8	46.7	1.7
2	1.9	88.4	2.3
3	2.5	108.7	3.8
4	3.3	107.6	3.6
5	2.9	204.8	3.8
6	3.6	105.0	3.4
7	3.9	93.7	3.2
8	3.0	56.8	2.3
9	2.3	118.6	0.5

STOP TIME OCT 1, 1992 HOUR 8 MINUTE 36

STARTING TIME OCT 1, 1992 HOUR 14 MINUTE 27

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	6.2	136.9	-1.9
15	6.4	162.8	-1.8
16	6.3	154.2	-1.9
17	6.2	151.0	-1.6
18	4.5	137.7	-1.2
19	2.1	142.1	1.3
20	1.3	213.7	4.7
21	1.9	55.4	4.9
22	1.9	110.9	5.4
23	1.9	45.0	4.4
24	2.2	155.8	6.4
1	2.3	54.6	3.2
2	2.7	59.5	2.2
3	1.6	245.4	2.9
4	1.6	114.7	3.7
5	2.6	99.6	5.8
6	1.9	95.0	5.2
7	1.3	135.9	4.5
8	1.9	78.4	3.6
9	1.3	77.1	1.2
10	2.1	41.7	-0.7



11	3.1	25.7	-1.5
12	4.4	53.5	-1.7
13	5.6	74.6	-1.9
14	5.9	90.0	-2.0
15	7.3	110.9	-1.9
16	7.7	105.8	-1.9
17	7.2	129.3	-1.6

STOP TIME    OCT    2, 1992    HOUR 16 MINUTE 45

RELEASE NUMBER 92094 CONTAINMENT PURGE  
 STARTING TIME OCT 3, 1992 HOUR 14 MINUTE 19

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	2.3	358.2	-1.7
15	2.5	99.7	-1.7
16	2.2	291.9	-1.7
17	2.6	92.6	-1.6
18	2.2	127.8	-1.3
19	0.1	207.8	2.2
20	0.1	198.7	5.1
21	0.8	291.8	6.7
22	0.5	308.3	7.4
23	0.9	280.3	6.4
24	1.3	238.0	4.7
1	1.1	255.3	4.9
2	1.6	254.5	5.3
3	1.8	241.1	4.6
4	1.0	227.5	4.0
5	1.2	202.4	3.4
6	1.3	192.2	3.0
7	1.1	194.1	2.8
8	1.2	196.3	2.8
9	1.4	158.6	1.9
10	1.4	105.8	-0.5
11	2.9	273.2	-1.6
12	3.4	116.1	-1.9
13	4.2	343.4	-1.9
14	4.3	320.3	-2.0
15	5.2	72.7	-1.9
16	4.9	67.6	-1.9
17	5.2	128.1	-1.5
18	2.9	68.9	-1.1
19	2.0	95.6	0.5
20	1.3	104.8	3.5
21	2.9	105.9	3.9
22	3.9	103.9	3.0
23	4.8	86.7	2.3
24	4.6	41.4	1.2
1	4.5	19.1	1.2
2	3.5	4.4	0.9
3	3.1	19.4	0.8
4	4.0	80.8	0.6
5	3.0	66.2	0.6
6	3.4	76.3	0.6
7	4.2	275.6	0.8
8	4.2	89.2	0.4
9	3.9	74.5	-0.3
10	5.6	85.2	-1.0
11	7.0	83.5	-1.4
12	7.1	87.0	-1.8
13	7.6	88.5	-2.0
14	7.0	117.9	-2.0

15	8.1	128.9	-2.1
16	8.0	131.3	-2.0

STOP TIME OCT 5, 1992 HOUR 15 MINUTE 46

RELEASE NUMBER 92095

CONTAINMENT PURGE

STARTING TIME OCT 8, 1992 HOUR 14 MINUTE 20

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	10.4	167.4	-1.1
15	10.5	126.6	-0.9
16	11.0	291.5	-0.9
17	8.7	291.7	-1.0
18	7.4	281.0	-1.0
19	7.0	286.0	-0.9
20	7.4	284.3	-0.9
21	5.9	277.4	-0.8
22	5.2	287.0	-0.9
23	5.6	277.2	-0.6
24	3.9	245.0	-0.7
1	3.4	289.1	-0.6
2	2.7	257.1	-0.7
3	4.3	229.1	-0.8
4	3.5	228.3	-0.8
5	3.2	84.7	-0.4
6	4.4	99.4	-0.4
7	5.7	213.7	-0.3
8	3.1	235.4	-0.1
9	3.3	229.5	-0.1
10	4.3	202.1	-1.1
11	5.4	204.0	-1.4
12	5.3	193.6	-1.5
13	5.0	182.9	-1.8
14	7.0	176.5	-1.8
15	5.9	174.3	-1.6
16	6.9	192.4	-1.6
17	3.2	240.9	1
18	1.3	191.2	3.3
19	1.3	187.4	1.8
20	1.2	157.5	1.8
21	1.3	0.0	1.9

STOP TIME: OCT 9, 1992 HOUR 20 MINUTE 38

OCT 9, 1992 HOUR 21 MINUTE 46

STARTING TIME

WS10  
MPH

WD10  
DEG

DT110  
DEG C

TIME  
HOUR

21	1.3	0.0	1.9
22	1.4	238.4	2.0
23	2.8	159.1	0.1
24	2.0	222.7	0.5
1	2.1	287.6	0.7
2	2.6	303.5	0.4
3	3.8	280.5	0.1
4	2.5	283.1	0.3
5	2.9	276.9	0.6
6	3.2	278.3	0.2
7	2.7	277.7	0.3
8	3.4	280.9	0.3
9	3.3	264.7	-0.4
10	4.3	267.6	-1.4
11	5.8	277.9	-1.8
12	8.8	290.3	-2.0
13	8.2	288.6	-2.1
14	9.6	287.6	-2.3
15	8.1	289.2	-2.3
16	8.5	282.6	-2.1
17	9.1	292.2	-1.7
18	7.1	286.5	-1.3
19	3.8	175.4	-0.4
20	1.5	212.5	2.0
21	1.9	170.5	1.8
22	1.5	206.8	3.1
23	1.7	270.8	2.9
24	1.9	305.7	4.2
1	2.0	312.8	3.9
2	2.3	26.3	3.4
3	1.4	135.5	4.1
4	1.7	163.9	4.9
5	1.9	324.8	4.3
6	2.2	232.7	4.1
7	3.1	22.3	2.8
8	2.4	314.8	1.2
9	2.9	42.6	0.2
10	2.3	71.7	-1.1
11	5.5	251.1	-1.4
12	10.7	171.5	-1.8
13	11.2	164.2	-1.9
14	10.3	144.2	-1.9
15	10.8	19.3	-2.0
16	11.1	26.3	-1.9
17	9.7	44.5	-1.5
18	7.6	49.3	-1.1
19	5.0	124.4	-0.1
20	5.0	137.1	1.4
21	7.4	154.5	1.8

22	11.8	186.3	2.2
23	14.4	195.1	2.1
24	9.4	221.1	1.8
1	3.6	268.9	1.2

STOP TIME OCT 12, 1992 HOUR 0 MINUTE 0

RELEASE NUMBER 92096      CONTAINMENT PURGE

STARTING TIME      OCT 14, 1992      HOUR 16 MINUTE 44

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
16	8.7	330.2	-1.6
17	7.9	339.7	-1.5
18	7.0	337.2	-1.2
19	4.2	334.3	-0.8
20	6.6	330.8	-1.1
21	4.8	324.8	-1.2
22	4.9	317.4	-1.2
23	4.1	322.1	-0.9
24	4.2	319.9	-1.1
1	5.8	312.4	-1.0
2	6.4	311.9	-1.3
3	5.3	314.0	-1.1
4	3.2	242.6	-0.7
5	3.6	132.3	-0.3
6	3.2	256.4	-0.1
7	3.4	273.7	0.1
8	3.1	265.6	0.8
9	4.7	284.4	-0.9

STOP TIME      OCT 15, 1992      HOUR 8 MINUTE 15

STARTING TIME      OCT 15, 1992      HOUR 10 MINUTE 43

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
10	4.3	304.0	-1.3
11	4.3	320.2	-1.8
12	4.1	310.5	-1.4
13	3.3	291.1	-1.5
14	3.4	294.1	-1.2
15	3.8	312.5	-1.3
16	4.1	320.1	-1.4
17	3.4	313.6	-1.3
18	5.1	301.3	-1.1
19	5.6	91.3	-1.0
20	6.1	213.4	-1.0
21	6.0	291.0	-1.0
22	6.6	289.7	-1.1
23	6.5	290.1	-0.9
24	6.2	292.8	-0.7
1	5.3	284.3	-0.8
2	6.6	284.0	-1.2
3	8.6	284.4	-1.0
4	7.2	281.1	-0.9
5	6.6	282.8	-1.0
6	7.3	287.5	-1.0

7	9	294.6	-1.0
8	7.8	171.8	-1.2
9	6.0	164.2	-1.4
10	6.1	294.0	-1.4
11	7.0	292.2	-1.7
12	5.5	304.3	-2.1
13	5.6	303.6	-2.1
14	5.5	311.1	-2.0
15	4.5	299.9	-1.7
16	2.2	330.6	-1.5
17	2.2	228.4	-1.4
18	2.2	209.7	-1.4
19	2.9	125.1	-0.2
20	2.0	118.4	1.8
21	3.3	89.7	2.3
22	3.3	29.9	2.5
23	3.8	49.1	1.7
24	2.5	166.7	1.7
1	1.7	167.3	2.8
2	1.7	131.3	3.6
3	5.1	152.0	3.3
4	6.2	156.7	3.1
5	6.0	149.1	3.1
6	0.0	145.2	3.2
7	4.0	100.0	3.0
8	4.5	104.3	3.3
9	5.5	104.8	3.3
10	7.8	94.4	1.3
11	7.8	4.2	-0.3
12	7.7	112.4	-1.6
13	7.7	161.5	-2.0
14	6.8	145.9	-1.8
15	5.8	143.5	-1.6
16	2.8	139.5	-1.5
17	2.0	340.0	-1.5
18	3.1	321.2	-1.3
19	4.8	321.3	-1.1
20	2.0	318.9	-1.0
21	2.6	283.9	-0.7
22	4.7	314.5	-1.0
23	5.0	303.0	-1.1
24	5.0	289.8	-0.9
1	2.9	122.3	-1.3
2	3.7	231.1	-0.9
3	2.7	276.7	-0.1
4	2.5	246.0	0.7
5	2.0	259.3	0.8
6	2.0	247.0	0.8
7	2.4	261.4	0.7
8	2.4	247.6	1.4
9	1.6	230.1	1.4
10	3.6	245.9	0.6
11	3.7	347.9	-0.8
12	4.8	267.7	-1.7
13	4.4	164.3	-1.8



14	3.4	38.7	-1.9
15	3.1	185.1	-1.7
16	4.5	13.0	-2.0
17	3.8	158.4	-1.5
18	4.2	123.7	-1.2
19	3.1	120.9	-0.1
20	1.1	124.8	2.0
21	3.1	97.0	2.8
22	3.7	85.7	2.1
23	4.4	80.7	1.6
24	4.4	72.2	1.5
1	5.0	82.4	0.6
2	5.3	91.8	-0.1
3	6.1	94.3	-0.5
4	5.9	95.5	-0.7
5	5.9	59.0	-0.7
6	6.4	0.6	-0.9

STOP TIME    OCT 19, 1992    HOUR 5 MINUTE 55

RELEASE NUMBER 92097 CONTAINMENT PURGE  
 STARTING TIME OCT 22, 1992 HOUR 12 MINUTE 41

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	15.0	161.3	-1.7
13	15.8	167.6	-1.8
14	15.3	169.4	-1.6
15	16.1	166.4	-1.6
16	15.9	159.2	-1.4
17	14.6	168.7	-1.3
18	10.8	166.4	-1.0
19	7.4	172.6	-0.6
20	6.9	163.3	-0.4
21	10.3	150.2	-0.4
22	13.5	138.2	-0.3
23	14.3	120.5	-0.4
24	12.9	102.2	-0.4
1	13.8	111.0	-0.2
2	14.3	110.9	-0.2
3	11.9	117.9	-0.1
4	10.5	124.0	-0.1
5	6.1	124.0	-0.1
6	3.2	153.7	0.3
7	2.4	162.4	0.5
8	1.5	196.0	1.2
9	1.8	148.6	0.1
10	3.6	201.7	-1.2
11	6.5	294.3	-1.7
12	7.2	308.8	-1.7
13	7.3	307.4	-1.8
14	6.5	313.6	-1.9
15	6.1	307.8	-1.8
16	5.3	310.8	-1.6
17	4.9	295.9	-1.6
18	3.8	303.0	-1.0
19	3.6	306.3	0.1
20	1.3	285.1	1.7
21	1.2	250.4	2.2
22	1.4	301.2	3.3
23	2.2	309.4	4.1
24	2.2	312.5	4.1
1	1.8	338.1	4.6
2	1.4	62.6	4.8
3	1.0	19.4	5.5
4	1.5	170.1	6.5
5	1.0	335.7	5.9
6	1.3	274.8	5.3
7	1.3	129.9	3.4
8	0.8	188.6	3.4
9	0.9	233.5	3.1
10	1.3	259.8	1.3
11	2.1	282.0	-1.2
12	2.6	313.8	-1.7

13	3.0	291.2	-1.7
14	2.6	281.0	-1.8
15	3.1	256.3	-1.6
16	2.8	225.1	-1.4
17	1.9	256.8	-1.4
18	1.2	177.7	-0.9
19	0.8	178.0	2.0
20	1.4	131.3	4.7
21	1.7	106.3	5.2
22	1.9	97.4	5.9
23	1.3	92.8	6.5
24	2.2	94.1	5.9
1	2.7	169.3	5.6
2	2.5	59.0	4.1

STOP TIME    OCT 25, 1992    HOUR 1 MINUTE 8

RELEASE NUMBER 92098

CONTAINMENT PURGE

STARTING TIME OCT 27, 1992 HOUR 14 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	10.3	169.9	-1.6
15	8.4	182.9	-1.5
16	7.4	165.6	-1.3
17	4.4	170.1	-1.1
18	1.9	168.2	1.8
19	1.2	161.3	3.6
20	1.8	271.4	3.1
21	2.7	262.3	0.9
22	1.6	269.4	0.5
23	1.9	279.9	0.2
24	1.6	251.5	0.5
1	3.2	268.3	0.6
2	5.2	289.3	-0.4
3	5.0	283.5	-0.4
4	3.4	279.6	0.5
5	2.4	280.5	1.5
6	3.9	292.7	1.2
7	2.6	283.9	1.4
8	2.5	279.8	0.2
9	5.1	290.1	-1.2
10	6.7	153.0	-1.4
11	5.9	113.0	-1.5
12	6.4	304.7	-1.6
13	6.3	303.7	-1.6
14	5.8	296.0	-1.5
15	5.5	287.3	-1.5
16	6.3	294.6	-1.4
17	5.0	297.7	-1.1
18	5.7	297.6	-1.1
19	2.6	281.6	-0.4
20	2.2	264.8	0.1
21	0.9	242.3	0.6
22	1.4	266.9	0.3
23	1.3	252.9	-0.1
24	1.7	248.4	-0.2
1	2.1	270.4	0.3
2	1.9	280.3	-0.1
3	1.7	318.5	-0.4
4	3.0	119.1	-0.6
5	2.9	241.7	-0.5
6	2.2	346.6	-0.6
7	3.0	6.3	-0.6
8	3.8	13.0	-1.1
9	4.1	354.8	-1.3

STOP TIME OCT 29, 1992 HOUR 8 MINUTE 10

STARTING TIME OCT 29, 1992 HOUR 9 MINUTE 46

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
9	4.1	354.8	-1.3
10	4.7	1.4	-1.4
11	5.6	29.5	-1.5
12	5.8	33.5	-1.5
13	6.9	16.5	-1.7
14	7.6	27.1	-1.9
15	6.9	36.1	-1.6
16	6.2	47.9	-1.5
17	5.8	43.3	-1.4
18	2.9	247.7	-0.3
19	1.7	209.2	1.1
20	1.8	253.6	0.9
21	2.1	27.3	0.4
22	2.3	24.2	0.4
23	1.5	22.0	0.5
24	1.5	349.4	-0.2
1	1.1	336.5	-0.4
2	1.7	335.2	-0.9
3	3.0	352.9	-0.8
4	2.3	2.4	-1.0
5	2.9	2.3	-1.1
6	4.4	41.7	-1.2
7	4.5	43.8	-1.2
8	5.0	274.7	-1.2
9	4.7	243.5	-1.3
10	5.6	57.3	-1.4
11	7.9	70.9	-1.4
12	8.3	69.8	-1.7
13	9.1	79.9	-1.7
14	8.0	72.8	-1.7
15	8.4	79.9	-1.5
16	9.0	98.4	-1.4
17	7.2	79.8	-1.2
18	7.1	81.2	-1.2
19	7.8	75.1	-1.2
20	8.9	76.5	-1.2
21	9.0	88.5	-1.1
22	6.6	105.5	-1.1
23	9.1	40.8	-1.1
24	4.3	0.0	-1.1
1	7.1	334.0	-1.1
2	8.6	92.8	-1.1
3	8.3	92.1	-1.2

