



Carolina Power & Light Company

August 27, 1976

FILE: NG-3513 (R)

SERIAL: NG-76-1153

Mr. Norman C. Moseley, Director
U. S. Nuclear Regulatory Commission
Region II, Suite 818
230 Peachtree Street, N.W.
Atlanta, Georgia 30303



Dear Mr. Moseley:

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT 2
DOCKET 50-261
LICENSE NO. DPR-23

Attached you will find a copy of the Effluent Report for January 1 to June 30, 1976, as required by Regulatory Guide 1.21. The Environmental Monitoring Report for the same period is also attached.

Yours very truly,

H. R. Banks

Manager

Nuclear Generation

DSC/CSB/ku

Attachment

cc: Messrs. W. G. McDonald
E. Volgenau

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

Supplemental Information

Facility: H. B. Robinson SEG Plant

License: DPR-23

1. Regulatory Limits

- a. Fission and Activation Gases: 15,000 uCi/sec Based on Xe¹³³
- b. Iodines: 7.15E-03 uCi/sec Based on I-131
- c. Particulates, half-lives > 8 days: 7.15E-03 uCi/sec
- d. Liquid Effluents: Tritium not to exceed annual daily average of 10.5 curies. All others not to exceed 10 CFR 20, Appendix B, Table 2, Column 2, except unidentified not to exceed annual daily limit average of 26 mCi/day.

2. Maximum Permissible Concentrations

- a. Fission and Activation Gases: 3.00E-07 uCi/cc Based on Kr-85 & Xe-133
- b. Iodines: 1.43E-13 uCi/cc I-131
4.00E-10 uCi/cc I-133
1.00E-09 uCi/cc I-135
- c. Particulates, Half-Lives > 8 days: 1.43E-13 uCi/cc
- d. Liquid Effluents: 1E-08 uCi/cc unidentified
3E-03 uCi/cc Tritium

3. Average Energy of Fission & Activation Gases Released = .289 Mev

4. Measurements and Approximations of Total Radioactivity.

a. Fission and Activation Gases

Measured by: Continuous Monitors

Radionuclides Determined By: Periodic Grab Samples, Gamma Scan, Gross Beta Count (tricarb)

b. Iodines

Measured By: Continuous Sampler

Radionuclides Determined By: Gamma Scan

c. Particulates

Measured By: Continuous Sampler

Radionuclides Determined By: Gamma Scan, Gross Beta Count

d. Liquid Effluents

Measured By: Composites

Radionuclides Determined By: Gamma Scan, Gross Beta Count, Tritium
Count

5a. LIQUID RELEASES FIRST QUARTER, 1976

<u>TOTAL NO. OF RELEASES/WK.</u>	<u>TOTAL MINUTES OF RELEASES/WK.</u>	<u>MAX. MIN. ANY RELEASE</u>	<u>AVE. MIN. PER RELEASE</u>	<u>MIN. MINUTES ANY RELEASE</u>
1.10E01	6.20E02	1.00E02	5.60E01	2.20E01
2.10E01	2.47E03	4.00E02	1.17E02	2.20E01
2.50E01	2.73E03	4.54E02	1.09E02	2.50E01
1.50E01	1.35E03	3.17E02	8.99E01	4.00E01
2.10E01	1.25E03	3.70E02	5.90E01	2.10E01
5.00E00	2.15E02	5.70E01	4.30E01	2.80E01
2.00E00	5.94E02	4.05E02	2.97E02	1.89E02
1.70E01	7.77E02	9.60E01	4.57E01	2.20E01
6.00E00	2.42E02	5.30E01	4.00E01	1.90E01
4.00E00	1.76E02	7.00E01	4.40E01	2.40E01
1.00E01	5.73E02	1.67E02	5.70E01	3.80E01
6.00E00	7.13E02	3.52E02	1.18E02	4.20E01
1.70E01	1.06E03	2.05E02	6.30E01	2.10E01
TOTAL 1.60E02	1.28E04			

Maximum Minutes Any Release - 4.54E02

Minimum Minutes Any Release - 1.90E01

Average Minutes - 8.00E01

LIQUID RELEASES SECOND QUARTER, 1976

<u>TOTAL NO. OF RELEASES/WK.</u>	<u>TOTAL MINUTES OF RELEASES/WK.</u>	<u>MAX. MIN. ANY RELEASE</u>	<u>AVE. MIN. PER RELEASE</u>	<u>MIN. MINUTES ANY RELEASE</u>
2.10E01	2.41E03	4.96E02	1.15E02	2.00E01
1.60E01	1.59E03	4.84E02	9.90E01	3.20E01
8.00E00	1.10E03	5.14E02	1.38E02	4.20E01
1.00E01	4.04E02	5.50E01	4.00E01	1.70E01
1.20E01	1.58E03	4.23E02	1.32E02	3.90E01
9.00E00	5.04E02	1.54E02	5.60E01	3.10E01
1.20E01	1.34E03	3.97E02	1.12E02	2.80E01
5.00E00	5.52E02	1.80E02	1.10E02	3.10E01
1.10E01	1.22E03	4.76E02	1.11E02	4.30E01
9.00E00	4.30E02	5.80E01	4.78E01	2.80E01
1.00E01	9.98E02	1.90E02	9.98E01	2.70E01
1.60E01	1.13E03	4.45E02	7.00E01	2.30E01
1.10E01	5.35E02	7.80E01	4.86E01	2.70E01
1.50E02	1.38E04			

Maximum Minutes Any Release - 5.14E02

Minimum Minutes Any Release - 1.70E01

Average Minutes Per Release - 9.20E01

Average Stream Flow

1st Quarter - 3.13E05 gpm

2nd Quarter - 4.00E05 gpm

GASEOUS BATCH WASTE RELEASES BY QUARTERS

<u>TOTAL NO. OF RELEASES</u>	<u>TOTAL TIME OF RELEASES (MIN)</u>	<u>MAXIMUM RELEASE MIN.</u>	<u>AVE. RELEASE MINUTES</u>	<u>MIN. RELEASE MINUTES</u>
1st Qtr. 7.00E01	1.29E04	1.44E03	1.97E02	1.00E00
2nd Qtr. 5.60E01	1.04E04	4.75E02	1.84E02	1.00E00

GASEOUS WASTE RELEASES BY MONTHS - 1976

Jan. 1.80E01	5.45E03	1.44E03	3.03E02	1.00E00
Feb. 2.30E01	3.67E03	5.23E02	1.60E02	1.00E00
Mar. 2.90E01	3.74E03	3.62E02	1.29E02	1.00E00
1st Qtr. 7.00E01	1.29E04	1.44E03	1.97E02	1.00E00
April 1.50E01	2.70E03	4.75E02	1.80E02	1.00E00
May 1.80E01	3.04E03	3.63E02	1.69E02	1.00E00
June 2.30E01	4.70E03	4.37E02	2.04E02	1.00E00
2nd Qtr. 5.60E01	1.04E04	4.75E02	1.84E02	1.00E00

Max. Gross Gas Release Rate During Any 1 Hour Period - 2.79E06 uCi

Abnormal Releases

Liquid - None

Gaseous - None

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

A. Fission and Activation Products	Unit	1st Quarter	2nd Quarter	Est. Total Error %
1. Total Release (Not including Tritium, gases, alpha)	Ci	4.32E-02	2.07E-02	5.00E00
2. Average Diluted Concentration During Period	uCi/ml	5.01E-10	1.05E-10	
3. Percent of Applicable Limit	%	3.63E-03	1.02E-03	

B. Tritium

1. Total Release	Ci	1.08E02	2.05E02	3.00E00
2. Average Diluted Concentration During Period	uCi/ml	1.25E-06	1.04E-06	
3. Percent of Applicable Limit	%	1.13E01	2.15E01	

C. Dissolved and Entrained Gases

1. Total Release	Ci	7.83E-04	6.91E-04	1.00E01
2. Average Diluted Concentration During Period	uCi/ml	9.08E-12	3.49E-12	
3. Percent of Applicable Limit	%	3.03E-04	1.16E-04	

D. Gross Alpha Radioactivity

1. Total Release	Ci	0.00E00	0.00E00	0.00E00
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E. Volume of Waste Released (Prior to Dilution)	liters	3.58E07	4.97E07	5.00E00
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F. Volume of Dilution Water Used During Period	liters	8.62E10	1.98E11	5.00E00
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Maximum Concentration of Gross Radioactivity Released to the Unrestricted Area

(Averaged over the period of release)

uCi/ml	4.29E-08	1.62E-08	0.00E00
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LIQUID EFFLUENTS

<u>NUCLIDES RELEASED</u>	<u>UNIT</u>	<u>CONTINUOUS MODE</u>		<u>BATCH MODE</u>	
		<u>1st QUARTER</u>	<u>2nd QUARTER</u>	<u>1st QUARTER</u>	<u>2nd QUARTER</u>
Strontium-89	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Strontium-90	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Cesium-134	Ci	8.94E-04	0.00E00	3.76E-03	1.57E-03
Cesium-137	Ci	2.10E-03	9.24E-04	5.41E-03	3.17E-03
Iodine-131	Ci	4.61E-04	0.00E00	9.17E-05	6.08E-05
Cobalt-58	Ci	2.00E-03	3.11E-04	7.10E-03	1.97E-03
Cobalt-60	Ci	1.83E-03	1.73E-03	1.39E-02	8.92E-03
Iron-59	Ci	0.00E00	0.00E00	7.74E-05	0.00E00
Zinc-65	Ci	1.93E-04	0.00E00	1.42E-04	0.00E00
Manganese-54	Ci	8.09E-05	0.00E00	1.21E-03	6.01E-04
Chromium-51	Ci	1.72E-03	2.51E-04	6.98E-04	0.00E00
Zirconium- Niobium-95	Ci	0.00E00	1.28E-04	9.10E-05	0.00E00
Molybdenum-99	Ci	0.00E00	0.00E00	3.30E-04	3.00E-04
Technetium-99m	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Barium-Lanthanum-140	Ci	0.00E00	0.00E00	6.38E-06	2.94E-04
Cerium-141	Ci	1.38E-04	0.00E00	4.70E-05	1.06E-05
Ag-110m	Ci	3.05E-04	0.00E00	8.80E-05	8.16E-05
Co-57	Ci	1.29E-05	0.00E00	8.63E-06	7.77E-06
Sb-124	Ci	0.00E00	0.00E00	3.22E-04	9.79E-05
Sb-125	Ci	0.00E00	0.00E00	2.15E-04	2.74E-04
CD-109	Ci	0.00E00	9.14E-04	0.00E00	0.00E00
CE-139	Ci	1.58E-05	0.00E00	0.00E00	0.00E00
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Total for Period (above)	Ci	9.75E-03	4.26E-03	3.35E-02	1.74E-02
Xe-133	Ci	0.00E00	0.00E00	1.76E-04	3.62E-04
Xe-135	Ci	0.00E00	0.00E00	6.10E-04	3.30E-04

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

A. Fission and Activation Gases	Unit	1st Quarter	2nd Quarter	Est. Total Error %
1. Total Release	Ci	1.18E02	1.56E02	1.00E01
2. Average Release Rate for Period	uCi/sec	1.50E01	1.98E01	
3. Percent of Technical Specification Limit	%	1.00E-01	1.32E-01	

B. Iodines

1. Total Iodine-131	Ci	8.12E-04	1.74E-04	8.00E00
2. Average Release Rate for Period	uCi/sec	1.03E-04	2.21E-05	
3. Percent of Technical Specification Limit	%	1.44E00	3.10E-01	

C. Particulates

1. Particulates with Half-Lives > 8 Days	Ci	3.04E-05	1.98E-05	1.00E01
2. Average Release Rate for Period	uCi/sec	3.87E-06	2.52E-06	
3. Percent of Technical Specification Limit	%	5.41E-02	3.52E-02	
4. Gross Alpha Radioactivity	Ci	0.00E00	0.00E00	

D. Tritium

1. Total Release	Ci	7.05E01	3.72E01	5.00E00
2. Average Release Rate for Period	uCi/sec	8.97E00	4.73E00	
3. Percent of Technical Specification Limit	%	8.97E-02	4.73E-02	

GASEOUS EFFLUENTS - ELEVATED RELEASES

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
A. Fission and Activation Gases:					
Krypton-85	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Krypton-85m	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Krypton-87	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Krypton-88	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Xenon-133	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Xenon-135	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Xenon-135m	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Xenon-138	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Others (Specify)	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Unidentified	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Total for Period	Ci	0.00E00	0.00E00	0.00E00	0.00E00
B. Iodines:					
Iodine-131	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Iodine-133	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Iodine-135	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Total for Period	Ci	0.00E00	0.00E00	0.00E00	0.00E00
C. Particulates:					
Strontium-89	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Strontium-90	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Cesium-134	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Cesium-137	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Barium-					
Lanthanum-140	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Others (Specify)	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Unidentified	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Total for Period	Ci	0.00E00	0.00E00	0.00E00	0.00E00

GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
A. Fission and Activation Gases:					
Krypton-85	Ci	6.48E00	0.00E00	1.42E00	0.00E00
Krypton-85m	Ci	7.58E-01	3.78E-01	1.05E-02	9.80E-03
Krypton-87	Ci	7.93E-01	3.33E00	1.51E-02	8.54E-02
Krypton-88	Ci	4.89E-01	2.31E00	9.38E-03	2.63E-02
Xenon-133	Ci	8.84E01	1.12E02	1.42E01	3.73E00
Xenon-135	Ci	6.28E00	0.00E00	8.23E-01	2.45E-01
Xenon-135m	Ci	9.22E-01	2.51E01	1.83E-02	1.95E-01
Xenon-138	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Others (specify)	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Xe-133m	Ci	3.59E-01	5.86E00	7.39E-03	0.00E00
Ar-41	Ci	7.39E-01	5.44E00	2.19E-01	7.47E-02
Total for Period	Ci	1.05E02	1.54E02	1.67E01	4.37E00
B. Iodines:					
Iodine-131	Ci	8.12E-04	1.71E-04	1.09E-05	4.51E-06
Iodine-133	Ci	1.91E-03	3.02E-04	1.99E-05	6.76E-06
Iodine-135	Ci	4.33E-04	5.97E-05	1.08E-05	7.81E-07
Total for Period	Ci	3.16E-03	5.33E-04	4.16E-05	1.21E-05
C. Particulates:					
Strontium-89	Ci	0.00E00	1.25E-07	0.00E00	2.17E-07
Strontium-90	Ci	0.00E00	5.33E-09	0.00E00	9.28E-09
Cesium-134	Ci	0.00E00	0.00E00	0.00E00	0.00E00
Cesium-137	Ci	2.70E-07	1.87E-06	3.77E-07	2.65E-06
Barium-Lanthanum-140	Ci	0.00E00	4.92E-07	0.00E00	7.16E-07
Co-58	Ci	6.58E-07	1.10E-06	1.53E-07	3.09E-06
Co-60	Ci	2.62E-05	6.99E-06	4.57E-05	1.53E-05
Cd-109	Ci	2.64E-06	3.38E-06	2.55E-07	4.45E-07
Co-57	Ci	4.25E-07	3.67E-07	2.93E-08	5.32E-07
Zr-97	Ci	0.00E00	1.31E-07	0.00E00	6.23E-08
Zr-95	Ci	0.00E00	2.99E-07	0.00E00	0.00E00
Nb-95	Ci	0.00E00	1.21E-07	0.00E00	0.00E00
Ce-139	Ci	0.00E00	1.44E-07	0.00E00	0.00E00
Cd-144	Ci	0.00E00	3.67E-07	0.00E00	0.00E00
Sb-125	Ci	0.00E00	2.33E-07	0.00E00	0.00E00

CASEOUS EFFLUENTS - GROUND LEVEL RELEASES (Continued)

<u>NUCLIDES RELEASED</u>	<u>UNIT</u>	<u>CONTINUOUS MODE</u>		<u>BATCH MODE</u>	
		<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>
Zn-65	Ci	0.00E00	2.76E-07	0.00E00	0.00E00
Ce-141	Ci	2.30-07	2.46E-07	2.76E-07	6.74E-05
Mn-54	Ci	0.00E00	2.14E-07	2.07E-07	4.61E-08
Cr-51	Ci	0.00E00	3.45E-06	8.45E-08	1.74E-09
Nb-97	Ci	0.00E00	0.00E00	0.00E00	1.65E-10
Na-22	Ci	0.00E00	0.00E00	0.00E00	2.15E-04

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

1. Type of Waste	Unit	6-Month Period	Est. Total Error %
Spent Resins, Filter Sludges, Evaporator Bottoms, Etc.	M ³ Ci	7.10E01 2.45E01	1.00E01
Dry Compressible Waste, Contaminated Equip., Etc.	M ³ Ci	6.41E01 1.37E00	1.00E01
Irradiated Components, Control Rods, Etc.	M ³ Ci	0.00E00 0.00E00	0.00E00
Other (Describe)	M ³ Ci	0.00E00 0.00E00	0.00E00

2. Estimate of Major Nuclide Composition

See Supplement No. 1.

