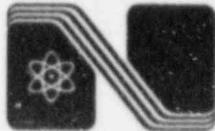


Nebraska Public Power District
Cooper Nuclear Station

**DEMONSTRATION OF COMPLIANCE
WITH
10 CFR 50, APPENDIX I
SUPPLEMENT**

June 27, 1977



Prepared by

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Nebraska Public Power District

Cooper Nuclear Station

Demonstration of Compliance
with
10CFR50, Appendix I
Supplement

June 27, 1977

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INTRODUCTION

This Supplement to the report "Demonstration of Compliance with 10CFR50, Appendix I, January 12, 1977" has been prepared to respond to the Nuclear Regulatory Commission (NRC) Request for Additional Information Appendix I, Cooper Nuclear Station Docket No. 50-298 Meteorology, dated March 24, 1977. There were nine items for which information was requested. The responses for each of the nine items contained in this document are intended to be fully responsive to the NRC's request. Each question is included from the March 24, 1977 letters, followed by the appropriate response.

QUESTION 1

Equation 10 on page 1-12 appears to overestimate D/Q values by a factor of 2 because of a miscalculation of arc length. The denominator of Equation 10 should be expressed as $0.3927 x (= \frac{2\pi x}{16})$ rather than $0.19635 x (= \frac{\pi x}{16})$. The D/Q values presented in Tables 3.15 - 3.18 would then be reduced by a factor of 2. Provide corrected Tables 3.15 -3.18.

RESPONSE 1

Equation 10 on Page 1-12 is in error, but Tables 3.15 - 3.18 are correct. The factor 2 was inadvertently dropped from the expression $\frac{2\pi x}{16}$ when the constant in the denominator of Equation 10 was derived for the text. Equation 10 should read:

$$Dep/Q = RDep \left[\frac{RCF}{0.3927x} \right] (10)$$

The computer algorithm used to derive the tables is correct and thus Tables 3.15 to 3.18 are correct.

QUESTION 2

Section 3.4 indicates that prior to March 1, 1974, wind speeds from the 96.93m level were extrapolated by means of a power law to represent wind speeds at the 10.67m level, and wind direction measurements at the 96.93m level were assumed to represent wind directions at the 10.67m level. These substitutions would then allow the development of joint frequency distributions of wind speed and wind direction at the 10.67m level by atmospheric stability (defined by the vertical temperature gradient between 10.67m and 96.93m) for the period 3/1/70 - 12/31/75 as indicated in Table 3.4-1. However, Section 3.5 indicates that joint frequency tables were provided only using measurements from the 96.93m level (Tables 5.1 - 5.104). Tables 5.105 - 5.200 provide joint frequency distributions of wind speed and wind direction measured at the 10.67m level by atmospheric stability for the period 3/1/74 - 12/31/75. Provide joint frequency distributions for wind speed and wind direction at the 10.67m level by atmospheric stability for the period 3/1/70 - 12/31/75.

RESPONSE 2

Joint frequency distributions for wind speed and direction at the 10.67-meter-level by stability classes are given in Tables 2.1 through 2.104 for the period March 1970

through December 1975. The tables were derived by extrapolating the wind speeds from the 96.93-meter-level for the period from March 1970 to February 1974 by the following equation:

$$WS_{LL} = WS_{UL} \left(\frac{HT_{LL}}{HT_{UL}} \right)^{P(S)}$$

WS_{LL} = wind speed at lower level (10.67 meters)

WS_{UL} = wind speed at upper level (96.93 meters)

HT_{LL} = height of the lower wind sensors (10.67 meters)

HT_{UL} = height of the upper wind sensors (96.93 meters)

$P(S)$ = power factor based on stability class S

S = stability classes A-G as defined in RG 1.23

Missing wind speeds at either level during the period March 1974 through December 1975, if at least one level was available, were also extrapolated using the $P(S)$'s derived as explained in Response 3.

TABLE 2.1

DATA PERIOD: MARCH 1, 1970 - OCTOBER 31, 1975		STABILITY CLASS: PASQUILL A		WIND SOURCE: ON-SITE		WIND SENSOR HEIGHT: 10.67 METERS		TABLE GENERATED: 05/14/77 11:17:21*		COOPERA NUCLEAR STATION		NEBRASKA PUBLIC POWER DISTRICT		DAYS AND MONTHS: JOB NO: 7635-001-07		
WIND SECTOR	0.0-1.5 1.5-2.0 2.0-2.5 2.5-3.0															
NNE	21	1.11	212	1.44	4.7	3	538	4.46								
NNW	25	1.24	2.51	1.71	5.6	3	637	6.37								
NE	28	1.77	2.46	1.71	2.8	1.9	2.18	2.18								
ENE	33	1.91	2.76	1.90	3.3	0.4	3.26	3.26								
E	36	1.17	1.7	1.17	-0.6	0.0	2.51	2.51								
ENE	48	1.74	2.50	1.4	-0.4	0.0	1.46	1.46								
E	51	1.88	2.88	1.59	0.7	0.0	1.73	1.73								
E	54	1.16	2.11	1.11	0.1	0.0	1.32	1.32								
E	57	1.63	3.8	1.2	0.6	0.0	1.33	1.33								
ESE	63	1.75	4.5	1.4	-0.4	0.0	1.58	1.58								
ESE	67	1.14	2.53	0.8	0.2	0.0	1.29	1.29								
ESE	70	1.63	6.2	2.6	0.1	0.0	1.45	1.45								
ESE	74	1.12	1.1	0.7	0.0	0.0	1.72	1.72								
SE	77	1.02	1.27	0.6	0.0	0.0	1.32	1.32								
SE	81	1.24	1.50	1.54	0.4	0.0	3.57	3.57								
SSSE	1.4	1.22	2.28	1.10	-0.1	0.0	6.66	6.66								
SSE	1.7	1.34	3.40	1.65	0.3	0.0	6.09	6.09								
SSE	2.0	1.25	6.3	3.6	0.2	0.0	7.21	7.21								
S	2.3	1.94	5.18	3.10	0.7	0.0	1.33	1.33								
S	2.7	1.21	3.77	3.67	0.0	0.0	1.33	1.33								
S	3.0	1.22	1.50	1.54	0.4	0.0	3.57	3.57								
S	3.4	1.13	2.87	1.65	0.3	0.0	6.09	6.09								
S	3.7	1.34	3.40	1.65	0.3	0.0	7.21	7.21								
S	4.0	1.25	6.3	3.6	0.2	0.0	1.33	1.33								
S	4.4	1.94	5.18	3.10	0.7	0.0	1.33	1.33								
S	4.7	1.21	3.77	3.67	0.0	0.0	1.33	1.33								
S	5.0	1.21	1.50	1.54	0.4	0.0	3.57	3.57								
S	5.4	1.17	2.87	1.65	0.3	0.0	6.09	6.09								
S	5.7	1.34	3.40	1.65	0.3	0.0	7.21	7.21								
S	6.0	1.25	6.3	3.6	0.2	0.0	1.33	1.33								
SSSW	6.4	1.21	2.08	1.68	0.3	0.0	7.21	7.21								
SSSW	6.7	1.21	2.46	1.44	1.4	0.4	6.02	6.02								
SSSW	7.0	1.17	1.45	1.45	2.6	1.0	7.1	7.1								
SSSW	7.4	1.95	1.68	2.03	1.93	1.7	5.92	5.92								
SSSW	7.7	1.13	1.99	2.40	1.10	1.0	7.01	7.01								
SSSW	8.0	1.21	2.37	4.4	2.0	0.4	1.29	1.29								
SSSW	8.4	1.94	1.35	5.5	1.7	0.2	3.93	3.93								
SSSW	8.7	1.21	1.60	1.65	2.0	0.2	3.93	3.93								
SSSW	9.0	1.21	1.30	1.12	1.2	0.4	3.71	3.71								
SSSW	9.4	1.17	1.17	1.17	1.4	0.2	3.24	3.24								
SSSW	9.7	1.43	1.39	1.62	1.7	0.2	3.54	3.54								
SSSW	10.0	1.26	1.26	1.11	1.7	0.0	4.07	4.07								
SSSW	10.4	1.68	1.58	1.06	4.5	0.5	4.61	4.61								
SSSW	10.7	1.81	2.26	1.26	5.3	0.6	4.82	4.82								
SSSW	11.0	1.35	2.35	2.23	1.0	0.1	5.69	5.69								
SSSW	11.4	7.2	2.53	1.34	5.9	1.1	5.66	5.66								
SSSW	11.7	0.85	3.00	3.53	1.54	1.1	5.71	5.71								
SSSW	12.0	1.16	2.73	3.99	2.29	1.1	5.73	5.73								
SSSW	12.4	1.15	3.73	3.99	2.28	1.0	5.73	5.73								
SSSW	12.7	1.36	2.25	3.60	4.73	2.70	4.38	4.38								
SSSW	13.0	1.59	1.59	3.68	4.15	1.50	4.36	4.36								
SSSW	13.4	1.88	4.36	4.15	1.37	1.29	4.14	4.14								
SSSW	13.7	1.35	2.80	4.92	1.62	1.37	4.54	4.54								
SSSW	14.0	1.38	1.80	4.91	1.30	1.30	4.54	4.54								
CALM	1.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
TOTAL	4.76	1.687	2840	2465	979	1.63	1.30	1.30								
	5.64	1.325	33.64	29.20	11.60	2.31	8.42	8.42								
	1.04	6.21	6.21	5.39	2.14	2.43	1.00	1.00								

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.2

DOI:10.1007/s10641-015-0341-1 | J. Clin. Anesth. 33 (2015) 1–10

STABILITY CLASS: PASQUILL H
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.67 METERS
TABLE GENERATION: 05/14/77
COOPED NORMAN STATION
NEBRASKA, NEBRASKA POWER DISTRICT
DAMES AND WOOD JOB NO: 7635-001-07

KEY XXX NUMBER OF OCCURRENCES

TABLE 2.3

DATA #100: WATCH 1, 1970 - DEPTHER 31, 1975										COPPED NUCLAR STATION SHAWNEE, NEBRASKA											
STABILITY CLASS: PASO DULCE		DATA SOURCE: ON-SITE		WIND SENSOR HEIGHT: 10.67 METERS		WIND SPEED CATEGORIES PER SECOND		MEAN SPEED		STABILITY CLASS: PASO DULCE		DATA SOURCE: ON-SITE		WIND SENSOR HEIGHT: 10.67 METERS		WIND SPEED CATEGORIES PER SECOND		MEAN SPEED			
WIND FLOW		SECTOR		0.0-1.5		1.5-3.0		3.0-5.0		5.0-7.5		7.5-10.0		10.0-12.5		12.5-15.0		15.0-17.5		17.5-20.0	
NNE	1	4.2		1.10	5.0	2.21	4.2	2.17	5.0	2.05	4.2	2.39	4.2	2.26	4.2	2.52	4.2	2.77	4.2	3.56	
NE	0.0	1.0		4.24	1.0	2.12	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NE	0.9	1.7		3.36	1.7	1.4	0.9	0.4	0.9	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NE	0.2	0.6		1.39	0.6	0.4	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ENE	0.8	2.3		0.08	2.3	0.2	0.8	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
E	0.0	0.7		0.05	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
E	0.2	1.30		0.77	1.30	0.7	0.2	0.7	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESE	0.0	0.7		0.04	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESE	0.4	1.5		0.21	1.5	0.2	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SE	0.15	0.58		0.05	0.58	0.05	0.05	0.05	0.05	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SE	0.4	2.6		0.61	2.6	0.33	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SE	1.5	1.01		2.36	1.01	1.28	1.5	1.28	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.1	0.5		0.13	0.5	0.07	0.1	0.07	0.04	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.4	3.0		0.66	3.0	0.45	0.6	0.45	0.45	0.45	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
S	0.15	1.16		2.56	1.16	1.06	1.5	1.06	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
S	0.1	0.7		0.14	0.7	0.05	0.1	0.05	0.04	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
S	0.1	1.9		1.32	1.9	0.97	1.4	0.97	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.1	0.7		0.23	0.7	0.13	0.2	0.13	0.07	0.07	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.4	2.8		0.68	2.8	0.48	0.7	0.48	0.47	0.47	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	1.5	1.08		2.63	1.08	1.35	1.5	1.35	1.35	1.35	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.1	0.6		0.13	0.6	0.05	0.1	0.05	0.03	0.03	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.2	2.0		0.53	2.0	0.33	0.5	0.33	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.8	7.7		2.05	7.7	1.67	2.0	1.67	1.67	1.67	1.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.0	0.4		0.12	0.4	0.05	0.1	0.05	0.05	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.4	1.5		0.22	1.5	0.12	0.2	0.12	0.08	0.08	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	1.5	1.08		0.65	1.08	0.35	0.6	0.35	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.1	0.6		0.12	0.6	0.05	0.1	0.05	0.03	0.03	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.2	2.0		0.63	2.0	0.33	0.6	0.33	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.1	0.4		0.05	0.4	0.03	0.05	0.03	0.02	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.9	7.6		2.07	7.6	1.67	2.0	1.67	1.67	1.67	1.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.35	1.01		1.05	1.01	0.59	0.5	0.59	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.02	0.6		0.06	0.6	0.03	0.06	0.03	0.02	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.21	1.8		1.36	1.8	0.44	1.3	0.44	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.02	0.70		1.39	1.70	1.70	1.7	1.70	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.5	5.0		1.24	5.0	1.10	1.2	1.10	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	1.9	1.94		4.80	1.94	5.15	4.8	5.15	4.6	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.1	0.6		1.27	0.6	1.29	1.2	1.29	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.1	6.3		1.64	6.3	1.43	1.6	1.43	1.34	1.34	1.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	3.1	2.64		7.13	2.64	5.34	7.1	5.34	5.78	5.78	5.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SSE	0.02	1.4		1.40	1.4	1.40	1.4	1.40	1.31	1.31	1.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
CALM	2.3	2.3		8.9	2.3	1.10	2.3	1.10	1.19	1.19	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
CALM	0.05	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	100	462		977	462	746	97	746	95	95	95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.87	17.90		37.85	17.90	28.14	21.14	28.14	21.63	21.63	21.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

KEY

XXX NUMBER OF OCCURRENCES

XXX PERCENT OCCURRENCES THIS CLASS

XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.4

JOINT WIND FREQUENCY DISTRIBUTION BY STATION AND CLASS		COOPED NUCL FAN STATION					
STABILITY CLASS: PASOUILLE D		NUCL FAN, NFRMAYA UNIVERSITY PUBLIC POWER DISTRICT DAMES AND 40INE JOB NO: 7635-001-07					
WIND SECTOR	0-0-1.5 1-3-3.0	SPEED CATEGORY	MEAN SECOND	MEAN 10-0 7-5-10-0	MEAN TOTAL SECOND	TOTAL SPEED	
NNE	.77	381	552	260	28	1.0	30.9
*50	2-49	3-61	1-70	*14	*07	8.55	5-84
*17	2-83	1-21	*57	*06	*02	2-86	3-22
NE	61	296	1-37	*58	0-00	1-95	
*40	1-93	2-20	*13	*04	0-00	1-66	
*13	1-65	1-74	*34	*02	0-00	1-48	2-87
ENE	60	268	1-84	*07	*01	0-00	3-24
*39	1-75	1-20	*22	*00	0-00	1-20	
*13	1-59	1-40	*30	*00	0-00	1-00	2-97
E	63	266	2-39	*30	*01	0-00	
*41	1-74	1-56	*20	*01	*01	3-92	
*14	1-58	2-52	*07	*00	*00	1-31	
ESE	64	281	2-82	1-15	1-1	0-01	7-62
*42	1-87	1-86	*75	*07	*01	4-98	3-45
*14	1-63	1-62	*52	*02	*00	1-67	
SE	79	345	2-20	2-49	*55	*05	1-93
*52	2-73	3-40	1-87	*36	*03	0-43	4-06
SSE	67	375	1-14	1-63	*12	*01	2-82
*44	2-76	1-528	1-27	*14	*00	1-240	3-98
*15	2-13	3-45	1-76	*27	*04	6-10	
S	58	352	1-51	*09	*01	2-71	
*38	2-39	6-98	3-49	*00	0-16	10-53	4-26
*13	2-77	1-53	2-28	*52	*10	4-015	
SSW	41	223	1-59	1-76	*17	*03	3-19
*27	1-27	1-52	1-63	*17	*03	1-01	4-61
*09	1-46	2-48	2-37	*27	*02	2-13	
SW	42	1-49	2-83	1-79	*17	*02	2-38
*27	1-95	2-75	1-53	*18	*03	5-79	4-14
*09	1-32	1-47	1-00	*18	*03	3-41	
*52	1-54	1-49	1-33	*06	*01	1-31	
*34	1-01	1-99	*30	*08	*04	4-00	3-18
*11	1-34	1-73	*29	*05	*03	2-61	
*09	1-19	1-14	1-46	*07	*01	1-07	
*45	1-78	1-77	*29	*09	*00	2-34	
*15	1-26	1-26	1-10	*03	0-00	1-80	
WNW	40	1-16	1-37	1-16	*03	0-00	4-25
*09	1-25	1-90	1-73	*10	*03	2-78	4-02
NW	74	1-97	3-57	2-24	*03	*01	9-3
*74	1-29	3-57	2-78	*67	*01	9-74	4-33
*48	1-29	2-33	1-82	*14	*01	6-37	
*16	2-43	1-78	1-61	*15	*00	2-13	
NNW	64	283	2-55	4-02	*45	*23	4-53
*42	1-85	3-61	2-63	*62	*15	9-28	
*14	1-62	1-21	1-88	*21	*03	3-10	
N	84	4-33	1-799	3-92	*73	*25	1-806
*55	2-83	1-22	2-56	*48	*16	1-80	4-16
CALM	18	*95	1-75	*06	*05	1-95	
1-96	162					1-62	CALM
TOTAL	1157	4191	6063	3178	602	110	
7-56	27-39	39-62	20-72	3-93	15-30	150	
2-53	9-16	13-25	6-45	1-32	2-4	33-45	

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.5

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
DATA PERIOD: MARCH 1, 1970 - DECEMBER 31, 1975		STABILITY CLASS: ON-SITE		COOPER NURFAR STATION		REFUGEE NURFAR STATION		WIND SPEEDS AND DOWNSLOPE DISTANCE	
DATA SOURCE: PASOUILE E		WIND SPEEDS		REFUGEE NURFAR STATION		REFUGEE NURFAR STATION		WIND POWER DISTANCE	
WIND		WIND SPEEDS		REFUGEE NURFAR STATION		REFUGEE NURFAR STATION		WIND POWER DISTANCE	
SECTOR	0-0.1-5	1-5-3-0	3-0-5-0	5-0-7-5	7-5-10-0	5-0-7-5	7-5-10-0	5-0-7-5	7-5-10-0
NNE	83	225	115	5	1	0	0	0	0
NE	*78	209	1*02	*04	*01	0*00	0*00	0*00	0*00
NE	*69	212	*25	*01	*00	0*00	0*00	0*00	0*00
NE	*79	1*89	20	*00	0*00	0*00	0*00	0*00	0*00
NE	*46	1*46	*05	*00	0*00	0*00	0*00	0*00	0*00
NE	*76	1*69	*31	*00	0*00	0*00	0*00	0*00	0*00
NE	*68	1*51	*28	*00	0*00	0*00	0*00	0*00	0*00
E	*77	1*37	*07	0*00	0*00	0*00	0*00	0*00	0*00
E	*65	1*66	*29	*02	0*00	0*00	0*00	0*00	0*00
E	*16	2*41	*07	*00	0*00	0*00	0*00	0*00	0*00
ESE	*81	2*59	1*42	*16	*02	*00	*00	*00	*00
ESE	*72	2*31	1*26	*14	*02	*00	*00	*00	*00
SE	*18	2*31	*03	*03	*00	0*00	0*00	0*00	0*00
SE	*68	4*15	*348	*53	*07	*00	*00	*00	*00
SE	*78	3*70	3*10	*12	*06	0*00	0*00	0*00	0*00
SSE	*19	5*51	5*43	*76	*02	0*00	0*00	0*00	0*00
SSE	*16	5*52	5*43	*76	*01	0*00	0*00	0*00	0*00
SSE	*03	4*92	4*64	*68	*00	0*00	0*00	0*00	0*00
S	*25	1*21	1*19	*17	*02	0*00	0*00	0*00	0*00
S	1*43	1*76	1*72	*93	*24	*02	*02	*02	*02
S	1*24	6*77	6*74	*83	*21	*02	*02	*02	*02
SSW	1*32	1*66	1*65	*79	*67	*00	*00	*00	*00
SSW	*04	5*51	6*75	*67	*5	0*00	0*00	0*00	0*00
SSW	*93	4*55	6*01	*66	*64	0*00	0*00	0*00	0*00
SW	*23	1*12	1*48	*21	*04	0*00	0*00	0*00	0*00
SW	*67	2*98	3*41	*46	*02	0*00	0*00	0*00	0*00
SW	*60	2*65	3*66	*41	*02	0*00	0*00	0*00	0*00
SW	*15	1*65	1*50	*10	*00	0*00	0*00	0*00	0*00
SW	*60	1*65	1*20	*10	*01	0*00	0*00	0*00	0*00
SW	*71	1*69	1*07	*09	*01	0*00	0*00	0*00	0*00
SW	*17	1*42	*26	*02	*00	0*00	0*00	0*00	0*00
SW	*96	1*35	*94	*12	*01	0*00	0*00	0*00	0*00
SW	*87	1*20	*04	*10	*01	0*00	0*00	0*00	0*00
SW	*21	1*30	*21	*02	*00	0*00	0*00	0*00	0*00
SW	*54	1*65	1*50	*10	*00	0*00	0*00	0*00	0*00
SW	*48	1*38	1*24	*07	*00	0*00	0*00	0*00	0*00
SW	*12	2*34	2*37	*62	0*00	0*00	0*00	0*00	0*00
SW	*71	2*29	2*58	*11	*07	0*00	0*00	0*00	0*00
SW	*63	2*04	2*30	*10	*06	0*00	0*00	0*00	0*00
SW	*16	3*50	3*56	*10	*02	0*00	0*00	0*00	0*00
SW	*93	3*25	2*43	*16	*02	0*00	0*00	0*00	0*00
SW	*83	2*69	2*46	*16	*02	0*00	0*00	0*00	0*00
N	1*20	2*71	2*73	*04	*02	0*00	0*00	0*00	0*00
N	1*44	2*72	2*74	*09	*03	0*00	0*00	0*00	0*00
CALM	1*52	*68	*38	*02	*01	0*00	0*00	0*00	0*00
CALM	1*35	1*33	1*33	0*00	0*00	0*00	0*00	0*00	0*00
TOTAL	14.54	4933	4135	457	66	4	11227	2443	
	3.57	43.95	36.83	4.07	*04	*04	100.00		
		10.78	9.04	1.00	*14	*01			

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.6

JOINT POINT FREQUENCY DISTRIBUTION STATIONARY CLASSES

STABILITY CLASS: DASGULL F
WIND SOURCE: ON-SITE
WIND SPEED: 19.67 METERS
TABLE GENERATED: 05/14/97 11:17:21
COPPIA NUCLEAR STATION
WE MAMM-10 BIAWAIC
WE HAVE A PUBLIC POWER DISTRICT
NAME: S AND M WIDE NO: 7635-001-07

WIND SECTION	NAME	SPEED 0.0-1.5, 1.5-3.0, 3.0-5.0, 5.0-7.5			CATEGORICAL METERS PER SECOND			>10.0	TOTAL	TOTAL SPEED
		0-0.1-5	1-5-3.0	3-0.5-0.0	5-0-7.5	7.5-10.0	>10.0			
WIND SECTION	NAME	1-6.0	1-5.7	4	0.0	0.0	0	0	1.23	1.58
		*1-4	1-3.0	*0.9	0.0	0.0	0	0	*2.77	
WIND SECTION	NAME	1-3.6	1-4.5	*0.1	0.0	0.0	0	0	0	1.62
		*0.9	1-1.0	*0.2	-0.1	0.0	0	0	0	0.92
WIND SECTION	NAME	2-7	2-7	*0.0	-0.0	0.0	0	0	0	1.14
		*0.1	*0.1	*0.0	-0.1	0.0	0	0	0	0.19
WIND SECTION	NAME	*0.6	*0.6	*0.0	*0.2	*0.0	0	0	1.39	1.41
		*0.6	*0.6	*0.1	*0.0	*0.0	0	0	0	1.33
WIND SECTION	NAME	*0.0	*0.2	*0.4	*0.0	*0.0	0	0	0	1.52
		*0.0	*0.2	*0.4	*0.0	*0.0	0	0	0	1.77
WIND SECTION	NAME	*0.9	*0.4	*0.9	0.0	0.0	0	0	1.74	
		*0.7	*0.6	*0.1	0.0	0.0	0	0	1.17	
WIND SECTION	NAME	1-0.6	1-1.5	*1.1	*2	0	0	0	1.14	1.75
		*1.0	*1.3	*0.3	*0.5	0.0	0	0	2.25	
WIND SECTION	NAME	*1.7	*1.4	*0.0	*0.9	*0.0	0	0	2.10	
		1-1.9	3-0.2	*0.0	*0.2	*0.0	0	0	0	2.02
WIND SECTION	NAME	*1-2	*1.6	*0.7	*0.0	*0.0	0	0	0	5.91
		1-1.4	1-1.4	*0.7	*0.3	0.0	0	0	0	4.57
WIND SECTION	NAME	1-0.7	1-0.8	1-1.9	*0.7	*0.7	0	0	0	2.20
		1-1.6	1-0.9	*1.2	*0.9	*0.1	0	0	0	10.15
WIND SECTION	NAME	1-1.3	1-0.9	*1.7	*0.3	*0.3	0	0	0	9.91
		3-0.0	10-1.0	1-0.6	*0.7	*0.2	0	0	0	6.77
WIND SECTION	NAME	*2.9	1-0.3	*1.6	*0.1	*0.2	0	0	0	2.11
		*0.9	1-0.3	*1.6	*0.1	*0.0	0	0	0	2.26
WIND SECTION	NAME	*0.9	1-0.2	*0.0	*0.2	*0.0	0	0	0	2.10
		*0.9	1-0.2	*0.0	*0.2	*0.0	0	0	0	2.02
WIND SECTION	NAME	2-0.9	1-0.8	1-0.7	*0.4	*0.0	0	0	0	2.17
		*1-1.9	1-0.9	*1.6	*0.0	*0.0	0	0	0	4.50
WIND SECTION	NAME	1-0.0	1-0.3	1-0.3	0.0	0	0	0	0	10.15
		1-0.7	1-1.3	*1.6	*0.0	*0.1	0	0	0	9.91
WIND SECTION	NAME	1-1.7	1-1.7	*1.6	*0.0	*0.1	0	0	0	6.77
		1-1.7	1-1.7	*1.6	*0.0	*0.2	0	0	0	5.02
WIND SECTION	NAME	1-0.7	1-0.7	1-0.7	*0.0	*0.0	0	0	0	2.31
		1-0.7	1-0.7	1-0.7	*0.0	*0.0	0	0	0	2.10
WIND SECTION	NAME	1-0.7	1-0.7	1-0.7	*0.0	*0.0	0	0	0	2.10
		1-0.7	1-0.7	1-0.7	*0.0	*0.0	0	0	0	2.02
WIND SECTION	NAME	1-1.7	1-1.7	1-1.7	*0.2	*0.1	0	0	0	2.17
		1-1.7	1-1.7	1-1.7	*0.2	*0.1	0	0	0	2.02
WIND SECTION	NAME	1-0.7	1-0.7	1-0.7	*0.0	*0.0	0	0	0	2.10
		1-0.7	1-0.7	1-0.7	*0.0	*0.0	0	0	0	2.02
WIND SECTION	NAME	1-1.2	1-1.2	1-1.2	*0.9	*0.0	0	0	0	2.14
		1-0.9	1-1.1	1-1.1	*0.9	*0.1	0	0	0	2.14
WIND SECTION	NAME	1-1.5	2-5.0	1-7.4	*0.2	0.0	0	0	0	4.46
		1-1.5	2-5.0	1-7.4	*0.2	0.0	0	0	0	4.83
WIND SECTION	NAME	1-0.3	1-1.1	1-1.1	*0.7	*0.0	0	0	0	1.94
		2-1.0	2-1.0	2-1.0	*0.5	*0.0	0	0	0	2.45
WIND SECTION	NAME	1-1.2	1-1.2	1-1.2	*0.5	*0.0	0	0	0	2.14
		1-1.2	1-1.2	1-1.2	*0.5	*0.0	0	0	0	2.02
WIND SECTION	NAME	2-0.8	2-0.1	2-0.9	*1.5	*0.2	0	0	0	2.32
		2-0.8	2-0.1	2-0.9	*1.5	*0.2	0	0	0	2.32
WIND SECTION	NAME	2-0.8	2-0.8	2-0.8	*1.9	*0.3	0	0	0	2.51
		2-0.8	2-0.8	2-0.8	*1.9	*0.3	0	0	0	2.48
WIND SECTION	NAME	2-0.9	2-0.9	2-0.9	*1.9	*0.0	0	0	0	2.89
		2-0.9	2-0.9	2-0.9	*1.9	*0.0	0	0	0	2.89
WIND SECTION	NAME	1-2.6	1-2.6	1-2.6	*0.9	*0.0	0	0	0	2.28
		1-2.6	1-2.6	1-2.6	*0.9	*0.0	0	0	0	2.28
WIND SECTION	NAME	2-7.1	2-6.6	2-6.9	*1.5	*0.2	0	0	0	1.98
		2-7.1	2-6.6	2-6.9	*1.5	*0.2	0	0	0	1.98
WIND SECTION	NAME	2-6.6	2-5.7	2-5.7	*1.4	*0.3	0	0	0	1.98
		2-6.6	2-5.7	2-5.7	*1.4	*0.3	0	0	0	1.98

THE NATURE OF OCCUPATIONAL STRESS

TABLE 2.7

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		COUPLED SURFACE STATION									
DATA PERIOD: MARCH 1, 1970 - DECEMBER 31, 1975		NEAR-A-PUBLIC POWER DISTRICT									
STABILITY CLASS: PEGUILL G		DATES AND SOURCE: T63S-001-07									
DATA SOURCE: ON-SITE		NEAR-A-PUBLIC POWER DISTRICT									
WIND SPEED: 0-1.5		DATES AND SOURCE: T63S-001-07									
WIND SECTION	WIND SPEED CATEGORIES	0-0.25	0.25-0.5	0.5-0.75	0.75-1.0	1.0-1.25	1.25-1.5	1.5-1.75	1.75-2.0	2.0-2.25	2.25-2.5
NNE	0.7	1.3	1	0	0	0	0	0	0	0	0.1
NNE	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.30
NNE	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*1.3
NNE	3.5	0.9	1	0	0	0	0	0	0	0	2.5
NNE	4.0	0.9	0.5	0	0	0	0	0	0	0	1.46
NNE	4.5	0.2	0.0	0	0	0	0	0	0	0	*3.5
NNE	5.0	1.6	1.4	0	0	0	0	0	0	0	*0.5
NNE	5.5	0.6	0.0	0	0	0	0	0	0	0	1.45
NNE	6.0	0.3	0.0	0	0	0	0	0	0	0	1.62
NNE	6.5	0.3	0.0	0	0	0	0	0	0	0	*0.7
E	1.40	2.6	1.9	0.5	0.0	0	0	0	0	0	*1.46
E	1.40	2.6	1.9	0.5	0.0	0	0	0	0	0	2.22
ESE	0.0	0.3	0.0	0	0	0	0	0	0	0	*0.4
ESE	2.41	1.7	1.0	0	0	0	0	0	0	0	1.38
ESE	2.72	0.2	0.0	0	0	0	0	0	0	0	3.13
SE	0.4	0.4	0.0	0	0	0	0	0	0	0	*0.0
SE	4.3	4.6	4.6	0.1	0	0	0	0	0	0	1.58
SE	2.32	2.49	2.49	0.5	0	0	0	0	0	0	*0.6
SE	2.50	1.0	0.0	0	0	0	0	0	0	0	1.20
SSE	4.5	6.2	6.2	0.8	0	0	0	0	0	0	1.16
SSE	2.43	3.35	3.35	4.3	0	0	0	0	0	0	1.79
SSE	3.10	1.04	1.04	0.2	0	0	0	0	0	0	6.27
SSE	3.63	5.62	5.62	1.1	0	0	0	0	0	0	*1.3
SSE	3.40	5.23	5.23	1.0	0	0	0	0	0	0	1.70
SSE	3.40	1.37	1.37	1.7	0	0	0	0	0	0	*1.77
SSE	2.70	7.40	7.40	9.2	0	0	0	0	0	0	1.77
SE	1.11	2.39	2.39	0.4	0	0	0	0	0	0	2.75
SE	3.64	2.13	2.13	2.1	0	0	0	0	0	0	1.77
SE	3.66	6.10	6.10	1.6	0	0	0	0	0	0	1.77
SE	3.14	5.62	5.62	1.2	0	0	0	0	0	0	1.77
SE	3.14	1.42	1.42	0.7	0	0	0	0	0	0	1.77
SE	3.66	4.00	4.00	4.9	0	0	0	0	0	0	1.97
SE	3.67	1.6	1.6	0.2	0	0	0	0	0	0	1.97
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.97
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.97
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	2.06
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.74
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7	6.7	0.2	0	0	0	0	0	0	1.69
SE	3.67	3.62	3.62	0.5	0	0	0	0	0	0	1.69
SE	3.14	1.15	1.15	0.0	0	0	0	0	0	0	1.69
SE	3.14	2.75	2.75	0.7	0	0	0	0	0	0	1.69
SE	3.62	7.4	7.4	9	0	0	0	0	0	0	1.69
SE	4.43	4.0	4.0	4.9	0	0	0	0	0	0	1.69
SE	3.18	1.6	1.6	0.2	0	0	0	0	0	0	1.69
SE	3.67	6.7									

