

RIVER BEND STATION - UNIT 1
SEMI-ANNUAL RADIOACTIVE
EFFLUENT RELEASE REPORT

REPORT PERIOD: JULY 1, 1991 THROUGH DECEMBER 31, 1991

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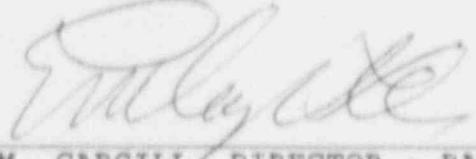

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TABLE OF CONTENTS

	PAGE
I. INTRODUCTION	1
II. SUPPLEMENTAL INFORMATION	
A. REGULATORY LIMITS	2
B. MAXIMUM PERMISSIBLE CONCENTRATIONS	6
C. AVERAGE ENERGY	6
D. MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY	6
E. BATCH RELEASES	8
F. ABNORMAL RELEASES	8
G. ESTIMATE OF TOTAL ERROR	9
III. GASEOUS EFFLUENTS SUMMARY INFORMATION	10
IV. LIQUID EFFLUENTS SUMMARY INFORMATION	10
V. SOLID WASTE	10
VI. RADIOLOGICAL IMPACT ON MAN	10
VII. METEROLOGICAL DATA	10
VIII. RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION OPERABILITY	10
IX. RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION OPERABILITY	11
X. LIQUID HOLD UP TANKS	11
XI. RADIOLOGICAL ENVIRONMENTAL MONITORING	11
XII. LAND USE CENSUS	11
XIII. OFFSITE DOSE CALCULATION MANUAL (ODCM)	11
XIV. MAJOR CHANGES TO RADIOACTIVE LIQUID, GASEOUS AND SOLID WASTE TREATMENT SYSTEMS	11
XV. PROCESS CONTROL PROGRAM (PCP)	11

	PAGE
XVI. TABLES	
TABLE 1 RADIOACTIV" GASEOUS WASTE SAMPLING AND ANALYSIS PROGRAM	12
TABLE 2 RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM	13
TABLE 3 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES	14
TABLE 4 GASEOUS EFFLUENTS - CONDITIONALLY ELEVATED RELEASES	16
TABLE 5 GASEOUS EFFLUENTS - GROUND LEVEL RELEASES	19
TABLE 6 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES	22
TABLE 7 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS	27
TABLE 8 MAXIMUM INDIVIDUAL DOSES DUE TO NOBLE GASEOUS RELEASES	31
TABLE 9 MAXIMUM INDIVIDUAL DOSES (GASEOUS) DOSES DUE TO GASEOUS RELEASES	32
TABLE 10 MAXIMUM INDIVIDUAL DOSES (LIQUID)	33
TABLE 11 SEMIANNUAL POPULATION DOSE (GASEOUS) RELEASES	34
TABLE 12 SEMIANNUAL POPULATION DOSE (LIQUID) RELEASES	36
TABLE 13 ASSUMPTIONS/PARAMETERS FOR DOSES TO MEMBER OF THE PUBLIC INSIDE SITE BOUNDARY	38
TABLE 14 DOSES TO MEMBERS OF THE PUBLIC ON SITE FROM GASEOUS RELEASES	39
TABLE 15 METEROLOGICAL DATA - JOINT FREQUENCY TABLES	41
TABLE 16 ATMOSPHERIC DISPERSION FACTORS (X/Q FACTORS) (D/Q FACTORS)	106

SEMIANNUAL RADIOACTIVE EFFLUENT
RELEASE REPORT

FACILITY: River Bend Station, Unit 1

LICENSEE: Gulf States Utilities

REPORT PERIOD: July 1, 1991 Through December 31, 1991

I. INTRODUCTION

Enclosed is the Semiannual Radioactive Effluent Release Report for the period of July 1, 1991 through December 31, 1991. This report is submitted in accordance with Technical Specification 6.9.1.8 of Appendix A to River Bend Station (RBS) License Number NPF-47.

Gaseous release totals were a maximum of 5.74% of the quarterly technical specification limits. Liquid releases were a maximum of 3.45% of their quarterly technical specification limits.

II. SUPPLEMENTAL INFORMATION

A. Regulatory Limits

1. 10CFR20 Limits

a. Fission and Activation Gases

In accordance with Technical Specification 3.11.2.1, the dose rate due to noble gases released in gaseous effluents from the site to areas at and beyond the **SITE BOUNDARY** shall be limited to less than or equal to 500 millirems/year (mrems/yr) to the total body and less than or equal to 3000 mrems/yr to the skin:

$$DR_{TB} = \text{Dose rate to the total body in mrems/yr}$$

$$= 3.15E+07 \sum_{i=1}^n K_i (\bar{X}/\bar{Q})_i Q_i \leq 500 \text{ mrems/yr}$$

and

$$DR_{SKIN} = \text{Dose rate to the skin in mrems/yr}$$

$$= 3.15E+07 \sum_{i=1}^n (L_i + 1.1M_i) (\bar{X}/\bar{Q})_i Q_i \leq 3000 \text{ mrems/yr}$$

(above terms defined in RBS ODCM)

b. Radioiodines and Particulates

In accordance with Technical Specification 3.11.2.1, the dose rate due to iodine-131, iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than 8 days released in gaseous effluents from the site to areas at and beyond the **SITE BOUNDARY** shall be limited to less than or equal to 1500 mrems/yr to any organ:

$$DR_{IAPD} = \text{Dose rate to the organ } r \text{ for the age group of interest from iodines, tritium, and 8 day particulates via the inhalation pathway in mrems/yr}$$

$$= \sum_{i=1}^n P_i (\bar{X}/\bar{Q})_D Q_i \leq 1500 \text{ mrems/yr}$$

(above terms defined in RBS ODCM)

c. Liquid Effluents

In accordance with Technical Specification 3.11.1.1, the concentration of radioactive material released in liquid effluents to **UNRESTRICTED AREAS** shall be limited to the concentrations specified in 10CFR20, Appendix B, Table II, Column 2 for radionuclides other than dissolved and entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2.0E-04 microcuries/ml total activity.

2. 10CFR50, Appendix I Limits

a. Fission and Activation Gases

In accordance with Technical Specification 3.11.2.2, the air dose due to noble gases released in gaseous effluents to areas at or beyond the **SITE BOUNDARY** shall be limited to:

$D_{\text{Gamma-Air}}$ = The gamma air dose from radioactive noble gases in millrad (mrad)

$$= \sum_{i=1}^n M_i (\bar{X}/Q) Q_i \leq 5 \text{ mrads/qtr}$$
$$\leq 10 \text{ mrads/yr}$$

$D_{\text{Beta-Air}}$ = Beta air dose from radioactive noble gases in mrad

$$= \sum_{i=1}^n N_i (\bar{X}/Q) Q_i \leq 10 \text{ mrads/qtr}$$
$$\leq 20 \text{ mrads/yr}$$

(above terms defined in RBS ODCM)

b. Radioiodines and Particulates

In accordance with Technical Specification 3.11.2.3, the dose to a **MEMBER OF THE PUBLIC** from iodine-131, iodine-133, tritium and all radionuclides in particulate form with half-lives greater than 8 days, in gaseous effluents releases to areas at and beyond the **SITE BOUNDARY** shall be limited to:

D_{IAEDP} = Dose in mrem to the organ (r) of a specified age group from radioiodines, tritium, and 8 day particulates via the pathway of interest

$$= 3.17E-08 \sum_{i=1}^n R_i \overline{(X/Q)}_D Q_i$$

and/or

$$= 3.17E-08 \sum_{i=1}^n R_i \overline{(D/Q)} Q_i$$

and

D_r = Dose in mrem to the organ (r) of a specified age group from radioiodines, tritium, and 8 day particulates from all pathways

$$= \sum_{z=1}^n D_{IAEDP_r} \leq 7.5 \text{ mrem/qtr}$$
$$\leq 15 \text{ mrem/yr}$$

(above terms defined RBS ODCM)

c. Liquid Effluents

In accordance with Technical Specification 3.11.1.2, the dose or dose commitment to a **MEMBER OF THE PUBLIC** from radioactive materials in liquid effluents released to **UNRESTRICTED AREAS** shall be limited to:

$$D_{ir} = A_{ir} \Delta t Q_i$$
$$= \frac{(DF) D_w}{}$$

$$D_{TOTAL,r} = \sum_{i=1}^n D_{ir}$$

$D_{TOTAL,r}$ = Total dose commitment to the organ (r) due to all releases during the desired time interval in mrem

and	D_{TOTAL}		s	1.5 mrem/qtr
	Total Body		s	3 mrem/yr
	D_{TOTAL}		s	5 mrem/qtr
	Any Organ		s	10 mrem/yr

(above terms defined in RBS ODCM)

3. 40CFR190 Limits

In accordance with Technical Specification 3.11.4, the annual (calendar year) dose or dose commitment to any **MEMBER OF THE PUBLIC**, due to releases of radioactivity and to radiation from uranium fuel cycle sources, shall be limited to:

- s 25 mrems to the total body or any organ (except the thyroid)
- s 75 mrems to the thyroid

4. Miscellaneous Limits

a. Ventilation Exhaust Treatment System

In accordance with Technica's Specification 3.11.2.5, the **VENTILATION EXHAUST TREATMENT SYSTEM** shall be used to reduce radioactive materials in gaseous waste prior to their discharge when the projected doses, due to gaseous effluent releases to areas at and beyond the **SITE BOUNDARY** would exceed 0.3 mrem to any organ in a 31 day period.

b. Liquid Radwaste Treatment System

In accordance with Technical Specification 3.11.1.3, the liquid radwaste treatment system shall be used to reduce the radioactive materials in liquid wastes prior to their discharge when the projected doses, due to the liquid effluent, to **UNRESTRICTED AREAS** would exceed 0.06 mrem to the total body or 0.2 mrem to any organ in a 31 day period.

B. Maximum Permissible Concentrations

1. Gaseous Releases

The RBS Radiological Effluents Technical Specifications (RETS) for gaseous releases are based on the dose rate restrictions of 10CFR20, rather than the Maximum Permissible Concentrations (MPC) listed in 10CFR20 Appendix B, Table II, Column I.

2. Liquid Releases

The Maximum Permissible Concentration of radioactive materials in liquid effluents is limited by 10CFR20, Appendix B, Table II, Column 2. The MPC chosen is the most conservative value (i.e., the lowest) of either the soluble or insoluble MPC for each radionuclide.

C. Average Energy

Period	E-Bar (MeV/dis)
01/01/91 - 07/01/92	1.60
07/02/92 - 12/31/92	1.48

D. Measurements and Approximations of Total Radioactivity

1. Gaseous Effluents

a. Fission and Activation Gases

Periodic grab samples are obtained from the Main Plant Exhaust Duct, Fuel Building Exhaust Vent and Radwaste Building Exhaust Vent. These samples are analyzed utilizing high purity germanium detectors coupled to computerized pulse height analyzers. The sampling and analysis frequencies are described in Table 1. Sampling and analysis of these effluent streams provide noble gas radionuclide relative abundances which can then be applied to the noble gas gross activity and gross activity release rate to obtain nuclide specific activities and release rates. The noble gas gross activity released within a specific time period is determined by integrating the stack monitor release rate over the considered time period. If no activity was detected between stack grab samples and significant increase in hourly averages were recorded, the nuclide relative abundances of the last sample which indicated the presence of activity was utilized to obtain nuclide specific activities. Correction factors for the monitors are derived and applied for each sampling period whenever noble gas radionuclides are detected in the effluent stream.

b. Particulates and Iodines

Particulates and iodines are continuously sampled from each of the three release points utilizing a particulate filter and charcoal cartridge in line with a ample pump (stack monitor pump). These filters and charcoal cartridges are removed and analyzed in accordance with the frequencies specified in Table 1. Analysis is performed to identify and quantify radionuclides utilizing high purity germanium detectors coupled to computerized pulse height analyzers. Given the nuclide specific activity concentrations, process flow rate, and time which the sample covered; the nuclide specific activity released to the environment can be obtained. Due to the continuous sampling process, it is assumed that the radioactive material is released to the environment at a constant rate within the sampling period. Sr-89 and Sr-90 are quantitatively analyzed by counting the digested filter precipitate with a gas flow proportional counter. Gross alpha analysis is performed using a zinc sulfide scintillation counter.

c. Tritium

Tritium grab samples are obtained from the three release points at the specified frequencies listed in Table 1 utilizing an ice bath condensation collection method. The collected sample is then analyzed utilizing a Liquid Scintillation Counter. Given the tritium concentration, process flow rate, and time period for which the sample is obtained, the tritium activity released to the environment can be determined. Due to the frequency of sampling, it is assumed that the tritium is released to the environment at a constant rate within the time period for which the sample is obtained.

2. Liquid Effluents

Representative grab samples are obtained from the appropriate sample recovery tank and analyzed prior to release of the tank in accordance with the frequencies listed in Table 2. Analysis for gamma emitting nuclides (including dissolved and entrained noble gases) is performed utiiizing a high resolution germanium detector coupled to a computerized pulse height analyzer. Tritium concentration is determined utilizing a Liquid Scintillation Counter. Sr-89 and Sr-90 are quantitatively analyzed by counting the precipitate with a gas flow proportional counter. Fe-55 is counted with a Liquid Scintillation Counter after digestion of the iron. Gross alpha analysis is performed using a zinc sulfide scintillation counter.

Given the nuclide specific activity concentration and total volume of the tank that was released, the activity of each nuclide released to the environment can be determined.

E. Batch Releases

1. Liquid

3rd Quarter 1991

a.	Number of batch releases	:	77
b.	Total time period for batch releases	:	534.38 hr
c.	Maximum time period for batch releases	:	17.08 hr
d.	Average time period for batch releases	:	6.94 hr
e.	Minimum time period for a batch release	:	0.05 hr
f.	Average stream flow during periods of release of effluent into a flowing stream	:	275,667 ft ³ /sec

4th Quarter 1991

a.	Number of batch releases	:	70
b.	Total time period for batch releases	:	457.47 hr
c.	Maximum time period for batch releases	:	8.10 hr
d.	Average time period for batch releases	:	6.54 hr
e.	Minimum time period for a batch release	:	0.07 hr
f.	Average stream flow during periods of release of effluent into a flowing stream	:	424,667 ft ³ /sec

2. Gaseous

All gaseous releases from River Bend Station are considered continuous releases.

F. Abnormal Releases

No abnormal Liquid or Gaseous release occurred during the reporting period of July 1, 1991, through December 31, 1991.

G. Estimate of Total Error

1. Liquid

The maximum error associated with sample collection, laboratory analysis, and discharge volume are collectively estimated to be:

Fission and Activation Products : \pm 14.2%

Tritium : \pm 14.2%

Dissolved and Entrained Noble Gases : \pm 14.2%

Gross Alpha Radioactivity : \pm 14.2%

2. Gaseous

The maximum errors (not including sample line loss) associated with sample flow, process flow, sample collection, monitor accuracy and laboratory analysis are collectively estimated to be:

Fission and Activation Gases : \pm 37.0%

Iodines : \pm 18.6%

Particulates : \pm 18.6%

Tritium : \pm 18.2%

3. Determination of Total Error

The total error (i.e., collective error due to sample collection, laboratory analysis, sample flow, process flow, monitor accuracy, etc.) is calculated using the following equation:

$$E = \sqrt{(E_1)^2 + (E_2)^2 + \dots + (E_n)^2}$$

where

total error

E_1, E_2, \dots, E_n = individual errors due to sample collection, laboratory analysis, sample flow, process flow, monitor accuracy, etc.

III. GASEOUS EFFLUENTS SUMMARY INFORMATION

Refer to Tables 3, 4 and 5 for Summation of All Releases and Nuclides Released, respectively. It should be noted that an entry of "0.00E+00" Curie (Ci) or microcurie/second (uCi/sec) in this section does not indicate the absence of a radionuclide; but, rather, indicates that the concentration of the particular radionuclide was below the Lower Limit of Detection (LLD) as listed in Table 1.

IV. LIQUID EFFLUENTS SUMMARY INFORMATION

Refer to Table 6 for Summation of All Releases and Nuclides Released. It should be noted that an entry of "0.00E+00" Ci or uCi/ml in this section does not indicate the absence of a radionuclide; but, rather, indicates that the concentration of the particular radionuclide was below the Lower Limit of Detection (LLD) as listed in Table 2.

V. SOLID WASTE

Refer to Table 7.

VI. RADIOLOGICAL IMPACT ON MAN

Doses to the maximally exposed individual offsite and populations were calculated using measured effluent and meteorological data. These doses can be found in Tables 8 through 12. Fourth quarter gaseous Sr-89 and Sr-90 values were based on third quarter composite results. Since the third quarter composite results for liquids were less than LLD, fourth quarter liquid Sr-89, Sr-90, and Fe-55 values were based on second quarter composite results. Fourth quarter and 40CFR190 values will be provided in the Addendum to the Semi-Annual Radiological Effluents Release Report.

In addition, doses were calculated for a maximally - exposed member of the public inside the site boundary. Parameters and assumptions utilized to make this determination can be found in Table 13. The results of the calculations can be found in Table 14. The maximally exposed member of the public on site was the private driver who delivers an employee to work and returns later that day to pick him/her up. It should be noted that liquid effluent pathway dose was not considered since these individuals would not engage in activities that would allow exposure to this pathway.

VII. METEOROLOGICAL DATA

See Tables 15 and 16 for cumulative joint frequency distributions and meteorological data for continuous releases.

VIII. RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION OPERABILITY

The minimum number of channels required to be **OPERABLE** as described in Table 3.3.7.10-1 of Technical Specification 3.3.7.10 were, if inoperable at any time in the period 7/1/91 through 12/31/91, restored to operable status within the required time. Reporting of these inoperable channels in this report is, therefore, not required.

IX. RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION OPERABILITY

The minimum number of channels required to be **OPERABLE** as described in Table 3.3.7.11-1 of Technical Specification 3.3.7.11 were, if inoperable at any time in the period 7/1/91 through 12/31/91, restored to operable status within the required time. Reporting of these inoperable channels in this report is therefore, not required.

X. LIQUID HOLD UP TANKS

The maximum quantity of radioactive material, excluding tritium and dissolved or entrained noble gases, contained in any unprotected outdoor tank during the period of 7/1/91 through 12/31/91 was less than or equal to the 10 curie limit as required by Technical Specification 3.11.1.4.

XI. RADIOLOGICAL ENVIRONMENTAL MONITORING

There were no changes in sampling locations for the Radiological Environmental Monitoring Program (REMP) during the reporting period 7/1/91 through 12/31/91.

XII. LAND USE CENSUS

The Land Use Census, as required by Technical Specification 4.12.2, did not identify any location(s) that would yield a calculated dose or dose commitment greater than the values calculated.

XIII. OFFSITE DOSE CALCULATION MANUAL (ODCM)

There were no changes to the ODCM for the period of 7/1/91 through 12/31/91.

XIV. MAJOR CHANGES TO RADIOACTIVE LIQUID, GASEOUS, AND SOLID WASTE TREATMENT SYSTEMS

There were no major changes to the radioactive liquid, gaseous, and solid waste treatment systems for the period of 7/1/91 through 12/31/91.

XV. PROCESS CONTROL PROGRAM (PCP)

No changes were made to the RBS Process Control Program (PCP) for the period 7/1/91 through 12/31/91.