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
9.00E00	Truck (Sole Consignee)	Barnwell, S. C.

4. Irradiated Fuel Shipments (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
0	-	-

SUPPLEMENT NO. 1

SOLID WASTE AND IRRADIATED FUEL SHIPMENT TABLE

Estimate of Major Nuclide Composition (By Type of Waste)

A. Spent Resins and Evaporator Bottoms

1. Resin.

<u>Isotope</u>	<u>%</u>
Co-58	4.40E00
Cs-134	2.12E01
Cs-137	4.95E01
Mn-54	1.70E00
Co-60	2.32E01

2. Evaporator Bottoms

<u>Isotope</u>	<u>%</u>
Co-57	2.18E-01
I-131	2.27E-01
Sb-125	1.00E00
Co-58	3.83E01
Cs-134	9.50E00
Cs-137	1.42E01
Mn-54	2.94E00
Co-60	3.22E01
Sb-124	1.39E00

B. Dry Waste

Estimate of Major Nuclide Composition

<u>Isotope</u>	<u>%</u>
Co-58	1.4
Nb-97	2.0
Nb-95	2.5
Mn-54	2.2
Co-60	61.3
Cs-137	20.6
Others	10.0

SOLID WASTE SHIPMENTS

Total Shipments - 9

Shipping Dates

Total Activity - 1.84E01 Curies

1-8-76

1-9-76

1-21-76

2-10-76

3-8-76

3-10-76

4-12-76

5-13-76

6-16-76

Evaporator Bottoms

6.87E01 M³

1.70E01 Curies

Dry Waste

6.41E01 M³

1.37E00 Curies

RESIN SHIPMENTS

Total Shipment - 1

Shipping Dates

Total Activity - 7.46E00 Curies

1-27-76

2.29E00 M³

ENCLOSURE 1

JOINT FREQUENCY OF WIND DIRECTION AND SPEED
FIRST QUARTER 1976
ROBINSON STEAM ELECTRIC PLANT

The attached tables present the frequency of wind direction occurrences by wind speed class as recorded at the on-site meteorological system during the period January 1 through March 31, 1976.

The frequencies are presented as a percent of total occurrences for each stability class as well as a summary for all classes for each sensor elevation. The first eight tables are for the upper sensor elevation (200 feet); the last eight tables are for the lower (35 feet) sensor elevation.

Pertinent information available from the tables is as follows:

1. Stability

Percent occurrence Pasquill categories:

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>
11.2	3.7	3.3	19.6	33.7	14.7	14.0

2. Wind Speed

35 Feet

200 Feet

Average speed (mph)	5.5	10.4
Percent calm	1.2	0.0
Percent less than 3.5 mph	28.2	2.5

3. Wind Direction

35 Feet

200 Feet

Prevailing direction	SSW	SW
Percent occurrence	14.9	16.3

4. Data Recovery

35 Feet

200 Feet

Percent good hours	98.9	99.6
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JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 3/31/76

STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.3253E+00	0.4182E+00	0.4182E+00	0.4647E-01	0.0	0.1208E+01	0.1077E+02
NNE	0.0	0.0	0.2323E+00	0.2323E+00	0.0	0.0	0.0	0.4647E+00	0.7657E+01
NE	0.0	0.0	0.1394E+00	0.3253E+00	0.0	0.0	0.0	0.4647E+00	0.9603E+01
ENE	0.0	0.0	0.9294E-01	0.0	0.0	0.0	0.0	0.9294E-01	0.4505E+01
E	0.0	0.0	0.4647E-01	0.0	0.0	0.0	0.0	0.4647E-01	0.3780E+01
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.1859E+00	0.1394E+00	0.0	0.0	0.0	0.3253E+00	0.7889E+01
SSE	0.0	0.0	0.1394E+00	0.9294E-01	0.4647E-01	0.0	0.0	0.2788E+00	0.8370E+01
S	0.0	0.0	0.1394E+00	0.4647E+00	0.1859E+00	0.4647E-01	0.0	0.8364E+00	0.1072E+02
SSW	0.0	0.0	0.9294E-01	0.6041E+00	0.6970E+00	0.9294E-01	0.9294E-01	0.1580E+01	0.1397E+02
SW	0.0	0.0	0.9294E-01	0.1301E+01	0.7435E+00	0.0	0.9294E-01	0.2230E+01	0.1246E+02
WSW	0.0	0.0	0.1859E+00	0.5576E+00	0.9294E-01	0.4647E-01	0.0	0.8829E+00	0.9773E+01
W	0.0	0.0	0.4647E-01	0.3253E+00	0.1394E+00	0.9294E-01	0.0	0.6041E+00	0.1265E+02
WNW	0.0	0.0	0.1394E+00	0.5112E+00	0.4182E+00	0.0	0.0	0.1069E+01	0.1126E+02
NW	0.0	0.0	0.4647E-01	0.1859E+00	0.2788E+00	0.0	0.0	0.5112E+00	0.1163E+02
NNW	0.0	0.0	0.0	0.1859E+00	0.3253E+00	0.0	0.0	0.5112E+00	0.1277E+02
TOTAL	0.0	0.0	0.1905E+01	0.5344E+01	0.3346E+01	0.3253E+00	0.1859E+00	0.1111E+02	0.9854E+01
NUMBER OF CALMS - 0									
NUMBER OF BAD HOURS - 6									

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD: 12:00 AM 1/ 1/76 TO 11:00 PM 3/31/76

STABILITY CLASS B
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.9294E-01	0.4647E-01	0.4647E-01	0.4647E-01	0.0	0.0	0.2323E+00	0.6858E+01
NNE	0.0	0.0	0.9294E-01	0.0	0.1394E+00	0.0	0.0	0.2323E+00	0.1085E+02
NE	0.0	0.0	0.9294E-01	0.4647E-01	0.4647E-01	0.0	0.0	0.1859E+00	0.1032E+02
ENE	0.0	0.0	0.4647E-01	0.0	0.0	0.0	0.0	0.4647E-01	0.4780E+01
E	0.0	0.0	0.9294E-01	0.0	0.0	0.0	0.0	0.9294E-01	0.4690E+01
ESE	0.0	0.0	0.1394E+00	0.0	0.0	0.0	0.0	0.1394E+00	0.4737E+01
SE	0.0	0.4647E-01	0.1394E+00	0.4647E-01	0.0	0.0	0.0	0.2323E+00	0.5158E+01
SSE	0.0	0.0	0.4647E-01	0.9294E-01	0.0	0.0	0.0	0.1394E+00	0.8543E+01
S	0.0	0.0	0.9294E-01	0.9294E-01	0.1394E+00	0.0	0.0	0.3253E+00	0.1106E+02
SSW	0.0	0.0	0.4647E-01	0.1394E+00	0.2788E+00	0.4647E-01	0.0	0.5112E+00	0.1346E+02
SW	0.0	0.0	0.0	0.4647E+00	0.2323E+00	0.0	0.9294E-01	0.7900E+00	0.1330E+02
WSW	0.0	0.0	0.4647E-01	0.9294E-01	0.1394E+00	0.4647E-01	0.0	0.3253E+00	0.1274E+02
W	0.0	0.0	0.4647E-01	0.9294E-01	0.0	0.0	0.0	0.1394E+00	0.8400E+01
WNW	0.0	0.0	0.0	0.4647E-01	0.4647E-01	0.0	0.0	0.9294E-01	0.1296E+02
NW	0.0	0.0	0.0	0.9294E-01	0.4647E-01	0.0	0.0	0.1394E+00	0.1158E+02
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.1394E+00	0.9294E+00	0.1255E+01	0.1115E+01	0.9294E-01	0.9294E-01	0.3625E+01	0.9297E+01
NUMBER OF CALMS - 0									
NUMBER OF BAD HOURS - 0									

STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.4647E-01	0.4647E-01	0.0	0.0	0.0	0.0	0.9294E-01	0.4965E+01
NNE	0.0	0.0	0.9294E-01	0.4647E-01	0.0	0.0	0.0	0.1394E+00	0.7597E+01
NE	0.0	0.9294E-01	0.4647E-01	0.0	0.4647E-01	0.0	0.0	0.1859E+00	0.6577E+01
ENE	0.0	0.4647E-01	0.4647E-01	0.9294E-01	0.0	0.0	0.0	0.1859E+00	0.7107E+01
E	0.0	0.0	0.9294E-01	0.0	0.0	0.0	0.0	0.9294E-01	0.5965E+01
ESE	0.0	0.0	0.9294E-01	0.0	0.0	0.0	0.0	0.9294E-01	0.4430E+01
SE	0.0	0.0	0.0	0.9294E-01	0.0	0.0	0.0	0.9294E-01	0.1000E+02
SSE	0.0	0.0	0.4647E-01	0.0	0.4647E-01	0.0	0.0	0.9294E-01	0.9565E+01
S	0.0	0.0	0.1394E+00	0.0	0.1394E+00	0.4647E-01	0.0	0.3253E+00	0.1125E+02
SSW	0.0	0.0	0.0	0.1859E+00	0.4647E-01	0.9294E-01	0.0	0.3253E+00	0.1251E+02
SW	0.0	0.0	0.1394E+00	0.3253E+00	0.1394E+00	0.1394E+00	0.4647E-01	0.7900E+00	0.1298E+02
WSW	0.0	0.0	0.0	0.1859E+00	0.9294E-01	0.0	0.0	0.2788E+00	0.1146E+02
W	0.0	0.0	0.1859E+00	0.0	0.0	0.4647E-01	0.0	0.2323E+00	0.8242E+01
WNW	0.0	0.0	0.1394E+00	0.0	0.4647E-01	0.0	0.0	0.1859E+00	0.7677E+01
NW	0.0	0.0	0.4647E-01	0.0	0.0	0.0	0.0	0.4647E-01	0.3730E+01
NNW	0.0	0.0	0.4647E-01	0.0	0.4647E-01	0.4647E-01	0.0	0.1394E+00	0.1267E+02
TOTAL	0.0	0.1859E+00	0.1162E+01	0.9294E+00	0.6041E+00	0.3717E+00	0.4647E-01	0.3299E+01	0.8546E+01
NUMBER OF CALMS - 0									
NUMBER OF BAD HOURS - 0									

STABILITY CLASS D
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.9294E-01	0.2788E+00	0.3253E+00	0.4647E+00	0.1859E+00	0.0	0.1348E+01	0.1171E+02
NNE	0.0	0.9294E-01	0.2788E+00	0.5576E+00	0.2788E+00	0.0	0.0	0.1208E+01	0.9547E+01
NE	0.0	0.4647E-01	0.2788E+00	0.6470E+00	0.9294E-01	0.0	0.0	0.1115E+01	0.8630E+01
ENE	0.0	0.4647E-01	0.4182E+00	0.2323E+00	0.0	0.0	0.0	0.6970E+00	0.7349E+01
E	0.0	0.9294E-01	0.2323E+00	0.9294E-01	0.0	0.0	0.0	0.4182E+00	0.5486E+01
ESE	0.0	0.1394E+00	0.3253E+00	0.1859E+00	0.0	0.0	0.0	0.6506E+00	0.6431E+01
SE	0.0	0.4647E-01	0.4647E+00	0.5576E+00	0.4647E-01	0.0	0.0	0.1115E+01	0.7806E+01
SSE	0.0	0.9294E-01	0.1394E+00	0.8364E+00	0.1859E+00	0.4647E-01	0.0	0.1301E+01	0.9853E+01
S	0.0	0.4647E-01	0.2788E+00	0.5112E+00	0.2788E+00	0.1394E+00	0.0	0.1255E+01	0.1107E+02
SSW	0.0	0.4647E-01	0.3253E+00	0.7435E+00	0.4647E+00	0.3717E+00	0.0	0.1952E+01	0.1234E+02
SW	0.0	0.0	0.2323E+00	0.9758E+00	0.1208E+01	0.2323E+00	0.9294E-01	0.2742E+01	0.1315E+02
WSW	0.0	0.4647E-01	0.1394E+00	0.6970E+00	0.4182E+00	0.1394E+00	0.9294E-01	0.1533E+01	0.1301E+02
W	0.0	0.4647E-01	0.2788E+00	0.3717E+00	0.1859E+00	0.0	0.0	0.8829E+00	0.9389E+01
WNW	0.0	0.0	0.1859E+00	0.3717E+00	0.4182E+00	0.9294E-01	0.0	0.1301E+01	0.1400E+02
NW	0.0	0.4647E-01	0.1859E+00	0.1394E+00	0.2323E+00	0.9294E-01	0.0	0.6970E+00	0.1100E+02
NNW	0.0	0.4647E-01	0.1394E+00	0.3253E+00	0.6041E+00	0.1394E+00	0.0	0.1255E+01	0.1331E+02
TOTAL	0.0	0.9294E+00	0.4182E+01	0.7621E+01	0.4879E+01	0.1673E+01	0.1859E+00	0.1947E+02	0.1026E+02
NUMBER OF CALMS - 0									
NUMBER OF BAD HOURS - 1									

ROBINSON ON-SITE METEOROLOGICAL FACILITY

[illegible]

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.4182E+00	0.3253E+00	0.4647E+00	0.0	0.0	0.1208E+01	0.9942E+01
NNE	0.0	0.0	0.3717E+00	0.3253E+00	0.4647E-01	0.0	0.0	0.7435E+00	0.7521E+01
NE	0.0	0.0	0.2323E+00	0.1394E+00	0.4647E-01	0.0	0.0	0.4182E+00	0.7263E+01
ENE	0.0	0.0	0.4647E-01	0.0	0.0	0.0	0.0	0.4647E-01	0.6780E+01
E	0.0	0.0	0.9294E-01	0.0	0.0	0.0	0.0	0.9294E-01	0.4930E+01
ESE	0.0	0.0	0.1394E+00	0.9294E-01	0.0	0.0	0.0	0.2323E+00	0.7442E+01
SE	0.0	0.0	0.1394E+00	0.6506E+00	0.0	0.0	0.0	0.7900E+00	0.9018E+01
SSE	0.0	0.4647E-01	0.2788E+00	0.4182E+00	0.9294E-01	0.0	0.0	0.8364E+00	0.8286E+01
S	0.0	0.0	0.4647E+00	0.1022E+01	0.1394E+00	0.0	0.0	0.1626E+01	0.9041E+01
SSW	0.0	0.0	0.2788E+00	0.2045E+01	0.2788E+00	0.0	0.0	0.2602E+01	0.9903E+01
SW	0.0	0.4647E-01	0.1394E+00	0.1255E+01	0.6041E+00	0.0	0.0	0.2045E+01	0.1081E+02
WSW	0.0	0.4647E-01	0.3717E+00	0.5112E+00	0.9294E-01	0.0	0.0	0.1022E+01	0.8280E+01
W	0.0	0.0	0.1394E+00	0.7435E+00	0.6506E+00	0.0	0.0	0.1533E+01	0.1119E+02
WNW	0.0	0.0	0.1859E+00	0.6506E+00	0.1859E+00	0.0	0.0	0.1022E+01	0.9803E+01
NW	0.0	0.0	0.1859E+00	0.9294E-01	0.0	0.0	0.0	0.2788E+00	0.6878E+01
NNW	0.0	0.0	0.1394E+00	0.1859E+00	0.4647E-01	0.0	0.0	0.3717E+00	0.9171E+01
TOTAL	0.0	0.1394E+00	0.3625E+01	0.8457E+01	0.2649E+01	0.0	0.0	0.1487E+02	0.8516E+01
NUMBER OF CALMS - 0									
NUMBER OF BAD HOURS - 0									

