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May 1, 2001

U.S. Nuclear Regulatory Commission
ATTN.: Document Control Desk
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Subject: Radioactive Effluent Release Report for 2000
River Bend Station - Unit 1
License No. NPF-47
Docket No. 50-458

File Nos.: G9.5, G9.25.1.5

RBG-45727
RBF1-01-0099

Ladies and Gentlemen:

Enclosed is the River Bend Station (RBS) Annual Radioactive Effluent Release Report for the period January 1, 2000, through December 31, 2000. This report is submitted in accordance with the RBS Technical Specifications, Section 5.6.3.

Should you have any questions regarding the enclosed information, please contact Mr. Arlie D. Wells at (225) 381-4477.

Sincerely,

A handwritten signature in black ink that reads "Rick J. King".

Rick J. King
RJK/DLM
enclosure

Handwritten initials "JEB" in the bottom right corner of the page.

Radioactive Effluent Release Report for 2000
May 1, 2001
RBG-45727
RBF1-01-0099
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2000 ANNUAL EFFLUENT RELEASE REPORT

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ATTACHMENT 1 – Radwaste Process Control Program (PCP)

I. INTRODUCTION

This is the annual Radioactive Effluent Release Report for the period of January 1, 2000 through December 31, 2000. This report is submitted in accordance with Technical Specification 5.6.3 of Appendix A to River Bend Station (RBS) License Number NPF-47.

II. SUPPLEMENTAL INFORMATION

A. Regulatory Limits

1. 10CFR50, Appendix I Limits

a. Fission and Activation Gases

In accordance with Technical Requirement 3.11.2.2, the air dose due to noble gases released in gaseous effluent to areas at and beyond the SITE BOUNDARY shall be limited to:

$$\begin{aligned}
 D_{\text{Gamma-Air}} &= \text{gamma air dose from radioactive noble gases in millirad (mrad)} \\
 &= 3.17\text{E-}8 \sum_{i=1}^n M_i \overline{(X/Q)} Q_i \leq 5 \text{ mrad/qtr} \\
 &\leq 10 \text{ mrad/yr}
 \end{aligned}$$

$$\begin{aligned}
 D_{\text{Beta-Air}} &= \text{beta air dose from radioactive noble gases in millirad (mrad)} \\
 &= 3.17\text{E-}8 \sum_{i=1}^n N_i \overline{(X/Q)} Q_i \leq 10 \text{ mrad/qtr} \\
 &\leq 20 \text{ mrad/yr}
 \end{aligned}$$

b. Radioiodine and Particulate

In accordance with Technical Requirement 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 effluent releases to areas at and beyond the SITE BOUNDARY shall be limited to:

$$\begin{aligned}
 D_{I\&8DP\tau} &= \text{Dose in mrem to the organ } (\tau) \text{ of a specified age group from radioiodine, tritium, and 8 day particulate via the pathway of interest.} \\
 &= 3.17\text{E-}08 (F_o) \sum_{I=1}^n P_{I\tau} (X/Q) Q_i \quad \underline{\text{and}} \\
 &= 3.17\text{E-}08 (F_o) \sum_{I=1}^n R_{I\tau} (D/Q) Q_i \quad \underline{\text{and}}
 \end{aligned}$$

$$D_{\tau} = \sum_{z=1}^n D_{I\&8DP\tau} \leq 7.5 \text{ mrem/qtr}$$

$$\geq 15 \text{ mrem/yr}$$

(above terms defined in the RBS ODCM)

c. Liquid Effluent

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

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

and

$$D_{TOTAL\tau} = \sum_{i=1}^n D_{it}$$

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

and

$$D_{TOTAL} \quad \text{Total Body} \leq 1.5 \text{ mrem/qtr}$$

$$\leq 3 \text{ mrem/yr}$$

$$D_{TOTAL} \quad \text{Any Organ} \leq 5 \text{ mrem/qtr}$$

$$\leq 10 \text{ mrem/yr}$$

(above terms defined in RBS ODCM)

2. 40CFR190 Limits

In accordance with Technical Requirement 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:

$$\leq 25 \text{ mrem to the total body or any organ (except the thyroid)}$$

$$\leq 75 \text{ mrem to the thyroid}$$

3. Miscellaneous Limits

a. Technical Requirement 3.11.2.1 - Fission and Activation Gases

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

$$\begin{aligned} DR_{TB} &= \text{Dose rate to the total body in mrem/yr} \\ &= \sum_{i=1}^n K_i \overline{(X/Q)} \cdot Q_i \leq 500 \text{ mrem/yr and} \end{aligned}$$

$$\begin{aligned} DR_{SKIN} &= \text{Dose rate to the skin in mrem/yr} \\ &= \sum_{i=1}^n L_i + 1.1M_i \overline{(X/Q)} \cdot Q_i \leq 3000 \text{ mrem/yr} \end{aligned}$$

(above terms defined in RBS ODCM)

b. Technical Requirement 3.11.2.1 - Radioiodine and Particulate

In accordance with Technical Requirement 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 mrem/yr to any organ:

$$\begin{aligned} DR_{I\&8DP\tau} &= \text{Dose rate to the organ } \tau \text{ for the age pathway group} \\ &\quad \text{of interest from iodines, tritium, and 8 day} \\ &\quad \text{particulate via the inhalation pathway in mrem/yr.} \\ &= \sum_{i=1}^n P_i \overline{(X/Q)} \cdot Q_i \leq 1500 \text{ mrem/yr} \end{aligned}$$

(above terms defined in RBS ODCM)

c. **Technical Requirement 3.11.1.1 - Liquid Effluent**

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

d. **Technical Requirement 3.11.2.5 - Ventilation Exhaust Treatment System**

In accordance with Technical Requirement 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 and beyond the SITE BOUNDARY would exceed 0.3 mrem to any organ in a 31-day period.

e. **Technical Requirement 3.11.1.3 - Liquid Radwaste Treatment System**

In accordance with Technical Requirement 3.11.1.3, the liquid radwaste treatment system shall be used to reduce the radioactive materials in liquid waste 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. Effluent Concentration Limits

1. **Gaseous Releases**

The concentrations of radioactive gaseous releases are based on the dose rate restrictions in RBS Technical Requirements, rather than the Effluent Concentration Limits (ECL) listed in 10CFR20 Appendix B, Table 2, Column 1.

2. **Liquid Releases**

The Effluent Concentration Limits of radioactive materials in liquid effluent is limited by 10CFR20, Appendix B, Table 2, Column 2.

C. Measurements and Approximations of Total Radioactivity

1. Gaseous Effluent

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 abundance 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 a significant increase in hourly averages was recorded, the nuclide relative abundance 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. Particulate and Iodines

Particulates and iodines are continuously sampled from the three release points utilizing a particulate filter and charcoal cartridge in line with a sample 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 Effluent

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 utilizing 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.

D. Batch Releases

1. Liquid

YEAR 2000			
	1 st Qtr	2 nd Qtr	
Number of batch releases	58	41	
Total time period for batch releases	296.7	210.0	Hours
Maximum time period for batch releases	18.3	8.9	Hours
Average time period for batch releases	5.1	5.1	Hours
Minimum time period for a batch release	3.5	1.4	Hours
Average stream flow during periods of release of effluent into a flowing stream (ft ³ /sec)	940,000	1,406,000	(ft ³ /sec)

YEAR 2000			
	3rd Qtr	4th Qtr	
Number of batch releases	45	15	
Total time period for batch releases	218.3	71.3	Hours
Maximum time period for batch releases	5.5	4.9	Hours
Average time period for batch releases	4.9	4.8	Hours
Minimum time period for a batch release	3.0	4.3	Hours
Average stream flow during periods of release of effluent into a flowing stream (ft³/sec)	936,000	753,000	(ft³/sec)

2. Gaseous

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

E. Abnormal Releases

No abnormal releases during the reporting period of January 1, 2000 through December 31, 2000.

F. 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	: ± 14.2%
Tritium	: ± 14.2%
Dissolved and Entrained Noble Gases	: ± 14.2%
Gross Alpha Radioactivity	: ± 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:

Noble Gases	: ± 37.0%
Iodines	: ± 18.6%
Particulate	: ± 18.6%
Tritium	: ± 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:

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

where:

E_T = 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 EFFLUENT 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 indicates that the concentration of the particular radionuclide was below the Lower Limit of Detection (LLD) as listed in Table 1. Also, any nuclide not appearing in the tables was < LLD for all four quarters.

IV. LIQUID EFFLUENT 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 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, for "Solid Waste and Irradiated Fuel Shipments".

VI. RADIOLOGICAL IMPACT ON MAN

An assessment was made of radiation doses to the likely most-exposed member of the public from River Bend and other nearby uranium fuel cycle sources (40CFR190 compliance). 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 less than or equal to 25 mrem to the total body or any organ, except the thyroid, which shall be limited to less than or equal to 75 mrem.

Total Body = 3.74E-02 mrem
 Skin = 4.98E-02 mrem
 Thyroid = 1.93E-01 mrem
 Other Organ = 3.81E-02 mrem

In addition, an assessment of doses was made for members of the public due to their activities inside the site boundary. Parameters and assumptions utilized to make this determination can be found in Table 11. The results of the calculations can be found in Table 12. The maximally exposed member of the public on site was the lawn service provider who works around the General Services Building lawn eight hours per day, 5 days per week, 13 weeks per year. 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 13 and 14 for the cumulative joint frequency distributions and annual average data for continuous releases.

VIII. RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION OPERABILITY

The minimum number of channels required to be OPERABLE as described in Table 3.3.11.2-1 of Technical Requirement 3.3.11.2 were, if inoperable at any time in the period 1/1/00 through 12/31/00, 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 3.3.11.3-1 of Technical Requirement 3.3.11.3 were, if inoperable at any time in the period 1/1/00 through 12/31/00, 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 1/1/00 through 12/31/00 was less than or equal to the 10 curie limit as required by Technical Specification 5.5.8.b.

XI. RADIOLOGICAL ENVIRONMENTAL MONITORING

Refer to Section XIII for changes in radiological environmental monitoring locations during the reporting period 1/1/00 through 12/31/00.

XII. LAND USE CENSUS

The Land Use Census, as required by Technical Requirement 3.12.2, did not identify any location(s) that would yield a calculated dose or dose commitment greater than the values calculated. In addition, the milk animal census identified no milk production for human consumption within 8 km (5 miles) of River Bend Station.

XIII. OFFSITE DOSE CALCULATION MANUAL (ODCM)

There were no changes to the ODCM for the period 1/1/00 through 12/31/00.

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 1/1/00 through 12/31/00.

XV. PROCESS CONTROL PROGRAM (PCP)

The following changes were made to the Process Control Program during the year 2000:

1. Step 6.1.1 was reworded to clarify how radioactive waste is processed at RBS. The earlier revision incorrectly referenced a Topical Report.
2. Added the Entergy Quality Assurance Manual to the reference section (Step 3.6).
3. Steps 5.2 and 6.3 changed Quality Programs to Quality Assurance.
4. Deleted the last sentence in Step 6.3, which referred to the Quality Assurance Manual, because it was no longer applicable.

A copy of the Process Control Program is located in Attachment 1.

TABLE 1
Effluent and Waste Disposal Annual Report 2000 Year
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
Effluent and Waste Disposal Annual Report 2000 Year
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: <u>except</u> for Ce-144	5.00E-07
			I-131	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	1.00E-05
			Gross Alpha	1.00E-07
	P Each Batch	Q Composite	Sr-89, Sr-90	5.00E-08
			Fe-55	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 Annual Report 2000 Year
Gaseous Effluent - Summation of All Releases 1/2 Quarters

	Unit	Quarter 1	Quarter 2	Estimated Total Error %
--	------	-----------	-----------	-------------------------

A. Noble Gases

1. Total Release	Curies	1.06 E+01	1.49 E+01	3.70 E+01
2. Average release rate for period	uCi/sec	1.35 E+00	1.90 E+00	
3. Percent of T.R. limit (1)	%	5.2 E-02	6.0 E-02	

B. Iodines

1. Total I-131 and I-133				
I-131	Curies	1.99 E-03	4.24 E-04	1.86 E+01
I-133	Curies	4.3 E-02	2.6 E-03	1.86 E+01
2. Average release rate for period				
I-131	uCi/sec	2.53 E-04	5.39 E-05	
I-133	uCi/sec	5.48 E-04	3.28 E-04	
3. I-131 + I-133 contribution percent of T.R. limit	%	9.4 E-01	2.3 E-01	

C. Particulate

1. Particulate with half lives of > 8 days	Curies	3.58 E-04	3.26 E-04	1.86 E+01
2. Average release rate for period	uCi/sec	4.55 E-05	4.15 E-05	
3. Percent of T.R. limit	%	4.4 E-02	3.6 E-02	
4. Gross alpha radioactivity	Curies	0.00 E+00	0.00 E+00	

D. Tritium

1. Total Release	Curies	1.41 E+00	7.03 E-01	1.82 E+01
2. Average release rate for period	uCi/sec	1.80 E-01	8.94 E-02	
3. Percent of T.R. limit	%	3.3 E-02	1.5 E-02	

(1) Either the gamma air dose limit of 5 mrad/qtr or beta air dose limit of 10 mrad/qtr (T.R. 3.11.2.2.a), which ever is most limiting.

TABLE 3
Effluent and Waste Disposal Annual Report 2000 Year
Gaseous Effluent - Summation of All Releases 3/4 Quarters

	Unit	Quarter 3	Quarter 4	Estimated Total Error %
--	------	-----------	-----------	-------------------------

A. Noble Gases

1. Total Release	Curies	4.91 E+00	2.00 E+01	3.70 E+01
2. Average release rate for period	uCi/sec	6.17 E-01	2.52 E+00	
3. Percent of T.R. limit (1)	%	8.6 E-02	4.5 E-01	

B. Iodines

1. Total I-131 and I-133				
I-131	Curies	1.17 E-03	7.35 E-04	1.86 E+01
I-133	Curies	4.92 E-03	5.01 E-03	1.86 E+01
2. Average release rate for period				
I-131	uCi/sec	1.49 E-04	9.35 E-05	
I-133	uCi/sec	6.26 E-04	6.37 E-04	
3. I-131 + I-133 contribution percent of T.R. limit	%	5.6 E-01	3.7 E-01	

C. Particulate

1. Particulate with half lives of > 8 days	Curies	2.67 E-04	2.50 E-04	1.86 E+01
2. Average release rate for period	uCi/sec	3.36 E-05	3.15 E-05	
3. Percent of T.R. limit	%	2.1 E-02	2.4 E-02	
4. Gross alpha radioactivity	Curies	0.00 E+00	0.00 E+00	

D. Tritium

1. Total Release	Curies	1.39 E+00	2.66 E+00	1.82 E+01
2. Average release rate for period	uCi/sec	1.74 E-01	3.34 E-01	
3. Percent of T.R. limit	%	2.9 E-02	5.8 E-02	

(1) Either the gamma air dose limit of 5 mrad/qtr or beta air dose limit of 10 mrad/qtr (T.R. 3.11.2.2.a), which ever is most limiting.