TABLE 2.8

JOINT WIND FREQUENCY DISTRIBUTION BY STATION TTT CLASS
 DATA PERIOD: MARCH 1, 1970 - DECEMBER 31, 1975

		CLOUDY WIND FREQ. STATION							
		WIND SPEED CATEGORIES PER YEARS PER SEC(00)							
		0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEC'D
WIND SECTOR	NAME	298	859	1040	514	117	17	2642	3.72
	NE	*65	1.87	2.27	1.12	*0.6	*0.4	6.21	
	E	219	601	349	53	11	1	1519	2.46
	SE	*48	1.31	1.76	1.12	*0.2	*0.0	3.32	
	SSE	*56	699	585	41	*2	0	1137	2.58
	S	295	1130	1128	639	*0.0	0.0	2.49	
	SSW	*64	2.47	2.47	*0.6	*0.0	*0.0	2.68	
	SW	324	1419	1549	601	95	6	3.70	
	S	*71	3.10	3.39	1.31	*21	*0.1	8.73	
	SW	*26	1839	2019	934	253	*0	5511	3.76
	WSW	309	1423	1475	216	250	*0.0	12.05	
	W	*68	3.13	3.23	1.78	*55	*15	3.94	
	WNW	273	1011	1024	483	171	*29	2991	3.77
	WW	*60	2.21	2.24	1.16	*37	*0.6	6.54	
	WNW	316	713	688	129	31	6	1078	2.90
	W	*69	3.56	3.07	1.27	*0.7	*0.1	3.67	
	W	339	590	395	132	39	3	1.94	2.88
	WNW	*74	1.29	*87	1.79	0.7	*0.1	3.27	
	WNW	241	518	560	273	74	16	1682	3.59
	WNW	-53	1.13	1.22	*60	*16	*0.3	3.60	
	WNW	292	717	984	668	254	61	2976	4.28
	WNW	*64	1.57	2.15	1.46	*56	*13	6.51	
	WNW	345	991	1295	1045	400	64	4144	4.41
	WNW	*75	2.17	2.84	2.28	*87	*14	9.06	
	N	494	1153	1673	1060	268	63	4731	4.08
	CALM	1.55	1.08	2.52	3.66	2.32	*14	10.34	
	TOTAL	5562	14917	17301	7464	2094	383	45746	3.62
		12.20	32.61	31.85	16.32	4.59	**	100.00	

KEY
 *** NUMBER OF OCCURRENCES
 *** PERCENT OCCURRENCES

TABLE 2.10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: JANUARY 1971 - 1975

STABILITY CLASS: PASQUILL, R

DATA SOURCE: ON-SITE

WIND SPEED HEIGHT: 10.67 METERS

WIND SPEED GENERATION: 054477-1140-02*

CLOUDY SKYLINE STATION

NO HAZE, NO HUMIDITY

PUBLIC POWER DISTRICT

DAMES AND GORDON

JOB NO:

7635021-07

WIND SECTOR 0-0-1-10 SPEED CATEGORIES (METERS PER

1-5-3-0 3-0-5-0 5-0-7-5 7-5-10-0

TOTAL MEAN

SPEC'D

NNE 0-0 3 12 11 3 0 0 29 4.80

0-0 2-14 8-17 7-86 7-14 0-0 26-71

0-0 0-9 3-5 4-1 4-1 0-0 0-0 0-85

NE 0-0 2-16 7-1 0-0 0-0 0-0 0-0 0-0

0-0 0-9 1-2 0-3 0-0 0-0 0-0 0-0

ENE 0-0 2-14 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-9 0-0 0-0 0-0 0-0 0-0 0-0

E 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

ESE 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

SE 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

SSE 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-1 0-0 0-0 0-0 0-0

S 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-3 0-0 0-0 0-0 0-0

SSW 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

SW 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-1 0-0 0-0 0-0 0-0

WSW 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-2 0-0 0-0 0-0 0-0

W 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-3 0-0 0-0 0-0 0-0

WNW 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-2 0-0 0-0 0-0 0-0

NW 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-3 0-0 0-0 0-0 0-0

NNW 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-2 0-0 0-0 0-0 0-0

N 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-2 0-0 0-0 0-0 0-0

CALM 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0

0-0 0-0 0-1 0-3 0-0 0-0 0-0 0-0

TOTAL 1-8-3 15-72 36-51 37-53 4-72 0-0 10-00 4-19

-0-6 2-64 1-49 1-55 1-35 0-0 4-10

1-8-2 15-71 36-43 37-50 4-72 0-0 10-00 4-19

1-8-3 15-71 36-43 37-50 4-72 0-0 10-00 4-19

1-8-2 15-71 36-43 37-50 4-72 0-0 10-00 4-19

1-8-3 15-71 36-43 37-50 4-72 0-0 10-00 4-19

1-8-2 15-71 36-43 37-50 4-72 0-0 10-00 4-19

1-8-3 15-71 36-43 37-50 4-72 0-0 10-00 4-19

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2:11

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

STABILITY CLASS: PASQUALE C	JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS						TOTAL	
	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
SECTION								
NNE								
0.00	0.00	5.71	10.19	3	0	0	32	
0.00	0.00	*29	*56	*04	*00	*00	3.65	
NE								
0.00	0.00	2.99	5.18	0.00	0.00	0.00	3.46	
0.00	0.00	*27	*26	*00	*00	*00	3.46	
ENE								
0.00	0.00	3.14	0.00	0.30	0.00	0.00	2.14	
0.00	0.00	*05	*02	*00	*00	*00	2.14	
E								
0.00	0.00	1.14	1.14	0.00	0.00	0.00	2.74	
0.00	0.00	*06	*06	*00	*00	*00	2.74	
ESE								
0.00	0.00	1.71	1.4	*30	*00	*00	2.87	
0.00	0.00	*09	*06	*00	*00	*00	2.87	
SE								
0.00	0.00	1.71	1.73	0.00	0.00	0.00	2.86	
0.00	0.00	*03	*02	*00	*00	*00	2.86	
SSE								
0.00	0.00	0.00	*7	*00	*00	*00	3.99	
0.00	0.00	0.00	*03	*00	*00	*00	3.99	
S								
0.00	0.00	*57	2.29	2.4	0.00	0.00	3.50	
0.03	0.03	*12	*12	*12	*00	*00	3.50	
SSW								
0.00	0.00	1.14	0.00	1.71	0.00	0.00	3.50	
0.03	0.03	*06	*00	*04	*00	*00	3.50	
SW								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WSW								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
W								
0.00	0.00	1.14	0.00	0.00	0.00	0.00	1.14	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	
WNW								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NW								
0.00	0.00	1.71	0.9	*57	0.00	0.00	4.28	
0.00	0.00	0.00	*03	*00	*00	*00	4.28	
NNW								
0.00	0.00	1.14	0.00	0.00	0.00	0.00	2.38	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	
N								
0.00	0.00	1.71	0.9	*57	0.00	0.00	5.16	
0.00	0.00	0.00	*03	*00	*00	*00	5.16	
CALM								
0.00	0.00	2.06	6.86	8.17	*206	*27	5.30	
0.00	0.00	*15	*35	*44	*15	*03	5.30	
TOTAL								
1.71	26.46	*0.71	37	*0.71	0.00	0.00	4.41	
0.09	21.35	2.08	21.08	*50	*0.3	100.00	5.13	

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.13

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
DATA PERIOD: JANUARY 1953		STABILITY CLASS: PASOQUIT E		COOP-Q NUC FAW STATION		NARADA, SANTA BARBARA		STATION	
DATA SOURCE: ON SITE		WIND SPEED: 10.67 METERS		WIND SPEED: 10.67 METERS		WIND SPEED: 10.67 METERS		WIND SPEED: 10.67 METERS	
WIND SPEED GENERATED: 05/14/77, 11:40:02*		WIND SPEED: 10.67 METERS		WIND SPEED: 10.67 METERS		WIND SPEED: 10.67 METERS		WIND SPEED: 10.67 METERS	
WIND SECTOR	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	7.5-10.0	7.5-10.0	7.5-10.0	TOTAL
NNE	0	0	0	0	0	0	0	0	0
NE	0.7	0.9	1.2	1.5	0.0	0.00	0.00	0.00	2.02
NE	1.9	1.9	1.0	0.0	0.0	0.00	0.00	0.00	5.31
E	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	1.01
E	1.26	1.26	0.00	0.00	0.00	0.00	0.00	0.00	2.02
ESE	1.3	1.3	0.0	0.0	0.00	0.00	0.00	0.00	2.3
ESE	1.34	1.34	0.00	0.00	0.00	0.00	0.00	0.00	1.60
E	0.9	0.9	0.00	0.00	0.00	0.00	0.00	0.00	1.67
E	1.1	1.1	0.0	0.0	0.00	0.00	0.00	0.00	2.29
E	0.3	1.2	1.2	2.2	0.00	0.00	0.00	0.00	7.9
ESE	0.5	0.6	0.6	0.6	0.00	0.00	0.00	0.00	2.7
ESE	0.6	0.7	1.7	1.4	0.00	0.00	0.00	0.00	2.79
E	1.5	1.6	1.6	1.4	0.00	0.00	0.00	0.00	7.91
SE	1.7	1.7	1.7	1.6	0.00	0.00	0.00	0.00	2.73
SE	2.2	1.91	1.91	1.34	0.00	0.00	0.00	0.00	2.19
SSE	0.6	0.6	0.9	0.00	0.00	0.00	0.00	0.00	2.47
SSE	1.0	1.26	1.26	0.8	0.00	0.00	0.00	0.00	0.64
SSE	1.12	3.15	3.15	9.0	0.00	0.00	0.00	0.00	2.28
SSE	2.9	0.62	0.62	2.3	0.00	0.00	0.00	0.00	1.17
S	0.8	0.41	0.41	0.56	0.00	0.00	0.00	0.00	1.35
S	0.9	6.61	6.30	0.00	0.00	0.00	0.00	0.00	3.03
SSE	2.3	1.20	1.20	1.64	0.00	0.00	0.00	0.00	1.05
SSE	1.32	3.94	3.94	9.85	0.00	0.00	0.00	0.00	3.31
SSE	1.35	1.03	1.03	2.49	0.00	0.00	0.00	0.00	1.54
SSE	1.11	3.33	3.33	8.3	0.00	0.00	0.00	0.00	4.01
SSE	1.24	3.71	3.71	9.34	0.00	0.00	0.00	0.00	3.31
SSE	1.19	0.97	0.97	2.45	0.00	0.00	0.00	0.00	1.74
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.50
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3	2.3	3.0	0.00	0.00	0.00	0.00	3.07
SSE	1.19	2.25	2.25	1.2	0.00	0.00	0.00	0.00	1.58
SSE	2.14	3.94	2.81	0.00	0.00	0.00	0.00	0.00	2.79
SSE	1.56	1.03	1.03	2.73	0.00	0.00	0.00	0.00	1.37
SSE	1.16	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.33
SSE	1.60	2.92	2.92	1.6	0.00	0.00	0.00	0.00	2.32
SSE	1.47	2.76	2.76	1.47	0.00	0.00	0.00	0.00	1.70
SSE	1.5	2.3</							

TABLE 2.14

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
DATA PERIOD: JANUARY 1971-1975		COOPED NEAR FAR STATION							
STABILITY CLASS: PASQUILL F		NEBRASKA NE-DAKOTA NEBRASKA PUBLIC POWER DISTRICT DAMES AND MODINE JUN 1975-01-07							
WIND SECTOR	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0-12.5	12.5-15.0	15.0-17.5	17.5-20.0
NNE	3	4	0	0	0	0	0	0	4
NE	4.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0	4.9
NEE	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	4.9
EE	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6
E	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
SE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
SSE	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	1.4	1.7	4	0.0	0.0	0.0	0.0	0.0	1.4
SSE	2.4	1.7	4	0.0	0.0	0.0	0.0	0.0	2.4
SSE	0.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0	2.4
SSE	7.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	7.3
S	0.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9
S	1.90	6.17	5.4	0.0	0.0	0.0	0.0	0.0	1.90
SSE	2.3	7.3	1.2	0.0	0.0	0.0	0.0	0.0	7.3
SSE	1.8	4.9	1.1	0.0	0.0	0.0	0.0	0.0	4.9
SSE	1.90	11.94	2.64	0.0	0.0	0.0	0.0	0.0	11.94
SSE	2.3	11.44	3.2	0.0	0.0	0.0	0.0	0.0	11.44
SSE	1.0	6.66	1.2	0.0	0.0	0.0	0.0	0.0	6.66
SSE	2.44	16.14	2.93	0.0	0.0	0.0	0.0	0.0	16.14
SSE	2.9	1.93	3.5	0.0	0.0	0.0	0.0	0.0	1.93
SSE	1.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	7.6
SSE	3.18	8.80	0.0	0.0	0.0	0.0	0.0	0.0	8.80
SSE	2.3	1.07	0.0	0.0	0.0	0.0	0.0	0.0	1.07
SSE	3.17	7.5	0.4	0.0	0.0	0.0	0.0	0.0	7.5
SSE	4.9	1.1	9.8	0.0	0.0	0.0	0.0	0.0	9.8
SSE	1.71	1.73	1.2	0.0	0.0	0.0	0.0	0.0	1.73
SSE	1.22	4.65	1.9	0.0	0.0	0.0	0.0	0.0	4.65
SSE	1.1	1.0	2.1	0.0	0.0	0.0	0.0	0.0	2.1
SSE	4.9	1.1	4.7	0.0	0.0	0.0	0.0	0.0	4.7
SSE	2.69	2.69	1.47	0.0	0.0	0.0	0.0	0.0	1.47
SSE	1.2	3.2	1.8	0.0	0.0	0.0	0.0	0.0	1.8
SSE	1.7	1.8	1	0.0	0.0	0.0	0.0	0.0	1
SSE	1.71	1.96	2.4	0.0	0.0	0.0	0.0	0.0	2.4
SSE	1.21	1.23	0.3	0.0	0.0	0.0	0.0	0.0	0.3
SSE	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
CALM	2.44	2.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	23.72	64.30	11.49	0.00	0.00	0.00	0.00	0.00	23.72
TOTAL	23.72	67.70	11.44	0.00	0.00	0.00	0.00	0.00	23.72

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.15

JOINT WIND ENERGY STATION: JANUARY 1971 - 1975
 DATA PERIOD: JANUARY 1971 - 1975
 STABILITY CLASS: POSSIBLY 6
 DATA SOURCE: ON-SITE
 WIND SOURCE HEIGHT: 10.67 METERS
 TABLE GENERATOR: 0514577.
 WIND SPEED: CATEGORIFIED SECONDS PER SECOND
 WIND ENERGY STATION
 NE-MARSH, NEBRASKA
 NE-MARSH, PUBLIC POWER DISTRICT
 NAMES AND MODELS: JOHN NO: 7635-001-07
 MEAN

TABLE 2.16

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JANUARY 1971 - 1975

ALL CLASSES		CODED WIND FLOW STATION	
DATA SOURCE:	09-51E	WEATHER STATION	WEATHER STATION
WIND SPEED AND DIRECTION	10.67 METERS	WEATHER STATION	WEATHER STATION
WEATHER STATION NO:	09-51E	WEATHER STATION NO:	WEATHER STATION NO:
WEATHER STATION NO:	09-51E	WEATHER STATION NO:	WEATHER STATION NO:
WIND SECTION	0.0-1.5	SPEED	CODED WIND FLOW STATION
NNE	17	1.5-3.0	0.0-1.5
NNE	17	3.0-5.0	1.5-3.0
NNE	17	5.0-7.5	3.0-5.0
NNE	17	7.5-10.0	5.0-7.5
NNE	17	10.0-12.5	7.5-10.0
NNE	17	12.5-15.0	10.0-12.5
NNE	17	15.0-17.5	12.5-15.0
NNE	17	17.5-20.0	15.0-17.5
NNE	17	20.0-22.5	17.5-20.0
NNE	17	22.5-25.0	20.0-22.5
NNE	17	25.0-27.5	22.5-25.0
NNE	17	27.5-30.0	25.0-27.5
NNE	17	30.0-32.5	27.5-30.0
NNE	17	32.5-35.0	30.0-32.5
NNE	17	35.0-37.5	32.5-35.0
NNE	17	37.5-40.0	35.0-37.5
NNE	17	40.0-42.5	37.5-40.0
NNE	17	42.5-45.0	40.0-42.5
NNE	17	45.0-47.5	42.5-45.0
NNE	17	47.5-50.0	45.0-47.5
NNE	17	50.0-52.5	47.5-50.0
NNE	17	52.5-55.0	50.0-52.5
NNE	17	55.0-57.5	52.5-55.0
NNE	17	57.5-60.0	55.0-57.5
NNE	17	60.0-62.5	57.5-60.0
NNE	17	62.5-65.0	60.0-62.5
NNE	17	65.0-67.5	62.5-65.0
NNE	17	67.5-70.0	65.0-67.5
NNE	17	70.0-72.5	67.5-70.0
NNE	17	72.5-75.0	70.0-72.5
NNE	17	75.0-77.5	72.5-75.0
NNE	17	77.5-80.0	75.0-77.5
NNE	17	80.0-82.5	77.5-80.0
NNE	17	82.5-85.0	80.0-82.5
NNE	17	85.0-87.5	82.5-85.0
NNE	17	87.5-90.0	85.0-87.5
NNE	17	90.0-92.5	87.5-90.0
NNE	17	92.5-95.0	90.0-92.5
NNE	17	95.0-97.5	92.5-95.0
NNE	17	97.5-100.0	95.0-97.5
NNE	17	100.0-102.5	97.5-100.0
NNE	17	102.5-105.0	100.0-102.5
NNE	17	105.0-107.5	102.5-105.0
NNE	17	107.5-110.0	105.0-107.5
NNE	17	110.0-112.5	107.5-110.0
NNE	17	112.5-115.0	110.0-112.5
NNE	17	115.0-117.5	112.5-115.0
NNE	17	117.5-120.0	115.0-117.5
NNE	17	120.0-122.5	117.5-120.0
NNE	17	122.5-125.0	120.0-122.5
NNE	17	125.0-127.5	122.5-125.0
NNE	17	127.5-130.0	125.0-127.5
NNE	17	130.0-132.5	127.5-130.0
NNE	17	132.5-135.0	130.0-132.5
NNE	17	135.0-137.5	132.5-135.0
NNE	17	137.5-140.0	135.0-137.5
NNE	17	140.0-142.5	137.5-140.0
NNE	17	142.5-145.0	140.0-142.5
NNE	17	145.0-147.5	142.5-145.0
NNE	17	147.5-150.0	145.0-147.5
NNE	17	150.0-152.5	147.5-150.0
NNE	17	152.5-155.0	150.0-152.5
NNE	17	155.0-157.5	152.5-155.0
NNE	17	157.5-160.0	155.0-157.5
NNE	17	160.0-162.5	157.5-160.0
NNE	17	162.5-165.0	160.0-162.5
NNE	17	165.0-167.5	162.5-165.0
NNE	17	167.5-170.0	165.0-167.5
NNE	17	170.0-172.5	167.5-170.0
NNE	17	172.5-175.0	170.0-172.5
NNE	17	175.0-177.5	172.5-175.0
NNE	17	177.5-180.0	175.0-177.5
NNE	17	180.0-182.5	177.5-180.0
NNE	17	182.5-185.0	180.0-182.5
NNE	17	185.0-187.5	182.5-185.0
NNE	17	187.5-190.0	185.0-187.5
NNE	17	190.0-192.5	187.5-190.0
NNE	17	192.5-195.0	190.0-192.5
NNE	17	195.0-197.5	192.5-195.0
NNE	17	197.5-200.0	195.0-197.5
NNE	17	200.0-202.5	197.5-200.0
NNE	17	202.5-205.0	200.0-202.5
NNE	17	205.0-207.5	202.5-205.0
NNE	17	207.5-210.0	205.0-207.5
NNE	17	210.0-212.5	207.5-210.0
NNE	17	212.5-215.0	210.0-212.5
NNE	17	215.0-217.5	212.5-215.0
NNE	17	217.5-220.0	215.0-217.5
NNE	17	220.0-222.5	217.5-220.0
NNE	17	222.5-225.0	220.0-222.5
NNE	17	225.0-227.5	222.5-225.0
NNE	17	227.5-230.0	225.0-227.5
NNE	17	230.0-232.5	227.5-230.0
NNE	17	232.5-235.0	230.0-232.5
NNE	17	235.0-237.5	232.5-235.0
NNE	17	237.5-240.0	235.0-237.5
NNE	17	240.0-242.5	237.5-240.0
NNE	17	242.5-245.0	240.0-242.5
NNE	17	245.0-247.5	242.5-245.0
NNE	17	247.5-250.0	245.0-247.5
NNE	17	250.0-252.5	247.5-250.0
NNE	17	252.5-255.0	250.0-252.5
NNE	17	255.0-257.5	252.5-255.0
NNE	17	257.5-260.0	255.0-257.5
NNE	17	260.0-262.5	257.5-260.0
NNE	17	262.5-265.0	260.0-262.5
NNE	17	265.0-267.5	262.5-265.0
NNE	17	267.5-270.0	265.0-267.5
NNE	17	270.0-272.5	267.5-270.0
NNE	17	272.5-275.0	270.0-272.5
NNE	17	275.0-277.5	272.5-275.0
NNE	17	277.5-280.0	275.0-277.5
NNE	17	280.0-282.5	277.5-280.0
NNE	17	282.5-285.0	280.0-282.5
NNE	17	285.0-287.5	282.5-285.0
NNE	17	287.5-290.0	285.0-287.5
NNE	17	290.0-292.5	287.5-290.0
NNE	17	292.5-295.0	290.0-292.5
NNE	17	295.0-297.5	292.5-295.0
NNE	17	297.5-300.0	295.0-297.5
NNE	17	300.0-302.5	297.5-300.0
NNE	17	302.5-305.0	300.0-302.5
NNE	17	305.0-307.5	302.5-305.0
NNE	17	307.5-310.0	305.0-307.5
NNE	17	310.0-312.5	307.5-310.0
NNE	17	312.5-315.0	310.0-312.5
NNE	17	315.0-317.5	312.5-315.0
NNE	17	317.5-320.0	315.0-317.5
NNE	17	320.0-322.5	317.5-320.0
NNE	17	322.5-325.0	320.0-322.5
NNE	17	325.0-327.5	322.5-325.0
NNE	17	327.5-330.0	325.0-327.5
NNE	17	330.0-332.5	327.5-330.0
NNE	17	332.5-335.0	330.0-332.5
NNE	17	335.0-337.5	332.5-335.0
NNE	17	337.5-340.0	335.0-337.5
NNE	17	340.0-342.5	337.5-340.0
NNE	17	342.5-345.0	340.0-342.5
NNE	17	345.0-347.5	342.5-345.0
NNE	17	347.5-350.0	345.0-347.5
NNE	17	350.0-352.5	347.5-350.0
NNE	17	352.5-355.0	350.0-352.5
NNE	17	355.0-357.5	352.5-355.0
NNE	17	357.5-360.0	355.0-357.5
NNE	17	360.0-362.5	357.5-360.0
NNE	17	362.5-365.0	360.0-362.5
NNE	17	365.0-367.5	362.5-365.0
NNE	17	367.5-370.0	365.0-367.5
NNE	17	370.0-372.5	367.5-370.0
NNE	17	372.5-375.0	370.0-372.5
NNE	17	375.0-377.5	372.5-375.0
NNE	17	377.5-380.0	375.0-377.5
NNE	17	380.0-382.5	377.5-380.0
NNE	17	382.5-385.0	380.0-382.5
NNE	17	385.0-387.5	382.5-385.0
NNE	17	387.5-390.0	385.0-387.5
NNE	17	390.0-392.5	387.5-390.0
NNE	17	392.5-395.0	390.0-392.5
NNE	17	395.0-397.5	392.5-395.0
NNE	17	397.5-400.0	395.0-397.5
NNE	17	400.0-402.5	397.5-400.0
NNE	17	402.5-405.0	400.0-402.5
NNE	17	405.0-407.5	402.5-405.0
NNE	17	407.5-410.0	405.0-407.5
NNE	17	410.0-412.5	407.5-410.0
NNE	17	412.5-415.0	410.0-412.5
NNE	17	415.0-417.5	412.5-415.0
NNE	17	417.5-420.0	415.0-417.5
NNE	17	420.0-422.5	417.5-420.0
NNE	17	422.5-425.0	420.0-422.5
NNE	17	425.0-427.5	422.5-425.0
NNE	17	427.5-430.0	425.0-427.5
NNE	17	430.0-432.5	427.5-430.0
NNE	17	432.5-435.0	430.0-432.5
NNE	17	435.0-437.5	432.5-435.0
NNE	17	437.5-440.0	435.0-437.5
NNE	17	440.0-442.5	437.5-440.0
NNE	17	442.5-445.0	440.0-442.5
NNE	17	445.0-447.5	442.5-445.0
NNE	17	447.5-450.0	445.0-447.5
NNE	17	450.0-452.5	447.5-450.0
NNE	17	452.5-455.0	450.0-452.5
NNE	17	455.0-457.5	452.5-455.0
NNE	17	457.5-460.0	455.0-457.5
NNE	17	460.0-462.5	457.5-460.0
NNE	17	462.5-465.0	460.0-462.5
NNE	17	465.0-467.5	462.5-465.0
NNE	17	467.5-470.0	465.0-467.5
NNE	17	470.0-472.5	467.5-470.0
NNE	17	472.5-475.0	470.0-472.5
NNE	17	475.0-477.5	472.5-475.0
NNE	17	477.5-480.0	475.0-477.5
NNE	17	480.0-482.5	477.5-480.0
NNE	17	482.5-485.0	480.0-482.5
NNE	17	485.0-487.5	482.5-485.0
NNE	17	487.5-490.0	485.0-487.5
NNE	17	490.0-492.5	487.5-490.0
NNE	17	492.5-495.0	490.0-492.5
NNE	17	495.0-497.5	492.5-495.0
NNE	17	497.5-500.0	495.0-497.5
NNE	17	500.0-502.5	497.5-500.0
NNE	17	502.5-505.0	500.0-502.5
NNE	17	505.0-507.5	502.5-505.0
NNE	17	507.5-510.0	505.0-507.5
NNE	17	510.0-512.5	507.5-510.0
NNE	17	512.5-515.0	510.0-512.5
NNE	17	515.0-517.5	512.5-515.0
NNE	17	517.5-520.0	515.0-517.5
NNE	17	520.0-522.5	517.5-520.0
NNE	17	522.5-525.0	520.0-522.5
NNE	17	525.0-527.5	522.5-525.0
NNE	17	527.5-530.0	525.0-527.5
NNE	17	530.0-532.5	527.5-530.0
NNE	17	532.5-535.0	530.0-532.5
NNE	17	535.0-537.5	532.5-535.0
NNE	17	537.5-540.0	535.0-537.5
NNE	17	540.0-542.5	537.5-540.0
NNE	17	542.5-545.0	540.0-542.5
NNE	17	545.0-547.5	542.5-545.0
NNE	17	547.5-550.0	545.0-547.5
NNE	17	550.0-552.5	547.5-550.0
NNE	17	552.5-555.0	550.0-552.5
NNE	17	555.0-557.5	552.5-555.0
NNE	17	557.5-560.0	555.0-557.5
NNE	17	560.0-562.5	557.5-560.0
NNE	17	562.5-565.0	560.0-562.5
NNE</			

TABLE 2.17

TABLE 2.18

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

WIND SECTOR	0-0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	
							MEAN SPEED	MEAN SPEED
NNE	0.00	0.00	0.00	4.73	8	8	0.00	0.00
NE	0.00	0.00	0.00	.25	.25	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	.59	0.00	0.00	*.59
E	0.00	0.00	0.00	0.00	.03	0.00	0.00	*.03
EE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	4.73	25.44	31.52	34.58	4.14	0.00	0.00	4.41

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

DATA PERIOD: FEBRUARY 1971-1975

STABILITY CLASS:

2

ASQUILL B

ON-SITE

WIND SENSOR HEIGHT:

10.57 METERS

TABLE GENERATED:

05/14/77.

11.41.25.