STOP TIME OCT 31, 1992 HOUR 2 MINUTE 46

RELEASE NUMBER 92099

CONTAINMENT PURGE

STARTING TIME NOV 3, 1992 HOUR 14 MINUTE 12

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	4.8	114.8	-1.5
15	4.1	156.0	-1.3
16	4.6	260.3	-1.2
17	4.7	268.7	-1.2
18	4.1	266.3	-1.2
19	4.1	263.2	-0.9
20	4.8	273.0	-1.0
21	7.2	271.1	-1.2
22	6.2	278.1	-1.1
23	7.2	280.3	-1.0
24	6.8	274.6	-1.2
1	6.1	197.1	-1.1
2	6.7	139.9	-1.4
3	7.2	278.4	-0.9
4	9.0	279.7	-0.9
5	9.0	281.5	-1.2
6	12.2	282.7	-1.2
7	10.3	285.8	-0.9
8	10.8	276.0	-1.0
9	10.5	286.8	-1.4
10	10.6	290.6	-1.3
11	13.5	285.7	-1.5
12	11.0	104.0	-1.6
13	10.6	235.7	-1.5
14	10.2	286.0	-1.4
15	9.5	288.4	-1.4
16	7.9	288.8	-1.1
17	6.5	289.1	-1.3
18	6.7	286.5	-1.0
19	6.4	284.5	-1.2
20	6.2	289.0	-1.1
21	5.3	284.9	-1.1
22	5.7	232.7	-1.3
23	5.9	118.0	-1.1
24	7.0	289.4	-1.3
1	7.4	288.6	-1.2
2	6.6	289.2	-1.4
3	7.0	288.7	-1.2
4	6.2	291.8	-1.2
5	4.4	297.5	-1.3
6	5.0	280.3	-1.2
7	5.7	283.0	-1.3
8	4.7	272.2	-1.1
	6.0	76.3	-1.4
10	5.1	253.6	-1.4
11	5.5	273.6	-1.6
12	6.1	280.1	-1.6
13	6.6	300.4	-1.5
14	7.1	289.4	-1.5

15	6.4	268.8	-1.4
16	5.1	282.7	-1.4
17	5.6	290.3	-1.2
18	4.0	273.3	-1.2
19	4.4	136.6	-1.3
20	4.5	222.1	-1.5
21	4.0	278.1	-1.2
22	3.2	266.9	-1.3
23	3.3	271.6	-1.4
24	2.9	256.2	-1.4
1	3.2	257.5	-1.3
2	2.9	259.0	-1.3
3	2.7	246.4	-1.3
4	2.8	237.5	-1.3
5	3.6	133.7	-1.1
6	2.0	160.0	-1.2
7	3.4	292.0	-1.0
8	3.9	287.3	-1.3
9	2.7	326.5	-1.3
10	4.3	318.8	-1.4
11	4.2	12.8	-1.5
12	3.1	358.3	-1.5
13	2.6	265.4	-1.2
14	2.2	284.5	-1.3
15	2.3	224.5	-1.4
16	2.2	211.4	-1.3
17	1.8	301.1	-1.4
18	2.3	346.3	-1.2
19	2.6	12.6	-1.3
20	2.6	19.4	-1.3
21	2.6	5.3	-1.4
22	2.7	18.8	-1.4
23	3.2	46.8	-1.1
24	3.2	46.0	-1.1
1	3.0	43.4	-1.1
2	3.1	229.4	-1.5
3	2.1	61.3	-1.3
4	3.0	88.7	-1.2
5	3.6	89.2	-1.1
6	3.2	96.5	-1.3
7	4.1	80.1	-1.3
8	5.0	70.8	-1.2
9	6.2	86.9	-1.2
10	7.3	89.4	-1.2
11	7.7	257.2	-1.3
12	7.8	5.1	-1.4
13	8.6	127.8	-1.2
14	9.1	109.2	-1.4
15	8.8	95.8	-1.3
16	8.4	99.4	-1.2
17	9.1	94.5	-1.3
18	8.8	94.6	-1.2
19	7.0	102.2	-1.2
20	7.4	90.1	-1.1
21	8.1	104.7	-1.2



22	11.3	26.4	-1.3		
23	10.2	85.6	-1.0		
24	9.8	101.5	-1.2		
1	9.1	93.9	-1.1		
2	10.0	94.8	-1.2		
3	10.8	94.0	-1.1		
4	10.9	90.6	-1.4		
5	10.4	90.4	-1.0		
6	10.9	96.3	-1.3		
7	8.5	92.9	-1.2		
8	8.3	53.3	-1.2		
9	8.5	30.3	-1.2		
10	8.5	100.3	-1.2		
11	8.3	96.6	-1.4		
12	9.4	115.6	-1.3		
13	10.8	116.5	-1.4		
14	11.1	125.8	-1.4		
15	11.7	110.3	-1.3		
16	7.2	107.7	-1.1		
17	5.6	94.6	-0.5		
18	5.2	92.1	0.3		
19	4.3	88.6	0.3		
20	7.7	13.9	-0.7		
21	10.6	84.2	-0.9		
22	11.5	123.8	-1.1		
23	12.4	134.8	-1.2		
24	10.2	125.0	-1.0		
1	9.9	121.5	-1.1		
2	7.7	106.1	-0.6		
3	7.8	104.8	-0.3		

STOP TIME NOV 9, 1992 HOUR 2 MINUTE 12



RELEASE NUMBER 92100 CONTAINMENT PURGE

STARTING TIME NOV 12, 1992 HOUR 14 MINUTE 33

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
14	11.7	299.5	0.2
15	11.1	269.0	-0.3
16	10.8	289.6	-0.9
17	6.6	292.5	0.7
18	3.6	355.8	-0.4
19	2.0	273.7	1.3
20	3.0	235.1	0.5
21	4.8	223.7	1.1
22	6.6	284.2	1.0
23	7.8	284.7	0.3
24	9.0	300.0	0.1
1	12.6	305.8	0.8
2	12.0	302.4	0.4
3	11.4	299.5	0.2
4	10.8	303.4	-0.3
5	9.9	304.9	-0.4
6	8.4	299.2	-0.8
7	6.6	293.6	1.3
8	7.8	290.4	1.7
9	9.0	277.4	-0.1
10	10.2	277.2	-1.3
11	10.5	287.6	-1.3
12	10.5	294.5	-1.3
13	10.8	286.9	-1.3
STOP TIME NOV 13, 1992 HOUR 12 MINUTE 33			

STARTING TIME NOV 13, 1992 HOUR 13 MINUTE 51

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
13	10.8	286.9	-1.3
14	9.9	285.5	-0.3
15	9.3	285.6	-0.3
16	8.4	284.0	-0.1
17	6.0	307.7	-0.1
18	3.6	314.4	0.5
19	2.0	316.4	0.6
20	2.0	316.2	-0.1
21	2.0	305.4	0.1
22	2.0	213.7	-0.2
23	2.1	188.7	-0.5
24	2.1	181.3	0.1
1	2.9	1.4	0.7
2	2.8	64.4	0.5
3	3.4	103.7	-0.2

4	2.9	82.1	1.8
5	1.4	355.8	-0.7
6	1.1	330.8	-0.1
7	1.6	301.6	0.8
8	1.2	259.5	1.8
9	1.4	284.5	2.3
10	1.7	316.0	0.3
11	2.5	353.3	-0.1
12	2.7	292.6	-0.5
13	2.5	331.2	-0.8
14	2.7	260.6	0.5
15	2.4	236.2	-1.0
16	2.1	239.3	-0.5
17	1.5	194.5	0.6
18	1.4	158.9	0.7
19	0.9	266.7	1.5
20	0.8	312.5	0.6
21	3.0	154.6	-0.5
22	4.9	179.7	0.2
23	2.2	197.5	0.3
24	3.7	209.0	1.0
1	2.1	343.2	1.3
2	1.1	307.7	0.6
3	0.7	1.5	0.9
4	1.1	77.7	-0.6
5	0.4	294.1	-2.0
6	0.5	176.4	0.5
7	0.9	347.0	0.5
8	0.8	271.4	0.6
9	2.4	294.6	-0.5
10	4.0	65.2	-0.3
11	6.3	73.7	-0.1
12	7.0	70.7	-0.6
13	7.0	76.5	-0.7
14	7.0	51.3	0.5
15	6.5	64.4	-1.3
16	5.6	77.5	-0.6
17	3.7	90.6	-0.4
18	1.4	103.7	1.5
19	1.0	116.8	1.3
20	0.7	262.8	0.9
21	2.2	31.0	0.6
22	2.1	86.1	0.7
23	1.6	81.6	1.3

STOP TIME NOV 15, 1992 HOUR 22 MINUTE 41

RELEASE NUMBER 92101

CONTAINMENT PURGE

STARTING TIME NOV 19, 1992 HOUR 12 MINUTE 38

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	7.9	40.2	-0.5
13	9.1	49.3	-0.5
14	10.4	57.9	-0.5
15	11.5	66.2	-0.5
16	12.7	74.2	-0.5
17	4.0	304.7	-0.5
18	1.4	347.8	-0.9
19	1.7	339.7	-1.5
20	2.3	339.4	-1.4
21	1.7	324.4	-1.7
22	2.5	321.1	-1.2
23	3.6	328.0	-0.7
24	3.6	327.5	-0.5
1	4.4	324.1	-0.6
2	3.2	320.1	-2.0
3	3.5	323.6	-0.1
4	3.1	311.0	0.4
5	3.4	318.6	0.1
6	4.0	319.8	0.2
7	3.2	328.4	-1.1
8	2.6	319.7	-1.3
9	3.4	328.1	-0.7
10	3.4	333.8	-1.1
11	5.0	336.2	-0.5
12	6.2	333.7	-1.3
13	5.8	332.2	-0.3
14	4.8	333.9	-1.6
15	5.6	334.8	-1.5
16	5.4	340.7	-0.6
17	5.8	338.3	-0.4
18	5.8	336.3	-0.5
19	6.4	338.5	-0.6
20	6.1	336.0	-0.8
21	6.8	331.3	-0.8
22	6.4	335.8	-0.9
23	6.2	338.9	-0.3
24	6.2	331.7	-1.3
1	7.1	333.8	-0.2
2	6.8	346.9	-0.6
3	7.6	340.5	-0.5
4	5.5	336.3	-0.7
5	5.9	338.8	-1.1
6	5.1	340.9	-0.2
7	4.1	340.6	-0.5
8	5.0	335.0	-1.2
9	6.3	335.2	-0.4
10	6.6	342.3	-0.6
11	5.0	350.4	-0.3
12	6.1	347.1	-0.3

13	5.1	349.5	-0.1
14	5.4	344.9	-0.9
15	4.4	348.0	-0.7
16	4.3	351.8	-0.6
17	3.6	342.8	-0.7
18	3.0	343.9	-0.6
19	1.8	348.1	-0.8
20	1.7	353.6	-0.2
21	1.5	352.6	-0.6
22	2.0	17.5	-0.4
23	1.0	3.5	-0.3
24	1.6	353.1	-0.5
1	1.9	14.5	-0.2
2	1.6	1.1	-1.0
3	3.3	1.1	-0.2
4	2.8	37.4	-0.2
5	3.6	29.4	-1.0
6	5.1	14.8	-0.7
7	4.9	26.0	-0.9
8	4.4	33.1	-0.6
9	4.8	28.0	-0.5
10	4.2	8.9	-0.1
11	4.0	17.6	-0.3
12	4.4	15.7	-0.2
13	4.6	7.0	-0.9
14	4.3	3.8	-0.8
15	3.8	5.0	-0.1
16	3.3	8.6	-0.7
17	3.2	3.4	-0.6
18	2.6	9.2	0.1
19	3.4	7.9	0.2
20	2.6	18.9	0.9
21	2.1	41.2	-0.4
22	2.3	44.8	0.2
23	3.1	111.2	0.3
24	2.1	131.3	0.5
1	3.0	163.1	0.9
2	3.3	143.5	-0.3

STOP TIME NOV 23, 1992 HOUR 1 MINUTE 5

	STARTING TIME		NOV 23, 1992	HOUR 2 MINUTE 31
TIME	WS10	WD10	DT110	
HOUR	MPH	DEG	DEG C	
2	3.3	143.5	-0.3	
3	1.9	140.3	0.2	
4	1.4	206.1	0.2	
5	1.6	146.7	-0.2	
6	1.8	333.2	-0.5	
7	1.5	157.8	0.4	
8	2.7	187.1	-0.9	
	STOP TIME		NOV 23, 1992	HOUR 7 MINUTE 34

RELEASE NUMBER 92102 CONTAINMENT PURGE

STARTING TIME NOV 25, 1992 HOUR 17 MINUTE 5

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
17	9.1	324.0	-0.4
18	8.8	325.7	-1.3
19	8.5	329.4	-0.4
20	7.3	332.0	-0.3
21	7.6	323.7	0.8
22	7.5	321.8	-0.1
23	7.7	316.7	0.6
24	8.0	320.0	0.9
1	9.3	320.2	-0.2
2	8.4	322.9	-0.2
3	8.0	321.8	-0.7
4	6.1	323.8	-1.2
5	7.0	320.7	1.1
6	7.0	319.3	-0.8
7	6.6	316.1	0.1
8	6.2	320.0	-0.4
9	2.9	308.1	0.8
10	4.3	314.7	0.4
11	6.0	322.5	-0.5
12	5.8	314.8	-1.9
13	5.8	309.2	-1.3
14	4.0	306.0	-1.0
15	4.6	306.7	-0.6
16	4.6	280.4	-0.1
17	5.8	244.0	-0.9

STOP TIME NOV 26, 1992 HOUR 16 MINUTE 16

STARTING TIME NOV 26, 1992 HOUR 18 MINUTE 20

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
18	6.3	292.6	0.7
19	6.2	299.1	1.0
20	6.2	289.0	1.3
21	5.8	294.0	0.7
22	6.0	292.5	2.1
23	5.8	290.7	1.4
24	6.0	300.0	2.0
1	1.5	294.7	1.5
2	1.7	297.2	2.8

STOP TIME NOV 27, 1992 HOUR 1 MINUTE 3

RELEASE NUMBER 92102      CONTAINMENT PURGE

STARTING TIME      NOV 27,1992      HOUR 2 MINUTE 3

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
2	1.7	297.2	2.8
3	1.9	289.7	1.7
4	2.0	291.1	0.7

STOP TIME      NOV 27,1992      HOUR 3 MINUTE 40

STARTING TIME      NOV 27,1992      HOUR 4 MINUTE 38

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
4	2.0	291.1	0.7
5	2.1	295.1	0.1
6	1.7	283.9	0.1
7	1.2	283.2	0.8
8	0.8	292.5	0.6
9	1.6	291.3	-0.6
10	3.4	307.1	-0.9
11	4.0	316.3	-1.3
12	3.3	305.5	-0.3

STOP TIME      NOV 27,1992      HOUR 11 MINUTE 10

# RELEASE NUMBER 92102 CONTAINMENT PURGE

STARTING TIME NOV 27, 1992 HOUR 12 MINUTE 1

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	3.3	305.5	-0.3
13	3.4	315.7	-0.9
14	3.1	327.2	-1.0

STOP TIME NOV 27, 1992 HOUR 13 MINUTE 7

STARTING TIME NOV 27, 1992 HOUR 13 MINUTE 36

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
13	3.4	315.7	-0.9
14	3.1	327.2	-1.0
15	1.7	309.0	-1.3
16	0.6	375.0	-0.8
17	0.7	265.8	0.3
18	0.6	213.4	-0.5
19	0.6	140.0	0.6
20	0.4	209.2	0.9
21	0.5	58.2	1.4
22	0.5	48.6	2.1
23	0.1	8.4	1.1
24	0.3	303.8	1.7
1	2.3	208.7	1.5
2	1.6	22.9	3.8
3	0.5	227.8	1.6
4	0.5	114.9	3.0
5	0.3	116.0	3.1
6	0.6	134.1	1.4
7	0.3	117.4	2.1
8	0.4	225.1	2.3
9	1.0	141.5	2.5
10	1.9	110.0	-0.6
11	2.5	127.4	0.4
12	5.2	171.4	-0.3
13	6.7	189.7	-0.6
14	6.6	178.9	-1.7
15	7.5	179.2	-0.5
16	6.4	168.0	-1.0
17	4.6	152.7	-1.1
18	3.5	150.3	0.2
19	4.5	107.5	0.2
20	3.4	139.9	0.5
21	4.9	166.6	0.6
22	4.1	130.5	0.4
23	6.9	163.9	-1.4
24	11.4	188.2	0.5



1	13.0	194.3	0.4
2	3.1	195.9	-0.3
3	4.2	210.7	0.5
4	2.8	242.1	1.6
5	1.8	264.3	-0.2
6	2.5	291.1	0.1
7	1.1	285.5	1.6
8	1.0	274.1	0.6
9	0.9	276.2	-0.7
10	0.7	322.4	-0.8
11	2.0	301.5	-0.9
12	3.1	296.1	-1.0
13	3.6	288.0	-1.3
14	3.4	278.0	-0.6
15	5.3	301.6	-0.7
16	4.5	300.8	-1.0
17	5.7	304.9	-1.1
18	5.7	299.5	-0.3
19	3.8	278.9	-0.6
20	3.6	265.7	0.3
21	3.3	267.4	1.9
22	3.9	269.6	0.5
23	4.1	269.7	0.4
24	3.8	270.6	0.9
1	3.9	262.9	0.2
2	5.2	255.9	0.4
3	3.9	264.1	1.3
4	3.3	268.3	-0.3
5	3.8	263.3	1.6
6	3.4	266.7	1.4
7	3.1	265.1	-0.2

STOP TIME NOV 30, 1992 HOUR 6 MINUTE 12

RELEASE NUMBER 92103      CONTAINMENT PURGE

STARTING TIME      DEC   3, 1992      HOUR 19 MINUTE 58

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
19	6.4	314.2	-1.9
20	8.7	322.6	-1.6
21	9.2	328.0	-1.6
22	7.6	326.9	-1.5
23	7.6	332.4	-1.5
24	8.2	331.3	-1.4
1	8.1	332.5	-1.4
2	10.7	321.5	-1.6
3	9.3	314.8	-1.7
4	8.2	313.8	-1.5
5	5.5	316.3	-1.3
6	4.6	320.2	-1.3
7	3.2	295.9	-1.1
8	3.2	291.7	-0.8
9	5.3	295.4	-1.5
10	7.9	310.1	-1.8
11	8.8	307.7	-2.0
12	10.1	308.4	-2.1
13	10.9	312.8	-2.1
14	11.6	307.6	-2.0
15	11.5	307.6	-1.9
16	11.4	307.6	-1.9

STOP TIME      DEC   4, 1992      HOUR 15 MINUTE 16

STARTING TIME      DEC   4, 1992      HOUR 16 MINUTE 23

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
16	11.4	307.6	-1.9
17	8.4	311.4	-1.4
18	7.6	318.4	-1.1
19	7.1	302.5	-0.3
20	6.4	284.9	0.3
21	6.0	279.8	0.9
22	6.9	291.7	0.4
23	6.7	308.2	-0.6
24	6.4	308.2	-0.5
1	0.8	284.6	-0.5
2	1.1	284.2	-1.4
3	0.6	283.6	-0.6
4	0.6	280.9	1.7
5	0.8	259.0	0.3
6	1.2	184.9	-0.1
7	3.6	234.0	-1.4
8	1.6	266.9	-0.1