TABLE 4
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
GASEOUS EFFLUENT - CONDITIONALLY ELEVATED RELEASES 1/2 QUARTERS

A. FISSION GASES

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Kr-85m	Ci	0.000E+00	1.36 E-01	N/A	N/A
Kr-88	Ci	0.00 E+00	1.38 E-01	N/A	N/A
Xe-133	Ci	3.27 E+00	5.62 E+00	N/A	N/A
Xe-135	Ci	2.51 E+00	5.69 E+00	N/A	N/A
Xe-135m	Ci	2.52 E+00	1.29 E+00	N/A	N/A
Total For Period	Ci	8.30 E+00	1.29 E+01	N/A	N/A

B. IODINES

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Iodine-131	Ci	1.94 E-03	4.07 E-04	N/A	N/A
Iodine-133	Ci	4.31 E-03	2.58 E-03	N/A	N/A
Total For Period	Ci	6.25 E-03	2.99 E-03	N/A	N/A

C. PARTICULATES

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Mn-54	Ci	3.44 E-05	1.48 E-05	N/A	N/A
Co-60	Ci	1.48 E-04	7.62 E-05	N/A	N/A
Sr-89	Ci	7.47 E-05	9.99 E-05	N/A	N/A
Ba-140	Ci	3.30 E-05	3.14 E-05	N/A	N/A
Total For Period	Ci	2.90 E-04	2.23 E-04	N/A	N/A

D. TRITIUM

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Hydrogen-3	Ci	1.01 E+00	5.13 E-01	N/A	N/A

TABLE 4
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
GASEOUS EFFLUENT - CONDITIONALLY ELEVATED RELEASES 3/4 QUARTERS

A. FISSION GASES		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Kr-85m	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Kr-88	Ci	0.00 E+00	0.000E+00	N/A	N/A
Xe-133	Ci	7.94 E-02	0.00 E+00	N/A	N/A
Xe-135	Ci	2.72 E+00	1.72 E+01	N/A	N/A
Xe-135m	Ci	2.83 E-01	0.00 E+00	N/A	N/A
Total For Period	Ci	3.08 E+00	1.72 E+01	N/A	N/A

B. IODINES		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Iodine-131	Ci	1.17 E-03	7.35 E-04	N/A	N/A
Iodine-133	Ci	4.92 E-03	5.01 E-03	N/A	N/A
Total For Period	Ci	6.09 E-03	5.75 E-03	N/A	N/A

C. PARTICULATES		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Mn-54	Ci	1.04 E-05	1.41 E-06	N/A	N/A
Co-58	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Fe-59	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Co-60	Ci	6.27 E-05	5.80 E-05	N/A	N/A
Zn-65	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Sr-89	Ci	1.16 E-04	9.31 E-05	N/A	N/A
Ba-140	Ci	4.68 E-05	5.59 E-05	N/A	N/A
Total For Period	Ci	2.36 E-04	2.08 E-04	N/A	N/A

D. TRITIUM		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Hydrogen-3	Ci	1.04 E+00	1.93 E+00	N/A	N/A

TABLE 5
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
GASEOUS EFFLUENT - GROUND LEVEL 1/2 QUARTERS

A. FISSION GASES		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Kr-85m	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Kr-88	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Xe-133	Ci	2.34 E+00	2.04 E+00	N/A	N/A
Xe-135	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Xe-135m	Ci	0.000E+00	0.000E+00	N/A	N/A
Total For Period	Ci	2.34 E+00	2.04 E+00	N/A	N/A

B. IODINES		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Iodine-131	Ci	4.86 E-05	1.69 E-05	N/A	N/A
Iodine-133	Ci	3.54 E-06	0.00 E+00	N/A	N/A
Total For Period	Ci	5.21 E-05	1.69 E-05	N/A	N/A

C. PARTICULATES		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Mn-54	Ci	2.23 E-05	1.83 E-05	N/A	N/A
Co-58	Ci	0.00 E+00	7.35 E-07	N/A	N/A
Fe-59	Ci	1.91 E-07	0.00 E+00	N/A	N/A
Co-60	Ci	4.27 E-05	4.94 E-05	N/A	N/A
Zn-65	Ci	1.89 E-06	3.52 E-05	N/A	N/A
Sr-89	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Ba-140	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Total For Period	Ci	6.71 E-05	1.04 E-04	N/A	N/A

D. TRITIUM		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Hydrogen-3	Ci	4.04 E-01	1.90 E-01	N/A	N/A

TABLE 5
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
GASEOUS EFFLUENT – GROUND LEVEL RELEASES 3/4 QUARTERS

A. FISSION GASES

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Kr-85m	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Kr-88	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Xe-133	Ci	4.81 E-01	1.29 E+00	N/A	N/A
Xe-135	Ci	1.34 E+00	1.53 E+00	N/A	N/A
Xe-135m	Ci	0.00 E+00	0.000E+00	N/A	N/A
Total For Period	Ci	1.82 E+00	2.82 E+00	N/A	N/A

B. IODINES

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Iodine-131	Ci	1.54 E-06	0.00 E+00	N/A	N/A
Iodine-133	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Total For Period	Ci	1.54 E-06	0.00 E+00	N/A	N/A

C. PARTICULATES

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Mn-54	Ci	7.50 E-06	9.72 E-06	N/A	N/A
Co-58	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Fe-59	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Co-60	Ci	2.38 E-05	3.23 E-05	N/A	N/A
Zn-65	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Sr-89	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Ba-140	Ci	0.00 E+00	0.00 E+00	N/A	N/A
Total For Period	Ci	3.13 E-05	4.20 E-05	N/A	N/A

D. TRITIUM

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Hydrogen-3	Ci	3.49 E-01	7.23 E-01	N/A	N/A

TABLE 6

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
LIQUID EFFLUENT - SUMMATION OF ALL RELEASES 1/2 QUARTERS**

	Unit	Quarter 1	Quarter 2	Est. Total Error %
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A. Fission and activation products

1. Total release (not including tritium, gases, alpha)	Ci	6.80 E-02	9.37 E-02	1.42 E+01
2. Average diluted concentration during period	uCi/ml	6.35 E-08	6.98 E-08	
3. Percent of applicable limit (1)	%	8.2 E-01	9.8 E-01	

B. Tritium

1. Total release	Ci	6.73 E+00	3.17 E+00	1.42 E+01
2. Average diluted concentration during period	uCi/ml	6.28 E-06	2.36 E-06	
3. Percent of applicable limit (1)	%	6.3 E-01	2.4 E-01	

C. Dissolved and entrained gases

1. Total release	Ci	1.65 E-02	9.96 E-03	1.42 E+01
2. Average diluted concentration during period	uCi/ml	1.54 E-08	7.42 E-09	
3. Percent of applicable limit (2)	%	7.7 E-03	3.7 E-03	

D. Gross alpha radioactivity

1. Total release	Ci	0.0 E+00	0.0 E+00	1.42 E+01
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Unit	Quarter 1	Quarter 2	Est. Total Error %
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E. Volume of waste released (prior to dilution)

Liters	3.39 E+06	2.36 E+06	8.73 E-01
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F. Volume of dilution water

Liters	1.07 E+09	1.34 E+09	5.70 E-01
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(1) 10CFR20, Appendix B, Table 2, Column 2.

(2) Technical Requirement 3.11.1.1 limit of 2.00E-04 uCi/ml for dissolved or entrained noble gases in liquid effluent.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
LIQUID EFFLUENT 1/2 QUARTERS
TABLE 6 (CONTINUED)

A. Fission & Activation Products		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Sodium-24	Ci	0.00 E+00	0.00 E+00	0.00 E+00	4.49 E-06
Chromium-51	Ci	0.00 E+00	0.00 E+00	6.56 E-03	3.87 E-03
Manganese-54	Ci	0.00 E+00	0.00 E+00	1.92 E-02	3.76 E-02
Manganese-56	Ci	0.00 E+00	0.00 E+00	0.00 E+00	5.26 E-06
Iron-55	Ci	0.00 E+00	0.00 E+00	5.38 E-03	6.16 E-03
Iron-59	Ci	0.00 E+00	0.00 E+00	4.99 E-03	7.25 E-03
Cobalt-58	Ci	0.00 E+00	0.00 E+00	6.84 E-04	1.03 E-03
Cobalt-60	Ci	0.00 E+00	0.00 E+00	1.48 E-02	2.96 E-02
Zinc-65	Ci	0.00 E+00	0.00 E+00	1.30 E-03	2.46 E-03
Strontium-89	Ci	0.00 E+00	0.00 E+00	0.00 E+00	1.58 E-04
Strontium-91	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Strontium-92	Ci	0.00 E+00	0.00 E+00	1.21 E-03	7.54 E-04
Yttrium-92	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Zirconium-95	Ci	0.00 E+00	0.00 E+00	7.32 E-05	2.52 E-04
Zirconium-97	Ci	0.00 E+00	0.00 E+00	7.18 E-05	0.00 E+00
Niobium-95	Ci	0.00 E+00	0.00 E+00	3.16 E-04	5.73 E-04
Niobium-97	Ci	0.00 E+00	0.00 E+00	6.28 E-05	2.12 E-05
Molybdenum-99	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Technetium-99m	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Ruthenium-103	Ci	0.00 E+00	0.00 E+00	2.60 E-05	9.61 E-06
Ruthenium-105	Ci	0.00 E+00	0.00 E+00	1.19 E-04	0.00 E+00
Silver-110m	Ci	0.00 E+00	0.00 E+00	2.57 E-03	1.61 E-03
Tin-113	Ci	0.00 E+00	0.00 E+00	1.33 E-04	3.54 E-04
Antimony-124	Ci	0.00 E+00	0.00 E+00	2.86 E-04	6.69 E-04
Iodine-131	Ci	0.00 E+00	0.00 E+00	8.43 E-04	3.49 E-05
Iodine-133	Ci	0.00 E+00	0.00 E+00	1.42 E-04	5.84 E-05
Cesium-134	Ci	0.00 E+00	0.00 E+00	0.00 E+00	2.12 E-06
Cesium-137	Ci	0.00 E+00	0.00 E+00	1.29 E-05	4.30 E-05
Barium-140	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Lanthanum-140	Ci	0.00 E+00	0.00 E+00	8.73 E-03	1.09 E-03
Lanthanum-142	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Cerium-141	Ci	0.00 E+00	0.00 E+00	4.88 E-04	6.49 E-05
Neptunium-239	Ci	0.00 E+00	0.00 E+00	1.05 E-05	0.00 E+00
TOTALS	Ci	0.00 E+00	0.00 E+00	6.79 E-02	9.40 E-02

B. Tritium		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Hydrogen-3	Ci	0.00E+00	0.00E+00	6.73 E+00	3.17 E+00

C. Dissolved & Entrained Gases		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Xenon-133	Ci	0.00 E+00	0.00 E+00	1.19 E-02	6.29 E-03
Xenon-133m	Ci	0.00 E+00	0.00 E+00	2.91 E-04	1.20 E-04
Xenon-135	Ci	0.00 E+00	0.00 E+00	4.39 E-03	3.54 E-03
Xenon-135m	Ci	0.00 E+00	0.00 E+00	0.00 E+00	1.02 E-05
TOTALS	Ci	0.00E+00	0.00 E+00	1.66 E-02	9.96 E-03

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
LIQUID EFFLUENT 1/2 QUARTERS
TABLE 6 (CONTINUED)**

D. Gross Alpha Activity		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 1	Quarter 2	Quarter 1	Quarter 2
Total Release	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00

TABLE 6

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
LIQUID EFFLUENT - SUMMATION OF ALL RELEASES 3/4 QUARTERS**

	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	1.37 E-02	1.10 E-03	1.42 E+01
2. Average diluted concentration during period	uCi/ml	1.06 E-08	7.97 E-10	
3. Percent of applicable limit (1)	%	8.5 E-02	9.6 E-03	

B. Tritium

1. Total release	Ci	4.34 E+00	2.65 E+00	1.42 E+01
2. Average diluted concentration during period	uCi/ml	3.37E-06	1.91 E-06	
3. Percent of applicable limit (1)	%	3.4 E-01	1.9 E-01	

C. Dissolved & Entrained Gases

1. Total release	Ci	1.63 E-02	8.43 E-03	1.42 E+01
2. Average diluted concentration during period	uCi/ml	1.26 E-08	6.08 E-09	
3. Percent of applicable limit (2)	%	6.3 E-03	3.0 E-03	

D. Gross alpha radioactivity

1. Total release	Ci	0.00 E+00	0.00 E+00	1.42 E+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	2.59 E+06	8.53 E+05	8.73 E-01
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F. Volume of dilution water

Liters	1.29 E+09	1.39 E+09	5.70 E-01
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(1) 10CFR20, Appendix B, Table 2, Column 2.

(2) Technical Requirement 3.11.1.1 limit of 2.00E-04 uCi/ml for dissolved or entrained noble gases in liquid effluent.

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
LIQUID EFFLUENT 3/4 QUARTERS
TABLE 6 (CONTINUED)**

A. Fission & Activation Products		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Sodium-24	Ci	0.00 E+00	0.00 E+00	9.01 E-04	0.00 E+00
Chromium-51	Ci	0.00 E+00	0.00 E+00	4.56 E-04	0.00 E+00
Manganese-54	Ci	0.00 E+00	0.00 E+00	1.93 E-03	2.72 E-04
Manganese-56	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Iron-55	Ci	0.00 E+00	0.00 E+00	5.47 E-03	4.35 E-04
Iron-59	Ci	0.00 E+00	0.00 E+00	1.33 E-04	0.00 E+00
Cobalt-58	Ci	0.00 E+00	0.00 E+00	8.22 E-05	0.00 E+00
Cobalt-60	Ci	0.00 E+00	0.00 E+00	2.16 E-03	3.34 E-04
Zinc-65	Ci	0.00 E+00	0.00 E+00	7.63 E-05	0.00E+00
Strontium-89	Ci	0.00 E+00	0.00 E+00	8.91 E-05	5.54 E-05
Strontium-91	Ci	0.00 E+00	0.00 E+00	6.28 E-04	0.00 E+00
Strontium-92	Ci	0.00 E+00	0.00 E+00	9.69 E-05	0.00 E+00
Yttrium-92	Ci	0.00 E+00	0.00 E+00	5.51 E-04	0.00 E+00
Zirconium-95	Ci	0.00 E+00	0.00 E+00	0.00E+00	0.00 E+00
Zirconium-97	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Niobium-95	Ci	0.00 E+00	0.00 E+00	8.21 E-06	0.00 E+00
Niobium-97	Ci	0.00 E+00	0.00 E+00	2.20 E-05	0.00 E+00
Molybdenum-99	Ci	0.00 E+00	0.00 E+00	1.70 E-5	0.00 E+00
Technetium-99m	Ci	0.00 E+00	0.00 E+00	1.72 E-05	0.00 E+00
Ruthenium-103	Ci	0.00 E+00	0.00 E+00	2.80 E-06	0.00 E+00
Ruthenium-105	Ci	0.00 E+00	0.00 E+00	1.02 E-04	0.00 E+00
Silver-110m	Ci	0.00 E+00	0.00 E+00	1.06 E-04	2.66 E-06
Tin-113	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Antimony-124	Ci	0.00 E+00	0.00 E+00	5.91 E-06	0.00 E+00
Iodine-131	Ci	0.00 E+00	0.00 E+00	3.03 E-05	0.00 E+00
Iodine-133	Ci	0.00 E+00	0.00 E+00	2.60 E-05	0.00 E+00
Cesium-134	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Cesium-137	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Barium-140	Ci	0.00 E+00	0.00 E+00	3.35 E-04	0.00 E+00
Lanthanum-140	Ci	0.00 E+00	0.00 E+00	3.87 E-04	5.11 E-06
Cerium-141	Ci	0.00 E+00	0.00 E+00	2.23 E-05	0.00 E+00
Neptunium-239	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
TOTALS	Ci	0.00 E+00	0.00 E+00	1.37 E-02	1.11 E-03

B. Tritium		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Hydrogen-3	Ci	0.00 E+00	0.00 E+00	4.34 E+00	2.65 E+00

C. Dissolved & Entrained Gases		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Xenon-133	Ci	0.00 E+00	0.00 E+00	8.01 E-03	2.80 E-03
Xenon-133m	Ci	0.00 E+00	0.00 E+00	2.00 E-04	3.98 E-05
Xenon-135	Ci	0.00 E+00	0.00 E+00	8.06 E-03	5.59 E-03
Xenon-135m	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
TOTALS	Ci	0.00 E+00	0.00 E+00	1.63 E-02	8.43 E-03

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT 2000 YEAR
LIQUID EFFLUENT 3/4 QUARTERS
TABLE 6 (CONTINUED)**

D. Gross Alpha Activity		Continuous Mode		Batch Mode	
Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
Total Release	Ci	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00

TABLE 7
Effluent and Waste Disposal Annual Report 2000 Year
Solid Waste and Irradiated Fuel Shipments
Reporting Period from 01/01/00 to 12/31/00

A. Solid Waste Shipped for Burial or Disposal (Not Irradiated Fuel)

<u>Type of Waste</u>	<u>Units</u>	<u>12 Month Period</u>	<u>Waste Class</u>	<u>Estimated Error %</u>
Spent Resins, Filter Sludges, Evaporator Bottoms, <u>Etc.</u>	m ³ Ci	168 2086	AS	See Below
Dry Compressible Wastes, Contaminated Equipment <u>Etc.</u>	m ³ Ci	55 11	AU	See Below
Irradiated Components, Control Rods, <u>Etc.</u>	m ³ Ci	5 63,280	C	See Below
Other	m ³ Ci	N/A	N/A	N/A

Note: Volume considered to be the total disposal volume of the container.