COOPED NUCLICAL STATION

OMAHA, NEBRASKA

NEBRASKA PUBLIC POWER DISTRICT

DAMES AND MOORE JOB NO: 7635-001-07

TABLE 2.19

		JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS					
		STABILITY CLASS: PASQUILL C					
		DATA SOURCE: ON-SITE					
		WIND SENSOR HEIGHT: 10.67 METERS					
		TABLE GENERATED: 05/14/77 11:41:25.					
WIND SECTOR	WIND CATEGORY	SPEED METERS/SECONDO	WIND CATEGORY	SPEED METERS/SECONDO	WIND CATEGORY	SPEED METERS/SECONDO	WIND CATEGORY
0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0.0	4	8	20	1	0	5.10
NNE	0.00	1.59	3.17	7.94	*4	0.00	13.10
NNE	0.00	-1.12	-25	*4.2	*0.3	0.00	1.02
NNW	0.00	4	0	40	0.00	0.00	3.08
NNW	0.00	*0.3	*0.3	0.00	0.00	0.00	*7.9
ENE	0.00	3	0	0.0	0.00	0.00	*0.0
ENE	0.00	1.14	0.00	0.00	0.00	0.00	2.46
E	0.00	*0.9	0.00	0.00	0.00	0.00	1.19
E	0.00	4.37	1.19	0.00	0.00	0.00	*0.9
ESE	0.00	*3.4	*0.9	0.00	0.00	0.00	2.40
ESE	0.00	1.13	4	0.00	0.00	0.00	*5.56
SE	0.00	*0.9	*40	0.00	0.00	0.00	*4.3
SE	0.00	0.0	0.3	0.00	0.00	0.00	3.06
SSE	0.00	0.00	1.19	*0	0.00	0.00	1.19
SSE	0.00	1	0.9	*0.3	*0.3	0.00	*0.9
SSE	0.00	*40	*40	1.19	*4	0.00	1.14
S	0.00	*0.3	*0.3	*0.9	*0.9	0.00	*0.9
S	0.00	0.0	40	*40	2.38	0.00	*4.06
SSW	0.00	*0.3	*0.3	*1.8	*1.8	0.00	1.59
SSW	0.00	1	1	7	0.00	0.00	*1.12
SSW	*40	*40	40	2.78	0.00	0.00	*4.65
SSW	*0.3	*0.3	*0.3	*2.2	0.00	0.00	*2.38
SW	0.00	0	2	3	*1	0.00	*1.14
SW	0.00	*7.9	1.19	*49	0.00	0.00	*4.02
SW	0.00	*0.6	*0.6	*0.9	*0.9	0.00	*3.17
SW	0.00	*2	*2	*0.9	*0.9	0.00	*2.25
SW	0.00	*7.9	1	1	1	0.00	*1.40
W	0.00	*0.6	*40	*40	0.00	0.00	*3.97
W	0.00	*2	2	*0.3	*0.3	0.00	*1.12
W	0.00	*7.9	7.9	1.19	1.19	0.00	*1.17
WNW	0.00	*0.6	*0.6	*0.9	*0.9	0.00	*2.78
WNW	0.00	*3	*9.5	0.0	0.0	0.00	*2.22
WNW	0.00	1.19	*9.5	0.0	1	0.00	*1.16
WNW	0.00	*0.9	*15	0.00	*40	0.00	*3.57
WNW	0.00	0	8	0.3	0.3	0.00	*2.28
WNW	0.00	0.00	3.17	1.19	1.19	0.00	*1.14
WNW	0.00	*0.00	*25	*0.9	*0.4	0.00	*2.56
WNW	0.00	10	19	25	15	0.00	*4.43
WNW	*40	3.97	7.54	9.92	5.95	0.00	*7.70
WNW	*0.3	*31	*59	*77	*46	0.00	*7.78
N	0.00	0	5	27	18	0.00	*2.16
N	0.00	1.98	10.71	7.14	2.78	0.00	*2.57
CALM	0.00	*15	*83	*55	*22	0.00	*2.62
CALM	*40	0	0	0	0	0.00	1.76
TOTAL	*0.3	4.9	84	88	0	0	CALM
TOTAL	1.19	19.44	33.33	34.92	11.11	0	*40
TOTAL	-0.9	1.51	2.59	2.71	*66	0.00	20.3
KEY	XXX	NUMBER OF OCCURRENCES					252
KEY	XXX	PERCENT OCCURRENCES THIS CLASS					100.00
KEY	XXX	PERCENT OCCURRENCES ALL CLASSES					7.77

TABLE 2.20

POINT PERSPECTIVE DRAWING CLASS

STABILITY CLASS: PASQUILL D
 DATA SOURCE: ON-SITE
 WIND SENSOR HEIGHT: 10.67 METERS
 TABLE GRADED TO: 14.22 METERS
 COOP. NUTTALL STATION
 NEBRASKA - NEBRASKA
 NEBRASKA PUBLIC POWER DISTRICT
 100 N. 10TH
 OMaha, NE 68101-0007

KEY XXX NUMBER OF OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.22

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

		COOPED NUCLEAR STATION OMAHA, NEBRASKA							
		NEBRASKA PUBLIC POWER DISTRICT DAMES AND MOUNT JORDAN NO: 7635-001-07							
WIND SECTOR	0-0-1.5	WIND SPEED CATEGORIES (METERS PER SECOND)						MEAN SPEED	
		1.5-3.0	3.0-5.0	5.0-7.0	7.0-10.0	>10.0	TOTAL		
NNE	1.18	0.0	0.0	0.0	0.0	0.0	0.0	1.19	*.98
N	0.9	0.0	0.0	0.0	0.0	0.0	0.0	*.09	*.79
NE	7.8	0.0	0.0	0.0	0.0	0.0	0.0	*.78	*.79
E	0.6	0.0	0.0	0.0	0.0	0.0	0.0	*.06	1.39
ENE	1.1	0.0	0.0	0.0	0.0	0.0	0.0	*.00	*.78
NEE	3.9	*3*	0.0	0.0	0.0	0.0	0.0	*.00	*.78
E	0.3	*0*	0.0	0.0	0.0	0.0	0.0	*.00	*.00
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
SE	7.8	*7*	0.0	0.0	0.0	0.0	0.0	*.00	1.57
SSE	0.6	*0*	0.0	0.0	0.0	0.0	0.0	*.00	*.12
S	1.18	8.6	1.18	1.54	0.0	0.0	0.0	*.00	2.64
SSW	3.9	*3*	1.57	0.0	0.0	0.0	0.0	*.10	*.00
SW	0.3	*2*	1.52	0.0	0.0	0.0	0.0	*.00	*.40
SSE	7.8	12.55	*7*	0.0	0.0	0.0	0.0	1.12	2.10
S	0.6	*9*	*0*	0.0	0.0	0.0	0.0	*.11	*.00
SSE	1.18	8.6	2.2	1.3	0.0	0.0	0.0	*.00	2.13
S	0.9	8.6	1.18	0.0	0.0	0.0	0.0	*.00	10.93
SSW	0.9	*6*	*6*	0.0	0.0	0.0	0.0	*.00	*.86
SW	1.57	3.42	2.2	1.3	0.0	0.0	0.0	*.00	2.24
SSE	3.9	8.6	1.18	0.0	0.0	0.0	0.0	*.00	*.39
S	0.3	*0*	0.9	0.0	0.0	0.0	0.0	1.12	*.00
SSE	1.18	8.6	2.1	1.7	0.0	0.0	0.0	*.00	*.00
S	0.9	8.6	6.67	0.0	0.0	0.0	0.0	*.00	16.41
SSW	1.57	3.42	*6*	0.0	0.0	0.0	0.0	*.00	*.00
SW	1.12	*3*	0.9	0.0	0.0	0.0	0.0	*.00	1.08
SSE	3.14	3.14	3.14	0.0	0.0	0.0	0.0	*.00	*.00
S	2.25	*2*	*2*	0.0	0.0	0.0	0.0	*.00	*.00
SSE	1.57	3.42	1.57	0.0	0.0	0.0	0.0	*.00	*.00
S	1.12	*2*	*2*	0.0	0.0	0.0	0.0	*.00	*.00
SSE	1.57	4.31	1.1	0.0	0.0	0.0	0.0	*.00	*.00
S	1.12	*3*	*3*	0.0	0.0	0.0	0.0	*.00	*.00
SSE	2.35	4.31	1.1	0.0	0.0	0.0	0.0	*.00	*.00
S	2.18	*3*	*3*	0.0	0.0	0.0	0.0	*.00	*.00
SSE	1.8	3.14	3.14	0.0	0.0	0.0	0.0	*.00	*.00
S	3.14	*3*	*3*	0.0	0.0	0.0	0.0	*.00	*.00
CALM	1.18	*0*	*0*	0.0	0.0	0.0	0.0	*.00	*.00
TOTAL	21.55	61.57	157	16.43	0.00	0.00	0.00	1.18	
	21.27	61.57	157	16.66	0.00	0.00	0.00	1.18	
	1.69	*4*	*4*	0.00	0.00	0.00	0.00	*.00	*.00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCE ALL CLASSES

TABLE 2.23

JOINT WIND FREQUENCY DENSITY 1971 - 1975		STABILITY CLASS					
DATA PERIOD: FEBRUARY 1971 - 1975		STABILITY CLASS					
STABILITY CLASS: PANOULL G		COOPED NUCLEAR STATION					
DATA SOURCE: On-Site		NAME: NUCLEAR STATION					
WIND SENSORS HEIGHT: 10.67 METERS		NAME & PUBLIC POWER DISTRICT					
TABLE GENERATED: 05/14/77 11:41:25.		NAME AND STATE JOB NO:	7635-001-07				
WIND	SECTOR	WIND SPEED CATEGORIES METERS PER SECOND	MEAN SPEED				
0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	MEAN SPEED
NNE	0	0	0	0	0	0	0
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NNE	2.52	0.00	0.00	0.00	0.00	0.00	0.65
NNE	0.04	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	1.68	*64	0.00	0.00	0.00	0.00	1.50
ESE	0.00	*0.3	0.00	0.00	0.00	0.00	0.04
ESE	2.52	2.52	0.00	0.00	0.00	0.00	1.56
ESE	0.04	*0.9	0.00	0.00	0.00	0.00	0.04
SE	0.00	1.2	*84	0.00	0.00	0.00	2.50
SE	0.00	0.06	*0.3	0.00	0.00	0.00	2.52
SSE	0.00	0.2	0.00	0.00	0.00	0.00	0.00
SSE	0.00	1.68	0.00	0.00	0.00	0.00	1.50
SSE	0.00	*0.6	0.00	0.00	0.00	0.00	0.00
S	0.00	7.56	0.00	0.00	0.00	0.00	2.04
SSE	0.00	7.56	0.00	0.00	0.00	0.00	2.04
SSE	0.00	*24	0.00	0.00	0.00	0.00	2.50
SSE	2.52	1.2	*1	0.00	0.00	0.00	2.52
SSE	10.04	*84	0.00	0.00	0.00	0.00	2.17
SSE	0.04	*37	*0.3	0.00	0.00	0.00	1.43
SSE	3.36	*5	0.00	0.00	0.00	0.00	1.68
SSE	3.36	*20	7.56	0.00	0.00	0.00	2.75
SSE	1.12	*15	*28	0.00	0.00	0.00	2.04
SSE	7.56	5.6	0.00	0.00	0.00	0.00	2.50
SSE	7.56	5.04	0.00	0.00	0.00	0.00	2.50
SSE	7.56	*18	0.00	0.00	0.00	0.00	2.17
SSE	7.56	7.9	0.00	0.00	0.00	0.00	1.50
SSE	5.88	7.56	0.00	0.00	0.00	0.00	1.43
SSE	*22	*28	0.00	0.00	0.00	0.00	1.43
SSE	1.68	*1	0.00	0.00	0.00	0.00	1.43
SSE	1.68	*64	0.00	0.00	0.00	0.00	1.43
SSE	0.06	*0.3	0.00	0.00	0.00	0.00	1.43
SSE	1.68	*3.4	0.00	0.00	0.00	0.00	1.43
SSE	*0.6	3.36	0.00	0.00	0.00	0.00	1.43
SSE	2.52	5.6	0.00	0.00	0.00	0.00	1.43
SSE	2.09	*18	0.00	0.00	0.00	0.00	1.43
SSE	4.20	1.68	*64	0.00	0.00	0.00	1.52
SSE	*1.5	*6	*0.3	0.00	0.00	0.00	1.43
CALM	1.68	*0.6	0.00	0.00	0.00	0.00	1.43
TOTAL	37.82	52.92	10.08	0.00	0.00	0.00	1.85
TOTAL	1.39	1.91	.37	0.00	0.00	0.00	3.67

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.24

DRAFT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

		COOPER NURTFAW STATION									
		NEBRASKA PUBLIC POWER DISTRICT									
		DATE'S AND MODE JOB NO: 7635-001-07									
WIND SECTOR	0-0.5 M/S	SPEED 1.5-3.0 M/S	CATEGORIES 3.0-5.0 M/S	MEAN 5.0-7.5 M/S	PEAK 7.5-10.0 M/S	SECOND 10.0-12.5 M/S	THIRD 12.5-15.0 M/S	FOURTH 15.0-17.5 M/S	FIFTH 17.5-20.0 M/S	SIXTH 20.0-22.5 M/S	SEVENTH 22.5-25.0 M/S
NNE	.17	4.8	9.4	.98	1.0	0	0	0	0	248	4.37
NE	.15	4.3	7.3	.2	0.0	0	0	0	0	7.64	
ENE	.46	1.33	.71	.06	0.0	0	0	0	0	2.56	2.47
ENE	.10	3.4	.6	0.0	0	0	0	0	0	2.0	2.19
E	.51	1.65	.18	0.0	0.0	0	0	0	0	1.54	
E	.13	3.6	9	0	0	0	0	0	0	58	2.23
ESE	.40	1.11	.28	0.0	0.0	0	0	0	0	1.79	
ESE	.16	4.4	27	0.0	0.0	0	0	0	0	92	2.70
SE	.49	1.36	.83	.15	0.0	0	0	0	0	2.84	
SC	.10	7.1	.57	.12	0	0	0	0	0	150	3.10
-	.19	2.19	1.76	.37	0.0	0	0	0	0	4.62	
SSE	.08	7.2	.79	.24	.1	0	0	0	0	188	3.51
SSE	.25	2.22	2.43	.46	.03	0	0	0	0	5.79	
S	.15	8.1	10.4	.54	.2	0	0	0	0	246	3.77
SSE	.15	2.50	3.20	1.66	.06	0	0	0	0	7.58	
SSE	.9	9.9	.80	.57	.2	0	0	0	0	249	3.75
SSE	.28	3.05	2.87	1.76	.05	0	0	0	0	7.67	
SSE	.14	8.3	.94	.22	.1	0	0	0	0	214	3.30
SSE	.43	2.56	2.90	.68	.03	0	0	0	0	6.59	
SSE	.30	5.2	.40	.12	.2	0	0	0	0	136	2.90
SSE	.92	1.60	1.23	.37	.06	0	0	0	0	4.19	
SSE	.25	1.40	.31	.13	.2	0	0	0	0	111	2.85
SSE	.77	1.23	.46	.40	.06	0	0	0	0	3.42	
SSE	.24	4.2	.49	.29	.10	0	0	0	0	154	3.76
SSE	.74	1.29	1.51	.69	.34	0	0	0	0	4.75	
NW	.19	11.5	12.3	.75	.18	0	0	0	0	356	4.03
NW	.59	3.54	3.79	2.31	.55	.18	0	0	0	10.97	
NW	.29	12.8	13.0	.114	.68	7	4.76	4.60			
NW	.69	3.94	4.01	.341	2.10	.22	1.467				
N	.29	7.2	1.38	.118	.46	.18	1.405	.73			
CALM	.29	.89	2.22	.425	.341	1.42	.18	12.48			
TOTAL	297	10.60	3.084	19.14	.162	.21					
	9.15	32.67	35.41	19.14	.499	.65	3245	3.79			
NUMBER OF VALID OBSERVATIONS							95.89	PCT.			
NUMBER OF INVALID OBSERVATIONS							4.11	PCT.			
TOTAL NUMBER OF OBSERVATIONS							100.00	PCT.			
KEY							XXX	NUMBER OF OCCURRENCES			
							XXX	PERCENT OCCURRENCES			

TABLE 2.25

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 1940 - 1945

STABILITY CLASS: PASOULL A

DATA SOURCE: ON-SITE

WIND SENSOR HEIGHT: 10.67 METERS

TABLE GENERATED: 05/14/77, 11:44:03.

COUPED NUCL FAE STATION
OF MARIA, NEVADA &
NEVADA PUBLIC POWER DISTRICT
(NAME AND) MOBIE JOR NO: 7435-001-07

WIND SECTOR 0.0-1.5 1.5-3.0 3.0-5.0 3.0-7.5 5.0-10.0 7.5-10.0 >10.0 TOTAL MEAN SPEED

	NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	8010	8011	8012	8013	8014	8015	8016	8017	8018	8019	8020	8021	8022	8023	8024	8025	8026	8027	8028	8029	8030	8031	8032	8033	8034	8035	8036	8037	8038	8039	8040	8041	8042	8043	8044	8045	8046	8047	8048	8049	8050	8051	8052	8053	8054	8055	8056	8057	8058	8059	8060	8061	8062	8063	8064	8065	8066	8067	8068	8069	8070	8071	8072	8073	8074	8075	8076	8077	8078	8079	8080	8081	8082	8083	8084	8085	8086	8087	8088	8089	8090	8091	8092	8093	8094	8095	8096	8097	8098	8099	80100	80101	80102	80103	80104	80105	80106	80107	80108	80109	80110	80111	80112	80113	80114	80115	80116	80117	80118	80119	80120	80121	80122	80123	80124	80125	80126	80127	80128	80129	80130	80131	80132	80133	80134	80135	80136	80137	80138	80139	80140	80141	80142	80143	80144	80145	80146	80147	80148	80149	80150	80151	80152	80153	80154	80155	80156	80157	80158	80159	80160	80161	80162	80163	80164	80165	80166	80167	80168	80169	80170	80171	80172	80173	80174	80175	80176	80177	80178	80179	80180	80181	80182	80183	80184	80185	80186	80187	80188	80189	80190	80191	80192	80193	80194	80195	80196	80197	80198	80199	80200	80201	80202	80203	80204	80205	80206	80207	80208	80209	80210	80211	80212	80213	80214	80215	80216	80217	80218	80219	80220	80221	80222	80223	80224	80225	80226	80227	80228	80229	80230	80231	80232	80233	80234	80235	80236	80237	80238	80239	80240	80241	80242	80243	80244	80245	80246	80247	80248	80249	80250	80251	80252	80253	80254	80255	80256	80257	80258	80259	80260	80261	80262	80263	80264	80265	80266	80267	80268	80269	80270	80271	80272	80273	80274	80275	80276	80277	80278	80279	80280	80281	80282	80283	80284	80285	80286	80287	80288	80289	80290	80291	80292	80293	80294	80295	80296	80297	80298	80299	80300	80301	80302	80303	80304	80305	80306	80307	80308	80309	80310	80311	80312	80313	80314	80315	80316	80317	80318	80319	80320	80321	80322	80323	80324	80325	80326	80327	80328	80329	80330	80331	80332	80333	80334	80335	80336	80337	80338	80339	80340	80341	80342	80343	80344	80345	80346	80347	80348	80349	80350	80351	80352	80353	80354	80355	80356	80357	80358	80359	80360	80361	80362	80363	80364	80365	80366	80367	80368	80369	80370	80371	80372	80373	80374	80375	80376	80377	80378	80379	80380	80381	80382	80383	80384	80385	80386	80387	80388	80389	80390	80391	80392	80393	80394	80395	80396	80397	80398	80399	80400	80401	80402	80403	80404	80405	80406	80407	80408	80409	80410	80411	80412	80413	80414	80415	80416	80417	80418	80419	80420	80421	80422	80423	80424	80425	80426	80427	80428	80429	80430	80431	80432	80433	80434	80435	80436	80437	80438	80439	80440	80441	80442	80443	80444	80445	80446	80447	80448	80449	80450	80451	80452	80453	80454	80455	80456	80457	80458	80459	80460	80461	80462	80463	80464	80465	80466	80467	80468	80469	80470	80471	80472	80473	80474	80475	80476	80477	80478	80479	80480	80481	80482	80483	80484	80485	80486	80487	80488	80489	80

TABLE 2.26

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		CLOUDED NUCLEAR STATION NE NEUTRAL, NE RADIA NE RADIA, A PUBLIC POWER DATA SOURCES AND SOURCE JOB NO.: 7635-001-07					
WIND SECTOR	0.0-1.5 MPH	1.5-3.0 MPH	3.0-5.0 MPH	5.0-7.5 MPH	7.5-10 MPH	>10 MPH	TOTAL
NNE	1.83 .07	1.22 .05	1.22 .03	.5 .02	.1 .02	0 0	1.11 4.11
NE	0.00 0.00	0.00 0.00	1.43 .07	1.72 .05	0.00 0.00	0.00 0.00	7.93 4.68
ENE	0.00 0.00	0.00 0.02	1.4 .21	0.5 .09	0.00 0.00	0.00 0.00	3.05 3.51
E	0.00 0.00	0.00 0.00	2.44 .10	0.00 .09	0.00 0.00	0.00 0.00	3.05 3.51
EE	0.00 0.00	0.00 0.03	1.22 .05	1.22 .04	0.00 0.00	0.00 0.00	2.44 4.18
SE	0.00 0.00	0.01 .02	1.83 .07	1.22 .07	0.00 0.00	0.00 0.00	3.66 3.15
SE	0.00 0.00	0.00 0.02	1.4 .11	1.3 .05	1.83 1.83	0.00 0.00	5.78 6.11
SSE	0.00 0.00	0.01 .02	2.44 .10	1.43 .07	1.83 1.83	0.00 0.00	6.71 6.27
S	0.00 0.00	0.00 0.02	1.22 .05	1.22 .05	1.00 1.00	0.00 0.00	5.58 5.49
SSW	0.00 0.00	0.00 0.02	2.44 .10	1.22 .07	1.22 1.22	0.00 0.00	5.16 4.88
SW	0.00 0.00	0.00 0.02	1.44 .07	1.22 .07	1.00 1.00	0.00 0.00	5.67 5.20
SW	0.00 0.00	0.00 0.02	2.44 .10	1.22 .07	1.00 1.00	0.00 0.00	4.27 4.17
W	0.00 0.00	0.00 0.02	1.44 .07	1.00 1.00	0.00 0.00	0.00 0.00	6.17 5.28
WNW	0.00 0.00	0.00 0.02	2.44 .10	1.22 .07	1.00 1.00	0.00 0.00	5.00 4.66
WNW	0.00 0.00	0.00 0.02	1.44 .07	1.22 .07	1.00 1.00	0.00 0.00	5.72 5.39
W	0.00 0.00	0.00 0.02	2.44 .10	1.22 .07	1.00 1.00	0.00 0.00	6.71 6.31
NNW	0.00 0.00	0.00 0.02	2.44 .10	1.22 .07	1.00 1.00	0.00 0.00	8.53 8.16
NNW	0.00 0.00	0.00 0.02	2.44 .10	1.22 .07	1.00 1.00	0.00 0.00	5.36 5.20
N	0.00 0.00	0.00 0.02	2.44 .10	1.22 .07	1.00 1.00	0.00 0.00	6.72 6.27
CALM	0.00 0.00	0.00 0.02	2.44 .10	1.22 .07	1.00 1.00	0.00 0.00	0.00 0.00
TOTAL	1.83 .07	7.93 .32	34.76 1.40	34.76 .29	14.02 14.00	6.71 6.01	100.00 100.00

KEY
 XXX NUMBER OF OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.28

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 1970 - 1975

WIND SECTOR	WIND SPEED CATEGORIES (METERS PER SECOND)			MEAN SPEED		
	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0
NNE	2	4.2	7.7	3.8	5	0
NNE	*1.3	2.63	4.82	2.38	*31	0.0
NNE	*0.5	1.03	1.88	*93	*12	0.0
NE	*3.1	2.13	5.44	1.43	*25	0.0
NE	*1.2	0.83	2.13	*64	*10	0.0
ENE	*3.1	1.30	5.54	1.7	0	0.0
ENE	*1.2	1.88	3.38	*44	0.0	0.0
E	*3.4	1.73	1.32	*17	0.0	0.0
E	*2.5	2.07	3.57	*6	*1	0.0
ESE	*1.0	*H1	1.40	*20	*06	*06
ESE	*1.5	1.69	2.26	*13	*02	*02
SE	*0.5	0.60	2.88	*41	*44	*04
SE	*4	3.88	5.9	*32	*17	*02
SSE	*2.5	2.48	3.69	*55	*8	*2
SSE	*1.0	*93	1.44	*44	*50	*1.3
SSE	*8	3.31	4.40	*25	*20	*5
SSE	*2.0	1.94	2.50	1.56	*06	*06
S	*2.3	*76	*98	*61	*02	*02
S	*1.9	1.14	*25	*14	*02	*02
SSW	*0	*88	1.56	*68	*09	*1.9
SSW	*0.7	*34	*61	*34	*02	*07
SSW	*0	*5	1.12	*31	*1	*2
SSW	0.00	*3	*75	1.94	*06	*1.5
SSW	0.00	*1.2	*24	*76	*06	*06
SSW	0.00	*2	*17	*8	*3	*3
SSW	0.00	*1.3	1.06	*40	*19	*19
SSW	0.00	*0.5	*42	*29	*07	*07
SSW	*0.6	*4	*4	*44	*06	*1.9
SSW	*0.2	*1.7	*1.7	*17	*02	*07
SSW	*1	*8	1.0	*11	*6	*1.4
SSW	*0.6	*20	*03	*49	*03	*03
SSW	*0.2	*20	*24	*27	*15	*0.0
SSW	*1	*4	1.7	*11	*0	*0
SSW	*0.6	*25	1.06	*62	*0.0	*3
SSW	*0.2	*10	*42	*27	*0.0	*1.2
SSW	*1.7	*42	*30	*30	*0	*0
SSW	0.00	*1.7	*06	*94	*94	*0.0
SSW	0.00	1.06	2.63	1.94	*94	0.0
SSW	0.00	*42	1.03	*73	*27	0.0
SSW	*3	2.0	4.7	*52	*6	0.0
SSW	*1.9	1.25	2.94	*32	*50	*38
SSW	*0.7	*49	1.15	1.27	*20	*1.7
S	*3	*46	1.08	*66	*3	*3.33
S	*1.9	2.68	6.76	*26	*19	*1.29
CALM	*0.7	1.13	2.64	1.66	*07	*0.6
TOTAL	*6.9	22.40	43.49	25.04	6.0	*6.9
TOTAL	*2.7	358	695	25.28	2.8	*2.7
TOTAL	3.32	8.76	17.01	9.69	1.75	1.75
TOTAL	1.30				1.69	1.69

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.29

DATA PERIOD: MARCH 1970-1975

STABILITY CLASS: PASO DUKE F

DATA SOURCE: ON-SITE WIND SENSOR HEIGHT 10.67 METERS

TABLE GENERATED: 05/14/77 11:44:03.

WIND SECTION	WIND SPEED	CATEGORIES PER SECOND			TOTAL	MEAN SPEED
		0.0-1.5	1.5-3.0	3.0-5.0		
NNE	9	.24	.22	.3	0	0
	1.02	2.71	2.49	.74	0.00	6.56
	.23	.59	.54	.07	0.00	1.42
NE	7	.19	.19	.06	0.00	1.32
	.79	2.15	.66	0.00	0.00	3.62
	.17	.47	.47	.15	0.00	1.66
ENE	8	.13	.13	.01	0.00	1.22
	.90	1.47	.11	0.00	0.00	2.49
	.20	.32	.02	0.00	0.00	2.16
E	8	.17	.17	.07	0.00	1.32
	.90	1.92	.79	0.00	0.00	3.92
	.20	.42	.17	0.00	0.00	1.78
ESE	1	.13	.23	.13	0.00	2.50
	.83	2.63	1.47	.23	0.00	5.66
	.24	.61	.32	.05	0.00	1.62
SE	11	.31	.52	.16	0.00	3.44
	1.24	3.76	5.82	1.41	0.00	12.44
	.27	.76	1.27	.39	0.00	2.69
SSE	9	.29	.37	.10	0.00	3.22
	1.02	3.24	4.19	1.13	0.00	9.62
	.22	.74	.91	.24	0.00	2.08
S	6	.23	.31	.10	0.00	3.79
	.68	2.63	3.51	1.11	0.00	12.10
	.15	.61	.76	.34	0.00	1.96
SSW	3	.14	.44	.12	0.00	1.74
	.34	1.18	4.98	1.36	0.00	12.65
	.07	.34	1.04	.29	0.02	1.81
SW	4	.09	.17	.05	0.00	3.34
	.45	.90	1.92	.57	0.00	3.05
	.10	.20	.42	.12	0.00	1.83
WSW	3	.04	.23	.09	0.00	1.94
	.34	.45	.23	0.00	0.00	1.02
	.07	.10	.05	0.00	0.00	0.22
W	3	.09	.22	.02	0.00	1.14
	.34	1.02	.23	0.00	0.00	2.24
	.07	.22	.05	0.00	0.00	1.56
WNW	3	.07	.12	0.00	0.00	1.34
	.34	.72	1.36	0.00	0.00	2.22
	.07	.17	.29	0.00	0.00	2.49
NNW	3	.13	.28	.02	0.00	1.54
	.34	1.47	3.17	.23	0.00	3.77
	.07	.32	.69	.05	0.00	5.54
NNN	10	.52	.67	.02	0.00	1.31
	.13	5.88	7.58	.73	0.00	14.82
	.24	1.27	1.64	.05	0.00	3.21
N	10	.33	.25	.04	0.00	6.73
	1.13	3.73	2.83	.45	0.00	8.26
	.24	.81	.61	.10	0.00	1.79
CALM	9	1.02	0.00	0.00	0.00	1.9
						1.02
TOTAL	1316	323	366	72	0	8.94
	1312	3654	4140	8.14	0.00	100.00
	2.84	7.91	6.96	1.17	0.00	21.64

KEY
 XXX NUMBER OF OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.30

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
DATA PERIOD: MARCH 1950 - 1955									
COOPED NUOFAW STATION NEBRASKA - NE HUANA NEBRASKA PUBLIC POWER DISTRICT DAMES AND MOUSE JOHN NO: 7635-001-07									
STABILITY CLASS: PASQUILL F									
DATA SOURCE: ON-SITE WIND SENSOR HEIGHT: 10.67 METERS TABLE GENERATED: 05/14/77.	MEAN WIND SECTOR	0.0-1.5 0.0-1.5 1.5-3.0	COUNT CATEGORY	1.5-5.0 1.5-5.0 5.0-7.5 7.5-10.0	PER SECOND	1.5-5.0 1.5-5.0 5.0-7.5 7.5-10.0	PER SECOND	1.5-5.0 1.5-5.0 5.0-7.5 7.5-10.0	MEAN SPECI
NNE	NE	*.98 .07 .05	*.65 .05 1.31	*.33 .02 *.11	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	1.40 1.96 1.11
NE	E	*.63 .12 .16	*.33 .02 *.03	*.32 .02 *.02	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	2.12 3.59 2.41
ENE	NE	*.96 .15 .15	*.65 .05 *.07	*.33 .02 *.02	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	3.42 3.42 2.29
E	E	1.31 .10 .08	2.24 1.15 1.40	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	1.74 2.20 2.20
ESE	SE	*.98 .07 .07	1.40 1.37 1.18	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	6.54 6.54 4.94
SE	S	2.29 .17 .05	5.68 2.17 1.31	*.98 *.44 *.25	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	2.07 2.07 2.53
SSE	S	*.65 .05 .05	1.13 1.13 1.16	*.07 *.32 *.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	1.13 1.13 1.13
SSW	S	2.29 .17 .05	1.34 1.10 1.05	1.96 1.15 1.24	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	2.23 2.23 2.53
SW	SW	1.63 .12 .04	1.31 1.10 1.07	*.33 *.02 *.02	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	1.62 1.62 2.00
WSW	SW	1.31 .10 .05	2.24 1.17 *.59	*.65 *.05 *.05	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	2.10 2.10 1.98
SW	W	1.63 .12 .04	1.31 1.10 1.07	*.33 *.02 *.02	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	1.62 1.62 2.00
WNW	W	1.31 .10 .05	2.24 1.17 *.59	*.65 *.05 *.05	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	1.62 1.62 2.00
NNW	N	1.63 .12 .04	1.31 1.10 1.07	*.33 *.02 *.02	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	1.62 1.62 2.00
TOTAL		22.55 1.69	61.11 4.58	14.43 1.12	1.5 0.00	0.00 0.00	0.00 0.00	0.00 0.00	2.15 1.49

NUMBER OF OCCUPANCIES

TABLE 2.31

JOINT POINTS AND FRACTURE LOCATIONS IN STABILISITY CLASSES

STABILITY CLASS: PASQUILL 6
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.07 METERS
TOWER GENERATION: OK/16/07 11:44:03
CLOUDY MURKAW STATION
NEAR MANA, NE HAWAII
NE HAWAII PUBLIC POWER DISTRICT
NAME: K. AND MURKAW
PHONE NO.: 743-001-00

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.32

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MARCH 1970-1971

ALL CLASSES
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.07 METERS

TABLE GENERATED: 05/14/77. 11.4.0.3.