9	1.8	142.6	1.4
10	3.1	159.0	0.1
11	5.7	187.7	-0.5
12	5.7	178.8	-1.1
13	9.3	188.8	-1.0
14	8.3	185.0	-1.7
15	8.1	181.5	-1.1
16	7.2	163.7	-0.9
17	7.0	158.8	-1.3
18	5.8	135.3	-0.5
19	6.9	138.5	0.1
20	7.6	146.1	0.2
21	7.2	148.1	0.5
22	8.0	163.3	-1.3
23	6.2	149.1	-0.4

STOP TIME DEC 5, 1992 HOUR 22 MINUTE 34

RELEASE NUMBER 92103

CONTAINMENT PURGE

STARTING TIME DEC 5, 1992 HOUR 22 MINUTE 51

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
22	8.0	163.3	-1.3
23	6.2	149.1	-0.4
24	6.2	136.1	-0.5
1	5.3	126.8	-1.4
2	5.6	130.4	-1.4
3	7.0	138.6	-1.4
4	8.7	142.0	-1.5
5	7.9	143.0	-1.5
6	7.2	143.8	-1.5
7	7.2	146.0	-1.5
8	7.5	143.3	-1.5
9	8.1	148.9	-1.6
10	8.0	157.6	-1.6
11	8.0	163.7	-1.6
12	7.9	182.5	-1.7
13	6.9	198.3	-1.6
14	5.3	222.7	-1.7
15	3.1	246.9	-1.6
16	1.3	265.0	-1.3
17	1.5	285.1	-1.0
18	3.0	311.7	-1.4
19	2.1	301.6	-1.2
20	0.6	301.8	-1.1
21	0.7	253.3	-0.8
22	1.0	269.9	0.2
23	1.0	308.3	1.6
24	0.5	229.6	2.8
1	0.3	296.8	3.1
2	0.5	291.8	3.5
3	0.2	41.4	3.6
4	0.4	131.7	3.0
5	0.3	296.1	1.6

STOP TIME DEC 7, 1992 HOUR 4 MINUTE 15

RELEASE NUMBER 92104

CONTAINMENT PURGE

STARTING TIME DEC 10, 1992 HOUR 12 MINUTE 47

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
12	11.7	308.6	-1.2
13	10.5	305.5	-2.4
14	9.7	305.4	-1.1
15	9.5	301.9	-1.2
16	7.5	307.4	-1.2
17	5.2	292.6	0.4

STOP TIME DEC 10, 1992 HOUR 16 MINUTE 15

RELEASE NUMBER 92105

CONTAINMENT PURGE

STARTING TIME DEC 10, 1992 HOUR 22 MINUTE 11

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
22	2.0	295.0	1.3
23	1.7	303.5	2.1
24	1.3	308.6	2.5
1	0.5	292.2	3.9
2	1.0	157.4	4.0
3	0.4	157.6	3.8
4	0.6	114.7	4.0
5	2.3	100.3	4.6
6	1.3	197.3	3.6
7	3.4	118.2	3.0
8	6.5	97.1	2.5
9	6.7	92.5	2.5
10	9.2	111.5	0.4
11	11.1	131.1	-1.3
12	11.9	112.9	-1.3
13	13.3	117.1	-1.4
14	16.0	118.4	-1.5
15	15.3	118.0	-1.4
16	13.8	118.8	-1.3
17	10.7	121.5	-0.8
18	10.8	128.5	-0.5
19	9.8	127.3	-0.4
20	11.5	134.8	-0.7
21	8.0	120.8	0.1
22	7.1	123.2	0.4
23	8.6	109.8	0.9
24	8.5	106.7	1.6
1	8.0	106.5	0.5
2	7.2	116.6	0.6
3	7.3	117.8	0.7
4	7.9	116.2	0.6
5	8.5	112.2	0.3
6	7.7	112.3	0.7
7	7.2	112.5	0.2
8	7.0	114.7	-0.3
9	6.5	113.7	-0.5
10	7.5	112.0	-1.1
11	10.4	115.6	-1.4
12	11.4	111.1	-1.5
13	11.4	107.7	-1.5
14	12.7	109.4	-1.6
15	14.0	111.9	-1.5
16	12.0	105.5	-1.2
17	9.6	107.4	-0.8
18	7.2	113.4	-1.0
19	9.3	103.0	-1.2
20	11.1	114.4	-0.9
21	13.7	115.1	-1.0
22	13.3	110.8	-1.2

23	13.3	110.2	-1.4
24	12.8	114.7	-1.3
1	11.3	117.1	-1.1
2	11.2	118.3	-1.2
3	8.2	114.2	-1.0
4	7.3	105.1	-1.4
5	8.2	95.6	-1.4
6	12.0	117.2	-1.4
7	10.4	113.2	-1.5
8	11.1	103.2	-1.5
9	7.7	101.9	-1.5
10	5.4	89.7	-1.5
11	6.4	91.1	-1.5
12	5.0	86.4	-1.5
13	3.3	90.7	-1.5
14	3.3	79.5	-1.5
15	1.4	173.0	-1.4
16	1.6	90.2	-1.6
17	3.8	109.1	-1.4
18	1.4	202.0	-1.1
19	1.2	220.3	-1.3
20	1.1	352.7	-1.2
21	1.8	322.5	-1.1
22	3.4	302.6	-1.5
23	5.6	308.4	-1.6
24	5.6	310.6	-1.6
1	5.4	308.3	-1.5
2	5.1	315.9	-1.5
3	5.1	318.7	-1.5
4	4.8	314.6	-1.6
5	5.1	312.8	-1.7
6	5.7	320.4	-1.7
7	6.0	324.0	-1.6

STOP TIME DEC 14, 1992 HOUR 6 MINUTE 38

RELEASE NUMBER 92106

CONTAINMENT PURGE

STARTING TIME DEC 17, 1992 HOUR 16 MINUTE 32

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
16	6.9	165.0	-0.4
17	6.7	144.1	-0.9
18	6.8	149.4	-1.4
19	8.2	149.2	0.5
20	9.6	142.0	0.6
21	10.0	148.2	-0.5
22	7.5	149.2	-0.7
23	8.5	159.7	0.2
24	9.2	161.0	0.8
1	9.0	158.4	-1.5
2	8.2	141.7	-1.5
3	7.3	123.6	-1.5
4	9.0	119.0	-1.5
5	10.9	122.8	-1.6
6	11.2	124.9	-1.7
7	14.1	125.2	-1.8
8	13.6	124.1	-1.7
9	13.2	122.2	-1.7
10	12.3	135.5	-1.6
11	10.0	125.7	-1.6
12	9.2	128.1	-1.7
13	9.2	132.3	-1.6
14	8.2	139.9	-1.6
15	8.5	157.6	-1.6
16	7.3	161.3	-1.6
17	4.1	181.6	-1.5
18	2.4	205.4	-1.5
19	1.9	287.9	-1.5
20	1.4	279.4	-1.2
21	1.6	279.3	-1.2
22	2.6	282.1	-1.1
23	3.5	283.1	-1.1
24	6.6	309.1	-1.4
1	7.0	309.2	-1.7
2	8.1	317.7	-1.5
3	5.4	302.6	-1.5
4	4.1	297.8	-1.4
5	4.3	297.9	-1.3
6	5.0	303.7	-1.3
7	7.8	319.3	-1.5
8	7.5	322.2	-1.8
9	5.5	326.7	-1.8
10	4.5	330.3	-1.8
11	5.3	306.5	-1.9
12	6.2	308.8	-2.0
13	5.4	301.4	-2.1
14	5.3	299.2	-1.9
15	4.8	300.9	-1.9
16	3.8	296.3	-1.9



17	3.0	296.7	-1.8
18	1.8	297.1	-1.2
19	1.4	286.6	-1.0
20	0.8	262.5	-0.3
21	0.6	265.8	0.3
22	1.4	238.5	0.8
23	1.2	32.3	0.9
24	1.3	308.8	0.7
1	2.5	236.7	-0.2
2	2.1	254.1	-0.5
3	2.3	233.1	0.3
4	2.7	241.5	1.8
5	2.7	150.6	0.9
6	3.2	124.8	0.2
7	2.0	182.4	-0.4
8	3.2	111.0	-0.2
9	4.4	136.5	-0.5
10	6.0	152.6	-1.4
11	12.6	188.5	-1.6
12	15.2	196.3	-1.7
13	13.5	195.6	-1.7
14	12.7	188.9	-1.7
15	13.5	181.1	-1.7
16	14.1	171.7	-1.6
17	10.9	164.7	-1.4
18	9.5	159.2	-1.3
19	10.6	164.2	-1.1
20	13.8	174.0	-1.0
21	15.4	167.5	-1.2
22	14.2	164.5	-1.2
23	13.6	164.5	-1.1
24	15.0	164.6	-1.1
1	14.4	169.1	-1.2
2	17.3	169.7	-1.1
3	16.5	170.1	-1.2
4	14.5	171.8	-1.3
5	11.3	170.0	-1.2
6	12.2	193.3	-1.1

STOP TIME DEC 21, 1992 HOUR 5 MINUTE 30

RELEASE NUMBER 92107

CONTAINMENT PURGE

STARTING TIME DEC 23, 1992 HOUR 20 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
20	4.9	307.4	-1.5
21	3.6	300.2	-1.4
22	1.7	288.4	-1.2
23	0.9	235.1	-1.0
24	2.6	204.4	-0.8
1	2.1	178.9	0.4
2	5.3	168.0	4.7

STOP TIME DEC 24, 1992 HOUR 1 MINUTE 17

STARTING TIME DEC 24, 1992 HOUR 6 MINUTE 40

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
6	8.2	159.0	2.9
7	10.0	147.4	-0.1
8	10.4	149.2	0.9
9	14.6	158.1	-0.9
10	18.7	167.7	-0.7
11	21.0	167.0	-1.7
12	20.7	173.4	-1.5
13	23.3	173.7	-1.0
14	25.2	183.2	-0.3
15	22.6	177.0	-0.7
16	19.6	174.9	-1.7
17	18.3	173.7	-1.0
18	16.4	173.9	-0.5
19	11.9	168.4	0.2
20	13.7	173.7	0.7
21	15.3	192.3	-1.4
22	18.0	199.1	-1.1
23	10.3	223.0	-0.8
24	5.0	263.4	-0.2
1	7.3	280.9	-0.8
2	11.4	308.5	-1.1
3	13.7	322.6	-1.4
4	14.8	313.8	-1.5
5	10.6	312.9	-1.5
6	8.1	303.2	-1.3
7	9.6	312.4	-1.3
8	6.6	301.6	-1.2
9	6.7	293.6	-1.3
10	10.2	310.9	-1.9
11	10.1	308.2	-2.1
12	9.5	300.0	-2.2
13	8.2	294.9	-2.3

14	8.0	295.2	-2.1
15	6.7	289.2	-2.1
16	5.3	293.4	-1.9
17	2.6	300.8	-1.5
18	1.8	256.2	-1.0
19	0.8	293.8	-0.7
20	1.2	185.4	0.2
21	1.8	142.3	1.3
22	3.0	125.0	1.7
23	3.2	115.1	2.4
24	2.7	106.9	2.9
1	3.8	106.3	2.6
2	7.4	104.5	2.2
3	5.7	119.5	1.1
4	10.2	163.5	-0.3
5	4.8	58.4	-1.1
6	3.9	27.6	-1.0
7	4.3	113.0	-1.2
8	6.4	100.4	-1.1
9	5.8	110.2	-1.1
10	11.7	155.1	-1.4
11	15.4	165.5	-1.6
12	16.2	162.2	-1.8
13	15.1	158.9	-1.8
14	16.0	151.1	-1.7
15	18.2	168.5	-1.6
16	20.2	169.7	-1.4
17	19.1	169.2	-1.2
18	20.4	170.4	-1.0
19	21.6	174.8	-1.0
20	14.9	172.8	-1.1
21	14.0	173.3	-1.0
22	15.0	173.9	-1.0
23	15.1	180.2	-1.1
24	13.5	178.9	-1.3
1	10.9	171.6	-1.1
2	8.5	158.4	-1.0
3	7.4	149.7	-0.6
4	10.1	161.6	-0.3
5	11.4	166.9	-0.2
6	10.2	163.7	-0.6
7	13.0	171.9	-0.5
8	10.4	173.1	0.1
9	8.6	159.5	-0.6
10	8.1	155.0	-1.6
11	9.8	188.4	-1.8
12	8.0	185.8	-1.9
13	9.0	181.7	-1.9
14	9.6	171.8	-1.8
15	8.3	174.1	-1.7
16	6.6	160.8	-1.6
17	1.9	138.5	-1.3
18	2.1	96.2	0.5
19	2.8	95.5	1.0
20	3.4	119.3	1.8

21	3.6	242.3	0.5
22	2.8	142.2	-0.7
23	3.3	192.7	-0.1
24	3.0	181.4	-0.1
1	1.9	155.7	1.2
2	2.0	142.2	1.9
3	1.4	196.5	2.5
4	1.5	298.3	1.8
5	3.2	329.4	-0.9
6	4.7	308.9	-1.3

STOP TIME    DEC 28, 1992    HOUR 5 MINUTE 10

RELEASE NUMBER 92108

CONTAINMENT PURGE

STARTING TIME DEC 31, 1992 HOUR 16 MINUTE 25

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
16	5.4	314.0	-2.0
17	4.8	315.6	-1.9
18	4.2	324.6	-1.5
19	3.6	319.0	-1.3
20	3.9	312.0	-1.4
21	3.9	305.0	-1.0
22	4.2	294.6	-1.3
23	4.2	312.1	-1.3
24	4.2	315.7	-1.4

STOP TIME DEC 31, 1992 HOUR 23 MINUTE 49

RELEASE NUMBER 92009

DECAY TANK PURGE

STARTING TIME AUG 10, 1992 HOUR 18 MINUTE 30

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
18	5.9	330.7	-1.2
19	5.2	324.9	-1.0
20	4.2	328.8	-0.6
21	3.4	322.2	-0.5
22	2.8	297.8	-0.2
23	2.8	287.9	0.5
24	2.3	266.0	2.1
1	1.2	240.8	2.1
2	1.5	240.8	1.2
3	1.3	243.4	1.2

STOP TIME AUG 11, 1992 HOUR 2 MINUTE 40

RELEASE NUMBER 92010

DECAY TANK PURGE

STARTING TIME AUG 27, 1992 HOUR 6 MINUTE 0

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
6	0.9	252.3	-0.3
7	0.9	266.6	-0.2
8	1.2	234.5	-0.7
9	3.2	282.3	-1.3
10	4.0	288.8	-1.6
11	4.5	295.6	-1.7
12	4.2	312.7	-1.8
13	3.9	325.9	-1.9
14	4.2	323.1	-2.0

STOP TIME AUG 27, 1992 HOUR 13 MINUTE 32

RELEASE NUMBER 92011

DECAY TANK PURGE

STARTING TIME OCT 22, 1992 HOUR 1 MINUTE 15

TIME HOUR	WS10 MPH	WD10 DEG	DT110 DEG C
1	6.9	151.0	-0.4
2	7.5	150.6	-0.4
3	8.6	156.6	-0.4
4	9.7	155.5	-0.3
5	9.4	151.2	-0.5
6	9.5	150.9	-0.5
7	10.1	155.2	-0.4

STOP TIME OCT 22, 1992 HOUR 6 MINUTE 50



RELEASE NUMBER 92012		DECAY TANK PURGE	
TIME	STARTING TIME	NOV 11, 1992	HOUR 10 MINUTE 9
10	WS10	WD10	DT110
11	MPH	DEG	DEG C
12	1.1	298.6	-0.5
13	1.6	347.6	-0.8
14	2.4	232.1	-0.6
15	2.6	213.7	-1.1
16	1.9	160.5	-0.8
17	1.7	330.4	-0.1
18	1.7	6.4	-0.3
19	1.1	352.1	-0.2
20	1.3	351.6	-0.3
	0.5	351.2	0.1
	2.0	351.7	-0.2
	STOP TIME	NOV 11, 1992	HOUR 19 MINUTE 56

SECTION VII  
POTENTIAL DOSES TO INDIVIDUALS AND POPULATIONS

(Regulatory Guide 1.21)

July 1, 1992 - December 31, 1992

## 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 the GASPAR program. Results to each receptor are shown in Tables VII-A-1 through VII-A-33. Also, the doses to the same groups, Table VII-B-1, 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 July 1, 1992 through December 31, 1992 were as follows:

- (1) All gaseous effluents were as described in Section III.
- (2) Entrained gases (Xe-131M, Xe-133M, Xe-133, and Xe-135) from Liquid effluents were described in Section IV.
- (3) Semi-Annual "X/Qs" at the actual receptor locations, which are corrected for open terrain and plume depletion are calculated according to Regulatory Guide 1.111. Also included are semiannual deposition rates corrected for the open terrain factor.
- (4) The production, intake and grazing fractions were as follows: 1.0 for leafy vegetables grown in garden of interest, 0.76 for produce grown in garden of interest, 0.5 for the pasture grazing season of the milk animal, 1.0 for pasture grazing season of the meat animal, and  $8 \text{ g/m}^3$  for the air water (humidity) concentrations.

## Potential Semiannual Doses to Individuals from Gaseous Releases (Con't)

- (5) All dose factors, transport times from receptor to individual, and usage factors are defined by Regulatory Guide 1.109 and NUREG-0172.
- (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/Qs" 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 the environment in an extremely conservative manner.

## 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. Results are shown in Table VII-C-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 760,413, based on the 1990 census, was used to define the sector segments within a 50 mile radius of the plant.

## Potential Semiannual Doses to Population from Gaseous Releases (Con't)

- (2) 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

The body, skin and organ mrem for liquid releases were calculated for all significant liquid pathways using the annual configuration of the LADTAP program. Dose conversion factors used by LADTAP for ingestion and shore-line deposition are shown in Table VII-D-1. Results are shown in Tables VII-D-2 through VII-D-9.