Radwaste Estimated Error %:

Waste types considered are processed solid waste (i.e. resin, filter media) Etc., non-compactable/compactable dry active waste Etc. and Irradiated Components, Control Rods, Etc.

1. Possible Errors

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

2. Volume Error

Level indication for processed resins 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. Volume error is not applicable to dry active waste.

3. Representative Sampling Error

Sampling error for processed resins are based upon obtaining a representative sample from the waste being processed using an iso-lock sampler. Sampling error from dry active waste is based upon obtaining a representative sample from the material being packaged. This

TABLE 7
Effluent and Waste Disposal Annual Report 2000 Year
Solid Waste and Irradiated Fuel Shipments
Reporting Period from 01/01/00 to 12/31/00
(Continued)

error is estimated to be +/- 10% for all waste types, which is consistent with industry standards.

4. Instrument/Counting Error

The error caused by sample geometry, counting time, sample activity and instrument background is estimated to be +/- 10%. The error for radiological survey instrumentation is estimated to be +/- 20%. This error is applicable to all waste types.

5. Dose to Curie Calculations Error

The Dose to Curie method used to calculate activity suffers from analytical accuracy in that certain important parameters are neglected. These parameters are geometry of package, measuring instrument characteristics, build-up, internal attenuation effect, and external media attenuation. An activity correction factor is applied to provide adjustment for these factors. This error is applicable to all waste types.

Table 7
Effluent and Waste Disposal Annual Report 2000 Year
Solid Waste and Irradiated Fuel Shipments
Reporting Period from 01/01/00 to 12/31/00
(continued)

2. Estimates of Major Nuclides by Waste Stream

Resins, Filters and Evaporator Bottoms, Etc.		Dry Compressible Wastes, Contaminated Equipment, Etc.		Irradiated Components, Control Rods, Etc.	
Isotope Abundance	%	Isotope Abundance	%	Isotope Abundance	%
H-3	0.017	C-14	0.001	C-14	0.007
C-14	0.199	Mn-54	6.330	Mn-54	0.065
Cr-51	0.014	Fe-55	76.769	Fe-55	26.630
Mn-54	8.828	Fe-59	0.087	Co-60	68.049
Fe-55	63.027	Co-60	15.258	Ni-59	0.034
Fe-59	0.076	Ni-63	0.078	Ni-63	5.215
Co-58	0.025	Zn-65	0.951		
Co-60	17.603	Sr-90	0.003		
Ni-59	0.005	Cs-137	0.513		
Ni-63	0.810	Ce-144	0.008		
Zn-65	5.038	Pu-241	0.002		
Sr-89	0.005				
Sr-90	0.082				
Ag-110m	0.149				
I-131	0.002				
Cs-134	1.300				
Cs-137	2.446				
Ba-140	0.003				
La-140	0.002				
Ce-144	0.358				
Pu-241	0.009				
Cm-243	0.001				

Determined by Measurement & Correlation.

Packaged in Strong, Tight Liners.

No Solidification Agent or Absorbent Used.

Table 7
Effluent and Waste Disposal Annual Report 2000 Year
Solid Waste and Irradiated Fuel Shipments
Reporting Period from 01/01/00 to 12/31/00
(continued)

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
57	Truck	Barnwell, SC
47	Truck	Clive, UT

B. Irradiated Fuel Shipped in 2000.

Irradiated Fuel Shipments Disposition

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

TABLE 8
Effluent and Waste Disposal Annual Report 2000 Year
Maximum Individual Doses Due to
Noble Gas Releases
2000

	Critical Sector	Critical Distance	Gamma Dose * (mrad)	Beta Dose * (mrad)
1st Quarter	WNW	994m	2.62 E-03	4.48 E-03
2nd Quarter	WNW	994m	3.01 E-03	5.12 E-03
3rd Quarter	WNW	994m	4.31 E-03	5.81 E-03
4th Quarter	WNW	994m	8.00 E-03	1.13 E-02
Annual Total	WNW	994m	1.75 E-02	2.61 E-02

* All age groups equally exposed

TABLE 9
Effluent and Waste Disposal Annual Report 2000 Year
Maximum Individual Doses Due To
Gaseous Releases (H3, Radioiodines and Particulates)
2000

Significant Organ Dose (mrem)					
	Critical Sector	Critical * Distance	Critical Age Group	Critical Organ	Critical Dose
1st Quarter	WNW	994m	Child	Thyroid	7.67 E-02
2nd Quarter	WNW	994m	Child	Thyroid	2.09 E-02
3rd Quarter	WNW	994m	Child	Thyroid	4.56 E-02
4th Quarter	WNW	994m	Child	Thyroid	3.40 E-02
Annual Total	WNW	994m	Child	Thyroid	1.76 E-01

TABLE 10
Effluent and Waste Disposal Annual Report 2000 Year
Maximum Individual Doses Due to Liquid Releases
2000

Critical Receptor: Edge of Initial Mixing Zone

	Total Body Dose (mrem)		Significant Organ Dose (mrem)		
	Critical Age	Dose	Critical Age	Critical Organ	Dose
1st Quarter	Adult	2.12 E-03	Adult	GI Tract	3.22 E-02
2nd Quarter	Adult	2.30 E-03	Adult	GI Tract	3.39 E-02
3rd Quarter	Adult	1.29 E-04	Adult	GI Tract	1.87 E-03
4th Quarter	Adult	5.28 E-06	Adult	GI Tract	7.74 E-05
Annual Total	Adult	4.55 E-03	Adult	GI Tract	6.81 E-02

TABLE 11
Effluent and Waste Disposal Annual Report 2000 Year
ASSUMPTIONS/PARAMETERS FOR DOSES TO A
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	1.25E+02 ⁽²⁾
Lawn Service Provider	General Services Building	115	ENE	5.20E+02 ⁽³⁾
People Entering Site Without Consent	Alligator Bayou	2500	SW	4.00E+01

- (1) The approximate distance from main plant vent exhaust to location.
- (2) 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.
- (3) Lawn Service Provider works around the General Services Building lawn eight hours per day, 5 days per week, 13 weeks per year.
- (4) Liquid pathways dose is not considered due to the nature of activities that individuals are engaged in.

TABLE 12
Effluent and Waste Disposal Annual Report 2000 Year
DOSES TO MEMBERS OF THE PUBLIC ON SITE
FROM GASEOUS RELEASES 2000

MEMBER OF THE PUBLIC	RECEPTOR LOCATION	QUARTER	CRITICAL AGE GROUP	CRITICAL ORGAN	CRITICAL ORGAN DOSE (MREM)	TOTAL BODY DOSE (MREM)
Private Drivers	North Parking Lot at 275 m. N	1st Quarter	Child	Thyroid	7.19E-04	2.99E-04
		2nd Quarter	Child	Thyroid	3.93E-04	2.49E-04
		3rd Quarter	Child	Thyroid	4.54E-04	1.68E-04
		4th Quarter	Child	Thyroid	4.64E-04	2.36E-04
		Annual Total	Child	Thyroid	2.03E-03	9.52E-04
Lawn Service Provider	Services Building 115 m. ENE	1st Quarter	Adult	Thyroid	5.04E-03	1.91E-03
		2nd Quarter	Adult	Thyroid	2.59E-03	1.58E-03
		3rd Quarter	Adult	Thyroid	3.13E-03	1.24E-03
		4th Quarter	Adult	Thyroid	4.26E-03	1.86E-03
		Annual Total	Adult	Thyroid	2.48E-02	6.12E-03
People Entering Site Without Consent	Alligator Bayou 2500 m. SW	1st Quarter	Child	Thyroid	5.16E-06	1.48E-06
		2nd Quarter	Child	Thyroid	2.27E-06	1.05E-06
		3rd Quarter	Child	Thyroid	3.37E-06	8.52E-07
		4th Quarter	Child	Thyroid	3.24E-06	1.22E-06
		Annual Total	Child	Thyroid	1.40E-05	4.60E-06

Table 13
Effluent and Waste Disposal Annual Report 2000 Year
Meteorological Data - Joint Frequency Tables

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	3	3	9	16	31	64	46	0	0	0	0	0	172
NNE	12	11	9	40	23	46	14	0	0	0	0	0	155
NE	11	7	10	24	32	49	2	0	0	0	0	0	135
ENE	17	36	25	32	21	37	11	0	0	0	0	0	179
E	8	20	22	15	26	14	0	0	0	0	0	0	105
ESE	2	15	28	19	35	37	1	0	0	0	0	0	137
SE	2	2	16	39	46	77	22	0	0	0	0	0	204
SSE	4	1	8	15	25	50	56	9	0	0	0	0	168
S	0	2	5	31	43	81	66	11	0	0	0	0	239
SSW	0	1	5	33	24	41	46	8	0	0	0	0	158
SW	0	4	5	17	23	51	14	0	0	0	0	0	114
WSW	0	3	10	16	10	21	4	0	0	0	0	0	64
W	1	8	5	12	7	15	4	0	0	0	0	0	52
WNW	2	6	15	9	7	10	3	0	0	0	0	0	52
NW	1	16	10	13	6	17	21	0	0	0	0	0	84
NNW	3	7	11	9	16	40	48	2	0	0	0	0	136
TOTAL	66	142	193	340	375	650	358	30	0	0	0	0	2154

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 30
NUMBER OF VALID HOURS: 2154
TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	3	7	0	0	0	0	0	10
NNE	0	0	0	0	0	4	6	0	0	0	0	0	10
NE	0	0	0	0	0	6	0	0	0	0	0	0	6
ENE	0	0	0	0	2	11	4	0	0	0	0	0	17
E	0	0	0	0	1	6	0	0	0	0	0	0	7
ESE	0	0	0	0	6	24	1	0	0	0	0	0	31
SE	0	0	0	0	2	25	8	0	0	0	0	0	35
SSE	0	0	0	0	0	3	6	6	0	0	0	0	15
S	0	0	0	0	0	1	12	5	0	0	0	0	18
SSW	0	0	0	1	0	6	4	3	0	0	0	0	14
SW	0	0	0	0	0	0	1	0	0	0	0	0	1
WSW	0	0	0	0	0	0	1	0	0	0	0	0	1
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	2	1	0	0	0	0	3
TOTAL	0	0	0	1	11	89	52	15	0	0	0	0	168

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 168
TOTAL HOURS FOR THE PERIOD: 168

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	2	12	10	0	0	0	0	0	24
NNE	0	0	0	0	2	5	2	0	0	0	0	0	9
NE	0	0	0	0	4	3	0	0	0	0	0	0	7
ENE	0	0	0	0	1	1	0	0	0	0	0	0	2
E	0	0	0	1	6	1	0	0	0	0	0	0	8
ESE	0	0	0	1	5	1	0	0	0	0	0	0	7
SE	0	0	0	0	4	4	1	0	0	0	0	0	9
SSE	0	0	0	0	2	1	9	1	0	0	0	0	13
S	0	0	0	0	1	11	13	2	0	0	0	0	27
SSW	0	0	0	0	0	7	9	3	0	0	0	0	19
SW	0	0	0	0	0	29	2	0	0	0	0	0	31
WSW	0	0	0	0	0	6	0	0	0	0	0	0	6
W	0	0	0	0	0	2	3	0	0	0	0	0	5
WNW	0	0	0	0	0	1	0	0	0	0	0	0	1
NW	0	0	0	0	0	0	2	0	0	0	0	0	2
NNW	0	0	0	0	0	4	17	0	0	0	0	0	21
TOTAL	0	0	0	2	27	88	68	6	0	0	0	0	191

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 191
TOTAL HOURS FOR THE PERIOD: 191

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	1	4	7	0	0	0	0	0	12
NNE	0	0	0	2	1	1	0	0	0	0	0	0	4
NE	0	0	0	0	1	1	0	0	0	0	0	0	2
ENE	0	0	0	1	3	3	0	0	0	0	0	0	7
E	0	0	0	0	1	0	0	0	0	0	0	0	1
ESE	0	0	0	0	3	1	0	0	0	0	0	0	4
SE	0	0	0	0	3	2	0	0	0	0	0	0	5
SSE	0	0	0	1	1	0	2	0	0	0	0	0	4
S	0	0	0	0	2	3	5	3	0	0	0	0	13
SSW	0	0	0	0	0	3	7	1	0	0	0	0	11
SW	0	0	0	0	4	7	2	0	0	0	0	0	13
WSW	0	0	0	0	0	4	1	0	0	0	0	0	5
W	0	0	0	0	0	2	0	0	0	0	0	0	2
WNW	0	0	0	0	1	0	0	0	0	0	0	0	1
NW	0	0	0	0	0	2	4	0	0	0	0	0	6
NNW	0	0	0	0	1	3	4	0	0	0	0	0	8
TOTAL	0	0	0	4	22	36	32	4	0	0	0	0	98

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 98
TOTAL HOURS FOR THE PERIOD: 98

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS D

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	1	19	39	20	0	0	0	0	0	79
NNE	0	1	0	5	6	17	3	0	0	0	0	0	32
NE	0	0	0	1	3	16	0	0	0	0	0	0	20
ENE	0	0	3	8	4	13	3	0	0	0	0	0	31
E	0	0	0	2	8	6	0	0	0	0	0	0	16
ESE	0	0	1	10	9	7	0	0	0	0	0	0	27
SE	0	0	0	9	15	21	8	0	0	0	0	0	53
SSE	0	0	3	3	7	23	30	2	0	0	0	0	68
S	0	0	1	7	9	23	25	1	0	0	0	0	66
SSW	0	0	0	11	7	14	20	1	0	0	0	0	53
SW	0	1	1	8	14	12	7	0	0	0	0	0	43
WSW	0	0	4	8	9	10	2	0	0	0	0	0	33
W	0	0	2	6	5	9	0	0	0	0	0	0	22
WNW	0	0	0	3	2	4	3	0	0	0	0	0	12
NW	0	1	0	4	2	11	15	0	0	0	0	0	33
NNW	0	0	1	1	7	26	24	0	0	0	0	0	59
TOTAL	0	3	16	87	126	251	160	4	0	0	0	0	647

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 647
TOTAL HOURS FOR THE PERIOD: 647

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	5	8	9	6	2	0	0	0	0	0	30
NNE	1	1	4	24	12	19	3	0	0	0	0	0	64
NE	1	0	4	13	17	16	2	0	0	0	0	0	53
ENE	0	3	4	9	6	6	4	0	0	0	0	0	32
E	0	3	7	10	10	1	0	0	0	0	0	0	31
ESE	0	5	16	6	10	4	0	0	0	0	0	0	41
SE	0	2	8	20	21	24	5	0	0	0	0	0	80
SSE	1	0	4	3	15	23	9	0	0	0	0	0	55
S	0	0	2	24	30	43	11	0	0	0	0	0	110
SSW	0	0	3	21	16	11	6	0	0	0	0	0	57
SW	0	0	2	9	5	3	2	0	0	0	0	0	21
WSW	0	3	5	7	1	1	0	0	0	0	0	0	17
W	0	3	2	4	2	2	1	0	0	0	0	0	14
WNW	0	1	7	3	3	4	0	0	0	0	0	0	18
NW	0	2	4	4	3	4	0	0	0	0	0	0	17
NNW	0	1	2	6	6	7	1	1	0	0	0	0	24
TOTAL	3	24	79	171	166	174	46	1	0	0	0	0	664