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 3/31/76

STABILITY CLASS G
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	0.75- 3.5	3.5- 7.5	SPEED CLASS(MPH)			18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
				7.5-12.5	12.5-18.5					
N	0.0	0.0	0.1394E+00	0.3253E+00	0.4647E-01	0.0	0.0	0.0	0.5112E+00	0.8833E+01
NNE	0.0	0.0	0.3253E+00	0.0	0.0	0.0	0.0	0.0	0.3253E+00	0.5631E+01
NE	0.0	0.0	0.3717E+00	0.0	0.0	0.0	0.0	0.0	0.3717E+00	0.5834E+01
ENE	0.0	0.0	0.2788E+00	0.0	0.0	0.0	0.0	0.0	0.2788E+00	0.4893E+01
E	0.0	0.0	0.9294E-01	0.0	0.0	0.0	0.0	0.0	0.9294E-01	0.4940E+01
ESE	0.0	0.0	0.2788E+00	0.2788E+00	0.0	0.0	0.0	0.0	0.5576E+00	0.7295E+01
SE	0.0	0.4647E-01	0.2788E+00	0.2323E+00	0.4647E-01	0.0	0.0	0.0	0.6041E+00	0.7195E+01
SSE	0.0	0.9294E-01	0.4182E+00	0.5112E+00	0.4647E-01	0.0	0.0	0.0	0.1069E+01	0.7423E+01
S	0.0	0.1859E+00	0.6041E+00	0.6970E+00	0.1394E+00	0.0	0.0	0.0	0.1626E+01	0.8108E+01
SSW	0.0	0.4647E-01	0.5112E+00	0.2045E+01	0.4647E-01	0.0	0.0	0.0	0.2649E+01	0.8936E+01
SW	0.0	0.0	0.6970E+00	0.9294E+00	0.3717E+00	0.0	0.0	0.0	0.1998E+01	0.8911E+01
WSW	0.0	0.0	0.7900E+00	0.8829E+00	0.9294E-01	0.0	0.0	0.0	0.1766E+01	0.8057E+01
W	0.0	0.9294E-01	0.2788E+00	0.2788E+00	0.4647E-01	0.0	0.0	0.0	0.6970E+00	0.7097E+01
WNW	0.0	0.4647E-01	0.3253E+00	0.2788E+00	0.9294E-01	0.0	0.0	0.0	0.7435E+00	0.8265E+01
NW	0.0	0.1394E+00	0.9294E-01	0.2323E+00	0.0	0.0	0.0	0.0	0.4647E+00	0.6212E+01
NNW	0.0	0.0	0.1859E+00	0.1859E+00	0.4647E-01	0.0	0.0	0.0	0.4182E+00	0.8191E+01
TOTAL	0.0	0.6506E+00	0.5669E+01	0.6877E+01	0.9758E+00	0.0	0.0	0.0	0.1417E+02	0.7239E+01
NUMBER OF CALMS - 0										
NUMBER OF BAD HOURS - 0										

SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

UPPER WIND DIRECTION	CALM	0.75- 3.5	3.5- 7.5	SPEED CLASS(MPH)			18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
				7.5-12.5	12.5-16.5					
N	0.0	0.2788E+00	0.1487E+01	0.2045E+01	0.1673E+01	0.2323E+00	0.0	0.5716E+01	0.1015E+02	
NNE	0.0	0.1859E+00	0.1719E+01	0.1673E+01	0.6506E+00	0.0	0.0	0.4229E+01	0.8548E+01	
NE	0.0	0.1394E+00	0.1301E+01	0.1580E+01	0.3253E+00	0.0	0.0	0.3346E+01	0.8386E+01	
ENE	0.0	0.9294E-01	0.1162E+01	0.5576E+00	0.0	0.0	0.0	0.1812E+01	0.6933E+01	
E	0.0	0.9294E-01	0.8829E+00	0.2788E+00	0.0	0.0	0.0	0.1255E+01	0.5876E+01	
ESE	0.0	0.1859E+00	0.1301E+01	0.7435E+00	0.0	0.0	0.0	0.2230E+01	0.6575E+01	
SE	0.0	0.1859E+00	0.1533E+01	0.2370E+01	0.3253E+00	0.0	0.0	0.4414E+01	0.8331E+01	
SSE	0.0	0.2323E+00	0.1487E+01	0.3903E+01	0.9758E+00	0.9294E-01	0.0	0.6691E+01	0.9455E+01	
S	0.0	0.2323E+00	0.2835E+01	0.5204E+01	0.2649E+01	0.3253E+00	0.0	0.1125E+02	0.1023E+02	
SSW	0.0	0.1394E+00	0.1766E+01	0.7493E+01	0.3346E+01	0.1069E+01	0.9294E-01	0.1441E+02	0.1145E+02	
SW	0.0	0.4647E-01	0.1998E+01	0.8457E+01	0.4972E+01	0.4647E+00	0.3253E+00	0.1626E+02	0.1159E+02	
WSW	0.0	0.1394E+00	0.1766E+01	0.3810E+01	0.1812E+01	0.3717E+00	0.9294E-01	0.7993E+01	0.1071E+02	
W	0.0	0.1859E+00	0.1580E+01	0.2695E+01	0.1441E+01	0.1859E+00	0.4647E-01	0.6134E+01	0.1014E+02	
WNW	0.0	0.4647E-01	0.1115E+01	0.2463E+01	0.1673E+01	0.4647E+00	0.4647E-01	0.5809E+01	0.1145E+02	
NW	0.0	0.2323E+00	0.7435E+00	0.1301E+01	0.9758E+00	0.1394E+00	0.1394E+00	0.3532E+01	0.1100E+02	
NNW	0.0	0.9294E-01	0.6506E+00	0.1580E+01	0.2416E+01	0.1859E+00	0.0	0.4926E+01	0.1200E+02	
TOTAL	0.0	0.2509E+01	0.2333E+02	0.4665E+02	0.2323E+02	0.3532E+01	0.7435E+00	0.1000E+03	0.1038E+02	
NUMBER OF CALMS - 0										
NUMBER OF BAD HOURS - 8										

STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

DIRECTION	LOWER WIND	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.7959E+00	0.5150E+00	0.0	0.0	0.0	0.1311E+01	0.7205E+01
NNE	0.0	0.4682E-01	0.6086E+00	0.1404E+00	0.0	0.0	0.0	0.7959E+00	0.6048E+01
NE	0.0	0.0	0.4682E+00	0.2341E+00	0.0	0.0	0.0	0.7022E+00	0.6195E+01
ENE	0.0	0.4682E-01	0.9363E-01	0.4682E-01	0.0	0.0	0.0	0.1873E+00	0.5935E+01
E	0.0	0.0	0.4682E-01	0.0	0.0	0.0	0.0	0.4682E-01	0.4000E+01
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.2809E+00	0.9363E-01	0.0	0.0	0.0	0.3745E+00	0.6371E+01
SSE	0.0	0.0	0.2341E+00	0.9363E-01	0.4682E-01	0.0	0.0	0.3745E+00	0.8154E+01
S	0.0	0.4682E-01	0.3745E+00	0.4682E+00	0.4682E-01	0.0	0.0	0.9363E+00	0.8191E+01
SSW	0.0	0.0	0.2809E+00	0.1124E+01	0.2341E+00	0.0	0.0	0.1639E+01	0.1008E+02
SW	0.0	0.0	0.8427E+00	0.1030E+01	0.0	0.0	0.0	0.1873E+01	0.8168E+01
WSW	0.0	0.0	0.4213E+00	0.3745E+00	0.4682E-01	0.0	0.0	0.8427E+00	0.7774E+01
W	0.0	0.0	0.9363E-01	0.2341E+00	0.0	0.0	0.0	0.3277E+00	0.7966E+01
WNW	0.0	0.0	0.2341E+00	0.3277E+00	0.0	0.0	0.0	0.5618E+00	0.7636E+01
NW	0.0	0.0	0.3745E+00	0.1404E+00	0.0	0.0	0.0	0.5150E+00	0.6730E+01
NNW	0.0	0.0	0.3745E+00	0.3277E+00	0.0	0.0	0.0	0.7022E+00	0.7424E+01
TOTAL	0.0	0.1404E+00	0.5524E+01	0.5150E+01	0.3745E+00	0.0	0.0	0.1119E+02	0.7192E+01
NUMBER OF CALMS - 0									
NUMBER OF BAD HOURS - 6									

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 3/31/76

STABILITY CLASS B
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

DIRECTION	LOWER WIND	SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.1404E+00	0.4682E-01	0.0	0.0	0.0	0.1873E+00	0.6472E+01
NNE	0.0	0.4682E-01	0.2809E+00	0.4682E-01	0.0	0.0	0.0	0.3745E+00	0.5870E+01
NE	0.0	0.0	0.4682E-01	0.4682E-01	0.0	0.0	0.0	0.9363E-01	0.6865E+01
ENE	0.0	0.0	0.0	0.9363E-01	0.0	0.0	0.0	0.9363E-01	0.8180E+01
E	0.0	0.0	0.1873E+00	0.0	0.0	0.0	0.0	0.1873E+00	0.6447E+01
ESE	0.0	0.0	0.1404E+00	0.0	0.0	0.0	0.0	0.1404E+00	0.7337E+01
SE	0.0	0.0	0.1404E+00	0.4682E-01	0.0	0.0	0.0	0.1873E+00	0.5177E+01
SSE	0.0	0.4682E-01	0.1404E+00	0.0	0.0	0.0	0.0	0.1873E+00	0.4465E+01
S	0.0	0.0	0.1404E+00	0.9363E-01	0.9363E-01	0.0	0.0	0.3277E+00	0.9603E+01
SSW	0.0	0.0	0.2341E+00	0.3277E+00	0.4682E-01	0.0	0.0	0.6086E+00	0.8899E+01
SW	0.0	0.0	0.2341E+00	0.2809E+00	0.4682E-01	0.0	0.0	0.5618E+00	0.9220E+01
WSW	0.0	0.0	0.9363E-01	0.1873E+00	0.4682E-01	0.0	0.0	0.3277E+00	0.8490E+01
W	0.0	0.0	0.9363E-01	0.4682E-01	0.0	0.0	0.0	0.1404E+00	0.7320E+01
WNW	0.0	0.0	0.9363E-01	0.0	0.0	0.0	0.0	0.9363E-01	0.5530E+01
NW	0.0	0.0	0.4682E-01	0.4682E-01	0.0	0.0	0.0	0.9363E-01	0.9315E+01
NNW	0.0	0.0	0.4682E-01	0.0	0.0	0.0	0.0	0.4682E-01	0.6000E+01
TOTAL	0.0	0.9363E-01	0.2060E+01	0.1264E+01	0.2341E+00	0.0	0.0	0.3652E+01	0.7199E+01
NUMBER OF CALMS -		0							
NUMBER OF BAD HOURS -		0							

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 3/31/76

STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

DIRECTION	LOWER WIND	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.9363E-01	0.1404E+00	0.0	0.0	0.0	0.0	0.2341E+00	0.4742E+01
NE	0.0	0.1404E+00	0.4682E-01	0.0	0.4682E-01	0.0	0.0	0.2341E+00	0.5072E+01
ENE	0.0	0.0	0.4682E-01	0.9363E-01	0.0	0.0	0.0	0.1404E+00	0.8083E+01
E	0.0	0.0	0.4682E-01	0.0	0.0	0.0	0.0	0.4682E-01	0.3750E+01
ESE	0.0	0.0	0.1404E+00	0.0	0.0	0.0	0.0	0.1404E+00	0.4293E+01
SE	0.0	0.0	0.9363E-01	0.4682E-01	0.0	0.0	0.0	0.1404E+00	0.6187E+01
SSE	0.0	0.4682E-01	0.0	0.9363E-01	0.4682E-01	0.0	0.0	0.1873E+00	0.8765E+01
S	0.0	0.0	0.9363E-01	0.1873E+00	0.0	0.0	0.0	0.2809E+00	0.7717E+01
SSW	0.0	0.0	0.1873E+00	0.1873E+00	0.0	0.0	0.0	0.3745E+00	0.7766E+01
SW	0.0	0.0	0.2809E+00	0.2341E+00	0.9363E-01	0.0	0.0	0.6086E+00	0.8795E+01
WSW	0.0	0.0	0.1873E+00	0.1404E+00	0.0	0.0	0.0	0.3277E+00	0.7417E+01
W	0.0	0.4682E-01	0.9363E-01	0.4682E-01	0.0	0.0	0.0	0.1873E+00	0.5990E+01
WNW	0.0	0.4682E-01	0.4682E-01	0.1404E+00	0.0	0.0	0.0	0.2341E+00	0.6792E+01
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.4682E-01	0.0	0.9363E-01	0.0	0.0	0.0	0.1404E+00	0.7367E+01
TOTAL	0.0	0.4213E+00	0.1404E+01	0.1264E+01	0.1873E+00	0.0	0.0	0.3277E+01	0.6624E+01
NUMBER OF CALMS -		0							
NUMBER OF BAD HOURS -		1							

ROBINSON ON-SITE METEOROLOGICAL FACILITY

DIRECTION	LOWER WIND	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.4682E-01	0.5150E+00	0.5150E+00	0.0	0.0	0.0	0.1077E+01	0.7143E+01
NNE	0.0	0.2341E+00	0.8427E+00	0.7022E+00	0.0	0.0	0.0	0.1779E+01	0.6455E+01
NE	0.0	0.9363E-01	0.5618E+00	0.5150E+00	0.0	0.0	0.0	0.1170E+01	0.6830E+01
ENE	0.0	0.9363E-01	0.6086E+00	0.3277E+00	0.0	0.0	0.0	0.1030E+01	0.6342E+01
E	0.0	0.9363E-01	0.2341E+00	0.9363E-01	0.0	0.0	0.0	0.4213E+00	0.5008E+01
ESE	0.0	0.2804E+00	0.6086E+00	0.4682E-01	0.0	0.0	0.0	0.9363E+00	0.4525E+01
SE	0.0	0.1873E+00	0.5618E+00	0.4682E-01	0.0	0.0	0.0	0.7959E+00	0.5214E+01
SSE	0.0	0.1873E+00	0.5150E+00	0.6086E+00	0.4682E-01	0.0	0.0	0.1358E+01	0.7233E+01
S	0.0	0.9363E-01	0.6554E+00	0.4682E+00	0.1873E+00	0.0	0.0	0.1404E+01	0.8459E+01
SSW	0.0	0.2341E+00	0.1030E+01	0.7491E+00	0.9363E-01	0.0	0.0	0.2107E+01	0.6903E+01
SW	0.0	0.4682E-01	0.8495E+00	0.1217E+01	0.2809E+00	0.0	0.0	0.2434E+01	0.8199E+01
WSW	0.0	0.4682E-01	0.6554E+00	0.5150E+00	0.9363E-01	0.0	0.0	0.1311E+01	0.7756E+01
W	0.0	0.4682E-01	0.5150E+00	0.2341E+00	0.0	0.0	0.0	0.7959E+00	0.6442E+01
WNW	0.0	0.1873E+00	0.4682E+00	0.2809E+00	0.0	0.0	0.0	0.9363E+00	0.6253E+01
NW	0.0	0.9363E-01	0.5150E+00	0.5150E+00	0.0	0.0	0.0	0.1124E+01	0.7183E+01
NNW	0.0	0.0	0.7491E+00	0.1873E+00	0.0	0.0	0.0	0.9363E+00	0.6640E+01
TOTAL	0.0	0.1966E+01	0.9925E+01	0.7022E+01	0.7022E+00	0.0	0.0	0.1962E+02	0.6661E+01
NUMBER OF CALMS - 0									
NUMBER OF BAD HOURS - 1									