COOPED NUCLEAR STATION

NEBRASKA NEBRASKA POWER DISTRICT
DAVIS AND 400ft. JOB NO: 7635-001-07

WIND SPEED CATEGORIES METERS PER SECOND

0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0

MEAN SPEED

NAME SECTOR 0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0

TOTAL

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TABLE 2.33

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		COOPED HAWAIIAN PUBLIC POWER DISTRICT							
STABILITY CLASS: PASO DUKE		NAME: NALAKA ADDRESS: NALAKA WIND POWER DISTRICT DAMES AND MODES JOB NO: 7635-001-07							
DATA SOURCE: ON-SITE		WIND SENSORS HEIGHT: 10.27 METERS							
WIND GENERATION: 05/14/77. 11.46.53.		DATE GENERATED: 05/14/77. 11.46.53.							
WIND SECTOR	0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 10.0-14.0 14.0-17.5 17.5-21.0 21.0-24.5 24.5-28.0 28.0-31.5 31.5-35.0 35.0-38.5 38.5-42.0 42.0-45.5 45.5-49.0 49.0-52.5 52.5-56.0 56.0-60.0 60.0-63.5 63.5-67.0 67.0-70.5 70.5-74.0 74.0-77.5 77.5-81.0 81.0-84.5 84.5-88.0 88.0-91.5 91.5-95.0 95.0-98.5 98.5-102.0 102.0-105.5 105.5-109.0 109.0-112.5 112.5-116.0 116.0-120.0 120.0-123.5 123.5-127.0 127.0-130.5 130.5-134.0 134.0-137.5 137.5-141.0 141.0-144.5 144.5-148.0 148.0-151.5 151.5-155.0 155.0-158.5 158.5-162.0 162.0-165.5 165.5-169.0 169.0-172.5 172.5-176.0 176.0-180.0 180.0-183.5 183.5-187.0 187.0-190.5 190.5-194.0 194.0-197.5 197.5-201.0 201.0-204.5 204.5-208.0 208.0-211.5 211.5-215.0 215.0-218.5 218.5-222.0 222.0-225.5 225.5-229.0 229.0-232.5 232.5-236.0 236.0-240.0 240.0-243.5 243.5-247.0 247.0-250.5 250.5-254.0 254.0-257.5 257.5-261.0 261.0-264.5 264.5-268.0 268.0-271.5 271.5-275.0 275.0-278.5 278.5-282.0 282.0-285.5 285.5-289.0 289.0-292.5 292.5-296.0 296.0-299.5 299.5-303.0 303.0-306.5 306.5-310.0 310.0-313.5 313.5-317.0 317.0-320.5 320.5-324.0 324.0-327.5 327.5-331.0 331.0-334.5 334.5-338.0 338.0-341.5 341.5-345.0 345.0-348.5 348.5-352.0 352.0-355.5 355.5-359.0 359.0-362.5 362.5-366.0 366.0-370.0 370.0-373.5 373.5-377.0 377.0-380.5 380.5-384.0 384.0-387.5 387.5-391.0 391.0-394.5 394.5-398.0 398.0-401.5 401.5-405.0 405.0-408.5 408.5-412.0 412.0-415.5 415.5-419.0 419.0-422.5 422.5-426.0 426.0-429.5 429.5-433.0 433.0-436.5 436.5-440.0 440.0-443.5 443.5-447.0 447.0-450.5 450.5-454.0 454.0-457.5 457.5-461.0 461.0-464.5 464.5-468.0 468.0-471.5 471.5-475.0 475.0-478.5 478.5-482.0 482.0-485.5 485.5-489.0 489.0-492.5 492.5-496.0 496.0-499.5 499.5-503.0 503.0-506.5 506.5-510.0 510.0-513.5 513.5-517.0 517.0-520.5 520.5-524.0 524.0-527.5 527.5-531.0 531.0-534.5 534.5-538.0 538.0-541.5 541.5-545.0 545.0-548.5 548.5-552.0 552.0-555.5 555.5-559.0 559.0-562.5 562.5-566.0 566.0-570.0 570.0-573.5 573.5-577.0 577.0-580.5 580.5-584.0 584.0-587.5 587.5-591.0 591.0-594.5 594.5-598.0 598.0-601.5 601.5-605.0 605.0-608.5 608.5-612.0 612.0-615.5 615.5-619.0 619.0-622.5 622.5-626.0 626.0-629.5 629.5-633.0 633.0-636.5 636.5-640.0 640.0-643.5 643.5-647.0 647.0-650.5 650.5-654.0 654.0-657.5 657.5-661.0 661.0-664.5 664.5-668.0 668.0-671.5 671.5-675.0 675.0-678.5 678.5-682.0 682.0-685.5 685.5-689.0 689.0-692.5 692.5-696.0 696.0-699.5 699.5-703.0 703.0-706.5 706.5-710.0 710.0-713.5 713.5-717.0 717.0-720.5 720.5-724.0 724.0-727.5 727.5-731.0 731.0-734.5 734.5-738.0 738.0-741.5 741.5-745.0 745.0-748.5 748.5-752.0 752.0-755.5 755.5-759.0 759.0-762.5 762.5-766.0 766.0-770.0 770.0-773.5 773.5-777.0 777.0-780.5 780.5-784.0 784.0-787.5 787.5-791.0 791.0-794.5 794.5-798.0 798.0-801.5 801.5-805.0 805.0-808.5 808.5-812.0 812.0-815.5 815.5-819.0 819.0-822.5 822.5-826.0 826.0-829.5 829.5-833.0 833.0-836.5 836.5-840.0 840.0-843.5 843.5-847.0 847.0-850.5 850.5-854.0 854.0-857.5 857.5-861.0 861.0-864.5 864.5-868.0 868.0-871.5 871.5-875.0 875.0-878.5 878.5-882.0 882.0-885.5 885.5-889.0 889.0-892.5 892.5-896.0 896.0-899.5 899.5-903.0 903.0-906.5 906.5-910.0 910.0-913.5 913.5-917.0 917.0-920.5 920.5-924.0 924.0-927.5 927.5-931.0 931.0-934.5 934.5-938.0 938.0-941.5 941.5-945.0 945.0-948.5 948.5-952.0 952.0-955.5 955.5-959.0 959.0-962.5 962.5-966.0 966.0-970.0 970.0-973.5 973.5-977.0 977.0-980.5 980.5-984.0 984.0-987.5 987.5-991.0 991.0-994.5 994.5-998.0 998.0-1001.5 1001.5-1005.0 1005.0-1008.5 1008.5-1012.0 1012.0-1015.5 1015.5-1019.0 1019.0-1022.5 1022.5-1026.0 1026.0-1029.5 1029.5-1033.0 1033.0-1036.5 1036.5-1040.0 1040.0-1043.5 1043.5-1047.0 1047.0-1050.5 1050.5-1054.0 1054.0-1057.5 1057.5-1061.0 1061.0-1064.5 1064.5-1068.0 1068.0-1071.5 1071.5-1075.0 1075.0-1078.5 1078.5-1082.0 1082.0-1085.5 1085.5-1089.0 1089.0-1092.5 1092.5-1096.0 1096.0-1099.5 1099.5-1103.0 1103.0-1106.5 1106.5-1110.0 1110.0-1113.5 1113.5-1117.0 1117.0-1120.5 1120.5-1124.0 1124.0-1127.5 1127.5-1131.0 1131.0-1134.5 1134.5-1138.0 1138.0-1141.5 1141.5-1145.0 1145.0-1148.5 1148.5-1152.0 1152.0-1155.5 1155.5-1159.0 1159.0-1162.5 1162.5-1166.0 1166.0-1170.0 1170.0-1173.5 1173.5-1177.0 1177.0-1180.5 1180.5-1184.0 1184.0-1187.5 1187.5-1191.0 1191.0-1194.5 1194.5-1198.0 1198.0-1201.5 1201.5-1205.0 1205.0-1208.5 1208.5-1212.0 1212.0-1215.5 1215.5-1219.0 1219.0-1222.5 1222.5-1226.0 1226.0-1229.5 1229.5-1233.0 1233.0-1236.5 1236.5-1240.0 1240.0-1243.5 1243.5-1247.0 1247.0-1250.5 1250.5-1254.0 1254.0-1257.5 1257.5-1261.0 1261.0-1264.5 1264.5-1268.0 1268.0-1271.5 1271.5-1275.0 1275.0-1278.5 1278.5-1282.0 1282.0-1285.5 1285.5-1289.0 1289.0-1292.5 1292.5-1296.0 1296.0-1299.5 1299.5-1303.0 1303.0-1306.5 1306.5-1310.0 1310.0-1313.5 1313.5-1317.0 1317.0-1320.5 1320.5-1324.0 1324.0-1327.5 1327.5-1331.0 1331.0-1334.5 1334.5-1338.0 1338.0-1341.5 1341.5-1345.0 1345.0-1348.5 1348.5-1352.0 1352.0-1355.5 1355.5-1359.0 1359.0-1362.5 1362.5-1366.0 1366.0-1370.0 1370.0-1373.5 1373.5-1377.0 1377.0-1380.5 1380.5-1384.0 1384.0-1387.5 1387.5-1391.0 1391.0-1394.5 1394.5-1398.0 1398.0-1401.5 1401.5-1405.0 1405.0-1408.5 1408.5-1412.0 1412.0-1415.5 1415.5-1419.0 1419.0-1422.5 1422.5-1426.0 1426.0-1429.5 1429.5-1433.0 1433.0-1436.5 1436.5-1440.0 1440.0-1443.5 1443.5-1447.0 1447.0-1450.5 1450.5-1454.0 1454.0-1457.5 1457.5-1461.0 1461.0-1464.5 1464.5-1468.0 1468.0-1471.5 1471.5-1475.0 1475.0-1478.5 1478.5-1482.0 1482.0-1485.5 1485.5-1489.0 1489.0-1492.5 1492.5-1496.0 1496.0-1499.5 1499.5-1503.0 1503.0-1506.5 1506.5-1510.0 1510.0-1513.5 1513.5-1517.0 1517.0-1520.5 1520.5-1524.0 1524.0-1527.5 1527.5-1531.0 1531.0-1534.5 1534.5-1538.0 1538.0-1541.5 1541.5-1545.0 1545.0-1548.5 1548.5-1552.0 1552.0-1555.5 1555.5-1559.0 1559.0-1562.5 1562.5-1566.0 1566.0-1570.0 1570.0-1573.5 1573.5-1577.0 1577.0-1580.5 1580.5-1584.0 1584.0-1587.5 1587.5-1591.0 1591.0-1594.5 1594.5-1598.0 1598.0-1601.5 1601.5-1605.0 1605.0-1608.5 1608.5-1612.0 1612.0-1615.5 1615.5-1619.0 1619.0-1622.5 1622.5-1626.0 1626.0-1629.5 1629.5-1633.0 1633.0-1636.5 1636.5-1640.0 1640.0-1643.5 1643.5-1647.0 1647.0-1650.5 1650.5-1654.0 1654.0-1657.5 1657.5-1661.0 1661.0-1664.5 1664.5-1668.0 1668.0-1671.5 1671.5-1675.0 1675.0-1678.5 1678.5-1682.0 1682.0-1685.5 1685.5-1689.0 1689.0-1692.5 1692.5-1696.0 1696.0-1699.5 1699.5-1703.0 1703.0-1706.5 1706.5-1710.0 1710.0-1713.5 1713.5-1717.0 1717.0-1720.5 1720.5-1724.0 1724.0-1727.5 1727.5-1731.0 1731.0-1734.5 1734.5-1738.0 1738.0-1741.5 1741.5-1745.0 1745.0-1748.5 1748.5-1752.0 1752.0-1755.5 1755.5-1759.0 1759.0-1762.5 1762.5-1766.0 1766.0-1770.0 1770.0-1773.5 1773.5-1777.0 1777.0-1780.5 1780.5-1784.0 1784.0-1787.5 1787.5-1791.0 1791.0-1794.5 1794.5-1798.0 1798.0-1801.5 1801.5-1805.0 1805.0-1808.5 1808.5-1812.0 1812.0-1815.5 1815.5-1819.0 1819.0-1822.5 1822.5-1826.0 1826.0-1829.5 1829.5-1833.0 1833.0-1836.5 1836.5-1840.0 1840.0-1843.5 1843.5-1847.0 1847.0-1850.5 1850.5-1854.0 1854.0-1857.5 1857.5-1861.0 1861.0-1864.5 1864.5-1868.0 1868.0-1871.5 1871.5-1875.0 1875.0-1878.5 1878.5-1882.0 1882.0-1885.5 1885.5-1889.0 1889.0-1892.5 1892.5-1896.0 1896.0-1899.5 1899.5-1903.0 1903.0-1906.5 1906.5-1910.0 1910.0-1913.5 1913.5-1917.0 1917.0-1920.5 1920.5-1924.0 1924.0-1927.5 1927.5-1931.0 1931.0-1934.5 1934.5-1938.0 1938.0-1941.5 1941.5-1945.0 1945.0-1948.5 1948.5-1952.0 1952.0-1955.5 1955.5-1959.0 1959.0-1962.5 1962.5-1966.0 1966.0-1970.0 1970.0-1973.5 1973.5-1977.0 1977.0-1980.5 1980.5-1984.0 1984.0-1987.5 1987.5-1991.0 1991.0-1994.5 1994.5-1998.0 1998.0-2001.5 2001.5-2005.0 2005.0-2008.5 2008.5-2012.0 2012.0-2015.5 2015.5-2019.0 2019.0-2022.5 2022.5-2026.0 2026.0-2029.5 2029.5-2033.0 2033.0-2036.5 2036.5-2040.0 2040.0-2043.5 2043.5-2047.0 2047.0-2050.5 2050.5-2054.0 2054.0-2057.5 2057.5-2061.0 2061.0-2064.5 2064.5-2068.0 2068.0-2071.5 2071.5-2075.0 2075.0-2078.5 2078.5-2082.0 2082.0-2085.5 2085.5-2089.0 2089.0-2092.5 2092.5-2096.0 2096.0-2099.5 2099.5-2103.0 2103.0-2106.5 2106.5-2110.0 2110.0-2113.5 2113.5-2117.0 2117.0-2120.5 2120.5-2124.0 2124.0-2127.5 2127.5-2131.0 2131.0-2134.5 2134.5-2138.0 2138.0-2141.5 2141.5-2145.0 2145.0-2148.5 2148.5-2152.0 2152.0-2155.5 2155.5-2159.0 2159.0-2162.5 2162.5-2166.0 2166.0-2170.0 2170.0-2173.5 2173.5-2177.0 2177.0-2180.5 2180.5-2184.0 2184.0-2187.5 2187.5-2191.0 2191.0-2194.5 2194.5-2198.0 2198.0-2201.5 2201.5-2205.0 2205.0-2208.5 2208.5-2212.0 2212.0-2215.5 2215.5-2219.0 2219.0-2222.5 2222.5-2226.0 2226.0-2229.5 2229.5-2233.0 2233.0-2236.5 2236.5-2240.0 2240.0-2243.5 2243.5-2247.0 2247.0-2250.5 2250.5-2254.0 2254.0-2257.5 2257.5-2261.0 2261.0-2264.5 2264.5-2268.0 2268.0-2271.5 2271.5-2275.0 2275.0-2278.5 2278.5-2282.0 2282.0-2285.5 2285.5-2289.0 2289.0-2292.5 2292.5-2296.0 2296.0-2299.5 2299.5-2303.0 2303.0-2306.5 2306.5-2310.0 2310.0-2313.5 2313.5-2317.0 2317.0-2320.5 2320.5-2324.0 2324.0-2327.5 2327.5-2331.0 2331.0-2334.5 2334.5-2338.0 2338.0-2341.5 2341.5-2345.0 2345.0-2348.5 2348.5-2352.0 2352.0-2355.5 2355.5-2359.0 2359.0-2362.5 2362.5-2366.0 2366.0-2370.0 2370.0-2373.5 2373.5-2377.0 2377.0-2380.5 2380.5-2384.0 2384.0-2387.5 2387.5-2391.0 2391.0-2394.5 2394.5-2398.0 2398.0-2401.5 2401.5-2405.0 2405.0-2408.5 2408.5-2412.0 2412.0-2415.5 2415.5-2419.0 2419.0-2422.5 2422.5-2426.0 2426.0-2429.5 2429.5-2433.0 2433.0-2436.5 2436.5-2440.0 2440.0-2443.5 2443.5-2447.0 2447.0-2450.5 2450.5-2454.0 2454.0-2457.5 2457.5-2461.0 2461.0-2464.5 2464.5-2468.0 2468.0-2471.5 2471.5-2475.0 2475.0-2478.5 2478.5-2482.0 2482.0-2485.5 2485.5-2489.0 2489.0-2492.5 2492.5-2496.0 2496.0-2499.5 2499.5-2503.0 2503.0-2506.5 2506.5-2510.0 2510.0-2513.5 2513.5-2517.0 2517.0-2520.5 2520.5-2524.0 2524.0-2527.5 2527.5-2531.0 2531.0-2534.5 2534.5-2538.0 2538.0-2541.5 2541.5-2545.0 2545.0-2548.5 2548.5-2552.0 2552.0-2555.5 2555.5-2559.0 2559.0-2562.5 2562.5-2566.0 2566.0-2570.0 2570.0-2573.5 2573.5-2577.0 2577.0-2580.5 2580.5-2584.0 2584.0-2587.5 2587.5-2591.0 2591.0-2594.5 2594.5-2598.0 2598.0-2601.5 2601.5-2605.0 2605.0-2608.5 2608.5-2612.0 2612.0-2615.5 26								

TABLE 2.36

DATA PERIOD: AUGUST 1970 - 1975
JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

WIND SECTOR	WIND CATEGORY	WIND SPEEDS (METERS/SECOND)					TOTAL	MEAN SPEED
		0-0.5	0.5-1.5	1.5-3.0	3.0-5.0	5.0-7.5		
NNE	0.0	1.2	3.8	6.8	3	0	1.21	4.99
NNE	0.00	*8.3	2.62	4.70	*21	0.00	*5.36	
NNE	0.00	*24	*29	1.65	*0.3	0.0	2.94	3.53
NE	0.00	1.0	2.9	0.0	0	0.0	2.90	
NE	0.00	*6.9	2.01	2.71	0.00	0.00	2.05	
ENE	0.03	*24	2.70	*0.7	0.00	0.00	2.90	3.67
ENE	*21	*6.2	1.66	*2.9	0.00	0.00	2.45	
E	*0.7	*2.2	*5.8	*2.2	0.00	0.00	3.11	
E	0.00	*1.2	2.3	*2	0.00	0.00	2.09	
E	0.00	*8.3	1.59	*4	0.00	0.00	2.42	3.78
ESE	0.02	*2.9	*5.6	*1.7	0.00	0.00	2.90	
ESE	*1.4	1.0	3.9	3.7	0.00	0.00	2.90	4.74
ESE	*0.5	*2.4	2.69	2.56	*1.4	0.00	2.22	
SE	*0.2	*1.9	*9.5	*0.5	0.00	0.00	2.19	
SE	*1.4	*3.1	3.66	0.88	*2.4	0.00	2.06	5.86
SSE	*0.5	*4.6	1.29	2.14	*0.8	*2.1	1.62	
SSE	0.00	*1.3	2.40	2.34	*1.0	0.00	2.00	
S	0.00	*9.0	2.76	4.63	*3.5	*2.7	1.91	
S	*0.3	*32	*97	1.43	*0.3	*1.0	3.84	
S	*2.1	1.15	2.8	3.49	*2.5	*1.0	1.31	6.15
SSE	*0.7	*3.6	1.93	3.38	1.73	*1.7	0.95	
SSE	*0.1	*8	*6.6	1.19	*0.1	*2.7	3.05	
SSE	*0.7	*5.5	1.15	*1.5	*0.8	*0.6	2.18	
SSE	*0.2	*1.9	1.04	2.69	1.38	*0.6	0.97	6.31
SSE	*0.1	*2.9	1.4	*0.5	*1.4	*1.1	0.91	
SSE	*0.2	*6.2	*97	1.86	*3.5	*0.0	3.56	
SSE	*0.2	*22	*34	*6.0	*1.2	*0.0	1.36	
SSE	*0.1	*9	*14	*2	*3	*1.0	3.30	4.34
SSE	*0.7	*6.2	*97	*1.4	*0.5	*0.7	*0.7	
SSE	*0.2	*2.2	*7.4	*0.5	*0.7	*0.7	*0.7	
SSE	*0.3	*6	*1.0	*0.7	*0.7	*0.0	2.27	3.81
SSE	*2.1	*4.1	*6.9	*4.8	*4.8	*0.0	1.86	
SSE	*0.7	*1.5	*2.4	*1.7	*0.2	*0.0	*0.6	
SSE	*0.1	*4.1	1.17	*2.7	*2	*0.0	*0.51	4.96
SSE	*0.7	*4.1	1.17	1.73	*1.4	*0.0	*3.52	
SSE	*0.2	*1.5	*4.1	*1.4	*0.5	*0.0	*1.24	
SSE	*0.1	*3	*6.6	*1.6	*1.4	*0.1	*0.63	5.98
SSE	*0.7	*2.1	1.80	3.18	1.31	*0.7	2.33	
SSE	*0.2	*0.7	*6.3	1.12	*4.6	*0.2	2.18	
SSE	*0.7	*1.0	*38	1.45	1.16	*1.2	1.18	5.21
SSE	*4.8	*6.9	2.62	3.11	1.10	*1.4	*1.15	
SSE	*3.5	*1.7	*5.6	1.09	*3.9	*0.5	2.67	
SSE	*3.5	1.17	3.87	3.43	*1.9	*0.7	4.71	
SSE	*1.2	*4.1	1.36	1.29	*2.2	*0.2	*3.42	
CALM	*4.8	*1.7	1.68	*6.6	*7.2	*4.8	*4.8	
TOTAL	*37	11.60	32.05	39.40	17.6	2.29	14.48	5.27
TOTAL	2.56	11.60	32.05	39.40	17.6	2.00	10.00	
TOTAL	*90	4.08	11.27	13.89	4.32	*70	35.16	

KEY XXX NUMBER OF OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.37

STABILITY CLASS: PASQUILL E
 DATA SOURCE: ON-SITE
 DATA SOURCE METRIC: 10.67 METERS
 WIND SECTOR METRIC: 14.77
 DATE OF REVIEWED: 05/14/77. 11-40-53.
 COOP# 441454 STATION NO: 7645-001-07
 NMRA: NEBRASKA PUBLIC POWER DISTRICT
 NMRA AND MOWE JOB NO: 7645-001-07

SECTION		SPEED		CATEGORY		MEAN SPEED		TOTAL	
		0-0.15	1.5-3.0	3-0.5	3-0.0	5-0.7-5	7-5	7-5-10.0	>10.0
None	3	2.22	2.24	0	0	0	0	4.9	2.92
	*2.9	2.13	2.52	0.00	0.00	0.00	0.00	4.74	
	*2.7	2.58	2.58	0.00	0.00	0.00	0.00	1.19	
NE	*3.4	1.74	3.4	0.00	0.00	0.00	0.00	2.51	2.24
	*1.0	-4.4	-1.0	0.00	0.00	0.00	0.00	0.63	
	*1.5	-1.2	-3	0.00	0.00	0.00	0.00	2.0	2.20
ENE	*4.8	1.16	2.9	0.00	0.00	0.00	0.00	1.43	
	*1.2	-2.9	-10	0.00	0.00	0.00	0.00	2.46	
	*3.4	-2.4	-10	0.00	0.00	0.00	0.00	3.77	
E	*3.9	2.32	9.7	1.0	0.00	0.00	0.00	3.77	
	*1.0	-5.9	-2.4	0.2	0.00	0.00	0.00	3.74	
	*5.6	1.74	4.46	1.16	1.16	1.16	1.16	8.12	
	*1.7	-4.4	-1.2	-2.9	-0.5	-0.5	-0.5	2.04	
	*1.5	-1.8	-7.0	-2.6	-3.4	-3.4	-3.4	4.07	
SE	*3.4	1.74	6.77	2.51	-3.9	-3.9	-3.9	1.80	
	*1.0	-4.4	1.70	-6.3	-10	-10	-10	2.96	
	*3.9	-2.4	-10	0.00	0.00	0.00	0.00	3.77	
SSSE	*6.6	2.30	6.76	1.44	-2.9	-2.9	-2.9	12.48	
	*1.5	-7.0	1.75	-4.6	-0.7	-0.7	-0.7	3.13	
	*1.9	-7.0	-5.3	-2.3	-1.1	-1.1	-1.1	4.21	
S	*8.7	2.61	5.13	2.03	1.06	1.06	1.06	11.80	
	*2.2	-1.6	1.19	-2.4	-2.7	-2.7	-2.7	2.96	
	*3.4	-1.6	-6.1	-2.4	-0.2	-0.2	-0.2	1.12	
SSSW	*3.9	1.74	5.90	2.80	0.00	0.00	0.00	10.53	
	*1.0	-4.4	1.48	-2.2	0.00	0.00	0.00	2.72	
	*2.0	-9	-2.2	-7.8	0.00	0.00	0.00	4.41	
	*1.9	-8.7	-2.3	-7.7	0.00	0.00	0.00	3.84	
	*0.5	-2.2	-5.3	-1.9	0.00	0.00	0.00	3.97	
SSSW	*0.5	-2.2	-9	-1.1	0.00	0.00	0.00	1.00	
	*1.9	-1.9	-8.7	-8.7	-1.0	-1.0	-1.0	2.96	
	*0.5	-1.2	-2.2	-2.2	0.00	0.00	0.00	2.03	
	*3.4	1.3	1.6	0.8	0.00	0.00	0.00	2.51	
	*3.9	-2.6	-1.5	-3.9	0.00	0.00	0.00	3.77	
	*1.0	-3.2	-3.9	-1.5	0.00	0.00	0.00	3.77	
	*1.9	-9	-2.5	-1.1	0.00	0.00	0.00	3.58	
	*1.9	-4.7	-2.4	-1.0	0.00	0.00	0.00	3.28	
	*0.5	-2.2	-6.1	-0.2	0.00	0.00	0.00	4.48	
NNN	*0.5	-1.3	-2.5	-1.3	0.00	0.00	0.00	2.67	
	*4.8	1.26	2.42	1.0	-3.9	-3.9	-3.9	4.64	
	*1.2	-3.2	-0.1	-0.1	-1.0	-1.0	-1.0	1.17	
	*1.4	-2.4	-2.9	-0.4	0.00	0.00	0.00	5.58	
NNNN	*1.0	-3.2	-2.80	-3.4	0.00	0.00	0.00	5.61	
	*0.2	-1.8	-7.0	-1.0	0.00	0.00	0.00	1.41	
N	*5.6	2.51	3.2	-1.2	0.00	0.00	0.00	6.68	
	*1.5	-6.8	3.04	-1.9	0.00	0.00	0.00	1.65	
	*1.9	-6.8	-7.8	-0.5	0.00	0.00	0.00	1.19	
CALM	1.84	2.91	4.50	1.31	1.84	1.84	1.84	3.55	
TOTAL	8.86	2.87	4.84	2.24	12.67	2.32	1.0	10.34	
	2.09	7.07	3.18	3.18	3.58	2.52	0.02	25.11	

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.38

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: APRIL 1960 - 1975

WIND SECTOR	WIND SPEED CATEGORIES IN M/S					<5000		>5000		TOTAL	MEAN SPEED
	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	>7.5	<5000	>5000	<5000	>5000		
NNE	5	1	2	0	0	0	0	0	0	8	2.27
NE	1.78	36	71	0	0	0	0	0	0	85	2.27
NE	1.12	42	45	0	0	0	0	0	0	19	2.27
NE	0.00	1.07	0	0	0	0	0	0	0	7	2.27
ENE	0.00	0.7	0	0	0	0	0	0	0	7	2.27
ENE	0.00	2	0	0	0	0	0	0	0	7	2.27
NE	0.00	71	0	0	0	0	0	0	0	71	2.27
E	0.00	5	0	0	0	0	0	0	0	5	2.27
E	1.78	1.78	0	0	0	0	0	0	0	6	2.27
ESE	0.02	1.12	0	0	0	0	0	0	0	15	2.27
ESE	2.14	72	36	0	0	0	0	0	0	98	2.27
ESE	2.15	0.5	0.2	0	0	0	0	0	0	20	2.27
SE	0.00	3.11	1.6	0	0	0	0	0	0	17	2.27
SE	0.00	3.01	2.14	0	0	0	0	0	0	17	2.27
SE	0.00	2.77	2.15	0	0	0	0	0	0	17	2.27
SSE	0.00	1.4	0	0	0	0	0	0	0	41	2.27
SSE	1.71	4.98	1.42	1.10	0.2	0.65	7.1	0.90	0.90	19	2.27
SSE	0.05	3.34	1.10	0.2	0	0	0	0	0	18	2.27
S	0.00	3.36	1.17	3.20	0	0	0	0	0	20	2.27
SSE	0.02	4.80	2.22	0.00	0	0	0	0	0	17	2.27
SSE	0.00	2.77	2.77	0	0	0	0	0	0	33	2.27
SSE	0.00	9.61	3.20	0.30	0.09	0.09	0.90	0.90	0.90	19	2.27
SE	1.07	4.77	2.49	0.00	0	0	0	0	0	56	2.27
SE	0.07	2.29	1.17	0.62	0	0	1	0.90	0.90	44	2.27
SE	0.00	4.00	1.4	0.9	0	0	0	0	0	66	2.27
SE	0.00	4.98	1.42	0.60	0	0	0	0	0	67	2.27
SE	0.00	3.34	1.0	0.0	0	0	0	0	0	36	2.27
SE	0.02	3.11	1.03	0.7	0	0	0	0	0	67	2.27
SE	0.71	3.91	1.07	0.00	0	0	0	0	0	83	2.27
SE	0.05	2.27	0.07	0.40	0	0	0	0	0	39	2.27
SE	0.00	2.88	0.3	0.0	0	0	0	0	0	14	2.27
SE	1.07	2.85	1.07	0.00	0	0	0	0	0	98	2.27
SE	0.07	2.19	0.07	0.00	0	0	0	0	0	41	2.27
SE	0.00	3.4	1.0	0.0	0	0	0	0	0	44	2.27
SE	0.00	2.12	0.7	0.0	0	0	0	0	0	31	2.27
SE	0.71	3.12	0.2	0	0	0	0	0	0	69	2.27
SE	0.05	1.12	0.4	0	0	0	0	0	0	39	2.27
SE	1.78	4.27	1.42	0.60	0	0	0	0	0	87	2.27
SE	1.12	2.29	1.10	0.00	0	0	0	0	0	51	2.27
N	1.78	2.85	1.42	1.14	0	0	0	0	0	18	2.27
N	1.78	2.85	1.42	0.70	0	0	0	0	0	18	2.27
CALM	1.12	0.19	0.10	0.02	0	0	0	0	0	10	2.27
CALM	3.56	0	0	0	0	0	0	0	0	56	2.27
TOTAL	1.48	171	57	27	3	0	0	0	0	281	2.27
TOTAL	1.08	60.85	20.28	7.7	1.07	0	0	0	0	100.00	2.27
TOTAL	1.17	4.15	1.38	0.08	0	0	0	0	0	6.82	2.27

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.39

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		COOPED MURFREESBORO STATION	
DATA PERIOD: April 1970 - July 1975		NAME: MURFREESBORO, TENNESSEE	
STABILITY CLASS: PASSIVE, 6		NAME: NASHVILLE, TENNESSEE	
DATA SOURCE: ON-SITE		NAME: PUBLIC POWER DISTRICT	
WIND SEASON:	10.67 MEFFRS	NAME: NASHVILLE, TENNESSEE	JOB NO.: 7635-001-07
TABLE GENERATED:	05/14/77. 11.46, S3.	NAME: AND MONTH	
WIND	WIND SPEED CATEGORIES MEFFRS PER SECOND	MEAN	STDEV
SECTOR	0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0	MEAN	STDEV
NONE	1.49 *0.5	1 *0.2	0 *0.0
NE	0.00 0.00	0.00 0.00	0.00 0.00
ENE	0.00 0.00	0.00 0.00	0.00 0.00
E	0.00 *0.1 *0.2	0.00 0.00 0.00	0.00 0.00 0.00
ESE	2.24 *0.7	0.00 0.00	0.00 0.00
SE	1.5 *0.2	0.00 0.00	0.00 0.00
SSW	*0.1 *0.2	0.00 0.00	0.00 0.00
S	2.24 *0.7	1.1 0.00	1.1 0.00
WSW	*0.1 *0.2	1.1 0.00	1.1 0.00
W	3.73 *0.2	2.99 0.00	2.99 0.00
WNW	*0.2 *0.3	1.49 0.00	1.49 0.00
TOTAL	33.58 1.09	50.67 1.63	14.93 *4.9 0.00 *0.5

KEY

XXX NUMBER OF OCCURRENCES

XXX PERCENT OCCURRENCES THIS CLASS

XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.40

VALID WIND FREQUENCY 1970-1979 BY STABILITY CLASS

ALL CLASSES										COOPER NUTT FAIR STATION	
WIND SOURCE: ON-SITE WIND SENSOR HEIGHT: 10.57 METERS TABLE GENERATED: 05/18/77. 11:46:53.										NEBRASKA, NEBRASKA NEBRASKA PUBLIC POWER DISTRICT DAMES AND MUSKEE JOB NO: 7635-001-07	
WIND SECTOR	0.0-1.5 0.0-3.0	1.5-3.0 3.0-5.0	5.0-7.5 7.5-10.0	10.0- >10.0	MEAN SPEED	TOTAL OCCURRENCES	MEAN SPEED	TOTAL OCCURRENCES	MEAN SPEED	TOTAL OCCURRENCES	MEAN SPEED
NNE	10 -24	54 1.31	89 2.16	106 2.62	3.2	32	3.2	295	4.42	7.16	4.42
NE	-4 -10	40 -97	44 1.07	16 -3.9	0.0	0.0	0.0	104	3.41	2.53	2.53
ENE	8 -14	29 -70	37 -90	9 -22	0.0	0.0	0.0	83	3.25	2.02	2.02
E	6 -15	45 -0.9	41 1.00	22 -5.3	1	0.0	0.0	115	3.49	2.74	2.74
ENE	18 -44	35 -85	97 2.36	6.3 1.53	1.0	0.0	0.0	219	4.23	5.32	5.32
SE	7 -17	64 1.55	149 3.59	136 3.25	6.0	4	4	417	5.10	10.13	10.13
SSE	14 -34	69 1.69	145 3.52	122 2.95	4.3	4	4	397	4.79	5.64	5.64
S	18 -44	91 2.31	105 2.55	98 2.38	6.6	22	22	400	5.13	9.71	9.71
SSW	6 -15	66 1.66	105 2.55	92 2.23	4.0	4.0	4.0	337	5.42	6.18	6.18
SW	8 -19	40 -97	53 1.29	74 1.80	7.0	2.9	8	212	5.20	5.15	5.15
WSW	10 -24	38 -92	38 -92	25 -6.1	1.0	1.0	1.0	126	4.33	3.06	3.06
W	36 -39	40 -97	47 1.14	77 -7.0	1.7	1.7	1.7	140	3.84	3.40	3.40
WNW	10 -24	28 -68	69 1.68	41 1.00	1.4	1.5	1.5	167	4.61	4.66	4.66
NW	12 -32	28 -68	77 1.67	96 2.33	1.41	2.3	2.3	294	5.97	7.14	7.14
NW	16 -39	53 1.29	94 2.28	111 2.0	5.9	1.4	1.4	352	5.49	6.55	6.55
N	22 -53	70 1.70	139 3.38	131 3.18	4.6	4.6	4.6	416	4.40	10.10	10.10
CALM	84 1.07									1.07	1.07
TOTAL	230 5.54	794 19.24	1328 32.44	1171 28.44	4.71	11.44	3.24	8118	4.45	100.00	4.45

NUMBER OF VALID OBSERVATIONS * 118
 NUMBER OF INVALID OBSERVATIONS * 262
 TOTAL NUMBER OF OBSERVATIONS * 370
 KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