The inputs to LADTAP for the semiannual period from July 1, 1992 thru December 31, 1992 were as follows:

- (1) All liquid effluents were as described in Section IV, except for the entrained gases (Xe-131M, Xe-133M, Xe-133, and Xe-135).
- (2) A plant discharge rate of 802 cubic feet per second (CFS) was utilized.
- (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 Table VII-D-2 through VII-D-5 was used. For Tables VII-D-6 through VII-D-9, a transport time of 0.0 was used from the plant to the discharge site.
- (5) A shorewidth factor of 0.2 was used.

## Potential Semiannual Doses to Individuals from Liquid Releases (Con't)

- (6) All dose factors, transport times from receptor to individual, and usage factors are defined by Regulatory Guide 1.109 and NUREG-0172.

The discharge site in Tables VII-D-6 through VII-D-9 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 760,413 within a 50 mile radius of the plant. Results are shown in Tables VII-E-1 through VII-E-6. The same input was 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 Bend 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, attributed to the gamma radiation emitted from the containment structure, were not observed above local background at any TLD sample locations for this semiannual period.

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 1 RES. VEG  
 AT 4.58 MILES N

BETA AIR DOSE = 9.42E-05 MILLRADS  
 GAMMA AIR DOSE = 4.18E-05 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.55E-05	2.55E-05	2.55E-05	2.55E-05	2.55E-05	2.55E-05	2.64E-05	6.52E-05
GROUND	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07	1.56E-07
VEGET								
ADULT	3.25E-05	3.24E-05	2.38E-07	3.26E-05	3.25E-05	3.38E-05	3.24E-05	3.24E-05
TEEN	3.72E-05	3.71E-05	3.25E-07	3.73E-05	3.72E-05	3.83E-05	3.72E-05	3.71E-05
CHILD	5.76E-05	5.75E-05	6.35E-07	5.78E-05	5.76E-05	5.93E-05	5.76E-05	5.75E-05
INHAL								
ADULT	1.80E-05	1.80E-05	1.62E-08	1.80E-05	1.80E-05	1.85E-05	1.80E-05	1.80E-05
TEEN	1.81E-05	1.81E-05	1.91E-08	1.81E-05	1.81E-05	1.88E-05	1.81E-05	1.81E-05
CHILD	1.60E-05	1.60E-05	2.05E-08	1.60E-05	1.60E-05	1.67E-05	1.60E-05	1.60E-05
INFANT	9.20E-06	9.19E-06	1.04E-08	9.20E-06	9.20E-06	9.88E-06	9.20E-06	9.19E-06



FORT CALHOUN : RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 2 RES, VEG  
 AT 1.86 MILES NNE

BETA AIR DOSE = 6.67E-04 MILLRADS  
 GAMMA AIR DOSE = 3.63E-04 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.25E-04	2.25E-04	2.25E-04	2.25E-04	2.25E-04	2.25E-04	2.32E-04	5.29E-04
GROUND	7.00E-07	7.00E-07	7.00E-07	7.00E-07	7.00E-07	7.00E-07	7.00E-07	8.17E-07
VEGET								
ADULT	2.16E-04	2.15E-04	1.24E-06	2.16E-04	2.15E-04	2.23E-04	2.15E-04	2.15E-04
TEEN	2.47E-04	2.46E-04	1.70E-06	2.47E-04	2.47E-04	2.52E-04	2.46E-04	2.46E-04
CHILD	3.82E-04	3.82E-04	3.32E-06	3.83E-04	3.82E-04	3.91E-04	3.82E-04	3.81E-04
INHAL								
ADULT	1.19E-04	1.19E-04	1.18E-07	1.19E-04	1.19E-04	1.23E-04	1.19E-04	1.19E-04
TEEN	1.20E-04	1.20E-04	1.39E-07	1.20E-04	1.20E-04	1.25E-04	1.20E-04	1.20E-04
CHILD	1.06E-04	1.06E-04	1.49E-07	1.06E-04	1.06E-04	1.11E-04	1.06E-04	1.06E-04
INFANT	6.10E-05	6.10E-05	7.52E-08	6.10E-05	6.10E-05	6.58E-05	6.10E-05	6.10E-05



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 3 RES  
 AT 1.47 MILES NE

BETA AIR DOSE = 1.12E-03 MILLRADS  
 GAMMA AIR DOSE = 6.59E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.79E-04	3.79E-04	3.79E-04	3.79E-04	3.79E-04	3.79E-04	3.89E-04	8.88E-04
GROUND	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.21E-06
INHAL								
ADULT	2.00E-04	2.00E-04	2.02E-07	2.00E-04	2.00E-04	2.06E-04	2.00E-04	2.00E-04
TEEN	2.01E-04	2.01E-04	2.37E-07	2.01E-04	2.01E-04	2.09E-04	2.01E-04	2.01E-04
CHILD	1.78E-04	1.78E-04	2.54E-07	1.78E-04	1.78E-04	1.87E-04	1.78E-04	1.78E-04
INFANT	1.02E-04	1.02E-04	1.29E-07	1.02E-04	1.02E-04	1.10E-04	1.02E-04	1.02E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 4 VEG  
 AT 3.32 MILES NE

BETA AIR DOSE = 1.98E-04 MILLRADS  
 GAMMA AIR DOSE = 9.04E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.52E-05	5.52E-05	5.52E-05	5.52E-05	5.52E-05	5.52E-05	5.71E-05	1.40E-04
GROUND	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.51E-07	1.76E-07
VEGET								
ADULT	6.78E-05	6.77E-05	2.68E-07	6.78E-05	6.77E-05	6.93E-05	6.77E-05	6.77E-05
TEEN	7.76E-05	7.75E-05	3.66E-07	7.77E-05	7.76E-05	7.88E-05	7.75E-05	7.75E-05
CHILD	1.20E-04	1.20E-04	7.15E-07	1.20E-04	1.20E-04	1.22E-04	1.20E-04	1.20E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 5 RES.VEG  
 AT 4.79 MILES ENE

BETA AIR DOSE = 1.42E-04 MILLRADS  
 GAMMA AIR DOSE = 5.96E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.60E-05	3.60E-05	3.60E-05	3.60E-05	3.60E-05	3.60E-05	3.74E-05	9.47E-05
GROUND	9.87E-08	9.87E-08	9.87E-08	9.87E-08	9.87E-08	9.87E-08	9.87E-08	1.15E-07
VEGET								
ADULT	5.01E-05	5.00E-05	1.75E-07	5.01E-05	5.00E-05	5.10E-05	5.00E-05	5.00E-05
TEEN	5.73E-05	5.72E-05	2.39E-07	5.74E-05	5.73E-05	5.81E-05	5.72E-05	5.72E-05
CHILD	8.87E-05	8.86E-05	4.68E-07	8.89E-05	8.87E-05	8.99E-05	8.86E-05	8.86E-05
INHAL								
ADULT	2.77E-05	2.77E-05	2.48E-08	2.77E-05	2.77E-05	2.85E-05	2.77E-05	2.77E-05
TEEN	2.79E-05	2.79E-05	2.92E-08	2.79E-05	2.79E-05	2.89E-05	2.79E-05	2.79E-05
CHILD	2.46E-05	2.46E-05	3.13E-08	2.46E-05	2.46E-05	2.58E-05	2.46E-05	2.46E-05
INFANT	1.42E-05	1.42E-05	1.59E-08	1.42E-05	1.42E-05	1.52E-05	1.42E-05	1.42E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 6 RES  
 AT 4.67 MILES E

BETA AIR DOSE = 1.78E-04 MILLRADS  
 GAMMA AIR DOSE = 8.01E-05 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.88E-05	4.88E-05	4.88E-05	4.88E-05	4.88E-05	4.88E-05	5.06E-05	1.24E-04
GROUND	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.56E-07	1.82E-07
INHAL								
ADULT	3.38E-05	3.38E-05	3.05E-08	3.38E-05	3.38E-05	3.49E-05	3.38E-05	3.38E-05
TEEN	3.41E-05	3.40E-05	3.58E-08	3.41E-05	3.41E-05	3.53E-05	3.40E-05	3.40E-05
CHILD	3.01E-05	3.01E-05	3.84E-08	3.01E-05	3.01E-05	3.15E-05	3.01E-05	3.01E-05
INFANT	1.73E-05	1.73E-05	1.55E-08	1.73E-05	1.73E-05	1.86E-05	1.73E-05	1.73E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 7 VEG  
 AT 4.92 MILES E

BETA AIR DOSE = 1.63E-04 MILLRADS  
 GAMMA AIR DOSE = 7.25E-05 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.42E-05	4.42E-05	4.42E-05	4.42E-05	4.42E-05	4.42E-05	4.57E-05	1.13E-04
GROUND	1.46E-07	1.46E-07	1.46E-07	1.46E-07	1.46E-07	1.46E-07	1.46E-07	1.70E-07
VEGET								
ADULT	5.61E-05	5.59E-05	2.60E-07	5.61E-05	5.60E-05	5.75E-05	5.59E-05	5.59E-05
TEEN	6.42E-05	6.40E-05	3.54E-07	6.42E-05	6.41E-05	6.53E-05	6.41E-05	6.40E-05
CHILD	9.93E-05	9.92E-05	6.93E-07	9.95E-05	9.93E-05	1.01E-04	9.92E-05	9.92E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 8 RES, VEG  
 AT 4.19 MILES ESE

BETA AIR DOSE = 1.96E-04 MILLRADS  
 GAMMA AIR DOSE = 9.14E-05 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.60E-05	5.60E-05	5.60E-05	5.60E-05	5.60E-05	5.60E-05	5.78E-05	1.40E-04
GROUND	3.44E-07	3.44E-07	3.44E-07	3.44E-07	3.44E-07	3.44E-07	3.44E-07	4.02E-07
VEGET								
ADULT	6.65E-05	6.62E-05	6.12E-07	6.65E-05	6.63E-05	6.98E-05	6.62E-05	6.62E-05
TEEN	7.61E-05	7.58E-05	8.35E-07	7.63E-05	7.60E-05	7.88E-05	7.58E-05	7.58E-05
CHILD	1.18E-04	1.17E-04	1.63E-06	1.18E-04	1.18E-04	1.22E-04	1.17E-04	1.17E-04
INHAL								
ADULT	3.67E-05	3.67E-05	3.34E-08	3.67E-05	3.67E-05	3.78E-05	3.67E-05	3.67E-05
TEEN	3.69E-05	3.69E-05	3.93E-08	3.69E-05	3.69E-05	3.83E-05	3.69E-05	3.69E-05
CHILD	3.26E-05	3.26E-05	4.21E-08	3.26E-05	3.26E-05	3.42E-05	3.26E-05	3.26E-05
INFANT	1.88E-05	1.88E-05	2.14E-08	1.88E-05	1.88E-05	2.02E-05	1.88E-05	1.88E-05



TABLE A-9

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 9 RES, VEG  
 AT 1.68 MILES SE

BETA AIR DOSE = 1.13E-03 MILLRADS  
 GAMMA AIR DOSE = 6.71E-04 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.20E-04	4.20E-04	4.20E-04	4.20E-04	4.20E-04	4.20E-04	4.30E-04	9.53E-04
GROUND	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.20E-06	3.73E-06
VEGET								
ADULT	3.57E-04	3.54E-04	5.69E-06	3.57E-04	3.55E-04	3.88E-04	3.54E-04	3.54E-04
TEEN	4.08E-04	4.06E-04	7.76E-06	4.10E-04	4.07E-04	4.34E-04	4.06E-04	4.05E-04
CHILD	6.31E-04	6.28E-04	1.52E-05	6.36E-04	6.31E-04	6.71E-04	6.29E-04	6.28E-04
INHAL								
ADULT	1.96E-04	1.96E-04	1.96E-07	1.96E-04	1.96E-04	2.03E-04	1.96E-04	1.96E-04
TEEN	1.97E-04	1.97E-04	2.30E-07	1.98E-04	1.98E-04	2.05E-04	1.97E-04	1.97E-04
CHILD	1.75E-04	1.75E-04	2.47E-07	1.75E-04	1.75E-04	1.83E-04	1.75E-04	1.75E-04
INFANT	1.00E-04	1.00E-04	1.25E-07	1.00E-04	1.00E-04	1.08E-04	1.00E-04	1.00E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 10 RES  
 AT 0.88 MILES SSE

BETA AIR DOSE = 2.18E-03 MILLRADS  
 GAMMA AIR DOSE = 1.43E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.99E-04	8.99E-04	8.99E-04	8.99E-04	8.99E-04	8.99E-04	9.19E-04	1.97E-03
GROUND	7.50E-06	7.50E-06	7.50E-06	7.50E-06	7.50E-06	7.50E-06	7.50E-06	8.75E-06
INHAL								
ADULT	3.66E-04	3.66E-04	3.81E-07	3.66E-04	3.66E-04	3.78E-04	3.66E-04	3.66E-04
TEEN	3.68E-04	3.68E-04	4.47E-07	3.68E-04	3.68E-04	3.83E-04	3.68E-04	3.68E-04
CHILD	3.26E-04	3.26E-04	4.79E-07	3.26E-04	3.26E-04	3.42E-04	3.26E-04	3.26E-04
INFANT	1.87E-04	1.87E-04	2.42E-07	1.87E-04	1.87E-04	2.02E-04	1.87E-04	1.87E-04



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 11 VEG  
 AT 1.11 MILES SSE

BETA AIR DOSE = 1.25E-03 MILLRADS  
 GAMMA AIR DOSE = 8.19E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.17E-04	5.17E-04	5.17E-04	5.17E-04	5.17E-04	5.17E-04	5.28E-04	1.13E-03
GROUND	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	4.64E-06
VEGET								
ADULT	3.79E-04	3.76E-04	7.07E-06	3.79E-04	3.77E-04	4.18E-04	3.76E-04	3.76E-04
TEEN	4.33E-04	4.30E-04	9.65E-06	4.36E-04	4.32E-04	4.65E-04	4.31E-04	4.30E-04
CHILD	6.70E-04	6.66E-04	1.89E-05	6.75E-04	6.69E-04	7.20E-04	6.67E-04	6.66E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 12 BEEF  
 AT 2.51 MILES SSE

BETA AIR DOSE = 1.87E-04 MILLRADS  
 GAMMA AIR DOSE = 1.05E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.57E-05	6.57E-05	6.57E-05	6.57E-05	6.57E-05	6.57E-05	6.74E-05	1.52E-04
GROUND	5.31E-07	5.31E-07	5.31E-07	5.31E-07	5.31E-07	5.31E-07	5.31E-07	6.19E-07
MEAT								
ADULT	8.62E-06	8.59E-06	4.38E-08	8.63E-06	8.61E-06	9.27E-06	8.59E-06	8.59E-06
TEEN	5.14E-06	5.12E-06	3.48E-08	5.16E-06	5.14E-06	5.62E-06	5.13E-06	5.12E-06
CHILD	6.20E-06	6.19E-06	6.11E-08	6.24E-06	6.21E-06	6.94E-06	6.19E-06	6.19E-06

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 13 RES, VEG  
 AT 0.72 MILES S

BETA AIR DOSE = 2.81E-03 MILLRADS  
 GAMMA AIR DOSE = 1.78E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.12E-03	1.12E-03	1.12E-03	1.12E-03	1.12E-03	1.12E-03	1.15E-03	2.48E-03
GROUND	6.44E-06	6.44E-06	6.44E-06	6.44E-06	6.44E-06	6.44E-06	6.44E-06	7.52E-06
VEGET								
ADULT	8.64E-04	8.59E-04	1.15E-05	8.65E-04	8.61E-04	9.28E-04	8.59E-04	8.59E-04
TEEN	9.89E-04	9.84E-04	1.56E-05	9.92E-04	9.87E-04	1.04E-03	9.84E-04	9.83E-04
CHILD	1.53E-03	1.52E-03	3.06E-05	1.54E-03	1.53E-03	1.61E-03	1.52E-03	1.52E-03
INHAL								
ADULT	4.76E-04	4.76E-04	5.01E-07	4.76E-04	4.76E-04	4.92E-04	4.76E-04	4.76E-04
TEEN	4.79E-04	4.79E-04	5.88E-07	4.79E-04	4.79E-04	4.98E-04	4.79E-04	4.79E-04
CHILD	4.23E-04	4.23E-04	6.29E-07	4.24E-04	4.24E-04	4.45E-04	4.23E-04	4.23E-04
INFANT	2.44E-04	2.43E-04	3.18E-07	2.44E-04	2.44E-04	2.63E-04	2.44E-04	2.43E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 14 BEEF  
 AT 1.98 MILES S

BETA AIR DOSE = 2.55E-04 MILLRADS  
 GAMMA AIR DOSE = 1.42E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.84E-05	8.84E-05	8.84E-05	8.84E-05	8.84E-05	8.84E-05	9.08E-05	2.06E-04
GROUND	5.02E-07	5.02E-07	5.02E-07	5.02E-07	5.02E-07	5.02E-07	5.02E-07	5.86E-07
MEAT								
ADULT	1.17E-05	1.17E-05	4.14E-08	1.17E-05	1.17E-05	1.24E-05	1.17E-05	1.17E-05
TEEN	6.99E-06	6.98E-06	3.29E-08	7.02E-06	7.00E-06	7.45E-06	6.99E-06	6.98E-06
CHILD	8.44E-06	8.43E-06	5.78E-08	8.48E-06	8.45E-06	9.14E-06	8.44E-06	8.43E-06

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 15 COW  
 AT 2.74 MILES S

BETA AIR DOSE = 1.22E-04 MILLRADS  
 GAMMA AIR DOSE = 6.55E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.06E-05	4.06E-05	4.06E-05	4.06E-05	4.06E-05	4.06E-05	4.18E-05	9.60E-05
GROUND	2.36E-07	2.36E-07	2.36E-07	2.36E-07	2.36E-07	2.36E-07	2.36E-07	2.75E-07
COW MILK								
ADULT	1.35E-05	1.34E-05	1.14E-07	1.35E-05	1.35E-05	1.76E-05	1.34E-05	1.34E-05
TEEN	1.76E-05	1.75E-05	2.02E-07	1.77E-05	1.76E-05	2.41E-05	1.75E-05	1.75E-05
CHILD	2.77E-05	2.76E-05	4.76E-07	2.80E-05	2.78E-05	4.08E-05	2.76E-05	2.76E-05
INFANT	4.20E-05	4.19E-05	7.67E-07	4.27E-05	4.22E-05	7.38E-05	4.19E-05	4.19E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 16 RES  
 AT 0.63 MILES SSW