STABILITY CLASS E
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION		CALM	SPEED CLASS (MPH)					TOTAL	AVG. WIND SPEED
			0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-25.0	GREATER THAN 25.0	
N	0.0	0.3745E+00	0.4682E+00	0.4682E-01	0.0	0.0	0.0	0.8895E+00	0.3954E+01
NNE	0.0	0.1873E+00	0.7491E+00	0.0	0.0	0.0	0.0	0.9363E+00	0.4919E+01
NE	0.0	0.1873E+00	0.6086E+00	0.0	0.0	0.0	0.0	0.7959E+00	0.4654E+01
ENE	0.0	0.9363E-01	0.2809E+00	0.1873E+00	0.0	0.0	0.0	0.5618E+00	0.5347E+01
E	0.0	0.9363E-01	0.4213E+00	0.1404E+00	0.0	0.0	0.0	0.6554E+00	0.5065E+01
ESE	0.0	0.9363E-01	0.2809E+00	0.0	0.0	0.0	0.0	0.3745E+00	0.4037E+01
SE	0.0	0.2341E+00	0.3745E+00	0.1873E+00	0.0	0.0	0.0	0.7959E+00	0.5015E+01
SSE	0.0	0.7022E+00	0.2060E+01	0.5618E+00	0.4682E-01	0.0	0.0	0.3371E+01	0.5458E+01
S	0.0	0.1124E+01	0.3558E+01	0.1498E+01	0.9363E-01	0.0	0.0	0.6273E+01	0.5906E+01
SSW	0.0	0.1030E+01	0.2949E+01	0.1264E+01	0.1404E+00	0.0	0.0	0.5384E+01	0.5837E+01
SW	0.0	0.7959E+00	0.2154E+01	0.7022E+00	0.0	0.0	0.0	0.3652E+01	0.5197E+01
WSW	0.0	0.4213E+00	0.1217E+01	0.4682E+00	0.4682E-01	0.0	0.0	0.2154E+01	0.5927E+01
W	0.0	0.5150E+00	0.9363E+00	0.2809E+00	0.4682E-01	0.0	0.0	0.1779E+01	0.5296E+01
WNW	0.0	0.6086E+00	0.7491E+00	0.1404E+00	0.4682E-01	0.0	0.0	0.1545E+01	0.4828E+01
NW	0.0	0.2341E+00	0.9831E+00	0.2341E+00	0.9363E-01	0.0	0.0	0.1545E+01	0.5921E+01
NNW	0.0	0.4213E+00	0.1966E+01	0.5618E+00	0.0	0.0	0.0	0.2949E+01	0.5461E+01
TOTAL	0.0	0.7116E+01	0.1976E+02	0.6273E+01	0.5150E+00	0.0	0.0	0.3366E+02	0.5176E+01
NUMBER OF CALMS -		0							
NUMBER OF BAD HOURS -		2							

STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

DIRECTION	LOWER WIND	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.0	0.2341E+00	0.1873E+00	0.0	0.0	0.0	0.0	0.4213E+00	0.3166E+01
NNE	0.0	0.2809E+00	0.4682E-01	0.0	0.0	0.0	0.0	0.3277E+00	0.2677E+01
NE	0.0	0.9363E-01	0.4682E-01	0.0	0.0	0.0	0.0	0.1404E+00	0.3127E+01
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.1404E+00	0.0	0.0	0.0	0.0	0.1404E+00	0.4347E+01
ESE	0.0	0.9363E-01	0.0	0.0	0.0	0.0	0.0	0.9363E-01	0.2040E+01
SE	0.0	0.1873E+00	0.4682E-01	0.0	0.0	0.0	0.0	0.2341E+00	0.2060E+01
SSE	0.0	0.5150E+00	0.3277E+00	0.4682E-01	0.0	0.0	0.0	0.8895E+00	0.3243E+01
S	0.9363E-01	0.1826E+01	0.7959E+00	0.0	0.0	0.0	0.0	0.2715E+01	0.3127E+01
SSW	0.9363E-01	0.1404E+01	0.9831E+00	0.4682E-01	0.0	0.0	0.0	0.2528E+01	0.3434E+01
SW	0.4682E-01	0.1077E+01	0.5150E+00	0.9363E-01	0.0	0.0	0.0	0.1732E+01	0.3543E+01
WSW	0.0	0.3745E+00	0.2809E+00	0.0	0.0	0.0	0.0	0.6554E+00	0.3585E+01
W	0.0	0.5618E+00	0.3277E+00	0.0	0.0	0.0	0.0	0.8895E+00	0.3224E+01
WNW	0.0	0.6086E+00	0.1873E+00	0.4682E-01	0.0	0.0	0.0	0.8427E+00	0.3407E+01
NW	0.4682E-01	0.6086E+00	0.3277E+00	0.0	0.0	0.0	0.0	0.9831E+00	0.3006E+01
NNW	0.4682E-01	0.1124E+01	0.7959E+00	0.9363E-01	0.0	0.0	0.0	0.2060E+01	0.3798E+01
TOTAL	0.3277E+00	0.8989E+01	0.5009E+01	0.3277E+00	0.0	0.0	0.0	0.1465E+02	0.3186E+01
NUMBER OF CALMS - 7									
NUMBER OF BAD HOURS - 7									

STABILITY CLASS G
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.9363E-01	0.5150E+00	0.7022E+00	0.0	0.0	0.0	0.0	0.1311E+01	0.3008E+01
NNE	0.0	0.3745E+00	0.5150E+00	0.0	0.0	0.0	0.0	0.8895E+00	0.2916E+01
NE	0.0	0.2341E+00	0.9363E-01	0.0	0.0	0.0	0.0	0.3277E+00	0.2103E+01
ENE	0.0	0.1404E+00	0.4682E-01	0.0	0.0	0.0	0.0	0.1873E+00	0.1495E+01
E	0.0	0.1404E+00	0.9363E-01	0.0	0.0	0.0	0.0	0.2341E+00	0.2724E+01
ESE	0.0	0.9363E-01	0.4682E-01	0.0	0.0	0.0	0.0	0.1404E+00	0.1817E+01
SE	0.0	0.1404E+00	0.4682E-01	0.0	0.0	0.0	0.0	0.1873E+00	0.1867E+01
SSE	0.9363E-01	0.7491E+00	0.1404E+00	0.0	0.0	0.0	0.0	0.9831E+00	0.1764E+01
S	0.1873E+00	0.1545E+01	0.8427E+00	0.0	0.0	0.0	0.0	0.2575E+01	0.2824E+01
SSW	0.1873E+00	0.1545E+01	0.5618E+00	0.0	0.0	0.0	0.0	0.2294E+01	0.2669E+01
SW	0.9363E-01	0.4682E+00	0.2809E+00	0.0	0.0	0.0	0.0	0.8427E+00	0.3032E+01
WSW	0.0	0.3745E+00	0.1404E+00	0.0	0.0	0.0	0.0	0.5150E+00	0.2489E+01
W	0.4682E-01	0.3745E+00	0.1873E+00	0.0	0.0	0.0	0.0	0.6086E+00	0.2728E+01
WNW	0.0	0.2809E+00	0.2341E+00	0.0	0.0	0.0	0.0	0.5150E+00	0.3096E+01
NW	0.9363E-01	0.4682E+00	0.2341E+00	0.0	0.0	0.0	0.0	0.7959E+00	0.3085E+01
NNW	0.9363E-01	0.8427E+00	0.6086E+00	0.0	0.0	0.0	0.0	0.1545E+01	0.2929E+01
TOTAL	0.8895E+00	0.8287E+01	0.4775E+01	0.0	0.0	0.0	0.0	0.1395E+02	0.2534E+01
NUMBER OF CALMS - 19									
NUMBER OF BAD HOURS - 7									

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 3/31/76

SUMMARY

STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	SPEED CLASS (MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.9363E-01	0.1170E+01	0.2809E+01	0.1124E+01	0.0	0.0	0.0	0.5197E+01	0.5264E+01
NNE	0.0	0.1264E+01	0.3184E+01	0.8895E+00	0.0	0.0	0.0	0.5337E+01	0.5187E+01
NE	0.0	0.7491E+00	0.1873E+01	0.7959E+00	0.4682E-01	0.0	0.0	0.3464E+01	0.5486E+01
ENE	0.0	0.3745E+00	0.1077E+01	0.7491E+00	0.0	0.0	0.0	0.2200E+01	0.5830E+01
E	0.0	0.3277E+00	0.1170E+01	0.2341E+00	0.0	0.0	0.0	0.1732E+01	0.4762E+01
ESE	0.0	0.5618E+00	0.1217E+01	0.4682E-01	0.0	0.0	0.0	0.1826E+01	0.4288E+01
SE	0.0	0.7491E+00	0.1545E+01	0.4213E+00	0.0	0.0	0.0	0.2715E+01	0.4860E+01
SSE	0.9363E-01	0.2247E+01	0.3418E+01	0.1404E+01	0.1873E+00	0.0	0.0	0.7350E+01	0.5265E+01
S	0.2809E+00	0.4635E+01	0.6461E+01	0.2715E+01	0.4213E+00	0.0	0.0	0.1451E+02	0.5400E+01
SSW	0.2809E+00	0.4213E+01	0.6227E+01	0.3699E+01	0.5150E+00	0.0	0.0	0.1493E+02	0.5787E+01
SW	0.1404E+00	0.2388E+01	0.5197E+01	0.3558E+01	0.4213E+00	0.0	0.0	0.1170E+02	0.6314E+01
WSW	0.0	0.1217E+01	0.2996E+01	0.1685E+01	0.2341E+00	0.0	0.0	0.6133E+01	0.6250E+01
W	0.4682E-01	0.1545E+01	0.2247E+01	0.8427E+00	0.4682E-01	0.0	0.0	0.4728E+01	0.5064E+01
WNW	0.0	0.1732E+01	0.2013E+01	0.9363E+00	0.4682E-01	0.0	0.0	0.4728E+01	0.5113E+01
NW	0.1404E+00	0.1404E+01	0.2481E+01	0.9363E+00	0.9363E-01	0.0	0.0	0.5056E+01	0.5398E+01
NNW	0.1404E+00	0.2434E+01	0.4541E+01	0.1264E+01	0.0	0.0	0.0	0.8380E+01	0.4945E+01
TOTAL	0.1217E+01	0.2701E+02	0.4845E+02	0.2130E+02	0.2013E+01	0.0	0.0	0.1000E+03	0.5487E+01
NUMBER OF CALMS - 26									
NUMBER OF BAD HOURS - 24									

ENCLOSURE 2

JOINT FREQUENCY OF WIND DIRECTION AND SPEED
SECOND QUARTER 1976
ROBINSON STEAM ELECTRIC PLANT

The attached tables present the frequency of wind direction occurrences by wind speed class as recorded at the on-site meteorological system during the period April 1 through June 30, 1976.

The frequencies are presented as a percent of total occurrences for each stability class as well as a summary for all classes for each sensor elevation. The first eight tables are for the upper sensor elevation (200 feet); the last eight tables are for the lower (35 feet) sensor elevation.

Pertinent information available from the tables is as follows:

1. Stability

Percent occurrence Pasquill categories:

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>
15.0	4.4	5.0	24.3	30.9	12.0	8.2

2. Wind Speed

35 Feet

200 Feet

Average speed (mph)
Percent calm
Percent less than 3.5 mph

4.9	9.7
1.3	0.04
36.7	4.7

3. Wind Direction

35 Feet

200 Feet

Prevailing direction
Percent occurrence

SSW	S
13.9	12.3

4. Data Recovery

35 Feet

200 Feet

Percent good hours

99.9	99.9
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STABILITY CLASS B
~~STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2~~

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	SPEED CLASS(MPH)			18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
				7.5-12.5	12.5-18.5					
N	0.0	0.0	0.0	0.4563E-01	0.0	0.0	0.0	0.0	0.4563E-01	0.8250E+01
NNE	0.0	0.0	0.1375E+00	0.4583E-01	0.4583E-01	0.4583E-01	0.0	0.0	0.2750E+00	0.1072E+02
NE	0.0	0.0	0.4583E-01	0.4583E-01	0.0	0.0	0.0	0.0	0.9166E-01	0.7175E+01
ENE	0.0	0.0	0.3208E+00	0.9166E-01	0.0	0.0	0.0	0.0	0.4125E+00	0.6547E+01
E	0.0	0.0	0.1375E+00	0.1375E+00	0.0	0.0	0.0	0.0	0.2750E+00	0.6672E+01
ESE	0.0	0.0	0.1375E+00	0.4583E-01	0.0	0.0	0.0	0.0	0.1833E+00	0.6277E+01
SE	0.0	0.4583E-01	0.1375E+00	0.2750E+00	0.0	0.0	0.0	0.0	0.4583E+00	0.7074E+01
SSE	0.0	0.0	0.4583E-01	0.1833E+00	0.4583E-01	0.0	0.0	0.0	0.2750E+00	0.9522E+01
S	0.0	0.4583E-01	0.1375E+00	0.1833E+00	0.9166E-01	0.9166E-01	0.0	0.0	0.5500E+00	0.1030E+02
SSW	0.0	0.0	0.4583E-01	0.1375E+00	0.9166E-01	0.0	0.0	0.0	0.2750E+00	0.1107E+02
SW	0.0	0.0	0.2750E+00	0.3666E+00	0.9166E-01	0.0	0.0	0.0	0.7333E+00	0.8954E+01
WSW	0.0	0.0	0.9166E-01	0.9166E-01	0.9166E-01	0.4583E-01	0.0	0.0	0.3208E+00	0.1249E+02
W	0.0	0.0	0.9166E-01	0.1375E+00	0.0	0.0	0.0	0.0	0.2291E+00	0.9126E+01
WNW	0.0	0.0	0.1375E+00	0.4583E-01	0.0	0.0	0.0	0.0	0.1833E+00	0.5265E+01
NW	0.0	0.0	0.0	0.9166E-01	0.4583E-01	0.0	0.0	0.0	0.1375E+00	0.1097E+02
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.9166E-01	0.1742E+01	0.1925E+01	0.5041E+00	0.1833E+00	0.0	0.0	0.4445E+01	0.8694E+01
NUMBER OF CALMS = 0										
NUMBER OF BAD HOURS = 0										