TABLE 1
RADIOACTIVE GASEOUS WASTE SAMPLING AND ANALYSIS PROGRAM

GASEOUS RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) uCi/ml
A. Main Plant Exhaust Duct	M Grab Sample	M	Principal Gamma Emitters	1.00E-04
			H-3	1.00E-06
B. Fuel Building Ventilation Exhaust Duct	M Grab Sample	M	Principal Gamma Emitters	1.00E-04
			H-3	1.00E-06
C. Radwaste Building Ventilation Exhaust Duct	M Grab Sample	M	Principal Gamma Emitters	1.00E-04
D. All Release Types as listed in A, B, & C Above	Continuous	W Charcoal Sample	I-131	1.00E-12
			I-133	1.00E-10
	Continuous	W Particulate Sample	Principal Gamma Emitters (I-131, Others)	1.00E-11
	Continuous	M Composite Particulate Sample	Gross Alpha	1.00E-11
	Continuous	Q Composite Particulate Sample	Sr-89, Sr-90	1.00E-11
	Continuous	Noble Gas Monitor	Noble Gases Gross Beta or Gamma	1.00E-06

W = AT LEAST ONCE PER 7 DAYS

M = AT LEAST ONCE PER 31 DAYS

Q = AT LEAST ONCE PER 92 DAYS

TABLE 2
RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) uCi/ml
A. Batch Waste Release (Liquid Radwaste Recovery Sample Tanks)	P Each Batch	P Each Batch	Principal Gamma Emitters; except for Ce-144 I-131	5.00E-07 5.00E-06 1.00E-06
	P One Batch/M	M	Dissolved and Entrained Gases (Gamma Emitters)	1.00E-05
	P Each Batch	M Composite	H-3 Gross Alpha	1.00E-05 1.00E-07
	P Each Batch	Q Composite	Sr-89, Sr-90 Fe-55	5.00E-08 1.00E-06

P = Prior to each radioactive release

M = At least once per 31 days

Q = At least once per 92 days

TABLE 3
Effluent and Waste Disposal Semi-Annual Report 1991 Year
Gaseous Effluents - Summation of All Releases 3/4 Quarters

	Unit	Quarter 3	Quarter 4	Estimated Total Error %
A. Noble Gases				
1. Total Release	Ci	2.96E+02	4.81E+02	3.70E+01
2. Average release rate for period	uCi/sec	3.76E+01	6.10E+01	
3. Percent of technical specification limit (1)	%	5.74	4.68	
B. Iodines				
1. Total I-131 and I-133	I-131 Ci	9.33E-03	8.00E-03	1.86E+01
	I-133 Ci	6.99E-02	4.82E-02	1.86E+01
2. Average release rate for period uCi/sec	I-131	1.20E-03	1.00E-03	
	I-133	8.90E-03	6.10E-03	
3. I-131 + I-133 contribution percent of technical specification limit	%	4.30	3.57	
C. Particulates				
1. Particulates with half lives of > 8 days	Ci	1.88E-03	(2)	1.86E+01
2. Average release rate for period	uCi/sec	2.00E-04	(2)	
3. Percent of technical specification limit	%	0.0584	(2)	
4. Gross alpha radioactivity	Ci	0.00E+00	0.00E+00	

	Unit	Quarter 3	Quarter 4	Estimated Total Error %
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D. Tritium

1. Total Release	Ci	3.94E+00	2.42E+00	1.82E+01
2. Average release rate for period	uCi/sec	5.00E-01	3.07E-01	
3. Percent of technical Specification limit	%	0.0203	0.0147	

- (1) Either the gamma air dose limit of 5 mrads/qtr or beta air dose limit of 10 mrads/qtr (T.S. 3.11.2.2.a), which ever is most limiting.
- (2) Date is not available for submission at this time, supplemental report will follow.

TABLE 4

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1991 YEAR
GASEOUS EFFLUENTS - CONDITIONALLY ELEVATED RELEASES 3/4 QUARTERS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4

1. Fission Gases

Argon-41	Ci	0.00E+00	0.00E+00	N/A	N/A
Krypton-85m	Ci	5.95E+00	1.84E+00	N/A	N/A
Krypton-85	Ci	0.00E+00	0.00E+00	N/A	N/A
Krypton-87	Ci	0.00E+00	1.18E+01	N/A	N/A
Krypton-88	Ci	0.00E+00	8.40E+00	N/A	N/A
Xenon-133m	Ci	0.00E+00	0.00E+00	N/A	N/A
Xenon-133	Ci	2.71E+01	1.44E+02	N/A	N/A
Xenon-135m	Ci	5.14E+01	1.04E+02	N/A	N/A
Xenon-135	Ci	7.12E+01	1.39E+02	N/A	N/A
Xenon-137	Ci	0.00E+00	0.00E+00	N/A	N/A
Xenon-138	Ci	0.00E+00	2.18E+01	N/A	N/A
Unidentified	Ci	N/A	N/A	N/A	N/A
Total For Period	Ci	1.55E+02	4.31E+02	N/A	N/A

2. Gaseous Iodines

Iodine-131	Ci	9.04E-03	7.81E-03	N/A	N/A
Iodine-132	Ci	0.00E+00	0.00E+00	N/A	N/A
Iodine-133	Ci	6.88E-02	4.74E-02	N/A	N/A
Iodine-134	Ci	0.00E+00	0.00E+00	N/A	N/A
Iodine-135	Ci	0.00E+00	0.00E+00	N/A	N/A
Total	Ci	7.78E-02	5.52E-02	N/A	N/A

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4

3. Particulates

Strontium-89	Ci	4.75E-04	(1)	N/A	N/A
Strontium-90	Ci	1.76E-07	(1)	N/A	N/A
Cesium-134	Ci	0.00E+00	0.00E+00	N/A	N/A
Cesium-137	Ci	0.00E+00	0.00E+00	N/A	N/A
Barium-140	Ci	1.37E-03	6.39E-04	N/A	N/A
Cobalt-60	Ci	0.00E+00	5.82E-05	N/A	N/A
Chromium-51	Ci	3.13E-05	9.39E-05	N/A	N/A
Zirconium-95	Ci	0.00E+00	0.00E+00	N/A	N/A
Niobium-95	Ci	0.00E+00	0.00E+00	N/A	N/A
Zinc-65	Ci	0.00E+00	0.00E+00	N/A	N/A
Iron-59	Ci	0.00E+00	0.00E+00	N/A	N/A
Manganese-54	Ci	0.00E+00	0.00E+00	N/A	N/A
Iodine-131	Ci	0.00E+00	0.00E+00	N/A	N/A
Cerium-141	Ci	0.00E+00	4.18E-06	N/A	N/A
Cerium-144	Ci	0.00E+00	0.00E+00	N/A	N/A
Cobalt-58	Ci	0.00E+00	0.00E+00	N/A	N/A
Silver-110m	Ci	0.00E+00	0.00E+00	N/A	N/A
Molybdenum-99	Ci	0.00E+00	0.00E+00	N/A	N/A
Unidentified	Ci	N/A	N/A	N/A	N/A
Total For Period	Ci	1.88E-03	(1)	N/A	N/A

Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
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4. Tritium

Hydrogen-3	Ci	3.56E+00	2.04E+00	N/A	N/A
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(1) Data is not available for submission at this time, supplemental report will follow.

NOTE: Main Plant Exhaust Duct is considered a conditionally elevated release point.

TABLE 5

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1991 YEAR
GASEOUS EFFLUENTS - GROUND LEVEL RELEASES 3/4 QUARTERS

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4
1. Fission Gases					
Argon-41	Ci	0.00E+00	0.00E+00	N/A	N/A
Krypton-85m	Ci	8.66E-02	0.00E+00	N/A	N/A
Krypton-85	Ci	0.00E+00	0.00E+00	N/A	N/A
Krypton-87	Ci	0.00E+00	0.00E+00	N/A	N/A
Krypton-88	Ci	0.00E+00	0.00E+00	N/A	N/A
Xenon-133m	Ci	7.83E-01	3.34E-02	N/A	N/A
Xenon-133	Ci	3.48E+01	1.07E+01	N/A	N/A
Xenon-135m	Ci	4.41E+00	6.96E+00	N/A	N/A
Xenon-135	Ci	1.01E+02	3.25E+01	N/A	N/A
Xenon-137	Ci	0.00E+00	0.00E+00	N/A	N/A
Xenon-138	Ci	0.00E+00	0.00E+00	N/A	N/A
Unidentified	Ci	N/A	N/A	N/A	N/A
Total For Period	Ci	1.41E+02	5.02E+01	N/A	N/A

2. Gaseous Iodines

Iodine-131	Ci	2.89E-04	1.89E-04	N/A	N/A
Iodine-132	Ci	0.00E+00	0.00E+00	N/A	N/A
Iodine-133	Ci	1.08E-03	7.99E-04	N/A	N/A
Iodine-134	Ci	0.00E+00	0.00E+00	N/A	N/A
Iodine-135	Ci	0.00E+00	0.00E+00	N/A	N/A
Total	Ci	1.37E-03	9.88E-04	N/A	N/A

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
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3. Particulates

Strontium-89	Ci	3.11E-06	(1)	N/A	N/A
Strontium-90	Ci	0.00E+00	(1)	N/A	N/A
Cesium-134	Ci	0.00E+00	0.00E+00	N/A	N/A
Cesium-137	Ci	0.00E+00	0.00E+00	N/A	N/A
Barium	Ci	0.00E+00	0.00E+00	N/A	N/A
Lanthanum-140	Ci	0.00E+00	0.00E+00	N/A	N/A
Cobalt-60	Ci	0.00E+00	0.00E+00	N/A	N/A
Chromium-51	Ci	0.00E+00	0.00E+00	N/A	N/A
Zirconium-niobium-95	Ci	0.00E+00	0.00E+00	N/A	N/A
Zinc-65	Ci	0.00E+00	0.00E+00	N/A	N/A
Iron-59	Ci	0.00E+00	0.00E+00	N/A	N/A
Manganese-54	Ci	0.00E+00	0.00E+00	N/A	N/A
Iodine-131	Ci	0.00E+00	0.00E+00	N/A	N/A
Iodine-132	Ci	0.00E+00	0.00E+00	N/A	N/A
Iodine-133	Ci	0.00E+00	0.00E+00	N/A	N/A
Cerium-141	Ci	0.00E+00	0.00E+00	N/A	N/A
Cerium-144	Ci	0.00E+00	0.00E+00	N/A	N/A
Cobalt-58	Ci	0.00E+00	0.00E+00	N/A	N/A
Silver-110m	Ci	0.00E+00	0.00E+00	N/A	N/A
Molybdenum-99	Ci	0.00E+00	0.00E+00	N/A	N/A
Unidentified	Ci	N/A	N/A	N/A	N/A
Total For Period	Ci	3.11E-06	(1)	N/A	N/A

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4

4.0 Tritium

Hydrogen-3	Ci	3.83E-01	3.83E-01	N/A	N/A
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(1) Data is not available for submission at this time, supplemental report will follow.

NOTE: Fuel Building Exhaust Vent and Radwaste Building Exhaust Vent are considered ground level release points.

TABLE 6

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1991 YEAR
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter 3	Quarter 4	Est. Total Error %
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A. Fission and activation products

1. Total release (not including tritium, gases, alpha)	Ci	4.31E-02	(4)	1.42E+01
2. Average diluted concentration during period	uCi/ml	4.00E-08	(4)	
3. Percent of applicable limit (1)	%	3.45	(4)	

B. Tritium

1. Total release	Ci	8.54E+00	6.44E+00	1.42E+01
2. Average diluted concentration during period	uCi/ml	7.92E-06	6.77E-06	
3. Percent of applicable limit (2)	%	0.264	0.226	

C. Dissolved and entrained gases

1. Total release	Ci	0.226	0.120	1.42E+01
2. Average diluted concentration during period	uCi/ml	2.10E-07	1.26E-07	
3. Percent of applicable limit (3)	%	0.105	0.063	

	Unit	Quarter 3	Quarter 4	Est. Total Error %
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D. Gross alpha radioactivity

1. Total release	Ci	0.00E+00	0.00E+00	1.42E+01
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Unit	Quarter 3	Quarter 4	Est. Total Error %
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E. Volume of waste released (prior to dilution)

Liters	4.23E+06	3.78E+06	8.73E-01
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F. Volume of dilution water

Liters	1.08E+09	9.52E+08	5.70E-01
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- (1) One quarter of 5 Ci annual limit (1.25 Ci) for liquid releases is the applicable limit from 10CFR50 Appendix I, except for tritium and dissolved or entrained noble gases.
- (2) 10CFR20, Appendix B, Table II, Column 2 MPC limit of 3.00E-03 uCi/ml for tritium.
- (3) Technical Specification 3.11.1.1 limit of 2.00E-04 uCi/ml for dissolved or entrained noble gases in liquid effluents.
- (4) Data is not available at this time, supplemental report will follow.

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1991 YEAR
LIQUID EFFLUENTS 3/4 QUARTERS

G. Particulates

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4
Hydrogen-3	Ci	N/A	N/A	8.54E+00	6.44E+00
Arsenic-76	Ci	N/A	N/A	2.29E-05	2.01E-05
Strontium-89	Ci	N/A	N/A	0.00E+00	(1)
Strontium-90	Ci	N/A	N/A	0.00E+00	(1)
Strontium-91	Ci	N/A	N/A	2.70E-05	0.00E+00
Strontium-92	Ci	N/A	N/A	0.00E+00	2.50E-05
Cesium-134	Ci	N/A	N/A	0.00E+00	0.00E+00
Cesium-137	Ci	N/A	N/A	0.00E+00	3.45E-05
Iodine-131	Ci	N/A	N/A	2.56E-04	1.43E-03
Iodine-132	Ci	N/A	N/A	0.00E+00	0.00E+00
Iodine-133	Ci	N/A	N/A	1.85E-04	6.14E-04
Iodine-134	Ci	N/A	N/A	0.00E+00	0.00E+00
Iodine-135	Ci	N/A	N/A	0.00E+00	2.54E-05
Sodium-24	Ci	N/A	N/A	0.00E+00	0.00E+00
Cobalt-57	Ci	N/A	N/A	8.71E-06	0.00E+00
Cobalt-58	Ci	N/A	N/A	3.74E-04	4.63E-03
Cobalt-60	Ci	N/A	N/A	8.45E-03	3.99E-02
Iron-55	Ci	N/A	N/A	0.00E+00	(1)
Iron-59	Ci	N/A	N/A	2.75E-04	5.90E-03
Zinc-65	Ci	N/A	N/A	1.23E-04	1.67E-03
Manganese-54	Ci	N/A	N/A	2.03E-03	1.62E-02
Manganese-56	Ci	N/A	N/A	0.00E+00	0.00E+00
Chromium-51	Ci	N/A	N/A	1.99E-02	6.35E-02
Zirconium-95	Ci	N/A	N/A	5.66E-05	3.50E-04
Niobium-95	Ci	N/A	N/A	1.66E-05	6.47E-04
Niobium-97	Ci	N/A	N/A	2.50E-05	4.40E-04
Molybdenum-99	Ci	N/A	N/A	8.56E-04	1.39E-03

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4
Technetium-99m	Ci	N/A	N/A	5.09E-04	5.91E-04
Barium-140	Ci	N/A	N/A	2.00E-04	2.29E-03
Lanthanum-140	Ci	N/A	N/A	8.32E-03	1.39E-02
Cerium-141	Ci	N/A	N/A	2.00E-04	1.33E-03
Cerium-144	Ci	N/A	N/A	0.00E+00	0.00E+00
Antimony-122	Ci	N/A	N/A	0.00E+00	0.00E+00
Antimony-124	Ci	N/A	N/A	6.66E-05	1.62E-03
Rhodium-105	Ci	N/A	N/A	1.26E-04	0.00E+00
Bromine-82	Ci	N/A	N/A	0.00E+00	0.00E+00
Neptunium-239	Ci	N/A	N/A	1.27E-05	3.12E-04
Yttrium-91m	Ci	N/A	N/A	2.96E-05	0.00E+00
Yttrium-92	Ci	N/A	N/A	6.25E-04	3.16E-04
Silver-110m	Ci	N/A	N/A	7.78E-05	4.47E-04
Tungsten-187	Ci	N/A	N/A	0.00E+00	0.00E+00
Copper-64	Ci	N/A	N/A	0.00E+00	0.00E+00
Tin-113	Ci	N/A	N/A	0.00E+00	1.02E-04
Tellurium-132	Ci	N/A	N/A	0.00E+00	2.57E-05
Ruthenium-103	Ci	N/A	N/A	3.09E-05	6.65E-04
Ruthenium-105	Ci	N/A	N/A	3.40E-04	3.07E-04
Total For Period	Ci	N/A	N/A	8.58E+00	(1)

(1) Data is not available at this time, supplemental report will follow.

H. DISSOLVED AND ENTRAINED GASES

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4
Argon-41	Ci	N/A	N/A	0.00E+00	0.00E+00
Krypton-85m	Ci	N/A	N/A	0.00E+00	0.00E+00
Krypton-85	Ci	N/A	N/A	0.00E+00	0.00E+00
Krypton-87	Ci	N/A	N/A	0.00E+00	0.00E+00
Krypton-88	Ci	N/A	N/A	0.00E+00	0.00E+00
Xenon-131m	Ci	N/A	N/A	0.00E+00	2.11E-04
Xenon-133m	Ci	N/A	N/A	4.16E-03	2.03E-03
Xenon-133	Ci	N/A	N/A	8.02E-02	4.30E-02
Xenon-135m	Ci	N/A	N/A	4.06E-05	0.00E+00
Xenon-135	Ci	N/A	N/A	1.41E-01	7.43E-02
Xenon-137	Ci	N/A	N/A	0.00E+00	0.00E+00
Xenon-138	Ci	N/A	N/A	0.00E+00	0.00E+00
Unidentified	Ci	N/A	N/A	N/A	N/A
Total For Period	Ci	N/A	N/A	2.26E-01	1.20E-01

TABLE 7

Effluent and Waste Disposal Semiannual Report 1991 Year

Solid Waste and Irradiated Fuel Shipments
Reporting Period January, 1991 to June, 1991 Qtr 1/2

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

1. Type of waste	Unit	6-Month Period	Waste Class	Est. Total Error, %
a. Spent resin, filters, sludges, evaporator bottoms, ect.	**m ³ Ci	0.00 0.00	N/A	N/A
b. Dry compressible wastes, contaminated equip., etc.	**m ³ Ci	42.40 3.66	A-U	See Below
c. Irradiated components, control rods, etc.	**m ³ Ci	0.00 0.00	N/A	N/A
d. Other (None)	**m ³ Ci	0.00 0.00	N/A	N/A

Radwaste Estimated Total Error (%)

Waste types considered are processed solid wastes (i.e. resins, filter media, ect.) and Dry Active Waste(DAW) - Compactable/Non-compactable.

1. Possible Errors

- a. Volume
- b. Representative Sampling
- c. Instrument/Counting
- d. Dose to Curie calculations

2. Volume Error

Radwaste vendor personnel have stated that level indication can be determined to ± 0.5 inches. This correlates to approximately 1.0%. Container manufacturer stated design tolerance allows for 1.0% deviation from container dimensions.

3. Representative Sampling Error

Sampling error for processed resins is based upon obtaining a representative sample from the waste being processed using an iso-lock sampler. Sampling error for Dry Active Wastes is based upon obtaining a representative sample from the material being packaged. This error is assumed to be $\pm 10\%$, which is consistent with industry standards.

4. Instrument/Counting Error

Error caused by the sample geometry, counting time, sample activity, and instrument background is estimated by Chemistry to be $\pm 10\%$. The error for radiological survey instruments is estimated by Radiation Protection to be $\pm 20\%$.

5. Dose to Curie Calculations

The I/6En formula is used to calculate Dose to Curie activities. This method suffers from analytical accuracy in that certain important parameters are neglected. These parameters are geometry of package, measuring instruments characteristics, build-up, internal attenuation effect, and external media attenuation. An activity correction factor is applied to provide adjustment for these factors.

** - Volume considered to be the total disposal volume of the container.

2. ESTIMATES OF MAJOR NUCLIDES BY WASTE STREAM

Type of Waste	Spent resin, filters sludges, evaporator bottoms, etc.		Dry compressible waste, contaminated equipment, etc.		Irradiated components, control rods, etc.	Other (None)
Principle Radionuclides Identity and % Abundance	Isotope	Percent Abundance	Isotope	Percent Abundance	N/A	N/A
	N/A	N/A	Co-60	61.500%		
			Fe-55	22.300%		
			Mn-54	8.930%		
			Zn-65	2.740%		
			C-14	1.720%		
			Ni-63	1.280%		
			Cr-51	0.690%		
			Co-58	0.360%		
			Pu-241	0.230%		
			Cs-137	0.180%		
			Pu-238	0.001%		
			Pu-			
			239/40	0.001%		
			Am-241	0.000%		
			Cm-242	0.000%		
			Cm-			
			243/44	0.000%		
Determined by:	N/A		C		N/A	N/A
A. measurement						
B. estimation						
C. measurement/ correlation						
Type of Container	N/A		Strong, Tight Containers		N/A	N/A
Solidification Agent or Absorbant	N/A		None		N/A	N/A

3. SOLID WASTE DISPOSITION

Number of Shipments Mode of Transportation Destination
18 Truck Barnwell, S.C.

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments Mode of Transportation Destination
Zero (0) N/A N/A

TABLE 7

Effluent and Waste Disposal Semiannual Report 1991 Year

Solid Waste and Irradiated Fuel Shipments
Reporting Period July, 1991 to December, 1991 Qtr 3/4

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

1. Type of waste	Unit	6-Month Period	Waste Class	Est. Total Error, %
a. Spent resin, filters, sludges, evaporator bottoms, ect.	**m ³ Ci	123.4 86.6	A-U A-S B	See Below
b. Dry compressible wastes, contaminated equip., etc.	**m ³ Ci	2.83E-3 4.94E-4	A-U	See Below
c. Irradiated components, control rods, etc.	**m ³ Ci	0.0 0.0	N/A	N/A
d. Other (None)	**m ³ Ci	0.0 0.0	N/A	..