BETA AIR DOSE = 2.45E-03 MILLRADS  
 GAMMA AIR DOSE = 1.57E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.88E-04	9.88E-04	9.88E-04	9.88E-04	9.88E-04	9.88E-04	1.01E-03	2.18E-03
GROUND	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.25E-07	3.79E-07
INHAL								
ADULT	4.13E-04	4.13E-04	4.40E-07	4.13E-04	4.13E-04	4.26E-04	4.13E-04	4.13E-04
TEEN	4.15E-04	4.15E-04	5.16E-07	4.15E-04	4.15E-04	4.32E-04	4.15E-04	4.15E-04
CHILD	3.67E-04	3.67E-04	5.52E-07	3.67E-04	3.67E-04	3.86E-04	3.67E-04	3.67E-04
INFANT	2.11E-04	2.11E-04	2.79E-07	2.11E-04	2.11E-04	2.28E-04	2.11E-04	2.11E-04



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 1 VEG  
 AT 1.14 MILES SSW

BETA AIR DOSE = 6.89E-04 MILLRADS  
 GAMMA AIR DOSE = 4.04E-04 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.53E-04	2.53E-04	2.53E-04	2.53E-04	2.53E-04	2.53E-04	2.59E-04	5.76E-04
GROUND	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.83E-07	3.83E-07	4.47E-07
VEGET								
ADULT	2.17E-04	2.17E-04	6.80E-07	2.17E-04	2.17E-04	2.21E-04	2.17E-04	2.17E-04
TEEN	2.49E-04	2.48E-04	9.28E-07	2.49E-04	2.48E-04	2.52E-04	2.48E-04	2.48E-04
CHILD	3.85E-04	3.84E-04	1.82E-06	3.85E-04	3.85E-04	3.90E-04	3.85E-04	3.84E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 2 BEEF  
 AT 1.99 MILES SSW

BETA AIR DOSE = 1.88E-04 MILLRADS  
 GAMMA AIR DOSE = 1.06E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.59E-05	6.59E-05	6.59E-05	6.59E-05	6.59E-05	6.59E-05	6.77E-05	1.53E-04
GROUND	3.58E-07	3.58E-07	3.58E-07	3.58E-07	3.58E-07	3.58E-07	3.58E-07	4.17E-07
MEAT								
ADULT	8.63E-06	8.61E-06	2.95E-08	8.64E-06	8.62E-06	9.07E-06	8.61E-06	8.61E-06
TEEN	5.15E-06	5.14E-06	2.34E-08	5.16E-06	5.15E-06	5.47E-06	5.14E-06	5.14E-06
CHILD	6.21E-06	6.20E-06	4.11E-08	6.24E-06	6.22E-06	6.71E-06	6.21E-06	6.20E-06



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 3 RES  
 AT 0.72 MILES SW

BETA AIR DOSE = 2.07E-03 MILLRADS  
 GAMMA AIR DOSE = 1.31E-03 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.25E-04	8.25E-04	8.25E-04	8.25E-04	8.25E-04	8.25E-04	8.44E-04	1.83E-03
GROUND	9.52E-07	9.52E-07	9.52E-07	9.52E-07	9.52E-07	9.52E-07	9.52E-07	1.11E-06
INHAL								
ADULT	3.51E-04	3.51E-04	3.69E-07	3.51E-04	3.51E-04	3.63E-04	3.51E-04	3.51E-04
TEEN	3.53E-04	3.53E-04	4.33E-07	3.54E-04	3.53E-04	3.68E-04	3.53E-04	3.53E-04
CHILD	3.13E-04	3.12E-04	4.64E-07	3.13E-04	3.13E-04	3.28E-04	3.13E-04	3.12E-04
INFANT	1.80E-04	1.80E-04	2.35E-07	1.80E-04	1.80E-04	1.94E-04	1.80E-04	1.80E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 4 BEEF  
 AT 0.82 MILES SW

BETA AIR DOSE = 1.55E-03 MILLRADS  
 GAMMA AIR DOSE = 9.53E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.99E-04	5.99E-04	5.99E-04	5.99E-04	5.99E-04	5.99E-04	6.13E-04	1.34E-03
GROUND	4.00E-06	4.00E-06	4.00E-06	4.00E-06	4.00E-06	4.00E-06	4.00E-06	4.67E-06
MEAT								
ADULT	6.90E-05	6.87E-05	3.30E-07	6.91E-05	6.89E-05	7.39E-05	6.88E-05	6.87E-05
TEEN	4.11E-05	4.10E-05	2.63E-07	4.13E-05	4.11E-05	4.48E-05	4.10E-05	4.10E-05
CHILD	4.96E-05	4.95E-05	4.61E-07	4.99E-05	4.97E-05	5.52E-05	4.96E-05	4.95E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 5 VEG  
 AT 2.35 MILES SW

BETA AIR DOSE = 1.41E-04 MILLRADS  
 GAMMA AIR DOSE = 7.50E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.65E-05	4.65E-05	4.65E-05	4.65E-05	4.65E-05	4.65E-05	4.78E-05	1.10E-04
GROUND	1.61E-08	1.61E-08	1.61E-08	1.61E-08	1.61E-08	1.61E-08	1.61E-08	1.88E-08
VEGET								
ADULT	4.57E-05	4.57E-05	2.86E-08	4.57E-05	4.57E-05	4.58E-05	4.57E-05	4.57E-05
TEEN	5.23E-05	5.23E-05	3.90E-08	5.23E-05	5.23E-05	5.24E-05	5.23E-05	5.23E-05
CHILD	8.10E-05	8.10E-05	7.63E-08	8.10E-05	8.10E-05	8.12E-05	8.10E-05	8.10E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 6 RES  
 AT 1.05 MILES WSW

BETA AIR DOSE = 1.34E-03 MILLRADS  
 GAMMA AIR DOSE = 8.46E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.32E-04	5.32E-04	5.32E-04	5.32E-04	5.32E-04	5.32E-04	5.44E-04	1.18E-03
GROUND	8.13E-08	8.13E-08	8.13E-08	8.13E-08	8.13E-08	8.13E-08	8.13E-08	9.48E-08
INHAL								
ADULT	2.27E-04	2.27E-04	2.36E-07	2.27E-04	2.27E-04	2.35E-04	2.27E-04	2.27E-04
TEEN	2.29E-04	2.29E-04	2.77E-07	2.29E-04	2.29E-04	2.38E-04	2.29E-04	2.29E-04
CHILD	2.02E-04	2.02E-04	2.97E-07	2.02E-04	2.02E-04	2.13E-04	2.02E-04	2.02E-04
INFANT	1.16E-04	1.16E-04	1.50E-07	1.16E-04	1.16E-04	1.26E-04	1.16E-04	1.16E-04

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 7 VEG  
 AT 1.23 MILES WSW

BETA AIR DOSE =  $9.12\text{E-}04$  MILLRADS  
 GAMMA AIR DOSE =  $5.54\text{E-}04$  MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	$3.47\text{E-}04$	$3.47\text{E-}04$	$3.47\text{E-}04$	$3.47\text{E-}04$	$3.47\text{E-}04$	$3.47\text{E-}04$	$3.56\text{E-}04$	$7.81\text{E-}04$
GROUND	$3.01\text{E-}07$	$3.01\text{E-}07$	$3.01\text{E-}07$	$3.01\text{E-}07$	$3.01\text{E-}07$	$3.01\text{E-}07$	$3.01\text{E-}07$	$3.52\text{E-}07$
VEGET								
ADULT	$2.83\text{E-}04$	$2.83\text{E-}04$	$5.36\text{E-}07$	$2.83\text{E-}04$	$2.83\text{E-}04$	$2.86\text{E-}04$	$2.83\text{E-}04$	$2.83\text{E-}04$
TEEN	$3.24\text{E-}04$	$3.24\text{E-}04$	$7.31\text{E-}07$	$3.24\text{E-}04$	$3.24\text{E-}04$	$3.27\text{E-}04$	$3.24\text{E-}04$	$3.24\text{E-}04$
CHILD	$5.02\text{E-}04$	$5.02\text{E-}04$	$1.43\text{E-}06$	$5.03\text{E-}04$	$5.02\text{E-}04$	$5.06\text{E-}04$	$5.02\text{E-}04$	$5.02\text{E-}04$

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 8 BEEF  
 AT 2.45 MILES WSW

BETA AIR DOSE = 1.92E-04 MILLRADS  
 GAMMA AIR DOSE = 1.08E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.76E-05	6.76E-05	6.76E-05	6.76E-05	6.76E-05	6.76E-05	6.93E-05	1.56E-04
GROUND	3.66E-07	3.66E-07	3.66E-07	3.66E-07	3.66E-07	3.66E-07	3.66E-07	4.27E-07
MEAT								
ADULT	8.80E-06	8.78E-06	3.02E-08	8.81E-06	8.79E-06	9.25E-06	8.78E-06	8.78E-06
TEEN	5.25E-06	5.24E-06	2.40E-08	5.26E-06	5.25E-06	5.58E-06	5.24E-06	5.24E-06
CHILD	6.33E-06	6.32E-06	4.21E-08	6.36E-06	6.34E-06	6.84E-06	6.33E-06	6.32E-06

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 9 RES  
 AT 1.17 MILES W

BETA AIR DOSE = 1.53E-03 MILLRADS  
 GAMMA AIR DOSE = 9.76E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.15E-04	6.15E-04	6.15E-04	6.15E-04	6.15E-04	6.15E-04	6.28E-04	1.36E-03
GROUND	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	3.98E-06	4.64E-06
INHAL								
ADULT	2.59E-04	2.59E-04	2.63E-07	2.59E-04	2.59E-04	2.67E-04	2.59E-04	2.59E-04
TEEN	2.60E-04	2.60E-04	3.09E-07	2.60E-04	2.60E-04	2.71E-04	2.60E-04	2.60E-04
CHILD	2.30E-04	2.30E-04	3.31E-07	2.30E-04	2.30E-04	2.42E-04	2.30E-04	2.30E-04
INFANT	1.32E-04	1.32E-04	1.68E-07	1.32E-04	1.32E-04	1.43E-04	1.32E-04	1.32E-04



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 10 VEG  
 AT 1.20 MILES W

BETA AIR DOSE = 1.52E-03 MILLRADS  
 GAMMA AIR DOSE = 9.69E-04 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.23E-04	1.35E-03
GROUND	3.96E-05	3.96E-06	3.96E-06	3.96E-06	3.96E-06	3.96E-06	3.96E-06	4.62E-06
VEGET								
ADULT	4.67E-04	4.64E-04	7.04E-06	4.67E-04	4.65E-04	5.06E-04	4.64E-04	4.63E-04
TEEN	5.34E-04	5.31E-04	9.61E-06	5.36E-04	5.33E-04	5.66E-04	5.31E-04	5.30E-04
CHILD	8.25E-04	8.22E-04	1.88E-05	8.31E-04	8.25E-04	8.75E-04	8.23E-04	8.22E-04



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 11 BEEF  
 AT 2.06 MILES W

5 BETA AIR DOSE = 4.38E-04 MILLRADS  
 GAMMA AIR DOSE = 2.62E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.64E-04	1.64E-04	1.64E-04	1.64E-04	1.64E-04	1.64E-04	1.66E-04	3.71E-04
GROUND	9.83E-07	9.83E-07	9.83E-07	9.83E-07	9.83E-07	9.83E-07	9.83E-07	1.15E-06
MEAT								
ADULT	1.97E-05	1.97E-05	8.11E-08	1.98E-05	1.97E-05	2.09E-05	1.97E-05	1.97E-05
TEEN	1.18E-05	1.17E-05	6.44E-08	1.18E-05	1.18E-05	1.27E-05	1.17E-05	1.17E-05
CHILD	1.42E-05	1.42E-05	1.13E-07	1.43E-05	1.42E-05	1.56E-05	1.42E-05	1.42E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 12 RES, VEG  
 AT 2.04 MILES WNW

BETA AIR DOSE = 8.93E-04 MILLRADS  
 GAMMA AIR DOSE = 5.11E-04 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.19E-04	3.19E-04	3.19E-04	3.19E-04	3.19E-04	3.19E-04	3.27E-04	7.34E-04
GROUND	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.62E-06	1.89E-06
VEGET								
ADULT	2.84E-04	2.83E-04	2.87E-06	2.84E-04	2.84E-04	3.00E-04	2.83E-04	2.83E-04
TEEN	3.25E-04	3.24E-04	3.92E-06	3.26E-04	3.25E-04	3.38E-04	3.24E-04	3.24E-04
CHILD	5.03E-04	5.02E-04	7.66E-06	5.06E-04	5.03E-04	5.23E-04	5.02E-04	5.02E-04
INHAL								
ADULT	1.57E-04	1.57E-04	1.55E-07	1.57E-04	1.57E-04	1.62E-04	1.57E-04	1.57E-04
TEEN	1.58E-04	1.58E-04	1.82E-07	1.58E-04	1.58E-04	1.64E-04	1.58E-04	1.58E-04
CHILD	1.40E-04	1.40E-04	1.95E-07	1.40E-04	1.40E-04	1.46E-04	1.40E-04	1.40E-04
INFANT	8.02E-05	8.02E-05	9.88E-08	8.03E-05	8.03E-05	8.65E-05	8.02E-05	8.02E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 13 BEEF  
 AT 2.74 MILES WNW

BETA AIR DOSE = 4.85E-04 MILLRADS  
 GAMMA AIR DOSE = 2.63E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.63E-04	1.63E-04	1.63E-04	1.63E-04	1.63E-04	1.63E-04	1.68E-04	3.84E-04
GROUND	8.26E-07	8.26E-07	8.26E-07	8.26E-07	8.26E-07	8.26E-07	8.26E-07	9.64E-07
MEAT								
ADULT	2.25E-05	2.25E-05	6.82E-08	2.26E-05	2.25E-05	2.35E-05	2.25E-05	2.25E-05
TEEN	1.34E-05	1.34E-05	5.42E-08	1.35E-05	1.34E-05	1.42E-05	1.34E-05	1.34E-05
CHILD	1.62E-05	1.62E-05	9.51E-08	1.63E-05	1.62E-05	1.74E-05	1.62E-05	1.62E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 14 RES, VEG  
 AT 2.43 MILES NW

BETA AIR DOSE = 4.45E-04 MILLRADS  
 GAMMA AIR DOSE = 2.40E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.53E-04	3.51E-04
GROUND	9.52E-07	9.52E-07	9.52E-07	9.52E-07	9.52E-07	9.52E-07	9.52E-07	1.11E-06
VEGET								
ADULT	1.45E-04	1.44E-04	1.69E-06	1.45E-04	1.44E-04	1.54E-04	1.44E-04	1.44E-04
TEEN	1.66E-04	1.65E-04	2.31E-06	1.66E-04	1.65E-04	1.73E-04	1.65E-04	1.65E-04
CHILD	2.56E-04	2.55E-04	4.51E-06	2.58E-04	2.56E-04	2.68E-04	2.56E-04	2.55E-04
INHAL								
ADULT	7.98E-05	7.98E-05	7.74E-08	7.98E-05	7.98E-05	8.23E-05	7.98E-05	7.98E-05
TEEN	8.03E-05	8.03E-05	9.09E-08	8.03E-05	8.03E-05	8.34E-05	8.03E-05	8.03E-05
CHILD	7.10E-05	7.10E-05	9.74E-08	7.10E-05	7.10E-05	7.44E-05	7.10E-05	7.10E-05
INFANT	4.08E-05	4.08E-05	4.94E-08	4.08E-05	4.08E-05	4.40E-05	4.08E-05	4.08E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 15 COW,PORK,BEEF  
 AT 3.47 MILES NW

BETA AIR DOSE = 2.16E-04 MILLRADS  
 GAMMA AIR DOSE = 1.07E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.58E-05	6.58E-05	6.58E-05	6.58E-05	6.58E-05	6.58E-05	6.78E-05	1.61E-04
GROUND	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.74E-07
MEAT								
ADULT	1.03E-05	1.03E-05	3.35E-08	1.04E-05	1.03E-05	1.08E-05	1.03E-05	1.03E-05
TEEN	6.17E-06	6.16E-06	2.66E-08	6.19E-06	6.17E-06	6.54E-06	6.16E-06	6.16E-06
CHILD	7.45E-06	7.44E-06	4.67E-08	7.48E-06	7.45E-06	8.01E-06	7.44E-06	7.44E-06
COW MILK								
ADULT	2.44E-05	2.43E-05	1.96E-07	2.45E-05	2.44E-05	3.15E-05	2.43E-05	2.42E-05
TEEN	3.17E-05	3.16E-05	3.48E-07	3.20E-05	3.18E-05	4.30E-05	3.16E-05	3.16E-05
CHILD	5.00E-05	4.99E-05	8.20E-07	5.06E-05	5.02E-05	7.25E-05	5.00E-05	4.99E-05
INFANT	7.59E-05	7.57E-05	1.32E-06	7.72E-05	7.62E-05	1.31E-04	7.58E-05	7.57E-05

FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 02-04-93  
 SPECIAL LOCATION # 16 RES  
 AT 2.02 MILES NNW

BETA AIR DOSE = 5.68E-04 MILLRADS  
 GAMMA AIR DOSE = 3.23E-04 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.01E-04	2.01E-04	2.01E-04	2.01E-04	2.01E-04	2.01E-04	2.06E-04	4.64E-04
GROUND	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.19E-06	1.39E-06
INHAL								
ADULT	1.00E-04	9.99E-05	9.88E-08	1.00E-04	1.00E-04	1.03E-04	9.99E-05	9.99E-05
TEEN	1.01E-04	1.01E-04	1.16E-07	1.01E-04	1.01E-04	1.05E-04	1.01E-04	1.01E-04
CHILD	8.89E-05	8.89E-05	1.24E-07	8.90E-05	8.90E-05	9.33E-05	8.89E-05	8.89E-05
INFANT	5.11E-05	5.11E-05	6.30E-08	5.12E-05	5.12E-05	5.51E-05	5.11E-05	5.11E-05



FORT CALHOUN 1 RECEPTORS IN ALL SECTORS 07-20-92  
 SPECIAL LOCATION # 1 VEG  
 AT 4.14 MILES NNW

BETA AIR DOSE = 1.30E-04 MILLRADS  
 GAMMA AIR DOSE = 6.14E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.76E-05	3.76E-05	3.76E-05	3.76E-05	3.76E-05	3.76E-05	3.89E-05	9.38E-05
GROUND	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.63E-07
VEGET								
ADULT	4.42E-05	4.40E-05	4.01E-07	4.42E-05	4.41E-05	4.64E-05	4.40E-05	4.40E-05
TEEN	5.06E-05	5.04E-05	5.48E-07	5.07E-05	5.05E-05	5.24E-05	5.04E-05	5.04E-05
CHILD	7.83E-05	7.81E-05	1.07E-06	7.86E-05	7.82E-05	8.11E-05	7.81E-05	7.81E-05



FORT CALHOUN 1      DOSE CONTRIBUTIONS FROM GASEOUS EFFLUENTS  
UNRESTRICTED AREA BOUNDARY  
REQUIRED BY TECHNICAL SPECIFICATION 5.9.4.a.