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 4/1/76 TO 11:00 PM 6/30/76

STABILITY CLASS C

~~STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2~~

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION		SPEED CLASS(MPH)						AVG. WIND SPEED	
	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	
N	0.0	0.0	0.1375E+00	0.1375E+00	0.0	0.0	0.0	0.2750E+00	0.7908E+01
NNE	0.0	0.0	0.4583E-01	0.9166E-01	0.4583E-01	0.1375E+00	0.0	0.3208E+00	0.1500E+02
NE	0.0	0.4583E-01	0.9166E-01	0.0	0.0	0.0	0.0	0.1375E+00	0.4910E+01
ENE	0.0	0.0	0.2291E+00	0.9166E-01	0.0	0.0	0.0	0.3208E+00	0.6403E+01
E	0.0	0.0	0.1833E+00	0.4583E-01	0.0	0.0	0.0	0.2291E+00	0.5894E+01
ESE	0.0	0.4583E-01	0.4583E-01	0.9166E-01	0.0	0.0	0.0	0.1833E+00	0.6840E+01
SE	0.0	0.0	0.2750E+00	0.1375E+00	0.4583E-01	0.0	0.0	0.4583E+00	0.7615E+01
SSE	0.0	0.0	0.2291E+00	0.0	0.4583E-01	0.0	0.0	0.2750E+00	0.7572E+01
S	0.0	0.4583E-01	0.1833E+00	0.1375E+00	0.1375E+00	0.4583E-01	0.0	0.5500E+00	0.1030E+02
SSW	0.0	0.0	0.2291E+00	0.2291E+00	0.9166E-01	0.9166E-01	0.0	0.6416E+00	0.9997E+01
SW	0.0	0.0	0.4583E-01	0.2750E+00	0.9166E-01	0.4583E-01	0.0	0.4583E+00	0.1123E+02
WSW	0.0	0.0	0.4583E-01	0.4125E+00	0.4583E-01	0.4583E-01	0.0	0.5500E+00	0.1065E+02
W	0.0	0.0	0.9166E-01	0.9166E-01	0.4583E-01	0.0	0.0	0.2291E+00	0.8732E+01
WNW	0.0	0.0	0.9166E-01	0.4583E-01	0.0	0.0	0.0	0.1375E+00	0.7920E+01
NW	0.0	0.0	0.9166E-01	0.4583E-01	0.9166E-01	0.0	0.0	0.2291E+00	0.9348E+01
NNW	0.0	0.0	0.0	0.4583E-01	0.0	0.0	0.0	0.4583E-01	0.7630E+01
TOTAL	0.0	0.1375E+00	0.2016E+01	0.1879E+01	0.6416E+00	0.3666E+00	0.0	0.5041E+01	0.8622E+01

~~NUMBER OF CALLS - 0~~

NUMBER OF BAD HOURS = 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 4/1/76 TO 11:00 PM 6/30/76

STABILITY CLASS D
~~STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2~~

ROBINSON UN-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION		CALM	SPEED CLASS(MPH)					GREATER THAN 25.0		TOTAL	AVG. WIND SPEED
			0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0				
N	0.0		0.9166E-01	0.5958E+00	0.3208E+00	0.4583E-01	0.9166E-01	0.0		0.1146E+01	0.7914E+01
NNE	0.0		0.9166E-01	0.2750E+00	0.4125E+00	0.1971E+01	0.6874E+00	0.9166E-01		0.3529E+01	0.1528E+02
NE	0.0		0.4583E-01	0.4583E+00	0.1833E+00	0.3666E+00	0.0	0.0		0.1054E+01	0.9692E+01
ENE	0.0		0.1833E+00	0.5041E+00	0.3666E+00	0.0	0.0	0.0		0.1054E+01	0.6753E+01
E	0.0		0.1833E+00	0.1008E+01	0.5958E+00	0.9166E-01	0.0	0.0		0.1879E+01	0.7189E+01
ESE	0.0		0.2291E+00	0.5041E+00	0.9624E+00	0.4583E+00	0.4583E-01	0.0		0.2200E+01	0.9521E+01
SE	0.0		0.9166E-01	0.5958E+00	0.1146E+01	0.2291E+00	0.0	0.0		0.2062E+01	0.8854E+01
SSE	0.0		0.9166E-01	0.6874E+00	0.8708E+00	0.9166E+00	0.0	0.0		0.2566E+01	0.1031E+02
S	0.0		0.4583E-01	0.4125E+00	0.1008E+01	0.3666E+00	0.0	0.0		0.1833E+01	0.1011E+02
SSW	0.0		0.9166E-01	0.4125E+00	0.6874E+00	0.6416E+00	0.4583E-01	0.0		0.1879E+01	0.1069E+02
SW	0.0		0.4583E-01	0.5958E+00	0.7333E+00	0.6416E+00	0.4583E-01	0.0		0.2062E+01	0.1047E+02
WSW	0.0		0.2291E+00	0.4125E+00	0.4583E+00	0.1833E+00	0.4583E-01	0.0		0.1329E+01	0.8249E+01
W	0.0		0.4583E-01	0.3666E+00	0.4125E+00	0.2750E+00	0.9166E-01	0.0		0.1192E+01	0.1018E+02
WNW	0.0		0.4583E-01	0.9166E-01	0.4583E-01	0.0	0.4583E-01	0.0		0.2291E+00	0.8828E+01
NW	0.0		0.0	0.0	0.4583E-01	0.9166E-01	0.0	0.0		0.1375E+00	0.1291E+02
NNW	0.0		0.0	0.1375E+00	0.4583E-01	0.0	0.0	0.0		0.1833E+00	0.5472E+01
TOTAL	0.0		0.1512E+01	0.7058E+01	0.8295E+01	0.6279E+01	0.1100E+01	0.9166E-01		0.2434E+02	0.9527E+01
NUMBER OF CALMS =		0									
NUMBER OF BAD HOURS =		0									

STABILITY CLASS E
-STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
N	0.0	0.4583E-01	0.1375E+00	0.3666E+00	0.4125E+00	0.2291E+00	0.0	0.1192E+01	0.1370E+02
NNE	0.0	0.4583E-01	0.2750E+00	0.5500E+00	0.9166E+00	0.1833E+00	0.0	0.1971E+01	0.1270E+02
NE	0.0	0.9166E-01	0.4583E+00	0.5958E+00	0.2291E+00	0.0	0.0	0.1375E+01	0.8332E+01
ENE	0.0	0.1375E+00	0.4583E+00	0.1375E+00	0.0	0.0	0.0	0.7333E+00	0.5486E+01
E	0.0	0.2291E+00	0.3208E+00	0.4583E+00	0.2291E+00	0.0	0.0	0.1237E+01	0.7826E+01
ESE	0.0	0.1833E+00	0.7333E+00	0.2291E+00	0.0	0.0	0.0	0.1146E+01	0.5994E+01
SE	0.0	0.1833E+00	0.8708E+00	0.1329E+01	0.4125E+00	0.0	0.0	0.2796E+01	0.8774E+01
SSE	0.0	0.9166E-01	0.7333E+00	0.1650E+01	0.8708E+00	0.0	0.0	0.3346E+01	0.1019E+02
S	0.0	0.9166E-01	0.9624E+00	0.3529E+01	0.1237E+01	0.1375E+00	0.0	0.5958E+01	0.1031E+02
SSW	0.0	0.9166E-01	0.7333E+00	0.2933E+01	0.6416E+00	0.0	0.0	0.4400E+01	0.9637E+01
SW	0.0	0.1375E+00	0.5500E+00	0.1283E+01	0.2750E+00	0.0	0.0	0.2246E+01	0.9487E+01
WSW	0.0	0.0	0.4125E+00	0.6874E+00	0.4125E+00	0.4583E-01	0.0	0.1558E+01	0.1056E+02
W	0.0	0.4583E-01	0.3666E+00	0.4583E+00	0.1375E+00	0.0	0.0	0.1008E+01	0.8385E+01
WNW	0.0	0.4583E-01	0.2750E+00	0.9166E-01	0.1833E+00	0.0	0.0	0.5958E+00	0.8373E+01
NW	0.0	0.0	0.1375E+00	0.4583E-01	0.3208E+00	0.4583E-01	0.0	0.5500E+00	0.1260E+02
NNW	0.0	0.4583E-01	0.1375E+00	0.9166E-01	0.4125E+00	0.1375E+00	0.0	0.8249E+00	0.1317E+02
TOTAL	0.0	0.1467E+01	0.7562E+01	0.1444E+02	0.6691E+01	0.7791E+00	0.0	0.3093E+02	0.9720E+01
NUMBER OF CALMS - 0									
NUMBER OF BAD HOURS - 0									

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 4/1/76 TO 11:04 PM 6/30/76

STABILITY CLASS G

-STABILITY CALCULATED FROM DIFF. TEMPERATURE #142

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND		SPEED CLASS (MPH)							AVG. WIND SPEED	
DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL		
N	0.0	0.0	0.1375E+00	0.2291E+00	0.4583E-01	0.0	0.0	0.4125E+00	0.9346E+01	
NNE	0.0	0.4583E-01	0.9166E-01	0.4583E-01	0.0	0.0	0.0	0.1833E+00	0.6565E+01	
NE	0.0	0.1833E+00	0.9166E-01	0.4583E-01	0.0	0.0	0.0	0.3208E+00	0.4203E+01	
ENE	0.0	0.9166E-01	0.1375E+00	0.9166E-01	0.4583E-01	0.0	0.0	0.3666E+00	0.6511E+01	
E	0.0	0.0	0.0	0.4583E-01	0.0	0.0	0.0	0.4583E-01	0.1168E+02	
ESE	0.0	0.0	0.0	0.4583E-01	0.0	0.0	0.0	0.4583E-01	0.1105E+02	
SE	0.0	0.4583E-01	0.2750E+00	0.0	0.0	0.0	0.0	0.3208E+00	0.5327E+01	
SSE	0.0	0.0	0.2750E+00	0.9166E-01	0.4583E-01	0.0	0.0	0.4125E+00	0.7568E+01	
S	0.0	0.1833E+00	0.2750E+00	0.1375E+00	0.4583E-01	0.0	0.0	0.6416E+00	0.6356E+01	
SSW	0.4583E-01	0.1833E+00	0.3666E+00	0.5041E+00	0.4583E-01	0.0	0.0	0.1146E+01	0.7759E+01	
SW	0.0	0.4583E-01	0.5041E+00	0.7333E+00	0.3666E+00	0.0	0.0	0.1650E+01	0.9074E+01	
WSW	0.0	0.4583E-01	0.3666E+00	0.5041E+00	0.9166E-01	0.0	0.0	0.1008E+01	0.8704E+01	
W	0.0	0.9166E-01	0.2750E+00	0.1375E+00	0.9166E-01	0.0	0.0	0.5958E+00	0.7372E+01	
WNW	0.0	0.1375E+00	0.1833E+00	0.0	0.4583E-01	0.0	0.0	0.3666E+00	0.5746E+01	
NW	0.0	0.0	0.2750E+00	0.0	0.0	0.0	0.0	0.2750E+00	0.5165E+01	
NNW	0.0	0.4583E-01	0.2750E+00	0.4583E-01	0.9166E-01	0.0	0.0	0.4583E+00	0.6709E+01	
TOTAL	0.4583E-01	0.1100E+01	0.3529E+01	0.2658E+01	0.9166E+00	0.0	0.0	0.6249E+01	0.7446E+01	
NUMBER OF CALMS -		1								
NUMBER OF BAD HOURS -		0								

SUMMARY

~~STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2~~

UPPER WIND		SPEED CLASS (MPH)						AVG. WIND SPEED	
DIRECTION	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	WIND SPEED
N	0.0	0.1375E+00	0.1237E+01	0.2062E+01	0.7333E+00	0.6416E+00	0.0	0.4812E+01	0.1090E+02
NNE	0.0	0.2291E+00	0.1329E+01	0.1421E+01	0.3254E+01	0.1421E+01	0.9166E-01	0.7745E+01	0.1364E+02
NE	0.0	0.4125E+00	0.1696E+01	0.1512E+01	0.1008E+01	0.0	0.0	0.4629E+01	0.8634E+01
ENE	0.0	0.4125E+00	0.2200E+01	0.1375E+01	0.2750E+00	0.0	0.0	0.4262E+01	0.7025E+01
E	0.0	0.4583E+00	0.2016E+01	0.1650E+01	0.3666E+00	0.0	0.0	0.4491E+01	0.7338E+01
ESE	0.0	0.4583E+00	0.1833E+01	0.1604E+01	0.4583E+00	0.4583E-01	0.0	0.4400E+01	0.7979E+01
SE	0.0	0.3666E+00	0.2704E+01	0.3300E+01	0.7333E+00	0.0	0.0	0.7104E+01	0.8347E+01
SSE	0.0	0.2291E+00	0.2429E+01	0.3437E+01	0.2062E+01	0.4583E-01	0.0	0.8203E+01	0.9741E+01
S	0.0	0.4583E+00	0.2841E+01	0.6554E+01	0.2200E+01	0.2750E+00	0.0	0.1233E+02	0.9825E+01
SSW	0.4583E-01	0.4583E+00	0.2383E+01	0.6645E+01	0.2108E+01	0.1375E+00	0.0	0.1178E+02	0.9806E+01
SW	0.0	0.2750E+00	0.2383E+01	0.6554E+01	0.2108E+01	0.3666E+00	0.0	0.1169E+02	0.1009E+02
WSW	0.0	0.2750E+00	0.1604E+01	0.3437E+01	0.1925E+01	0.2291E+00	0.0	0.7470E+01	0.1040E+02
W	0.0	0.2291E+00	0.1421E+01	0.2016E+01	0.9624E+00	0.1375E+00	0.0	0.4760E+01	0.9591E+01
WNW	0.0	0.2291E+00	0.8249E+00	0.6874E+00	0.6874E+00	0.4583E-01	0.0	0.2475E+01	0.9050E+01
NW	0.0	0.0	0.6416E+00	0.6874E+00	0.7333E+00	0.4583E-01	0.0	0.2108E+01	0.1024E+02
NNW	0.0	0.9166E-01	0.5500E+00	0.4125E+00	0.5500E+00	0.1375E+00	0.0	0.1742E+01	0.1015E+02
TOTAL	0.4583E-01	0.4720E+01	0.2809E+02	0.4335E+02	0.2016E+02	0.3529E+01	0.9166E-01	0.1000E+03	0.9749E+01

NUMBER OF CALMS - 1
NUMBER OF BAD HOURS - 2

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 4/1/76 TO 11:00 PM 6/30/76

STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0-7.5	7.5-12.5	12.5-18.5	18.5-25.0	25.0-32.0	GREATER THAN 32.0		
N	0.0	0.0	0.1375E+00	0.0	0.0	0.0	0.0	0.1375E+00	0.4667E+01
NNE	0.0	0.9166E-01	0.1833E+00	0.1833E+00	0.0	0.0	0.0	0.4583E+00	0.6250E+01
NE	0.0	0.4583E-01	0.9166E-01	0.0	0.0	0.0	0.0	0.1375E+00	0.3660E+01
ENE	0.0	0.9166E-01	0.1375E+00	0.0	0.0	0.0	0.0	0.2291E+00	0.4426E+01
E	0.0	0.9166E-01	0.1833E+00	0.0	0.0	0.0	0.0	0.2750E+00	0.4275E+01
ESE	0.0	0.9166E-01	0.1375E+00	0.0	0.0	0.0	0.0	0.2291E+00	0.4628E+01
SE	0.0	0.9166E-01	0.2750E+00	0.1375E+00	0.0	0.0	0.0	0.5041E+00	0.5438E+01
SSE	0.0	0.4583E-01	0.2750E+00	0.4583E-01	0.0	0.0	0.0	0.3666E+00	0.5271E+01
S	0.0	0.9166E-01	0.2750E+00	0.1375E+00	0.4583E-01	0.0	0.0	0.5500E+00	0.6867E+01
SSW	0.0	0.4583E-01	0.2750E+00	0.1833E+00	0.0	0.0	0.0	0.5041E+00	0.7089E+01
SW	0.0	0.0	0.5041E+00	0.1375E+00	0.0	0.0	0.0	0.6416E+00	0.6561E+01
WSW	0.0	0.0	0.3208E+00	0.4583E-01	0.4583E-01	0.0	0.0	0.4125E+00	0.6871E+01
W	0.0	0.4583E-01	0.9166E-01	0.4583E-01	0.0	0.0	0.0	0.1833E+00	0.5952E+01
WNW	0.0	0.0	0.9166E-01	0.0	0.0	0.0	0.0	0.9166E-01	0.5565E+01
NW	0.0	0.4583E-01	0.1833E+00	0.0	0.0	0.0	0.0	0.2291E+00	0.5478E+01
NNW	0.0	0.0	0.9166E-01	0.0	0.0	0.0	0.0	0.9166E-01	0.4315E+01
TOTAL	0.0	0.7791E+00	0.3254E+01	0.9166E+00	0.9166E-01	0.0	0.0	0.5041E+01	0.5457E+01