Radwaste Estimated Total Error (ii)

Waste types considered are processed solid wastes (i.e. resins, filter media, ect.) and Dry Active Waste(DAW) - Compactable/Non-compactable.

1. Possible Errors

- a. Volume
- b. Representative Sampling
- c. Instrument/Counting
- d. Dose to Curie calculations

2. Volume Error

Radwaste vendor personnel have stated that level indication can be determined to ± 0.5 inches. This correlates to approximately 1.0%. Container manufacturer stated design tolerance allows for 1.0% deviation from container dimensions.

3. Representative Sampling Error

Sampling error for processed resins is based upon obtaining a representative sample from the waste being processed using an iso-lock sampler. Sampling error for Dry Active Wastes is based upon obtaining a representative sample from the material being packaged. This error is assumed to be $\pm 10\%$, which is consistent with industry standards.

4. Instrument/Counting Error

Error caused by the sample geometry, counting time, sample activity, and instrument background is estimated by Chemistry to be $\pm 10\%$. The error for radiological survey instruments is estimated by Radiation Protection to be $\pm 20\%$.

5. Dose to Curie Calculations

The I/6En formula is used to calculate Dose to Curie activities. This method suffers from analytical accuracy in that certain important parameters are neglected. These parameters are geometry of package, measuring instruments characteristics, build-up, internal attenuation effect, and external media attenuation. An activity correction factor is applied to provide adjustment for these factors.

** - Volume considered to be the total disposal volume of the container.

2. ESTIMATES OF MAJOR NUCLIDES BY WASTE STREAM

Type of Waste	Spent resin, filters sludges, evaporator bottoms, etc.		Dry compressible waste, contaminated equipment, etc.		Irradiated components, control rods, etc.	Other (None)
Principle Radionuclides Identity and % Abundance	Isotope	Percent Abundance	Isotope	Percent Abundance	N/A	N/A
	Co-60	59.750%	Co-60	61.500%		
	Mn-54	14.749%	Fe-55	22.300%		
	Sr-89	6.802%	Mn-54	8.930%		
	Fe-55	4.162%	Zn-65	2.740%		
	Cs-137	3.084%	C-14	1.720%		
	Cs-134	2.795%	Ni-63	1.280%		
	Cr-51	2.635%	Cr-51	0.690%		
	Zn-65	1.634%	Co-58	0.360%		
	Co-58	1.244%	Pu-241	0.230%		
	Ni-63	1.057%	Cs-137	0.180%		
	Ba/La -140	0.784%	Pu-238	0.001%		
	H-3	0.749%	Pu-			
	Sr-90	0.273%	239/40	0.001%		
	Fe-59	0.227%	Am-241	0.000%		
	Ce-144	0.032%	Cm-242	0.000%		
	I-131	0.014%	Cm-			
	C-14	0.009%	243/44	0.000%		
	Pu-238	0.000%				
	Pu-					
	239/40	0.000%				
	Cm-242	0.000%				
	Pu-241	0.000%				
	I-129	0.000%				
	Tc-99	0.000%				
	Nb-94	0.000%				
	Ni-59	0.000%				
Determined by: A. measurement B. estimation C. measurement/ correlation	C		C		N/A	N/A
Type of Container	Strong, Tight Liners		Strong, Tight Containers		N/A	N/A
Solidification Agent or Absorbant	Cement - 1 Liner and None - 21 Liners		None		N/A	N/A

3. SOLID WASTE DISPOSITION

Number of Shipments Mode of Transportation Destination
23 Truck Barnwell, S.C.

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Number of Shipments Mode of Transportation Destination
Zero (0) N/A N/A

TABLE 8
Maximum Individual Doses Due to
Noble Gaseous Releases
1991

	Critical Sector	Critical Distance	Whole Body Dose* (mrem)	Skin Dose* (mrem)
1st Quarter	NW	960m	1.70E-01	3.40E-01
2nd Quarter	NW	960m	3.70E-01	7.30E-01
Semi-Annual Total			5.40E-01	1.10E+00
3rd Quarter	NW	960m	1.90E-01	4.10E-01
4th Quarter	NW	960m	1.40E-01	2.70E-01
Semi-Annual Total			3.30E-01	6.80E-01
Annual Total			8.70E-01	1.80E+00

*All age groups equally exposed

TABLE 9
Maximum Individual Doses (Gaseous) Due To
Gaseous Releases (H_3 , Radioiodines and Particulates)
1991

Significant Organ Dose (mrem)					
	Critical Sector	Critical* Distance	Critical Age Group	Critical Organ	Critical Dose
1st Quarter	NW	960m	Child	Thyroid	2.20E-01
2nd Quarter	NW	960m	Child	Thyroid	5.50E-01
Semi-Annual Total					7.70E-01
3rd Quarter	NW	960m	Child	Thyroid	1.60E-01
4th Quarter	NW	960m	Child	Thyroid	3.80E-01
Semi-Annual Total					5.40E-01
Annual Total					1.30E+00

*The 960m maximum individual includes a "control cow" at 4.5 miles in the NW sector

TABLE 10
Maximum Individual Doses (Liquid)
1991

Critical Receptor: Edge of Initial Mixing Zone

	Whole Body Dose (mrem)		Significant Organ Dose (mrem)		
	Critical Age	Dose	Critical Age	Critical Organ	Dose
1st Quarter	Teen	5.90E-03	Adult	GI Tract	7.90E-02
2nd Quarter	Child	3.70E-03	Adult	GI Tract	2.20E-02
Semi-Annual Total		9.60E-03			1.01E-01

3rd Quarter	Teen	4.10E-03	Adult	GI Tract	5.20E-02
4th Quarter	Teen	3.80E-02	Adult	GI Tract	4.30E-01
Semi-Annual Total		4.20E-02			4.80E-01
Annual Total		5.20E-02			5.80E-01

TABLE 11

SEMI-ANNUAL POPULATION DOSE (GASEOUS)
RELEASED OCCURRING 01/01/91 THROUGH 06/30/91

PATHWAY	WHOLE BODY DOSE (MAN-REM)	THYROID DOSE (MAN-REM)
---------	---------------------------	------------------------

SUBMERSION IN NOBLE GASES

1st Quarter	1.70E-01	1.70E-01
2nd Quarter	1.30E-01	1.30E-01

CONTAMINATED GROUND

1st Quarter	1.00E-04	1.00E-04
2nd Quarter	6.80E-05	6.80E-05

INHALATION

1st Quarter	1.60E-03	7.70E-02
2nd Quarter	1.30E-03	4.70E-02

VEGETATION CONSUMPTION

1st Quarter	8.70E-04	7.00E-02
2nd Quarter	9.30E-04	6.70E-02

COW MILK CONSUMPTION

1st Quarter	1.70E-04	4.90E-02
2nd Quarter	1.70E-04	4.70E-02

BEEF CONSUMPTION

1st Quarter	1.80E-04	9.10E-03
2nd Quarter	1.90E-04	8.30E-03
Total	3.10E-01	6.70E-01

AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)

1st Quarter	1.50E-04	3.20E-04
2nd Quarter	1.10E-04	2.60E-04
Total	2.60E-04	5.80E-04

TABLE 11

**SEMI-ANNUAL POPULATION DOSE (GASEOUS)
RELEASED OCCURRING 6/1/91 THROUGH 12/31/91**

PATHWAY	WHOLE BODY DOSE (MAN-REM)	THYROID DOSE (MAN-REM)
SUBMERSION IN NOBLE GASES		
3rd Quarter	3.00E-01	3.00E-01
4th Quarter	2.50E-01	2.50E-01
CONTAMINATED GROUND		
3rd Quarter	7.20E-05	7.20E-05
4th Quarter	5.30E-04	5.30E-04
INHALATION		
3rd Quarter	2.10 E-03	7.30E-02
4th Quarter	1.40E-03	5.10E-02
VEGETATION CONSUMPTION		
3rd Quarter	9.30E-04	4.50E-02
4th Quarter	9.50E-04	5.20E-02
COW MILK CONSUMPTION		
3rd Quarter	2.50E-04	5.80E-02
4th Quarter	1.10E-04	3.00E-02
BEEF CONSUMPTION		
3rd Quarter	2.50E-04	1.00E-02
4th Quarter	1.40E-04	5.30E-03
Total	5.50E-01	8.8E-01
AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)		
3rd Quarter	2.60E-04	4.20E-04
4th Quarter	2.20E-04	3.30E-04
Total	4.80E-04	7.50E-04

TABLE 12
SEMI-ANNUAL POPULATION DOSES (LIQUID)
RELEASES OCCURRING 01/01/91 THROUGH 06/30/91

PATHWAY	TOTAL BODY (MAN-REM)	THYROID (MAN-REM)	SKIN (MAN-REM)
SWIMMING			
1st Quarter	1.10E-05	1.10E-05	1.30E-05
2nd Quarter	2.50E-06	2.50E-06	3.20E-06
BOATING			
1st Quarter	2.10E-05	2.10E-06	2.60E-05
2nd Quarter	4.90E-06	4.90E-06	6.30E-06
POTABLE WATER			
1st Quarter	4.50E-04	7.80E-04	N/A
2nd Quarter	3.40E-04	1.90E-04	N/A
SPORT FISH			
1st Quarter	6.40E-04	4.70E-04	N/A
2nd Quarter	7.70E-04	3.90E-05	N/A
COMMERCIAL FISH			
1st Quarter	1.90E-06	1.10E-06	N/A
2nd Quarter	2.30E-06	1.00E-07	N/A
SHORELINE RECREATION			
1st Quarter	1.20E-03	1.20E-03	N/A
2nd Quarter	2.90E-06	2.90E-04	N/A
TOTAL	3.70E-03	3.00E-03	4.90E-05
AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)			
1st Quarter	2.00E-06	2.10E-06	3.40E-08
2nd Quarter	1.20E-06	4.50E-07	8.20E-09
Total	3.20E-06	2.60E-06	4.20E-08

TABLE 12

**SEMI-ANNUAL POPULATION DOSES (LIQUID)
RELEASES OCCURRING 07/01/91 THROUGH 12/31/91**

PATHWAY	TOTAL BODY (MAN·REM)	THYROID (MAN·REM)	SKIN (MAN·REM)
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SWIMMING

3rd Quarter	9.00E-06	9.00E-06	1.10E-05
4th Quarter	4.20E-05	4.20E-05	5.00E-05

BOATING

3rd Quarter	1.80E-05	1.80E-05	2.20E-05
4th Quarter	8.30E-05	8.30E-05	1.00E-04

POTABLE WATER

3rd Quarter	4.40E-04	6.40E-04	N/A
4th Quarter	7.80E-04	1.80E-03	N/A

SPORT FISH

3rd Quarter	3.30E-04	2.80E-04	N/A
4th Quarter	4.20E-03	1.50E-03	N/A

COMMERCIAL FISH

3rd Quarter	9.50E-07	6.70E-07	N/A
4th Quarter	1.20E-05	3.50E-06	N/A

SHORELINE RECREATION

3rd Quarter	1.20E-03	1.20E-03	N/A
4th Quarter	6.50E-03	6.50E-03	N/A
Total	1.40E-02	1.20E-02	1.80E-04

AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)

3rd Quarter	1.70E-06	1.80E-06	2.80E-08
4th Quarter	1.00E-05	8.50E-06	1.30E-07
Total	1.20E-05	1.00E-05	1.60E-07

TABLE 13
**ASSUMPTIONS/PARAMETERS FOR DOSES TO
 MEMBER OF THE PUBLIC INSIDE SITE BOUNDARY**

MEMBER OF THE PUBLIC	LOCATION	DISTANCE ⁽¹⁾ METERS	SECTOR	DURATION (HR/YEAR)
Private Drivers	North Parking Lot	275	N	125 ⁽⁶⁾
Visitors to Energy Center	Training Center	1771	N	1.5
Employee ⁽²⁾ Candidate	Personnel Office (across from Training Center)	1771	N	2
Employee ⁽²⁾ Candidate	Service Building	115 ⁽³⁾	ENE	5
People Entering Site Without Consent	Alligator Bayou	2500	SW	40
Casual Drivers	Main Admin Building	500	WNW	76 ⁽⁵⁾
Tour Group In Bus	North Parking Lot	275	N	1

- (1) The approximate distance from main plant vent exhaust to location.
- (2) The employee candidate is expected to spend 2 hours in the Personnel Office for initial interviews and 5 hours in the Services Building for interviews with prospective supervisors/co-workers.
- (3) Midpoint of building
- (4) An individual is assumed to be on site 0.25/hr in the morning and 0.25/hr in the evening, 5 days per week, 50 weeks per year (0.5 hr/day * 5 days/week * 50 weeks/year = 125 hours).
- (5) An individual is assumed to be on site 0.5 hr/day.
- (6) Liquid pathways dose is not considered due to nature of activities that individuals are engaged in.

TABLE 14

**DOSES TO MEMBERS OF THE PUBLIC ON SITE
FROM GASEOUS RELEASES 1991**

MEMBER OF THE PUBLIC	RECEPTOR LOCATION	QUARTER	CRITICAL AGE GROUP	CRITICAL ORGAN	CRITICAL ORGAN DOSE (MREM)	WHOLE BODY DOSE (MREM)	SKIN DOSE (MREM)
Private Drivers	North Parking Lot at 275 m N	1st Quarter	Teen	Thyroid	7.10E-03	4.80E-03	9.70E-03
		2nd Quarter	Teen	Thyroid	1.50E-02	1.20E-02	2.40E-02
Semi-Annual Total					2.20E-02	1.70E-02	3.40E-02
Private Drivers	North Parking Lot at 275 m N	3rd Quarter	Teen	Thyroid	7.60E-03	6.50E-03	1.40E-02
		4th Quarter	Teen	Thyroid	1.70E-02	1.40E-02	2.50E-02
Semi-Annual Total					2.50E-02	2.10E-02	3.90E-02
Employee Candidate	Services Building 115 m ENE	1st Quarter	Teen	Thyroid	1.20E-03	9.30E-04	1.90E-03
		2nd Quarter	Teen	Thyroid	1.00E-03	8.60E-04	1.70E-03
Semi-Annual Total					2.20E-03	1.80E-03	3.60E-03
Employee Candidate	Services Building 115 m ENE	3rd Quarter	Teen	Thyroid	2.80E-03	2.40E-03	5.00E-03
		4th Quarter	Teen	Thyroid	1.10E-03	9.10E-04	1.70E-03
Semi-Annual Total					3.90E-03	3.30E-03	6.70E-03

TABLE 14

**DOSES TO MEMBERS OF THE PUBLIC ON SITE
FROM GASEOUS RELEASES 1991**

MEMBER OF THE PUBLIC	RECEPTOR LOCATION	QUARTER	CRITICAL AGE GROUP	CRITICAL ORGAN	CRITICAL ORGAN DOSE (MREM)	WHOLE BODY DOSE (MREM)	SKIN DOSE (MREM)
People Entering Site Without Consent	Alligator Bayou at 2500 m SW	1st Quarter	Teen	Thyroid	1.30E-04	9.70E-05	2.00E-04
		2nd Quarter	Teen	Thyroid	8.70E-05	8.70E-05	1.70E-04
Semi-Annual Total					2.20E-04	1.80E-04	3.70E-04
People Entering Site Without Consent	Alligator Bayou at 2500 m SW	3rd Quarter	Teen	Thyroid	1.90E-04	1.60E-04	3.40E-04
		4th Quarter	Teen	Thyroid	9.50E-03	7.80E-03	1.50E-02
Semi-Annual Total					9.70E-03	8.00E-03	1.50E-02
Casual Visitor	Main Admin at 500 m WNW	1st Quarter	Teen	Thyroid	3.80E-03	2.70E-03	5.60E-03
		2nd Quarter	Teen	Thyroid	6.30E-03	4.80E-03	9.60E-03
Semi-Annual Total					1.00E-03	7.50E-03	1.50E-02
Casual Visitor	Main Admin at 500 m WNW	3rd Quarter	Teen	Thyroid	5.30E-03	4.70E-03	1.00E-02
		4th Quarter	Teen	Thyroid	2.60E-04	2.20E-04	4.10E-04
Semi-Annual Total					5.60E-03	4.90E-03	1.00E-02

TABLE 15
METEOROLOGICAL DATA
1991

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 ALL STABILITY CLASSES

FROM 1/1/91 0100 TO 3/31/91 2300

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1-9.0	9.1-10.0	10.1-11.0	11.1-12.0	12.1-13.0	13.1-14.0	>14.0	TOT.
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	0
N	7	15	12	19	27	74	68	1	0	0	0	0	0	0	223
HNE	2	3	8	37	42	81	21	0	0	0	0	0	0	0	194
NE	7	12	1	15	35	45	12	0	0	0	0	0	0	0	127
ENE	12	23	19	24	21	30	29	0	0	0	0	0	0	0	158
E	6	19	12	17	11	13	2	0	0	0	0	0	0	0	80
ESE	4	6	7	15	30	33	11	0	0	0	0	0	0	0	106
SE	3	7	7	26	52	74	13	1	0	0	0	0	0	0	183
SSE	2	3	2	9	10	36	97	18	0	0	0	0	0	0	177
S	0	2	2	2	8	37	55	15	2	0	0	0	0	0	123
SSW	2	3	2	9	13	32	37	13	0	0	0	0	0	0	111
SW	3	3	2	6	12	16	19	0	0	0	0	0	0	0	61
WSW	1	3	5	11	10	15	6	0	0	0	0	0	0	0	51
W	2	4	20	16	7	16	8	0	0	0	0	0	0	0	73
WNW	2	15	11	26	11	18	9	1	0	0	0	0	0	0	93
NW	4	16	9	24	24	31	27	2	0	0	0	0	0	0	137
NNW	4	12	8	9	15	52	61	13	0	0	0	0	0	0	174
TOTAL	61	146	127	265	328	603	475	64	2	0	0	0	0	0	2071

NUMBER OF CALMS: 7

NUMBER OF INVALID HOURS: 82

NUMBER OF VALID HOURS: 2020

TOTAL HOURS FOR THE PERIOD: 2160

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

FROM 1/ 1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<2.0	.51- .76	1.1- 1.6	2.1- 3.1	5.1- 7.1	10.1- 13.1	>13	101
	0	0	0	0	0	0	0	0
N	0	0	0	0	1	5	0	0
NNE	0	0	0	2	7	0	0	0
NE	0	0	0	1	14	6	0	0
ENE	0	0	0	1	17	4	0	0
E	0	0	0	1	2	0	0	0
ESE	0	0	0	2	10	1	0	0
SE	0	0	0	4	17	2	0	0
SSE	0	0	0	0	3	15	1	0
S	0	0	0	1	2	6	4	0
SSW	0	0	0	0	0	1	0	0
SW	0	0	0	0	0	1	0	0
WSW	0	0	0	0	1	1	0	0
W	0	0	0	0	2	1	0	0
WNW	0	0	0	0	1	0	0	0
NW	0	0	0	0	0	2	0	0
NNW	0	0	0	0	3	0	1	0
TOTAL	0	0	0	3	16	75	52	152