TABLE 2.43

JOINT WIND FREQUENCY DISTRIBUTION BY STATION CLASS									
		STABILITY CLASS: PASSAULL C		DATA SOURCE: ON-SITE		COOPED NUCLEAR STATION		NEWARK, NEW JERSEY	
		WIND SENSOR HEIGHT: 10.67 METERS		WEHADKA PUBLIC POWER DISTRICT		DATE AND SOURCE: JUN 1977		JOB NO: P635-001-07	
WIND		WIND SPEED	CATEGORY(S) PER SECOND	PER SECOND	PER SECOND	PER SECOND	PER SECOND	PER SECOND	TOTAL
SECTOR	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.0	7.0-10.0	10.0-12.0	12.0-14.0	14.0-16.0	MEAN SPEED
NNE	0	2	5	4	0	0	0	0	4.55
NNE	0.0-0.5	*.91	2.28	1.63	0.00	0.00	0.00	0.00	5.02
NNE	0.5-1.0	*.07	*.12	*.09	0.00	0.00	0.00	0.00	*.26
NNE	1.0-1.5	*.01	1.31	*.1	0.00	0.00	0.00	0.00	3.92
NNE	1.5-2.0	*.66	1.32	*.46	0.00	0.00	0.00	0.00	2.28
NNE	2.0-2.5	*.02	*.02	*.02	0.00	0.00	0.00	0.00	*.12
ENE	1	*.02	0	0	0.00	0.00	0.00	0.00	3.32
ENE	*.46	*.91	3.20	0.00	0.00	0.00	0.00	0.00	4.57
E	*.02	*.05	*.17	0.00	0.00	0.00	0.00	0.00	*.24
E	0.0-0.5	0	2.28	0.00	0.00	0.00	0.00	0.00	3.68
ESE	0.0-0.5	*.02	*.12	0	0.00	0.00	0.00	0.00	2.74
ESE	0.5-1.0	*.01	0	0	0.00	0.00	0.00	0.00	*.14
ESE	1.0-1.5	*.46	0.00	1	0.00	0.00	0.00	0.00	3.91
ESE	1.5-2.0	*.02	0.00	*.46	0.00	0.00	0.00	0.00	*.92
SE	0.0-0.5	0	0	*.02	0.00	0.00	0.00	0.00	*.05
SE	0.0-0.5	0	0	2.28	4.12	*.46	0.00	0.00	7.16
SSE	0.0-0.5	0	0	*.12	*.14	*.02	0.00	0.00	7.31
SSE	0.5-1.0	1	1.4	*.7	*.1	0.00	0.00	0.00	*.38
SSE	1.0-1.5	*.83	1.83	3.29	*.46	0.00	0.00	0.00	5.35
SSE	1.5-2.0	*.02	*.09	*.17	*.02	0.00	0.00	0.00	*.94
S	0.0-0.5	*.02	0	1.0	*.14	*.02	0.00	0.00	*.31
S	0.0-0.5	0	0	*.27	0.22	1.4	0.00	0.00	5.87
SSE	0.0-0.5	0	0	*.24	*.43	*.02	0.00	0.00	*.61
SSE	0.5-1.0	*.46	1.4	*.14	*.14	*.02	0.00	0.00	*.38
SSE	1.0-1.5	*.02	*.09	*.14	*.02	0.00	0.00	0.00	*.13
SSE	1.5-2.0	*.1	*.09	*.11	*.21	0.00	0.00	0.00	5.94
SSE	2.0-2.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	*.32
SSW	0.0-0.5	0	0	*.27	0.22	1.4	0.00	0.00	*.61
SSW	0.0-0.5	0	0	*.24	*.43	*.02	0.00	0.00	*.38
SSW	0.5-1.0	*.46	1.4	*.14	*.14	*.02	0.00	0.00	*.13
SSW	1.0-1.5	*.02	*.09	*.14	*.21	0.00	0.00	0.00	5.94
SSW	1.5-2.0	*.1	*.09	*.11	*.21	0.00	0.00	0.00	*.32
SSW	2.0-2.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	2.5-3.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	3.0-3.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	3.5-4.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	4.0-4.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	4.5-5.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	5.0-5.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	5.5-6.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	6.0-6.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	6.5-7.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	7.0-7.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	7.5-8.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	8.0-8.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	8.5-9.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	9.0-9.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	9.5-10.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	10.0-10.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	10.5-11.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	11.0-11.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	11.5-12.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	12.0-12.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	12.5-13.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	13.0-13.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	13.5-14.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	14.0-14.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	14.5-15.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	15.0-15.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	15.5-16.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	16.0-16.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	16.5-17.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	17.0-17.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	17.5-18.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	18.0-18.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	18.5-19.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	19.0-19.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	19.5-20.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	20.0-20.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	20.5-21.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	21.0-21.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	21.5-22.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	22.0-22.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	22.5-23.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	23.0-23.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	23.5-24.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	24.0-24.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	24.5-25.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	25.0-25.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	25.5-26.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	26.0-26.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	26.5-27.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	27.0-27.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	27.5-28.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	28.0-28.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	28.5-29.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	29.0-29.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	29.5-30.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	30.0-30.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	30.5-31.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	31.0-31.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	31.5-32.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	32.0-32.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	32.5-33.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	33.0-33.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	33.5-34.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	34.0-34.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	34.5-35.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	35.0-35.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	35.5-36.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	36.0-36.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	36.5-37.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	37.0-37.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	37.5-38.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	38.0-38.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	38.5-39.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	39.0-39.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	39.5-40.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	40.0-40.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	40.5-41.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	41.0-41.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	41.5-42.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	42.0-42.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	42.5-43.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32
SSW	43.0-43.5	*.46	2.28	*.1	*.11	0.00	0.00	0.00	5.94
SSW	43.5-44.0	*.02	*.09	*.14	*.21	0.00	0.00	0.00	*.32

TABLE 2.44

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: MAY 1970 - 1975

WIND SECTION	JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS					TOTAL	MEAN SPEED
	0.0-1.5 1.5-3.0	3.0-5.0 5.0-7.5	5.0-10.0 7.5-10.0	10.0- >10.0	TOTAL		
STABILITY CLASS: PASCUILL D							
NNE	3	1.8	.44	.25	0	0	4.11
NE	*2.1	1.29	3.14	1.79	0.00	0.00	6.43
	*0.7	*4.3	1.04	*5.9	0.00	0.00	2.13
NE		2.0	1.30	1.0	0	0	6.61
	*0.7	1.43	2.71	*7.1	0.00	0.00	3.67
	*0.2	*4.7	*2.4	*2.8	0.00	0.00	1.44
ENE		1.7	1.74	*1.3	0	0	2.55
	*2.0	1.71	*9.3	*0.7	0.00	0.00	3.21
	*1.7	*1.7	*3.1	*0.2	0.00	0.00	1.96
E		*8	*2.9	*3.9	0	0	3.07
	*3.7	2.07	2.79	*2.1	0.00	0.00	5.64
	*1.9	*6.9	*9.2	*0.7	0.00	0.00	1.67
EE		*5.8	1.18	*1.9	0.1	0.00	6.07
	*5.7	1.29	2.79	1.16	*0.7	0.00	3.43
	*1.9	*4.3	*9.2	*0.2	0.00	0.00	1.01
SE		*3.3	*1.7	*7.1	*5.6	0	4.59
	*2.1	1.21	5.07	*1.0	*2.9	0.00	10.79
SSE		*6	*2.0	*1.2	*0.9	0.00	3.57
	*4.3	1.93	2.00	*3.4	*2.3	0.00	4.29
S		*1.4	*6.4	*6.6	*1.04	*0.7	7.71
	*2.3	*3.2	*6.3	*3.9	*1.6	0.00	4.51
	*0.7	2.79	4.50	2.79	*1.4	0.00	10.93
SSW		*6	*7.6	*1.49	*9.2	*3.6	3.61
	*4.3	1.19	*1.27	*4.9	*2.1	0	5.20
	*1.4	1.36	1.93	*5.0	*1.50	0.00	8.71
SW		*2	*1.4	*6.4	*1.16	*0.50	2.68
	*1.5	*7.9	*1.64	*2.3	*1.0	0.00	5.81
	*4	*2.6	*5.4	*2.3	*2.3	0.00	5.79
WSW		*2.9	*3	*2.0	*0.5	0.00	1.91
	*0.9	*1.3	*1.43	*1.43	*0.7	0.00	3.23
	*0.2	*1	*1	*1.47	*0.7	0.00	2.86
W		*0.2	*1.3	*1.9	*0.3	0.00	2.94
	*0.2	*1.43	*1.36	*2.1	*1.0	0.00	2.93
	*0.2	*3.1	*4.5	*0.7	*1.2	0.00	4.97
WNW		*1.4	*3.0	*1.4	*1.4	*0.5	4.75
	*0.5	*4.3	*1.43	*1.30	*3.0	*0.00	3.36
	*0.2	*1.6	*3.8	*3.3	*2.6	0.00	1.11
NW		*1.2	*1.4	*2.71	*0.0	*2.1	4.44
	*0.5	*1.8	*2.9	*0.0	*0.7	0.00	2.21
	*0.2	*1.6	*3.4	*3.2	*0.1	0.00	2.00
WNW		*0.7	*1.4	*2.43	*2.29	*0.1	4.60
	*0.2	*3.8	*6.0	*7.0	*0.2	*2.1	6.21
N		*2	*1.9	*3.71	*2.93	*0.1	2.06
	*1.4	*3.6	*3.71	*1.23	*0.7	0.00	4.40
	*0.5	*4.5	*1.23	*0.7	*0.2	0.00	8.15
CALM		*5.7	*1.9	2.98	560	70	5
	*0.7	*7.9	*2.79	*0.0	*28	*56	1.00
	1.58	*7.04	1.3	*2.3	*9.45	1.65	3.30
TOTAL							4.24

KEY XXX NUMBER OF OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.45

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		COOPED NUC FARM STATION					
DATA PERIOD: MAY 1970 - 1975		SF MARK 1 CLOTHESLINE POINT DISTRICT					
STABILITY CLASS: PASQUILL E		WIND SPEEDS AND MODES JOB NO: 763-001-07					
DATA SOURCE: ON-SITE	METEOROLOGICAL HEIGHT: 10.67 METERS	WIND SPEEDS	CATEGORIES	MEAN SPEED	STD. DEV.	TOTAL	MEAN SPEED
WIND SENSORS HEIGHT: 65/14/77 11.44, 29.	TABLE GENERATED: 05/14/77	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0+
SECTOR	ANGLE	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	TOTAL
NNE	5	20	2	1	1	0	29
NNE	*50	2.01	*2.0	*1.0	0.0	0.0	2.51
NNE	*12	*4.7	*0.2	*0.2	0.0	0.0	2.91
NNE	*9	1.20	*1.0	0.0	0.0	0.0	1.49
NNE	*20	*2.8	*0.0	0.0	0.0	0.0	2.22
NNE	*21	*2.0	*0.2	0.0	0.0	0.0	2.21
NNE	1.41	2.01	7.7	0.0	0.0	0.0	5.52
NNE	*33	*4.7	*7.0	0.0	0.0	0.0	4.18
E	*8	1.19	7.7	0.0	0.0	0.0	4.12
E	*80	1.91	*1.7	0.0	0.0	0.0	3.48
E	*19	*4.5	*1.7	0.0	0.0	0.0	2.26
ESE	*6	1.19	*2.8	0.0	0.0	0.0	3.41
ESE	*60	1.91	2.8	0.0	0.0	0.0	3.80
ESE	*14	*4.5	*0.6	0.0	0.0	0.0	5.53
SE	*4	*3.2	*0.6	0.0	0.0	0.0	2.75
SE	*40	3.21	*7.2	0.0	0.0	0.0	3.32
SE	*9	*7.5	1.1	*2.0	*1.0	0.0	3.26
SSE	*6	*50	*3.4	1.11	0.3	0.0	6.63
SSE	*60	5.12	3.41	1.19	0.3	0.0	10.04
SSE	*14	1.18	*8.0	*2.6	*3.0	0.0	3.31
S	1.09	4.62	5.72	*0.9	*0.2	0.0	10.44
S	*24	1.09	1.35	*0.0	*0.0	0.0	2.46
SSE	*10	*3.7	*0.5	*0.2	*0.0	0.0	3.17
SSE	1.00	3.71	6.83	*5.0	*3.0	0.0	12.44
SSE	*24	*87	1.61	*1.2	*0.7	0.0	1.25
SSE	8	29	4.0	*1.9	*0.0	0.0	4.45
SSE	*80	2.91	*0.2	*0.0	*0.0	0.0	2.93
SSE	*19	*6.9	*0.6	*0.0	*0.0	0.0	3.38
SSE	*2	*1.5	*1.2	*1.1	*0.5	0.0	3.01
SSE	*20	1.51	1.20	*1.0	*0.0	0.0	3.01
SSE	*33	*3.3	*2.8	*0.2	*0.0	0.0	7.11
SSE	1.0	*1.7	*0.8	*0.0	*0.0	0.0	3.35
SSE	1.00	1.71	*0.0	*0.0	*0.0	0.0	3.51
SSE	*24	*4.0	*1.9	*0.0	*0.0	0.0	8.86
SSE	*1	*1.7	*1.4	*0.0	*0.0	0.0	3.32
SSE	*10	1.71	*4.1	*2.0	*0.0	0.0	12.45
SSE	*2	*4.0	*3.3	*0.5	*0.0	0.0	3.03
SSE	*3	*1.2	*2.1	*2.0	*0.0	0.0	3.01
SSE	*30	1.20	*2.1	*0.0	*0.0	0.0	3.82
SSE	*7	*2.8	*3.0	*0.7	*0.0	0.0	3.34
SSE	1.1	*3.4	*2.3	*0.7	*0.0	0.0	3.51
SSE	1.10	3.41	2.31	*1.0	*1.0	0.0	7.0
SSE	*26	*8.0	*5.4	*0.2	*0.2	0.0	1.05
SSE	*10	*3.4	*2.6	*0.4	*1.0	0.0	2.74
SSE	1.00	3.41	2.61	*1.0	*1.0	0.0	7.23
SSE	*24	*8.0	*6.1	*0.2	*0.2	0.0	1.70
SSE	CALM	1.51	1.51	*0.0	*0.0	0.0	1.51
TOTAL	13.2	*41.3	39.5	4.4	1.2	0	3.56
TOTAL	13.25	*41.47	39.56	4.42	1.20	0.0	3.96
TOTAL	13.12	9.76	9.33	1.04	0.28	0.0	2.94

KEY
 XXX NUMBER OF OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.46

JOINT FINANCIAL DISCLOSURE BY STATE AND CLASS

STABILITY CLASS: PASQUILL F
DATA SOURCE: ON-TIME
WIND SEWSOR HEIGHT: 10.67 METERS
TABLE NUMBER: 05/14/77.
COUPLED NUCLEAR STATIONS
NEBRASKA PUBLIC POWER DISTRICT
DANE AND MADAWA 763-001-07

WIND SECTOR	0-0-15°	15-30°	30-45°	45-60°	60-75°	75-90°	>10.0	TOTAL	
								MEAN SPEED	CATEGORIES
NNE	1.03	1.3	3.35	0.00	0.00	0.00	0.00	1.7	1.83
	+0.9	*3.1	0.00	0.00	0.00	0.00	0.00	*4.0	
NE	1.7	1.03	0.00	0.00	0.00	0.00	0.00	1.80	1.40
	+0.7	*0.9	0.00	0.00	0.00	0.00	0.00	-1.7	
ENE	1.04	1.3	0.00	0.00	0.00	0.00	0.00	1.7	1.37
	+0.3	*1.7	0.00	0.00	0.00	0.00	0.00	-1.0	
EE	1.09	0.7	0.00	0.00	0.00	0.00	0.00	1.17	1.24
	+0.4	*0.7	0.00	0.00	0.00	0.00	0.00	-1.7	
E	1.03	0.0	0.00	0.00	0.00	0.00	0.00	1.03	1.24
	+0.9	0.00	0.00	0.00	0.00	0.00	0.00	-0.9	
ESE	2.06	1.55	0.00	0.00	0.00	0.00	0.00	1.14	1.41
	+1.9	*1.4	0.00	0.00	0.00	0.00	0.00	-3.1	
SE	1.80	5.67	0.00	0.00	0.00	0.00	0.00	2.9	1.94
	+1.8	*5.2	0.00	0.00	0.00	0.00	0.00	-7.4	
SSSE	2.06	10.49	2.26	0.00	0.00	0.00	0.00	12.63	1.96
	+1.9	*9.4	*0.2	0.00	0.00	0.00	0.00	-1.16	
S	1.15	*3.1	*3	0.00	0.00	0.00	0.00	1.51	2.06
	*3.87	7.99	*7.7	5.2	0.00	0.00	0.00	-13.14	
SSSW	1.10	*3.5	*0.7	*0.7	0.00	0.00	0.00	-1.0	2.13
	*2.58	5.0	2.0	0.00	0.00	0.00	0.00	-3.7	
SSW	1.04	*2.4	*4.7	*1.17	0.00	0.00	0.00	-4.54	2.73
	*1.03	3.35	1.29	0.00	0.00	0.00	0.00	-5.93	
WSW	1.09	*1.7	*3.1	*1.12	0.00	*0.2	0.00	-5.54	2.25
	*1.80	2.32	1.29	0.00	0.00	0.00	0.00	-2.1	
W	1.17	*1.7	*2.1	*1.12	0.00	0.00	0.00	-5.41	2.18
	*2.06	2.06	1.03	0.00	0.00	0.00	0.00	-1.3	
WNW	0.92	*1.9	*0.9	0.00	0.00	0.00	0.00	-3.3	2.65
	*2.02	2.58	2.06	0.00	0.00	0.00	0.00	-5.20	
WWN	0.52	*0.5	*2.4	*1.19	0.00	0.00	0.00	-5.15	2.18
	*0.5	*1.9	1.5	0.00	0.00	0.00	0.00	-3.47	
NNW	2.06	4.90	1.29	0.00	0.00	0.00	0.00	-8.25	2.56
	+1.9	*4.5	*1	0.00	0.00	0.00	0.00	-7.6	
NNW	2.39	2.32	1.0	0.00	0.00	0.00	0.00	-5.20	1.79
	+2.32	*2.58	*2.26	0.00	0.00	0.00	0.00	-5.15	
N	2.31	2.0	*2.02	0.00	0.00	0.00	0.00	-4.47	1.80
	+2.58	4.38	*1.7	0.00	0.00	0.00	0.00	-2.9	
CALM	2.24	*4.0	*5.2	0.00	0.00	0.00	0.00	-7.47	1.97
	+3.87	5.7225	*4.1	0.00	0.00	0.00	0.00	-3.87	
TOTAL	3.19	3.35	2.25	1	1	1	0.00	3.88	1.97
	30.67	57.49	10.52	*4.2	*4.2	*4.2	0.00	10.92	0.00
	2.81	5.52	2.82	*0.7	*0.7	*0.7	0.00	0.00	0.00

KEY XXX NUMBER OF OCCURRENCES

TABLE 2.47

JOINT PREDICTION FREQUENCY DISTRIBUTION BY STATION AND CLIMATE

STABILITY CLASS: PASQUILL G
DATA SOURCE: ON-SITE 6
WIND SEYNSON HEIGHT: 107.7 METERS
DATE GENERATED: 05/14/76 11:49:29.
NAME AND NUMBER: KANSAS CITY PUBLIC POWER DISTRICT NO. 1
COUPLED NUCLEAR FABRICATION

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCE ALL CLASSES

TABLE 2.48

JOINT INDUSTRIAL DISPUTATION ACT

TABLE 2.49

GOLDWATER-PALMER

STABILITY CLASS: PASSABLE
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10' METERS
TABLE GENERATED: 05/16/27
CHAMPS MURFET STATION
NEBRASKA PUBLIC POWER DISTRICT
MANAGERS AND OWNERS (NAME): 7685-001-07

TABLE 2.50

DATA PERIOD: JUNE 1970 - 1975
STABILITY CLASS: PASO AULL, H

DATA SOURCE: On-Site
WIND SENSOR HEIGHT: 10.0'
TABLE GENERATED: 05/14/77; 11.57.05.

WIND SECTION	0.0-1.5 0.0-3.0 1.5-3.0 3.0-5.0	SPEED CATEGORY	MEAN SECONDS	MEAN SECONDS	TOTAL		
					0-0.75	0.75-1.0	1.0-1.25
NNE	0.00	0.00	0	0	0	0	0
NNE	0.00	0.00	0.0	0.0	0.0	0.0	0.0
NE	0.00	1.67	1.67	0.0	0.0	0.0	0.0
NE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
E	0.00	0.0	0.0	0.0	0.0	0.0	0.0
E	0.00	2.50	1.67	0.0	0.0	0.0	0.0
ESE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.00	0.0	0.0	0.0	0.0	0.0	0.0
S	0.00	0.0	0.0	0.0	0.0	0.0	0.0
S	0.00	2.50	1.00	0.0	0.0	0.0	0.0
SSW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
W	0.00	0.0	0.0	0.0	0.0	0.0	0.0
W	0.00	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.00	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.00	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.50	16.20	4.3.52	32.39	6	0.0	0.0
TOTAL	2.09	16.57	4.3.53	32.31	6	0.00	0.00

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.51

JOINT EFFICIENCY DISTRIBUTION BY STATE PROPERTY CLASS

TABLE 2.52

POINT MIND-FREQUENCY DISTRIBUTION AT STABILITY CLASSES

TABLE 2.53

DATA PERIOD: JUNE 1970 - 1975		STABILITY CLASS		COPIED FROM STATION		COPIED FROM STATION		MEAN SPEED	
STABILITY CLASS: PEGUILLÉ		WIND SOURCE: ON-SITE		ON-SITE PUBLIC DATA AND PRIVATE DATA		ON-SITE PUBLIC DATA AND PRIVATE DATA		MEAN SPEED	
WIND SPEED: MEAN: 10.67 METERS		WIND SPEED: MEAN: 10.67 METERS		DAYS AND JOBS NO.: T635-001-07		DAYS AND JOBS NO.: T635-001-07		MEAN SPEED	
**NO.	SI.C100	0.0-1.5	1.5-3.0	SPEED CATEGORIES	MEANS IN SECONDS	SPEED CATEGORIES	MEANS IN SECONDS	TOTAL	MEAN SPEED
NAME		7	24	15	0	0	0	46	2.57
NNE	*68	2.34	1.46	0.00	0.00	0.00	0.00	4.49	1.33
NE	*20	2.70	4.4	0.00	0.00	0.00	0.00	1.28	2.42
ENE	*6	1.19	3	0.00	0.00	0.00	0.00	0.73	0.91
E	*59	1.65	2.4	0.00	0.00	0.00	0.00	0.47	2.63
EE	*87	2.55	0.9	0.00	0.00	0.00	0.00	0.47	2.63
NEE	*34	2.9	1.4	0.00	0.00	0.00	0.00	0.54	2.54
NE	*32	2.83	1.37	0.00	0.00	0.00	0.00	1.36	2.15
E	*12	2.27	4.1	0.00	0.00	0.00	0.00	3.32	2.15
CE	*23	2.63	2.0	0.00	0.00	0.00	0.00	3.12	2.15
C	*29	2.63	2.0	0.00	0.00	0.00	0.00	3.12	2.15
CC	*09	2.78	0.6	0.00	0.00	0.00	0.00	0.93	2.22
CEE	*78	6.61	4	0.00	0.00	0.00	0.00	5.3	2.22
EE	*78	6.00	3.9	0.00	0.00	0.00	0.00	5.17	2.22
SE	*28	1.19	3.0	0.00	0.00	0.00	0.00	1.54	2.54
SE	*23	1.19	1.2	0.00	0.00	0.00	0.00	1.36	2.15
SE	1.07	1.49	2.9	0.00	0.00	0.00	0.00	1.36	2.15
SSSE	*32	1.33	8.4	0.3	0.00	0.00	0.00	8.49	2.52
SSSE	1.34	6.63	4.7	0.00	0.00	0.00	0.00	12.68	2.69
SSSE	1.37	6.15	4.79	0.00	0.00	0.00	0.00	12.24	2.69
S	*21	1.83	1.36	0.00	0.00	0.00	0.00	3.66	2.92
S	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18	1.5	0.00	0.00	0.00	5.57	2.65
SSSE	*5	3.33	1.76	0.00	0.00	0.00	0.00	5.56	2.65
SSSE	*49	3.22	1.76	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	2.07	6.73	9.1	0.00	0.00	0.00	0.00	17.84	2.92
SSSE	*61	2.00	2.04	0.9	0.00	0.00	0.00	15.97	3.11
SSSE	1.10	5.52	6.3	0.5	0.00	0.00	0.00	12.30	3.11
SSSE	*98	5.07	6.15	4.9	0.00	0.00	0.00	13.77	3.11
SSSE	*29	1.51	3.18</td						

TABLE 2.54

JOINT WIND FREQUENCY 1970-1975 VS STABILITY CLASS

		COPPER MINE LAKE STATION						
		NARROW NEARBY WINDS AND PUBLIC POWER DISTRICT DAYS AND MONTHS FOR NO. 7635-001-07						
WIND SECTOR	WIND SECTOR	0.0-1.5 1.5-3.0	1.5-3.0 3.0-5.0	3.0-5.0 5.0-7.5	5.0-7.5 7.5-10.0	7.5-10.0 >10.0	TOTAL	MEAN SPEED
NNE	NE	1.81	2.42	0.00	0.00	0.00	0.00	1.4
		*1.7	*2.3	0.00	0.00	0.00	0.00	1.56
NE	E	2.11	1.81	0.00	0.00	0.00	0.00	1.23
		*2.0	*1.7	0.00	0.00	0.00	0.00	1.53
ENE	E	*6.0	1.24	0.00	0.00	0.00	0.00	1.38
		*5.6	*1.2	0.00	0.00	0.00	0.00	1.61
E	E	2.72	2.42	0.3	0.00	0.00	0.00	1.81
		*2.6	*2.3	0.00	0.00	0.00	0.00	1.76
ESE	E	1.51	1.46	0.0	0.00	0.00	0.00	1.67
		*1.5	*1.1	0.00	0.00	0.00	0.00	1.52
SE	S	*1.5	*1.7	0.00	0.00	0.00	0.00	1.62
		1.51	1.3	0.00	0.00	0.00	0.00	1.68
SSE	S	1.17	3.43	0.00	0.00	0.00	0.00	5.44
		*1.3	*3.6	0.00	0.00	0.00	0.00	5.72
SSE	SSE	*0.9	3.02	0.60	0.00	0.00	0.00	1.57
		*0.9	*2.9	0.06	0.00	0.00	0.00	1.57
S	SSE	3.12	5.19	1.24	0.00	0.00	0.00	3.32
		3.63	5.74	1.21	0.00	0.00	0.00	3.22
SSW	SSE	*3.5	*5.5	*1.2	0.00	0.00	0.00	5.44
		1.24	4.53	1.24	0.00	0.00	0.00	2.01
SSW	SSE	*1.2	*4.4	*1.2	0.00	0.00	0.00	4.53
		*1.3	1.3	1.4	0.00	0.00	0.00	4.44
SW	SSW	*0.9	3.93	1.21	0.00	0.00	0.00	1.96
		*0.9	*3.8	*1.2	0.00	0.00	0.00	1.97
WSW	SW	1.24	3.1	1.0	0.00	0.00	0.00	1.02
		*1.2	3.2	0.00	0.00	0.00	0.00	2.16
W	WSW	2.11	2.72	0.00	0.00	0.00	0.00	2.37
		*2.0	*2.6	0.00	0.00	0.00	0.00	2.20
WNW	W	2.11	2.72	1.6	0.00	0.00	0.00	2.04
		*2.0	*2.6	*1.81	0.00	0.00	0.00	2.02
NNW	WNW	3.11	3.52	0.00	0.00	0.00	0.00	4.53
		*3.2	3.63	*1.2	0.00	0.00	0.00	4.44
NNW	NNW	*4.5	*3.5	*0.5	0.00	0.00	0.00	7.55
		*4.5	1.8	*0.1	0.00	0.00	0.00	7.53
N	NNW	*4.4	5.44	*3.0	0.00	0.00	0.00	1.54
		*4.4	*5.2	*0.3	0.00	0.00	0.00	1.58
N	N	2.0	3.1	0.3	0.00	0.00	0.00	1.27
		6.04	3.32	*9.1	0.00	0.00	0.00	1.56
CALM	N	*1.2	*3.2	*0.9	0.00	0.00	0.00	1.12
		3.63	3.35	*3.2	0.00	0.00	0.00	3.63
TOTAL	TOTAL	1.32	1.72	2.7	0.00	0.00	0.00	3.5
		39.68	51.96	8.16	0.00	0.00	0.00	331
		33.83	4.99	*7.8	0.00	0.00	0.00	1.74

KEY

XXX NUMBER OF OCCURRENCES

XXX PERCENT OCCURRENCES THIS CLASS

XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.55

DATA OBTAINED: JUNE 1967-1975 BY STABILITY CLASS

STABILITY CLASS: PASQUILL G		CODED NUMBER OF OCCURRENCES		NUCLEAR STATION	
DATA SOURCE: ON-SITE MEASUREMENTS		NO. PRIVATE INDUSTRIAL POWER DISTRICTS AND STATE		NAME	
WIND SPEED: 0-1.5 MPH		0-1.5 MPH		JUN 1975-JUL 1976	
SECTOR	WIND SPEED: 1.5-3.0 MPH	WIND SPEED: 3.0-5.0 MPH	WIND SPEED: 5.0-7.5 MPH	WIND SPEED: 7.5-10.0 MPH	TOTAL
NNE	0.0	1	0	0	0
NE	6.90	*86	0.00	0.00	7.76
*23	*23	*03	0.00	0.00	*26
NE	1.72	0.00	0.00	0.00	1.46
*06	0.00	0.00	0.00	0.00	1.72
ENE	1.72	*01	0.00	0.00	*06
*06	1.06	*66	0.00	0.00	*03
E	0.00	*03	0.00	0.00	2.79
*6	0.00	0.00	0.00	0.00	0.9
*03	0.00	0.00	0.00	0.00	1.27
ESE	1.72	0.00	0.00	0.00	*03
*03	1.06	0.00	0.00	0.00	*03
ESE	1.72	0.00	0.00	0.00	*99
*03	0.00	0.00	0.00	0.00	1.72
SE	0.00	0.00	0.00	0.00	0.00
SE	2.59	0.00	0.00	0.00	*99
*09	0.00	0.00	0.00	0.00	*09
SSSE	1.72	1.72	0.00	0.00	*04
*06	0.00	*03	0.00	0.00	1.74
S	0.1	*03	0.00	0.00	3.45
*06	2.59	0.00	0.00	0.00	*12
*03	*09	0.00	0.00	0.00	*46
SSSW	2.59	*1	0.00	0.00	*01
*09	2.59	*86	1.72	0.00	*01
SSE	1.72	*03	*06	0.00	*17
*06	1.72	5.17	1.72	0.00	2.25
SSE	1.06	*17	*05	0.00	*45
*03	6.90	1.72	0.00	0.00	1.30
*23	*06	0.00	0.00	0.00	*6.6
S	1.72	*31	0.00	0.00	*1.7
*06	*15	0.00	0.00	0.00	*1.9
SSSW	6.03	2.59	*86	0.00	*02
*20	*09	*63	0.00	0.00	*24
SSE	5.17	11.21	1.72	0.00	0.00
*17	*36	0.06	0.00	0.00	0.29
SSE	5.17	*3	0.00	0.00	0.7
*17	2.59	0.00	0.00	0.00	1.79
N	*17	*09	0.00	0.00	0.00
N	6.90	0.00	0.00	0.00	*9.3
*23	0.00	0.00	0.00	0.00	*23
CALM	5.17	0.00	0.00	0.00	CALM
TOTAL	5.96	34.46	6.7	0.0	*1.7
	2.00	1.16	*20	0.00	1.16
				0.00	1.00
				0.00	0.37

KEY
 XXX NUMBER OF OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.56

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

ALL CLASSES		CLOUDY		SUNNY		FAIR	
DATA SOURCE: On-SITE WIND SENSOR HEIGHT: 10.67 METERS DATE GENERATED: 05/14/77, 11:42:06+		UP-TO-DATE PUBLIC POWER DISTRICT DATA'S AND WORKS		UP-TO-DATE PUBLIC POWER DISTRICT DATA'S AND WORKS		UP-TO-DATE PUBLIC POWER DISTRICT DATA'S AND WORKS	
WIND SECTOR	0-6-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0	SPEED CATEGORY	MEANS	STDEV	MEANS	STDEV	MEANS
NNE	.29 .81	.56 1.63	1.39 1.13	.26 -.06	0.00 0.00	0.0 0.0	1.32 3.83
NE	.22 .64	1.42 1.22	1.4 -.41	.06 -.06	0.00 0.00	0.0 0.0	2.74 2.33
ENE	.15 .44	.62 1.80	.30 -.87	.09 -.26	0.00 0.00	0.0 0.0	1.16 3.37
E	.15 .44	.66 1.92	.29 -.84	.09 -.26	0.00 0.00	0.0 0.0	1.19 2.65
ENE	.16 .46	.62 1.80	1.04 1.04	.48 -.48	.03 -.03	0.0 0.0	1.30 3.07
SE	.29 .81	.86 2.50	3.07 3.11	.23 -.67	.2 -.06	0.0 0.00	2.49 7.14
SSE	.26 .75	1.32 3.25	1.53 4.44	.71 2.06	0.00 0.00	0.0 0.0	3.362 3.58
S	.46 1.33	1.42 4.12	2.19 6.36	.97 2.01	.16 -.46	0.0 0.00	1.37 15.07
SSW	.20 .58	1.01 2.93	1.43 4.15	.97 2.81	.39 -.87	0.0 0.00	11.35 10.50
SSE	.14 .41	1.77 2.23	.71 2.06	1.49 1.42	.16 -.46	0.0 0.00	2.27 15.20
SSW	.27 .78	1.45 1.78	.50 1.13	.39 -.17	0.0 0.00	0.0 0.00	1.22 3.54
SW	.21 .61	1.45 1.31	.39 1.13	.7 -.20	0.0 0.00	0.0 0.00	11.2 3.25
SSW	.21 .61	1.36 1.04	.36 1.04	.25 -.73	.5 -.15	0.0 0.00	1.23 3.53
SW	.27 .78	1.58 1.68	.65 1.68	.61 1.02	.16 -.52	0.0 -.03	2.28 6.05
SW	.33 .96	1.60 1.74	.58 1.68	.66 1.02	.18 -.52	.1 -.03	2.36 6.05
W	.52 1.51	2.63 2.41	.82 2.38	.24 -.70	.10 -.09	0.0 0.00	1.251 7.28
CALM	.51 1.48						1.51 1.48
TOTAL	13.462 13.41	11.38 33.02	11.60 33.66	8.70 16.54	1.14 3.31	.02 .06	3.445 100.00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES

NUMBER OF VALID OBSERVATIONS 3446
 NUMBER OF INVALID OBSERVATIONS 974
 TOTAL NUMBER OF OBSERVATIONS 4323

79.7% PCT.
 20.2% PCT.
 100.0% PCT.