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 664
TOTAL HOURS FOR THE PERIOD: 664

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	2	6	0	0	0	0	0	0	0	0	8
NNE	2	1	3	7	2	0	0	0	0	0	0	0	15
NE	4	2	2	5	6	7	0	0	0	0	0	0	26
ENE	1	2	2	9	5	3	0	0	0	0	0	0	22
E	1	3	7	1	0	0	0	0	0	0	0	0	12
ESE	0	6	8	0	1	0	0	0	0	0	0	0	15
SE	0	0	4	8	1	1	0	0	0	0	0	0	14
SSE	0	1	1	7	0	0	0	0	0	0	0	0	9
S	0	2	2	0	1	0	0	0	0	0	0	0	5
SSW	0	1	1	0	1	0	0	0	0	0	0	0	3
SW	0	2	2	0	0	0	0	0	0	0	0	0	4
WSW	0	0	1	1	0	0	0	0	0	0	0	0	2
W	1	2	1	2	0	0	0	0	0	0	0	0	6
WNW	2	2	7	3	1	1	0	0	0	0	0	0	16
NW	1	5	0	4	1	0	0	0	0	0	0	0	11
NNW	1	3	5	2	1	0	0	0	0	0	0	0	12
TOTAL	13	32	48	55	20	12	0	0	0	0	0	0	180

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 180
TOTAL HOURS FOR THE PERIOD: 180

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	3	3	2	1	0	0	0	0	0	0	0	0	9
NNE	9	8	2	2	0	0	0	0	0	0	0	0	21
NE	6	5	4	5	1	0	0	0	0	0	0	0	21
ENE	16	31	16	5	0	0	0	0	0	0	0	0	68
E	7	14	8	1	0	0	0	0	0	0	0	0	30
ESE	2	4	3	2	1	0	0	0	0	0	0	0	12
SE	2	0	4	2	0	0	0	0	0	0	0	0	8
SSE	3	0	0	1	0	0	0	0	0	0	0	0	4
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	1	0	0	0	0	0	0	0	0	0	1
SW	0	1	0	0	0	0	0	0	0	0	0	0	1
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	3	0	0	0	0	0	0	0	0	0	0	3
WNW	0	3	1	0	0	0	0	0	0	0	0	0	4
NW	0	8	6	1	0	0	0	0	0	0	0	0	15
NNW	2	3	3	0	1	0	0	0	0	0	0	0	9
TOTAL	50	83	50	20	3	0	0	0	0	0	0	0	206

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 206
TOTAL HOURS FOR THE PERIOD: 206

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	1	8	40	99	14	0	0	0	0	162
NNE	0	0	0	4	7	52	80	9	0	0	0	0	152
NE	0	0	0	4	3	28	91	8	0	0	0	0	134
ENE	0	0	0	4	8	31	67	36	2	0	0	0	148
E	0	1	1	4	14	39	56	6	3	0	0	0	124
ESE	0	0	1	9	6	46	106	31	5	0	0	0	204
SE	0	0	1	1	6	26	85	26	1	0	0	0	146
SSE	0	0	1	4	6	40	95	32	7	0	0	0	185
S	0	0	1	4	16	47	111	19	6	0	0	0	204
SSW	0	0	1	3	11	47	87	34	5	0	0	0	188
SW	0	0	0	0	6	51	68	10	0	0	0	0	135
WSW	0	0	0	4	9	47	25	5	0	0	0	0	90
W	0	0	0	3	7	15	22	2	0	0	0	0	49
WNW	0	0	0	2	6	11	19	8	1	0	0	0	47
NW	1	0	0	1	8	11	29	19	1	0	0	0	70
NNW	0	0	0	3	4	24	61	23	1	0	0	0	116
TOTAL	1	1	6	51	125	555	1101	282	32	0	0	0	2154

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 30
NUMBER OF VALID HOURS: 2154
TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	0	9	2	0	0	0	0	11
NNE	0	0	0	0	0	0	7	2	0	0	0	0	9
NE	0	0	0	0	0	1	5	0	0	0	0	0	6
ENE	0	0	0	0	0	1	12	6	0	0	0	0	19
E	0	0	0	0	0	6	9	0	1	0	0	0	16
ESE	0	0	0	0	0	4	31	4	0	0	0	0	39
SE	0	0	0	0	0	2	16	5	0	0	0	0	23
SSE	0	0	0	0	0	0	1	3	5	0	0	0	9
S	0	0	0	1	0	1	11	2	4	0	0	0	19
SSW	0	0	0	0	0	0	6	5	1	0	0	0	12
SW	0	0	0	0	0	0	0	1	0	0	0	0	1
WSW	0	0	0	0	0	0	0	1	0	0	0	0	1
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	1	0	0	0	1
NNW	0	0	0	0	0	0	0	2	0	0	0	0	2
TOTAL	0	0	0	1	0	15	107	33	12	0	0	0	168

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 168
TOTAL HOURS FOR THE PERIOD: 168

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	4	12	4	0	0	0	0	20
NNE	0	0	0	0	0	3	6	2	0	0	0	0	11
NE	0	0	0	0	0	5	4	0	0	0	0	0	9
ENE	0	0	0	0	0	4	2	0	0	0	0	0	6
E	0	0	0	0	0	2	2	1	0	0	0	0	5
ESE	0	0	0	1	0	10	1	0	0	0	0	0	12
SE	0	0	0	0	0	3	1	2	0	0	0	0	6
SSE	0	0	0	0	0	2	6	5	1	0	0	0	14
S	0	0	0	0	1	5	13	4	0	0	0	0	23
SSW	0	0	0	0	0	5	7	6	3	0	0	0	21
SW	0	0	0	0	0	1	27	2	0	0	0	0	30
WSW	0	0	0	0	0	0	7	1	0	0	0	0	8
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	5	0	0	0	0	5
NNW	0	0	0	0	0	0	9	8	0	0	0	0	17
TOTAL	0	0	0	1	1	44	101	40	4	0	0	0	191

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 191
TOTAL HOURS FOR THE PERIOD: 191

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	3	7	1	0	0	0	0	11
NNE	0	0	0	0	0	0	1	0	0	0	0	0	1
NE	0	0	0	1	1	2	1	0	0	0	0	0	5
ENE	0	0	0	0	1	1	3	1	0	0	0	0	6
E	0	0	0	0	1	0	1	0	0	0	0	0	2
ESE	0	0	0	0	0	3	3	1	0	0	0	0	7
SE	0	0	0	0	0	1	2	0	0	0	0	0	3
SSE	0	0	0	0	1	2	0	2	0	0	0	0	5
S	0	0	0	0	0	2	6	3	2	0	0	0	13
SSW	0	0	0	0	0	0	5	3	1	0	0	0	9
SW	0	0	0	0	1	6	4	1	0	0	0	0	12
WSW	0	0	0	0	0	1	3	2	0	0	0	0	6
W	0	0	0	0	0	1	2	0	0	0	0	0	3
WNW	0	0	0	0	0	1	0	0	0	0	0	0	1
NW	0	0	0	0	0	0	4	2	0	0	0	0	6
NNW	0	0	0	0	0	2	3	3	0	0	0	0	8
TOTAL	0	0	0	1	5	25	45	19	3	0	0	0	98

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 98
TOTAL HOURS FOR THE PERIOD: 98

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS D

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	1	5	15	39	6	0	0	0	0	66
NNE	0	0	0	2	4	8	23	3	0	0	0	0	40
NE	0	0	0	1	0	1	19	2	0	0	0	0	23
ENE	0	0	0	0	5	5	8	10	0	0	0	0	28
E	0	0	1	0	3	7	6	5	1	0	0	0	23
ESE	0	0	1	4	0	7	22	6	1	0	0	0	41
SE	0	0	0	1	3	4	22	9	0	0	0	0	39
SSE	0	0	1	2	1	9	29	21	1	0	0	0	64
S	0	0	0	1	3	14	23	9	0	0	0	0	50
SSW	0	0	0	1	9	10	27	13	0	0	0	0	60
SW	0	0	0	0	2	21	17	4	0	0	0	0	44
WSW	0	0	0	4	4	29	9	1	0	0	0	0	47
W	0	0	0	0	2	7	7	0	0	0	0	0	16
WNW	0	0	0	1	0	3	6	6	1	0	0	0	17
NW	0	0	0	0	2	3	18	11	0	0	0	0	34
NNW	0	0	0	1	2	9	33	10	0	0	0	0	55
TOTAL	0	0	3	19	45	152	308	116	4	0	0	0	647

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 647
 TOTAL HOURS FOR THE PERIOD: 647

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	9	21	1	0	0	0	0	31
NNE	0	0	0	1	1	29	34	2	0	0	0	0	67
NE	0	0	0	0	1	10	34	5	0	0	0	0	50
ENE	0	0	0	1	0	5	20	8	2	0	0	0	36
E	0	0	0	2	4	7	23	0	1	0	0	0	37
ESE	0	0	0	1	1	15	25	17	3	0	0	0	62
SE	0	0	0	0	1	7	26	10	1	0	0	0	45
SSE	0	0	0	0	1	12	45	1	0	0	0	0	59
S	0	0	0	1	5	15	53	1	0	0	0	0	75
SSW	0	0	0	0	0	26	41	7	0	0	0	0	74
SW	0	0	0	0	3	18	20	2	0	0	0	0	43
WSW	0	0	0	0	3	12	4	0	0	0	0	0	19
W	0	0	0	2	3	3	8	2	0	0	0	0	18
WNW	0	0	0	1	3	5	4	1	0	0	0	0	14
NW	0	0	0	0	1	3	6	1	0	0	0	0	11
NNW	0	0	0	1	0	8	13	0	1	0	0	0	23
TOTAL	0	0	0	10	27	184	377	58	8	0	0	0	664

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 664
 TOTAL HOURS FOR THE PERIOD: 664

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	5	9	0	0	0	0	0	14
NNE	0	0	0	0	0	7	8	0	0	0	0	0	15
NE	0	0	0	0	0	5	16	1	0	0	0	0	22
ENE	0	0	0	0	1	6	10	10	0	0	0	0	27
E	0	0	0	0	1	6	3	0	0	0	0	0	10
ESE	0	0	0	0	4	3	13	2	1	0	0	0	23
SE	0	0	1	0	1	0	9	0	0	0	0	0	11
SSE	0	0	0	0	0	3	7	0	0	0	0	0	10
S	0	0	1	0	1	4	3	0	0	0	0	0	9
SSW	0	0	0	0	2	2	0	0	0	0	0	0	4
SW	0	0	0	0	0	3	0	0	0	0	0	0	3
WSW	0	0	0	0	1	4	1	0	0	0	0	0	6
W	0	0	0	0	2	3	1	0	0	0	0	0	6
WNW	0	0	0	0	3	1	6	1	0	0	0	0	11
NW	0	0	0	0	1	1	0	0	0	0	0	0	2
NNW	0	0	0	0	1	3	3	0	0	0	0	0	7
TOTAL	0	0	2	0	18	56	89	14	1	0	0	0	180

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 180
TOTAL HOURS FOR THE PERIOD: 180

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

FROM 1/ 1/00 0:00 TO 3/31/00 23:00

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	3	4	2	0	0	0	0	0	9
NNE	0	0	0	1	2	5	1	0	0	0	0	0	9
NE	0	0	0	2	1	4	12	0	0	0	0	0	19
ENE	0	0	0	3	1	9	12	1	0	0	0	0	26
E	0	1	0	2	5	11	12	0	0	0	0	0	31
ESE	0	0	0	3	1	4	11	1	0	0	0	0	20
SE	0	0	0	0	1	9	9	0	0	0	0	0	19
SSE	0	0	0	2	3	12	7	0	0	0	0	0	24
S	0	0	0	1	6	6	2	0	0	0	0	0	15
SSW	0	0	1	2	0	4	1	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	1	1	0	0	0	0	0	3
W	0	0	0	1	0	1	1	0	0	0	0	0	3
WNW	0	0	0	0	0	1	2	0	0	0	0	0	3
NW	1	0	0	1	4	4	1	0	0	0	0	0	11
NNW	0	0	0	1	1	2	0	0	0	0	0	0	4
TOTAL	1	1	1	19	29	79	74	2	0	0	0	0	206

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 206
TOTAL HOURS FOR THE PERIOD: 206

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	15	18	15	12	17	28	16	1	0	0	0	0	122
NNE	5	8	9	12	14	22	1	0	0	0	0	0	71
NE	23	8	10	14	16	5	0	0	0	0	0	0	76
ENE	13	19	12	9	4	5	0	0	0	0	0	0	62
E	5	10	6	7	5	2	0	0	0	0	0	0	35
ESE	2	17	28	22	9	3	2	0	0	0	0	0	83
SE	4	17	42	87	51	41	13	0	0	0	0	0	255
SSE	1	7	22	43	60	92	73	0	0	0	0	0	298
S	2	11	15	48	76	123	100	0	0	0	0	0	375
SSW	2	1	15	34	24	40	20	0	0	0	0	0	136
SW	0	8	9	14	15	27	4	0	1	0	0	0	78
WSW	1	9	12	11	18	16	1	0	0	0	0	0	68
W	4	15	10	27	25	36	2	0	0	0	0	0	119
WNW	3	16	8	16	14	27	6	0	0	0	0	0	90
NW	6	17	14	12	17	29	25	0	0	0	0	0	120
NNW	15	23	5	18	17	21	33	2	0	0	0	0	134
TOTAL	101	204	232	386	382	517	296	3	1	0	0	0	2122

NUMBER OF CALMS: 3
NUMBER OF INVALID HOURS: 59
NUMBER OF VALID HOURS: 2125
TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	11	7	0	0	0	0	0	18
NNE	0	0	0	0	0	6	1	0	0	0	0	0	7
NE	0	0	0	0	1	1	0	0	0	0	0	0	2
ENE	0	0	0	0	2	5	0	0	0	0	0	0	7
E	0	0	0	0	2	2	0	0	0	0	0	0	4
ESE	0	0	0	0	2	2	2	0	0	0	0	0	6
SE	0	0	0	0	1	22	8	0	0	0	0	0	31
SSE	0	0	0	0	0	21	27	0	0	0	0	0	48
S	0	0	0	0	2	31	64	0	0	0	0	0	97
SSW	0	0	0	0	4	12	12	0	0	0	0	0	28
SW	0	0	0	0	1	8	1	0	1	0	0	0	11
WSW	0	0	0	0	0	5	0	0	0	0	0	0	5
W	0	0	0	0	0	8	2	0	0	0	0	0	10
WNW	0	0	0	0	0	1	5	0	0	0	0	0	6
NW	0	0	0	0	0	0	8	0	0	0	0	0	8
NNW	0	0	0	0	1	1	3	1	0	0	0	0	6
TOTAL	0	0	0	0	16	136	140	1	1	0	0	0	294

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 1
NUMBER OF VALID HOURS: 294
TOTAL HOURS FOR THE PERIOD: 295

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	3	1	1	0	0	0	0	5
NNE	0	0	0	1	0	1	0	0	0	0	0	0	2
NE	0	0	0	0	3	0	0	0	0	0	0	0	3
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	1	0	0	0	0	0	0	0	0	1
ESE	0	0	0	1	2	0	0	0	0	0	0	0	3
SE	0	0	0	1	4	3	0	0	0	0	0	0	8
SSE	0	0	0	1	5	8	16	0	0	0	0	0	30
S	0	0	0	1	7	9	14	0	0	0	0	0	31
SSW	0	0	0	1	2	9	6	0	0	0	0	0	18
SW	0	0	0	0	6	8	0	0	0	0	0	0	14
WSW	0	0	1	0	8	7	0	0	0	0	0	0	16
W	0	0	0	0	6	15	0	0	0	0	0	0	21
WNW	0	0	0	0	1	11	0	0	0	0	0	0	12
NW	0	0	0	0	0	7	11	0	0	0	0	0	18
NNW	0	0	0	0	1	4	17	1	0	0	0	0	23
TOTAL	0	0	1	7	45	85	65	2	0	0	0	0	205

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 205
 TOTAL HOURS FOR THE PERIOD: 205