SEMIANNUAL FOR JUL TO    DEC 92

MAXIMUM SITE BOUNDARY GAMMA AIR DOSE =    1.90E-03 MILLIRAD  
MAXIMUM SITE BOUNDARY BETA AIR DOSE =    2.76E-03 MILLIRAD

FORT CALHOUN SEMIANNUAL 07/92-12/92 TRI-EX TOWER DATA 02-05-93  
ALARA INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.13E-03 22.49%	1.13E-03 22.53%	1.13E-03 97.27%	1.13E-03 22.46%	1.13E-03 22.50%	1.13E-03 20.88%	1.20E-03 23.44%	3.54E-03 47.57%
GROUND	7.66E-06 0.15%	7.66E-06 0.15%	7.66E-06 0.66%	7.66E-06 0.15%	7.66E-06 0.15%	7.66E-06 0.14%	7.66E-06 0.15%	8.94E-06 0.12%
INHAL	1.22E-03 24.24%	1.22E-03 24.28%	1.08E-06 0.09%	1.22E-03 24.22%	1.22E-03 24.26%	1.28E-03 23.23%	1.22E-03 23.99%	1.22E-03 16.43%
VEGET	1.82E-03 36.03%	1.81E-03 35.98%	1.77E-05 1.51%	1.82E-03 36.05%	1.82E-03 36.00%	2.04E-03 37.57%	1.81E-03 35.55%	1.81E-03 24.33%
COW MILK	4.53E-04 8.97%	4.51E-04 8.95%	4.15E-06 0.36%	4.55E-04 9.01%	4.53E-04 8.98%	5.61E-04 10.33%	4.51E-04 8.85%	4.51E-04 6.06%
MEAT	4.09E-04 8.11%	4.09E-04 8.11%	1.24E-06 0.11%	4.10E-04 8.11%	4.09E-04 8.11%	4.27E-04 7.85%	4.09E-04 8.02%	4.09E-04 5.49%
*TOTAL*	5.05E-03	5.04E-03	1.17E-03	5.05E-03	5.04E-03	5.43E-03	5.10E-03	7.45E-03

FT. CALHOUN SEMIANNUAL RELEASES FOR JUL 1992 TO DEC 1992 02-07-93 RETS

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

50-MILE POPULATION=7.80E+05 FRACTION --- ADULT=0.66  
TEENAGER=0.14  
CHILD=0.20

FRESHWATER SITE

FT. CALHOUN S. TERMS07/92-12/92

J RECONCENTRATION OF NUCLIDES

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

ISOTOPE	CURIE/5YR	INGESTION DOSE FACTORS										SHORELINE		
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON			
38SR	89	3.08E-04	0.00E+00	8.84E-06	0.00E+00	0.00E+00	0.00E+00	4.94E-05	6.50E-13	5.60E-13	1.00E+00			
38SR	90	7.58E-03	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	1.00E+00			
58CE	141	5.16E-05	9.36E-09	6.33E-09	7.18E-10	0.00E+00	2.94E-09	2.42E-05	6.20E-10	5.50E-10	1.00E+00			
58CE	144	5.21E-04	4.88E-07	2.04E-07	2.62E-08	0.00E+00	1.21E-07	0.00E+00	3.70E-10	3.20E-10	1.00E+00			
45RH	103M	3.09E-04	1.85E-07	0.00E+00	7.97E-08	0.00E+00	7.06E-07	2.16E-05	4.20E-09	3.60E-09	1.00E+00			
50SN	113	2.81E-04	7.91E-06	2.18E-07	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00			
52TE	132	7.03E-06	2.52E-05	1.63E-06	1.53E-06	1.80E-06	1.57E-05	7.71E-05	2.00E-09	1.70E-09	1.00E+00			
90TH	234	6.39E-05	8.01E-08	4.71E-09	2.31E-09	0.00E+00	2.67E-08	1.13E-04	1.30E-10	1.10E-10	1.00E+00			
50SN	117M	1.37E-05	2.15E-06	5.69E-08	1.65E-07	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00			
48E	7	1.76E-04	2.74E-09	6.21E-09	3.05E-09	0.00E+00	6.56E-09	1.08E-06	0.00E+00	0.00E+00	1.00E+00			
39Y	90	9.36E-05	9.62E-09	0.00E+00	2.58E-10	0.00E+00	0.00E+00	1.02E-04	2.60E-12	2.20E-12	1.00E+00			
53I	131	1.50E-04	4.16E-06	5.95E-06	3.41E-06	1.95E-03	1.02E-05	1.57E-06	3.40E-09	2.30E-09	1.00E+00			
58CS	137	1.50E-03	7.97E-05	1.09E-04	7.14E-05	0.00E+00	3.70E-05	2.11E-06	4.80E-08	4.20E-09	1.00E+00			
41NB	95	8.66E-04	6.22E-09	3.46E-09	1.86E-09	0.00E+00	3.42E-09	2.10E-05	8.00E-09	5.10E-09	1.00E+00			
55CS	134	3.79E-04	6.22E-05	1.48E-04	1.21E-04	0.00E+00	4.79E-05	2.59E-06	1.40E-08	1.20E-08	1.00E+00			
27CO	58	2.77E-02	0.00E+00	7.45E-07	1.67E-06	0.00E+00	0.00E+00	1.51E-05	8.20E-09	7.00E-09	1.00E+00			
25MN	54	6.86E-04	0.00E+00	4.57E-06	8.72E-07	0.00E+00	1.36E-06	1.40E-05	6.80E-09	5.80E-09	1.00E+00			
27CO	60	7.77E-03	0.00E+00	2.14E-06	4.72E-06	0.00E+00	0.00E+00	4.02E-05	2.00E-08	1.70E-08	1.00E+00			
27CO	57	4.71E-05	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			
57LA	140	3.21E-03	2.50E-09	1.26E-09	3.33E-10	0.00E+00	0.00E+00	9.25E-05	1.70E-08	1.50E-08	1.00E+00			
51SB	122	5.87E-06	2.25E-07	4.41E-09	6.55E-08	3.16E-09	0.00E+00	6.59E-05	0.00E+00	0.00E+00	1.00E+00			
51SB	125	3.36E-02	1.79E-06	2.00E-08	4.26E-07	1.82E-09	0.00E+00	1.97E-05	3.50E-09	3.10E-09	1.00E+00			
51SB	124	3.10E-03	2.80E-06	5.29E-08	1.11E-06	6.79E-09	0.00E+00	7.95E-05	1.50E-08	1.30E-08	1.00E+00			
51SB	126	8.00E-06	1.15E-06	2.34E-08	4.15E-07	7.04E-09	0.00E+00	9.40E-05	1.00E-08	8.90E-09	1.00E+00			
47AG	110M	7.10E-03	1.60E-07	1.48E-07	8.79E-08	0.00E+00	2.91E-07	6.04E-05	2.10E-08	1.80E-08	1.00E+00			
1H	3	6.69E+01	0.00E+00	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	0.00E+00	0.00E+00	1.00E+00			
6C	14	2.45E-03	2.84E-06	5.68E-07	5.68E-07	5.68E-07	5.68E-07	5.68E-07	0.00E+00	0.00E+00	1.00E+00			
26FE	55	2.62E-03	2.75E-06	1.90E-06	4.43E-07	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	1.00E+00			
26FE	59	1.59E-04	4.34E-06	2.55E-06	3.91E-06	0.00E+00	2.85E-06	3.40E-05	9.40E-09	8.00E-09	1.00E+00			
56BA	140	5.35E-03	2.03E-05	1.02E-06	1.33E-06	0.00E+00	8.67E-09	4.18E-05	2.40E-09	2.10E-09	1.00E+00			
43TC	99	5.83E-05	1.25E-07	1.86E-07	5.02E-08	0.00E+00	2.34E-06	1.58E-08	0.00E+00	0.00E+00	1.00E+00			
43I	133	2.05E-06	1.42E-06	2.47E-06	7.53E-07	3.63E-04	4.31E-06	2.22E-06	4.50E-09	3.70E-09	1.00E+00			
44CR	51	1.08E-02	0.00E+00	0.00E+00	2.66E-09	1.59E-09	5.86E-10	6.69E-07	4.20E-09	2.20E-10	1.00E+00			
41RU	103	3.09E-04	1.65E-07	0.00E+00	7.97E-08	0.00E+00	7.06E-07	2.16E-05	4.20E-09	3.63E-09	1.00E+00			
44RU	106	9.70E-04	2.75E-06	0.00E+00	3.48E-07	0.00E+00	5.31E-06	1.78E-04	1.80E-09	1.50E-09	1.00E+00			
30ZN	65	5.18E-05	4.64E-06	1.54E-05	8.96E-06	0.00E+00	1.03E-05	9.70E-06	4.60E-09	4.00E-09	1.00E+00			
40ZR	95	5.63E-03	3.04E-08	9.75E-09	6.60E-09	0.00E+00	1.53E-08	3.08E-05	5.80E-09	5.00E-09	1.00E+00			
72HF	181	2.04E-04	4.70E-08	2.56E-08	2.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00			
59PR	144	4.63E-04	4.88E-07	2.04E-07	2.62E-08	0.00E+00	1.21E-07	0.00E+00	1.65E-04	3.70E-10	1.00E+00			
45RH	106	9.70E-04	2.75E-06	0.00E+00	3.48E-07	0.00E+00	5.31E-06	1.78E-04	1.80E-09	1.50E-09	1.00E+00			

TABLE VI (CONT.)

NUCLIDE	CURIE/5YR	INGESTION DOSE FACTORS										SHORELINE	
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	(MREM/HR)/SKIN	(MREM/HR)/TOTAL BODY	RECON		
38SR 89	6.78E-05	4.40E-04	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	5.24E-03					
38SR 90	8.36E-05	8.30E-03	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	2.33E-04					
58CE 141	5.16E-05	1.33E-08	8.88E-09	1.02E-09	0.00E+00	4.18E-09	0.00E+00	2.54E-05					
58CE 144	5.21E-04	6.96E-07	2.88E-07	3.74E-08	0.00E+00	1.72E-07	0.00E+00	1.75E-04					
45RH 103M	3.09E-04	2.55E-07	0.00E+00	1.09E-07	0.00E+00	8.99E-07	0.00E+00	2.13E-05					
50SN 113	2.81E-04	1.13E-05	3.08E-07	6.48E-07	1.72E-07	0.00E+00	0.00E+00	0.00E+00					
52TE 132	7.03E-06	3.49E-06	2.21E-06	2.08E-06	2.33E-06	2.12E-05	0.00E+00	7.00E-05					
50SN 117M	1.37E-05	3.07E-06	8.07E-08	2.38E-07	4.49E-08	0.00E+00	0.00E+00	0.00E+00					
48E 7	1.76E-04	3.92E-09	8.79E-09	4.35E-09	0.00E+00	9.37E-09	0.00E+00	1.08E-06					
39Y 90	8.36E-05	1.37E-08	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	1.13E-04					
53I 131	1.50E-04	5.85E-06	8.19E-06	4.40E-06	2.39E-03	1.41E-05	0.00E+00	1.52E-05					
55CS 137	1.50E-03	1.12E-04	1.49E-04	5.19E-05	0.00E+00	5.07E-05	1.97E-05	2.12E-06					
41NB 95	8.66E-03	8.22E-09	4.56E-09	2.51E-09	0.00E+00	4.42E-08	0.00E+00	1.95E-05					
55CS 134	3.79E-04	8.37E-05	1.97E-04	9.14E-05	0.00E+00	6.26E-05	2.39E-05	2.45E-06					
27CO 58	2.77E-02	0.00E+00	9.72E-07	2.24E-06	0.00E+00	0.00E+00	0.00E+00	1.34E-05					
27CO 60	7.77E-03	0.00E+00	2.81E-06	6.33E-06	0.00E+00	0.00E+00	0.00E+00	3.66E-05					
57LA 140	3.21E-03	3.48E-09	1.71E-09	4.55E-10	0.00E+00	0.00E+00	0.00E+00	9.82E-05					
51SB 122	5.87E-06	3.21E-07	6.24E-09	9.35E-08	4.22E-09	0.00E+00	0.00E+00	6.91E-05					
47AG 110M	7.10E-03	2.05E-07	1.94E-07	1.18E-07	0.00E+00	3.70E-07	0.00E+00	5.45E-05					
1H 3	6.69E+01	0.00E+00	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07					
6C 14	2.45E-03	4.06E-06	8.12E-07	8.12E-07	8.12E-07	8.12E-07	8.12E-07	8.12E-07					
56BA 140	5.25E-03	2.84E-05	3.48E-08	1.83E-06	0.00E+00	1.18E-08	2.34E-08	4.38E-05					
53I 133	2.05E-06	2.01E-06	3.41E-06	1.04E-06	4.76E-04	5.98E-06	0.00E+00	2.58E-06					
44RU 103	3.08E-04	2.55E-07	0.00E+00	1.09E-07	0.00E+00	8.99E-07	0.00E+00	2.13E-05					
44RU 106	9.70E-04	3.92E-08	0.00E+00	4.94E-07	0.00E+00	7.56E-06	0.00E+00	1.88E-04					
4CZR 95	5.63E-03	4.12E-08	1.30E-08	8.94E-09	0.00E+00	1.91E-08	0.00E+00	3.00E-05					
72HF 181	2.04E-04	6.72E-07	3.63E-08	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
59PR 144	4.63E-04	6.96E-07	2.88E-07	3.74E-08	0.00E+00	1.72E-07	0.00E+00	1.75E-04					
45RH 106	8.70E-04	3.92E-06	0.00E+00	4.94E-07	0.00E+00	7.56E-06	0.00E+00	1.88E-04					

TABLE VII (CONT.)

ISOTOPE	CURIE/ 5YR	* * * CHILD DOSE FACTORS * * *										SHORELINE		
		INGESTION DOSE FACTORS										(MREM/HR)	SKIN	RECON
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI				(MREM/HR)	SKIN	RECON
35SR	6.78E-05	1.32E-03	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	5.11E-05						
38SR	8.36E-05	1.70E-02	0.00E+00	4.31E-03	0.00E+00	0.00E+00	0.00E+00	2.29E-04						
58CE	5.16E-04	3.97E-08	1.98E-08	2.84E-09	0.00E+00	8.68E-09	0.00E+00	2.47E-05						
58CE	5.21E-04	2.08E-06	6.52E-07	1.11E-07	0.00E+00	3.61E-07	0.00E+00	1.70E-04						
45RH	3.09E-04	7.31E-07	0.00E+00	2.81E-07	0.00E+00	1.84E-06	0.00E+00	1.89E-05						
50SN	2.81E-04	3.38E-05	6.98E-07	1.94E-06	5.15E-07	0.00E+00	0.00E+00	0.00E+00						
52TE	7.03E-06	1.01E-05	4.47E-06	5.40E-06	6.51E-06	4.15E-05	0.00E+00	4.50E-05						
50SN	1.37E-05	9.17E-06	1.83E-07	7.06E-07	1.35E-07	0.00E+00	0.00E+00	0.00E+00						
48E	1.76E-04	1.17E-08	1.99E-08	1.30E-08	0.00E+00	1.97E-08	0.00E+00	1.12E-06						
39Y	8.36E-05	4.11E-08	0.00E+00	1.10E-09	0.00E+00	0.00E+00	0.00E+00	1.17E-04						
53I	1.50E-04	1.72E-05	1.73E-05	9.83E-06	5.72E-03	2.84E-05	0.00E+00	1.54E-06						
55CS	1.50E-03	3.27E-04	3.13E-04	4.62E-05	0.00E+00	1.02E-04	3.67E-05	1.96E-06						
41NB	8.66E-03	2.25E-08	8.76E-09	6.26E-09	0.00E+00	8.23E-09	0.00E+00	1.62E-05						
55CS	3.79E-04	2.34E-04	3.84E-04	8.10E-05	0.00E+00	1.19E-04	4.27E-05	2.07E-06						
27CO	2.77E-02	0.00E+00	1.80E-06	5.51E-06	0.00E+00	0.00E+00	0.00E+00	1.05E-05						
27CO	7.77E-03	0.00E+00	5.29E-06	1.56E-05	0.00E+00	0.00E+00	0.00E+00	2.93E-05						
57LA	3.21E-03	1.01E-08	3.53E-09	1.19E-09	0.00E+00	0.00E+00	0.00E+00	9.84E-05						
51SB	5.87E-06	9.60E-07	1.41E-08	2.79E-07	1.27E-08	0.00E+00	3.91E-07	7.55E-05						
47AG	7.10E-03	5.39E-07	3.64E-07	2.91E-07	0.00E+00	6.78E-07	0.00E+00	4.33E-05						
1H	6.69E-01	0.00E+00	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07						
6C	2.45E-03	1.21E-05	2.42E-06	2.42E-06	2.42E-06	2.42E-06	2.42E-06	2.42E-06						
56BA	5.35E-03	8.31E-05	7.28E-08	4.85E-06	0.00E+00	2.37E-08	4.34E-08	4.21E-05						
53I	2.05E-06	5.92E-06	7.32E-06	2.77E-06	1.36E-03	1.22E-05	0.00E+00	2.95E-08						
44RU	3.09E-04	7.31E-07	0.00E+00	2.81E-07	0.00E+00	1.84E-08	0.00E+00	1.89E-05						
44RU	9.70E-04	1.17E-05	0.00E+00	1.46E-06	0.00E+00	1.58E-05	0.00E+00	1.82E-04						
40ZR	5.63E-03	1.16E-07	2.55E-08	2.27E-08	0.00E+00	3.65E-08	0.00E+00	2.66E-05						
72HF	2.04E-04	2.01E-08	8.22E-08	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00						
59PR	4.63E-04	2.08E-06	6.52E-07	1.11E-07	0.00E+00	3.61E-07	0.00E+00	1.70E-04						
45RH	9.70E-04	1.17E-05	0.00E+00	1.46E-06	0.00E+00	1.58E-05	0.00E+00	1.82E-04						



TABLE VII (CONT.)