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 152

TOTAL HOURS FOR THE PERIOD: 152

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS B

FROM 1/ 1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	22-31	31-36	36-41	41-46	46-51	51-56	56-61	61-66	66-71	71-76	76-81	81-86	86-91	91-96	96-101	101-106	106-111	111-116	116-121	121-126	126-131	131-136	136-141	141-146	146-151	151-156	156-161	161-166	166-171	171-176	176-181	181-186	186-191	191-196	196-201	201-206	206-211	211-216	216-221	221-226	226-231	231-236	236-241	241-246	246-251	251-256	256-261	261-266	266-271	271-276	276-281	281-286	286-291	291-296	296-301	301-306	306-311	311-316	316-321	321-326	326-331	331-336	336-341	341-346	346-351	351-356	356-361	361-366	366-371	371-376	376-381	381-386	386-391	391-396	396-401	401-406	406-411	411-416	416-421	421-426	426-431	431-436	436-441	441-446	446-451	451-456	456-461	461-466	466-471	471-476	476-481	481-486	486-491	491-496	496-501	501-506	506-511	511-516	516-521	521-526	526-531	531-536	536-541	541-546	546-551	551-556	556-561	561-566	566-571	571-576	576-581	581-586	586-591	591-596	596-601	601-606	606-611	611-616	616-621	621-626	626-631	631-636	636-641	641-646	646-651	651-656	656-661	661-666	666-671	671-676	676-681	681-686	686-691	691-696	696-701	701-706	706-711	711-716	716-721	721-726	726-731	731-736	736-741	741-746	746-751	751-756	756-761	761-766	766-771	771-776	776-781	781-786	786-791	791-796	796-801	801-806	806-811	811-816	816-821	821-826	826-831	831-836	836-841	841-846	846-851	851-856	856-861	861-866	866-871	871-876	876-881	881-886	886-891	891-896	896-901	901-906	906-911	911-916	916-921	921-926	926-931	931-936	936-941	941-946	946-951	951-956	956-961	961-966	966-971	971-976	976-981	981-986	986-991	991-996	996-1001	1001-1006	1006-1011	1011-1016	1016-1021	1021-1026	1026-1031	1031-1036	1036-1041	1041-1046	1046-1051	1051-1056	1056-1061	1061-1066	1066-1071	1071-1076	1076-1081	1081-1086	1086-1091	1091-1096	1096-1101	1101-1106	1106-1111	1111-1116	1116-1121	1121-1126	1126-1131	1131-1136	1136-1141	1141-1146	1146-1151	1151-1156	1156-1161	1161-1166	1166-1171	1171-1176	1176-1181	1181-1186	1186-1191	1191-1196	1196-1201	1201-1206	1206-1211	1211-1216	1216-1221	1221-1226	1226-1231	1231-1236	1236-1241	1241-1246	1246-1251	1251-1256	1256-1261	1261-1266	1266-1271	1271-1276	1276-1281	1281-1286	1286-1291	1291-1296	1296-1301	1301-1306	1306-1311	1311-1316	1316-1321	1321-1326	1326-1331	1331-1336	1336-1341	1341-1346	1346-1351	1351-1356	1356-1361	1361-1366	1366-1371	1371-1376	1376-1381	1381-1386	1386-1391	1391-1396	1396-1401	1401-1406	1406-1411	1411-1416	1416-1421	1421-1426	1426-1431	1431-1436	1436-1441	1441-1446	1446-1451	1451-1456	1456-1461	1461-1466	1466-1471	1471-1476	1476-1481	1481-1486	1486-1491	1491-1496	1496-1501	1501-1506	1506-1511	1511-1516	1516-1521	1521-1526	1526-1531	1531-1536	1536-1541	1541-1546	1546-1551	1551-1556	1556-1561	1561-1566	1566-1571	1571-1576	1576-1581	1581-1586	1586-1591	1591-1596	1596-1601	1601-1606	1606-1611	1611-1616	1616-1621	1621-1626	1626-1631	1631-1636	1636-1641	1641-1646	1646-1651	1651-1656	1656-1661	1661-1666	1666-1671	1671-1676	1676-1681	1681-1686	1686-1691	1691-1696	1696-1701	1701-1706	1706-1711	1711-1716	1716-1721	1721-1726	1726-1731	1731-1736	1736-1741	1741-1746	1746-1751	1751-1756	1756-1761	1761-1766	1766-1771	1771-1776	1776-1781	1781-1786	1786-1791	1791-1796	1796-1801	1801-1806	1806-1811	1811-1816	1816-1821	1821-1826	1826-1831	1831-1836	1836-1841	1841-1846	1846-1851	1851-1856	1856-1861	1861-1866	1866-1871	1871-1876	1876-1881	1881-1886	1886-1891	1891-1896	1896-1901	1901-1906	1906-1911	1911-1916	1916-1921	1921-1926	1926-1931	1931-1936	1936-1941	1941-1946	1946-1951	1951-1956	1956-1961	1961-1966	1966-1971	1971-1976	1976-1981	1981-1986	1986-1991	1991-1996	1996-2001	2001-2006	2006-2011	2011-2016	2016-2021	2021-2026	2026-2031	2031-2036	2036-2041	2041-2046	2046-2051	2051-2056	2056-2061	2061-2066	2066-2071	2071-2076	2076-2081	2081-2086	2086-2091	2091-2096	2096-2101	2101-2106	2106-2111	2111-2116	2116-2121	2121-2126	2126-2131	2131-2136	2136-2141	2141-2146	2146-2151	2151-2156	2156-2161	2161-2166	2166-2171	2171-2176	2176-2181	2181-2186	2186-2191	2191-2196	2196-2201	2201-2206	2206-2211	2211-2216	2216-2221	2221-2226	2226-2231	2231-2236	2236-2241	2241-2246	2246-2251	2251-2256	2256-2261	2261-2266	2266-2271	2271-2276	2276-2281	2281-2286	2286-2291	2291-2296	2296-2301	2301-2306	2306-2311	2311-2316	2316-2321	2321-2326	2326-2331	2331-2336	2336-2341	2341-2346	2346-2351	2351-2356	2356-2361	2361-2366	2366-2371	2371-2376	2376-2381	2381-2386	2386-2391	2391-2396	2396-2401	2401-2406	2406-2411	2411-2416	2416-2421	2421-2426	2426-2431	2431-2436	2436-2441	2441-2446	2446-2451	2451-2456	2456-2461	2461-2466	2466-2471	2471-2476	2476-2481	2481-2486	2486-2491	2491-2496	2496-2501	2501-2506	2506-2511	2511-2516	2516-2521	2521-2526	2526-2531	2531-2536	2536-2541	2541-2546	2546-2551	2551-2556	2556-2561	2561-2566	2566-2571	2571-2576	2576-2581	2581-2586	2586-2591	2591-2596	2596-2601	2601-2606	2606-2611	2611-2616	2616-2621	2621-2626	2626-2631	2631-2636	2636-2641	2641-2646	2646-2651	2651-2656	2656-2661	2661-2666	2666-2671	2671-2676	2676-2681	2681-2686	2686-2691	2691-2696	2696-2701	2701-2706	2706-2711	2711-2716	2716-2721	2721-2726	2726-2731	2731-2736	2736-2741	2741-2746	2746-2751	2751-2756	2756-2761	2761-2766	2766-2771	2771-2776	2776-2781	2781-2786	2786-2791	2791-2796	2796-2801	2801-2806	2806-2811	2811-2816	2816-2821	2821-2826	2826-2831	2831-2836	2836-2841	2841-2846	2846-2851	2851-2856	2856-2861	2861-2866	2866-2871	2871-2876	2876-2881	2881-2886	2886-2891	2891-2896	2896-2901	2901-2906	2906-2911	2911-2916	2916-2921	2921-2926	2926-2931	2931-2936	2936-2941	2941-2946	2946-2951	2951-2956	2956-2961	2961-2966	2966-2971	2971-2976	2976-2981	2981-2986	2986-2991	2991-2996	2996-3001	3001-3006	3006-3011	3011-3016	3016-3021	3021-3026	3026-3031	3031-3036	3036-3041	3041-3046	3046-3051	3051-3056	3056-3061	3061-3066	3066-3071	3071-3076	3076-3081	3081-3086	3086-3091	3091-3096	3096-3101	3101-3106	3106-3111	3111-3116	3116-3121	3121-3126	3126-3131	3131-3136	3136-3141	3141-3146	3146-3151	3151-3156	3156-3161	3161-3166	3166-3171	3171-3176	3176-3181	3181-3186	3186-3191	3191-3196	3196-3201	3201-3206	3206-3211	3211-3216	3216-3221	3221-3226	3226-3231	3231-3236	3236-3241	3241-3246	3246-3251	3251-3256	3256-3261	3261-3266	3266-3271	3271-3276	3276-3281	3281-3286	3286-3291	3291-3296	3296-3301	3301-3306	3306-3311	3311-3316	3316-3321	3321-3326	3326-3331	3331-3336	3336-3341	3341-3346	3346-3351	3351-3356	3356-3361	3361-3366	3366-3371	3371-3376	3376-3381	3381-3386	3386-3391	3391-3396	3396-3401	3401-3406	3406-3411	3411-3416	3416-3421	3421-3426	3426-3431	3431-3436	3436-3441	3441-3446	3446-3451	3451-3456	3456-3461	3461-3466	3466-3471	3471-3476	3476-3481	3481-3486	3486-3491	3491-3496	3496-3501	3501-3506	3506-3511	3511-3516	3516-3521	3521-3526	3526-3531	3531-3536	3536-3541	3541-3546	3546-3551	3551-3556	3556-3561	3561-3566	3566-3571	3571-3576	3576-3581	3581-3586	3586-3591	3591-3596	3596-3601	3601-3606	3606-3611	3611-3616	3616-3621	3621-3626	3626-3631	3631-3636	3636-3641	3641-3646	3646-3651	3651-3656	3656-3661	3661-3666	3666-3671	3671-3676	3676-3681	3681-3686	3686-3691	3691-3696	3696-3701	3701-3706	3706-3711	3711-3716	3716-3721	3721-3726	3726-3731	3731-3736	3736-3741	3741-3746	3746-3751	3751-3756	3756-3761	3761-3766	3766-3771	3771-3776	3776-3781	3781-3786	3786-3791	3791-3796	3796-3801	3801-3806	3806-3811	3811-3816	3816-3821	3821-3826	3826-3831	3831-3836	3836-3841	3841-3846	3846-3851	3851-3856	3856-3861	3861-3866	3866-3871	3871-3876	3876-3881	3881-3886	3886-3891	3891-3896	3896-3901	3901-3906	3906-3911	3911-3916	3916-3921	3921-3926	3926-3931	3931-3936	3936-3941	3941-3946	3946-3951	3951-3956	3956-3961	3961-3966	3966-3971	3971-3976	3976-3981	3981-3986	3986-3991	3991-3996	3996-4001	4001-4006	4006-4011	4011-4016	4016-4021	4021-4026	4026-4031	4031-4036	4036-4041	4041-4046	4046-4051	4051-4056	4056-4061	4061-4066	4066-4071	4071-4076	4076-4081	4081-4086	4086-4091	4091-4096	4096-4101	4101-4106	4106-4111	4111-4116	4116-4121	4121-4126	4126-4131	4

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

FROM 1/ 1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS = 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<2	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
N	0	0	0	0	0	5	0	0	0	0	0	0	0	5
NNE	0	0	0	0	2	1	1	0	0	0	0	0	0	4
NE	0	0	0	0	2	1	0	0	0	0	0	0	0	3
ENE	0	0	0	0	1	1	0	0	0	0	0	0	0	2
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	1	0	0	0	0	0	0	0	0	1
SE	0	0	0	0	2	0	0	0	0	0	0	0	0	2
SSE	0	0	0	0	0	1	1	0	0	0	0	0	0	2
S	0	0	0	0	0	0	3	0	0	0	0	0	0	3
SSW	0	0	0	0	0	4	3	2	0	0	0	0	0	6
SW	0	0	0	0	0	1	2	0	0	0	0	0	0	3
WSW	0	0	0	0	0	1	1	0	0	0	0	0	0	2
W	0	0	0	0	1	2	1	0	0	0	0	0	0	4
WNW	0	0	0	0	0	1	0	0	0	0	0	0	0	1
NW	0	0	0	0	0	0	2	1	0	0	0	0	0	3
NNW	0	0	0	0	0	2	3	1	0	0	0	0	0	6
TOTAL	0	0	0	0	9	12	22	4	0	0	0	0	0	47

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 47

TOTAL HOURS FOR THE PERIOD: 47

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS D

FROM 1/ 1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.22-.51	.51-.76	.76-1.1	1.1-1.6	1.6-2.1	2.1-3.1	3.1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1-16.1	16.1-21.0	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0			
N	0	0	1	10	15	57	53	0	0	0	0	0	0	136
HNE	0	0	3	8	23	61	7	0	0	0	0	0	0	102
NE	0	0	0	3	13	15	1	0	0	0	0	0	0	32
ENE	0	1	0	9	4	6	14	0	0	0	0	0	0	34
E	0	1	2	7	6	4	1	0	0	0	0	0	0	21
ESE	0	0	1	6	11	5	0	0	0	0	0	0	0	23
SE	0	0	0	8	17	21	2	1	0	0	0	0	0	49
BSE	0	0	1	6	2	15	63	37	0	0	0	0	0	104
S	0	1	0	1	4	19	29	9	0	0	0	0	0	63
SSW	0	0	0	6	9	24	23	6	0	0	0	0	0	68
SW	0	0	0	2	10	9	10	0	0	0	0	0	0	30
WSW	0	0	0	6	8	8	0	0	0	0	0	0	0	22
W	0	0	3	6	4	9	2	0	0	0	0	0	0	24
WNW	0	0	0	5	6	12	7	1	0	0	0	0	0	31
NW	0	0	0	8	12	18	12	1	0	0	0	0	0	48
NNW	0	0	0	1	8	35	52	6	0	0	0	0	0	102
TOTAL	0	3	11	89	152	317	276	41	0	0	0	0	0	889

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 889

TOTAL HOURS FOR THE PERIOD: 889

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS E

FROM 1/1/91 0100 TO 3/31/91 23100

PRIMARY CENSORS ~ 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.22-.51	.51-.76	.76-1.1	1.1-1.6	1.6-2.1	2.1-3.1	3.1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1-16.1	16.1-19.1	19.1-20.1
N	0	1	4	6	2	15	1	0	0	0	0	0	0	34
NNE	1	1	1	15	12	12	1	0	0	0	0	0	0	43
NE	0	1	1	4	15	12	4	0	0	0	6	0	0	37
ENE	0	0	1	6	7	6	10	0	0	0	0	0	0	30
E	0	2	2	7	4	7	1	0	0	0	0	0	0	23
ESE	0	1	2	7	12	17	9	0	0	0	0	0	0	48
SE	0	1	7	13	26	32	9	0	0	0	0	0	0	88
SSE	0	1	1	3	6	14	12	0	0	0	0	0	0	37
S	0	0	0	0	0	14	10	0	0	0	0	0	0	24
SSW	0	0	1	2	4	6	9	1	0	0	0	0	0	23
SW	0	2	1	4	2	7	4	0	0	0	0	0	0	20
WSW	0	0	1	4	2	3	0	0	0	0	0	0	0	10
W	0	2	2	10	1	0	0	0	0	0	0	0	0	20
WNW	0	3	6	12	4	4	3	0	0	0	0	0	0	30
NW	0	3	4	0	0	11	6	0	0	0	0	0	0	40
NNW	0	4	3	4	5	12	2	1	0	0	0	0	0	31
TOTAL	1	22	42	105	115	172	79	2	0	0	0	0	0	538

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 19

NUMBER OF VALID HOURS: 538

TOTAL HOURS FOR THE PERIOD: 557

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS F

FROM 1/ 1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS ~ 30 FOOT

WIND SPEED (METERS/SECOND)

	< .22	.22- .51	.51- .76	.76- 1.1	1.1- 1.6	1.6- 2.1	2.1- 3.1	3.1- 5.1	5.1- 7.1	7.1- 10.1	10.1- 13.1	13.1- >18	>18	TOT.
DIR	,50	,75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0			
N	3	4	3	3	4	0	0	0	0	0	0	0	0	17
NNE	0	2	2	5	3	0	0	0	0	0	0	0	0	12
NE	0	4	0	5	1	1	0	0	0	0	0	0	0	6
ENE	0	0	5	5	2	1	0	0	0	0	0	0	0	13
E	0	3	2	2	0	0	0	0	0	0	0	0	0	7
ESE	0	0	2	0	1	1	0	0	0	0	0	0	0	4
SE	1	2	0	5	0	0	0	0	0	0	0	0	0	8
SSE	1	1	0	0	0	1	0	0	0	0	0	0	0	3
S	0	0	1	1	3	0	0	0	0	0	0	0	0	5
SSW	0	1	1	1	0	0	0	0	0	0	0	0	0	3
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	3	1	0	0	0	0	0	0	0	0	0	4
W	0	1	5	0	0	0	0	0	0	0	0	0	0	6
WNW	1	3	3	9	1	0	0	0	0	0	0	0	0	17
NW	0	2	3	0	4	0	0	0	0	0	0	0	0	17
NNW	2	2	2	4	1	0	0	0	0	0	0	0	0	11
TOTAL	8	22	32	49	20	4	0	0	0	0	0	0	0	135

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 135

TOTAL HOURS FOR THE PERIOD: 135

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS 0

FROM 1/1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS ~ 30 FOOT

WIND SPEED (METERS/SECOND)

	<2.2	2.2-5.1	5.1-7.6	7.6-11.1	11.1-13.6	13.6-21.4	21.4-29.0	29.0-37.5	37.5-46.0	46.0-54.5	54.5-63.0	63.0-71.5	71.5-80.0	80.0-88.5	88.5-97.0	97.0-105.5	>105.5	TOT.
DIR	50	75	10	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0							
N	4	10	4	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
NNE	1	0	2	9	0	0	0	0	0	0	0	0	0	0	0	0	12	
NE	2	10	0	3	2	0	0	0	0	0	0	0	0	0	0	0	22	
ENE	12	22	13	2	1	0	0	0	0	0	0	0	0	0	0	0	50	
E	6	13	6	1	0	0	0	0	0	0	0	0	0	0	0	0	26	
ESE	4	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
SE	2	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	8	
SSE	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
S	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
SSW	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
SW	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
WSW	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
W	2	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
WNW	1	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
NW	4	11	2	3	0	0	0	0	0	0	0	0	0	0	0	0	20	
NNW	2	6	3	0	1	0	0	0	0	0	0	0	0	0	0	0	12	
TOTAL	52	99	42	18	6	0	0	0	0	0	0	0	0	0	0	0	217	

NUMBER OF CALMS: 7

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 224

TOTAL HOURS FOR THE PERIOD: 224

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 ALL STABILITY CLASSED

FROM 1/1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS - 150 FOOT

MIND SPEED (METERS/SECOND)