NUMBER OF CALMS = 0

NUMBER OF BAD HOURS = 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 4/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS D
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION		SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
		CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0		
N	0.0	0.0	0.2291E+00	0.5500E+00	0.9166E-01	0.0	0.0	0.8706E+00	0.4531E+01
NNE	0.0	0.0	0.4125E+00	0.1375E+01	0.1558E+01	0.4583E-01	0.0	0.3391E+01	0.6477E+01
NE	0.0	0.0	0.4125E+00	0.3208E+00	0.4583E+00	0.0	0.0	0.1192E+01	0.5967E+01
ENE	0.0	0.0	0.3666E+00	0.6416E+00	0.9166E-01	0.0	0.0	0.1100E+01	0.4540E+01
E	0.0	0.0	0.5958E+00	0.1237E+01	0.9166E-01	0.0	0.0	0.1925E+01	0.4357E+01
ESE	0.0	0.0	0.4583E+00	0.1237E+01	0.5041E+00	0.4583E-01	0.0	0.2246E+01	0.6240E+01
SE	0.0	0.0	0.4125E+00	0.1329E+01	0.3666E+00	0.0	0.0	0.2108E+01	0.5779E+01
SSE	0.0	0.0	0.3666E+00	0.1100E+01	0.1100E+01	0.0	0.0	0.2566E+01	0.6837E+01
S	0.0	0.0	0.9166E-01	0.1283E+01	0.5041E+00	0.0	0.0	0.1879E+01	0.6500E+01
SSW	0.0	0.0	0.4125E+00	0.1008E+01	0.5500E+00	0.0	0.0	0.1971E+01	0.5888E+01
SW	0.0	0.0	0.2750E+00	0.1100E+01	0.5500E+00	0.0	0.0	0.1925E+01	0.5496E+01
WSW	0.0	0.0	0.3666E+00	0.5500E+00	0.3208E+00	0.0	0.0	0.1237E+01	0.5261E+01
W	0.0	0.0	0.4125E+00	0.5500E+00	0.2750E+00	0.4583E-01	0.0	0.1263E+01	0.5410E+01
WNW	0.0	0.0	0.4583E-01	0.1375E+00	0.4583E-01	0.0	0.0	0.2291E+00	0.4942E+01
NW	0.0	0.0	0.4583E-01	0.9166E-01	0.4583E-01	0.0	0.0	0.1843E+00	0.5420E+01
NNW	0.0	0.0	0.1833E+00	0.4583E-01	0.0	0.0	0.0	0.2291E+00	0.2966E+01
TOTAL	0.0	0.0	0.5087E+01	0.1256E+02	0.6554E+01	0.1375E+00	0.0	0.2434E+02	0.5476E+01
NUMBER OF CALMS = 0									
NUMBER OF BAD HOURS = 0									

STABILITY CLASS E
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

LOWER WIND DIRECTION		SPEED CLASS(NPH)						AVG. WIND SPEED	
CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL		
N	0.0	0.4583E+00	0.4583E+00	0.2291E+00	0.0	0.0	0.0	0.1146E+01	0.4587E+01
NNE	0.0	0.5041E+00	0.1375E+01	0.1375E+00	0.0	0.0	0.0	0.2016E+01	0.5061E+01
NE	0.4583E-01	0.5958E+00	0.5500E+00	0.0	0.0	0.0	0.0	0.1192E+01	0.3581E+01
ENE	0.0	0.3208E+00	0.2750E+00	0.0	0.0	0.0	0.0	0.5958E+00	0.3620E+01
E	0.0	0.3208E+00	0.4583E+00	0.1375E+00	0.0	0.0	0.0	0.9166E+00	0.4670E+01
ESE	0.0	0.3666E+00	0.4125E+00	0.0	0.0	0.0	0.0	0.7791E+00	0.3588E+01
SE	0.0	0.5041E+00	0.6674E+00	0.3666E+00	0.0	0.0	0.0	0.1558E+01	0.5059E+01
SSE	0.4583E-01	0.7791E+00	0.2704E+01	0.7791E+00	0.0	0.0	0.0	0.4308E+01	0.5648E+01
S	0.4583E-01	0.1375E+01	0.2933E+01	0.1237E+01	0.9166E-01	0.0	0.0	0.5663E+01	0.5533E+01
SSW	0.9166E-01	0.2750E+01	0.1787E+01	0.2291E+00	0.0	0.0	0.0	0.4858E+01	0.3567E+01
SW	0.4583E-01	0.1650E+01	0.9624E+00	0.2291E+00	0.0	0.0	0.0	0.2887E+01	0.3691E+01
WSW	0.4583E-01	0.7333E+00	0.6416E+00	0.9166E-01	0.0	0.0	0.0	0.1512E+01	0.3808E+01
W	0.0	0.3208E+00	0.3208E+00	0.0	0.0	0.0	0.0	0.6416E+00	0.3424E+01
WNW	0.0	0.5041E+00	0.1375E+00	0.9166E-01	0.0	0.0	0.0	0.7333E+00	0.3214E+01
NW	0.0	0.1833E+00	0.3666E+00	0.9166E-01	0.0	0.0	0.0	0.6416E+00	0.4565E+01
NNW	0.0	0.5500E+00	0.8249E+00	0.9166E-01	0.0	0.0	0.0	0.1467E+01	0.4197E+01
TOTAL	0.3208E+00	0.1192E+02	0.1489E+02	0.3712E+01	0.9166E-01	0.0	0.0	0.3093E+02	0.4236E+01

NUMBER OF CALMS = 7
NUMBER OF BAD HOURS = 0

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 4/ 1/76 TO 11:00 PM 6/30/76

STABILITY CLASS F
~~STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2~~

ROBINSON UN-SITE METEOROLOGICAL FACILITY

LOWER WIND		SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
DIRECTION	CALM	0.75=3.5	3.5=7.5	7.5=12.5	12.5=18.5	18.5=25.0	GREATER THAN 25.0		
N	0.0	0.2291E+00	0.9166E-01	0.0	0.0	0.0	0.0	0.3208E+00	0.2643E+01
NNE	0.0	0.2750E+00	0.0	0.0	0.0	0.0	0.0	0.2750E+00	0.1755E+01
NE	0.0	0.1375E+00	0.1375E+00	0.0	0.0	0.0	0.0	0.2750E+00	0.2863E+01
ENE	0.0	0.2750E+00	0.0	0.0	0.0	0.0	0.0	0.2750E+00	0.2660E+01
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.4583E-01	0.0	0.0	0.0	0.0	0.4583E-01	0.4650E+01
SE	0.0	0.4583E-01	0.0	0.0	0.0	0.0	0.0	0.4583E-01	0.2230E+01
SSE	0.0	0.4125E+00	0.1833E+00	0.4583E-01	0.0	0.0	0.0	0.6416E+00	0.3147E+01
S	0.4583E-01	0.1329E+01	0.2291E+00	0.0	0.0	0.0	0.0	0.1604E+01	0.2393E+01
SSW	0.9166E-01	0.2979E+01	0.1833E+00	0.0	0.0	0.0	0.0	0.3254E+01	0.2393E+01
SW	0.4583E-01	0.1742E+01	0.1375E+00	0.0	0.0	0.0	0.0	0.1925E+01	0.2350E+01
WSW	0.4583E-01	0.7791E+00	0.3208E+00	0.0	0.0	0.0	0.0	0.1146E+01	0.2940E+01
W	0.0	0.5041E+00	0.9166E-01	0.0	0.0	0.0	0.0	0.5958E+00	0.1881E+01
WNW	0.0	0.1833E+00	0.4583E-01	0.0	0.0	0.0	0.0	0.2291E+00	0.2388E+01
NW	0.0	0.3666E+00	0.9166E-01	0.0	0.0	0.0	0.0	0.4583E+00	0.2586E+01
NNW	0.0	0.7333E+00	0.1833E+00	0.0	0.0	0.0	0.0	0.9166E+00	0.2433E+01
TOTAL	0.2291E+00	0.9991E+01	0.1742E+01	0.4583E-01	0.0	0.0	0.0	0.1201E+02	0.2621E+01
NUMBER OF CALMS =		5							
NUMBER OF BAD HOURS =		0							

STABILITY CLASS G
-STABILITY CALCULATED FROM DIFF. TEMPERATURE #1 & 2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION		SPEED CLASS(MPH)							AVG. WIND SPEED	
		CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0	TOTAL	
N	0.9106E+01	0.5958E+00	0.0	0.0	0.0	0.0	0.0	0.0	0.6874E+00	0.9877E+00
NNE	0.4583E+01	0.3208E+00	0.0	0.0	0.0	0.0	0.0	0.0	0.3666E+00	0.1670E+01
NE	0.0	0.1375E+00	0.0	0.0	0.0	0.0	0.0	0.0	0.1375E+00	0.1843E+01
ENE	0.0	0.2291E+00	0.0	0.0	0.0	0.0	0.0	0.0	0.2291E+00	0.8480E+00
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.9106E+01	0.0	0.0	0.0	0.0	0.0	0.0	0.9106E+01	0.8900E+00
SE	0.0	0.1833E+00	0.4583E+01	0.0	0.0	0.0	0.0	0.0	0.2291E+00	0.1480E+01
SSE	0.4583E+01	0.2750E+00	0.4583E+01	0.0	0.0	0.0	0.0	0.0	0.3666E+00	0.1856E+01
S	0.1375E+00	0.1146E+01	0.0	0.0	0.0	0.0	0.0	0.0	0.1283E+01	0.1890E+01
SSW	0.1375E+00	0.1146E+01	0.4583E+01	0.0	0.0	0.0	0.0	0.0	0.1329E+01	0.1791E+01
SW	0.1375E+00	0.8708E+00	0.4583E+01	0.0	0.0	0.0	0.0	0.0	0.1054E+01	0.2052E+01
WSW	0.0	0.2291E+00	0.4583E+01	0.0	0.0	0.0	0.0	0.0	0.2750E+00	0.2273E+01
W	0.0	0.2291E+00	0.0	0.0	0.0	0.0	0.0	0.0	0.2291E+00	0.1810E+01
WNW	0.0	0.9106E+01	0.4583E+01	0.0	0.0	0.0	0.0	0.0	0.1375E+00	0.2537E+01
NW	0.4583E+01	0.2750E+00	0.0	0.0	0.0	0.0	0.0	0.0	0.3208E+00	0.1882E+01
NNW	0.1375E+00	0.1054E+01	0.3208E+00	0.0	0.0	0.0	0.0	0.0	0.1512E+01	0.2446E+01
TOTAL	0.7791E+00	0.6874E+01	0.5958E+00	0.0	0.0	0.0	0.0	0.0	0.6249E+01	0.1750E+01
NUMBER OF CALMS -		17								
NUMBER OF BAD HOURS -		0								

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 4/ 1/76 TO 11:00 PM 6/30/76SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.9166E-01	0.1512E+01	0.1604E+01	0.6874E+00	0.0	0.0	0.0	0.3896E+01	0.4432E+01
NNE	0.4583E-01	0.1604E+01	0.3712E+01	0.2383E+01	0.4583E-01	0.0	0.0	0.7791E+01	0.6064E+01
NE	0.4583E-01	0.1329E+01	0.2016E+01	0.9624E+00	0.0	0.0	0.0	0.4354E+01	0.5056E+01
ENE	0.0	0.1421E+01	0.2108E+01	0.2750E+00	0.0	0.0	0.0	0.3804E+01	0.4397E+01
E	0.0	0.1054E+01	0.2841E+01	0.2750E+00	0.0	0.0	0.0	0.4170E+01	0.4661E+01
ESE	0.0	0.1100E+01	0.2246E+01	0.5500E+00	0.4583E-01	0.0	0.0	0.3941E+01	0.5311E+01
SE	0.0	0.1375E+01	0.3483E+01	0.1008E+01	0.0	0.0	0.0	0.5866E+01	0.5281E+01
SSE	0.9166E-01	0.1925E+01	0.5041E+01	0.2291E+01	0.0	0.0	0.0	0.9349E+01	0.5751E+01
S	0.2291E+00	0.4033E+01	0.5545E+01	0.2337E+01	0.2291E+00	0.0	0.0	0.1237E+02	0.5236E+01
SSW	0.3208E+00	0.7379E+01	0.4445E+01	0.1787E+01	0.0	0.0	0.0	0.1393E+02	0.4092E+01
SW	0.2291E+00	0.4583E+01	0.4766E+01	0.1787E+01	0.2291E+00	0.0	0.0	0.1159E+02	0.4855E+01
WSW	0.9166E-01	0.2154E+01	0.2475E+01	0.1192E+01	0.4583E-01	0.0	0.0	0.5958E+01	0.5013E+01
W	0.0	0.1512E+01	0.1650E+01	0.7333E+00	0.4583E-01	0.0	0.0	0.3941E+01	0.4940E+01
WNW	0.0	0.9624E+00	0.8708E+00	0.5500E+00	0.0	0.0	0.0	0.2383E+01	0.4772E+01
NW	0.4583E-01	0.9166E+00	0.1192E+01	0.2291E+00	0.0	0.0	0.0	0.2383E+01	0.4447E+01
NNW	0.1375E+00	0.2521E+01	0.1512E+01	0.9166E-01	0.0	0.0	0.0	0.4262E+01	0.3168E+01
TOTAL	0.1329E+01	0.3538E+02	0.4551E+02	0.1714E+02	0.6416E+00	0.0	0.0	0.1000E+03	0.4917E+01

NUMBER OF CALMS = 29

NUMBER OF BAD HOURS = 2

ENCLOSURE 3

DIFFUSION ANALYSIS
JANUARY 1 - JUNE 30, 1976
ROBINSON STEAM ELECTRIC PLANT

1. Description of Attachments -

The attached tables provide estimates of relative ground-level concentrations (X/Q) for the period January 1 through June 30, 1976, for release points considered to be at ground level. The additional attachment of joint wind frequency tables represents the meteorological data base used for the calculations.

2. Method of Calculation -

The ground-level release calculations represent sector averaged concentrations at the given distances from the center of the reactor buildings. The computer code used (RXQCON) was developed by the Technical Services Department Computer Unit. A wake correction factor from Regulatory Guide 1.111 was applied for the calculations. Input variables included:

1. Building height for wake correction = 59.4 meters
2. Joint wind frequency from the ten-meter level of the on-site meteorological tower
3. Sigma Z limited to 1000 meters

The values in the tables represent estimates that were not adjusted to account for radioactive decay or plume depletion. The proposed adjustment factors to account for the straight-line flow model limitations (Regulatory Guide 1.111, Section C.1.c, draft, February 1976) were not applied.

3. Description of Meteorological Data -

The wind frequency tables present the number of occurrences of hourly averaged combinations of wind direction, wind speed, and stability for the upper and lower sensor elevations.