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

NUCLIDE	CURIE/.SVR	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	
38SR 89	6.78E-05	2.51E-03	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	5.16E-05				
38SR 90	8.36E-05	1.85E-02	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	2.31E-04				
58CE 141	5.16E-05	7.87E-08	4.80E-08	5.65E-09	0.00E+00	1.48E-08	0.00E+00	2.48E-05				
58CE 144	5.21E-04	2.98E-06	1.22E-06	1.67E-07	0.00E+00	4.93E-07	0.00E+00	1.71E-04				
45RH 103M	3.09E-04	1.48E-06	0.00E+00	4.95E-07	0.00E+00	3.08E-06	0.00E+00	1.80E-05				
50SN 113	2.81E-04	6.39E-05	1.65E-06	3.89E-06	1.15E-06	0.00E+00	0.00E+00	0.00E+00				
52TE 132	7.03E-06	2.08E-05	1.03E-05	9.61E-06	1.52E-05	6.44E-05	0.00E+00	3.81E-05				
50SN 117M	1.37E-05	1.90E-05	4.70E-07	1.47E-06	3.28E-07	0.00E+00	0.00E+00	0.00E+00				
48E 7	1.76E-04	2.25E-08	4.70E-08	2.53E-08	0.00E+00	3.34E-08	0.00E+00	1.11E-06				
39Y 90	8.36E-05	8.69E-08	0.00E+00	2.33E-09	0.00E+00	0.00E+00	0.00E+00	1.20E-04				
53I 131	1.50E-04	3.59E-05	4.23E-05	1.86E-05	1.39E-02	4.94E-05	0.00E+00	1.51E-06				
55CS 137	1.50E-03	5.22E-04	6.11E-04	4.33E-05	0.00E+00	1.64E-04	6.64E-05	1.91E-06				
41NB 95	8.66E-03	4.20E-08	1.73E-08	1.00E-08	0.00E+00	1.24E-08	0.00E+00	1.46E-05				
55CS 134	3.79E-04	3.77E-04	7.03E-04	7.10E-05	0.00E+00	1.81E-04	7.42E-05	1.91E-06				
27CO 58	2.77E-02	0.00E+00	3.60E-06	8.98E-06	0.00E+00	0.00E+00	0.00E+00	8.97E-06				
27CO 60	7.77E-03	0.00E+00	1.08E-05	2.55E-05	0.00E+00	0.00E+00	0.00E+00	2.57E-05				
57LA 140	3.21E-03	2.11E-08	8.32E-09	2.14E-09	0.00E+00	0.00E+00	0.00E+00	9.77E-05				
51SB 122	5.87E-06	2.03E-06	3.72E-08	5.92E-07	3.15E-08	0.00E+00	1.06E-06	7.65E-05				
47AG 110M	7.10E-03	9.96E-07	7.27E-07	4.81E-07	0.00E+00	1.04E-06	0.00E+00	3.77E-05				
1H 3	6.69E+01	0.00E+00	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07				
6C 14	2.45E-03	2.37E-05	5.06E-06	5.06E-06	5.06E-06	5.06E-06	5.06E-06	5.06E-06				
56BA 140	5.35E-03	1.71E-04	1.71E-07	8.81E-06	0.00E+00	4.06E-08	1.05E-07	4.20E-05				
53I 133	2.05E-06	1.25E-05	1.82E-05	5.33E-06	3.31E-03	2.14E-05	0.00E+00	3.08E-06				
44RU 103	3.09E-04	1.48E-06	0.00E+00	4.95E-07	0.00E+00	3.08E-06	0.00E+00	1.80E-05				
44RU 106	9.70E-04	2.41E-05	0.00E+00	3.01E-06	0.00E+00	2.85E-05	0.00E+00	1.83E-04				
40ZR 95	5.63E-03	2.06E-07	5.02E-08	3.56E-08	0.00E+00	5.41E-08	0.00E+00	2.50E-05				
72HF 181	2.04E-04	3.92E-08	1.97E-07	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00				
59PR 144	4.63E-04	2.98E-06	1.22E-06	1.67E-07	0.00E+00	4.93E-07	0.00E+00	1.71E-04				
45RH 106	9.70E-04	2.41E-05	0.00E+00	3.01E-06	0.00E+00	2.85E-05	0.00E+00	1.83E-04				

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

## 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		1.37E-03	1.84E-03	1.32E-03	6.73E-05	6.52E-04	2.49E-04	2.18E-02
DRINKING		3.28E-05	2.41E-04	2.46E-04	2.41E-04	2.35E-04	2.35E-04	3.46E-04
SHORELINE	2.09E-05	1.80E-05	1.80E-05	1.80E-05	1.80E-05	1.80E-05	1.80E-05	1.80E-05
SWIMMING	0.00E+00	4.59E-07	4.59E-07	4.59E-07	4.59E-07	4.59E-07	4.59E-07	4.59E-07
BOATING	0.00E+00	2.30E-07	2.30E-07	2.30E-07	2.30E-07	2.30E-07	2.30E-07	2.30E-07
TOTAL	2.09E-05	1.42E-03	2.10E-03	1.59E-03	3.27E-04	9.06E-04	5.03E-04	2.22E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	21.0	7.3	24.00	
DRINKING	730.0	30.8	18.60	
SHORELINE	12.0	7.3	0.00	
SWIMMING	12.0	7.3	0.00	
BOATING	12.0	7.3	0.00	

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

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	SR 90 5%	CS 137 71%	SR 90 1%	I 131 24%	CS 137 68%	CS 137 59%	NB 95 98%	
	CS 137 70%	CS 134 24%	CS 137 65%	H 3 37%	CS 134 22%	CS 134 19%		
	CS 134 13%	H 3 1%	CS 134 27%	C 14 38%	H 3 3%	H 3 10%		
	C 14 9%	C 14 1%	H 3 1%	C 14 3%	C 14 10%			
			C 14 1%					
DRINKING	SR 89 2%	CS 137 2%	SR 90 2%	I 131 3%	H 3 98%	H 3 98%	NB 95 1%	
	SR 90 63%	H 3 96%	CS 137 1%	H 3 96%			CO 58 3%	
	CS 137 12%		H 3 94%				CO 60 2%	
	CS 134 2%						LA 140 2%	
	SB 125 6%						SB 125 6%	
	BA 140 10%						SB 124 2%	
							AG 110M 4%	
							H 3 67%	
							BA 140 2%	
							RU 1 6 1%	
							ZR 95 1%	
							RH 1 6 1%	
SHORELINE	CS 137 5%	CS 137 5%						
	CO 58 3%	CO 58 3%						
	CO 60 55%	CO 60 54%						
	SB 125 24%	SB 125 25%						
	AG 110M 8%	AG 110M 8%						
SWIMMING		NB 95 6%						
		CO 58 24%						
		CO 60 17%						
		LA 140 6%						
		SB 125 13%						
		SB 124 5%						
		AG 110M 17%						
		BA 140 1%						



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

## TEENAGER DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.44E-03	1.89E-03	7.74E-04	6.26E-05	6.66E-04	2.85E-04	1.54E-02
DRINKING		2.70E-05	1.72E-04	1.74E-04	1.72E-04	1.67E-04	1.66E-04	2.41E-04
SHORELINE	1.17E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04
SWIMMING	0.00E+00	2.56E-06	2.56E-06	2.56E-06	2.56E-06	2.56E-06	2.56E-06	2.56E-06
BOATING	0.00E+00	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06	1.28E-06
TOTAL	1.17E-04	1.57E-03	2.17E-03	1.05E-03	3.38E-04	9.37E-04	5.55E-04	1.58E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	16.0	7.3	24.00	
DRINKING	510.0	30.8	18.60	
SHORELINE	67.0	7.3	0.00	
SWIMMING	67.0	7.3	0.00	
BOATING	67.0	7.3	0.00	

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

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	SR 90 4%	CS 137 72%	SR 90 2%	I 131 24%	CS 137 69%	CS 137 63%	NB 95 98%	
	CS 137 71%	CS 134 24%	CS 137 61%	H 3 31%	CS 134 21%	CS 134 19%		
	CS 134 13%	H 3 1%	CS 134 27%	C 14 44%	H 3 2%	H 3 6%		
	C 14 9%	C 14 1%	CO 58 1%	C 14 4%	C 14 9%	C 14 9%		
			H 3 2%					
			C 14 3%					
DRINKING	SR 89 2%	CS 137 2%	SR 90 2%	I 131 4%	CS 137 1%	H 3 98%	NB 95 1%	
	SR 90 59%	CS 134 1%	CS 137 1%	H 3 95%	H 3 98%		CO 58 3%	
	CS 137 14%	H 3 95%	H 3 94%				CO 60 2%	
	CS 134 2%						LA 140 2%	
	SB 125 5%						SB 125 6%	
	BA 140 12%						SB 124 2%	
							AG 110M 3%	
							H 3 67%	
							BA 140 2%	
							RU 1 6 1%	
							ZR 95 1%	
							RH 1 6 1%	
SHORELINE	CS 137 5%	CS 137 5%						
	CO 58 3%	CO 58 3%						
	CO 60 55%	CO 60 54%						
	SB 125 24%	SB 125 25%						
	AG 110M 8%	AG 110M 8%						
SWIMMING		NB 95 6%						
		CO 58 24%						
		CO 60 17%						
		LA 140 6%						
		SB 125 13%						
		SB 124 5%						
		AG 110M 17%						

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

## CHILD DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.78E-03	1.69E-03	3.52E-04	6.77E-05	5.80E-04	2.40E-04	5.57E-03
DRINKING		6.13E-05	3.30E-04	3.32E-04	3.32E-04	3.19E-04	3.17E-04	3.84E-04
SHORELINE	2.44E-05	2.10E-05	2.10E-05	2.10E-05	2.10E-05	2.10E-05	2.10E-05	2.10E-05
SWIMMING	0.00E+00	5.36E-07	5.36E-07	5.36E-07	5.36E-07	5.36E-07	5.36E-07	5.36E-07
BOATING	0.00E+00	2.68E-07	2.68E-07	2.68E-07	2.68E-07	2.68E-07	2.68E-07	2.68E-07
TOTAL	2.44E-05	1.86E-03	2.04E-03	7.06E-04	4.22E-04	9.21E-04	5.79E-04	5.97E-03

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	6.9	7.3	24.00	
DRINKING	510.0	30.8	18.60	
SHORELINE	14.0	7.3	0.00	
SWIMMING	14.0	7.3	0.00	
BOATING	14.0	7.3	0.00	

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

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		SR 90 3% CS 137 72% CS 134 13% C 14 10%	CS 137 73% CS 134 22% C 14 2%	SR 90 4% CS 137 51% CS 134 22% CO 58 2% CO 60 2% H 3 4% C 14 10%	I 131 23% H 3 23% C 14 53%	CS 137 69% CS 134 20% H 3 2% C 14 6%	CS 137 60% CS 134 17% H 3 6% C 14 14%	NB 95 97%
DRINKING		SR 89 3% SR 90 53% CS 137 18% CS 134 3% SB 125 2% C 14 1% BA 140 16%	CS 137 3% CS 134 1% H 3 94%	SR 90 2% CO 58 1% H 3 94%	I 131 5% H 3 94%	CS 137 1% H 3 98%	H 3 99%	CO 58 1% CO 60 1% LA 140 1% SB 125 3% SB 124 1% AG 110M 1% H 3 81% BA 140 1% RU 1 6 1% RH 1 6 1%
SHORELINE	CS 137 5% CO 58 3% CO 60 55% SB 125 24% AG 110M 8%	CS 137 5% CO 58 3% CO 60 54% SB 125 25% AG 110M 8%						
SWIMMING		NB 95 6% CO 58 24% CO 60 17% LA 140 6% SB 125 13% SB 124 5% AG 110M 17% BA 140 1%						

VII-47

\* \* \* \* 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		5.56E-05	3.29E-04	3.23E-04	3.37E-04	3.14E-04	3.11E-04	3.52E-04
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	5.56E-05	3.29E-04	3.23E-04	3.37E-04	3.14E-04	3.11E-04	3.52E-04

SHOREWIDTH FACTOR=0.2

TIME(HR)

DILUTION

USAGE (KG/VR, HR/VR)

24.00  
18.607.3  
30.60.0  
330.0

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

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING		SR 89 4%	CS 137 4%	SR 90 1%	I 131 8%	CS 137 1%	3 99%	CO 58 1%
		SR 90 41%	CS 134 1%	CO 58 1%	I 3 91%	3 98%	H 3	SB 125 2%
		CS 137 21%	H 3 93%	H 3 95%	H 3	1	3	SB 124 1%
		CS 134 3%						AG 110M 1%
		SB 125 1%						H 3 87%
		C 14 1%						
		BA 140 23%						

LOCATION IS SITE DISCHG.

## A D U L T D O S E S

\* \* \* \* \* SELECTED LOCATION \* \* \*

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.00E-02	1.34E-02	9.64E-03	4.91E-04	4.76E-03	1.82E-03	1.59E-01
DRINKING		1.01E-03	7.43E-03	7.58E-03	7.44E-03	7.24E-03	7.24E-03	1.07E-02
SHORELINE	1.52E-04	1.31E-04	1.31E-04	1.31E-04	1.31E-04	1.31E-04	1.31E-04	1.31E-04
SWIMMING	0.00E+00	3.35E-06	3.35E-06	3.35E-06	3.35E-06	3.35E-06	3.35E-06	3.35E-06
BOATING	0.00E+00	1.68E-06	1.68E-06	1.68E-06	1.68E-06	1.68E-06	1.68E-06	1.68E-06
TOTAL	1.52E-04	1.11E-02	2.10E-02	1.74E-02	8.07E-03	1.21E-02	9.19E-03	1.70E-01

SHOREWIDTH FACTOR=0.2

TIME(HR)

DILUTION

USAGE (KG/VR,HR/VR)

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		SR 90 5% CS 137 70% CS 134 13% C 14 9%	CS 137 71% CS 134 24% H 3 1% C 14 1%	SR 90 1% CS 137 65% CS 134 27% H 3 1% C 14 1%	I 131 24% H 3 37% C 14 38%	CS 137 68% CS 134 22% H 3 3% C 14 3%	CS 137 59% CS 134 19% H 3 10% C 14 10%	NB 95 98%
DRINKING		SR 89 2% SR 90 63% CS 137 12% CS 134 2% SB 125 6% BA 140 10%	CS 137 2% H 3 96% CS 137 2% H 3 96%	SR 90 2% CS 137 1% H 3 94%	I 131 3% H 3 96%	H 3 98% CS 137 68% CS 134 22% H 3 3% C 14 3%	H 3 98% CS 137 59% CS 134 19% H 3 10% C 14 10%	NB 95 1% CO 58 3% CO 60 2% LA 140 2% SB 125 6% SB 124 2% AG 110M 4% H 3 66% BA 140 2% RU 1 6 1% ZR 95 1% RH 1 6 1%
SHORELINE	CS 137 5% CO 58 3% CO 60 55% SB 125 24% AG 110M 8%	CS 137 5% CO 58 3% CO 60 54% SB 125 25% AG 110M 8%						
SWIMMING		NB 95 6% CO 58 24% CO 60 17% LA 140 6% SB 125 13% SB 124 5% AG 110M 17% BA 140 1%						

\* \* \* SELECTED LOCATION \* \* \*

LOCATION IS SITE DISCHG.

## TEENAGER DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.05E-02	1.38E-02	5.65E-03	4.57E-04	4.86E-03	2.08E-03	1.13E-01
DRINKING		8.32E-04	5.30E-03	5.35E-03	5.29E-03	5.13E-03	5.11E-03	7.45E-03
SHORELINE	8.51E-04	7.32E-04	7.32E-04	7.32E-04	7.32E-04	7.32E-04	7.32E-04	7.32E-04
SWIMMING	0.00E+00	1.87E-05	1.87E-05	1.87E-05	1.87E-05	1.87E-05	1.87E-05	1.87E-05
BOATING	0.00E+00	9.36E-06	9.36E-06	9.36E-06	9.36E-06	9.36E-06	9.36E-06	9.36E-06
TOTAL	8.51E-04	1.21E-02	1.99E-02	1.18E-02	6.51E-03	1.08E-02	7.95E-03	1.21E-01

	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	SR 90 4%	CS 137 72%	SR 90 2%	I 131 24%	CS 137 69%	CS 137 63%	NB 95 98%	
	CS 137 71%	CS 134 24%	CS 137 61%	H 3 31%	CS 134 21%	CS 134 19%		
	CS 134 13%	H 3 1%	CS 134 27%	C 14 44%	H 3 2%	H 3 6%		
	C 14 9%	C 14 1%	CO 58 1%		C 14 4%	C 14 9%		
			H 3 2%					
			C 14 3%					
DRINKING	SR 89 2%	CS 137 2%	SR 90 2%	I 131 4%	CS 137 1%	H 3 98%	NB 95 1%	
	SR 90 59%	CS 134 1%	CS 137 1%	H 3 95%	H 3 98%		CO 58 3%	
	CS 137 14%	H 3 95%	H 3 94%				CO 60 2%	
	CS 134 2%						LA 140 2%	
	SB 125 5%						SB 125 6%	
	BA 140 12%						SB 124 2%	
							AG 110M 3%	
							H 3 67%	
							BA 140 2%	
							RU 1 6 1%	
							ZR 95 1%	
							RH 1 6 1%	
SHORELINE	CS 137 5%	CS 137 5%						
	CO 58 3%	CO 58 3%						
	CO 60 55%	CO 60 54%						
	SB 125 24%	SB 125 25%						
	AG 110M 8%	AG 110M 8%						
SWIMMING		NB 95 6%						
		CO 58 24%						
		CO 60 17%						
		LA 140 6%						
		SB 125 13%						
		SB 124 5%						
		AG 110M 17%						

\* \* \* SELECTED LOCATION \* \* \*

LOCATION IS SITE DISCHG.