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	1	4	0	0	0	0	0	0	5
NNE	0	0	0	0	1	4	0	0	0	0	0	0	5
NE	0	0	0	0	1	1	0	0	0	0	0	0	2
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	3	5	2	0	0	0	0	0	0	10
SSE	0	0	0	0	2	4	4	0	0	0	0	0	10
S	0	0	0	1	0	7	5	0	0	0	0	0	13
SSW	0	0	0	1	1	5	0	0	0	0	0	0	7
SW	0	0	0	2	1	3	1	0	0	0	0	0	7
WSW	0	0	0	2	4	2	0	0	0	0	0	0	8
W	0	0	0	2	5	9	0	0	0	0	0	0	16
WNW	0	0	0	1	0	4	1	0	0	0	0	0	6
NW	0	0	0	1	0	5	2	0	0	0	0	0	8
NNW	0	0	0	0	0	1	5	0	0	0	0	0	6
TOTAL	0	0	0	13	21	51	18	0	0	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 D

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	5	5	7	6	0	0	0	0	0	23
NNE	0	0	0	3	3	7	0	0	0	0	0	0	13
NE	0	0	4	3	0	2	0	0	0	0	0	0	9
ENE	0	1	1	1	1	0	0	0	0	0	0	0	4
E	0	2	0	2	1	0	0	0	0	0	0	0	5
ESE	0	3	1	8	4	0	0	0	0	0	0	0	16
SE	0	0	7	15	20	9	2	0	0	0	0	0	53
SSE	0	1	0	11	16	41	18	0	0	0	0	0	87
S	0	0	0	10	8	35	15	0	0	0	0	0	68
SSW	0	0	2	8	9	10	2	0	0	0	0	0	31
SW	0	0	1	4	5	8	1	0	0	0	0	0	19
WSW	0	0	4	8	5	2	0	0	0	0	0	0	19
W	0	1	2	20	11	4	0	0	0	0	0	0	38
WNW	0	0	2	10	7	10	0	0	0	0	0	0	29
NW	0	0	3	5	10	14	4	0	0	0	0	0	36
NNW	0	0	1	9	11	14	6	0	0	0	0	0	41
TOTAL	0	8	28	122	116	163	54	0	0	0	0	0	491

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 491
TOTAL HOURS FOR THE PERIOD: 491

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	5	4	3	9	3	2	0	0	0	0	0	26
NNE	1	1	1	2	10	4	0	0	0	0	0	0	19
NE	1	4	4	10	11	0	0	0	0	0	0	0	30
ENE	2	3	7	4	1	0	0	0	0	0	0	0	17
E	1	3	2	2	2	0	0	0	0	0	0	0	10
ESE	0	4	17	9	1	0	0	0	0	0	0	0	31
SE	0	11	26	56	17	2	2	0	0	0	0	0	114
SSE	0	3	13	26	36	16	6	0	0	0	0	0	100
S	2	6	11	33	57	41	2	0	0	0	0	0	152
SSW	1	0	11	20	8	4	0	0	0	0	0	0	44
SW	0	3	4	8	2	0	0	0	0	0	0	0	17
WSW	0	3	6	1	1	0	1	0	0	0	0	0	12
W	0	6	5	3	3	0	0	0	0	0	0	0	17
WNW	0	3	4	5	6	1	0	0	0	0	0	0	19
NW	0	2	4	4	6	3	0	0	0	0	0	0	19
NNW	1	3	3	4	4	1	2	0	0	0	0	0	18
TOTAL	9	60	122	190	174	75	15	0	0	0	0	0	645

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 645
TOTAL HOURS FOR THE PERIOD: 645

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	3	2	5	4	2	0	0	0	0	0	0	0	16
NNE	0	3	6	6	0	0	0	0	0	0	0	0	15
NE	4	3	1	1	0	0	0	0	0	0	0	0	9
ENE	1	4	2	3	0	0	0	0	0	0	0	0	10
E	0	5	3	1	0	0	0	0	0	0	0	0	9
ESE	0	7	9	1	0	0	0	0	0	0	0	0	17
SE	3	4	8	11	2	1	0	0	0	0	0	0	29
SSE	0	3	8	5	1	0	0	0	0	0	0	0	17
S	0	3	1	3	2	0	0	0	0	0	0	0	9
SSW	1	1	1	4	0	0	0	0	0	0	0	0	7
SW	0	4	4	0	0	0	1	0	0	0	0	0	9
WSW	0	5	0	0	0	0	0	0	0	0	0	0	5
W	2	5	2	2	0	0	0	0	0	0	0	0	11
WNW	0	5	1	0	0	0	0	0	0	0	0	0	6
NW	3	6	6	2	1	0	0	0	0	0	0	0	18
NNW	3	5	0	4	0	0	0	0	0	0	0	0	12
TOTAL	20	65	57	47	8	1	1	0	0	0	0	0	199

NUMBER OF CALMS: 1
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 200
TOTAL HOURS FOR THE PERIOD: 200

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	12	11	6	0	0	0	0	0	0	0	0	0	29
NNE	4	4	2	0	0	0	0	0	0	0	0	0	10
NE	18	1	1	0	0	1	0	0	0	0	0	0	21
ENE	10	11	2	1	0	0	0	0	0	0	0	0	24
E	4	0	1	1	0	0	0	0	0	0	0	0	6
ESE	2	3	1	3	0	1	0	0	0	0	0	0	10
SE	1	2	1	1	2	2	1	0	0	0	0	0	10
SSE	1	0	1	0	0	2	2	0	0	0	0	0	6
S	0	2	3	0	0	0	0	0	0	0	0	0	5
SSW	0	0	1	0	0	0	0	0	0	0	0	0	1
SW	0	1	0	0	0	0	0	0	0	0	0	0	1
WSW	1	1	1	0	0	0	0	0	0	0	0	0	3
W	2	3	1	0	0	0	0	0	0	0	0	0	6
WNW	3	8	1	0	0	0	0	0	0	0	0	0	12
NW	3	9	1	0	0	0	0	0	0	0	0	0	13
NNW	11	15	1	1	0	0	0	0	0	0	0	0	28
TOTAL	72	71	24	7	2	6	3	0	0	0	0	0	185

NUMBER OF CALMS: 2
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 187
TOTAL HOURS FOR THE PERIOD: 187

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	6	6	22	40	8	1	0	0	0	83
NNE	0	0	0	1	5	22	42	0	0	0	0	0	70
NE	0	0	1	8	6	13	36	6	0	0	0	0	70
ENE	0	0	0	5	12	24	17	6	0	0	0	0	64
E	0	0	0	9	16	31	17	0	0	0	0	0	73
ESE	0	0	0	7	15	48	154	10	1	0	0	0	235
SE	0	0	2	5	18	45	122	23	1	0	0	0	216
SSE	0	1	1	7	11	75	99	39	0	0	0	0	233
S	0	0	3	4	24	54	213	59	0	0	0	0	357
SSW	0	0	1	2	7	50	86	9	0	0	0	0	155
SW	0	0	1	2	11	41	35	1	0	0	0	0	91
WSW	0	0	1	4	15	61	20	0	0	0	0	0	101
W	1	0	1	5	13	54	45	1	0	0	0	0	120
WNW	0	0	1	5	9	21	33	3	0	0	0	0	72
NW	0	0	1	4	7	28	39	16	1	0	0	0	96
NNW	0	0	2	2	3	25	39	13	4	0	0	0	88
TOTAL	1	1	15	76	178	614	1037	194	8	0	0	0	2124

NUMBER OF CALMS: 1
NUMBER OF INVALID HOURS: 59
NUMBER OF VALID HOURS: 2125
TOTAL HOURS FOR THE PERIOD: 2184

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	2	10	3	0	0	0	0	15
NNE	0	0	0	0	0	3	5	0	0	0	0	0	8
NE	0	0	0	0	0	1	3	1	0	0	0	0	5
ENE	0	0	0	0	0	4	2	3	0	0	0	0	9
E	0	0	0	0	0	1	3	0	0	0	0	0	4
ESE	0	0	0	0	0	2	17	4	0	0	0	0	23
SE	0	0	0	0	0	1	24	8	0	0	0	0	33
SSE	0	0	0	0	0	4	12	16	0	0	0	0	32
S	0	0	0	0	0	5	48	41	0	0	0	0	94
SSW	0	0	0	0	0	4	18	2	0	0	0	0	24
SW	0	0	0	0	0	5	10	0	0	0	0	0	15
WSW	0	0	0	0	0	1	4	0	0	0	0	0	5
W	0	0	0	0	0	0	11	0	0	0	0	0	11
WNW	0	0	0	0	0	0	3	2	0	0	0	0	5
NW	0	0	0	0	0	0	1	5	0	0	0	0	6
NNW	0	0	0	0	0	1	1	1	2	0	0	0	5
TOTAL	0	0	0	0	0	34	172	86	2	0	0	0	294

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 1
NUMBER OF VALID HOURS: 294
TOTAL HOURS FOR THE PERIOD: 295

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	1	0	4	0	1	0	0	0	6
NNE	0	0	0	0	0	1	1	0	0	0	0	0	2
NE	0	0	0	1	0	2	0	0	0	0	0	0	3
ENE	0	0	0	0	0	2	0	0	0	0	0	0	2
E	0	0	0	0	1	1	0	0	0	0	0	0	2
ESE	0	0	0	0	0	5	3	1	0	0	0	0	9
SE	0	0	0	0	0	2	7	6	0	0	0	0	15
SSE	0	0	0	0	2	5	4	9	0	0	0	0	20
S	0	0	0	0	0	8	11	7	0	0	0	0	26
SSW	0	0	0	0	1	2	10	4	0	0	0	0	17
SW	0	0	0	0	1	7	7	0	0	0	0	0	15
WSW	0	0	0	0	2	12	6	0	0	0	0	0	20
W	0	0	0	0	0	12	12	0	0	0	0	0	24
WNW	0	0	0	0	0	0	8	1	0	0	0	0	9
NW	0	0	0	0	0	3	6	8	0	0	0	0	17
NNW	0	0	0	0	0	0	11	5	2	0	0	0	18
TOTAL	0	0	0	1	8	62	90	41	3	0	0	0	205

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 205
 TOTAL HOURS FOR THE PERIOD: 205

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	3	1	0	0	0	0	0	4
NNE	0	0	0	0	1	3	1	0	0	0	0	0	5
NE	0	0	0	0	0	0	1	0	0	0	0	0	1
ENE	0	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	0
ESE	0	0	0	0	1	0	4	1	0	0	0	0	6
SE	0	0	0	0	1	4	3	0	0	0	0	0	8
SSE	0	0	0	0	0	2	3	1	0	0	0	0	6
S	0	0	0	0	0	3	9	2	0	0	0	0	14
SSW	0	0	0	0	1	1	5	0	0	0	0	0	7
SW	0	0	0	0	2	1	4	0	0	0	0	0	7
WSW	0	0	0	0	3	8	1	0	0	0	0	0	12
W	0	0	0	0	1	8	6	0	0	0	0	0	15
WNW	0	0	0	0	0	0	4	0	0	0	0	0	4
NW	0	0	0	0	1	1	5	1	0	0	0	0	8
NNW	0	0	0	0	0	0	4	1	0	0	0	0	5
TOTAL	0	0	0	0	11	34	51	7	0	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 D

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	3	2	7	6	4	0	0	0	0	22
NNE	0	0	0	0	0	5	10	0	0	0	0	0	15
NE	0	0	0	3	2	1	0	1	0	0	0	0	7
ENE	0	0	0	0	3	3	2	1	0	0	0	0	9
E	0	0	0	3	0	7	3	0	0	0	0	0	13
ESE	0	0	0	4	2	9	25	3	1	0	0	0	44
SE	0	0	2	1	1	6	30	5	0	0	0	0	45
SSE	0	0	0	1	4	14	32	10	0	0	0	0	61
S	0	0	1	3	6	5	40	6	0	0	0	0	61
SSW	0	0	0	1	3	12	15	2	0	0	0	0	33
SW	0	0	0	1	3	8	8	0	0	0	0	0	20
WSW	0	0	1	1	6	13	6	0	0	0	0	0	27
W	0	0	0	2	10	17	9	0	0	0	0	0	38
WNW	0	0	1	2	4	10	12	0	0	0	0	0	29
NW	0	0	0	2	3	13	12	2	1	0	0	0	33
NNW	0	0	1	1	1	17	11	3	0	0	0	0	34
TOTAL	0	0	6	28	50	147	221	37	2	0	0	0	491

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 491
TOTAL HOURS FOR THE PERIOD: 491

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	2	2	3	10	1	0	0	0	0	18
NNE	0	0	0	1	3	5	15	0	0	0	0	0	24
NE	0	0	1	4	4	7	11	4	0	0	0	0	31
ENE	0	0	0	2	4	11	5	1	0	0	0	0	23
E	0	0	0	3	6	5	7	0	0	0	0	0	21
ESE	0	0	0	0	5	24	73	1	0	0	0	0	103
SE	0	0	0	0	6	18	41	4	1	0	0	0	70
SSE	0	0	0	3	3	31	43	3	0	0	0	0	83
S	0	0	2	0	6	25	89	1	0	0	0	0	123
SSW	0	0	0	0	1	21	30	1	0	0	0	0	53
SW	0	0	0	0	2	14	5	0	0	0	0	0	21
WSW	0	0	0	2	0	15	3	0	0	0	0	0	20
W	0	0	0	1	1	8	7	1	0	0	0	0	18
WNW	0	0	0	1	3	2	5	0	0	0	0	0	11
NW	0	0	1	0	1	3	8	0	0	0	0	0	13
NNW	0	0	0	0	1	3	6	3	0	0	0	0	13
TOTAL	0	0	4	19	48	195	358	20	1	0	0	0	645

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 645
TOTAL HOURS FOR THE PERIOD: 645

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	1	1	5	7	0	0	0	0	0	14
NNE	0	0	0	0	0	3	9	0	0	0	0	0	12
NE	0	0	0	0	0	1	6	0	0	0	0	0	7
ENE	0	0	0	1	2	3	2	0	0	0	0	0	8
E	0	0	0	2	4	9	2	0	0	0	0	0	17
ESE	0	0	0	1	3	3	27	0	0	0	0	0	34
SE	0	0	0	3	5	4	13	0	0	0	0	0	25
SSE	0	0	1	0	2	8	4	0	0	0	0	0	15
S	0	0	0	0	4	6	8	0	0	0	0	0	18
SSW	0	0	0	0	0	6	5	0	0	0	0	0	11
SW	0	0	0	1	2	5	1	1	0	0	0	0	10
WSW	0	0	0	0	2	8	0	0	0	0	0	0	10
W	1	0	0	0	0	4	0	0	0	0	0	0	5
WNW	0	0	0	0	0	3	0	0	0	0	0	0	3
NW	0	0	0	1	0	3	2	0	0	0	0	0	6
NNW	0	0	1	0	0	2	2	0	0	0	0	0	5
TOTAL	1	0	2	10	25	73	88	1	0	0	0	0	200

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 200
 TOTAL HOURS FOR THE PERIOD: 200

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	2	2	0	0	0	0	0	4
NNE	0	0	0	0	1	2	1	0	0	0	0	0	4
NE	0	0	0	0	0	1	15	0	0	0	0	0	16
ENE	0	0	0	2	3	1	6	0	0	0	0	0	12
E	0	0	0	1	5	8	2	0	0	0	0	0	16
ESE	0	0	0	2	4	5	5	0	0	0	0	0	16
SE	0	0	0	1	5	10	4	0	0	0	0	0	20
SSE	0	1	0	3	0	11	1	0	0	0	0	0	16
S	0	0	0	1	8	2	8	2	0	0	0	0	21
SSW	0	0	1	1	1	4	3	0	0	0	0	0	10
SW	0	0	1	0	1	1	0	0	0	0	0	0	3
WSW	0	0	0	1	2	4	0	0	0	0	0	0	7
W	0	0	1	2	1	5	0	0	0	0	0	0	9
WNW	0	0	0	2	2	6	1	0	0	0	0	0	11
NW	0	0	0	1	2	5	5	0	0	0	0	0	13
NNW	0	0	0	1	1	2	4	0	0	0	0	0	8
TOTAL	0	1	3	18	36	69	57	2	0	0	0	0	186