WIND DIR	<22°	22-31°	31-76°	76-111°	111-136°	136-200°	200-231°	231-260°	260-310°	310-340°	340-360°	360-390°	390-420°	420-450°	450-480°	480-510°	510-540°	540-570°	570-600°	600-630°	630-660°	660-700°	700-740°	740-780°	780-820°	820-860°	860-900°	900-940°	940-980°	980-1020°	1020-1060°	1060-1100°	1100-1140°	1140-1180°	1180-1220°	1220-1260°	1260-1300°	1300-1340°	1340-1380°	1380-1420°	1420-1460°	1460-1500°	1500-1540°	1540-1580°	1580-1620°	1620-1660°	1660-1700°	1700-1740°	1740-1780°	1780-1820°	1820-1860°	1860-1900°	1900-1940°	1940-1980°	1980-2020°	2020-2060°	2060-2100°	2100-2140°	2140-2180°	2180-2220°	2220-2260°	2260-2300°	2300-2340°	2340-2380°	2380-2420°	2420-2460°	2460-2500°	2500-2540°	2540-2580°	2580-2620°	2620-2660°	2660-2700°	2700-2740°	2740-2780°	2780-2820°	2820-2860°	2860-2900°	2900-2940°	2940-2980°	2980-3020°	3020-3060°	3060-3100°	3100-3140°	3140-3180°	3180-3220°	3220-3260°	3260-3300°	3300-3340°	3340-3380°	3380-3420°	3420-3460°	3460-3500°	3500-3540°	3540-3580°	3580-3620°	3620-3660°	3660-3700°	3700-3740°	3740-3780°	3780-3820°	3820-3860°	3860-3900°	3900-3940°	3940-3980°	3980-4020°	4020-4060°	4060-4100°	4100-4140°	4140-4180°	4180-4220°	4220-4260°	4260-4300°	4300-4340°	4340-4380°	4380-4420°	4420-4460°	4460-4500°	4500-4540°	4540-4580°	4580-4620°	4620-4660°	4660-4700°	4700-4740°	4740-4780°	4780-4820°	4820-4860°	4860-4900°	4900-4940°	4940-4980°	4980-5020°	5020-5060°	5060-5100°	5100-5140°	5140-5180°	5180-5220°	5220-5260°	5260-5300°	5300-5340°	5340-5380°	5380-5420°	5420-5460°	5460-5500°	5500-5540°	5540-5580°	5580-5620°	5620-5660°	5660-5700°	5700-5740°	5740-5780°	5780-5820°	5820-5860°	5860-5900°	5900-5940°	5940-5980°	5980-6020°	6020-6060°	6060-6100°	6100-6140°	6140-6180°	6180-6220°	6220-6260°	6260-6300°	6300-6340°	6340-6380°	6380-6420°	6420-6460°	6460-6500°	6500-6540°	6540-6580°	6580-6620°	6620-6660°	6660-6700°	6700-6740°	6740-6780°	6780-6820°	6820-6860°	6860-6900°	6900-6940°	6940-6980°	6980-7020°	7020-7060°	7060-7100°	7100-7140°	7140-7180°	7180-7220°	7220-7260°	7260-7300°	7300-7340°	7340-7380°	7380-7420°	7420-7460°	7460-7500°	7500-7540°	7540-7580°	7580-7620°	7620-7660°	7660-7700°	7700-7740°	7740-7780°	7780-7820°	7820-7860°	7860-7900°	7900-7940°	7940-7980°	7980-8020°	8020-8060°	8060-8100°	8100-8140°	8140-8180°	8180-8220°	8220-8260°	8260-8300°	8300-8340°	8340-8380°	8380-8420°	8420-8460°	8460-8500°	8500-8540°	8540-8580°	8580-8620°	8620-8660°	8660-8700°	8700-8740°	8740-8780°	8780-8820°	8820-8860°	8860-8900°	8900-8940°	8940-8980°	8980-9020°	9020-9060°	9060-9100°	9100-9140°	9140-9180°	9180-9220°	9220-9260°	9260-9300°	9300-9340°	9340-9380°	9380-9420°	9420-9460°	9460-9500°	9500-9540°	9540-9580°	9580-9620°	9620-9660°	9660-9700°	9700-9740°	9740-9780°	9780-9820°	9820-9860°	9860-9900°	9900-9940°	9940-9980°	9980-10020°	10020-10060°	10060-10100°	10100-10140°	10140-10180°	10180-10220°	10220-10260°	10260-10300°	10300-10340°	10340-10380°	10380-10420°	10420-10460°	10460-10500°	10500-10540°	10540-10580°	10580-10620°	10620-10660°	10660-10700°	10700-10740°	10740-10780°	10780-10820°	10820-10860°	10860-10900°	10900-10940°	10940-10980°	10980-11020°	11020-11060°	11060-11100°	11100-11140°	11140-11180°	11180-11220°	11220-11260°	11260-11300°	11300-11340°	11340-11380°	11380-11420°	11420-11460°	11460-11500°	11500-11540°	11540-11580°	11580-11620°	11620-11660°	11660-11700°	11700-11740°	11740-11780°	11780-11820°	11820-11860°	11860-11900°	11900-11940°	11940-11980°	11980-12020°	12020-12060°	12060-12100°	12100-12140°	12140-12180°	12180-12220°	12220-12260°	12260-12300°	12300-12340°	12340-12380°	12380-12420°	12420-12460°	12460-12500°	12500-12540°	12540-12580°	12580-12620°	12620-12660°	12660-12700°	12700-12740°	12740-12780°	12780-12820°	12820-12860°	12860-12900°	12900-12940°	12940-12980°	12980-13020°	13020-13060°	13060-13100°	13100-13140°	13140-13180°	13180-13220°	13220-13260°	13260-13300°	13300-13340°	13340-13380°	13380-13420°	13420-13460°	13460-13500°	13500-13540°	13540-13580°	13580-13620°	13620-13660°	13660-13700°	13700-13740°	13740-13780°	13780-13820°	13820-13860°	13860-13900°	13900-13940°	13940-13980°	13980-14020°	14020-14060°	14060-14100°	14100-14140°	14140-14180°	14180-14220°	14220-14260°	14260-14300°	14300-14340°	14340-14380°	14380-14420°	14420-14460°	14460-14500°	14500-14540°	14540-14580°	14580-14620°	14620-14660°	14660-14700°	14700-14740°	14740-14780°	14780-14820°	14820-14860°	14860-14900°	14900-14940°	14940-14980°	14980-15020°	15020-15060°	15060-15100°	15100-15140°	15140-15180°	15180-15220°	15220-15260°	15260-15300°	15300-15340°	15340-15380°	15380-15420°	15420-15460°	15460-15500°	15500-15540°	15540-15580°	15580-15620°	15620-15660°	15660-15700°	15700-15740°	15740-15780°	15780-15820°	15820-15860°	15860-15900°	15900-15940°	15940-15980°	15980-16020°	16020-16060°	16060-16100°	16100-16140°	16140-16180°	16180-16220°	16220-16260°	16260-16300°	16300-16340°	16340-16380°	16380-16420°	16420-16460°	16460-16500°	16500-16540°	16540-16580°	16580-16620°	16620-16660°	16660-16700°	16700-16740°	16740-16780°	16780-16820°	16820-16860°	16860-16900°	16900-16940°	16940-16980°	16980-17020°	17020-17060°	17060-17100°	17100-17140°	17140-17180°	17180-17220°	17220-17260°	17260-17300°	17300-17340°	17340-17380°	17380-17420°	17420-17460°	17460-17500°	17500-17540°	17540-17580°	17580-17620°	17620-17660°	17660-17700°	17700-17740°	17740-17780°	17780-17820°	17820-17860°	17860-17900°	17900-17940°	17940-17980°	17980-18020°	18020-18060°	18060-18100°	18100-18140°	18140-18180°	18180-18220°	18220-18260°	18260-18300°	18300-18340°	18340-18380°	18380-18420°	18420-18460°	18460-18500°	18500-18540°	18540-18580°	18580-18620°	18620-18660°	18660-18700°	18700-18740°	18740-18780°	18780-18820°	18820-18860°	18860-18900°	18900-18940°	18940-18980°	18980-19020°	19020-19060°	19060-19100°	19100-19140°	19140-19180°	19180-19220°	19220-19260°	19260-19300°	19300-19340°	19340-19380°	19380-19420°	19420-19460°	19460-19500°	19500-19540°	19540-19580°	19580-19620°	19620-19660°	19660-19700°	19700-19740°	19740-19780°	19780-19820°	19820-19860°	19860-19900°	19900-19940°	19940-19980°	19980-20020°	20020-20060°	20060-20100°	20100-20140°	20140-20180°	20180-20220°	20220-20260°	20260-20300°	20300-20340°	20340-20380°	20380-20420°	20420-20460°	20460-20500°	20500-20540°	20540-20580°	20580-20620°	20620-20660°	20660-20700°	20700-20740°	20740-20780°	20780-20820°	20820-20860°	20860-20900°	20900-20940°	20940-20980°	20980-21020°	21020-21060°	21060-21100°	21100-21140°	21140-21180°	21180-21220°	21220-21260°	21260-21300°	21300-21340°	21340-21380°	21380-21420°	21420-21460°	21460-21500°	21500-21540°	21540-21580°	21580-21620°	21620-21660°	21660-21700°	21700-21740°	21740-21780°	21780-21820°	21820-21860°	21860-21900°	21900-21940°	21940-21980°	21980-22020°	22020-22060°	22060-22100°	22100-22140°	22140-22180°	22180-22220°	22220-22260°	22260-22300°	22300-22340°	22340-22380°	22380-22420°	22420-22460°	22460-22500°	22500-22540°	22540-22580°	22580-22620°	22620-22660°	22660-22700°	22700-22740°	22740-22780°	22780-22820°	22820-22860°	22860-22900°	22900-22940°	22940-22980°	22980-23020°	23020-23060°	23060-23100°	23100-23140°	23140-23180°	23180-23220°	23220-23260°	23260-23300°	23300-23340°	23340-23380°	23380-23420°	23420-23460°	23460-23500°	23500-23540°	23540-23580°	23580-23620°	23620-23660°	23660-23700°	23700-23740°	23740-23780°	23780-23820°	23820-23860°	23860-23900°	23900-23940°	23940-23980°	23980-24020°	24020-24060°	24060-24100°	24100-24140°	24140-24180°	24180-24220°	24220-24260°	24260-24300°	24300-24340°	24340-24380°	24380-24420°	24420-24460°	24460-24500°	24500-24540°	24540-24580°	24580-24620°	24620-24660°	24660-24700°	24700-24740°	24740-24780°	24780-24820°	24820-24860°	24860-24900°	24900-24940°	24940-24980°	24980-25020°	25020-25060°	25060-25100°	25100-25140°	25140-25180°	25180-25220°	25220-25260°	25260-25300°	25300-25340°	25340-25380°	25380-25420°	25420-25460°	25460-25500°	25500-25540°	25540-25580°	25580-25620°	25620-25660°	25660-25700°	25700-25740°	25740-25780°	25780-25820°	25820-25860°	25860-25900°	25900-25940°	25940-25980°	25980-26020°	26020-26060°	26060-26100°	26100-26140°	26140-26180°	26180-26220°	26220-26260°	26260-26300°	26300-26340°	26340-26380°	26380-26420°	26420-26460°	26460-26500°	26500-26540°	26540-26580°	26580-26620°	26620-26660°	26660-26700°	26700-26740°	26740-26780°	26780-26820°	26820-26860°	26860-26900°	26900-26940°	26940-26980°	26980-27020°	27020-27060°	27060-

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

FROM 1/ 1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS = 150 FOOT

WIND SPEED (METERS/SECONDS)

	<2.0	.22-.51	.76-	1.1-	1.5-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>16	TOT.
DIR	0	0	0	0	0	0	0	0	0	0	0	0	0
N	0	0	0	0	0	0	2	1	0	0	0	0	3
HNE	0	0	0	0	0	0	5	12	2	0	0	0	19
NE	0	0	0	0	0	0	0	13	4	0	0	0	19
ENE	0	0	0	0	1	4	10	4	0	0	0	0	19
E	0	0	0	0	1	3	5	0	0	0	0	0	9
ESE	0	0	0	0	1	5	16	3	1	0	0	0	26
SE	0	0	0	0	1	2	9	1	0	0	0	0	13
SSE	0	0	0	0	0	0	14	3	0	0	0	0	17
S	0	0	0	0	0	1	4	4	1	0	0	0	10
SSW	0	0	0	0	0	0	3	0	1	0	0	0	4
SW	0	0	0	0	0	0	0	1	0	0	0	0	1
WSW	0	0	0	0	0	0	2	0	0	0	0	0	2
W	0	0	0	0	0	0	3	0	0	0	0	0	3
WNW	0	0	0	0	0	0	1	0	0	0	0	0	1
NW	0	0	0	0	0	0	0	2	0	0	0	0	2
NNW	0	0	0	0	0	1	2	0	1	0	0	0	4
TOTAL	0	0	0	0	4	23	96	25	4	0	0	0	152

NUMBER OF CALMS1 0

NUMBER OF INVALID HOURS1 0

NUMBER OF VALID HOURS1 152

TOTAL HOURS FOR THE PERIOD1 152

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

FROM 1/ 1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS = 150 FOOT

WIND SPEED (METERS/SECOND)

	<22	.51	.76	1.1	1.6	2.1	3.1	4.1	7.1	10.1	13.1	>10 TOT.
DIR	30	75	1.0	1.5	2.9	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	0	0	0	1	2	2	1	0	0	0
NNE	0	0	0	0	1	0	5	1	0	0	0	2
NE	0	0	0	0	1	1	3	1	0	0	0	6
ENE	0	0	0	0	0	1	4	1	0	0	0	6
E	0	0	0	0	0	0	1	0	0	0	0	4
ESE	0	0	0	0	0	1	2	1	1	0	0	5
SE	0	0	0	0	0	2	2	0	0	0	0	4
SSE	0	0	0	0	0	2	3	4	0	0	0	9
S	0	0	0	0	0	2	3	3	2	0	0	10
SSW	0	0	0	0	0	0	2	3	3	0	0	8
SW	0	0	0	0	0	0	0	0	0	0	0	3
WSW	0	0	0	0	0	0	1	0	0	0	0	2
W	0	0	0	0	0	1	0	1	0	0	0	10
WNW	0	0	0	0	0	1	1	2	0	0	0	4
NW	0	0	0	0	0	0	2	3	0	0	0	5
NNW	0	0	0	0	0	0	1	4	2	0	0	7
TOTAL	0	0	0	0	2	12	41	29	9	0	0	93

NUMBER OF CALMS1 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS1 93

TOTAL HOURS FOR THE PERIOD1 93

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS C

FROM 1/1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

	<2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1-9.0	9.1-10.0	10.1-11.0	11.1-12.0	12.1-13.0	13.1-14.0	>14.0	Total
WIND DIR	,22- ,51- ,76- 1.1- 1.6- 2.1- 3.1- 5.1- 7.1- 10.1- 13.1- >10	,50- ,75- 1.0- 1.5- 2.0- 3.0- 5.0- 7.0- 10.0- 13.0- 18.0-													
N	0	0	0	0	0	4	1	0	0	0	0	0	0	5	
NNE	0	0	0	0	0	3	1	0	0	0	0	0	0	4	
NE	0	0	0	0	0	1	2	0	0	0	0	0	0	3	
ENE	0	0	0	0	0	1	1	0	0	0	0	0	0	2	
E	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
ESE	0	0	0	0	0	1	1	0	0	0	0	0	0	2	
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSE	0	0	0	0	0	0	2	0	0	0	0	0	0	2	
S	0	0	0	0	0	1	1	1	0	0	0	0	0	3	
SSW	0	0	0	0	0	0	1	2	2	0	0	0	0	5	
SW	0	0	0	0	0	0	3	1	0	0	0	0	0	4	
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	0	0	0	0	0	1	5	0	0	0	0	0	0	6	
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NW	0	0	0	0	0	2	1	0	0	0	0	0	0	3	
NNW	0	0	0	0	0	5	1	1	0	0	0	0	0	7	
TOTAL	0	0	0	0	0	29	7	3	0	0	0	0	0	47	

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 47

TOTAL HOURS FOR THE PERIOD: 47

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS D

FROM 1/1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

	<3.2	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	11.0	13.0	
N	0	0	0	1	5	15	80	24	0	0	0	0
NNE	0	0	0	3	0	24	72	2	0	0	0	109
NE	0	0	0	1	0	13	32	1	0	0	0	47
ENE	0	0	0	1	3	3	10	11	2	0	0	20
E	0	0	0	7	3	7	4	6	2	0	0	29
ESE	0	0	1	1	0	5	23	10	1	0	0	41
SE	0	0	0	0	0	6	19	4	5	0	0	56
SSE	0	0	1	0	3	2	34	36	10	0	0	86
S	0	0	0	3	1	4	20	21	1	0	0	69
SSW	0	0	0	1	4	32	20	9	5	0	0	59
SW	0	0	0	0	5	4	14	9	1	0	0	33
WSW	0	0	1	4	3	18	5	0	0	0	0	26
W	0	0	0	0	2	13	10	2	0	0	0	27
NNW	0	0	1	1	2	6	18	1	1	0	0	32
NW	0	0	0	0	4	12	24	5	1	0	0	43
NNW	0	0	0	0	3	12	44	28	3	0	0	90
TOTAL	0	0	4	23	45	153	463	167	32	0	0	889

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 889

TOTAL HOURS FOR THE PERIOD: 889

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

FROM 1/1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

	<2	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	16.1-	19.1-	20.1-
WIND DIR	0-90	79-100	101-130	131-200	201-310	311-500	501-700	701-1000	1001-1300	1301-1600	1601-1900	1901-2000	2001-2100	2101-2200
N	0	1	1	3	1	15	14	1	0	0	0	0	0	36
NNE	0	0	0	0	2	9	23	0	0	0	0	0	0	34
NE	1	0	0	1	1	5	20	6	0	0	0	0	0	42
ENE	0	0	0	0	1	7	18	15	1	0	0	0	0	42
E	0	0	0	0	0	6	3	10	2	0	0	0	0	21
ESE	0	0	1	1	3	6	33	29	14	0	0	0	0	87
SE	0	0	0	0	2	6	33	8	3	0	0	0	0	52
SSE	0	0	0	0	0	3	22	7	0	0	0	0	0	32
S	0	0	0	0	2	1	33	7	0	0	0	0	0	43
SSW	0	0	0	0	0	2	8	9	2	0	0	0	0	23
SW	0	0	0	0	0	2	7	2	0	0	0	0	0	11
WSW	0	0	0	2	2	4	6	0	0	0	0	0	0	21
W	0	1	1	1	3	9	8	0	0	0	0	0	0	23
NNW	0	2	0	3	2	7	11	2	1	0	0	0	0	28
NW	0	3	5	1	1	6	16	5	0	0	0	0	0	37
NNW	0	1	1	1	0	5	14	2	1	0	0	0	0	25
TOTAL	1	8	9	13	22	98	279	102	14	0	0	0	0	557

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 557

TOTAL HOURS FOR THE PERIOD: 557

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

FROM 1/1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS = 150 / 07

WIND SPEED (METERS/SEC)

	<2.2	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>16	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	16.0		
N	1	4	0	1	1	6	6	0	0	0	0	0	19
NNE	2	1	0	0	1	4	4	0	0	0	0	0	12
NE	0	0	0	1	0	3	7	0	0	0	0	0	11
ENE	0	0	0	0	0	3	9	4	0	0	0	0	16
E	0	0	0	1	0	6	2	0	0	0	0	0	9
ESE	0	0	0	1	0	4	3	2	0	0	0	0	7
SE	0	0	0	0	0	3	2	0	0	0	0	0	5
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	5	4	0	0	0	0	0	9
SSW	0	0	0	0	0	1	0	0	0	0	0	0	1
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	3	0	0	0	0	0	0	3
W	0	0	0	0	2	2	2	0	0	0	0	0	6
WNW	0	0	0	0	2	3	7	0	0	0	0	0	12
NW	0	0	0	1	0	6	7	0	0	0	0	0	14
NNW	0	2	0	0	1	1	7	0	0	0	0	0	11
TOTAL	3	7	0	3	7	47	60	6	0	0	0	0	135

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 135

TOTAL HOURS FOR THE PERIOD: 135

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS D

FROM 1/ 1/91 0100 TO 3/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<2.0	.51- .76	1.1- 1.6	2.1- 3.0	3.1- 5.0	5.1- 7.0	7.1- 10.0	10.1- 13.0	13.1- >16	TOT.
N	0	0	0	2	6	7	4	0	0	0
NNE	0	0	0	0	4	16	6	0	0	26
NE	0	2	0	1	0	0	16	0	0	22
ENE	0	1	0	0	0	4	6	2	0	13
E	0	0	0	1	3	3	0	0	0	7
ESE	0	0	0	0	0	5	7	0	0	12
SE	0	0	0	0	1	8	8	0	0	14
SSE	0	1	0	2	2	9	7	0	0	20
S	0	0	0	0	1	4	2	0	0	7
SSW	0	0	0	1	0	3	0	0	0	7
SW	0	0	1	0	0	9	0	0	0	11
WSW	0	0	0	1	0	9	1	0	0	13
W	0	0	0	0	0	6	0	0	0	7
WWN	0	1	0	0	0	9	2	0	0	14
NW	0	0	0	2	0	5	2	0	0	12
NNW	0	0	0	2	1	0	4	0	0	15
TOTAL	0	5	3	12	30	107	65	2	0	224

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 224

TOTAL HOURS FOR THE PERIOD: 224

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 ALL STABILITY CLASSES

FROM 4/ 1/91 0100 TO 6/30/91 23100

PRIMARY SENSORS = 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>1H TOT.
	50	75	1.0	1.5	2.0	3.0	5.0	7.0	10+0	13.0	18.0	
N	10	11	18	16	10	3	0	0	0	0	0	73
NNE	5	7	11	32	27	12	0	0	0	0	0	95
NE	12	6	11	30	30	48	0	0	0	0	0	137
ENE	14	11	17	20	22	39	6	0	0	0	0	139
E	7	35	8	20	37	14	2	0	0	0	0	96
ESE	10	19	25	39	58	19	0	0	0	0	0	170
SE	6	19	24	108	101	83	10	1	0	0	0	356
SSE	5	35	11	46	50	31	92	10	0	0	0	404
S	6	38	8	12	24	29	56	41	2	0	0	170
SSE	1	35	6	22	14	29	8	0	0	0	0	82
SWE	6	35	6	20	18	7	0	0	0	0	0	63
SW	7	35	6	16	11	2	2	1	0	0	0	58
W	9	6	4	14	16	14	0	0	0	0	0	63
WNW	10	6	5	10	13	13	0	0	0	0	0	66
NW	10	9	8	12	6	2	0	0	0	0	0	56
NNW	7	7	10	12	11	17	11	0	0	0	0	80
TOTAL	131	138	174	458	459	456	175	11	0	0	0	4995

NUMBER OF CALMS: 18

NUMBER OF INVALID HOURS: 161

NUMBER OF VALID HOURS: 2023

TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS A

FROM 4/ 1/91 0100 TO 6/30/91 2300

PRIMARY SENSORS = 30 FOOT

WIND SPEED (METERS/SECOND)

WINO	.22+	.51+	.76+	1.1+	1.4+	2.1+	3.1+	5.1+	7.1+	10.1+	13.1+	>18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	16.0		
N	0	0	0	1	3	2	1	0	0	0	0	0	7
NNE	0	0	0	4	7	8	0	0	0	0	0	0	19
NE	0	0	1	5	10	10	0	0	0	0	0	0	26
ENE	0	0	1	6	7	24	6	0	0	0	0	0	44
E	0	0	0	5	13	9	1	0	0	0	0	0	20
ESE	0	0	0	10	28	11	0	0	0	0	0	0	49
SE	0	0	0	12	28	51	6	0	0	0	0	0	97
SSE	0	0	0	3	6	34	18	6	0	0	0	0	67
S	0	0	0	0	2	25	18	2	0	0	0	0	47
SSW	0	0	0	0	4	11	3	0	0	0	0	0	18
SW	0	0	0	0	4	2	0	0	0	0	0	0	6
WSW	0	0	1	1	2	3	0	0	0	0	0	0	7
W	0	0	0	3	5	7	0	0	0	0	0	0	13
WNW	0	0	0	2	3	5	0	0	0	0	0	0	10
NW	0	0	0	0	1	0	0	0	0	0	0	0	1
NNW	0	0	0	0	1	0	2	0	0	0	0	0	3
TOTAL	0	0	3	52	122	202	55	8	0	0	0	0	442