TABLE 2.57

DATA PERIOD: JULY 1962-1975		STABILITY CLASS FREQUENCY DISTRIBUTION BY STABILITY CLASS									
		COOPED NURC NEW STATION NO. 500-A, NARROWAWA POWER DISTRICT Date 5 AND 400kW JOB NO.: 7635-001-07					NARROWAWA POWER DISTRICT Date 5 AND 400kW JOB NO.: 7635-001-07				
WIND SECTOR	0-0.1-1.5	1.5-3-0	3-0-5	5-0-7.5	7.5-10.0	10.0-12.5	12.5-15.0	15.0-17.5	17.5-20.0	20.0-22.5	22.5-25.0
NNE	3	1-16	50	10	2	0	0	0	0	0	0
NE	*0.8	1-45	5-34	1-92	*21	0-0	0-0	0-0	0-0	0-0	0-0
E	*0.5	1-13	1-39	*50	*06	0-0	0-0	0-0	0-0	0-0	0-0
ENE	*2.2	1-19	*96	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
EE	0-0.9	1-10	*25	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
EEW	0-0.9	1-07	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
EW	*2.7	*24	0-01	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
E	*7.5	*75	*1	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
EEW	*2.0	*29	*0.3	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
ESE	7	5-5	*32	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
SE	*7.5	*14	*08	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
S	*2.0	1-19	*19	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
SW	*3.2	1-07	1-42	*43	0-0	0-0	0-0	0-0	0-0	0-0	0-0
SSE	*0.8	*28	*50	*1	0-0	0-0	0-0	0-0	0-0	0-0	0-0
SSE	0-0.0	2-99	2-69	*72	*1	0-0	0-0	0-0	0-0	0-0	0-0
S	0-0.0	*78	2-01	*72	*0.3	0-0	0-0	0-0	0-0	0-0	0-0
S	1	1-16	7-72	7-69	7-3	1-3	1-3	1-3	1-3	1-3	1-3
SSW	*0.3	*1	1-71	7-69	7-3	1-3	1-3	1-3	1-3	1-3	1-3
SSW	*1	1-45	2-91	2-91	2-3	1-3	1-3	1-3	1-3	1-3	1-3
SSW	*1	1-39	4-06	3-43	3-4	1-3	1-3	1-3	1-3	1-3	1-3
SW	*0.3	*36	1-06	*1.0	*0.7	*0.7	*0.7	*0.7	*0.7	*0.7	*0.7
SW	*1	1-19	*1.9	*1.9	*1.3	*1.3	*1.3	*1.3	*1.3	*1.3	*1.3
SW	*1	*26	2-03	1-19	1-18	1-18	1-18	1-18	1-18	1-18	1-18
SW	*0.3	*25	*53	*36	*21	*1.3	*1.3	*1.3	*1.3	*1.3	*1.3
SW	0-0.0	1-17	1-10	1-07	0-0	0-0	0-0	0-0	0-0	0-0	0-0
SW	0-0.0	1-82	1-07	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
W	*0.0	*47	*28	*28	*0	0-0	0-0	0-0	0-0	0-0	0-0
W	*2	1-18	1-18	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
W	*2.1	1-92	*96	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
W	*0.6	*50	*25	0-0	0-0	0-0	0-0	0-0	0-0	0-0	0-0
W	0	*1.0	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9
W	0	*0.0	1-07	*0.5	*0.5	*0.5	*0.5	*0.5	*0.5	*0.5	*0.5
W	0	*28	*22	*22	*0	0-0	0-0	0-0	0-0	0-0	0-0
W	4	*4	1-12	1-12	1	1	1	1	1	1	1
WNW	*1.1	*43	1-24	1-24	*1	1	1	1	1	1	1
WNW	*1	*11	*31	*33	*0	0	0	0	0	0	0
WNW	*5.3	*6.3	1-60	1-60	1-60	1-60	1-60	1-60	1-60	1-60	1-60
WNW	*1.4	*1.4	*1.4	*42	*75	*11	*11	*11	*11	*11	*11
WNW	*5.3	*5.3	1-50	1-50	1-50	1-50	1-50	1-50	1-50	1-50	1-50
WNW	*1.4	*3.0	*3.0	*3.0	*7.4	*15	*15	*15	*15	*15	*15
WNW	3-21	3-21	3-21	3-21	3-21	3-21	3-21	3-21	3-21	3-21	3-21
TOTAL	77	194	395	211	89	10	5.56	4.12	4.12	4.12	4.12
	8.43	20.73	47.66	22.64	7.54	1.07	1.07	1.07	1.07	1.07	1.07
	2.15	5.41	11.61	5.88	1.57	2.28	2.28	2.28	2.28	2.28	2.28

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.58

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: JULY 1970 - 1975

WIND SECTOR	0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 10.0-12.5 12.5-15.0 15.0-17.5 17.5-20.0 20.0-22.5 22.5-25.0 25.0-27.5 27.5-30.0 30.0-32.5 32.5-35.0 35.0-37.5 37.5-40.0 40.0-42.5 42.5-45.0 45.0-47.5 47.5-50.0 50.0-52.5 52.5-55.0 55.0-57.5 57.5-60.0 60.0-62.5 62.5-65.0 65.0-67.5 67.5-70.0 70.0-72.5 72.5-75.0 75.0-77.5 77.5-80.0 80.0-82.5 82.5-85.0 85.0-87.5 87.5-90.0 90.0-92.5 92.5-95.0 95.0-97.5 97.5-100.0	COUPLED SURFACE STATION					COUPLED SURFACE STATION					COUPLED SURFACE STATION				
	STABILITY CLASS: PESSIMIST	ON-SITE	OFF-SITE	WEATHER	WEATHER	STABILITY CLASS: OPTIMIST	ON-SITE	OFF-SITE	WEATHER	WEATHER	STABILITY CLASS: NEUTRAL	ON-SITE	OFF-SITE	WEATHER	WEATHER	
NNE	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	1 0.3 0.0	
NE	0.0	2.60 1.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
ENE	0.00	0.1 0.3 0.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
E	0.00	0.3 0.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	0.00 1.00 0.00	
EESE	0.00	0.1 0.3 0.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
SE	0.00	0.00 0.00 0.00	1.00 1.00 1.00	3.90 3.90 3.90	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	
SSE	0.00	0.00 0.00 0.00	5.19 5.22 5.22	9.00 9.00 9.00	2.40 2.39 2.39	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	
S	0.00	0.00 0.00 0.00	3.90 3.90 3.90	6.49 6.49 6.49	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	5.19 5.19 5.19	
SSW	0.00	0.00 0.00 0.00	3.25 3.25 3.25	7.79 7.79 7.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	2.79 2.79 2.79	
SW	0.00	0.00 0.00 0.00	1.14 1.14 1.14	3.33 3.33 3.33	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	1.11 1.11 1.11	
WSW	0.00	0.00 0.00 0.00	1.11 1.11 1.11	2.60 2.60 2.60	1.19 1.19 1.19	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	2.40 2.40 2.40	
W	0.00	0.00 0.00 0.00	1.30 1.30 1.30	2.60 2.60 2.60	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	1.30 1.30 1.30	
WSW	0.00	0.00 0.00 0.00	0.3 0.3 0.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
W	0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
WSW	0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
W	0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
CALM	1-30	2 0.3 0.3	70 1.23 1.06	70 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	20 1.05 1.11	
TOTAL	3.90 .17	28.57 1.23	45.45 1.05	38.18 1.05	28.60 1.05	28.60 1.05	28.60 1.05	28.60 1.05	28.60 1.05	28.60 1.05	28.60 1.05	28.60 1.05	28.60 1.05	28.60 1.05	28.60 1.05	

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.59

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
DATA PERIOD: JULY 1980 - 1979		STABILITY CLASS: PALEOCLIM.		CLOUDY HURFAW STATION		NO-MARSH, NEARAWA		SUBARU PUMPKIN POWER PLANT	
DATA SOURCE: ON-SITE		WIND SPEED: 10.07 METERS		DATES AND WIND DIRECTION		DAYS AND WIND DIRECTION		DAYS AND WIND DIRECTION	
WIND SECTION		WIND SPEED		CATEGORY		SECTION		SECTION	
WIND SECTION	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	7.5-10.0	7.5-10.0	7.5-10.0	TOTAL
NNE	0.00	0	3	3	1	0	0	0	7
NNE	0.00	1.76	1.76	1.76	1.76	0.00	0.00	0.00	4.54
NE	1.18	2	1	0.9	0.3	0.00	0.00	0.00	2.49
NE	1.18	5.9	1.76	1.76	0.00	0.00	0.00	0.00	7.53
ENE	1.06	0.3	0.6	0.9	0.00	0.00	0.00	0.00	2.45
ENE	0.00	3.53	5.1	5.1	0.00	0.00	0.00	0.00	1.17
E	0.00	1.17	1.17	1.17	0.00	0.00	0.00	0.00	2.45
E	0.00	1.76	1.76	1.76	1.76	0.00	0.00	0.00	3.49
ESE	0.00	0.9	0.9	0.9	0.9	0.00	0.00	0.00	2.94
ESE	0.00	0.1	0.1	0.1	0.1	0.00	0.00	0.00	0.14
SE	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	4.18
SE	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.35
SE	0.00	2	1.18	1.18	1.18	0.00	0.00	0.00	4.12
SSE	1.18	1.18	1.76	1.76	1.76	0.00	0.00	0.00	2.90
SSE	1.06	0.9	1.17	1.17	1.17	0.00	0.00	0.00	2.22
S	1.18	5.9	10.0	10.0	10.0	0.00	0.00	0.00	3.24
S	1.06	2.5	4	4	4	0.00	0.00	0.00	4.06
S	0.00	0	2	1.18	1.18	0.00	0.00	0.00	4.47
SSW	0.00	1.18	0.6	0.6	0.6	0.00	0.00	0.00	2.90
SSW	0.00	2.35	7.46	7.46	7.46	0.00	0.00	0.00	4.48
SW	0.00	1.1	1.1	1.1	1.1	0.00	0.00	0.00	2.70
SW	0.00	3.6	1.12	1.12	1.12	0.00	0.00	0.00	3.04
SW	0.00	3.53	7.06	7.06	7.06	0.00	0.00	0.00	12.94
WSW	0.00	1.17	3.3	3.3	3.3	0.00	0.00	0.00	6.01
WSW	0.00	2	1.18	1.18	1.18	0.00	0.00	0.00	3.58
W	0.00	0.6	0.3	0.3	0.3	0.00	0.00	0.00	2.35
W	0.00	5.9	1	1	1	0.00	0.00	0.00	4.48
WNW	0.00	0.3	0.3	0.3	0.3	0.00	0.00	0.00	1.18
WNW	0.00	0	0	0	0	0.00	0.00	0.00	0.06
WNW	0.00	5.9	0.00	0.00	0.00	0.00	0.00	0.00	2.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	5.59
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.3
NNW	0.00	5.9	0.00	0.00	0.00	0.00	0.00	0.00	7.4
NNW	0.00	0.3	0.00	0.00	0.00	0.00	0.00	0.00	3.11
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00
NNW	0.00	5.9	1.18	1.18	1.18	0.00	0.00	0.00	1.18
NNW	0.00	0.3	0.6	0.9	0.9	0.00	0.00	0.00	2.18
NNW	0.00	0	0	0	0	0.00	0.00	0.00	0.00

TABLE 2.60

STABILITY CLASS:	JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS						TOTAL
	0.0-1.5 SEC/DW	1.5-3.0 SEC/DW	3.0-5.0 SEC/DW	5.0-7.5 SEC/DW	7.5-10.0 SEC/DW	10.0-0 SEC/DW	
DATA SOURCE: On-Site							
WIND SENSOR HEIGHT: 10.67 METERS							
TABLE GENERATED: 05/18/97, 11:54:47.							
DATE & TIME: 05/18/97, 11:54:47.							
COPIED FROM STATION: NARADA							
NAME: NARADA							
WIND SPEED: METERS PER SECOND							
0.0-1.5	5	14	27	27	0	0	48
1.5-3.0	14	39	75	76	0	0	320
3.0-5.0	27	75	12	12	0	0	75
5.0-7.5	34	63	14	14	0	0	40
7.5-10.0	37	33	3	3	0	0	11
10.0-0	23	17	0	0	0	0	90
E	22	31	14	14	0	0	54
NE	13	47	14	14	0	0	72
SE	17	18	14	14	0	0	39
SW	16	14	14	14	0	0	59
SSE	17	18	14	14	0	0	73
S	16	14	14	14	0	0	76
SSW	14	14	14	14	0	0	99
SW	14	14	14	14	0	0	51
SE	14	14	14	14	0	0	44
NE	14	14	14	14	0	0	42
SSE	14	14	14	14	0	0	44
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14	14	14	0	0	43
SSW	14	14	14	14	0	0	43
SW	14	14	14	14	0	0	43
SE	14	14	14	14	0	0	43
NE	14	14	14	14	0	0	43
SSE	14	14	14	14	0	0	43
S	14	14					

TABLE 2.61

DATA PERIOD: JULY 1981-1975

STABILITY CLASS FREQUENCY DISTRIBUTION BY STABILITY CLASS

WIND SECTOR	0.0-1.5 1.5-3.0 3.0-7.5 7.5-10.0 10.0-15.0	COPIED NUCLEAR STATION				TOTAL	
		WEAK	MEDIUM	STRONG	VERY STRONG		
NNE	8	2.8	5	1	0	0	4.2
NE	78	2.73	4.9	1.0	0.0	4.10	2.17
NE	22	2.78	1.4	2.0	0.0	1.17	
E	1.14	1.7	0.0	0.0	0.0	1.31	1.65
E	1.37	1.65	0.0	0.0	0.0	3.02	
E	3.39	4.7	0.0	0.0	0.0	4.40	4.86
E	6	4	0.0	0.0	0.0	1.75	1.76
E	5.9	6.8	0.0	0.0	0.0	1.49	
E	1.17	2.5	0.0	0.0	0.0	1.42	
E	1.9	1.0	0.0	0.0	0.0	1.20	1.40
E	8.8	9.8	1.0	0.0	0.0	1.95	
E	2.5	2.8	0.3	0.0	0.0	1.26	
ESE	0.0	2.6	4.5	0.0	0.0	1.31	2.45
ESE	0.0	2.54	4.0	0.0	0.0	1.02	
ESE	0.0	7.2	1.4	0.0	0.0	0.0	
SE	1.01	4.0	2.2	0.0	0.0	1.66	
SE	1.31	3.90	2.15	0.0	0.0	1.73	2.41
SE	1.14	1.11	4.6	0.0	0.0	2.03	
SE	1.37	6.4	4.68	0.3	0.0	2.14	2.68
S	1.32	2.20	4.20	0.0	0.0	1.65	
S	1.17	1.32	1.34	0.0	0.0	1.15	
S	1.17	1.22	7.5	7	0.0	2.28	2.87
S	1.33	3.68	2.15	0.0	0.0	2.24	
S	1.11	7.4	6.65	0.9	0.0	6.35	3.05
S	1.07	7.22	5.85	0.9	0.0	1.54	
S	1.31	2.06	1.67	0.0	0.0	1.02	
S	1.0	1.30	1.51	0.1	0.0	0.29	
S	1.78	2.93	4.98	1.0	0.0	1.90	3.05
S	1.22	0.94	1.42	0.3	0.0	0.76	
S	1.66	1.12	1.10	1	0	0.51	
S	1.17	1.17	0.98	1.0	0.0	0.30	2.58
S	1.32	1.37	2.8	0.3	0.0	0.93	
S	1.6	0.6	5.6	1	0	0.84	
S	5.9	6.8	5.9	1.0	0.0	1.20	2.59
S	1.17	2.0	1.7	0.3	0.0	1.95	
S	1.17	1.2	6	1	0	0.56	
S	6.8	1.17	5.9	1.0	0.0	0.0	2.35
S	2.0	3.3	1.7	0.3	0.0	0.90	
S	4	9	7	0	0	0.72	
S	3.9	6.8	6.8	0.0	0.0	1.20	2.39
S	1.1	2.7	2.0	0.0	0.0	0.95	
S	1.6	1.6	2.1	1	0	0.56	
S	5.9	1.56	1.0	1.0	0.0	0.34	2.06
S	1.17	4.5	0.3	0.3	0.0	0.67	
S	1.0	4.3	1.3	0.0	0.0	0.33	2.34
S	9.8	4.20	1.27	0.0	0.0	0.44	
S	2.6	1.20	3.6	0.0	0.0	1.44	
CALM	6	6	6	0.0	0.0	1.6	CALM
CALM	5.9	1.7	5.9	0.0	0.0	0.59	
TOTAL	13.39	5.49	31.2	2.72	0	0	10.5
TOTAL	13.59	53.56	30.44	2.44	0	0	10.5
	3.67	15.30	8.69	2.70	0.00	0.00	2.56

KEY

XXX NUMBER OF OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.62

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: 1980-JULY

WIND SECTOR	WIND SPEED CATEGORYS					<0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 >10.0	TOTAL	MEAN SPED
	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0			
NNE	7	6	0	0	0	0	0	1.3
	1-60	1-37	0-00	0-00	0-00	0-00	0-00	1-44
	*20	*17	0-00	0-00	0-00	0-00	0-00	2-97
NE	1	4	0-00	0-00	0-00	0-00	0-00	1-36
	*23	*91	0-00	0-00	0-00	0-00	0-00	1-5
	*03	*1	0-00	0-00	0-00	0-00	0-00	1-14
ENE	3	1	0-00	0-00	0-00	0-00	0-00	1-17
	*68	*23	0-00	0-00	0-00	0-00	0-00	1-4
	*08	*3	0-00	0-00	0-00	0-00	0-00	1-1
E	0-09	0-3	0-00	0-00	0-00	0-00	0-00	0-98
	2-07	0-00	0-00	0-00	0-00	0-00	0-00	2-07
	*25	0-00	0-00	0-00	0-00	0-00	0-00	2-5
ESE	5	10	0-00	0-00	0-00	0-00	0-00	1-60
	1-14	2-28	0-00	0-00	0-00	0-00	0-00	3-42
	*14	*24	0-00	0-00	0-00	0-00	0-00	4-2
SE	2-12	2-26	0-00	0-00	0-00	0-00	0-00	3-9
	2-74	5-24	*23	0-00	0-00	0-00	0-00	1-40
	*32	*72	*03	0-00	0-00	0-00	0-00	6-90
SSE	1-7	4-2	*1	0-00	0-00	0-00	0-00	1-09
	3-68	9-59	*23	0-00	0-00	0-00	0-00	1-86
	*47	1-17	*23	0-00	0-00	0-00	0-00	1-70
S	2-22	6-7	*0	0-00	0-00	0-00	0-00	1-67
	5-02	15-30	0-00	0-00	0-00	0-00	0-00	1-93
	*61	1-87	0-00	0-00	0-00	0-00	0-00	20-32
SSW	2-74	10-05	*68	*23	0-00	0-00	0-00	2-48
	*33	*23	*08	*03	0-00	0-00	0-00	13-60
SW	4-18	4-19	*4	0-0	0-0	0-0	0-0	1-79
	*13	*34	*1	0-00	0-00	0-00	0-00	9-36
	*30	*53	*1	0-00	0-00	0-00	0-00	1-14
WSW	2-74	1-2	*4	0-00	0-00	0-00	0-00	1-17
	*33	*91	*23	0-00	0-00	0-00	0-00	1-28
W	2-10	1-14	0-00	0-00	0-00	0-00	0-00	1-67
	*28	*14	0-00	0-00	0-00	0-00	0-00	3-42
WNW	1-15	*2	*1	0-00	0-00	0-00	0-00	-4-2
	1-14	*46	*23	0-00	0-00	0-00	0-00	1-48
	*14	*05	*03	0-00	0-00	0-00	0-00	1-83
NNW	4-9	*2	*2	0-00	0-00	0-00	0-00	2-22
	*91	*66	*46	*23	0-00	0-00	0-00	2-42
	*11	*05	*06	*03	0-00	0-00	0-00	2-05
WNW	2-51	1-14	*23	0-00	0-00	0-00	0-00	1-17
	*3	*14	*03	0-00	0-00	0-00	0-00	3-88
N	4-11	2-05	*23	0-00	0-00	0-00	0-00	1-34
	*50	*25	*03	0-00	0-00	0-00	0-00	6-39
CALM	2-05	0	0	0	0	0	0	0-78
	0	0	0	0	0	0	0	0-9
TOTAL	175	246	3-42	*46	0-00	0-00	0-00	2-05
	39-95	56-6	*42	*06	0-00	0-00	0-00	4-38
	4-68	6-85	*42	*06	0-00	0-00	0-00	1-72

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.63

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		CLOUDY NUCLEAR STATION						
DATA PERIOD: JULY 1970 - 1975		OF WHICH: NO HAZARD POWER STATISTICS						
STABILITY CLASS: UN-STABLE		NO HAZARD PUBLIC DATA AND SOURCE: ON-SITE						
WIND SENSOR HEIGHT: 10.67 METERS		JOHNSON 7635-001-07						
TABLE GENERATED: 05/14/77, 11:58:47		JOHNSON 7635-001-07						
WIND SECTION	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	WEIGHTS
NNE	5	1	0	0	0	0	0	0
NNE	3-62	*76	0-00	0-00	0-00	0-00	0-00	*21
NNE	*14	*03	0-00	0-00	0-00	0-00	0-00	*17
NNE	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00
ENE	0-00	0-00	0-00	0-00	0-00	0-00	0-00	0-00
ENE	*76	*76	0-00	0-00	0-00	0-00	0-00	1-41
E	*03	*03	0-00	0-00	0-00	0-00	0-00	0-00
E	*76	0-00	0-00	0-00	0-00	0-00	0-00	1-11
ESE	*03	0-00	0-00	0-00	0-00	0-00	0-00	0-00
ESE	3-05	*01	0-00	0-00	0-00	0-00	0-00	*03
ESE	*05	*76	0-00	0-00	0-00	0-00	0-00	1-20
SE	*11	*03	0-00	0-00	0-00	0-00	0-00	3-82
SE	3-04	*2	0-00	0-00	0-00	0-00	0-00	1-53
SE	3-05	1-53	0-00	0-00	0-00	0-00	0-00	0-00
SE	*11	*05	0-00	0-00	0-00	0-00	0-00	0-00
SSW	3-04	6-0	0-00	0-00	0-00	0-00	0-00	*03
SSW	3-05	6-11	0-00	0-00	0-00	0-00	0-00	1-16
SSW	*11	*22	0-00	0-00	0-00	0-00	0-00	0-00
S	*16	*4	0-00	0-00	0-00	0-00	0-00	*33
S	12-21	3-0	0-00	0-00	0-00	0-00	0-00	1-19
S	*42	*11	0-00	0-00	0-00	0-00	0-00	0-00
SSW	6-07	*76	0-00	0-00	0-00	0-00	0-00	*08
SSW	*27	*03	0-00	0-00	0-00	0-00	0-00	0-00
SSW	5-34	6-11	0-00	0-00	0-00	0-00	0-00	0-00
SSW	*20	*22	0-00	0-00	0-00	0-00	0-00	0-00
SSW	*7	*1	0-00	0-00	0-00	0-00	0-00	0-00
SSW	5-34	*76	0-00	0-00	0-00	0-00	0-00	0-00
SSW	*20	*03	0-00	0-00	0-00	0-00	0-00	0-00
S	3-05	0-00	0-00	0-00	0-00	0-00	0-00	0-00
S	*11	0-00	0-00	0-00	0-00	0-00	0-00	0-00
SSW	4-6	*2	0-00	0-00	0-00	0-00	0-00	0-00
SSW	4-58	*76	0-00	0-00	0-00	0-00	0-00	0-00
SSW	*17	*03	0-00	0-00	0-00	0-00	0-00	0-00
SSW	4-54	0-00	0-00	0-00	0-00	0-00	0-00	0-00
SSW	*17	0-00	0-00	0-00	0-00	0-00	0-00	0-00
SSW	3-62	*76	0-00	0-00	0-00	0-00	0-00	0-00
S	*14	*03	0-00	0-00	0-00	0-00	0-00	0-00
S	7-63	3-05	0-00	0-00	0-00	0-00	0-00	1-24
CALM	*28	*11	0-00	0-00	0-00	0-00	0-00	0-00
CALM	6-18	0-00	0-00	0-00	0-00	0-00	0-00	0-00
TOTAL	74-97	33	1	0-00	0-00	0-00	0-00	0-00
TOTAL	74-05	25-19	.76	0-00	0-00	0-00	0-00	0-00
TOTAL	2-70	*42	.03	0-00	0-00	0-00	0-00	0-00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.64

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: JULY 1980-1975
WIND SECTOR	0-90°	150°-180°			180°-210°			210°-240°			240°-270°			270°-300°			300°-330°			330°-360°			360°-390°			390°-420°			420°-450°			450°-480°			480°-510°			510°-540°			540°-570°			570°-600°			600°-630°			630°-660°			660°-690°			690°-720°			720°-750°			750°-780°			780°-810°			810°-840°			840°-870°			870°-900°			900°-930°			930°-960°			960°-990°			990°-1020°			1020°-1050°			1050°-1080°			1080°-1110°			1110°-1140°			1140°-1170°			1170°-1200°			1200°-1230°			1230°-1260°			1260°-1290°			1290°-1320°			1320°-1350°			1350°-1380°			1380°-1410°			1410°-1440°			1440°-1470°			1470°-1500°			1500°-1530°			1530°-1560°			1560°-1590°			1590°-1620°			1620°-1650°			1650°-1680°			1680°-1710°			1710°-1740°			1740°-1770°			1770°-1800°			1800°-1830°			1830°-1860°			1860°-1890°			1890°-1920°			1920°-1950°			1950°-1980°			1980°-2010°			2010°-2040°			2040°-2070°			2070°-2100°			2100°-2130°			2130°-2160°			2160°-2190°			2190°-2220°			2220°-2250°			2250°-2280°			2280°-2310°			2310°-2340°			2340°-2370°			2370°-2400°			2400°-2430°			2430°-2460°			2460°-2490°			2490°-2520°			2520°-2550°			2550°-2580°			2580°-2610°			2610°-2640°			2640°-2670°			2670°-2700°			2700°-2730°			2730°-2760°			2760°-2790°			2790°-2820°			2820°-2850°			2850°-2880°			2880°-2910°			2910°-2940°			2940°-2970°			2970°-3000°			3000°-3030°			3030°-3060°			3060°-3090°			3090°-3120°			3120°-3150°			3150°-3180°			3180°-3210°			3210°-3240°			3240°-3270°			3270°-3300°			3300°-3330°			3330°-3360°			3360°-3390°			3390°-3420°			3420°-3450°			3450°-3480°			3480°-3510°			3510°-3540°			3540°-3570°			3570°-3600°			3600°-3630°			3630°-3660°			3660°-3690°			3690°-3720°			3720°-3750°			3750°-3780°			3780°-3810°			3810°-3840°			3840°-3870°			3870°-3900°			3900°-3930°			3930°-3960°			3960°-3990°			3990°-4020°			4020°-4050°			4050°-4080°			4080°-4110°			4110°-4140°			4140°-4170°			4170°-4200°			4200°-4230°			4230°-4260°			4260°-4290°			4290°-4320°			4320°-4350°			4350°-4380°			4380°-4410°			4410°-4440°			4440°-4470°			4470°-4500°			4500°-4530°			4530°-4560°			4560°-4590°			4590°-4620°			4620°-4650°			4650°-4680°			4680°-4710°			4710°-4740°			4740°-4770°			4770°-4800°			4800°-4830°			4830°-4860°			4860°-4890°			4890°-4920°			4920°-4950°			4950°-4980°			4980°-5010°			5010°-5040°			5040°-5070°			5070°-5100°			5100°-5130°			5130°-5160°			5160°-5190°			5190°-5220°			5220°-5250°			5250°-5280°			5280°-5310°			5310°-5340°			5340°-5370°			5370°-5400°			5400°-5430°			5430°-5460°			5460°-5490°			5490°-5520°			5520°-5550°			5550°-5580°			5580°-5610°			5610°-5640°			5640°-5670°			5670°-5700°			5700°-5730°			5730°-5760°			5760°-5790°			5790°-5820°			5820°-5850°			5850°-5880°			5880°-5910°			5910°-5940°			5940°-5970°			5970°-6000°			6000°-6030°			6030°-6060°			6060°-6090°			6090°-6120°			6120°-6150°			6150°-6180°			6180°-6210°			6210°-6240°			6240°-6270°			6270°-6300°			6300°-6330°			6330°-6360°			6360°-6390°			6390°-6420°			6420°-6450°			6450°-6480°			6480°-6510°			6510°-6540°			6540°-6570°			6570°-6600°			6600°-6630°			6630°-6660°			6660°-6690°			6690°-6720°			6720°-6750°			6750°-6780°			6780°-6810°			6810°-6840°			6840°-6870°			6870°-6900°			6900°-6930°			6930°-6960°			6960°-6990°			6990°-7020°			7020°-7050°			7050°-7080°			7080°-7110°			7110°-7140°			7140°-7170°			7170°-7200°			7200°-7230°			7230°-7260°			7260°-7290°			7290°-7320°			7320°-7350°			7350°-7380°			7380°-7410°			7410°-7440°			7440°-7470°			7470°-7500°			7500°-7530°			7530°-7560°			7560°-7590°			7590°-7620°			7620°-7650°			7650°-7680°			7680°-7710°			7710°-7740°			7740°-7770°			7770°-7800°			7800°-7830°			7830°-7860°			7860°-7890°			7890°-7920°			7920°-7950°			7950°-7980°			7980°-8010°			8010°-8040°			8040°-8070°			8070°-8100°			8100°-8130°			8130°-8160°			8160°-8190°			8190°-8220°			8220°-8250°			8250°-8280°			8280°-8310°			8310°-8340°			8340°-8370°			8370°-8400°			8400°-8430°			8430°-8460°			8460°-8490°			8490°-8520°			8520°-8550°			8550°-8580°			8580°-8610°			8610°-8640°			8640°-8670°			8670°-8700°			8700°-8730°			8730°-8760°			8760°-8790°			8790°-8820°			8820°-8850°			8850°-8880°			8880°-8910°			8910°-8940°			8940°-8970°			8970°-9000°			9000°-9030°			9030°-9060°			9060°-9090°			9090°-9120°			9120°-9150°			9150°-9180°			9180°-9210°			9210°-9240°			9240°-9270°			9270°-9300°			9300°-9330°			9330°-9360°			9360°-9390°			9390°-9420°			9420°-9450°			9450°-9480°			9480°-9510°			9510°-9540°			9540°-9570°			9570°-9600°			9600°-9630°			9630°-9660°			9660°-9690°			9690°-9720°			9720°-9750°			9750°-9780°			9780°-9810°			9810°-9840°			9840°-9870°			9870°-9900°			9900°-9930°			9930°-9960°			9960°-9990°			9990°-10020°			10020°-10050°			10050°-10080°			10080°-10110°			10110°-10140°			10140°-10170°			10170°-10200°			10200°-10230°			10230°-10260°			10260°-10290°			10290°-10320°			10320°-10350°			10350°-10380°			10380°-10410°			10410°-10440°			10440°-10470°			10470°-10500°			10500°-10530°			10530°-10560°			10560°-10590°			10590°-10620°			10620°-10650°			10650°-10680°			10680°-10710°			10710°-10740°			10740°-10770°			10770°-10800°			10800°-10830°			10830°-10860°			10860°-10890°			10890°-10920°			10920°-10950°			10950°-10980°			10980°-11010°			11010°-11040°			11040°-11070°			11070°-11100°			11100°-11130°			11130°-11160°			11160°-11190°			11190°-11220°			11220°-11250°			11250°-11280°			11280°-11310°			11310°-11340°			11340°-11370°			11370°-11400°			11400°-11430°			11430°-11460°			11460°-11490°			11490°-11520°			11520°-11550°			11550°-11580°			11580°-11610°			11610°-11640°			11640°-11670°			11670°-11700°			11700°-11730°			11730°-11760°			11760°-11790°			11790°-11820°			11820°-11850°			11850°-11880°			11880°-11910°			11910°-11940°			11940°-11970°			11970°-12000°			12000°-12030°			12030°-12060°			12060°-12090°			12090°-12120°			12120°-12150°			12150°-12180°			12180°-12210°			12210°-12240°			12240°-12270°			12270°-12300°			12300°-12330°			12330°-12360°			12360°-12390°			12390°-12420°			12420°-12450°			12450°-12480°			12480°-12510°			12510°-12540°			12540°-12570°			12570°-12600°			12600°-12630°			12630°-12660°			12660°-12690°			12690°-12720°			12720°-12750°			12750°-12780°			12780°-12810°			12810°-12840°			12840°-12870°			12870°-12900°			12900°-12930°			12930°-12960°			12960°-12990°			12990°-13020°			13020°-13050°			13050°-13080°			13080°-13110°			13110°-13140°			13140°-13170°			13170°-13200°			13200°-13230°			13230°-13260°			13260°-13290°			13290°-13320°			13320°-13350°			13350°-13380°			13380°-13410°			13410°-13440°			13440°-13470°			13470°-13500°			13500°-13530°			13530°-13560°			13560°-13590°			13590°-13620°			13620°-13650°			13650°-13680°			13680°-13710°			13710°-13740°			13740°-13770°			13770°-13800°			13800°-13830°			13830°-13860°			13860°-13890°			13890°-13920°			13920°-13950°			13950°-13980°			13980°-14010°			14010°-14040°			14040°-14070°			14070°-14100°			14100°-14130°			14130°-14160°			14160°-14190°			14190°-14220°			14220°-14250°			14250°-14280°			14280°-14310°			14310°-14340°			14340°-14370°			14370°-14400°			14400°-14430°			14430°-14460°			14460°-14490°			14490°-14520°			14520°-14550°			14550°-14580°			14580°-14610°			14610°-14640°			14640°-14670°			14670°-14700°			14700°-14730°			14730°-14760°			14760°-14790°			14790°-14820°			14820°-14850°			14850°-14880°			14880°-14910°			14910°-14940°			14940°-14970°			14970°-15000°			15000°-15030°			15030°-15060°			15060°-15090°			15090°-15120°			15120°-15150°			15150°-15180°			15180°-15210°			15210°-15240°			15240°-15270°			15270°-15300°			15300°-15330°			15330°-15360°			15360°-15390°			15390°-15420°			15420°-15450°			15450°-15480°			15480°-15510°			15510°-15540°			15540°-15570°			15570°-15600°			15600°-15630°			15630°-15660°			15660°-15690°			15690°-15720°			15720°-15750°			15750°-15780°			15780°-15810°			15810°-15840°			15840°-15870°			15870°-15900°			15900°-15930°			15930°-15960°			15960°-15990°			15990°-16020°			16020°-16050°			16050°-16080°			16080°-16110°			16110°-16140°			16140°-16170°			16170°-16200°			16200°-16230°			16230°-16260°			16260°-16290°			16290°-16320°			16320°-16350°			16350°-16380°			16380°-16410°			16410°-16440°			16440°-16470°			16470°-16500°			16500°-16530°			16530°-16560°			16560°-16590°			16590°-16620°			16620°-16650°			16650°-16680°			16680°-16710°			16710°-16740°			16740°-16770°			16770°-16800°			16800°-16830°			16830°-16860°			16860°-16890°			16890°-16920°			16920°-16950°			16950°-16980°			16980°-17010°			17010°-17040°			17040°-17070°			17070°-17100°			17100°-17130°			17130°-17160°			17160°-17190°			17190°-17220°			17220°-17250°			17250°-17280°			17280°-17310°			17310°-17340°			17340°-17370°			17370°-17400°			17400°-17430°			17430°-17460°			17460°-17490°			17490°-17520°			17520°-175		