NUMBER OF CALMS: 1
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 187
 TOTAL HOURS FOR THE PERIOD: 187

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	11	20	10	33	13	24	17	0	0	0	0	0	128
NNE	10	21	14	34	45	34	3	0	0	0	0	0	161
NE	12	13	19	30	32	34	0	0	0	0	0	0	140
ENE	11	20	16	25	16	22	1	0	0	0	0	0	111
E	6	18	15	19	13	7	0	0	0	0	0	0	78
ESE	4	17	13	16	10	10	0	0	0	0	0	0	70
SE	2	9	18	34	44	28	1	0	0	0	0	0	136
SSE	0	11	5	21	19	32	5	0	0	0	0	0	93
S	2	3	7	36	38	27	7	0	0	0	0	0	120
SSW	1	11	20	52	25	19	1	0	0	0	0	0	129
SW	3	14	31	36	19	24	0	0	0	0	0	0	127
WSW	4	23	47	32	56	60	0	0	0	0	0	0	222
W	5	27	25	36	36	43	0	0	0	0	0	0	172
WNW	5	54	34	44	26	39	2	0	0	0	0	0	204
NW	13	54	28	23	8	22	8	0	0	0	0	0	156
NNW	15	22	24	20	15	27	14	0	0	0	0	0	137
TOTAL	104	337	326	491	415	452	59	0	0	0	0	0	2184

NUMBER OF CALMS: 1
NUMBER OF INVALID HOURS: 23
NUMBER OF VALID HOURS: 2185
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	2	4	0	0	0	0	0	6
NNE	0	0	0	0	1	7	1	0	0	0	0	0	9
NE	0	0	0	2	5	18	0	0	0	0	0	0	25
ENE	0	0	0	3	2	9	1	0	0	0	0	0	15
E	0	0	0	0	7	4	0	0	0	0	0	0	11
ESE	0	0	0	0	3	5	0	0	0	0	0	0	8
SE	0	0	0	0	10	14	0	0	0	0	0	0	24
SSE	0	0	0	0	2	12	1	0	0	0	0	0	15
S	0	0	0	3	8	6	4	0	0	0	0	0	21
SSW	0	0	0	0	6	4	1	0	0	0	0	0	11
SW	0	0	0	2	4	12	0	0	0	0	0	0	18
WSW	0	0	0	0	12	30	0	0	0	0	0	0	42
W	0	0	0	0	1	9	0	0	0	0	0	0	10
WNW	0	0	0	0	0	1	1	0	0	0	0	0	2
NW	0	0	0	0	0	0	1	0	0	0	0	0	1
NNW	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	0	0	0	10	61	133	15	0	0	0	0	0	219

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 219
TOTAL HOURS FOR THE PERIOD: 219

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	7	2	0	0	0	0	0	9
NNE	0	0	0	2	2	9	0	0	0	0	0	0	13
NE	0	0	0	5	2	6	0	0	0	0	0	0	13
ENE	0	0	0	7	4	1	0	0	0	0	0	0	12
E	0	0	1	5	4	1	0	0	0	0	0	0	11
ESE	0	0	1	4	2	0	0	0	0	0	0	0	7
SE	0	0	1	8	11	3	0	0	0	0	0	0	23
SSE	0	0	0	1	2	4	1	0	0	0	0	0	8
S	0	0	0	0	8	7	0	0	0	0	0	0	15
SSW	0	0	0	0	4	4	0	0	0	0	0	0	8
SW	0	0	0	3	5	3	0	0	0	0	0	0	11
WSW	0	0	0	2	26	23	0	0	0	0	0	0	51
W	0	0	0	6	13	26	0	0	0	0	0	0	45
WNW	0	0	0	2	9	29	1	0	0	0	0	0	41
NW	0	0	0	2	4	9	3	0	0	0	0	0	18
NNW	0	0	0	2	2	7	8	0	0	0	0	0	19
TOTAL	0	0	3	49	98	139	15	0	0	0	0	0	304

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 304
TOTAL HOURS FOR THE PERIOD: 304

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	1	2	0	0	0	0	0	0	3
NNE	0	0	0	2	4	3	1	0	0	0	0	0	10
NE	0	0	0	1	4	0	0	0	0	0	0	0	5
ENE	0	0	0	3	1	1	0	0	0	0	0	0	5
E	0	0	1	2	0	0	0	0	0	0	0	0	3
ESE	0	0	0	2	0	1	0	0	0	0	0	0	3
SE	0	0	1	2	3	1	0	0	0	0	0	0	7
SSE	0	0	0	2	1	5	1	0	0	0	0	0	9
S	0	0	0	1	0	2	1	0	0	0	0	0	4
SSW	0	0	0	0	2	2	0	0	0	0	0	0	4
SW	0	0	0	2	2	2	0	0	0	0	0	0	6
WSW	0	0	0	5	4	2	0	0	0	0	0	0	11
W	0	0	0	4	11	7	0	0	0	0	0	0	22
WNW	0	0	0	2	5	7	0	0	0	0	0	0	14
NW	0	0	0	1	1	7	1	0	0	0	0	0	10
NNW	0	0	0	2	1	6	2	0	0	0	0	0	11
TOTAL	0	0	2	31	40	48	6	0	0	0	0	0	127

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 127
TOTAL HOURS FOR THE PERIOD: 127

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS D

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	1	3	2	6	7	8	0	0	0	0	0	27
NNE	0	0	0	8	12	10	1	0	0	0	0	0	31
NE	1	1	6	8	14	7	0	0	0	0	0	0	37
ENE	1	1	5	8	8	8	0	0	0	0	0	0	31
E	0	1	3	7	1	2	0	0	0	0	0	0	14
ESE	0	5	2	6	4	4	0	0	0	0	0	0	21
SE	1	2	7	18	18	9	1	0	0	0	0	0	56
SSE	0	3	2	6	11	9	2	0	0	0	0	0	33
S	0	0	1	5	7	8	2	0	0	0	0	0	23
SSW	0	1	5	11	11	5	0	0	0	0	0	0	33
SW	0	1	3	8	6	5	0	0	0	0	0	0	23
WSW	0	0	8	12	14	3	0	0	0	0	0	0	37
W	0	2	2	19	10	1	0	0	0	0	0	0	34
WNW	0	3	6	19	9	2	0	0	0	0	0	0	39
NW	0	1	0	10	3	5	3	0	0	0	0	0	22
NNW	0	0	4	3	6	3	0	0	0	0	0	0	16
TOTAL	3	22	57	150	140	88	17	0	0	0	0	0	477

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 477
 TOTAL HOURS FOR THE PERIOD: 477

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	1	4	4	5	4	5	3	0	0	0	0	0	26
NNE	0	9	5	3	18	5	0	0	0	0	0	0	40
NE	1	5	9	7	6	3	0	0	0	0	0	0	31
ENE	1	7	7	2	1	3	0	0	0	0	0	0	21
E	2	6	4	3	0	0	0	0	0	0	0	0	15
ESE	2	6	9	2	0	0	0	0	0	0	0	0	19
SE	0	7	7	4	2	1	0	0	0	0	0	0	21
SSE	0	2	3	10	3	2	0	0	0	0	0	0	20
S	0	1	4	23	13	4	0	0	0	0	0	0	45
SSW	0	5	11	36	2	4	0	0	0	0	0	0	58
SW	1	5	21	17	2	2	0	0	0	0	0	0	48
WSW	1	10	23	10	0	2	0	0	0	0	0	0	46
W	1	7	12	4	1	0	0	0	0	0	0	0	25
WNW	0	17	12	14	3	0	0	0	0	0	0	0	46
NW	0	9	5	6	0	1	0	0	0	0	0	0	21
NNW	1	1	2	3	4	5	0	0	0	0	0	0	16
TOTAL	11	101	138	149	59	37	3	0	0	0	0	0	498

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 498
 TOTAL HOURS FOR THE PERIOD: 498

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	1	3	1	17	2	1	0	0	0	0	0	0	25
NNE	3	6	5	16	8	0	0	0	0	0	0	0	38
NE	2	3	3	6	1	0	0	0	0	0	0	0	15
ENE	6	5	3	2	0	0	0	0	0	0	0	0	16
E	3	9	5	2	1	0	0	0	0	0	0	0	20
ESE	2	6	1	1	1	0	0	0	0	0	0	0	11
SE	1	0	2	1	0	0	0	0	0	0	0	0	4
SSE	0	4	0	1	0	0	0	0	0	0	0	0	5
S	1	2	2	4	2	0	0	0	0	0	0	0	11
SSW	1	2	4	5	0	0	0	0	0	0	0	0	12
SW	2	4	6	4	0	0	0	0	0	0	0	0	16
WSW	1	8	10	2	0	0	0	0	0	0	0	0	21
W	3	9	8	2	0	0	0	0	0	0	0	0	22
WNW	1	17	9	4	0	0	0	0	0	0	0	0	31
NW	5	6	8	1	0	0	0	0	0	0	0	0	20
NNW	5	3	5	6	1	4	3	0	0	0	0	0	27
TOTAL	37	87	72	74	16	5	3	0	0	0	0	0	294

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 294
 TOTAL HOURS FOR THE PERIOD: 294

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	9	12	2	9	0	0	0	0	0	0	0	0	32
NNE	7	6	4	3	0	0	0	0	0	0	0	0	20
NE	8	4	1	1	0	0	0	0	0	0	0	0	14
ENE	3	7	1	0	0	0	0	0	0	0	0	0	11
E	1	2	1	0	0	0	0	0	0	0	0	0	4
ESE	0	0	0	1	0	0	0	0	0	0	0	0	1
SE	0	0	0	1	0	0	0	0	0	0	0	0	1
SSE	0	2	0	1	0	0	0	0	0	0	0	0	3
S	1	0	0	0	0	0	0	0	0	0	0	0	1
SSW	0	3	0	0	0	0	0	0	0	0	0	0	3
SW	0	4	1	0	0	0	0	0	0	0	0	0	5
WSW	2	5	6	1	0	0	0	0	0	0	0	0	14
W	1	9	3	1	0	0	0	0	0	0	0	0	14
WNW	4	17	7	3	0	0	0	0	0	0	0	0	31
NW	8	38	15	3	0	0	0	0	0	0	0	0	64
NNW	9	18	13	4	1	2	0	0	0	0	0	0	47
TOTAL	53	127	54	28	1	2	0	0	0	0	0	0	265

NUMBER OF CALMS: 1
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 266
 TOTAL HOURS FOR THE PERIOD: 266

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	2	8	17	53	9	0	0	0	0	89
NNE	0	1	2	9	10	28	81	3	0	0	0	0	134
NE	0	1	1	8	14	38	94	11	0	0	0	0	167
ENE	0	0	4	7	18	39	51	16	2	0	0	0	137
E	0	1	4	17	24	37	22	4	0	0	0	0	109
ESE	0	0	2	6	12	45	77	9	0	0	0	0	151
SE	0	1	0	4	17	43	47	6	0	0	0	0	118
SSE	0	0	1	6	15	34	23	6	0	0	0	0	85
S	0	0	4	4	3	38	48	4	0	0	0	0	101
SSW	0	0	1	6	15	90	49	0	0	0	0	0	161
SW	1	3	3	7	27	80	34	0	0	0	0	0	155
WSW	0	0	5	8	43	165	65	1	0	0	0	0	287
W	0	0	1	13	15	121	88	1	0	0	0	0	239
WNW	0	0	0	6	6	34	38	2	0	0	0	0	86
NW	0	1	3	3	8	35	20	7	0	0	0	0	77
NNW	0	0	0	5	9	26	44	5	0	0	0	0	89
TOTAL	1	8	31	111	244	870	834	84	2	0	0	0	2185

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 23
NUMBER OF VALID HOURS: 2185
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	0	3	0	0	0	0	0	3
NNE	0	0	0	0	0	1	9	0	0	0	0	0	10
NE	0	0	0	0	0	2	13	5	0	0	0	0	20
ENE	0	0	0	0	1	6	12	7	1	0	0	0	27
E	0	0	0	0	0	4	9	0	0	0	0	0	13
ESE	0	0	0	0	0	4	15	0	0	0	0	0	19
SE	0	0	0	0	0	6	11	0	0	0	0	0	17
SSE	0	0	0	0	1	3	4	2	0	0	0	0	10
S	0	0	0	1	1	8	5	2	0	0	0	0	17
SSW	0	0	0	0	1	11	3	0	0	0	0	0	15
SW	0	0	0	0	1	7	9	0	0	0	0	0	17
WSW	0	0	0	0	0	16	26	0	0	0	0	0	42
W	0	0	0	0	0	0	5	1	0	0	0	0	6
WNW	0	0	0	0	0	1	0	0	0	0	0	0	1
NW	0	0	0	0	0	0	0	1	0	0	0	0	1
NNW	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL	0	0	0	1	5	69	124	19	1	0	0	0	219

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 219
TOTAL HOURS FOR THE PERIOD: 219

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	1	5	0	0	0	0	0	6
NNE	0	0	0	0	1	5	6	0	0	0	0	0	12
NE	0	0	0	1	3	8	8	0	0	0	0	0	20
ENE	0	0	0	0	3	9	1	1	0	0	0	0	14
E	0	0	0	0	1	7	2	0	0	0	0	0	10
ESE	0	0	0	0	3	5	11	1	0	0	0	0	20
SE	0	0	0	2	1	5	5	0	0	0	0	0	13
SSE	0	0	0	0	0	3	3	0	0	0	0	0	6
S	0	0	0	0	0	5	6	0	0	0	0	0	11
SSW	0	0	0	0	0	6	4	0	0	0	0	0	10
SW	0	0	0	0	3	10	4	0	0	0	0	0	17
WSW	0	0	0	0	6	31	16	0	0	0	0	0	53
W	0	0	0	0	0	33	35	0	0	0	0	0	68
WNW	0	0	0	0	1	5	8	1	0	0	0	0	15
NW	0	0	0	0	0	4	7	2	0	0	0	0	13
NNW	0	0	0	0	3	2	11	0	0	0	0	0	16
TOTAL	0	0	0	3	25	139	132	5	0	0	0	0	304

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 304
 TOTAL HOURS FOR THE PERIOD: 304

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	1	2	0	0	0	0	0	3
NNE	0	0	0	1	2	4	3	1	0	0	0	0	11
NE	0	0	0	0	3	3	3	0	0	0	0	0	9
ENE	0	0	0	0	0	1	3	0	0	0	0	0	4
E	0	0	0	1	1	1	1	0	0	0	0	0	4
ESE	0	0	0	0	1	1	2	1	0	0	0	0	5
SE	0	0	0	0	0	1	5	1	0	0	0	0	7
SSE	0	0	0	0	1	0	1	1	0	0	0	0	3
S	0	0	0	0	0	1	2	1	0	0	0	0	4
SSW	0	0	0	1	1	2	3	0	0	0	0	0	7
SW	0	0	0	0	1	3	0	0	0	0	0	0	4
WSW	0	0	0	0	8	6	3	0	0	0	0	0	17
W	0	0	0	1	2	15	9	0	0	0	0	0	27
WNW	0	0	0	0	0	2	2	0	0	0	0	0	4
NW	0	0	0	0	2	5	4	1	0	0	0	0	12
NNW	0	0	0	1	0	3	1	1	0	0	0	0	6
TOTAL	0	0	0	5	22	49	44	7	0	0	0	0	127

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 127
 TOTAL HOURS FOR THE PERIOD: 127