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 1

NUMBER OF VALID HOURS: 442

TOTAL HOURS FOR THE PERIOD: 443

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

FROM 4/ 1/91 0100 TO 6/30/91 23100

PRIMARY SENSORS = 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
N	0	0	0	2	0	2	0	0	0	0	0	0	4
NNE	0	0	0	1	2	0	0	0	0	0	0	0	2
NE	0	0	0	3	3	1	0	0	0	0	0	0	5
ENE	0	0	0	2	0	1	0	0	0	0	0	0	2
E	0	0	0	2	0	0	0	0	0	0	0	0	0
ESW	0	0	0	2	3	0	0	0	0	0	0	0	0
SE	0	0	0	1	3	2	0	0	0	0	0	0	6
SSE	0	0	1	2	1	1	9	1	0	0	0	0	18
S	0	0	0	0	5	8	5	0	0	0	0	0	18
SSW	0	0	0	2	2	7	2	0	0	0	0	0	13
SW	0	0	0	1	0	1	0	0	0	0	0	0	0
WSW	0	0	0	2	0	1	0	0	0	0	0	0	3
W	0	0	0	1	3	4	0	0	0	0	0	0	0
WNW	0	0	0	0	4	3	0	0	0	0	0	0	7
NW	0	0	0	1	0	2	0	0	0	0	0	0	3
NNW	0	0	0	0	0	0	5	0	0	0	0	0	5
TOTAL	0	0	1	20	26	33	21	1	0	0	0	0	102

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 1

NUMBER OF VALID HOURS: 102

TOTAL HOURS FOR THE PERIOD: 103

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS C

FROM 4/ 1/91 0100 TO 6/30/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1-9.0	9.1-10.0	10.1-11.0	11.1-12.0	12.1-13.0	13.1-14.0	14.1-15.0	15.1-16.0	16.1-17.0	17.1-18.0	18.1-19.0	19.1-20.0	20.1-21.0	21.1-22.0	22.1-23.0	23.1-24.0	24.1-25.0	25.1-26.0	26.1-27.0	27.1-28.0	28.1-29.0	29.1-30.0	TOT.
N	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
NNE	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	2	
NE	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENE	0	0	1	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	
E	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESE	0	0	1	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	
SE	0	0	0	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
SSE	0	0	0	0	1	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
S	0	0	0	0	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
SSW	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SW	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WSW	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
W	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	
WNW	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
NW	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NNW	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
TOTAL	0	0	6	8	16	17	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59		

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 59

TOTAL HOURS FOR THE PERIOD: 59

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS D

FROM 4/ 1/91 0100 TO 6/30/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22+	.51+	.76+	1.1+	1.6+	2.1+	3.1+	5.1+	7.1+	10.1+	13.1+	>16 TOT.
	,50	,75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	16.0	
N	0	1	0	4	7	3	2	0	0	0	0	17
NNE	0	0	1	6	1	3	0	0	0	0	0	14
NE	1	0	0	6	4	11	0	0	0	0	0	22
ENE	0	1	3	3	4	8	0	0	0	0	0	19
E	0	2	0	5	7	0	0	0	0	0	0	14
ESE	0	0	3	6	7	3	0	0	0	0	0	19
SE	0	0	2	11	15	7	2	0	0	0	0	37
SSE	0	1	1	11	20	26	43	1	0	0	0	103
S	0	0	2	7	6	14	14	0	0	0	0	43
SSW	0	0	0	9	4	8	1	0	0	0	0	22
SW	0	1	1	4	7	5	0	0	0	0	0	16
WSW	0	0	0	9	5	6	1	1	0	0	0	18
W	0	1	1	5	4	12	0	0	0	0	0	13
WNW	0	0	2	5	3	3	0	0	0	0	0	10
NW	0	0	2	4	4	3	0	0	0	0	0	10
NNW	0	0	0	8	0	12	2	0	0	0	0	30
TOTAL	1	7	18	98	108	108	69	2	0	0	0	107

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 107

TOTAL HOURS FOR THE PERIOD: 407

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

FROM 6/ 1/91 0100 TO 6/30/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR.	<0.0	.01-	.05-	.10-	.15-	.20-	.30-	.50-	.70-	.10.1-	.15.1-	.310 TOT.
	50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	15.0	10.0	
N	1	4	6	7	3	1	0	0	0	0	0	22
NNE	0	4	3	13	9	1	0	0	0	0	0	20
NE	0	3	2	14	9	26	0	0	0	0	0	56
ENE	0	3	3	17	8	6	0	0	0	0	0	37
E	0	4	5	7	14	5	1	0	0	0	0	38
ESE	0	10	15	12	18	5	0	0	0	0	0	68
SE	0	12	16	69	18	19	2	1	0	0	0	169
SSE	0	12	5	25	18	19	16	1	0	0	0	86
S	1	4	7	17	12	6	1	0	0	0	0	48
SSW	0	4	2	9	4	1	1	0	0	0	0	18
SW	0	4	2	10	5	3	0	0	0	0	0	21
WSW	1	4	2	1	5	1	1	0	0	0	0	12
W	3	2	3	4	6	1	0	0	0	0	0	18
WNW	3	4	1	1	2	0	0	0	0	0	0	14
NW	1	2	3	8	4	0	0	0	0	0	0	15
NNW	0	5	4	4	12	3	0	0	0	0	0	20
TOTAL	23	64	78	229	161	95	22	2	0	0	0	674

NUMBER OF CALMS: 1

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 675

TOTAL HOURS FOR THE PERIOD: 675

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

FROM 4/ 1/91 0100 TO 6/30/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.22-.51	.51-.76	.76-1.1	1.1-1.6	1.6-2.1	2.1-3.1	3.1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1->18	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	10.0		
N	3	3	2	3	1	0	0	0	0	0	0	0	12
NNE	1	1	5	7	5	0	0	0	0	0	0	0	19
NE	4	1	7	3	3	0	0	0	0	0	0	0	18
ENE	1	5	2	1	2	0	0	0	0	0	0	0	17
E	4	2	2	0	2	0	0	0	0	0	0	0	10
ESE	5	9	6	3	1	0	0	0	0	0	0	0	23
SE	3	6	5	11	6	1	0	0	0	0	0	0	32
SSE	4	4	3	3	4	0	0	0	0	0	0	0	18
S	12	3	6	0	1	0	0	0	0	0	0	0	9
SSW	0	1	3	2	0	0	0	0	0	0	0	0	5
SW	4	1	2	2	0	0	0	0	0	0	0	0	9
WSW	2	0	2	0	0	0	0	0	0	0	0	0	4
W	1	2	0	0	0	0	0	0	0	0	0	0	6
WNW	6	3	3	1	0	0	0	0	0	0	0	0	13
NW	6	3	3	2	0	0	0	0	0	0	0	0	14
NNW	2	1	3	0	0	0	0	0	0	0	0	0	10
TOTAL	54	43	56	63	25	1	0	0	0	0	0	0	220

NUMBER OF CALMS: 5

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 225

TOTAL HOURS FOR THE PERIOD: 225

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

FROM 4/ 1/91 0100 TO 6/30/91 23100

PRIMARY SENSORS ~ 30 FOOT

WIND SPEED (METERS/SECOND)

WIND	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>16	TGT
DIR	.50	.73	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	1	2	2	1	1	0	0	0	0	0	0	0	1
NNE	5	2	1	0	0	0	0	0	0	0	0	0	8
NE	5	2	0	1	0	0	0	0	0	0	0	0	9
ENE	8	4	2	0	0	0	0	0	0	0	0	0	14
E	1	0	1	1	0	0	0	0	0	0	0	0	13
ESE	0	0	1	0	0	0	0	0	0	0	0	0	3
SE	1	1	1	0	0	0	0	0	0	0	0	0	4
SSE	1	1	1	2	0	0	0	0	0	0	0	0	5
S	3	1	0	0	0	0	0	0	0	0	0	0	4
SSW	1	1	0	0	0	0	0	0	0	0	0	0	1
SW	3	1	1	2	0	0	0	0	0	0	0	0	6
WSW	4	2	1	0	0	0	0	0	0	0	0	0	7
W	1	1	0	0	0	0	0	0	0	0	0	0	3
WNW	6	2	0	0	0	0	0	0	0	0	0	0	8
NW	3	3	0	0	0	0	0	0	0	0	0	0	11
NNW	3	1	2	2	0	0	0	0	0	0	0	0	8
TOTAL	53	24	13	10	1	0	0	0	0	0	0	0	101

NUMBER OF CALMS: 12

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 113

TOTAL HOURS FOR THE PERIOD: 113

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

FROM 6/ 1/91 0100 TO 6/30/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	1	3	6	7	20	19	2	0	0	0	53
NNE	0	3	2	5	10	37	13	1	0	0	0	71
NE	0	0	4	6	9	25	42	0	0	0	0	86
ENE	0	0	0	9	12	41	95	61	0	0	0	218
E	0	2	1	16	20	29	73	15	1	0	0	147
ESE	0	0	4	18	20	62	173	33	0	0	0	310
SE	1	4	1	15	10	87	141	28	3	1	0	291
SSE	0	0	2	10	17	60	79	50	5	0	0	223
S	0	2	0	5	25	63	75	6	0	0	0	176
SSW	0	0	3	12	18	60	28	3	0	0	0	124
SW	0	1	2	11	16	34	15	0	0	0	0	79
WSW	0	0	0	10	15	18	7	0	1	0	0	51
W	0	1	2	7	15	38	10	0	0	0	0	73
WNW	0	0	2	4	6	19	7	0	0	0	0	38
NW	0	0	4	0	9	9	8	0	0	0	0	30
NNW	0	1	0	6	8	18	15	6	0	0	0	54
TOTAL	1	15	30	140	217	620	785	205	10	1	0	0 2024

NUMBER OF CALMS: 1

NUMBER OF INVALID HOURS: 159

NUMBER OF VALID HOURS: 2025

TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

FROM 4/ 1/91 0:00 TO 6/30/91 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22+	.51+	.78+	1.1+	1.6+	2.1+	3.1+	5.1+	7.1+	10.1+	13.1+	>18 TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	0	0	0	2	2	0	0	0	0	4
NNE	0	0	0	0	0	8	0	0	0	0	0	8
NE	0	0	0	0	1	12	9	0	0	0	0	22
ENE	0	0	0	0	5	14	21	19	0	0	0	59
E	0	0	0	0	2	9	25	12	0	0	0	48
ESE	0	0	0	1	3	19	42	12	0	0	0	77
SE	0	0	0	0	3	20	39	8	1	0	0	71
SSE	0	0	0	0	1	11	23	10	4	0	0	49
S	0	0	0	0	1	15	25	2	0	0	0	43
SSW	0	0	0	0	0	9	8	3	0	0	0	20
SW	0	0	0	0	0	8	3	0	0	0	0	11
WSW	0	0	0	1	0	3	0	0	0	0	0	4
W	0	0	0	0	0	10	6	0	0	0	0	16
WNW	0	0	0	1	1	5	1	0	0	0	0	8
NW	0	0	0	0	0	1	0	0	0	0	0	1
NNW	0	0	0	0	0	0	1	1	0	0	0	2
TOTAL	0	0	0	3	17	146	205	67	5	0	0	443

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 443

TOTAL HOURS FOR THE PERIOD: 443

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS B

FROM 6/ 1/91 0100 TO 6/30/91 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND	<22-	.51-	.76-	1.1-	1.5-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	1	1	0	0	0	0	0	2
NE	0	0	1	3	1	0	0	0	0	0	0	0	5
ENE	0	0	0	0	1	3	1	0	0	0	0	0	5
E	0	0	0	2	0	0	1	0	0	0	0	0	3
ESE	0	0	0	1	0	3	2	0	0	0	0	0	6
SE	0	0	0	1	0	3	1	0	0	0	0	0	9
SSE	0	0	0	1	1	1	3	5	1	0	0	0	12
S	0	0	0	0	2	5	2	2	0	0	0	0	16
SSW	0	0	0	1	1	6	4	0	0	0	0	0	12
SW	0	0	0	0	1	1	2	0	0	0	0	0	4
WSW	0	0	0	0	2	0	2	0	0	0	0	0	4
W	0	0	0	1	0	8	1	0	0	0	0	0	10
WNW	0	0	0	0	1	4	0	0	0	0	0	0	5
NW	0	0	0	0	0	0	2	0	0	0	0	0	2
NNW	0	0	0	0	2	1	1	1	0	0	0	0	8
TOTAL	0	0	0	8	13	35	33	13	1	0	0	0	103

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 103
 TOTAL HOURS FOR THE PERIOD: 103

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS C

FROM 4/ 1/91 0100 TO 6/30/91 2300

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.22-.51	.51-.76	1.1-1.6	1.6-2.1	2.1-3.1	3.1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1->18	TOT.
	,50	,75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	0	1	0	0	1	0	0	0	0	2
NNE	0	0	0	0	0	1	1	0	0	0	0	2
NE	0	0	0	0	1	1	0	0	0	0	0	2
ENE	0	0	0	1	0	1	2	0	0	0	0	4
E	0	0	0	0	0	0	1	0	0	0	0	1
ESE	0	0	0	1	0	1	2	3	0	0	0	7
SE	0	0	0	1	0	2	0	0	0	0	0	3
SSE	0	0	0	0	0	2	2	5	0	0	0	9
S	0	0	0	0	1	3	4	1	0	0	0	9
SSN	0	0	0	0	0	1	2	0	0	0	0	3
SW	0	0	0	1	0	3	0	0	0	0	0	4
WSW	0	0	0	0	0	1	0	0	0	0	0	1
W	0	0	0	0	1	0	1	0	0	0	0	2
WNW	0	0	0	0	1	2	1	0	0	0	0	4
NW	0	0	0	0	0	0	1	0	0	0	0	1
NNW	0	0	0	0	0	2	3	0	0	0	0	5
TOTAL	0	0	0	5	4	20	21	9	0	0	0	59

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 59

TOTAL HOURS FOR THE PERIOD: 59

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS D

FROM 6/ 1/91 0:00 TO 6/30/91 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.22-.51	.51-.78	.78-1.1	1.1-1.6	1.6-2.1	2.1-3.1	3.1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1->18	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	0	0	5	11	3	2	0	0	0	0	21
NNE	0	0	0	0	4	5	5	1	0	0	0	0	15
NE	0	0	2	2	1	2	3	0	0	0	0	0	10
ENE	0	0	0	2	0	4	16	14	0	0	0	0	36
E	0	0	0	4	2	4	8	1	0	0	0	0	19
ESE	0	0	0	1	3	5	16	5	0	0	0	0	30
SE	0	0	0	1	2	11	17	9	0	0	0	0	40
SSE	0	0	1	1	3	18	25	26	0	0	0	0	74
S	0	0	0	1	6	11	28	1	0	0	0	0	47
SSW	0	0	1	2	5	9	7	0	0	0	0	0	24
SW	0	0	2	2	6	6	3	0	0	0	0	0	19
WSW	0	0	0	3	7	5	0	0	1	0	0	0	16
W	0	0	0	2	6	10	1	0	0	0	0	0	19
WNW	0	0	0	1	1	2	2	0	0	0	0	0	6
NW	0	0	0	0	5	4	3	0	0	0	0	0	12
NNW	0	0	0	3	3	6	5	1	0	0	0	0	19
TOTAL	0	0	6	25	59	113	143	60	1	0	0	0	407

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 407

TOTAL HOURS FOR THE PERIOD: 407

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

FROM 4/ 1/91 0:00 TO 6/30/91 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	1	4	1	3	1	0	0	0	0	0	10
NNE	0	2	1	4	2	8	1	0	0	0	0	0	18
NE	0	0	1	1	1	5	20	0	0	0	0	0	28
ENE	0	0	0	3	5	15	40	24	0	0	0	0	87
E	0	2	1	8	7	8	24	2	1	0	0	0	53
ESE	0	0	3	6	8	28	76	12	0	0	0	0	133
SE	1	2	0	4	3	37	70	10	2	1	0	0	130
SSE	0	0	0	4	5	20	24	1	0	0	0	0	57
S	0	0	0	2	8	21	11	0	0	0	0	0	42
SSW	0	0	1	5	4	16	6	0	0	0	0	0	32
SW	0	0	0	3	4	9	6	0	0	0	0	0	22
WSW	0	0	0	4	3	6	5	0	0	0	0	0	18
W	0	1	1	3	6	2	1	0	0	0	0	0	14
WNW	0	0	1	1	2	1	2	0	0	0	0	0	7
NW	0	0	3	0	4	2	1	0	0	0	0	0	10
NNW	0	1	0	2	2	7	2	0	0	0	0	0	14
TOTAL	1	8	13	54	65	188	290	52	3	1	0	0	675

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 675

TOTAL HOURS FOR THE PERIOD: 675

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS F

FROM 4/ 1/91 0:00 TO 6/30/91 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WINO	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	1	1	1	3	6	0	0	0	0	0
NNE	0	0	0	1	0	8	3	0	0	0	0	12
NE	0	0	0	1	0	1	8	0	0	0	0	12
ENE	0	0	0	1	1	3	11	3	0	0	0	10
E	0	0	0	2	9	4	3	0	0	0	0	18
ESE	0	0	1	7	6	5	29	1	0	0	0	49
SE	0	2	0	5	2	11	10	0	0	0	0	30
SSE	0	0	0	3	3	6	0	0	0	0	0	12
S	0	1	0	2	4	5	0	0	0	0	0	12
SSW	0	0	1	2	5	11	1	0	0	0	0	20
SW	0	1	0	2	2	6	0	0	0	0	0	11
WSW	0	0	0	2	1	1	0	0	0	0	0	4
W	0	0	0	1	1	6	0	0	0	0	0	8
WNW	0	0	1	0	0	2	1	0	0	0	0	4
NW	0	0	1	0	0	1	1	0	0	0	0	3
NNW	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	0	4	9	30	35	74	73	4	0	0	0	225

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 225

TOTAL HOURS FOR THE PERIOD: 225

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

FROM 1/ 1/91 0:00 TO 6/30/91 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	1	1	0	0	1	1	0	0	0	0	0	4
NNE	0	1	1	0	4	6	2	0	0	0	0	0	14
NE	0	0	1	1	2	3	2	0	0	0	0	0	9
ENE	0	0	0	2	1	3	2	0	0	0	0	0	8
E	0	0	0	0	0	4	1	0	0	0	0	0	5
ESE	0	0	0	1	0	1	6	0	0	0	0	0	8
SE	0	0	1	3	0	3	1	0	0	0	0	0	8
SSE	0	0	1	1	4	2	2	0	0	0	0	0	10
S	0	1	0	0	3	3	0	0	0	0	0	0	7
SSW	0	0	0	2	3	8	0	0	0	0	0	0	13
SW	0	0	0	3	3	1	1	0	0	0	0	0	8
WSW	0	0	0	0	2	2	0	0	0	0	0	0	4
W	0	0	1	0	1	2	0	0	0	0	0	0	4
WNW	0	0	0	1	0	3	0	0	0	0	0	0	1
NW	0	0	0	0	0	1	0	0	0	0	0	0	5
NNW	0	0	0	1	1	1	2	0	0	0	0	0	
TOTAL	0	3	6	15	24	44	20	0	0	0	0	0	112

NUMBER OF CALMS: 1

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 113

TOTAL HOURS FOR THE PERIOD: 113

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 ALL STABILITY CLASSES

FROM 7/1/91 0100 TO 9/30/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	16	11	13	51	20	20	4	0	0	0	0	0	135
NNE	11	22	21	34	41	35	4	0	1	0	0	0	157
NE	15	17	32	36	15	8	0	0	0	0	0	0	123
ENE	9	16	14	32	11	10	0	0	0	0	0	0	72
E	10	15	28	26	10	7	0	0	0	0	0	0	76
ESE	9	17	24	30	10	5	0	0	0	0	0	0	75
SE	2	16	16	29	31	21	0	0	0	0	0	0	115
SSE	3	8	7	16	18	25	4	0	0	0	0	0	81
S	2	5	7	16	10	20	4	0	0	0	0	2	66
SSW	3	6	9	32	16	27	4	0	0	0	0	0	97
SW	4	10	11	25	23	9	2	0	0	0	0	0	84
WSW	9	12	14	25	31	18	3	0	0	0	0	0	112
W	14	18	17	20	35	35	0	0	0	0	0	0	139
WNW	13	21	20	40	26	28	1	0	0	0	0	0	149
NW	19	32	23	25	16	27	3	0	0	0	0	0	145
NNW	22	18	7	36	32	34	7	0	1	0	0	0	157
TOTAL	161	244	263	473	345	329	36	0	2	0	0	2	1855