TABLE 2.65

JOINT PREDICTION FREQUENCY DISTRIBUTION BY STABILITY CLASS

STABILITY CLASS: PASSENGER A		CODED NUMBER OF STATION			
DATA SOURCE: ON-SITE		NO. OF STATION	NO. OF STATION		
WIND SENSOR HEIGHT: 10.67 METERS		11.57 ± 2.5	18.45 ± 0.7		
TABLE GENERATED: 05/16/77					
WIND SPEED	0.0-1.5	1.5-3.0	3.0-5.0		
SECTION	0.0-1.5	1.5-3.0	3.0-5.0	>10.0	TOTAL
ANGLE	*4.3	1.9	4.1	5	6.9
NE	*1.1	2.5	4.4	5	7.83
	*1.7	1.3	1.9	2.3	4.92
	*7.5	1.4	1.9	1	4.09
	*2.0	3.7	2.6	1	7.30
E	*7.5	1.5	1.2	0.3	2.73
	*7.5	1.6	1.9	0.3	4.67
	*2.0	4.3	3.4	0	8.67
	*1.1	1.4	1.1	0	3.34
	*0.3	1.1	0.6	0	2.67
ESE	*2.0	1.0	2.3	0	3.67
	*2.2	1.0	4.4	1	6.67
	*0.6	2.2	4.3	1	7.67
	*0.4	2.5	3.1	0	6.67
SE	*4.3	2.5	1.7	0.9	5.44
	*1.1	4.9	1.7	0.9	7.81
	*1.7	7.2	4.6	2.3	1.55
SSE	0.0	1.7	4.6	3	10.1
	0.0	1.7	5.1	3	5.52
S	*0.4	4.9	1.38	3.34	19.87
	*1.7	4.0	4.9	1.4	1.83
	*4.3	1.7	0.3	0	1.83
	*1.1	6.3	0.1	0	6.44
	*1.5	4.9	2.30	1.29	1.54
SSW	*3.2	1.6	2.4	2.3	6.07
	*0.9	4.3	1.67	2.12	1.55
SW	*3.2	1.6	2.6	3.6	7.92
	*0.9	7.2	2.0	3.77	4.75
	*0.6	4.6	0.9	5.4	14.9
	*0.7	9.7	9.7	1	16.04
	*1.7	2.0	2.6	1.7	6.28
	*3.2	1.9	0.9	1.1	4.33
	*0.9	4.7	5.4	0	11.30
	*3.2	1.6	0.0	0	1.62
	*0.9	2.6	1.4	0	4.05
	*0.9	4.6	2.5	1.1	8.15
	*0.6	9.9	9	1	16.04
	*0.7	9.7	9.7	1	27.78
	*1.7	2.0	2.6	1.7	6.69
	*3.2	1.9	0.9	0	7.2
	*0.9	4.7	5.4	0	13.36
	*3.2	1.4	1.3	0	4.83
	*0.9	2.6	1.4	0	4.9
	*2.2	3.3	1.4	0	5.92
	*2.2	7.5	3.2	2.2	2.92
	*2.0	0.9	0.6	0	1.52
	*2.2	9.9	1.2	1.9	4.55
	*0.6	2.5	3.4	0.5	4.63
	*3.2	1.4	1.3	0	2.24
	*0.9	5.1	4.0	2.7	6.55
	*0.9	2.6	3.5	1.8	8.40
	*3.2	2.6	3.7	1.94	8.93
	*0.9	7.5	1.01	1.1	2.38
CALM	2.15	0	0.52	0.90	2.20
	*3.7	0	0	0	2.15
TOTAL	7.74	235	379	277	5.57
	2.13	25.35	40.80	22.93	1.92
	6.75	10.89	6.12	7.76	0.91
KEY	XXX NUMBER OF OCCURRENCES			1.1	1.00
	XXX PERCENT OCCURRENCES THIS CLASS				2.6
	XXX PERCENT OCCURRENCES ALL CLASSES				0.9

TABLE 2.66

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

		CROPPED NORTHERN STATION		SOUTHERN PUBLIC POWER DISTRICT		MEAN SPEED	
		WEATHER & PUBLIC POWER DISTRICT DAMES AND SOWEE JOB NO: 765-001-07					
SECTION	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL
NNE	0.00	0.00	2.5%	0.0	0.0	0.0	2.5%
NE	0.00	0.00	2.1%	0.0	0.0	0.0	2.1%
ENE	*6.3	*6.3	1.4%	0.0	0.0	0.0	1.4%
ENE	*0.3	*0.2	0.9%	0.0	0.0	0.0	0.9%
NE	*6.3	1.2%	1.2%	0.0	0.0	0.0	1.2%
E	*0.3	*0.5	*0.6%	0.0	0.0	0.0	1.1%
E	0.00	*6.3	*0.3	0.0	0.0	0.0	0.3%
ESE	0.00	*0.3	*0.3	0.4%	0.0	0.0	0.9%
ESE	0.00	1.2%	*6.3	0.0	0.0	0.0	1.8%
SE	0.00	*0.6	*0.3	0.0	0.0	0.0	0.9%
SE	*6.3	3.1%	*1.4%	*1.4%	0.0	0.0	3.1%
SSE	*0.3	*1.4%	*3.2%	*0.3	0.0	0.0	1.1%
SSE	*0.3	3.1%	*6.3%	3.7%	*6.3	0.0	15.0%
S	1.2%	3.1%	*1.4%	*1.3%	*1.7	*0.3	6.9%
S	*0.6	*1.4%	*1.4%	*1.8%	*0.9	0.0	18.8%
SSW	0.00	1.2%	*1.2%	*1.2%	*0.9	0.0	4.8%
SSW	0.00	1.2%	*7.2%	*6.2%	*6.3	0.0	15.7%
SW	*6.3	*0.9	*2.4%	*2.4%	*0.3	0.0	7.2%
SW	*6.3	0.00	*3.1%	*2%	*1	0.0	5.9%
SW	0.00	*0.9	*1.4%	*1.6%	*0.3	0.0	5.6%
SW	1.2%	3.1%	0.00	0.00	*0.9	0.0	2.1%
W	*0.6	*1.7%	0.00	0.00	0.00	0.00	5.0%
W	*6.3	3.1%	*6.3	*6.3	0.0	0.0	2.3%
WNW	*0.3	*1.4%	*0.3	*0.0	0.0	0.0	4.4%
WNW	0.00	1.2%	0.00	0.00	0.0	0.0	2.0%
WNW	0.00	*0.6	0.00	0.00	0.0	0.0	1.2%
WNW	0.00	0.00	0.00	0.00	0.0	0.0	0.0%
WNW	0.00	0.00	1.2%	0.0	0.0	0.0	1.2%
CWNW	0.00	0.00	1.2%	0.0	0.0	0.0	1.2%
CWNW	0.00	0.00	0.00	0.0	0.0	0.0	0.0%
TOTAL	7.12	25.40	45.91	19.31	1.69	0.00	0.00
TOTAL	7.55	25.15	45.91	19.31	1.69	0.00	0.00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.67

STABILITY CLASSIFICATION OF COPPER METALLIC STATION

NUMBER OF OCCUPANTS
PERCENT OCCUPANTS THIS CLASS
PERCENT OCCUPANTS ALL CLASSES

TABLE 2.68

POLY(4-VINYLPYRIDINE) POLYMERS AS STABILIZERS IN ABS

SUSTAINABILITY CLASSES: PRACTICALITY &

STABILITY CLASS: PASQUIL D
DATA SOURCE: OR-SITE
TABLE NUMBER: 1471
TABLE GENERATION DATE: 05/14/71
WEATHER NAME: 11-27-28
NAME: NARROW RIVER DISTRICT
NAME: NARROW RIVER DISTRICT

APPENDIX XXX NUMBER OF OCCURRENCES

TABLE 2.69

DATA PERIOD: AUGUST 1957-1958 OR STABILITY CLASS		STABILITY CLASS PERIOD E		COSTS OF REPAIRS AND STATION	
DATA SOURCE: OWNED		NUMBER OF OCCURRENCES		NUMBER OF OCCURRENCES THIS CLASS	
TIME SPAN: 10/67-07/68		PERCENT OCCURRENCES		PERCENT OCCURRENCES ALL CLASSES	
SOURCE	STABILITY CLASS	0-0.1-1.5	1.5-3.0	3.0-5.0	5.0-7.5
none	7	29	9	0	0
N.E.	>0.9	1.97	0.9	0.00	0.00
	<1.0	1.57	2.26	0.00	0.00
	>1.0	0.42	0.00	0.00	0.00
	<1.1	1.14	0.00	0.00	0.00
	>1.1	2.21	0.00	0.00	0.00
	<1.2	2.29	2.2	0.00	0.00
	>1.2	0.9	0.00	0.00	0.00
E.N.E.	>0.9	2.76	2.20	0.00	0.00
	<1.0	0.60	0.00	0.00	0.00
	>1.1	2.60	0.00	0.00	0.00
	<1.2	2.76	0.00	0.00	0.00
	>1.2	1.0	0.00	0.00	0.00
E.S.E.	>0.9	2.75	0.3	0.00	0.00
	<1.0	2.22	0.4	0.00	0.00
	>1.1	2.37	3.0	0.00	0.00
	<1.2	0.3	0.00	0.00	0.00
S.E.	>0.9	2.66	3.7	0.00	0.00
	<1.0	1.66	1.1	0.00	0.00
	>1.1	0.71	3.67	0.00	0.00
	<1.2	1.42	1.06	0.00	0.00
S.S.E.	>0.9	2.77	7.7	0.00	0.00
	<1.0	2.56	7.0	0.00	0.00
	>1.1	7.59	6.9	0.00	0.00
	<1.2	0.40	2.01	0.00	0.00
S.	>0.9	2.71	2.1	0.00	0.00
	<1.0	2.13	7.0	0.00	0.00
	>1.1	1.13	7.69	0.00	0.00
	<1.2	1.14	2.24	0.00	0.00
S.S.W.	>0.9	2.77	2.9	0.00	0.00
	<1.0	2.67	4.93	0.00	0.00
	>1.1	3.64	3.44	0.00	0.00
	<1.2	1.20	2.11	0.00	0.00
S.W.	>0.9	2.70	1.07	0.00	0.00
	<1.0	1.57	3.08	0.00	0.00
	>1.1	0.9	3.07	0.00	0.00
S.W.W.	>0.9	2.73	0.5	0.00	0.00
	<1.0	3.0	3.0	0.00	0.00
	>1.1	1.7	0.94	0.00	0.00
	<1.2	1.0	1.4	0.00	0.00
S.W.	>0.9	2.79	3.39	0.00	0.00
	<1.0	2.29	4.11	0.00	0.00
	>1.1	1.1	3.1	0.00	0.00
S.W.W.W.	>0.9	2.70	1.08	0.00	0.00
	<1.0	1.97	3.08	0.00	0.00
	>1.1	0.9	3.07	0.00	0.00
S.W.W.E.	>0.9	2.73	0.5	0.00	0.00
	<1.0	3.0	3.0	0.00	0.00
	>1.1	1.7	0.94	0.00	0.00
	<1.2	1.0	1.4	0.00	0.00
S.E.W.	>0.9	2.79	3.39	0.00	0.00
	<1.0	2.29	4.11	0.00	0.00
	>1.1	1.1	3.1	0.00	0.00
S.E.W.W.	>0.9	2.70	1.08	0.00	0.00
	<1.0	1.97	3.08	0.00	0.00
	>1.1	0.9	3.07	0.00	0.00
S.E.W.W.E.	>0.9	2.73	0.5	0.00	0.00
	<1.0	3.0	3.0	0.00	0.00
	>1.1	1.7	0.94	0.00	0.00
	<1.2	1.0	1.4	0.00	0.00
S.E.W.W.W.	>0.9	2.79	3.39	0.00	0.00
	<1.0	2.29	4.11	0.00	0.00
	>1.1	1.1	3.1	0.00	0.00
S.E.W.W.E.W.	>0.9	2.70	1.08	0.00	0.00
	<1.0	1.97	3.08	0.00	0.00
	>1.1	0.9	3.07	0.00	0.00
S.E.W.W.E.W.E.	>0.9	2.73	0.5	0.00	0.00
	<1.0	3.0	3.0	0.00	0.00
	>1.1	1.7	0.94	0.00	0.00
	<1.2	1.0	1.4	0.00	0.00
TOTAL	15.62	54.7	284	20	0
	15.98	53.94	28.01	1.97	0.00
	4.65	15.71	8.16	0.87	0.00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.70

JOINT STATEMENT OF THE STANDING COMMITTEE ON DEFENCE AND SECURITY

COMPILED BY THE STATION
WEATHER MONITORING DISTRICT
OF THE STATE PLANNING COMMISSION
DRAFT NO: 76-5-001-07

KEY XXX NUMBER OF OCCUPANCIES
XXX PERCENT OCCUPANCIES THIS CLASS
XXX PERCENT OCCUPANCIES OTHER CLASSES
XXX PERCENT OCCUPANCIES ALL CLASSES

TABLE 2.71

	WIN	LOSS	RECORD	SPEED	CATEGORIES	TYPE	PERCENT	TOTAL	PERCENT
0-0-1	1-5-1	3-0-0	3-5-1-0	0.00	0.00	0.00	0.00	5.15	1.20
0-0-2	5-1-5	0-0	0-0-0	0.00	0.00	0.00	0.00	5.15	1.14
0-0-3	-1-4	0-0	0-0-0	0.00	0.00	0.00	0.00	1-0-3	1.14
0-0-4	1-0-3	0-0	0-0-0	0.00	0.00	0.00	0.00	1-0-3	1.79
0-0-5	-0-0-3	0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0
0-0-6	0-0-0	0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0
0-0-7	0-0-0	0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0
0-0-8	0-0-0	0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0
0-0-9	1-0-1	2-0-2	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	1-5-5	1.54
0-0-10	-0-0-3	2-0-6	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	3-0-9	0.9
0-0-11	6-1-9	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	7-2-2	1.34
0-0-12	-1-7	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	2-0-0	1.55
0-0-13	2-0-2	3-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	5-1-5	1.55
0-0-14	-0-0-6	3-0-6	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	6-1-6	1.96
0-0-15	1-0-3	5-1-5	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	6-1-9	1.34
0-0-16	-0-0-5	1-1-4	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	1-1-7	1.17
0-0-17	5-1-5	10-1-1	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	15-4-6	1.74
0-0-18	-0-0-3	2-0-7	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	4-0-3	1.86
0-0-19	3-0-9	6-0-6	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	11-3-4	1.34
0-0-20	-0-0-9	6-0-7	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	11-3-2	1.34
0-0-21	3-0-9	4-0-4	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	6-1-6	1.40
0-0-22	-0-0-9	4-0-2	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	6-1-5	1.40
0-0-23	5-1-5	2-0-5	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	7-2-2	1.51
0-0-24	-0-0-14	2-0-6	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	7-2-0	1.86
0-0-25	1-0-3	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	2-0-0	1-4-9
0-0-26	-0-0-3	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	2-0-6	1.40
0-0-27	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	1-0-3	1.45
0-0-28	-0-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	1-0-3	1.34
0-0-29	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	1-0-3	1.34
0-0-30	-0-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0
0-0-31	5-1-5	5-1-5	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	10-3-1	1.46
0-0-32	-0-0-14	5-1-4	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	2-0-9	1.34
0-0-33	11-1-1	11-3-4	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	11-3-4	1.41
0-0-34	-0-0-14	4-2-4	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	9-7	1.41
0-0-35	56-1-58	42-1-58	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	100-0-0	1.41
0-0-36	-0-0-14	1-0-3	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	2-0-9	1.34

MAXIMUM OF OCCUPANCIES WITH CLASS

TABLE 2.72

POLY(1,4-PHENYLENE TEREPHTHALAMIDE) BY STIRRED MELT POLYMERIZATION

ALL CLASSES
DATA SOURCE: ON-SITE
WIND SENSOR #6169412 10.67 METERS
TURBINE GENERATOR: 05114777 11.572%
COURTESY OF THE STATE OF WISCONSIN
WEATHER & ENERGY
OPPORTUNITY DISTRICT
NAME AND NUMBER: 7635-001-07

TABLE 2.73

JOINT PERIOD FREQUENCY DURING 1960-1975 STATION CLASS		CLOUD NUMBER STATION				
SUSPENDED PARTICULATE		SP. MAM. HUMID.				
DATA SOURCE: ON-SITE		SUBSTRATE PUBLIC POWER DISTRICT				
WIND SENSING METHOD: 05A1477, 12+0.04.		JDN NO: 7835-001-07				
WIND SECTION	0.0-1.5	SPEED CATEGORIES	MEAN SPEED			
	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0-12.5	TOTAL MEAN SPEED
NAME	9	9	9	16	1	54
	*5.3	1-2.0	3-5.0	2-1.5	1-1.5	7-1.5
NE	*1.4	*2.4	*6.5	*4.5	*0.2	1-4.5
	*5.3	1-1.0	1-1.1	*2.5	*0.0	2-2.9
	*1.7	*2.7	*2.6	*2.7	*0.0	3-4.7
ENE	*0.0	*0.8	*0.6	*0.2	*0.5	3-6.6
	0-0.0	1-0.6	1-0.0	*2.7	*0.0	*7.4
	0-0.0	*2.2	*1.6	*0.0	*0.0	*1.6
E	0-0.0	*3	*4.0	*1.5	*0.0	*4.3
	0-0.0	*4.0	*4.0	*0.0	*0.0	*4.0
	0-0.0	*0.8	*0.3	*0.5	*0.0	*5.3
ESE	*1.3	*1.8	*1.5	*0.0	*0.0	*1.1
	*0.3	1-0.7	*0.6	*0.0	*0.0	*1.4
	*0.3	*7.2	*1.3	*0.0	*0.0	*7.6
SE	*1.0	*1.0	*1.6	*0.0	*0.0	*3.9
	*1.3	1-1.8	*6.0	*0.0	*0.0	*3.7
	*0.3	*2.0	*1.6	*0.0	*0.0	*2.6
SSE	0-0.0	*1.3	*2.5	*2.7	*0.0	*4.5
	0-0.0	*1.3	*2.6	*0.5	*0.0	*4.6
S	*1.1	*2.7	*0.6	*0.5	*0.3	*9.6
	*5.3	1-4.6	5-7.2	4-5.2	1-10	1-21
	*3.1	*3.0	1-0.8	*3.2	*1.3	1-10
SSW	*1.3	1-1.3	3-9.9	*1.5	*0.3	2-6.9
	*0.3	*3.5	*4.0	*3.6	*0.9	*9.3
SW	0-0.0	*1.7	*0.1	*8.1	*1.3	1-3.0
	0-0.0	2-7.0	*2.6	*2.0	*0.0	*4.7
	0-0.0	*4.6	*3.6	*3.7	*0.0	*7.6
WSW	*1.3	1-1.3	1-9.9	1-7.0	*1.5	1-2.0
	*0.3	*3.5	*4.0	*2.4	*1.3	*4.4
W	0-0.0	1-1.3	*1.2	*0.7	*0.0	*1.0
	0-0.0	*1.3	*1.6	*0.3	*0.0	*1.3
WNW	*0.0	*3	*3.2	*1.9	*0.0	*4.2
	*0.3	*3	*1.8	*1.9	*0.0	*3.6
	*4.0	*4.0	*2.9	*2.0	*0.0	*4.13
NW	*0.8	*0.5	*4.4	*2.4	*0.0	*2.6
	*0.3	*0.8	*1.7	*3	*0.0	*3.73
	*4.0	1-0.6	*2.6	*0.0	*1.1	*3.3
WNW	*0.8	*2.2	*4.6	*0.0	*1.3	*3.9
	*0.8	*2.2	*2.9	*1.4	*0.3	*4.6
	*2.7	1-7.3	3-8.9	1-10.6	*2.2	*6.2
N	*0.5	*3.5	*3.7	*3.8	*0.5	*8.2
	*0.6	3-7.3	*2.5	*3.6	*0.9	*3.3
	*0.6	3-7.6	3-7.2	*7.9	*0.0	*2.3
CALM	*9.3	*7	*6.7	*6.7	*0.8	*2.4
	*1.9					*0.7
TOTAL	4-36	22-74	39-79	192	4-3	5-19
	*47	*50	7-59	25-83	1-72	10-752
				5-16	1-16	*35-723

KEY
 XXX NUMBER OF OCCURRENCES
 XXX SECONC OCCURRENCES THIS CLASS
 XXX SECONC OCCURRENCES ALL CLASSES

TABLE 2.74

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS	
DATA PERIOD: SEPTEMBER 1975 - 1976	STABILITY CLASS: PASQUILL H	DATA SOURCE: ON-SITE	COUPLED NUCLEAR STATION
	WIND SENSORS HEIGHT: 10.67 METERS	NEBRASKA PUBLIC NAMES AND 400' DISTANCE	NEBRASKA PUBLIC POWER DISTRICT
TABLE GENERATED: 05/14/77.	12.00.08.	JOB NO: 7635-001-07	
WIND SECTOR	0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0 10.0-12.5 12.5-15.0 15.0-17.5 17.5-20.0 20.0-22.5 22.5-25.0 25.0-27.5 27.5-30.0 30.0-33.0 33.0-36.0 36.0-39.0 39.0-42.0 42.0-45.0 45.0-48.0 48.0-51.0 51.0-54.0 54.0-57.0 57.0-60.0 60.0-63.0 63.0-66.0 66.0-69.0 69.0-72.0 72.0-75.0 75.0-78.0 78.0-81.0 81.0-84.0 84.0-87.0 87.0-90.0 90.0-93.0 93.0-96.0 96.0-99.0 99.0-102.0 102.0-105.0 105.0-108.0 108.0-111.0 111.0-114.0 114.0-117.0 117.0-120.0 120.0-123.0 123.0-126.0 126.0-129.0 129.0-132.0 132.0-135.0 135.0-138.0 138.0-141.0 141.0-144.0 144.0-147.0 147.0-150.0 150.0-153.0 153.0-156.0 156.0-159.0 159.0-162.0 162.0-165.0 165.0-168.0 168.0-171.0 171.0-174.0 174.0-177.0 177.0-180.0 180.0-183.0 183.0-186.0 186.0-189.0 189.0-192.0 192.0-195.0 195.0-198.0 198.0-201.0 201.0-204.0 204.0-207.0 207.0-210.0 210.0-213.0 213.0-216.0 216.0-219.0 219.0-222.0 222.0-225.0 225.0-228.0 228.0-231.0 231.0-234.0 234.0-237.0 237.0-240.0 240.0-243.0 243.0-246.0 246.0-249.0 249.0-252.0 252.0-255.0 255.0-258.0 258.0-261.0 261.0-264.0 264.0-267.0 267.0-270.0 270.0-273.0 273.0-276.0 276.0-279.0 279.0-282.0 282.0-285.0 285.0-288.0 288.0-291.0 291.0-294.0 294.0-297.0 297.0-300.0 300.0-303.0 303.0-306.0 306.0-309.0 309.0-312.0 312.0-315.0 315.0-318.0 318.0-321.0 321.0-324.0 324.0-327.0 327.0-330.0 330.0-333.0 333.0-336.0 336.0-339.0 339.0-342.0 342.0-345.0 345.0-348.0 348.0-351.0 351.0-354.0 354.0-357.0 357.0-360.0 360.0-363.0 363.0-366.0 366.0-369.0 369.0-372.0 372.0-375.0 375.0-378.0 378.0-381.0 381.0-384.0 384.0-387.0 387.0-390.0 390.0-393.0 393.0-396.0 396.0-399.0 399.0-402.0 402.0-405.0 405.0-408.0 408.0-411.0 411.0-414.0 414.0-417.0 417.0-420.0 420.0-423.0 423.0-426.0 426.0-429.0 429.0-432.0 432.0-435.0 435.0-438.0 438.0-441.0 441.0-444.0 444.0-447.0 447.0-450.0 450.0-453.0 453.0-456.0 456.0-459.0 459.0-462.0 462.0-465.0 465.0-468.0 468.0-471.0 471.0-474.0 474.0-477.0 477.0-480.0 480.0-483.0 483.0-486.0 486.0-489.0 489.0-492.0 492.0-495.0 495.0-498.0 498.0-501.0 501.0-504.0 504.0-507.0 507.0-510.0 510.0-513.0 513.0-516.0 516.0-519.0 519.0-522.0 522.0-525.0 525.0-528.0 528.0-531.0 531.0-534.0 534.0-537.0 537.0-540.0 540.0-543.0 543.0-546.0 546.0-549.0 549.0-552.0 552.0-555.0 555.0-558.0 558.0-561.0 561.0-564.0 564.0-567.0 567.0-570.0 570.0-573.0 573.0-576.0 576.0-579.0 579.0-582.0 582.0-585.0 585.0-588.0 588.0-591.0 591.0-594.0 594.0-597.0 597.0-600.0 600.0-603.0 603.0-606.0 606.0-609.0 609.0-612.0 612.0-615.0 615.0-618.0 618.0-621.0 621.0-624.0 624.0-627.0 627.0-630.0 630.0-633.0 633.0-636.0 636.0-639.0 639.0-642.0 642.0-645.0 645.0-648.0 648.0-651.0 651.0-654.0 654.0-657.0 657.0-660.0 660.0-663.0 663.0-666.0 666.0-669.0 669.0-672.0 672.0-675.0 675.0-678.0 678.0-681.0 681.0-684.0 684.0-687.0 687.0-690.0 690.0-693.0 693.0-696.0 696.0-699.0 699.0-702.0 702.0-705.0 705.0-708.0 708.0-711.0 711.0-714.0 714.0-717.0 717.0-720.0 720.0-723.0 723.0-726.0 726.0-729.0 729.0-732.0 732.0-735.0 735.0-738.0 738.0-741.0 741.0-744.0 744.0-747.0 747.0-750.0 750.0-753.0 753.0-756.0 756.0-759.0 759.0-762.0 762.0-765.0 765.0-768.0 768.0-771.0 771.0-774.0 774.0-777.0 777.0-780.0 780.0-783.0 783.0-786.0 786.0-789.0 789.0-792.0 792.0-795.0 795.0-798.0 798.0-801.0 801.0-804.0 804.0-807.0 807.0-810.0 810.0-813.0 813.0-816.0 816.0-819.0 819.0-822.0 822.0-825.0 825.0-828.0 828.0-831.0 831.0-834.0 834.0-837.0 837.0-840.0 840.0-843.0 843.0-846.0 846.0-849.0 849.0-852.0 852.0-855.0 855.0-858.0 858.0-861.0 861.0-864.0 864.0-867.0 867.0-870.0 870.0-873.0 873.0-876.0 876.0-879.0 879.0-882.0 882.0-885.0 885.0-888.0 888.0-891.0 891.0-894.0 894.0-897.0 897.0-900.0 900.0-903.0 903.0-906.0 906.0-909.0 909.0-912.0 912.0-915.0 915.0-918.0 918.0-921.0 921.0-924.0 924.0-927.0 927.0-930.0 930.0-933.0 933.0-936.0 936.0-939.0 939.0-942.0 942.0-945.0 945.0-948.0 948.0-951.0 951.0-954.0 954.0-957.0 957.0-960.0 960.0-963.0 963.0-966.0 966.0-969.0 969.0-972.0 972.0-975.0 975.0-978.0 978.0-981.0 981.0-984.0 984.0-987.0 987.0-990.0 990.0-993.0 993.0-996.0 996.0-999.0 999.0-1002.0 1002.0-1005.0 1005.0-1008.0 1008.0-1011.0 1011.0-1014.0 1014.0-1017.0 1017.0-1020.0 1020.0-1023.0 1023.0-1026.0 1026.0-1029.0 1029.0-1032.0 1032.0-1035.0 1035.0-1038.0 1038.0-1041.0 1041.0-1044.0 1044.0-1047.0 1047.0-1050.0 1050.0-1053.0 1053.0-1056.0 1056.0-1059.0 1059.0-1062.0 1062.0-1065.0 1065.0-1068.0 1068.0-1071.0 1071.0-1074.0 1074.0-1077.0 1077.0-1080.0 1080.0-1083.0 1083.0-1086.0 1086.0-1089.0 1089.0-1092.0 1092.0-1095.0 1095.0-1098.0 1098.0-1101.0 1101.0-1104.0 1104.0-1107.0 1107.0-1110.0 1110.0-1113.0 1113.0-1116.0 1116.0-1119.0 1119.0-1122.0 1122.0-1125.0 1125.0-1128.0 1128.0-1131.0 1131.0-1134.0 1134.0-1137.0 1137.0-1140.0 1140.0-1143.0 1143.0-1146.0 1146.0-1149.0 1149.0-1152.0 1152.0-1155.0 1155.0-1158.0 1158.0-1161.0 1161.0-1164.0 1164.0-1167.0 1167.0-1170.0 1170.0-1173.0 1173.0-1176.0 1176.0-1179.0 1179.0-1182.0 1182.0-1185.0 1185.0-1188.0 1188.0-1191.0 1191.0-1194.0 1194.0-1197.0 1197.0-1200.0 1200.0-1203.0 1203.0-1206.0 1206.0-1209.0 1209.0-1212.0 1212.0-1215.0 1215.0-1218.0 1218.0-1221.0 1221.0-1224.0 1224.0-1227.0 1227.0-1230.0 1230.0-1233.0 1233.0-1236.0 1236.0-1239.0 1239.0-1242.0 1242.0-1245.0 1245.0-1248.0 1248.0-1251.0 1251.0-1254.0 1254.0-1257.0 1257.0-1260.0 1260.0-1263.0 1263.0-1266.0 1266.0-1269.0 1269.0-1272.0 1272.0-1275.0 1275.0-1278.0 1278.0-1281.0 1281.0-1284.0 1284.0-1287.0 1287.0-1290.0 1290.0-1293.0 1293.0-1296.0 1296.0-1299.0 1299.0-1302.0 1302.0-1305.0 1305.0-1308.0 1308.0-1311.0 1311.0-1314.0 1314.0-1317.0 1317.0-1320.0 1320.0-1323.0 1323.0-1326.0 1326.0-1329.0 1329.0-1332.0 1332.0-1335.0 1335.0-1338.0 1338.0-1341.0 1341.0-1344.0 1344.0-1347.0 1347.0-1350.0 1350.0-1353.0 1353.0-1356.0 1356.0-1359.0 1359.0-1362.0 1362.0-1365.0 1365.0-1368.0 1368.0-1371.0 1371.0-1374.0 1374.0-1377.0 1377.0-1380.0 1380.0-1383.0 1383.0-1386.0 1386.0-1389.0 1389.0-1392.0 1392.0-1395.0 1395.0-1398.0 1398.0-1401.0 1401.0-1404.0 1404.0-1407.0 1407.0-1410.0 1410.0-1413.0 1413.0-1416.0 1416.0-1419.0 1419.0-1422.0 1422.0-1425.0 1425.0-1428.0 1428.0-1431.0 1431.0-1434.0 1434.0-1437.0 1437.0-1440.0 1440.0-1443.0 1443.0-1446.0 1446.0-1449.0 1449.0-1452.0 1452.0-1455.0 1455.0-1458.0 1458.0-1461.0 1461.0-1464.0 1464.0-1467.0 1467.0-1470.0 1470.0-1473.0 1473.0-1476.0 1476.0-1479.0 1479.0-1482.0 1482.0-1485.0 1485.0-1488.0 1488.0-1491.0 1491.0-1494.0 1494.0-1497.0 1497.0-1500.0 1500.0-1503.0 1503.0-1506.0 1506.0-1509.0 1509.0-1512.0 1512.0-1515.0 1515.0-1518.0 1518.0-1521.0 1521.0-1524.0 1524.0-1527.0 1527.0-1530.0 1530.0-1533.0 1533.0-1536.0 1536.0-1539.0 1539.0-1542.0 1542.0-1545.0 1545.0-1548.0 1548.0-1551.0 1551.0-1554.0 1554.0-1557.0 1557.0-1560.0 1560.0-1563.0 1563.0-1566.0 1566.0-1569.0 1569.0-1572.0 1572.0-1575.0 1575.0-1578.0 1578.0-1581.0 1581.0-1584.0 1584.0-1587.0 1587.0-1590.0 1590.0-1593.0 1593.0-1596.0 1596.0-1599.0 1599.0-1602.0 1602.0-1605.0 1605.0-1608.0 1608.0-1611.0 1611.0-1614.0 1614.0-1617.0 1617.0-1620.0 1620.0-1623.0 1623.0-1626.0 1626.0-1629.0 1629.0-1632.0 1632.0-1635.0 1635.0-1638.0 1638.0-1641.0 1641.0-1644.0 1644.0-1647.0 1647.0-1650.0 1650.0-1653.0 1653.0-1656.0 1656.0-1659.0 1659.0-1662.0 1662.0-1665.0 1665.0-1668.0 1668.0-1671.0 1671.0-1674.0 1674.0-1677.0 1677.0-1680.0 1680.0-1683.0 1683.0-1686.0 1686.0-1689.0 1689.0-1692.0 1692.0-1695.0 1695.0-1698.0 1698.0-1701.0 1701.0-1704.0 1704.0-1707.0 1707.0-1710.0 1710.0-1713.0 1713.0-1716.0 1716.0-1719.0 1719.0-1722.0 1722.0-1725.0 1725.0-1728.0 1728.0-1731.0 1731.0-1734.0 1734.0-1737.0 1737.0-1740.0 1740.0-1743.0 1743.0-1746.0 1746.0-1749.0 1749.0-1752.0 1752.0-1755.0 1755.0-1758.0 1758.0-1761.0 1761.0-1764.0 1764.0-1767.0 1767.0-1770.0 1770.0-1773.0 1773.0-1776.0 1776.0-1779.0 1779.0-1782.0 1782.0-1785.0 1785.0-1788.0 1788.0-1791.0 1791.0-1794.0 1794.0-1797.0 1797.0-1800.0 1800.0-1803.0 1803.0-1806.0 1806.0-1809.0 1809.0-1812.0 1812.0-1815.0 1815.0-1818.0 1818.0-1821.0 1821.0-1824.0 1824.0-1827.0 1827.0-1830.0 1830.0-1833.0 1833.0-1836.0 1836.0-1839.0 1839.0-1842.0 1842.0-1845.0 1845.0-1848.0 1848.0-1851.0 1851.0-1854.0 1854.0-1857.0 1857.0-1860.0 1860.0-1863.0 1863.0-1866.0 1866.0-1869.0 1869.0-1872.0 1872.0-1875.0 1875.0-1878.0 1878.0-1881.0 1881.0-1884.0 1884.0-1887.0 1887.0-1890.0 1890.0-1893.0 1893.0-1896.0 1896.0-1899.0 1899.0-1902.0 1902.0-1905.0 1905.0-1908.0 1908.0-1911.0 1911.0-1914.0 1914.0-1917.0 1917.0-1920.0 1920.0-1923.0 1923.0-1926.0 1926.0-1929.0 1929.0-1932.0 1932.0-1935.0 1935.0-1938.0 1938.0-1941.0 1941.0-1944.0 1944.0-1947.0 1947.0-1950.0 1950.0-1953.0 1953.0-1956.0 1956.0-1959.0 1959.0-1962.0 1962.0-1965.0 1965.0-1968.0 1968.0-1971.0 1971.0-1974.0 1974.0-1977.0 1977.0-1980.0 1980.0-1983.0 1983.0-1986.0 1986.0-1989.0 1989.0-1992.0 1992.0-1995.0 1995.0-1998.0 1998.0-2001.0 2001.0-2004.0 2004.0-2007.0 2007.0-2010.0 2010.0-2013.0 2013.0-2016.0 2016.0-2019.0 2019.0-2022.0 2022.0-2025.0 2025.0-2028.0 2028.0-2031.0 2031.0-2034.0 2034.0-2037.0 2037.0-2040.0 2040.0-2043.0 2043.0-2046.0 2046.0-2049.0 2049.0-2052.0 2052.0-2055.0 2055.0-2058.0 2058.0-2061.0 2061.0-2064.0 2064.0-2067.0 2067.0-2070.0 2070.0-2073.0 2073.0-2076.0 2076.0-2079.0 2079.0-2082.0 2082.0-2085.0 2085.0-2088.0 2088.0-2091.0 2091.0-2094.0 2094.0-2097.0 2097.0-2100.0 2100.0-2103.0 2103.0-2106.0 2106.0-2109.0 2109.0-2112.0 2112.0-2115.0 2115.0-2118.0 2118.0-2121.0 2121.0-2124.0 2124.0-2127.0 2127.0-2130.0 2130.0-2133.0 2133.0-2136.0 2136.0-2139.0 2139.0-2142.0 2142.0-2145.0 2145.0-2148.0 2148.0-2151.0 2151.0-2154.0 2154.0-2157.0 2157.0-2160.0 2160.0-2163.0 2163.0-2166.0 2166.0-2169.0 2169.0-2172.0 2172.0-2175.0 2175.0-2178.0 2178.0-2181.0 2181.0-2184.0 2184.0-2187.0 2187.0-2190.0 2190.0-2193.0 2193.0-2196.0 2196.0-2199.0 2199.0-2202.0 2202.0-2205.0 2205.0-2208.0 2208.0-2211.0 2211.0-2214.0 2214.0-2217.0 2217.0-2220.0 2220.0-2223.0 2223.0-2226.0 2226.0-2229.0 2229.0-2232.0 2232.0-2235.0 2235.0-2238.0 2238.0-2241.0 2241.0-2244.0 2244.0-2247.0 2247.0-2250.0 2250.0-2253.0 2253.0-2256.0 2256.0-2259.0 2259.0-2262.0 2262.0-2265.0 2265.0-2268.0 2268.0-2271.0 2271.0-2274.0 2274.0-2277.0 2277.0-2280.0 2280.0-2283.0 2283.0-2286.0 2286.0-2289.0 2289.0-2292.0 2292.0-2295.0 2295.0-2298.0 2298.0-2301.0 2301.0-2304.0 2304.0-2307.0 2307.0-2310.0 2310.0-2313.0 2313.0-2316.0 2316.0-2319.0 2319.0-2322.0 2322.0-2325.0 2325.0		