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS D

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	1	3	3	8	6	0	0	0	0	21
NNE	0	0	0	2	6	6	10	2	0	0	0	0	26
NE	0	0	0	2	6	9	28	2	0	0	0	0	47
ENE	0	0	1	3	4	2	13	6	0	0	0	0	29
E	0	0	1	7	6	7	8	4	0	0	0	0	33
ESE	0	0	2	1	2	11	30	6	0	0	0	0	52
SE	0	1	0	0	5	8	12	5	0	0	0	0	31
SSE	0	0	0	2	2	3	6	2	0	0	0	0	15
S	0	0	1	1	0	6	10	1	0	0	0	0	19
SSW	0	0	1	3	3	15	9	0	0	0	0	0	31
SW	1	1	0	1	1	7	10	0	0	0	0	0	21
WSW	0	0	3	3	9	30	6	0	0	0	0	0	51
W	0	0	1	4	4	31	9	0	0	0	0	0	49
WNW	0	0	0	2	0	9	5	1	0	0	0	0	17
NW	0	0	1	1	2	5	4	3	0	0	0	0	16
NNW	0	0	0	3	2	8	6	0	0	0	0	0	19
TOTAL	1	2	11	36	55	160	174	38	0	0	0	0	477

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 477
 TOTAL HOURS FOR THE PERIOD: 477

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	1	1	4	8	3	0	0	0	0	17
NNE	0	0	1	1	1	4	17	0	0	0	0	0	24
NE	0	1	0	1	2	6	13	4	0	0	0	0	27
ENE	0	0	0	3	8	11	11	2	1	0	0	0	36
E	0	0	0	5	8	7	0	0	0	0	0	0	20
ESE	0	0	0	1	3	9	9	1	0	0	0	0	23
SE	0	0	0	1	4	11	7	0	0	0	0	0	23
SSE	0	0	1	2	5	14	5	1	0	0	0	0	28
S	0	0	3	0	2	11	20	0	0	0	0	0	36
SSW	0	0	0	1	3	35	25	0	0	0	0	0	64
SW	0	1	2	4	12	24	7	0	0	0	0	0	50
WSW	0	0	1	0	8	48	11	1	0	0	0	0	69
W	0	0	0	3	3	22	12	0	0	0	0	0	40
WNW	0	0	0	2	1	5	9	0	0	0	0	0	17
NW	0	0	0	1	2	5	2	0	0	0	0	0	10
NNW	0	0	0	0	1	6	7	0	0	0	0	0	14
TOTAL	0	2	8	26	64	222	163	12	1	0	0	0	498

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 498
 TOTAL HOURS FOR THE PERIOD: 498

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	1	14	0	0	0	0	0	15
NNE	0	0	0	2	0	3	31	0	0	0	0	0	36
NE	0	0	0	1	0	5	15	0	0	0	0	0	21
ENE	0	0	1	0	0	6	8	0	0	0	0	0	15
E	0	0	3	4	2	8	1	0	0	0	0	0	18
ESE	0	0	0	1	2	10	7	0	0	0	0	0	20
SE	0	0	0	1	6	4	5	0	0	0	0	0	16
SSE	0	0	0	1	6	2	2	0	0	0	0	0	11
S	0	0	0	1	0	4	5	0	0	0	0	0	10
SSW	0	0	0	1	5	12	5	0	0	0	0	0	23
SW	0	0	0	1	4	14	2	0	0	0	0	0	21
WSW	0	0	0	3	8	16	2	0	0	0	0	0	29
W	0	0	0	0	3	13	13	0	0	0	0	0	29
WNW	0	0	0	0	1	6	6	0	0	0	0	0	13
NW	0	0	0	1	2	1	0	0	0	0	0	0	4
NNW	0	0	0	0	2	0	8	3	0	0	0	0	13
TOTAL	0	0	4	17	41	105	124	3	0	0	0	0	294

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 294
TOTAL HOURS FOR THE PERIOD: 294

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	4	7	13	0	0	0	0	0	24
NNE	0	1	1	3	0	5	5	0	0	0	0	0	15
NE	0	0	1	3	0	5	14	0	0	0	0	0	23
ENE	0	0	2	1	2	4	3	0	0	0	0	0	12
E	0	1	0	0	6	3	1	0	0	0	0	0	11
ESE	0	0	0	3	1	5	3	0	0	0	0	0	12
SE	0	0	0	0	1	8	2	0	0	0	0	0	11
SSE	0	0	0	1	0	9	2	0	0	0	0	0	12
S	0	0	0	1	0	3	0	0	0	0	0	0	4
SSW	0	0	0	0	2	9	0	0	0	0	0	0	11
SW	0	1	1	1	5	15	2	0	0	0	0	0	25
WSW	0	0	1	2	4	18	1	0	0	0	0	0	26
W	0	0	0	5	3	7	5	0	0	0	0	0	20
WNW	0	0	0	2	3	6	8	0	0	0	0	0	19
NW	0	1	2	0	0	15	3	0	0	0	0	0	21
NNW	0	0	0	1	1	7	11	0	0	0	0	0	20
TOTAL	0	4	8	23	32	126	73	0	0	0	0	0	266

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 266
TOTAL HOURS FOR THE PERIOD: 266

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	8	35	17	39	46	68	38	0	0	0	0	0	251
NNE	14	25	15	48	50	37	6	0	0	0	0	0	195
NE	24	32	14	33	49	54	0	0	0	0	0	0	206
ENE	13	47	21	42	22	21	5	0	0	0	0	0	171
E	10	31	19	25	19	5	0	0	0	0	0	0	109
ESE	3	27	36	33	21	53	31	0	0	0	0	0	204
SE	7	13	21	67	65	95	6	0	0	0	0	0	274
SSE	2	5	9	22	34	63	23	0	0	0	0	0	158
S	0	6	4	6	11	31	17	0	0	0	0	0	75
SSW	3	2	1	10	12	19	5	0	0	0	0	0	52
SW	1	4	0	15	8	6	4	0	0	0	0	0	38
WSW	1	5	2	6	8	6	4	0	0	0	0	0	32
W	0	3	8	8	4	8	4	0	0	0	0	0	35
WNW	3	9	9	10	11	29	14	3	0	0	0	0	88
NW	6	28	12	17	19	25	27	6	0	0	0	0	140
NNW	12	21	21	20	22	46	27	1	0	0	0	0	170
TOTAL	107	293	209	401	401	566	211	10	0	0	0	0	2198

NUMBER OF CALMS: 1
NUMBER OF INVALID HOURS: 9
NUMBER OF VALID HOURS: 2199
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	15	7	0	0	0	0	0	22
NNE	0	0	0	1	3	10	2	0	0	0	0	0	16
NE	0	0	0	4	3	10	0	0	0	0	0	0	17
ENE	0	0	0	3	4	3	0	0	0	0	0	0	10
E	0	0	0	3	6	3	0	0	0	0	0	0	12
ESE	0	0	0	0	4	9	7	0	0	0	0	0	20
SE	0	0	0	0	5	22	1	0	0	0	0	0	28
SSE	0	0	0	1	2	8	4	0	0	0	0	0	15
S	0	0	0	2	1	3	4	0	0	0	0	0	10
SSW	0	0	0	0	0	4	1	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	2	0	0	0	0	0	0	4
W	0	0	0	0	0	1	1	0	0	0	0	0	2
WNW	0	0	0	0	0	3	1	0	0	0	0	0	4
NW	0	0	0	0	0	1	8	1	0	0	0	0	10
NNW	0	0	0	0	1	4	9	1	0	0	0	0	15
TOTAL	0	0	0	14	33	98	45	2	0	0	0	0	192

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 192
TOTAL HOURS FOR THE PERIOD: 192

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	1	1	9	7	0	0	0	0	0	18
NNE	0	0	0	3	4	8	0	0	0	0	0	0	15
NE	0	1	0	4	9	4	0	0	0	0	0	0	18
ENE	0	0	1	7	2	1	0	0	0	0	0	0	11
E	0	0	0	1	4	1	0	0	0	0	0	0	6
ESE	0	0	0	4	1	4	4	0	0	0	0	0	13
SE	0	0	0	1	5	12	1	0	0	0	0	0	19
SSE	0	0	0	0	0	9	1	0	0	0	0	0	10
S	0	0	0	1	0	4	1	0	0	0	0	0	6
SSW	0	0	0	3	1	1	0	0	0	0	0	0	5
SW	0	0	0	1	2	1	0	0	0	0	0	0	4
WSW	0	0	0	2	1	4	2	0	0	0	0	0	9
W	0	0	0	0	0	4	0	0	0	0	0	0	4
WNW	0	0	0	1	1	4	6	0	0	0	0	0	12
NW	0	1	1	3	0	0	5	0	0	0	0	0	10
NNW	0	0	0	1	1	2	2	0	0	0	0	0	6
TOTAL	0	2	2	33	32	68	29	0	0	0	0	0	166

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 166
 TOTAL HOURS FOR THE PERIOD: 166

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	4	5	2	0	0	0	0	0	11
NNE	0	0	0	1	4	4	1	0	0	0	0	0	10
NE	0	0	1	3	2	8	0	0	0	0	0	0	14
ENE	0	0	0	1	2	2	0	0	0	0	0	0	5
E	0	0	0	1	1	0	0	0	0	0	0	0	2
ESE	0	0	0	3	0	1	2	0	0	0	0	0	6
SE	0	0	0	0	3	6	0	0	0	0	0	0	9
SSE	0	0	0	0	2	3	2	0	0	0	0	0	7
S	0	0	0	0	0	2	4	0	0	0	0	0	6
SSW	0	0	0	0	1	0	0	0	0	0	0	0	1
SW	0	0	0	0	1	0	0	0	0	0	0	0	1
WSW	0	0	0	1	2	0	0	0	0	0	0	0	3
W	0	0	0	0	1	1	1	0	0	0	0	0	3
WNW	0	0	0	1	1	3	0	0	0	0	0	0	5
NW	0	0	0	0	2	1	1	1	0	0	0	0	5
NNW	0	0	1	0	2	2	0	0	0	0	0	0	5
TOTAL	0	0	2	11	28	38	13	1	0	0	0	0	93

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 93
 TOTAL HOURS FOR THE PERIOD: 93

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS D

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	1	14	18	32	22	0	0	0	0	0	87
NNE	0	0	2	15	22	14	3	0	0	0	0	0	56
NE	0	0	1	9	25	24	0	0	0	0	0	0	59
ENE	0	0	0	10	7	7	4	0	0	0	0	0	28
E	0	2	3	12	4	1	0	0	0	0	0	0	22
ESE	0	0	4	13	14	39	18	0	0	0	0	0	88
SE	0	0	3	16	28	38	3	0	0	0	0	0	88
SSE	0	0	2	1	4	21	12	0	0	0	0	0	40
S	0	2	0	1	2	10	7	0	0	0	0	0	22
SSW	0	0	0	3	6	7	4	0	0	0	0	0	20
SW	0	0	0	9	1	3	4	0	0	0	0	0	17
WSW	0	0	0	1	2	0	2	0	0	0	0	0	5
W	0	1	1	4	3	1	2	0	0	0	0	0	12
WNW	0	0	3	5	5	17	6	3	0	0	0	0	39
NW	0	0	0	4	12	18	10	4	0	0	0	0	48
NNW	0	0	1	3	10	33	14	0	0	0	0	0	61
TOTAL	0	5	21	120	163	265	111	7	0	0	0	0	692

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 4
 NUMBER OF VALID HOURS: 692
 TOTAL HOURS FOR THE PERIOD: 696

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	4	14	20	7	0	0	0	0	0	0	45
NNE	0	1	4	22	17	1	0	0	0	0	0	0	45
NE	0	0	3	9	9	8	0	0	0	0	0	0	29
ENE	0	1	6	12	6	8	1	0	0	0	0	0	34
E	0	3	5	7	4	0	0	0	0	0	0	0	19
ESE	0	5	13	10	2	0	0	0	0	0	0	0	30
SE	2	2	5	29	22	17	1	0	0	0	0	0	78
SSE	1	1	4	8	22	22	4	0	0	0	0	0	62
S	0	2	1	1	7	11	1	0	0	0	0	0	23
SSW	0	0	0	2	4	7	0	0	0	0	0	0	13
SW	1	0	0	3	2	2	0	0	0	0	0	0	8
WSW	0	2	1	2	1	0	0	0	0	0	0	0	6
W	0	1	3	4	0	1	0	0	0	0	0	0	9
WNW	1	1	2	2	4	1	1	0	0	0	0	0	12
NW	0	1	3	4	5	5	3	0	0	0	0	0	21
NNW	0	1	5	7	6	4	2	0	0	0	0	0	25
TOTAL	5	21	59	136	131	94	13	0	0	0	0	0	459

NUMBER OF CALMS: 1
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 460
 TOTAL HOURS FOR THE PERIOD: 460

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	3	5	8	3	0	0	0	0	0	0	0	19
NNE	0	2	5	6	0	0	0	0	0	0	0	0	13
NE	0	1	4	3	0	0	0	0	0	0	0	0	8
ENE	1	5	5	8	1	0	0	0	0	0	0	0	20
E	2	10	7	1	0	0	0	0	0	0	0	0	20
ESE	1	15	15	2	0	0	0	0	0	0	0	0	33
SE	3	9	5	17	2	0	0	0	0	0	0	0	36
SSE	1	2	1	11	4	0	0	0	0	0	0	0	19
S	0	0	1	1	1	1	0	0	0	0	0	0	4
SSW	0	1	0	2	0	0	0	0	0	0	0	0	3
SW	0	2	0	2	0	0	0	0	0	0	0	0	4
WSW	0	1	1	0	0	0	0	0	0	0	0	0	2
W	0	1	2	0	0	0	0	0	0	0	0	0	3
WNW	0	2	3	1	0	0	0	0	0	0	0	0	6
NW	1	1	3	4	0	0	0	0	0	0	0	0	9
NNW	5	1	2	5	2	0	0	0	0	0	0	0	15
TOTAL	14	56	59	71	13	1	0	0	0	0	0	0	214

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 214
 TOTAL HOURS FOR THE PERIOD: 214

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

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

PRIMARY SENSORS - 30 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	8	32	7	2	0	0	0	0	0	0	0	0	49
NNE	14	22	4	0	0	0	0	0	0	0	0	0	40
NE	24	30	5	1	1	0	0	0	0	0	0	0	61
ENE	12	41	9	1	0	0	0	0	0	0	0	0	63
E	8	16	4	0	0	0	0	0	0	0	0	0	28
ESE	2	7	4	1	0	0	0	0	0	0	0	0	14
SE	2	2	8	4	0	0	0	0	0	0	0	0	16
SSE	0	2	2	1	0	0	0	0	0	0	0	0	5
S	0	2	2	0	0	0	0	0	0	0	0	0	4
SSW	3	1	1	0	0	0	0	0	0	0	0	0	5
SW	0	2	0	0	0	0	0	0	0	0	0	0	2
WSW	1	2	0	0	0	0	0	0	0	0	0	0	3
W	0	0	2	0	0	0	0	0	0	0	0	0	2
WNW	2	6	1	0	0	1	0	0	0	0	0	0	10
NW	5	25	5	2	0	0	0	0	0	0	0	0	37
NNW	7	19	12	4	0	1	0	0	0	0	0	0	43
TOTAL	88	209	66	16	1	2	0	0	0	0	0	0	382

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 382
 TOTAL HOURS FOR THE PERIOD: 382

RIVER BEND STATION
JOINT FREQUENCY TABLE
ALL STABILITY CLASSES

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	1	6	5	40	102	18	0	0	0	0	172
NNE	1	0	2	8	15	62	105	6	0	0	0	0	199
NE	0	0	0	10	11	59	133	7	0	0	0	0	220
ENE	0	0	0	6	26	60	63	38	0	0	0	0	193
E	0	0	4	6	16	27	33	3	0	0	0	0	89
ESE	0	0	0	6	14	60	173	48	1	0	0	0	302
SE	0	2	0	2	12	39	203	54	1	0	0	0	313
SSE	0	1	2	4	7	43	50	12	0	0	0	0	119
S	0	0	0	6	12	30	31	8	0	0	0	0	87
SSW	0	0	2	2	8	25	18	3	0	0	0	0	58
SW	0	0	1	2	13	12	11	3	1	0	0	0	43
WSW	0	0	1	2	9	27	5	2	4	0	0	0	50
W	0	0	0	4	6	22	21	4	2	0	0	0	59
WNW	0	0	1	2	5	24	28	7	3	1	0	0	71
NW	0	0	2	3	3	25	47	23	5	0	0	0	108
NNW	0	0	0	3	5	27	62	16	1	0	0	0	114
TOTAL	1	3	16	72	167	582	1085	252	18	1	0	0	2197