NUMBER OF CALMS: 14

NUMBER OF INVALID HOURS: 339

NUMBER OF VALID HOURS: 1869

TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS A

FROM 7/1/91 0100 TO 9/30/91 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	1	0	3	4	8	2	0	0	0	0	18
NNE	0	1	1	3	11	17	3	0	0	0	0	36
NE	1	0	0	6	10	8	0	0	0	0	0	25
ENE	0	0	1	7	8	8	0	0	0	0	0	24
E	0	0	1	8	3	7	0	0	0	0	0	19
ESE	0	0	1	7	9	4	0	0	0	0	0	21
SE	0	0	0	4	15	20	0	0	0	0	0	39
SSE	0	0	0	3	11	20	3	0	0	0	0	37
S	0	0	0	2	4	14	2	0	0	0	0	22
SSW	0	0	0	3	6	15	1	0	0	0	0	25
SW	0	0	0	2	3	8	1	0	0	0	0	14
WSW	0	0	1	3	16	15	2	0	0	0	0	37
W	1	0	0	5	17	28	0	0	0	0	0	51
WNW	0	0	0	9	11	22	0	0	0	0	0	42
NW	0	0	0	1	4	21	2	0	0	0	0	28
NNW	0	0	0	1	5	13	6	0	0	0	0	25
TOTAL	2	2	5	67	137	228	22	0	0	0	0	463

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 463

TOTAL HOURS FOR THE PERIOD: 463

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

FROM 7/ 1/91 0:00 TO 9/30/91 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
"	0	0	0	3	3	2	1	0	0	0	0	9
NNE	0	0	0	2	3	0	0	0	0	0	0	5
NE	0	0	0	2	0	0	0	0	0	0	0	2
ENE	0	0	0	1	0	1	0	0	0	0	0	1
E	0	0	1	0	0	0	0	0	0	0	0	1
ESE	0	0	0	1	0	0	0	0	0	0	0	1
SE	0	0	1	1	1	0	0	0	0	0	0	3
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	5	0	1	0	0	0	0	0	6
SSW	0	0	0	2	1	5	0	0	0	0	0	8
SW	0	0	0	1	3	0	0	0	0	0	0	4
WSW	0	0	0	1	3	1	0	0	0	0	0	5
W	0	0	0	3	6	3	0	0	0	0	0	12
WNW	0	0	0	3	5	3	0	0	0	0	0	11
NW	0	0	0	0	4	4	0	0	0	0	0	8
NNW	0	0	0	2	4	8	1	0	0	0	0	15
TOTAL	0	0	2	27	33	28	2	0	0	0	0	92

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 92

TOTAL HOURS FOR THE PERIOD: 92

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS C

FROM 7/1/91 0:00 TO 9/30/91 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.22-.51	.51-.76	.76-1.1	1.1-1.6	1.6-2.1	2.1-3.1	3.1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1->18	TOT.
	,50	,75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	0	1	0	1	0	0	0	0	0	0	2
NNE	0	0	1	1	1	1	0	0	0	0	0	0	4
NE	0	0	0	2	0	0	0	0	0	0	0	0	2
ENE	0	0	0	1	0	0	0	0	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	2	0	0	0	0	0	0	0	0	0	2
SE	0	0	0	0	1	0	0	0	0	0	0	0	1
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	2	1	3	0	0	0	0	0	0	6
SW	0	1	0	0	2	0	0	0	0	0	0	0	3
WSW	0	0	0	2	0	0	0	0	0	0	0	0	2
W	0	0	0	0	2	0	0	0	0	0	0	0	2
WNW	0	0	0	0	1	1	0	0	0	0	0	0	2
NW	0	0	0	1	1	0	0	0	0	0	0	0	2
NNW	0	0	0	1	3	3	0	0	0	0	0	0	7
TOTAL	0	1	3	11	12	9	0	0	0	0	0	0	36

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 36

TOTAL HOURS FOR THE PERIOD: 36

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS D

FROM 7/ 1/91 0100 TO 9/30/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
	,50	,75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	4	13	7	7	1	0	0	0	0	0	32
NNE	0	2	0	2	4	10	1	0	0	0	0	0	19
NE	0	1	3	2	2	0	0	0	0	0	0	0	0
ENE	0	0	1	2	1	0	0	0	0	0	0	0	4
E	0	2	2	3	3	0	0	0	0	0	0	0	10
ESE	0	1	2	8	0	0	0	0	0	0	0	0	11
SE	0	0	2	4	2	1	0	0	0	0	0	0	9
SSE	0	1	2	5	2	3	1	0	0	0	0	0	14
S	0	2	1	2	3	3	1	0	0	0	0	0	12
SSW	0	1	0	4	4	3	3	0	0	0	0	0	15
SW	0	0	2	5	8	1	0	0	0	0	0	0	16
WSW	0	0	3	7	9	1	0	0	0	0	0	0	20
W	0	1	0	6	10	1	0	0	0	0	0	0	18
WNW	0	1	6	9	6	1	1	0	0	0	0	0	24
NW	0	1	3	7	5	1	1	0	0	0	0	0	18
NNW	0	0	0	12	14	9	0	0	0	0	0	0	35
TOTAL	0	13	31	91	80	41	9	0	0	0	0	0	265

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 265

TOTAL HOURS FOR THE PERIOD: 265

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS E

FROM 7/ 1/91 0100 TO 9/30/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	10T.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	10.0		
N	0	1	1	13	5	1	0	0	0	0	0	0	24
NNE	1	6	9	8	15	6	0	0	0	0	0	0	45
NE	2	4	13	9	2	0	0	0	0	0	0	0	30
ENE	2	6	7	14	2	1	0	0	0	0	0	0	32
E	4	8	17	12	4	0	0	0	0	0	0	0	45
ESE	4	5	15	14	1	1	0	0	0	0	0	0	40
SE	1	6	5	16	12	0	0	0	0	0	0	0	40
SSE	1	1	4	7	5	2	0	0	0	0	0	0	20
S	1	2	2	3	2	2	1	0	0	0	0	0	13
SSW	1	0	7	15	4	1	0	0	0	0	0	0	28
SW	0	3	4	15	7	0	1	0	0	0	0	0	30
WSW	0	5	9	12	3	1	0	0	0	0	0	0	30
W	2	5	11	5	0	3	0	0	0	0	0	0	26
WNW	1	6	7	15	3	1	0	0	0	0	0	0	33
NW	0	8	8	12	1	1	0	0	0	0	0	0	30
NNW	3	3	3	6	2	1	0	0	1	0	0	0	19
TOTAL	23	69	125	176	68	21	2	0	1	0	0	0	185

NUMBER OF CALMS: 1

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 486

TOTAL HOURS FOR THE PERIOD: 486

RIVER BLND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS F

FROM 7/1/91 0:00 TO 9/30/91 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>16	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	16.0		
N	4	3	1	8	1	0	0	0	0	0	0	0	17
NNE	3	8	5	11	7	0	0	0	1	0	0	0	35
NE	6	4	7	9	1	0	0	0	0	0	0	0	27
ENE	2	7	5	4	0	0	0	0	0	0	0	0	10
E	5	4	7	3	0	0	0	0	0	0	0	0	19
ESE	5	10	4	0	0	0	0	0	0	0	0	0	19
SE	1	10	7	3	0	0	0	0	0	0	0	0	21
SSE	1	5	1	1	0	0	0	0	0	0	0	0	8
S	1	0	4	4	1	0	0	0	0	0	0	0	12
SSW	2	4	1	6	0	0	0	0	0	0	0	0	13
SW	1	6	4	2	0	0	0	0	0	0	0	0	13
WSW	5	5	1	0	0	0	1	0	0	0	0	0	12
W	4	9	5	1	0	0	0	0	0	0	0	0	19
WNW	2	8	6	3	0	0	0	0	0	0	0	0	19
NW	5	16	5	4	1	0	0	0	0	0	0	0	31
NNW	8	6	1	8	4	0	0	0	0	0	0	0	27
TOTAL	55	105	64	67	15	0	1	0	1	0	0	2	310

NUMBER OF CALMS: 7

NUMBER OF INVALID HOURS: 5

NUMBER OF VALID HOURS: 317

TOTAL HOURS FOR THE PERIOD: 322

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS G

FROM 7/1/91 0100 TO 9/30/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22+	.51+	.76+	1.1+	1.6+	2.1+	3.1+	5.1+	7.1+	10.1+	13.1+	>18	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	12	6	4	10	0	1	0	0	0	0	0	0	33
NNE	7	5	5	7	0	1	0	0	0	0	0	0	25
NE	6	8	9	6	0	0	0	0	0	0	0	0	29
ENE	5	3	0	3	0	0	0	0	0	0	0	0	11
E	1	1	0	0	0	0	0	0	0	0	0	0	2
ESE	0	1	0	0	0	0	0	0	0	0	0	0	1
SE	0	0	1	1	0	0	0	0	0	0	0	0	2
SSE	1	1	0	0	0	0	0	0	0	0	0	0	2
S	0	1	0	0	0	0	0	0	0	0	0	0	1
SSW	0	1	1	0	0	0	0	0	0	0	0	0	2
SW	3	0	1	0	0	0	0	0	0	0	0	0	4
WSW	4	2	0	0	0	0	0	0	0	0	0	0	6
W	7	3	1	0	0	0	0	0	0	0	0	0	11
WNW	10	6	1	1	0	0	0	0	0	0	0	0	18
NW	14	7	7	0	0	0	0	0	0	0	0	0	28
NNW	11	9	3	6	0	0	0	0	0	0	0	0	29
TOTAL	81	54	33	34	0	2	0	0	0	0	0	0	204

NUMBER OF CALMS: 6

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 210

TOTAL HOURS FOR THE PERIOD: 210

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

FROM 7/1/91 0100 TO 9/30/91 2300

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	2	3	8	20	28	28	0	0	0	0	0	89
NNE	0	2	2	9	28	38	72	0	0	1	0	0	152
NE	1	2	5	13	15	33	61	1	0	0	0	0	131
ENE	2	1	2	14	15	48	74	1	0	0	0	0	157
E	0	0	7	18	29	24	36	2	0	0	0	0	116
ESE	0	0	5	7	21	51	43	7	0	0	0	0	134
SE	0	1	1	7	16	41	42	0	0	0	0	0	108
SSE	0	2	1	10	8	34	16	1	0	0	0	0	72
S	0	2	5	7	16	30	16	1	0	0	0	2	79
SSW	0	0	3	7	22	44	22	1	0	0	0	0	99
SW	0	2	0	12	18	42	10	2	0	0	0	0	86
WSW	1	1	1	13	26	54	17	1	0	0	0	0	114
W	0	1	3	8	36	94	31	2	0	0	0	0	175
WNW	0	2	7	9	25	59	23	0	0	0	0	0	125
NW	0	1	4	11	17	35	27	0	0	0	0	0	95
NNW	0	0	0	14	20	58	42	3	0	0	0	0	137
TOTAL	4	19	49	167	332	713	560	22	0	1	0	2	1869

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 339

NUMBER OF VALID HOURS: 1869

TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS A

FROM 7/1/91 0100 TO 9/30/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND	<22	.22-.51	.51-.76	.76-1.1	1.1-1.6	1.6-2.1	2.1-3.1	3.1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1->18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	1	0	0	2	1	3	0	0	0	0	0	7
NNE	0	0	1	0	4	9	18	0	0	0	0	0	32
NE	0	1	0	2	4	8	17	0	0	0	0	0	32
ENE	0	0	0	2	2	7	14	1	0	0	0	0	26
E	0	0	1	3	7	3	16	1	0	0	0	0	31
ESE	0	0	0	0	3	12	18	4	0	0	0	0	37
SE	0	0	0	1	3	12	15	0	0	0	0	0	31
SSE	0	0	0	0	1	14	11	1	0	0	0	0	27
S	0	0	0	1	1	9	7	0	0	0	0	0	18
SSW	0	0	0	3	2	6	5	0	0	0	0	0	16
SW	0	0	0	0	1	8	7	0	0	0	0	0	16
WSW	0	0	0	2	4	18	10	0	0	0	0	0	34
W	0	0	0	0	6	42	21	0	0	0	0	0	69
WNW	0	0	0	0	3	22	10	0	0	0	0	0	35
NW	0	0	0	0	1	9	16	0	0	0	0	0	26
NNW	0	0	0	1	2	7	13	3	0	0	0	0	26
TOTAL	0	2	2	15	46	187	201	10	0	0	0	0	463

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 463

TOTAL HOURS FOR THE PERIOD: 463

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS B

FROM 7/1/91 0100 TO 9/30/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	0	0	1	3	2	0	0	0	0	0	6
NNE	0	0	0	0	2	5	1	0	0	0	0	0	8
NE	0	0	0	0	0	3	0	0	0	0	0	0	3
ENE	0	0	0	0	0	1	0	0	0	0	0	0	1
E	0	0	1	0	0	0	1	0	0	0	0	0	2
ESE	0	0	0	0	0	0	1	0	0	0	0	0	1
SE	0	0	0	1	1	0	1	0	0	0	0	0	3
SSE	0	0	0	0	0	1	0	0	0	0	0	0	1
S	0	0	0	1	3	1	0	0	0	0	0	0	5
SSW	0	0	0	0	2	2	4	0	0	0	0	0	8
SW	0	0	0	0	0	2	0	0	0	0	0	0	2
WSW	0	0	0	0	1	2	1	0	0	0	0	0	4
W	0	0	0	1	4	10	0	0	0	0	0	0	15
WNW	0	0	0	0	1	9	0	0	0	0	0	0	10
NW	0	0	0	0	1	4	4	0	0	0	0	0	9
NNW	0	0	0	1	3	5	5	0	0	0	0	0	14
TOTAL	0	0	1	4	19	48	20	0	0	0	0	0	92

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 92

TOTAL HOURS FOR THE PERIOD: 92

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS C

FROM 7/1/91 0100 TO 9/30/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	0	0	1	0	0	0	0	0	0	1
NNE	0	0	0	1	0	2	1	0	0	0	0	4
NE	0	0	0	0	0	1	1	0	0	0	0	2
ENE	0	0	0	0	0	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	1	0	0	0	0	0	0	0	0	1
SE	0	0	0	1	0	0	1	0	0	0	0	2
SSE	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	5	0	0	0	0	0	5
SW	0	0	0	0	0	3	0	0	0	0	0	3
WSW	0	0	0	1	1	0	0	0	0	0	0	2
W	0	0	0	1	1	1	0	0	0	0	0	3
WNW	0	0	1	0	0	2	0	0	0	0	0	3
NW	0	0	0	0	1	1	0	0	0	0	0	2
NNW	0	0	0	0	0	7	0	0	0	0	0	7
TOTAL	0	0	2	4	4	22	4	0	0	0	0	36

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 36

TOTAL HOURS FOR THE PERIOD: 36

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS D

FROM 7/1/91 0:00 TO 9/30/91 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	2	1	6	12	4	0	0	0	0	0	25
NNE	0	0	0	0	5	0	12	0	0	1	0	0	18
NE	0	0	1	2	0	6	3	0	0	0	0	0	12
ENE	0	0	0	2	1	2	5	0	0	0	0	0	10
E	0	0	1	3	2	1	8	0	0	0	0	0	15
ESE	0	0	1	2	1	2	2	0	0	0	0	0	8
SE	0	0	0	0	0	3	4	0	0	0	0	0	7
SSE	0	1	1	3	1	3	2	0	0	0	0	0	11
S	0	0	1	0	4	6	2	0	0	0	0	0	13
SSW	0	0	0	1	3	7	6	1	0	0	0	0	18
SW	0	0	0	2	4	3	1	1	0	0	0	0	11
WSW	0	0	1	3	5	4	3	0	0	0	0	0	16
W	0	0	0	2	10	12	2	1	0	0	0	0	27
WNW	0	0	2	4	7	5	2	0	0	0	0	0	20
NW	0	0	4	5	6	3	2	0	0	0	0	0	20
NNW	0	0	0	6	6	16	6	0	0	0	0	0	34
TOTAL	0	1	14	36	61	85	64	3	0	1	0	0	265

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 265

TOTAL HOURS FOR THE PERIOD: 265

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS E

FROM 7/ 1/91 0100 TO 9/30/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	0	4	6	7	3	0	0	0	0	20
NNE	0	1	1	6	7	4	17	0	0	0	0	36
NE	0	0	2	6	2	7	12	1	0	0	0	30
ENE	0	1	0	7	11	25	16	v	0	0	0	60
E	0	0	3	6	14	11	10	1	0	0	0	45
ESE	0	0	1	2	9	24	14	3	0	0	0	53
SE	0	1	0	4	10	12	13	0	0	0	0	40
SSE	0	1	0	2	0	7	3	0	0	0	0	13
S	0	1	3	3	2	5	4	1	0	0	0	19
SSW	0	0	0	2	5	11	6	0	0	0	0	24
SW	0	2	0	5	5	15	2	1	0	0	0	30
WSW	0	1	0	5	6	14	2	0	0	0	0	28
W	0	0	1	3	7	13	8	1	0	0	0	33
WNW	0	1	0	1	5	9	7	0	0	0	0	23
NW	0	0	0	1	4	9	4	0	0	0	0	18
NNW	0	0	0	2	3	4	5	0	0	0	0	14
TOTAL	0	9	11	59	96	177	126	8	0	0	0	486

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 486

TOTAL HOURS FOR THE PERIOD: 486

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS F

FROM 7/ 1/91 0:00 TO 9/30/91 23:00

PRIMARY TENDERS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TDT.
	,50	,75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	1	1	0	3	3	9	0	0	0	0	0	17
NNE	0	1	0	1	6	8	7	0	0	0	0	0	23
NE	0	1	1	2	5	5	15	0	0	0	0	0	29
ENE	1	0	2	3	0	7	18	0	0	0	0	0	31
E	0	0	1	3	5	5	1	0	0	0	0	0	15
ESE	0	0	1	3	7	12	6	0	0	0	0	0	29
SE	0	0	1	0	2	11	7	0	0	0	0	0	21
SSE	0	0	0	4	4	9	0	0	0	0	0	0	17
S	0	1	1	1	3	8	3	0	0	0	0	0	19
SSW	0	0	2	1	6	7	1	0	0	0	0	0	17
SW	0	0	0	3	4	9	0	0	0	0	0	0	16
WSW	0	0	0	0	3	11	1	1	0	0	0	0	16
W	0	1	0	0	4	12	0	0	0	0	0	0	17
WNW	0	1	1	3	3	6	4	0	0	0	0	0	18
NW	0	0	0	1	2	5	0	0	0	0	0	0	9
NNW	0	0	0	2	4	10	8	0	0	0	0	0	24
TOTAL	1	6	11	27	61	128	80	1	0	0	0	2	317

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 5

NUMBER OF VALID HOURS: 317

TOTAL HOURS FOR THE PERIOD: 322

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS G

FROM 7/1/91 0100 TO 9/30/91 2300

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	0	3	1	2	7	0	0	0	0	13
NNE	0	0	0	1	4	10	16	0	0	0	0	31
NE	1	0	1	1	4	3	13	0	0	0	0	23
ENE	1	0	0	0	1	6	20	0	0	0	0	28
E	0	0	0	3	1	4	0	0	0	0	0	8
ESE	0	0	1	0	1	1	2	0	0	0	0	5
SE	0	0	0	0	0	3	1	0	0	0	0	4
SSE	0	0	0	1	2	0	0	0	0	0	0	3
S	0	0	0	1	3	1	0	0	0	0	0	5
SSW	0	0	1	0	4	6	0	0	0	0	0	11
SW	0	0	0	2	4	2	0	0	0	0	0	8
WSW	1	0	0	2	6	5	0	0	0	0	0	14
W	0	0	2	1	4	4	0	0	0	0	0	11
WNW	0	0	3	1	6	6	0	0	0	0	0	16
NW	0	1	0	4	2	4	1	0	0	0	0	12
NNW	0	0	0	2	2	9	5	0	0	0	0	18
TOTAL	3	1	8	22	45	66	65	0	0	0	0	210

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 210

TOTAL HOURS FOR THE PERIOD: 210

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 ALL STABILITY CLASSES

FROM 10/ 1/91 01:00 TO 12/31/91 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>16	TOT.
	,50	,75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	11	7	12	34	20	53	31	0	0	0	0	0	168
NNE	13	14	18	46	38	43	29	0	0	0	0	0	201
NE	18	13	21	53	30	29	2	0	0	0	0	0	166
ENE	33	40	28	23	30	34	4	0	0	0	0	0	192
E	24	24	20	31	10	20	1	0	0	0	0	0	130
ESE	17	16	21	45	31	26	3	0	0	0	0	0	159
SE	6	8	14	89	108	110	20	0	0	0	0	0	355
SSE	2	3	2	14	25	72	77	11	0	0	0	0	206
S	2	3	4	6	15	33	45	7	0	0	0	0	115
SSW	2	2	1	2	7	18	5	1	0	0	0	0	38
SW	0	2	12	3	4	3	0	0	0	0	0	0	24
WSW	4	6	5	3	6	5	0	1	0	0	0	0	30
W	2	4	4	5	10	6	3	0	0	0	0	0	34
WNW	8	13	6	14	6	12	5	0	0	0	0	0	64
NW	10	21	12	26	20	26	27	0	0	0	0	0	142
NNW	12	6	10	27	31	32	29	3	0	0	0	0	150
TOTAL	164	182	190	421	391	522	281	23	0	0	0	0	2174