Pertinent information from the table is as follows:

a. Stability

Percent occurrence Pasquill categories:

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>
13.1	4.1	4.2	22.0	32.3	13.3	11.1

b. Wind Speed

	<u>10 Meter</u>	<u>60 Meter</u>
Average speed (mph)	5.2	10.1
Percent calm	1.3	0.0
Percent less than 3.5 mph	32.5	3.6

c. Wind Direction

	<u>10 Meter</u>	<u>60 Meter</u>
Prevailing direction	SSW	SW
Percent occurrence	14.4	14.0

d. Data Recovery

	<u>10 Meter</u>	<u>60 Meter</u>
Percent good hours	99.4	99.8

4. Relative Concentration Estimates -

The site boundary distances used for the calculations are as prepared for the June 4, 1976, Appendix I submittal to the Nuclear Regulatory Commission.

The maximum ground-level release X/Q value at the site boundary is 2.0E-05 in the SSE sector.

TABLE 1

SITE BOUNDARY
UNDEPLETED - UNDECAYED RELATIVE CONCENTRATIONS (sec m^{-3})
SITE: ROBINSON
PERIOD: JANUARY 1 - JUNE 30, 1976
RELEASE ELEVATION: GROUND RELEASE

SECTOR	RELATIVE CONCENTRATION	SITE BOUNDARY DISTANCE	
		(MILES)	(METERS)
NNE	2.9E-06	1.26	2028
NE	2.5E-06	1.01	1625
ENE	1.5E-06	0.86	1384
E	2.3E-06	0.61	982
ESE	2.1E-06	0.50	805
SE	7.4E-06	0.29	467
SSE	2.0E-05	0.26	418
S	9.1E-06	0.28	451
SSW	8.2E-06	0.29	467
SW	2.8E-06	0.36	579
WSW	2.3E-06	0.36	579
W	1.1E-06	0.50	805
WNW	1.1E-06	0.55	885
NW	4.5E-07	1.23	1980
NNW	6.9E-07	1.89	3052
N	1.4E-06	1.94	3122

ROBINSON GROUND LEVEL RELEASE,, JANUARY-JUNE 1976

UNDEPLETED-UNDECAYED RELATIVE CONCENTRATIONS (sec m⁻³)

CHI/O CALCULATIONS

STANDARD DISTANCES

DISTANCES FROM SITE (METERS)

DIRECTION

METERS	805.	2414.	4024.	5633.	7242.	12070.	24141.	40235.	56329.	72423.
MILES	0.5	1.5	2.5	3.5	4.5	7.5	15.0	25.0	35.0	45.0
S	0.34062E-05	0.61721E-06	0.31268E-06	0.20487E-06	0.14956E-06	0.79186E-07	0.33681E-07	0.18049E-07	0.11999E-07	0.88571E-08
SSW	0.33335E-05	0.61692E-06	0.30332E-06	0.19390E-06	0.13918E-06	0.71514E-07	0.29400E-07	0.15443E-07	0.10145E-07	0.74264E-08
SW	0.16396E-05	0.31290E-06	0.15167E-06	0.95492E-07	0.67800E-07	0.34114E-07	0.13668E-07	0.70617E-08	0.45915E-08	0.33363E-08
WSW	0.13361E-05	0.24932E-06	0.12086E-06	0.76249E-07	0.54229E-07	0.27409E-07	0.11051E-07	0.57363E-08	0.37413E-08	0.27251E-08
W	0.11466E-05	0.21798E-06	0.10227E-06	0.62900E-07	0.43916E-07	0.21448E-07	0.82821E-08	0.41753E-08	0.26737E-08	0.19216E-08
WNW	0.12608E-05	0.24005E-06	0.11274E-06	0.69383E-07	0.48459E-07	0.23633E-07	0.91029E-08	0.45798E-08	0.29286E-08	0.21026E-08
NW	0.17453E-05	0.33150E-06	0.15851E-06	0.98850E-07	0.69714E-07	0.34709E-07	0.13733E-07	0.70380E-08	0.45535E-08	0.32971E-08
NNW	0.49832E-05	0.95486E-06	0.47357E-06	0.30340E-06	0.21803E-06	0.11213E-06	0.46055E-07	0.24125E-07	0.15814E-07	0.11556E-07
N	0.10527E-04	0.19909E-05	0.10080E-05	0.65524E-06	0.47555E-06	0.24885E-06	0.10425E-06	0.55286E-07	0.36509E-07	0.26817E-07
NNE	0.11947E-04	0.22794E-05	0.11525E-05	0.74686E-06	0.54082E-06	0.28180E-06	0.11743E-06	0.62040E-07	0.40873E-07	0.29972E-07
NE	0.73775E-05	0.14102E-05	0.70904E-06	0.45721E-06	0.32996E-06	0.17095E-06	0.70779E-07	0.37262E-07	0.24497E-07	0.17937E-07
ENE	0.34891E-05	0.67481E-06	0.33598E-06	0.21487E-06	0.15418E-06	0.79025E-07	0.32305E-07	0.16868E-07	0.11033E-07	0.80497E-08
E	0.31871E-05	0.60295E-06	0.30256E-06	0.19515E-06	0.14088E-06	0.73029E-07	0.30269E-07	0.15950E-07	0.10493E-07	0.76870E-08
ESE	0.20998E-05	0.41080E-06	0.20363E-06	0.12970E-06	0.92801E-07	0.47344E-07	0.19241E-07	0.10006E-07	0.65277E-08	0.47534E-08
SE	0.29082E-05	0.54334E-06	0.27608E-06	0.17991E-06	0.13079E-06	0.68660E-07	0.28875E-07	0.15355E-07	0.10157E-07	0.74699E-08
SSE	0.64781E-05	0.12011E-05	0.61461E-06	0.40324E-06	0.29452E-06	0.15586E-06	0.66149E-07	0.35365E-07	0.23469E-07	0.17299E-07

ROBINSON GROUND LEVEL RELEASE, JANUARY-JUNE 1976

CHI/G CALCULATIONS

DISTANCES FROM SITE (METERS)

DIRECTION

426, 16500, 11700, 5390, 2880, 3770,

S 0.10086E-04 0.53789E-07 0.82304E-07 0.21652E-06 0.47796E-06 0.33945E-06

SSW 0.95885E-05 0.47790E-07 0.74457E-07 0.20556E-06 0.47592E-06 0.33095E-06

SW 0.47043E-05 0.22524E-07 0.35561E-07 0.10144E-06 0.24158E-06 0.16600E-06

WSW 0.38306E-05 0.18149E-07 0.28564E-07 0.80972E-07 0.19218E-06 0.13222E-06

W 0.31513E-05 0.13921E-07 0.22397E-07 0.67016E-07 0.16685E-06 0.11245E-06

WNW 0.34183E-05 0.15322E-07 0.24681E-07 0.73919E-07 0.18378E-06 0.12394E-06

NW 0.49311E-05 0.22782E-07 0.36204E-07 0.10513E-06 0.25501E-06 0.17381E-06

NNW 0.14471E-04 0.74929E-07 0.11674E-06 0.32158E-06 0.74050E-06 0.51644E-06

N 0.31217E-04 0.16786E-06 0.25883E-06 0.69324E-06 0.15514E-05 0.10959E-05

NNE 0.35419E-04 0.18962E-06 0.29318E-06 0.79048E-06 0.17790E-05 0.12538E-05

NE 0.21890E-04 0.11467E-06 0.17790E-06 0.48422E-06 0.11003E-05 0.77217E-06

ENE 0.10236E-04 0.52693E-07 0.82293E-07 0.22780E-06 0.52586E-06 0.36651E-06

E 0.93629E-05 0.49010E-07 0.75999E-07 0.20667E-06 0.46954E-06 0.32949E-06

ESE 0.61653E-05 0.31484E-07 0.49315E-07 0.13758E-06 0.32003E-06 0.22231E-06

SE 0.86594E-05 0.46397E-07 0.71400E-07 0.19029E-06 0.42381E-06 0.30002E-06

SSE 0.19335E-04 0.10578E-06 0.16201E-06 0.42613E-06 0.93670E-06 0.66696E-06

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	0.75- 3.5	3.5- 7.5	SPEED CLASS(MPH)		18.5-25.0	GREATER THAN 25.0	TOTAL	AVG. WIND SPEED
				7.5-12.5	12.5-18.5				
N	0.	0.	9.	20.	13.	8.	0.	50.	12.1
NNE	0.	0.	12.	11.	6.	8.	0.	37.	11.8
NE	0.	0.	11.	20.	7.	0.	0.	38.	9.8
ENE	0.	0.	7.	9.	4.	0.	0.	20.	6.7
E	0.	0.	6.	5.	1.	0.	0.	12.	7.6
ESE	0.	0.	4.	2.	0.	0.	0.	6.	6.4
SE	0.	0.	13.	8.	0.	0.	0.	21.	7.7
SSE	0.	0.	9.	8.	4.	0.	0.	21.	8.7
S	0.	0.	8.	24.	9.	1.	0.	42.	10.6
SSW	0.	0.	8.	29.	27.	2.	2.	68.	12.7
SW	0.	0.	6.	61.	28.	6.	2.	103.	12.0
WSW	0.	0.	8.	24.	15.	2.	0.	47.	11.2
W	0.	0.	4.	12.	11.	3.	0.	26.	13.0
WNW	0.	0.	3.	20.	17.	0.	0.	40.	11.6
NW	0.	0.	1.	11.	8.	0.	0.	20.	11.4
NNW	0.	0.	0.	8.	7.	0.	0.	13.	12.1
TOTAL	0.	0.	105.	270.	157.	30.	4.	566.	10.5

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 8

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS B
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	SPEED CLASS (MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-20.0	GREATER THAN 25.0		
N	0.	2.	1.	2.	1.	0.	0.	6.	7.1
NNE	0.	0.	5.	1.	4.	1.	0.	11.	10.8
NE	0.	0.	3.	2.	1.	0.	0.	6.	9.3
ENE	0.	0.	8.	2.	0.	0.	0.	10.	6.4
E	0.	0.	5.	3.	0.	0.	0.	8.	6.2
ESE	0.	0.	0.	1.	0.	0.	0.	7.	5.6
SE	0.	2.	0.	7.	0.	0.	0.	15.	6.4
SSE	0.	0.	2.	6.	1.	0.	0.	9.	9.2
S	0.	1.	5.	6.	5.	2.	0.	19.	10.6
SSW	0.	0.	2.	6.	8.	1.	0.	17.	12.6
SW	0.	0.	0.	18.	7.	0.	2.	33.	11.2
WSW	0.	0.	3.	4.	5.	2.	0.	14.	12.0
W	0.	0.	3.	5.	0.	0.	0.	8.	6.9
WNW	0.	0.	3.	2.	1.	0.	0.	6.	7.8
NW	0.	0.	0.	4.	2.	0.	0.	6.	11.3
NNW	0.	0.	0.	0.	0.	0.	0.	0.	0.0
TOTAL	0.	5.	28.	69.	35.	6.	2.	175.	9.1

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-25.0		
N	0.	1.	4.	3.	0.	0.	8.	7.2
NNE	0.	0.	3.	3.	1.	3.	10.	12.8
NE	0.	3.	3.	0.	1.	0.	7.	5.9
ENE	0.	1.	6.	4.	0.	0.	11.	6.7
E	0.	0.	0.	1.	0.	0.	7.	5.9
ESE	0.	1.	3.	2.	0.	0.	6.	6.0
SE	0.	0.	0.	5.	1.	0.	12.	8.0
SSE	0.	0.	0.	0.	2.	0.	2.	8.1
S	0.	1.	7.	3.	0.	2.	19.	10.6
SSW	0.	0.	5.	9.	3.	4.	21.	10.8
SW	0.	0.	4.	13.	5.	4.	27.	12.3
WSW	0.	0.	1.	13.	3.	1.	18.	10.9
W	0.	0.	0.	2.	1.	1.	10.	8.5
WNW	0.	0.	5.	1.	1.	0.	7.	7.8
NW	0.	0.	3.	1.	2.	0.	6.	8.4
NNW	0.	0.	1.	1.	1.	1.	4.	11.4
TOTAL	0.	7.	69.	61.	27.	10.	181.	8.8

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:03 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS D
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.	4.	19.	14.	11.	6.	0.	54.	9.9
NNE	0.	4.	12.	21.	44.	15.	2.	103.	13.8
NE	0.	2.	10.	19.	10.	0.	0.	47.	9.1
ENE	0.	5.	20.	13.	0.	0.	0.	38.	7.0
E	0.	0.	27.	15.	2.	0.	0.	50.	6.9
ESE	0.	8.	18.	25.	10.	1.	0.	62.	8.6
SE	0.	3.	23.	37.	0.	0.	0.	63.	8.5
SSE	0.	4.	10.	37.	24.	1.	0.	84.	10.2
S	0.	2.	15.	33.	14.	3.	0.	67.	10.5
SSW	0.	2.	10.	31.	24.	9.	0.	85.	11.5
SW	0.	1.	18.	37.	40.	0.	2.	104.	12.0
WSW	0.	0.	12.	25.	13.	4.	2.	62.	10.6
W	0.	2.	14.	17.	10.	2.	0.	45.	9.8
WNW	0.	1.	0.	9.	9.	8.	0.	33.	13.2
NW	0.	1.	4.	4.	7.	2.	0.	18.	11.3
NNW	0.	1.	0.	0.	13.	3.	0.	31.	12.3
TOTAL	0.	53.	244.	345.	242.	60.	0.	950.	10.4

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 1

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS E
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-20.5	GREATER THAN 25.0		
N	0.	2.	6.	21.	14.	5.	0.	50.	11.7
NNE	0.	3.	13.	23.	24.	4.	0.	67.	11.4
NE	0.	2.	15.	21.	7.	0.	0.	45.	8.6
ENE	0.	3.	15.	8.	0.	0.	0.	26.	6.5
E	0.	5.	12.	14.	5.	0.	0.	36.	7.7
ESE	0.	5.	23.	9.	0.	0.	0.	37.	6.2
SE	0.	5.	26.	43.	14.	0.	0.	88.	9.0
SSE	0.	2.	25.	78.	31.	1.	0.	137.	10.3
S	0.	2.	45.	129.	62.	5.	0.	243.	10.6
SSW	0.	3.	27.	112.	47.	10.	0.	199.	11.0
SW	0.	3.	27.	97.	42.	2.	0.	171.	10.8
WSW	0.	1.	14.	34.	26.	4.	0.	81.	11.6
W	0.	2.	21.	29.	12.	1.	1.	66.	9.7
WNW	0.	1.	5.	15.	14.	3.	1.	43.	11.3
NW	0.	1.	7.	13.	10.	2.	3.	42.	13.2
NNW	0.	2.	6.	17.	38.	3.	0.	66.	12.5
TOTAL	0.	42.	291.	663.	354.	40.	5.	1395.	10.1

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 1

STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2.