## CHILD DOSES

DOSE (MREM PER .5YR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.30E-02	1.23E-02	2.57E-03	4.94E-04	4.23E-03	1.76E-03	4.06E-02
DRINKING		1.89E-03	1.02E-02	1.02E-02	1.03E-02	9.84E-03	9.76E-03	1.19E-02
SHORELINE	1.78E-04	1.53E-04	1.53E-04	1.53E-04	1.53E-04	1.53E-04	1.53E-04	1.53E-04
SWIMMING	0.00E+00	3.91E-06	3.91E-06	3.91E-06	3.91E-06	3.91E-06	3.91E-06	3.91E-06
BOATING	0.00E+00	1.96E-06	1.96E-06	1.96E-06	1.96E-06	1.96E-06	1.96E-06	1.96E-06
TOTAL	1.78E-04	1.50E-02	2.27E-02	1.30E-02	1.09E-02	1.42E-02	1.17E-02	5.27E-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	SR 90 3%	CS 137 73%	SR 90 4%	I 131 23%	CS 137 69%	CS 137 60%	NB 95 97%	
	CS 137 72%	CS 134 22%	CS 137 51%	H 3 23%	CS 134 20%	CS 134 17%		
	CS 134 13%	C 14 2%	CS 134 22%	C 14 53%	H 3 2%	H 3 6%		
	C 14 10%		CO 58 2%		C 14 6%	C 14 14%		
			CO 60 2%					
			H 3 4%					
			C 14 10%					
DRINKING	SR 89 3%	CS 137 3%	SR 90 2%	I 131 5%	CS 137 1%	H 3 99%	CO 58 1%	
	SR 90 53%	CS 134 1%	CO 58 1%	H 3 94%	H 3 98%		CO 60 1%	
	CS 137 18%	H 3 94%	H 3 94%				LA 140 1%	
	CS 134 3%						SB 125 3%	
	SB 125 2%						SB 124 1%	
	C 14 1%						AG 110M 1%	
	BA 140 16%						H 3 81%	
							BA 140 1%	
							RU 1 6 1%	
							RH 1 6 1%	
SHORELINE	CS 137 5%	CS 137 5%						
	CO 58 3%	CO 58 3%						
	CO 60 55%	CO 60 54%						
	SB 125 24%	SB 125 25%						
	AG 110M 8%	AG 110M 8%						
SWIMMING		NB 95 6%						
		CO 58 24%						
		CO 60 17%						
		LA 140 6%						
		SB 125 13%						
		SB 124 5%						
		AG 110M 17%						
		BA 140 1%						

\* \* \* SELECTED LOCATION \* \* \*

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		1.72E-03	1.01E-02	9.96E-03	1.04E-02	9.67E-03	9.57E-03	1.09E-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	1.72E-03	1.01E-02	9.96E-03	1.04E-02	9.67E-03	9.57E-03	1.09E-02

	USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	0.0	1.0	24.00	
DRINKING	330.0	1.0	12.00	

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

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING		SR 89 4%	CS 137 4%	SR 90 1%	I 131 8%	CS 137 1%	H 3 99%	CO 58 1%
		SR 90 41%	CS 134 1%	CO 58 1%	H 3 91%	H 3 98%		LA 140 1%
		CS 137 20%	H 3 93%	H 3 95%				SB 125 2%
		CS 134 3%						SB 124 1%
		SB 125 1%						AG 110M 1%
		C 14 1%						H 3 87%
		BA 140 23%						



\* \* \* FISH CONSUMPTION POPULATION DOSES \* \* \*

MAN-REM

## SPORTFISH HARVEST

-----DOSE (MAN-REM)-----									
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	5.81E+04	3.72E-03	4.99E-03	3.58E-03	1.65E-04	1.77E-03	6.76E-04	5.26E-02
FISH	TEENAGER	9.29E+03	8.20E-04	1.08E-03	4.40E-04	3.22E-05	3.79E-04	1.62E-04	7.82E-03
FISH	CHILD	5.61E+03	1.42E-03	1.35E-03	2.80E-04	4.91E-05	4.63E-04	1.92E-04	3.96E-03
FISH	TOTAL	7.30E+04	5.96E-03	7.41E-03	4.30E-03	2.46E-04	2.61E-03	1.03E-03	6.44E-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	SR	90	5%	CS	137	71%	SR	90	1%	I	131	15%	CS	137	68%	CS	137	59%	NB	95	98%
	CS	137	70%	CS	134	24%	CS	137	65%	H	3	41%	CS	134	22%	CS	134	19%			
	CS	134	13%	H	3	1%	CS	134	27%	C	14	42%	H	3	3%	H	3	10%			
	C	14	9%	C	14	1%	H	3	1%				C	14	3%	C	14	10%			
							C	14	1%												
TEENAGER	SR	90	4%	CS	137	72%	SR	90	2%	I	131	15%	CS	137	69%	CS	137	63%	NB	95	98%
	CS	137	71%	CS	134	24%	CS	137	61%	H	3	34%	CS	134	21%	CS	134	19%			
	CS	134	13%	H	3	1%	CS	134	27%	C	14	49%	H	3	2%	H	3	6%			
	C	14	9%	C	14	1%	CO	58	1%				C	14	4%	C	14	9%			
							H	3	2%												
CHILD	SR	90	3%	CS	137	73%	SR	90	4%	I	131	15%	CS	137	69%	CS	137	60%	NB	95	97%
	CS	137	72%	CS	134	22%	CS	137	52%	H	3	26%	CS	134	20%	CS	134	17%			
	CS	134	13%	C	14	2%	CS	134	22%	C	14	58%	H	3	2%	H	3	6%			
	C	14	10%				CO	58	2%				C	14	6%	C	14	14%			
							CO	60	2%												
							H	3	4%												
							C	14	10%												

\* \* \* 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	3.46E+06	3.67E-04	4.93E-04	3.54E-04	1.57E-05	1.75E-04	6.68E-05	4.91E-03
FISH	TEENAGER	5.54E+05	8.10E-05	1.06E-04	4.35E-05	3.07E-06	3.75E-05	1.60E-05	7.29E-04
FISH	CHILD	3.35E+05	1.40E-04	1.33E-04	2.77E-05	4.68E-06	4.57E-05	1.90E-05	3.69E-04
FISH	TOTAL	4.35E+06	5.89E-04	7.32E-04	4.25E-04	2.35E-05	2.58E-04	1.02E-04	6.00E-03

DILUTION CATCH TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 2.40E+02 HR POPULATION=7.60E+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	SR	90	5%	CS	137	71%	SR	90	1%	I	131	12%	CS	137	68%	CS	137	59%	NB	95	98%
	CS	137	70%	CS	134	24%	CS	137	65%	H	3	43%	CS	134	22%	CS	134	19%			
	CS	134	13%	H	3	1%	CS	134	27%	C	14	43%	H	3	3%	H	3	10%			
	C	14	9%	C	14	1%	H	3	1%				C	14	3%	C	14	10%			
							C	14	1%												
TEENAGER	SR	90	4%	CS	137	72%	SR	90	2%	I	131	12%	CS	137	70%	CS	137	63%	NB	95	98%
	CS	137	71%	CS	134	23%	CS	137	61%	H	3	35%	CS	134	21%	CS	134	19%			
	CS	134	13%	H	3	1%	CS	134	27%	C	14	51%	H	3	2%	H	3	6%			
	C	14	9%	C	14	1%	CO	58	1%				C	14	4%	C	14	9%			
							H	3	2%												
						C	14	3%													
CHILD	SR	90	3%	CS	137	73%	SR	90	4%	I	131	12%	CS	137	69%	CS	137	60%	NB	95	97%
	CS	137	72%	CS	134	22%	CS	137	52%	H	3	27%	CS	134	20%	CS	134	17%			
	CS	134	13%	C	14	2%	CS	134	22%	C	14	60%	H	3	2%	H	3	6%			
	C	14	10%				CO	58	2%				C	14	6%	C	14	14%			
							CO	60	2%												
						H	3	4%													
						C	14	10%													

## NEPA DOSES

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

-----DOSE (MAN-REM)-----									
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	ADULT	5.81E+04	3.71E-03	4.98E-03	3.58E-03	1.59E-04	1.77E-03	6.76E-04	4.96E-02
FISH	TEENAGER	9.29E+03	8.19E-04	1.08E-03	4.40E-04	3.10E-05	3.79E-04	1.62E-04	7.37E-03
FISH	CHILD	5.61E+03	1.42E-03	1.35E-03	2.80E-04	4.74E-05	4.62E-04	1.92E-04	3.73E-03

\* \* \* POPULATION WATER CONSUMPTION DOSES \* \* \*

-----DOSE (MAN-REM)-----										
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	
DRINKING	ADULT	1.29E+08	5.79E-03	4.27E-02	4.36E-02	4.26E-02	4.16E-02	4.16E-02	6.08E-02	
DRINKING	TEENAGER	1.93E+07	1.01E-03	6.50E-03	6.56E-03	6.47E-03	6.29E-03	6.27E-03	9.06E-03	
DRINKING	CHILD	2.75E+07	3.29E-03	1.78E-02	1.79E-02	1.79E-02	1.72E-02	1.71E-02	2.07E-02	
DRINKING	TOTAL	1.76E+08	1.01E-02	6.70E-02	6.80E-02	6.70E-02	6.51E-02	6.49E-02	9.06E-02	

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

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

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

AGE GROUP	BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI	
ADULT	SR 89	2%	CS 137	2%	SR 90	2%	I 131	3%	H 3	98%	H 3	98%	NB 95	1%
	SR 90	63%	H 3	95%	CS 137	1%	H 3	96%					CO 58	3%
	CS 137	12%			H 3	94%							CO 60	3%
	CS 134	2%											LA 140	1%
	SB 125	6%											SB 125	6%
													SB 124	2%
	BA 140	10%											AG 110M	4%
TEENAGER	SR 89	2%	CS 137	2%	SR 90	2%	I 131	4%	CS 137	1%	H 3	98%	NB 95	1%
	SR 90	59%	CS 134	1%	CS 137	1%	H 3	95%	H 3	98%			CO 58	3%
	CS 137	14%	H 3	95%	H 3	94%							CO 60	2%
	CS 134	2%											LA 140	1%
	SB 125	5%											SB 125	6%
													SB 124	2%
	BA 140	12%											AG 110M	3%
CHILD	SR 89	3%	CS 137	3%	SR 90	2%	I 131	5%	CS 137	1%	H 3	99%	CO 58	1%
	SR 90	53%	CS 134	1%	CO 58	1%	H 3	94%	H 3	98%			CO 60	1%
	CS 137	18%	H 3	94%	H 3	94%							LA 140	1%
	CS 134	3%											SB 125	3%
	SB 125	2%											SB 124	1%
	C 14	1%											AG 110M	1%
													H 3	81%
	BA 140	15%											BA 140	1%

TABLE -E-4

\* \* \* POPULATION WATER CONSUMPTION DOSES \* \* \*

-----DOSE (MAN-REM)-----																
PATHWAY	AGE GROUP	USAGE	BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI	
DRINKING	ADULT	2.12E+07	9.38E-04		6.91E-03		7.05E-03		6.90E-03		6.74E-03		6.73E-03		9.85E-03	
DRINKING	TEENAGER	3.17E+06	1.64E-04		1.05E-03		1.06E-03		1.05E-03		1.02E-03		1.01E-03		1.47E-03	
DRINKING	CHILD	4.52E+06	5.33E-04		2.88E-03		2.90E-03		2.89E-03		2.79E-03		2.76E-03		3.34E-03	
DRINKING	TOTAL	2.89E+07	1.63E-03		1.08E-02		1.10E-02		1.08E-02		1.05E-02		1.05E-02		1.47E-02	
POPULATION=8.70E+04 DILUTION=3.13E+01 TRANSIT TIME=3.10E+01 HR (INCLUDING 24 HR FOR TREATMENT FACILITY)																
AVERAGE INDIVIDUAL CONSUMPTION (L/YR) ADULT=3.70E+02 TEEN=2.60E+02 CHILD=2.60E+02																
* * * ISOTOPE CONTRIBUTION * * *																
AGE GROUP	BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI			
ADULT	SR 89	2%	CS 137	2%	SR 90	2%	I 131	3%	H 3	98%	H 3	98%	NB 95	1%		
	SR 90	63%	H 3	96%	CS 137	1%	H 3	96%					CO 58	3%		
	CS 137	12%			H 3	94%							CO 60	3%		
	CS 134	2%											LA 140	1%		
	SB 125	6%											SB 125	6%		
													SB 124	2%		
	BA 140	10%											AG 110M	4%		
TEENAGER	SR 89	2%	CS 137	2%	SR 90	2%	I 131	4%	CS 137	1%	H 3	98%	NB 95	1%		
	SR 90	59%	CS 134	1%	CS 137	1%	H 3	95%	H 3	98%			CO 58	3%		
	CS 137	14%	H 3	95%	H 3	94%							CO 60	2%		
	CS 134	2%											LA 140	1%		
	SB 125	5%											SB 125	6%		
													SB 124	2%		
	BA 140	12%											AG 110M	3%		
CHILD	SR 89	3%	CS 137	3%	SR 90	2%	I 131	5%	CS 137	1%	H 3	99%	CO 58	1%		
	SR 90	53%	CS 134	1%	CO 58	1%	H 3	94%	H 3	98%			CO 60	1%		
	CS 137	18%	H 3	94%	H 3	94%							LA 140	1%		
	CS 134	3%											SB 125	3%		
	SB 125	2%											SB 124	1%		
	C 14	1%											AG 110M	1%		
	BA 140	15%											H 3	61%		
												BA 140	1%			

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

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	CUMUL TOTAL	2.05E+08	1.17E-02	7.78E-02	7.90E-02	7.78E-02	7.57E-02	7.54E-02	1.05E-01
HYDROSPHERE TRITIUM DOSE									
PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
WATER	TOTAL	2.20E+00	5.56E-10	5.56E-10	5.56E-10	5.56E-10	5.56E-10	5.56E-10	5.56E-10

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

## DOSE (MAN-REM)

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SHORELINE	TOTAL POPUL	4.10E+07	7.13E-02	6.14E-02	6.14E-02

LOCATION- DOWN STREAM

DILUTION=0.73E+01

TRANSIT TIME=0.67E+00 HR

SWF=0.2

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

AGE GROUP	SKIN	TOTAL BODY
ADULT		
	CS 137 5%	CS 137 5%
	CO 58 3%	CO 58 3%
	CO 60 55%	CO 60 54%
	SB 125 24%	SB 125 25%
	AG 110M 8%	AG 110M 8%

## DOSE (MAN-REM)

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SWIMMING	TOTAL POPUL	4.10E+07	0.00E+00	1.57E-03	1.57E-03

LOCATION- DOWN STREAM

DILUTION=0.73E+01

TRANSIT TIME=0.67E+00 HR

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

AGE GROUP	SKIN	TOTAL BODY
ADULT		
		NB 95 6%
		CO 58 24%
		CO 60 17%
		LA 140 6%
		SB 125 13%
		SB 124 5%
		AG 110M 17%
		BA 140 1%
		ZR 95 4%

## DOSE (MAN-REM)

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
BOATING	TOTAL POPUL	4.10E+07	0.00E+00	7.84E-04	7.84E-04

LOCATION- DOWN STREAM

DILUTION=0.73E+01

TRANSIT TIME=0.67E+00 HR

\* \* \* DOSE TO BIOTA \* \* \*

MRADS PER .5YR

DILUTION=	1.00E+00	TRANSIT TIME=	0.00E+00 HR
	INTERNAL	EXTERNAL	TOTAL
FISH	6.76E-01	4.81E-01	1.16E+00
INVERTEBRATE	3.21E-01	9.60E-01	1.28E+00
ALGAE	9.17E-01	2.45E-03	9.20E-01
MUSKRAT	5.63E-01	3.20E-01	8.84E-01
RACCOON	4.87E-02	2.39E-01	2.88E-01
HERON	9.69E-01	3.20E-01	1.29E+00
DUCK	5.32E-01	4.80E-01	1.01E+00

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

PATHWAY BODY

FISH CS 137 3%  
 NB 95 91%  
 H 3 1%  
 C 14 2%

INVERTEBRATE CE 144 5%  
 CO 58 4%  
 MN 54 25%  
 CO 60 3%  
 LA 140 19%  
 AG 110M 10%  
 H 3 2%  
 C 14 9%  
 BA 140 2%  
 RU 1 6 3%  
 PR 144 4%  
 RH 1 6 3%

ALGAE CE 144 7%  
 Y 9 0%  
 NB 95 1%  
 CO 58 1%  
 MN 54 1%  
 CO 60 1%  
 LA 140 33%  
 SB 125 16%  
 SB 124 6%  
 C 14 1%  
 BA 140 2%  
 RU 1 6 7%  
 ZR 95 4%  
 PR 144 8%

MUSKRAT SR 90 49%  
 CS 137 20%  
 CS 134 6%  
 CO 58 2%  
 MN 54 1%  
 CO 60 1%  
 SB 125 6%  
 SB 124 1%  
 H 3 2%  
 C 14 4%  
 BA 140 1%  
 ZN 65 1%

RACCOON SR 90 18%  
 CS 137 8%  
 CS 134 2%

## TABLE VII (CONT.)

CO	58	5%
MN	54	29%
CO	60	4%
H	3	4%
C	14	15%
FE	55	4%
FE	59	1%
BA	140	1%
ZN	65	1%

## HERON

SR	90	2%
CS	137	68%
CS	134	23%
H	3	1%
C	14	3%

## DUCK

SR	90	52%
CS	137	19%
CS	134	5%
CO	58	1%
CO	60	1%
SB	125	6%
SB	124	1%
H	3	2%
C	14	4%
BA	140	1%
ZN	65	1%