NUMBER OF CALMS: 2
NUMBER OF INVALID HOURS: 9
NUMBER OF VALID HOURS: 2199
TOTAL HOURS FOR THE PERIOD: 2208

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS A

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	3	7	1	0	0	0	0	11
NNE	0	0	0	0	1	3	18	1	0	0	0	0	23
NE	0	0	0	1	2	3	14	1	0	0	0	0	21
ENE	0	0	0	0	3	5	7	0	0	0	0	0	15
E	0	0	0	2	1	1	10	0	0	0	0	0	14
ESE	0	0	0	0	0	3	17	3	0	0	0	0	23
SE	0	0	0	0	1	5	12	9	0	0	0	0	27
SSE	0	0	0	0	0	3	2	4	0	0	0	0	9
S	0	0	0	0	2	1	3	1	0	0	0	0	7
SSW	0	0	0	0	0	4	3	0	0	0	0	0	7
SW	0	0	0	0	1	1	0	0	0	0	0	0	2
WSW	0	0	0	0	0	2	2	0	0	0	0	0	4
W	0	0	0	0	0	0	2	0	0	0	0	0	2
WNW	0	0	0	0	0	0	4	0	0	0	0	0	4
NW	0	0	0	0	0	0	6	5	1	0	0	0	12
NNW	0	0	0	0	0	0	4	6	1	0	0	0	11
TOTAL	0	0	0	3	11	34	111	31	2	0	0	0	192

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 192
TOTAL HOURS FOR THE PERIOD: 192

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS B

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	0	2	8	3	0	0	0	0	13
NNE	0	0	0	0	2	4	7	0	0	0	0	0	13
NE	0	0	0	3	2	5	7	0	0	0	0	0	17
ENE	0	0	0	1	4	5	6	3	0	0	0	0	19
E	0	0	0	0	0	2	3	0	0	0	0	0	5
ESE	0	0	0	0	3	2	10	9	0	0	0	0	24
SE	0	0	0	0	0	3	10	2	1	0	0	0	16
SSE	0	0	0	0	0	1	0	0	0	0	0	0	1
S	0	0	0	1	1	2	3	2	0	0	0	0	9
SSW	0	0	0	0	3	0	0	0	0	0	0	0	3
SW	0	0	0	0	1	2	2	0	0	0	0	0	5
WSW	0	0	0	1	0	6	0	0	2	0	0	0	9
W	0	0	0	0	0	2	4	3	0	0	0	0	9
WNW	0	0	0	0	1	0	2	3	0	0	0	0	6
NW	0	0	1	0	0	2	2	3	0	0	0	0	8
NNW	0	0	0	1	1	2	5	0	0	0	0	0	9
TOTAL	0	0	1	7	18	40	69	28	3	0	0	0	166

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 166
 TOTAL HOURS FOR THE PERIOD: 166

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS C

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	0	1	2	6	1	0	0	0	0	10
NNE	0	0	0	1	2	2	3	1	0	0	0	0	9
NE	0	0	0	2	0	6	5	2	0	0	0	0	15
ENE	0	0	0	1	0	2	2	5	0	0	0	0	10
E	0	0	0	0	1	1	0	0	0	0	0	0	2
ESE	0	0	0	0	2	2	4	1	0	0	0	0	9
SE	0	0	0	0	1	0	6	2	0	0	0	0	9
SSE	0	0	0	0	0	0	2	3	0	0	0	0	5
S	0	0	0	0	0	1	3	1	0	0	0	0	5
SSW	0	0	0	0	0	1	0	0	0	0	0	0	1
SW	0	0	0	0	1	0	0	0	0	0	0	0	1
WSW	0	0	0	0	1	1	0	0	0	0	0	0	2
W	0	0	0	0	1	1	1	0	1	0	0	0	4
WNW	0	0	0	0	0	2	3	0	0	0	0	0	5
NW	0	0	0	0	1	1	1	0	1	0	0	0	4
NNW	0	0	0	0	0	1	1	0	0	0	0	0	2
TOTAL	0	0	0	4	11	23	37	16	2	0	0	0	93

NUMBER OF CALMS: 0
 NUMBER OF INVALID HOURS: 0
 NUMBER OF VALID HOURS: 93
 TOTAL HOURS FOR THE PERIOD: 93

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS D

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	2	2	16	37	13	0	0	0	0	70
NNE	0	0	0	1	7	17	41	4	0	0	0	0	70
NE	0	0	0	0	2	16	39	4	0	0	0	0	61
ENE	0	0	0	1	5	12	19	15	0	0	0	0	52
E	0	0	1	3	3	7	5	2	0	0	0	0	21
ESE	0	0	0	1	5	7	32	23	1	0	0	0	69
SE	0	0	0	1	5	8	63	32	0	0	0	0	109
SSE	0	0	1	0	2	6	17	4	0	0	0	0	30
S	0	0	0	1	3	2	10	4	0	0	0	0	20
SSW	0	0	0	2	0	6	7	3	0	0	0	0	18
SW	0	0	0	0	5	1	4	3	1	0	0	0	14
WSW	0	0	1	0	1	6	2	2	2	0	0	0	14
W	0	0	0	1	3	4	6	1	1	0	0	0	16
WNW	0	0	1	1	0	5	16	3	3	1	0	0	30
NW	0	0	0	1	1	9	25	11	3	0	0	0	50
NNW	0	0	0	1	1	8	29	9	0	0	0	0	48
TOTAL	0	0	4	16	45	130	352	133	11	1	0	0	692

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 4
NUMBER OF VALID HOURS: 692
TOTAL HOURS FOR THE PERIOD: 696

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS E

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	1	2	9	26	0	0	0	0	0	38
NNE	1	0	1	1	2	19	23	0	0	0	0	0	47
NE	0	0	0	1	1	10	32	0	0	0	0	0	44
ENE	0	0	0	1	3	3	12	15	0	0	0	0	34
E	0	0	1	0	1	2	10	1	0	0	0	0	15
ESE	0	0	0	1	0	10	51	10	0	0	0	0	72
SE	0	1	0	1	2	9	52	9	0	0	0	0	74
SSE	0	0	0	2	3	7	21	1	0	0	0	0	34
S	0	0	0	1	2	9	9	0	0	0	0	0	21
SSW	0	0	0	0	1	5	6	0	0	0	0	0	12
SW	0	0	0	0	2	1	5	0	0	0	0	0	8
WSW	0	0	0	1	2	2	0	0	0	0	0	0	5
W	0	0	0	2	1	2	5	0	0	0	0	0	10
WNW	0	0	0	0	0	4	1	1	0	0	0	0	6
NW	0	0	0	0	0	3	11	4	0	0	0	0	18
NNW	0	0	0	0	1	6	13	0	0	0	0	0	20
TOTAL	1	1	2	12	23	101	277	41	0	0	0	0	458

NUMBER OF CALMS: 2
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 460
TOTAL HOURS FOR THE PERIOD: 460

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS F

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	1	1	0	3	9	0	0	0	0	0	14
NNE	0	0	0	0	0	7	8	0	0	0	0	0	15
NE	0	0	0	0	0	5	10	0	0	0	0	0	15
ENE	0	0	0	1	3	10	7	0	0	0	0	0	21
E	0	0	0	0	3	5	4	0	0	0	0	0	12
ESE	0	0	0	0	0	9	35	2	0	0	0	0	46
SE	0	1	0	0	2	6	36	0	0	0	0	0	45
SSE	0	1	0	0	0	9	6	0	0	0	0	0	16
S	0	0	0	1	1	2	0	0	0	0	0	0	4
SSW	0	0	0	0	0	3	0	0	0	0	0	0	3
SW	0	0	0	0	1	1	0	0	0	0	0	0	2
WSW	0	0	0	0	1	2	0	0	0	0	0	0	3
W	0	0	0	1	0	2	1	0	0	0	0	0	4
WNW	0	0	0	0	0	1	2	0	0	0	0	0	3
NW	0	0	0	1	0	3	1	0	0	0	0	0	5
NNW	0	0	0	0	2	1	3	0	0	0	0	0	6
TOTAL	0	2	1	5	13	69	122	2	0	0	0	0	214

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 214
TOTAL HOURS FOR THE PERIOD: 214

RIVER BEND STATION
JOINT FREQUENCY TABLE
STABILITY CLASS G

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

PRIMARY SENSORS - 150 FOOT

WIND SPEED (METERS/SECOND)

WIND DIR	.22-.50	.51-.75	.76-1.0	1.1-1.5	1.6-2.0	2.1-3.0	3.1-5.0	5.1-7.0	7.1-10.0	10.1-13.0	13.1-18.0	>18	TOT.
N	0	0	0	2	0	5	9	0	0	0	0	0	16
NNE	0	0	1	5	1	10	5	0	0	0	0	0	22
NE	0	0	0	3	4	14	26	0	0	0	0	0	47
ENE	0	0	0	1	8	23	10	0	0	0	0	0	42
E	0	0	2	1	7	9	1	0	0	0	0	0	20
ESE	0	0	0	4	4	27	24	0	0	0	0	0	59
SE	0	0	0	0	1	8	24	0	0	0	0	0	33
SSE	0	0	1	2	2	17	2	0	0	0	0	0	24
S	0	0	0	2	3	13	3	0	0	0	0	0	21
SSW	0	0	2	0	4	6	2	0	0	0	0	0	14
SW	0	0	1	2	2	6	0	0	0	0	0	0	11
WSW	0	0	0	0	4	8	1	0	0	0	0	0	13
W	0	0	0	0	1	11	2	0	0	0	0	0	14
WNW	0	0	0	1	4	12	0	0	0	0	0	0	17
NW	0	0	1	1	1	7	1	0	0	0	0	0	11
NNW	0	0	0	1	0	9	7	1	0	0	0	0	18
TOTAL	0	0	8	25	46	185	117	1	0	0	0	0	382

NUMBER OF CALMS: 0
NUMBER OF INVALID HOURS: 0
NUMBER OF VALID HOURS: 382
TOTAL HOURS FOR THE PERIOD: 382

TABLE 14
Effluent and Waste Disposal Annual Report 2000 Year
ATMOSPHERIC DISPERSION FACTORS
(X/Q FACTORS) (D/Q FACTORS)

Table 14
Effluent and Waste Disposal Annual Report 2000 Year
ATMOSPHERIC DISPERSION AND DEPOSITION RATES FOR
THE MAXIMUM INDIVIDUAL DOSE CALCULATIONS

Analysis	Location (meters)	Ground Level Releases	Mixed Mode Releases
Gamma air dose (3) and Beta Air Dose	994 m WNW (Containment)	CHI/Q - 421.0	CHI/Q - 33.1
Maximum Receptor	994 m WNW	CHI/Q - 421.0	CHI/Q - 33.1
Resident		D/Q - 50.3	D/Q - 18.1
Garden			
Meat animal			
Immersion			
Milk animal	7,000 m WNW	CHI/Q - 3.58 D/Q - 0.38	CHI/Q - .870 D/Q - .223
Other on-site Receptors (6)	115 m ENE	CHI/Q - 5977.0 D/Q - 529.7	CHI/Q - 407.5 D/Q - 46.9
	275 m N	CHI/Q - 1644.0 D/Q - 345.6	CHI/Q - 169.1 D/Q - 68.4
	2500 SW	CHI/Q - 34.45 D/Q - 3.35	CHI/Q - 4.65 D/Q - 1.40

Notes:(1) All CHI/Q = 10^{-7} sec/m^3 (2) All D/Q = 10^{-9} m^{-2}

(3) Maximum offsite location (property boundary) with highest CHI/Q (unoccupied).

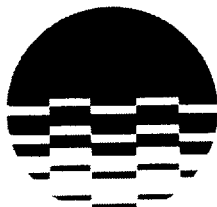
(4) Maximum hypothetical occupied offsite location with highest CHI/Q and D/Q.

(5) No milk animal within 5 miles radius, hypothetical location in worst sector.

(6) Other on-site receptors.

ATTACHMENT 1

Radwaste Processing Control Program (ADM-0095)



ENTERGY

**RIVER BEND STATION
STATION OPERATING MANUAL
*ADMINISTRATIVE PROCEDURE**

****RADWASTE PROCESSING CONTROL PROGRAM***

PROCEDURE NUMBER: *ADM-0095
REVISION NUMBER: *1
Effective Date: * OCT 12 2000

NOTE : SIGNATURES ARE ON FILE.
*INDEXING INFORMATION

RECEIVED
OCT 12 2000
DOCUMENT CONTROL

TABLE OF CHANGES

LETTER DESIGNATION TRACKING NUMBER	DETAILED DESCRIPTION OF CHANGES

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5 RESPONSIBILITY AND AUTHORITY	4
6 INSTRUCTIONS.....	4
7 ATTACHMENTS.....	5

1 **PURPOSE**

1.1 The Process Control Program establishes the necessary guidance to ensure that solid radioactive waste management activities result in solid waste products meeting the criteria contained in the Code of Federal Regulations, State Regulations and Radioactive Waste Burial Site License Criteria for solid radioactive waste shipping and disposal.

2 **SCOPE**

2.1 The scope of the Process Control Program is to assure that radioactive waste will be handled, shipped, and disposed of in a safe manner in accordance with approved site or vendor procedures, whichever is applicable.

3 **REFERENCES**

- 3.1 Title 49, Code of Federal Regulations
- 3.2 RBS Technical Requirements Manual Section 5.8
- 3.3 Branch Technical Position on Final Waste Classification and Waste Form
- 3.4 RWS-0336, Set-up and Operation of the RDS-1000 Dewatering Unit
- 3.5 RWS-0310, Operation of the Nuclear Packaging Model WC-1800 Waste Compactor
- 3.6 Entergy Quality Assurance Program Manual

4 **DEFINITIONS**

- 4.1 Dewatering - The removal of water or liquid from a waste form, usually by gravity or pumping.
- 4.2 Compaction - The process of volume reducing solid waste by applying external pressure.
- 4.3 Solid Dry Waste - Radioactive waste which exist primarily in a non-liquid phase and includes such items as dry materials, metals, resins, filter media and sludges.

- 4.4 Solid Liquid Waste - Radioactive waste that exist primarily in a liquid form and is contained in other than installed plant systems, to include such items as oil, EHC fluid, and other concentrated liquids.

5 **RESPONSIBILITY AND AUTHORITY**

- 5.1 Superintendent - Radiation Control - responsible for the management and implementation of the Process Control Program
- 5.2 Quality Assurance - responsible for conducting periodic audits in accordance with Quality Assurance Program.

6 **INSTRUCTIONS**

6.1 Solid Dry Waste Management

6.1.1. Radioactive waste processed at RBS will either be dewatered in accordance with RWS-0336, Set-up and Operation of the RDS-1000 Dewatering Unit, or compacted in accordance with RWS-0310, Operation of the Nuclear Packing Model WC-1800 Waste Compactor.

6.1.2. Solid dry waste will:

- be packaged in accordance with Title 49 Code of Federal Regulations
- meet the requirements of the Branch Technical Position of Final Waste Classification and Waste Form and applicable Vendor Waste Acceptance and Disposal Site Criteria

6.2 Solid Liquid Waste Management

6.2.1. Solid Liquid Waste will be:

- processed at an offsite Processing facility
- packaged in accordance with Title 49 Code of Federal Regulations

6.3 Quality Assurance Requirement

- Certain elements of the Quality Assurance Program are applied to the Process Control Program.

6.4 Administrative Controls

- 6.4.1. Changes in the Process Control Program and supporting documentation are included in the next annual Radiological Effluent Release Report to the NRC.
- 6.4.2. Changes in the Process Control Program will meet the technical review and control required by Section 5.8 of the Technical Requirements Manual.

7 **ATTACHMENTS**

- 7.1 None