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.	0.	12.	17.	11.	0.	0.	40.	9.6
NNE	0.	1.	12.	7.	1.	0.	0.	21.	6.9
NE	0.	1.	9.	4.	3.	0.	0.	17.	7.5
ENE	0.	0.	8.	4.	1.	0.	0.	13.	7.4
E	0.	1.	5.	3.	0.	0.	0.	9.	6.0
ESE	0.	0.	8.	5.	0.	0.	0.	13.	7.3
SE	0.	0.	6.	18.	1.	0.	0.	25.	8.9
SSE	0.	2.	10.	17.	2.	1.	0.	32.	8.4
S	0.	1.	24.	42.	5.	0.	0.	72.	8.7
SSW	0.	2.	13.	75.	7.	0.	0.	97.	9.5
SW	0.	2.	6.	63.	15.	0.	0.	88.	10.2
WSW	0.	1.	12.	27.	13.	0.	0.	53.	10.0
W	0.	1.	7.	26.	15.	0.	0.	51.	10.4
WNW	0.	0.	5.	15.	0.	0.	0.	20.	9.8
NW	0.	0.	7.	5.	2.	0.	0.	14.	6.0
NNW	0.	0.	3.	0.	2.	0.	0.	11.	9.9
TOTAL	0.	12.	149.	336.	84.	1.	0.	582.	8.7

NUMBER OF LEAD HOURS -

NUMBER OF DEAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76

STABILITY CLASS 6
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION		SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0				
N	0.	0.	0.	12.	2.	0.	0.	20.	9.1	
NNE	0.	1.	4.	1.	0.	0.	0.	11.	6.0	
NE	0.	4.	10.	1.	0.	0.	0.	15.	5.1	
ENE	0.	2.	9.	2.	1.	0.	0.	14.	5.8	
E	0.	0.	2.	1.	0.	0.	0.	3.	7.2	
ESE	0.	0.	0.	7.	0.	0.	0.	13.	7.6	
SE	0.	2.	12.	5.	1.	0.	0.	20.	6.5	
SSE	0.	2.	15.	13.	2.	0.	0.	32.	7.5	
S	1.	0.	19.	18.	4.	0.	0.	50.	7.6	
SSW	0.	0.	19.	55.	2.	0.	0.	81.	8.6	
SW	0.	1.	26.	36.	10.	0.	0.	73.	9.0	
WSW	0.	1.	25.	30.	4.	0.	0.	60.	8.3	
W	0.	4.	12.	9.	3.	0.	0.	28.	7.2	
WNW	0.	4.	11.	0.	3.	0.	0.	24.	7.4	
NW	0.	3.	8.	5.	0.	0.	0.	16.	5.8	
NNW	0.	1.	10.	5.	3.	0.	0.	19.	7.4	
TOTAL	1.	38.	199.	206.	41.	0.	0.	485.	7.3	
NUMBER OF CALMS - 1										
NUMBER OF BAD HOOKS - 0										

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76

SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON UN-SITE METEOROLOGICAL FACILITY

UPPER WIND DIRECTION		SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0			
N	0.	9.	59.	89.	52.	19.	0.	228.	10.5
NNE	0.	9.	66.	67.	85.	31.	2.	260.	11.9
NE	0.	12.	65.	67.	29.	0.	0.	173.	8.5
ENE	0.	11.	73.	42.	6.	0.	0.	132.	7.0
E	0.	12.	63.	42.	8.	0.	0.	122.	7.0
ESE	0.	14.	68.	51.	10.	1.	0.	144.	7.5
SE	0.	12.	92.	123.	23.	0.	0.	250.	8.3
SSE	0.	10.	65.	159.	66.	3.	0.	323.	9.6
S	1.	15.	123.	255.	105.	13.	0.	512.	10.0
SSW	0.	13.	90.	317.	116.	26.	2.	566.	10.7
SW	0.	7.	92.	325.	153.	16.	7.	605.	11.0
WSW	0.	9.	73.	157.	81.	13.	2.	335.	10.6
W	0.	9.	65.	102.	52.	7.	1.	236.	9.9
WNW	0.	6.	42.	66.	51.	11.	1.	179.	10.7
NW	0.	5.	30.	43.	37.	4.	3.	122.	10.7
NNW	0.	4.	26.	43.	64.	7.	0.	144.	11.5
TOTAL	1.	157.	1115.	1950.	940.	153.	16.	4334.	10.1
NUMBER OF CALMS - 1									
NUMBER OF EAD HOURS - 10									

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS A
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-25.0	GREATER THAN 25.0		
N	0.	0.	24.	19.	0.	0.	0.	43.	7.4
NNE	0.	1.	28.	13.	0.	0.	0.	42.	6.8
NE	0.	0.	25.	16.	0.	0.	0.	41.	6.5
ENE	0.	3.	20.	5.	0.	0.	0.	28.	5.6
E	0.	1.	13.	1.	0.	0.	0.	15.	5.7
ESE	0.	1.	7.	1.	0.	0.	0.	9.	5.2
SE	0.	1.	22.	4.	0.	0.	0.	27.	5.8
SSE	0.	0.	16.	6.	1.	0.	0.	23.	7.3
S	0.	1.	22.	18.	1.	0.	0.	42.	7.7
SSW	0.	1.	24.	40.	5.	0.	0.	70.	8.6
SW	0.	1.	52.	36.	5.	0.	0.	94.	7.7
WSW	0.	0.	19.	22.	1.	0.	0.	42.	7.9
W	0.	0.	10.	13.	0.	0.	0.	23.	7.9
WNW	0.	0.	12.	16.	0.	0.	0.	28.	7.5
NW	0.	0.	16.	5.	0.	0.	0.	21.	6.6
NNW	0.	0.	9.	7.	0.	0.	0.	16.	7.3
TOTAL	0.	10.	319.	224.	13.	0.	0.	566.	7.0

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 8

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS B
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-20.5	GREATER THAN 25.0		
N	0.	0.	4.	1.	0.	0.	0.	5.	6.2
NNE	0.	1.	6.	2.	0.	0.	0.	11.	6.1
NE	0.	0.	6.	1.	0.	0.	0.	7.	5.5
ENE	0.	1.	5.	2.	0.	0.	0.	8.	5.6
E	0.	0.	13.	0.	0.	0.	0.	13.	5.1
ESE	0.	1.	5.	0.	0.	0.	0.	6.	6.0
SE	0.	2.	12.	2.	0.	0.	0.	16.	5.2
SSE	0.	2.	8.	3.	0.	0.	0.	13.	5.3
S	0.	0.	7.	4.	4.	0.	0.	15.	9.1
SSW	0.	0.	12.	9.	1.	0.	0.	22.	7.7
SW	0.	0.	15.	9.	1.	0.	0.	25.	7.6
WSW	0.	1.	5.	0.	1.	0.	0.	15.	7.7
W	0.	0.	7.	2.	0.	0.	0.	9.	7.1
WNW	0.	3.	4.	0.	0.	0.	0.	7.	4.7
NW	0.	0.	3.	1.	0.	0.	0.	4.	7.6
NNW	0.	0.	1.	0.	0.	0.	0.	1.	6.0
TOTAL	0.	11.	115.	42.	7.	0.	0.	175.	6.4

NUMBER OF CALMS - 0

NUMBER OF BAD HOURS - 0

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS C
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	0.	0.	3.	0.	0.	0.	0.	3.	4.7
NNE	0.	4.	7.	4.	0.	0.	0.	15.	5.7
NE	0.	4.	3.	0.	1.	0.	0.	8.	4.5
ENE	0.	2.	4.	2.	0.	0.	0.	8.	5.8
E	0.	2.	5.	0.	0.	0.	0.	7.	4.2
ESE	0.	2.	0.	0.	0.	0.	0.	8.	4.5
SE	0.	2.	8.	4.	0.	0.	0.	14.	5.6
SSE	0.	2.	0.	3.	1.	0.	0.	12.	6.4
S	0.	2.	8.	7.	1.	0.	0.	18.	7.1
SSW	0.	1.	10.	8.	0.	0.	0.	19.	7.4
SW	0.	0.	17.	8.	2.	0.	0.	27.	7.6
WSW	0.	0.	11.	4.	1.	0.	0.	16.	7.1
W	0.	2.	4.	2.	0.	0.	0.	8.	6.0
WNW	0.	1.	3.	3.	0.	0.	0.	7.	6.4
NW	0.	1.	4.	0.	0.	0.	0.	5.	5.5
NNW	0.	1.	2.	2.	0.	0.	0.	5.	6.1
TOTAL	0.	26.	101.	47.	6.	0.	0.	180.	5.9

NUMBER OF CALMS - 0

NUMBER OF RAD HOURS - 1

STABILITY CLASS D
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-25.0	GREATER THAN 25.0		
N	0.	0.	23.	13.	0.	0.	0.	42.	6.0
NNE	0.	14.	48.	49.	1.	0.	0.	112.	6.8
NE	0.	11.	19.	21.	0.	0.	0.	51.	6.4
ENE	0.	10.	27.	9.	0.	0.	0.	46.	5.4
E	0.	15.	32.	4.	0.	0.	0.	51.	4.5
ESE	0.	16.	40.	12.	1.	0.	0.	69.	5.7
SE	0.	13.	41.	9.	0.	0.	0.	63.	5.6
SSE	0.	12.	35.	37.	1.	0.	0.	85.	7.0
S	0.	4.	42.	21.	4.	0.	0.	71.	7.3
SSW	0.	14.	44.	28.	2.	0.	0.	88.	6.4
SW	0.	7.	43.	38.	0.	0.	0.	94.	7.2
WSW	0.	9.	26.	16.	2.	0.	0.	55.	6.5
W	0.	10.	23.	11.	1.	0.	0.	45.	5.8
WNW	0.	5.	13.	7.	0.	0.	0.	25.	6.0
NW	0.	3.	13.	12.	0.	0.	0.	28.	6.9
NNW	0.	4.	17.	4.	0.	0.	0.	25.	5.9
TOTAL	0.	153.	486.	293.	18.	0.	0.	950.	6.2

NUMBER OF CALMS - 0
NUMBER OF FAD HOOKS - 1

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76STABILITY CLASS E
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-25.0	GREATER THAN 25.0		
N	0.	10.	20.	6.	0.	0.	0.	44.	4.3
NNE	0.	15.	40.	3.	0.	0.	0.	64.	5.0
NE	0.	17.	25.	0.	0.	0.	0.	42.	4.0
ENE	0.	9.	12.	4.	0.	0.	0.	25.	4.4
E	0.	9.	19.	6.	0.	0.	0.	34.	4.6
ESE	0.	10.	15.	0.	0.	0.	0.	25.	3.7
SE	0.	10.	23.	12.	0.	0.	0.	51.	5.0
SSE	1.	32.	103.	29.	1.	0.	0.	166.	5.6
S	1.	54.	149.	59.	4.	0.	0.	258.	5.7
SSW	2.	62.	102.	32.	3.	0.	0.	221.	4.8
SW	1.	53.	67.	20.	0.	0.	0.	141.	4.5
WSW	1.	25.	40.	12.	1.	0.	0.	79.	5.1
W	0.	18.	27.	6.	1.	0.	0.	52.	4.8
WNW	1.	24.	19.	5.	1.	0.	0.	50.	4.3
NW	0.	9.	29.	7.	2.	0.	0.	47.	5.5
NNW	0.	21.	60.	14.	0.	0.	0.	95.	5.0
TOTAL	7.	412.	747.	215.	13.	0.	0.	1394.	4.6

NUMBER OF CALMS - 7

NUMBER OF BAD HOURS - 2

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/1/76 TO 11:00 PM 6/30/76STABILITY CLASS F
STABILITY CALCULATED FROM DIFF. TEMPERATURE $\pm 1 \pm 2$

ROBINSON ON-SITE METEOROLOGICAL FACILITY

WIND DIRECTION	SPEED CLASS (MPH)						TOTAL	AVG. WIND SPEED
	CALM	0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-18.5	18.5-25.0		
N	0.	10.	0.	0.	0.	0.	10.	2.9
NNE	0.	12.	1.	0.	0.	0.	13.	2.3
NE	0.	5.	4.	0.	0.	0.	9.	3.0
ENE	0.	0.	0.	0.	0.	0.	0.	2.7
E	0.	0.	2.	0.	0.	0.	2.	4.3
ESE	0.	2.	1.	0.	0.	0.	3.	2.9
SE	0.	5.	1.	0.	0.	0.	6.	2.1
SSE	0.	20.	11.	2.	0.	0.	33.	3.2
S	2.	66.	22.	0.	0.	0.	90.	2.8
SSW	3.	95.	25.	1.	0.	0.	124.	2.8
SW	2.	61.	14.	2.	0.	0.	79.	2.9
WSW	1.	25.	15.	0.	0.	0.	35.	3.2
W	1.	23.	9.	0.	0.	0.	33.	2.7
WNW	0.	17.	5.	1.	0.	0.	23.	3.2
NW	1.	21.	9.	0.	0.	0.	31.	2.9
NNW	2.	40.	21.	2.	0.	0.	65.	3.4
TOTAL	12.	410.	145.	6.	0.	0.	575.	3.0

NUMBER OF CALMS - 12

NUMBER OF DRY HOURS - 7

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/ 1/76 TO 11:00 PM 6/30/76

STABILITY CLASS 6
STABILITY CALCULATED FROM DIFF. TEMPERATURE $\pm 1^{\circ}$

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	CALM	SPEED CLASS(MPH)						TOTAL	AVG. WIND SPEED
		0.75- 3.5	3.5- 7.5	7.5-12.5	12.5-16.5	16.5-25.0	GREATER THAN 25.0		
N	3.	24.	15.	0.	0.	0.	0.	42.	2.3
NNE	2.	15.	11.	0.	0.	0.	0.	28.	2.6
NE	0.	8.	2.	0.	0.	0.	0.	10.	2.0
ENE	0.	8.	1.	0.	0.	0.	0.	9.	1.1
E	0.	3.	2.	0.	0.	0.	0.	5.	2.7
ESE	0.	4.	1.	0.	0.	0.	0.	5.	1.4
SE	0.	7.	2.	0.	0.	0.	0.	9.	1.7
SSE	3.	22.	4.	0.	0.	0.	0.	29.	1.8
S	7.	50.	10.	0.	0.	0.	0.	67.	2.5
SSW	7.	50.	13.	0.	0.	0.	0.	70.	2.3
SW	4.	29.	7.	0.	0.	0.	0.	40.	2.5
WSW	1.	13.	4.	0.	0.	0.	0.	18.	2.4
W	2.	13.	4.	0.	0.	0.	0.	19.	2.5
WNW	0.	8.	0.	0.	0.	0.	0.	14.	3.0
NW	2.	10.	5.	0.	0.	0.	0.	23.	2.7
NNW	5.	41.	20.	0.	0.	0.	0.	66.	2.7
TOTAL	36.	327.	115.	0.	0.	0.	0.	478.	2.3

NUMBER OF CALMS - 35
NUMBER OF BAD HOURS - 7

JOINT OCCURRENCE FREQUENCIES OF WIND DIRECTION AND SPEED
FOR THE PERIOD 12:00 AM 1/1/76 TO 11:00 PM 6/30/76SUMMARY
STABILITY CALCULATED FROM DIFF. TEMPERATURE #1+2

ROBINSON ON-SITE METEOROLOGICAL FACILITY

LOWER WIND DIRECTION	SPEED CLASS(MPH)							TOTAL	AVG. WIND SPEED
	CALM	0.75-3.5	3.5-7.5	7.5-12.5	12.5-18.5	18.5-25.0	GREATER THAN 25.0		
N	3.	58.	95.	39.	0.	0.	0.	195.	4.9
NNE	2.	62.	149.	71.	1.	0.	0.	285.	5.7
NE	0.	45.	84.	38.	1.	0.	0.	168.	5.2
NNE	0.	39.	69.	22.	0.	0.	0.	130.	4.9
E	0.	30.	67.	11.	0.	0.	0.	128.	4.7
ESE	0.	36.	75.	13.	1.	0.	0.	125.	5.0
SE	0.	40.	109.	31.	0.	0.	0.	180.	5.1
SSE	4.	90.	183.	80.	4.	0.	0.	361.	5.5
S	10.	167.	259.	109.	14.	0.	0.	579.	5.3
SSW	12.	251.	230.	116.	11.	0.	0.	622.	5.0
SW	7.	151.	215.	115.	14.	0.	0.	522.	5.6
WSW	3.	73.	110.	62.	6.	0.	0.	262.	5.6
W	3.	66.	84.	34.	2.	0.	0.	189.	5.0
WNW	1.	58.	62.	32.	1.	0.	0.	154.	5.0
NW	3.	50.	79.	25.	2.	0.	0.	159.	5.1
NNW	7.	107.	130.	29.	0.	0.	0.	273.	4.3
TOTAL	55.	1349.	2028.	829.	57.	0.	0.	4318.	5.2

NUMBER OF CALMS - 55

NUMBER OF BAD HOURS - 20