NUMBER OF CALMS: 12
 NUMBER OF INVALID HOURS: 22
 NUMBER OF VALID HOURS: 2186
 TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	0	3	0	12	7	0	0	0	0	22
NNE	0	0	1	0	9	17	16	0	0	0	0	43
NE	0	0	0	7	14	14	2	0	0	0	0	37
ENE	0	0	2	5	18	23	1	0	0	0	0	49
E	0	0	4	11	10	5	0	0	0	0	0	30
ESE	0	0	0	12	7	14	3	0	0	0	0	36
SE	0	0	1	5	31	42	15	0	0	0	0	94
SSE	0	0	0	1	11	31	23	2	0	0	0	68
S	0	0	0	1	7	15	16	1	0	0	0	40
SSW	0	0	0	1	0	7	0	0	0	0	0	8
SW	0	0	0	0	2	1	0	0	0	0	0	3
WSW	0	0	0	0	1	4	0	0	0	0	0	5
W	0	0	0	2	6	4	2	0	0	0	0	14
WNW	0	0	0	0	1	3	0	0	0	0	0	4
NW	0	0	1	0	2	4	8	0	0	0	0	15
NNW	0	0	0	0	0	2	10	2	0	0	0	14
TOTAL	0	0	9	48	119	198	103	5	0	0	0	482

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 482

TOTAL HOURS FOR THE PERIOD: 482

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS B

FROM 10/ 1/91 0:00 TO 12/31/91 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND	<2.0	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	0	0	0	2	2	0	0	0	0	0	4
NNE	0	0	0	0	2	2	1	0	0	0	0	0	5
NE	0	0	1	0	0	0	0	0	0	0	0	0	1
ENE	0	0	0	0	0	1	0	0	0	0	0	0	1
E	0	0	0	1	0	1	0	0	0	0	0	0	2
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	1	0	2	4	1	0	0	0	0	0	8
SSE	0	0	0	2	0	1	5	2	0	0	0	0	10
S	0	0	0	1	1	2	3	0	0	0	0	0	7
SSW	0	0	0	0	1	2	2	0	0	0	0	0	5
SW	0	0	0	0	2	0	0	0	0	0	0	0	2
WSW	0	0	0	0	2	0	0	0	0	0	0	0	2
W	0	0	0	0	0	2	0	0	0	0	0	0	2
WNW	0	0	0	0	0	2	0	0	0	0	0	0	2
NW	0	0	0	0	0	6	2	0	0	0	0	0	8
NNW	0	0	0	1	0	2	7	0	0	0	0	0	11
TOTAL	0	0	2	5	10	27	23	3	0	0	0	0	70

NUMBER OF CALMS: 0

NUMBER OF INVALID HOUR 0

NUMBER OF VALID HOURS: 70

TOTAL HOURS FOR THE PERIOD: 70

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS C

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	0	0	1	0	2	0	0	0	0	0	2
NNE	0	0	0	1	0	0	1	0	0	0	0	0	2
NE	0	0	0	1	0	1	0	0	0	0	0	0	2
ENE	0	0	0	1	2	1	0	0	0	0	0	0	4
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	1	0	0	0	0	0	1
SSE	0	0	0	1	0	0	2	0	0	0	0	0	3
S	0	0	0	0	0	0	3	0	0	0	0	0	3
SSW	0	0	0	0	0	2	0	0	0	0	0	0	2
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	1	1	0	0	0	0	0	0	0	2
W	0	0	0	0	1	0	0	0	0	0	0	0	1
WNW	0	0	0	0	1	0	2	0	0	0	0	0	3
NW	0	0	0	0	0	0	2	0	0	0	0	0	2
NNW	0	0	0	0	0	4	0	0	0	0	0	0	4
TOTAL	0	0	0	5	6	8	13	0	0	0	0	0	32

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 32
 TOTAL HOURS FOR THE PERIOD: 32

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS D

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND	<22	.22-.51	.51-.76	.76-1.1	1.1-1.6	1.6-2.1	2.1-3.1	3.1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1->18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	2	6	10	23	20	0	0	0	0	0	61
NNE	0	0	1	3	8	7	9	0	0	0	0	0	28
NE	0	0	0	3	4	6	0	0	0	0	0	0	13
ENE	0	0	0	3	2	6	5	0	0	0	0	0	14
E	0	0	0	1	0	1	1	0	0	0	0	0	3
ESE	0	0	1	6	8	1	0	0	0	0	0	0	16
SE	0	0	0	7	10	13	3	0	0	0	0	0	33
SSE	0	1	0	0	4	12	30	7	0	0	0	0	54
S	0	0	0	1	2	8	20	6	0	0	0	0	37
SSW	0	0	0	0	4	1	3	1	0	0	0	0	9
SW	0	0	0	1	0	2	9	0	0	0	0	0	3
WSW	0	1	3	2	2	1	0	1	0	0	0	0	10
W	0	0	1	2	3	0	1	0	0	0	0	0	7
WNW	0	2	1	3	4	7	3	0	0	0	0	0	20
NW	0	1	2	11	11	11	14	0	0	0	0	0	50
NNW	0	0	2	8	11	11	8	0	0	0	0	0	40
TOTAL	0	5	13	57	83	110	115	15	0	0	0	0	398

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 398

TOTAL HOURS FOR THE PERIOD: 398

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

	<22	.22-.51	.51-.76	.76-1.1	1.1-1.6	>1.6	<1	1-5.1	5.1-7.1	7.1-10.1	10.1-13.1	13.1-16.0	>16	TOT.
DIR	.50	.75	1.0	1.5	2.0		.00	7.0	10.0	13.0	16.0			
N	0	1	0	11	5	16	0	0	0	0	0	0	0	33
HNE	0	0	0	6	12	17	2	0	0	0	0	0	0	27
NE	0	0	0	18	9	8	0	0	0	0	0	0	0	35
ENE	0	0	2	3	4	3	0	0	0	0	0	0	0	12
E	0	1	5	12	0	13	0	0	0	0	0	0	0	31
ESE	1	3	4	18	15	11	0	0	0	0	0	0	0	52
SE	0	2	5	49	50	48	0	0	0	0	0	0	0	154
SSE	0	0	0	4	6	28	16	0	0	0	0	0	0	54
S	0	1	2	1	2	8	3	0	0	0	0	0	0	17
SSW	0	0	0	1	1	5	0	0	0	0	0	0	0	7
SW	0	1	6	1	0	0	0	0	0	0	0	0	0	8
WSW	1	0	1	0	0	0	0	0	0	0	0	0	0	2
W	1	1	1	1	0	0	0	0	0	0	0	0	0	4
UNW	1	2	3	5	0	0	0	0	0	0	0	0	0	11
NW	1	3	1	7	6	5	1	0	0	0	0	0	0	24
NNW	0	0	0	6	14	13	4	0	0	0	0	0	0	37
TOTAL	5	15	30	143	124	175	26	0	0	0	0	0	0	518

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 518
TOTAL HOURS FOR THE PERIOD: 518

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS F

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND	<22	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>16	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0			
N	0	1	0	9	4	0	0	0	0	0	0	0	0	14
NNE	0	1	8	14	7	0	0	0	0	0	0	0	0	30
NE	1	0	7	18	3	0	0	0	0	0	0	0	0	29
ENE	0	2	2	3	4	0	0	0	0	0	0	0	0	11
E	3	4	1	3	0	0	0	0	0	0	0	0	0	11
ESE	1	3	8	6	1	0	0	0	0	0	0	0	0	21
SE	1	1	3	20	14	3	0	0	0	0	0	0	0	42
SSE	0	1	1	4	3	0	1	0	0	0	0	0	0	10
S	0	1	1	2	3	0	0	0	0	0	0	0	0	7
SSW	0	0	1	0	1	1	0	0	0	0	0	0	0	3
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1	2	1	0	0	0	0	0	0	0	0	0	0	4
W	0	0	2	0	0	0	0	0	0	0	0	0	0	2
WNW	2	0	1	4	0	0	0	0	0	0	0	0	0	7
NW	0	3	2	2	1	0	0	0	0	0	0	0	0	8
NNW	0	2	6	8	5	0	0	0	0	0	0	0	0	21
TOTAL	9	21	44	95	46	4	1	0	0	0	0	0	0	220

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 220

TOTAL HOURS FOR THE PERIOD: 220

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS G

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	<22	.51	.76	1.1	1.6	2.1	3.1	5.1	7.1	10.1	13.1	>18	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	11	5	10	5	0	0	0	0	0	0	0	0	31
NNE	13	13	8	22	0	0	0	0	0	0	0	0	56
NE	17	13	13	6	0	0	0	0	0	0	0	0	49
ENE	33	38	22	8	0	0	0	0	0	0	0	0	101
E	21	19	10	3	0	0	0	0	0	0	0	0	53
ESE	15	10	8	1	0	0	0	0	0	0	0	0	34
SE	5	5	4	6	1	0	0	0	0	0	0	0	23
SSE	2	1	1	2	1	0	0	0	0	0	0	0	7
S	2	1	1	0	0	0	0	0	0	0	0	0	4
SSW	2	0	0	0	0	0	0	0	0	0	0	0	4
SW	0	1	6	1	0	0	0	0	0	0	0	0	8
WSW	2	3	0	0	0	0	0	0	0	0	0	0	5
W	1	3	0	0	0	0	0	0	0	0	0	0	4
WNW	5	9	1	2	0	0	0	0	0	0	0	0	17
NW	9	14	6	6	0	0	0	0	0	0	0	0	35
NNW	12	4	2	4	1	0	0	0	0	0	0	0	23
TOTAL	150	141	92	68	3	0	0	0	0	0	0	0	454

NUMBER OF CALMS: 12

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 466

TOTAL HOURS FOR THE PERIOD: 466

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>10	TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	2	1	2	11	35	99	17	0	0	0	0	167
NNE	0	1	0	3	15	73	74	10	0	0	0	0	176
NE	0	0	0	2	6	38	146	13	1	0	0	0	206
ENE	1	1	1	6	8	47	91	11	0	0	0	0	166
E	0	0	1	15	14	50	34	14	0	0	0	0	128
ESE	1	0	1	5	21	35	194	60	5	0	0	0	322
SE	1	0	0	6	5	46	195	43	4	0	0	0	300
SSE	0	0	1	3	7	31	69	37	4	0	0	0	152
S	0	0	1	4	7	40	57	27	3	0	0	0	139
SSW	0	0	1	6	3	22	18	3	0	0	0	0	53
SW	0	0	0	5	3	4	1	0	0	0	0	0	13
WSW	0	1	0	5	6	17	8	0	1	0	0	0	78
W	0	0	2	4	5	22	8	1	0	0	0	0	42
WNW	0	0	1	5	9	14	17	9	0	0	0	0	55
NW	0	0	3	3	7	34	50	13	1	0	0	0	111
NNW	0	0	0	2	9	31	55	20	0	0	0	0	117
TOTAL	3	5	13	76	136	539	1116	278	19	0	0	0	2185

NUMBER OF CALMS: 1
NUMBER OF INVALID HOURS: 22
NUMBER OF VALID HOURS: 2186
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.20-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	16	101+
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	0	0	1	1	13	3	0	0	0	0	10
NNE	0	0	0	2	1	12	16	1	0	0	0	0	32
NE	0	0	0	0	4	20	9	7	1	0	0	0	41
ENE	0	0	0	1	4	22	25	3	0	0	0	0	55
E	0	0	0	6	6	10	17	2	0	0	0	0	41
ESE	0	0	0	2	10	14	34	10	4	0	0	0	74
SE	0	0	0	2	2	19	41	13	2	0	0	0	79
SSE	0	0	0	0	1	14	14	11	0	0	0	0	40
S	0	0	0	1	3	11	14	9	0	0	0	0	38
SSW	0	0	0	0	0	6	2	0	0	0	0	0	8
SW	0	0	0	0	0	4	0	0	0	0	0	0	4
WSW	0	0	0	0	0	2	0	0	0	0	0	0	2
W	0	0	0	0	1	13	3	0	0	0	0	0	17
WNW	0	0	0	0	0	2	2	1	0	0	0	0	5
NW	0	0	0	1	0	3	5	2	1	0	0	0	17
NNW	0	0	0	0	0	2	3	6	0	0	0	0	11
TOTAL	0	0	0	15	33	155	198	73	8	0	0	0	482

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 482

TOTAL HOURS FOR THE PERIOD: 482

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS B

FROM 10/ 1/91 0100 TO 12/31/91 2300

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	16.0	
N	0	0	0	0	1	0	3	2	0	0	0	6
NNE	0	0	0	0	1	1	2	0	0	0	0	4
NE	0	0	0	0	0	0	1	0	0	0	0	1
ENE	0	0	0	0	0	0	2	0	0	0	0	2
E	0	0	0	0	0	1	0	1	0	0	0	2
ESE	0	0	0	0	0	0	1	0	0	0	0	1
SE	0	0	0	1	0	1	5	3	0	0	0	10
SSE	0	0	0	1	0	0	0	3	2	0	0	6
S	0	0	0	0	2	2	1	3	0	0	0	8
SSW	0	0	0	0	0	2	3	0	0	0	0	5
SW	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	1	2	0	0	0	0	0	3
W	0	0	0	0	0	2	1	0	0	0	0	3
WNW	0	0	0	0	0	1	1	0	0	0	0	2
NW	0	0	0	0	0	1	6	1	0	0	0	8
NNW	0	0	0	0	0	1	1	7	0	0	0	9
TOTAL	0	0	0	2	5	14	27	20	2	0	0	70

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 70
 TOTAL HOURS FOR THE PERIOD: 70

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS C

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
N	0	0	0	0	0	1	0	1	0	0	0	0	0
NNE	0	0	0	0	1	0	1	1	0	0	0	0	2
NE	0	0	0	1	0	1	1	0	0	0	0	0	2
ENE	0	0	0	0	0	0	3	0	0	0	0	0	3
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	1	0	0	0	0	1
SSE	0	0	0	0	1	0	0	2	0	0	0	0	2
S	0	0	0	0	0	0	2	1	0	0	0	0	3
SSW	0	0	0	0	0	2	0	0	0	0	0	0	2
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	2	0	0	0	0	0	0	0	2
W	0	0	0	0	0	1	0	0	0	0	0	0	1
WNW	0	0	0	0	1	0	0	2	0	0	0	0	3
NW	0	0	0	0	0	0	1	1	0	0	0	0	2
NNW	0	0	0	0	0	0	4	0	0	0	0	0	4
TOTAL	0	0	0	1	5	5	12	9	0	0	0	0	32

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 32
 TOTAL HOURS FOR THE PERIOD: 32

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS D

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18	TOT.
DIR	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	0	0	0	5	9	29	10	0	0	0	0	54
NNE	0	0	0	0	5	10	11	6	0	0	0	0	32
NE	0	0	0	1	1	0	9	2	0	0	0	0	12
ENE	0	1	1	1	0	3	6	6	0	0	0	0	10
E	0	0	0	2	1	0	1	2	0	0	0	0	6
ESE	0	0	0	0	0	3	22	7	0	0	0	0	32
SE	0	0	0	0	0	2	18	7	2	0	0	0	29
SSE	0	0	0	0	1	0	18	17	2	0	0	0	38
S	0	0	0	0	0	3	20	12	3	0	0	0	38
SSW	0	0	0	1	1	3	5	3	0	0	0	0	13
SW	0	0	0	1	1	0	1	0	0	0	0	0	3
WSW	0	0	0	1	1	0	3	0	1	0	0	0	6
W	0	0	1	2	2	1	2	1	0	0	0	0	9
WNW	0	0	0	2	2	6	11	6	0	0	0	0	27
NW	0	0	2	0	4	16	16	3	0	0	0	0	41
NNW	0	0	0	2	6	18	10	4	0	0	0	0	40
TOTAL	0	1	4	13	30	74	182	86	8	0	0	0	398

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 398

TOTAL HOURS FOR THE PERIOD: 398

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

FROM 10/ 1/91 0100 TO 12/31/91 23100

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>10 TOT.
	.50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	10.0	
N	0	1	0	1	0	7	24	1	0	0	0	34
NNE	0	0	0	0	2	8	22	2	0	0	0	34
NE	0	0	0	0	0	7	35	1	0	0	0	43
ENE	0	0	0	1	0	2	9	2	0	0	0	14
E	0	0	0	3	1	11	5	9	0	0	0	29
ESE	0	0	0	0	0	9	79	37	1	0	0	126
SE	1	0	0	1	0	4	73	18	0	0	0	97
SSE	0	0	0	1	1	1	27	4	0	0	0	34
S	0	0	0	0	0	5	15	2	0	0	0	22
SSW	0	0	0	2	0	1	6	0	0	0	0	9
SW	0	0	0	2	1	0	0	0	0	0	0	3
WSW	0	0	0	1	1	4	0	0	0	0	0	6
W	0	0	0	0	2	3	0	0	0	0	0	5
WNW	0	0	1	3	3	2	1	0	0	0	0	10
NW	0	0	0	0	1	8	11	1	0	0	0	21
NNW	0	0	0	0	0	4	24	3	0	0	0	31
TOTAL	1	1	1	15	12	76	331	80	1	0	0	518

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 518
 TOTAL HOURS FOR THE PERIOD: 518

RIVER BEND STATION
 JOINT FREQUENCY TABLE
 STABILITY CLASS F

FROM 10/ 1/91 0:00 TO 12/31/91 23:00

PRIMARY SENSORS = 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-	.51-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>18 TOT.
	,50	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0	
N	0	0	0	0	1	7	17	0	0	0	0	25
NNE	0	0	0	0	0	16	7	0	0	0	0	23
NE	0	0	0	0	0	3	30	1	0	0	0	34
ENE	0	0	0	0	1	5	14	0	0	0	0	20
E	0	0	0	1	0	3	4	0	0	0	0	8
ESE	0	0	1	0	1	0	33	6	0	0	0	41
SE	0	0	0	0	0	4	23	1	0	0	0	28
SSE	0	0	0	0	1	2	4	0	0	0	0	7
S	0	0	0	1	0	2	3	0	0	0	0	6
SSW	0	0	0	0	0	3	2	0	0	0	0	5
SW	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	3	0	0	0	0	0	3
W	0	0	0	0	0	1	0	0	0	0	0	1
WNW	0	0	0	0	1	0	1	0	0	0	0	2
NW	0	0	0	1	1	1	5	0	0	0	0	8
NNW	0	0	0	0	0	2	6	0	0	0	0	8
TOTAL	0	0	1	3	6	52	149	8	0	0	0	219

NUMBER OF CALMS: 1

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 220

TOTAL HOURS FOR THE PERIOD: 220

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

FROM 10/ 1/91 0100 TO 12/31/91 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

Wind	22-	.31-	.76-	1.1-	1.6-	2.1-	3.1-	5.1-	7.1-	10.1-	13.1-	>19 TOT.
DIR	.75	1.0	1.5	2.0	3.0	5.0	7.0	10.0	13.0	18.0		
N	0	1	1	3	10	13	0	0	0	0	0	29
NNE	0	1	0	1	5	26	15	0	0	0	0	48
NE	0	0	0	1	7	61	2	0	0	0	0	71
ENE	1	0	0	3	3	15	32	0	0	0	0	54
E	0	0	1	3	6	25	7	0	0	0	0	42
ESE	1	0	0	3	10	9	25	0	0	0	0	48
SE	0	0	0	2	3	16	35	0	0	0	0	56
SSE	0	0	1	1	2	14	6	0	0	0	0	24
S	0	0	1	2	2	17	2	0	0	0	0	24
SSW	0	0	1	3	2	5	0	0	0	0	0	11
SW	0	0	0	2	1	0	0	0	0	0	0	3
WSW	0	1	0	3	1	6	5	0	0	0	0	16
W	0	0	1	2	0	1	2	0	0	0	0	6
WNW	0	0	0	0	2	3	1	0	0	0	0	6
NW	0	0	1	1	1	5	6	0	0	0	0	14
NNW	0	0	0	0	3	4	7	0	0	0	0	14
TOTAL	2	3	7	27	45	163	217	2	0	0	0	466

NUMBER OF CALMS: 0

NUMBER OF INVALID HOURS: 0

NUMBER OF VALID HOURS: 466

TOTAL HOURS FOR THE PERIOD: 466