TABLE 2.75

JOINT WIND FREQUENCY DISTRIBUTION STABILITY CLASS

DATA PERIOD: SEPTEMBER 1970-1975

STABILITY CLASS: PASQUILL C

DATA SOURCE: ON-SITE

WIND SENSORS HEIGHT: 10.07 METERS

TABLE GENERATED: 05/14/77; T: 12.00-04.

COUPED NUCLEAR STATION

SF 4A-11 NEWARK DISTRICT

GE HARRISBURG POWER DISTRICT

JOH NO: 7635-001-07

WIND SECTOR	0.0-1.5 M/S	SPEED CATEGORY	SECOND			SECOND			TOTAL		
			3.0-5.0	5.0-7.5	>7.5	3.0-5.0	5.0-7.5	>7.5	10.0	12.0	14.0
NNE	0.00	3.62	1.2	1	0	0	0	0	0	0	3.63
NE	0.00	*16	*64	*64	0.0	0.0	0.0	0.0	0.0	12.10	-51
E	*64	*64	1.27	1.27	0.1	0	0	0	0	0	3.59
ENE	*0.3	*0.3	*0.5	*0.5	*0.3	0.0	0.0	0.0	0.0	3.18	-13
ENE	0.00	*1	1.27	1.27	0.0	0.0	0.0	0.0	0.0	1.91	3.04
NE	0.00	*64	1.27	1.27	0.0	0.0	0.0	0.0	0.0	1.91	-05
E	0.00	*0.3	*0.5	*0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.77
ESE	0.00	*64	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	-64
SE	0.00	*64	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	-03
S	0.00	*0.3	*0.5	*0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.10
SW	0.00	*2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	1.27	-05
SSE	0.00	1.27	*64	0.00	0.0	0.0	0.0	0.0	0.0	0.0	2.46
SSE	0.00	*0.5	*0.5	*0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.91
SSE	0.00	3.18	3.18	3.18	1.27	0.0	0.0	0.0	0.0	0.0	3.32
S	0.00	*1.3	*1.3	*1.3	*0.5	0.0	0.0	0.0	0.0	0.0	-64
S	0.00	*64	1.4	1.4	*0.6	0.0	0.0	0.0	0.0	0.0	-32
SSE	0.00	2.55	4.46	3.46	3.42	0.0	0.0	0.0	0.0	0.0	4.05
SSE	0.00	*0.3	*1.1	*1.9	*1.6	0.0	0.0	0.0	0.0	0.0	1.18
SSE	0.00	2.55	4.46	4.46	*5.5	2.55	2.55	2.55	2.55	2.55	5.90
SSE	0.00	*1.1	*1.9	*1.9	*1.9	*1.1	*1.1	*1.1	*1.1	*1.1	1.70
SSE	0.00	*64	2.55	2.55	*6.4	*6.4	*6.4	*6.4	*6.4	*6.4	5.25
SSE	0.00	*0.3	*0.3	*1.1	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	4.05
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7.7	*7.7	*7.7	*7.7	*7.7	*7.7	4.48
SSE	0.00	*0.5	*1.1	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	*1.9	3.32
SSE	0.00	*64	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
SSE	0.00	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3	*0.3
SSE	0.00	1.27	2.55	2.55	*7						

TABLE 2.77

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

DATA PERIOD: September 1970 - 1975

STABILITY CLASS: PASQUILL F

DATA SOURCE: ON-SITE METEORS

WIND SENSOR HEIGHT: 10.57 METERS

TABLE GENERATED: 05/17/77 12:00:09.

WIND SECTOR	0.0-1.5 1.5-3.0	SPEED CATEGORY	CATEGORIES PER SECOND)			TOTAL
			0-5.0	5-7.5	7.5-10.0	
NNE	1.1	27	9	0	0	47
N	1.22	2.98	0.9	0.0	0.0	5.19
-30	-7.3	-2.4	0.0	0.0	0.0	1.26
NE	1.6	4	0.0	0.0	0.0	2.20
-55	1.77	-4	0.0	0.0	0.0	2.75
-13	4.3	-11	0.0	0.0	0.0	2.07
E	1.7	-13	0.0	0.0	0.0	2.15
-66	1.68	-3	0.0	0.0	0.0	2.57
-15	-4.6	-0.8	0.0	0.0	0.0	2.70
E	1.8	-18	0.0	0.0	0.0	1.96
-77	1.94	-22	0.0	0.0	0.0	2.94
-19	-4.8	-0.5	0.0	0.0	0.0	2.73
ESE	1.18	14	0.0	0.0	0.0	1.51
-99	1.55	-1	0.0	0.0	0.0	3.65
-48	-38	-0.3	0.0	0.0	0.0	2.69
SE	1.13	-29	0.0	0.0	0.0	2.49
-44	3.20	-77	0.0	0.0	0.0	2.41
SSE	1.35	-19	0.0	0.0	0.0	2.75
-88	3.87	5.5	0.0	0.0	0.0	11.05
-46	-94	1.43	0.0	0.0	0.0	2.60
S	1.10	82	1.10	0.0	0.0	2.04
-10	9.06	12.15	-22	0.0	0.0	22.54
SSW	-27	2.21	2.46	-0.5	0.0	5.49
-99	5.41	6.62	-2	0.0	0.0	13.40
-24	1.32	-6.5	-2	0.0	0.0	13.40
SW	1.29	-3.6	-0.5	0.0	0.0	7.76
-99	3.20	4.20	0.0	0.0	0.0	2.92
-24	-78	1.20	0.0	0.0	0.0	2.00
SW	-66	1.7	7.7	0.0	0.0	2.04
-16	-4.3	-1.9	0.0	0.0	0.0	2.04
-77	-6.6	-3.3	0.0	0.0	0.0	2.04
-19	-1.6	-0.8	0.0	0.0	0.0	2.04
SWN	-1	4	4	0.0	0.0	2.77
-11	-44	-44	0.0	0.0	0.0	9.9
-03	-11	-11	0.0	0.0	0.0	2.44
NW	1.10	66	88	0.0	0.0	2.44
-27	-16	-22	0.0	0.0	0.0	2.65
NNW	1.10	-29	-99	0.0	0.0	4.88
-10	3.20	-99	0.0	0.0	0.0	5.30
-27	-78	-24	0.0	0.0	0.0	2.22
N	2.1	21	1.16	0.0	0.0	4.46
-99	2.32	1.37	0.0	0.0	0.0	2.52
-24	-56	-43	0.0	0.0	0.0	1.24
CALM	2.10	0	0	0.0	0.0	2.19
TOTAL	167	398	336	44	0.0	5.71
18.45	43.98	37.13	44	0.0	0.0	2.58
4.49	10.70	9.04	11	0.0	0.0	24.34

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.77

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: September 1980 - 1985

STABILITY CLASS:	PASQUILL E	COOPED HURRIFAW STATION
DATA SOURCE:	ON-SITE	NE MARCH, NE NEBRASKA
WIND SENSOR HEIGHT:	10.07 METERS	NEHWAK CLOUDY POINT DISTRICT
TABLE GENERATED:	05/14/87.	DATES AND 40048E JOB#:
	12.00-04.	7635-001-07

WIND SECTOR	WIND SPEED	SPEED CATEGORIES (METERS PER SECOND)				TOTAL
		0-0.1-5	1.5-3.0	3.0-5.0	>5.0	
NNE	1.11	2.7	9	0	0	9
NNE	1.22	2.98	99	0*00	0*00	99
NNE	1.30	7.3	24	0*00	0*00	24
NNE	1.55	1.7	44	0*00	0*00	44
NNE	1.55	4.3	44	0*00	0*00	44
NNE	1.66	1.88	3	0*00	0*00	3
NNE	1.16	4.0	0*00	0*00	0*00	0*00
E	1.7	1.18	2	0*00	0*00	2
E	1.77	1.94	22	0*00	0*00	22
ESE	1.19	1.48	6	0*00	0*00	6
ESE	1.99	1.55	1	0*00	0*00	1
ESE	1.48	3.9	0*00	0*00	0*00	0*00
SE	1.13	1.44	0	0*00	0*00	0
SE	1.35	7.6	19	0*00	0*00	19
SSE	1.17	3.75	53	0*00	0*00	53
SSE	1.88	3.87	86	0*00	0*00	86
SSE	1.46	9.4	43	0*00	0*00	43
S	1.10	8.2	110	2	0*00	2
S	1.19	9.6	1215	22	0*00	22
SSE	1.27	2.21	96	*05	*00	*05
SSE	1.9	4.9	62	*2	*00	*2
SSE	1.92	5.42	65	*22	*00	*22
SSE	1.24	1.32	67	*05	*00	*05
SSE	1.59	2.79	38	*05	*00	*05
SSE	1.24	3.20	20	*00	*00	*00
SSE	1.66	7.8	102	*00	*00	*00
SSE	1.66	1.7	7	*00	*00	*00
SSE	1.16	1.73	77	*00	*00	*00
SSE	1.17	4.3	19	*00	*00	*00
SSE	1.19	6.6	3	*00	*00	*00
SSE	1.11	4.4	4	*00	*00	*00
SSE	1.03	1.1	41	*00	*00	*00
SSE	1.10	6.6	6	*00	*00	*00
SSE	1.17	1.6	66	*00	*00	*00
SSE	1.20	2.9	22	*00	*00	*00
SSE	1.10	3.20	99	*00	*00	*00
SSE	1.27	7.8	24	*00	*00	*00
SSE	1.09	2.1	16	*00	*00	*00
SSE	1.32	3.2	77	*00	*00	*00
CALM	1.19	24	43	*00	*00	*00
CALM	2.10	61	336	4	0*00	4
TOTAL	1.67	43.98	37.13	44	0*00	44
TOTAL	1.45	10.49	9.04	11	0*00	11
TOTAL	1.45	10.70	10.70	0*00	0*00	0*00
					100*00	100*00
					24*34	24*34
					100*00	100*00
					2.58	2.58

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.78

DATA PERIOD: SEPTEMBER 1970 - 1975		WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		COOPED MURKIN STATION		MURKIN PUBLIC POWER DISTRICT	
STABILITY CLASS: PASQUILLE F	DATA SOURCE: ON-SITE METEOROLOGICAL STATION	WIND SPEED: MEASUREMENTS	WIND DIRECTION: 05/14/77 12:00:00	WIND SPEED: MEASUREMENTS	WIND DIRECTION: 05/14/77 12:00:00	WIND SPEED: MEASUREMENTS	WIND DIRECTION: 05/14/77 12:00:00
WIND SECTION	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL
NNE	2.27	*.85	0.0	0.0	0.0	0.0	1.1
NE	*.22	*.08	0.00	0.00	0.00	0.00	3.12
NE	0.00	1.70	0.00	0.00	0.00	0.00	*.39
ENE	0.00	*.16	0.00	0.00	0.00	0.00	1.76
E	*.28	*.1	0.00	0.00	0.00	0.00	1.44
E	*.03	*.28	0.00	0.00	0.00	0.00	*.57
E	0.00	*.02	0.00	0.00	0.00	0.00	*.05
ESE	0.00	*.77	0.00	0.00	0.00	0.00	1.44
SE	*.28	*.57	0.00	0.00	0.00	0.00	*.85
SE	*.03	*.05	0.00	0.00	0.00	0.00	*.08
SSE	1.14	*.9	0.00	0.00	0.00	0.00	1.78
SSE	*.11	*.24	0.00	0.00	0.00	0.00	*.39
SSE	*.57	*.24	0.00	0.00	0.00	0.00	*.59
S	*.95	*.82	*.7	0.00	0.00	0.00	2.24
S	*.12	*.67	*.05	0.00	0.00	0.00	7.95
SSE	3.41	13.35	*.6	0.00	0.00	0.00	*.75
SSE	*.32	*.16	*.56	0.00	0.00	0.00	2.13
SSE	*.3	*.50	*.24	0.00	0.00	0.00	19.32
SSE	*.85	*.40	*.4	0.00	0.00	0.00	1.63
SSE	*.06	1.34	*.14	0.00	0.00	0.00	5.17
SSE	2.9	*.43	*.13	0.00	0.00	0.00	2.14
SSE	*.24	1.22	*.69	0.00	0.00	0.00	1.52
SSE	*.5	*.16	*.35	0.00	0.00	0.00	1.75
SSE	1.42	*.41	*.12	0.00	0.00	0.00	1.92
SSE	*.13	*.32	*.28	0.00	0.00	0.00	5.11
SSE	*.45	*.9	*.03	0.00	0.00	0.00	16.19
SSE	*.42	*.56	*.28	0.00	0.00	0.00	1.53
SSE	*.13	*.24	*.03	0.00	0.00	0.00	4.26
SSE	*.5	*.3	*.0	0.00	0.00	0.00	*.40
SSE	1.42	*.85	*.00	0.00	0.00	0.00	2.28
SSE	*.13	*.08	*.00	0.00	0.00	0.00	1.20
SSE	*.52	*.57	*.24	0.00	0.00	0.00	*.22
SSE	*.05	*.03	*.00	0.00	0.00	0.00	1.69
SSE	*.8	*.5	*.0	0.00	0.00	0.00	*.42
SSE	*.57	*.42	*.00	0.00	0.00	0.00	*.13
SSE	*.22	*.13	*.00	0.00	0.00	0.00	3.69
SSE	*.12	*.9	*.00	0.00	0.00	0.00	*.35
SSE	3.41	*.56	*.00	0.00	0.00	0.00	1.48
CALM	*.32	*.24	*.00	0.00	0.00	0.00	5.97
CALM	*.17	*.00	*.00	0.00	0.00	0.00	*.56
TOTAL	94	227	*.31	0.00	0.00	0.00	0.00
TOTAL	26.70	64.49	*.81	0.00	0.00	0.00	100.00
TOTAL	26.53	64.11	*.63	0.00	0.00	0.00	100.00

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.79

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		COOPED NUCLEAR STATION YF MAR-A, YF HUA-A YF HUA-A PUBLIC POWER DISTRICT DANES AND MOONE JOB NO: 7635-031-07									
WIND SECTION	WIND SECTOR	SPEED CATEGORY	MIN 1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0-12.5	12.5-15.0	15.0-17.5	17.5-20.0	TOTAL
NNE	7	0	0	0	0	0	0	0	0	0	1.25
	3.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.21
	*1.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*1.9
NE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55
	*4.6	*4.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*4.6
	*0.3	-0.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*0.3
E	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49
	*4.6	*4.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*4.6
	*0.3	*0.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*0.3
ESE	0.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60
	1.83	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60
	*1.1	*0.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*1.1
SE	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38
	2.29	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29
SSE	1.3	*1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31
	1.3	1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31
SSE	1.38	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67
S	0.8	*1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60
	0.8	*1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*1.7
S	3.42	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.47
	*2.2	*4.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*11.47
SSE	1.83	5.12	*0.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84
	*1.1	*3.2	*0.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*1.1
SSE	4.10	6.14	1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40
	4.59	6.42	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.59
	*2.7	*3.6	*0.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*2.7
SSE	5.05	5.12	*1.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.05
	*3.0	*4.0	*0.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*3.0
	6.88	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.88
	*4.0	*4.0	*2.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*4.0
NNW	7	2	0	0	0	0	0	0	0	0	1.20
	3.21	9.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.21
NNW	1.1	0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1
	*1.9	*0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*1.9
NNW	2	1.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2
	*9.2	6.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*9.2
NNW	0.5	*3.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5
NNW	1.4	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45
NNW	1.63	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63
N	1.11	-0.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11
	3.67	3.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67
CALM	1.2	*1.9	*0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2
	5.50	5.32	0	0	0	0	0	0	0	0	5.50
TOTAL	46102	110	0	0	0	0	0	0	0	0	232
	46.74	50.46	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	218
	2.74	2.95	.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.86

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.80

Journal of Nonlinear Dynamics and Statistical Methods

ALL CLASSES: ON-SITE
WIND SENSORS: 10-07 METEOR 09
TABLE GENERATOR 05/14/97
NAME AND NO. 12-00-04-
DAMES AND WOOLF JOHN NO: 75-001-07

WIND SECTOR	0-0.15 0.15-3.0 3.0-5.0 5.0-7.5 7.5-10.0	SPEED CATEGORY	MEAN SPEED SECS/001	MEAN SPEED SECS/001		TOTAL SPEED SECS/001
				0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0	>10.0	
NNE	.33	0.7	1.30	.27	.4	0
	*.89	2.34	3.50	*.73	*.11	0.00
NE	1.4	1.59	1.34	*.19	*.11	0.00
	*.38	1.59	1.34	*.19	*.11	0.00
ENE	9	1.66	3.0	2	0	0
	*.24	1.78	*.81	*.05	*.00	0.00
E	14	1.49	27	0	0	0
	*.38	1.32	*.73	0.00	0.00	0.00
ESE	28	1.58	30	0	0	0
	*.75	1.56	*.81	0.00	0.00	0.00
SE	35	2.69	57	11	0	0
	*.94	2.39	1.53	*.30	*.00	0.00
SSE	36	1.16	144	22	1	0
	*.97	3.12	3.67	*.54	*.03	0.00
S	36	2.08	261	69	10	1
	*.97	5.59	7.02	1.66	*.27	*.03
SSW	19	1.52	138	92	31	13
	*.51	4.09	3.71	2.47	*.83	*.35
SSE	35	1.19	94	9	0	0
	*.94	3.20	2.53	1.16	*.24	*.00
SSW	28	1.65	35	10	1	0
	*.75	1.75	*.94	*.27	*.03	0.00
SW	36	1.47	29	7	0	0
	*.97	1.26	*.78	*.19	*.00	0.00
SWW	20	1.19	28	9	0	0
	*.54	*.51	*.75	*.24	*.00	0.00
WW	20	1.04	40	6	1	0
	*.54	*.02	1.08	*.22	*.03	*.03
WWW	31	6.7	94	42	4	2
	*.83	1.80	2.53	1.13	*.11	*.05
W	46	1.06	153	69	11	0
	1.24	2.85	4.12	1.86	*.11	0.00
CALM	88	2.37	1340	11.419	69	17
	1.420	36.04	11.27	1.86	*.46	2.37
TOTAL	528	1345	1340	11.419	69	17
	1.420	36.04	11.27	1.86	*.46	2.37
						3718
						100.00
						3.20

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES
 NUMBER OF VALID OBSERVATIONS 3718
 NUMBER OF INVALID OBSERVATIONS 602
 TOTAL NUMBER OF OBSERVATIONS 4320

TABLE 2.81

		JOINT WIND FREQENCY DISTRIBUTION BY STABILITY CLASS							
		STABILITY CLASS: PASQUILL A			CLOUDY NOON EAST STATION				
		DATA SOURCE: ON-SITE			GEORGIA PUBLIC POWER DISTRICT				
		WIND SPEED: 0.0-1.5 METERS TABLE GENERATOR: 0.5-1.77, 1.2-0.50.			DAYS AND MONTHS PER				
WIND SECTION	SECTOR	0.0-1.5 SE-3.0	1.5-3.0	3.0-7.5	5.0-7.5	7.5-10.0	10.0-12.5	12.5-15.0	TOTAL
WNE	NNE	3	1.0	1.0	1.2	2	0	0	3.7
		-4.3	1-4.3	1-4.3	1-7.2	-2.9	0-0	0-0	5.31
		-0.7	-2.4	-2.4	-2.9	-0.7	0-0	0-0	-0.91
NE	N	2	-4	-6	-6	-0	0-0	0-0	4.16
		-2.9	-5.7	-6	-10	-1.4	0-0	0-0	-2.73
		-0.5	-1.0	-1.5	-1.5	-0.2	0-0	0-0	-0.47
ENE	E	2	-2	-2	-2	0-0	0-0	0-0	3.21
		-2.9	-2.9	-2.9	-2.9	0-0	0-0	0-0	-1.29
		-0.5	-0.5	-1.2	-1.2	0-0	0-0	0-0	-0.22
		0	0.8	0.8	0.8	0-0	0-0	0-0	2.21
		-0.0	1-1.5	0-0	0-0	0-0	0-0	0-0	1.15
		0.0	-2.0	0-0	0-0	0-0	0-0	0-0	-0.20
ENE	EE	1	-3	-1	-1	0-0	0-0	0-0	2.36
		-14	-4.3	-1.4	-1.4	0-0	0-0	0-0	-1.5
		-0.2	-0.7	-0.2	-0.2	0-0	0-0	0-0	-0.12
SE	SE	0	-0.7	-1.7	-1.7	0-0	0-0	0-0	4.28
		0-0	1-0.0	2-4.4	1-4.4	0-0	0-0	0-0	-0.88
		0-0	-1.7	-4.2	-4.2	0-0	0-0	0-0	-0.83
SSE	SSW	2	-1.3	-2.0	-1.7	0-0	0-0	0-0	4.90
		-2.9	1-6.7	2-8.7	2-4.4	1-2.9	0-0	0-0	-0.75
		-0.5	-3.2	-4.9	-4.2	-2.2	0-0	0-0	-1.49
S	S	3	-6	-1.5	-2.6	-1.9	-1.9	-1.9	6.06
		-4.3	-8.6	2-1.5	3-7.3	2-7.3	-2.9	10-19	-0.74
		-0.7	-1.5	-1.4	-1.4	-0.2	-0.2	-0.2	-0.60
SSW	SW	2	-1.5	-2.9	2-0.1	2-5.8	3-1.6	-2.9	6.64
		-2.9	-2.9	-3.4	-3.4	-3.4	-3.4	-3.4	-0.61
SW	SW	2	-1.3	-2.3	-2.3	-1.5	-1.5	-1.5	5.11
		-1-6.7	-3-3.0	-2-1.5	-2-1.5	-1-1.5	-1-1.5	-1-1.5	-0.65
		-0.5	-3.2	-5.6	-3.7	-2.0	-2.0	-2.0	-0.53
SSW	SW	2	-1.4	-1.7	-1.7	0-0	0-0	0-0	3.32
		-2.9	-2-1.4	2-4.4	2-4.4	-1.4	0-0	0-0	-0.16
		-0.5	-3.4	-4.2	-4.2	-0.5	-0.2	-0.2	-0.88
W	W	2	-2.0	-2.0	-1.6	-1.6	-1.6	-1.6	3.22
		-2.9	-2.87	-4.6	-1-1.5	-1-1.5	-1-1.5	-1-1.5	-0.41
		-0.5	-4.9	-1.5	-2.0	-0.2	-0.0	-0.0	-0.91
NNW	NNW	3	-6	-1.1	-1.1	-1.1	-1.1	-1.1	4.04
		-7.2	1-1.5	2-5.8	1-5.8	-1.4	-1.4	-1.4	-0.46
		-1.2	-2.0	-4.4	-4.4	-2.7	-0.7	0-0	1-1.10
NNW	NNW	3	-8	-1.2	-1.2	-1.6	-1.6	-1.6	5.26
		-4.3	1-1.5	1-2.2	2-3.9	1-2.9	-2.9	-2.9	-0.32
		-0.7	-2.0	-2.9	-2.9	-2.2	-0.7	-0.7	-1.25
NNW	NNW	0	0	3-2.1	4-4.5	-7.2	0-0	0-0	5.12
		0.0	1-2.9	3-5.1	4-4.5	-7.2	0-0	0-0	-0.47
		-0.0	-2.2	-5.1	-7.6	-1.2	0-0	0-0	1-0.62
N	N	6	-1.5	-2.15	-4.52	-2.4	-2.4	-2.4	4.06
		-8.6	2-1.5	4-5.2	3-4.4	-2.9	0-0	0-0	11-33
		-1.5	-3	-7.8	-5.9	-0.5	0-0	0-0	-1.93
CALM	CALM	14	2-0.1	-	-	-	-	-	2.01
		-3.4	-14.2	21.7	19.6	82	-	-	-0.34
TOTAL	TOTAL	49	7-0.3	20-3.7	31-1.3	28-1.2	11-7.6	1-11	6.97
		1-2.0	3-4.8	5-3.1	4-3.0	2-0.1	-2.7	100-00	4.66
									17-07
KEY		XXX	NUMBER OF OCCURRENCES						
		XXX	PERCENT OCCURRENCES THIS CLASS						
		XXX	PERCENT OCCURRENCES ALL CLASSES						

TABLE 2.82

DRAFT PRACTICE GUIDE TO THE MCY 01970-1998

STABILITY CLASS: PASQUILL A
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10' 07"
TABLE GENERATED: 05/14/07 12:02:50
CHIPEWAN RIVER STATION
NORTHWEST PUBLIC WORKS DISTRICT
DATE: 05/14/07 JOB NO: 7635-001-07

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.83

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

		COOPED NUCLEAR STATION OMAHA, NEBRASKA						NUCLEAR PUBLIC DISTRICT OMAHA AND METROPOLITAN AREA					
		DATA SOURCE: ON-SITE WIND SENSOR HEIGHT: 10.57 METERS TABLE GENERATED: 05/14/77 12:02:50.						DATA AND MODE: JUN 1977 JOH NO: 7635-001-07					
WIND SECTOR	0.0-1.5 1.5-3.0 3.0-5.0	SPEED CATEGORIES (METERS PER SECOND)						TOTAL					
		0	1	2	3	4	5	0	1	2	3	4	5
NNE	0.00	0.00	5.2	4.15	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94
NE	0.00	0.00	0.2	2.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70
E	0.00	0.00	5.2	1.04	5.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.92
ENE	0.00	0.00	0.2	0.05	5.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07
EE	0.00	0.00	0.0	0.0	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02
E	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EESE	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	5.2	2.07	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21
SSE	0.00	0.00	0.2	2.10	0.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0
S	0.00	0.00	1.04	2.07	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.05
S	0.00	0.00	0.5	1.05	2.10	1.53	0.00	0.00	0.00	0.00	0.00	0.00	5.19
SSW	0.00	0.00	2.07	5.18	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.78
SW	0.00	0.00	1.0	2.44	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.63
SW	0.00	0.00	1.55	3.63	3.63	1.04	0.00	0.00	0.00	0.00	0.00	0.00	5.47
SSW	0.00	0.00	0.2	2.0	2.29	0.05	0.00	0.00	0.00	0.00	0.00	0.00	4.21
SW	0.00	0.00	0.2	2.10	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.63
SW	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.63
SW	0.00	0.00	0.5	3.17	1.12	0.05	0.00	0.00	0.00	0.00	0.00	0.00	4.07
SW	0.00	0.00	0.1	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.09
SW	0.00	0.00	5.2	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.78
SW	0.00	0.00	0.2	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91
SW	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91
SW	0.00	0.00	0.5	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91
SW	0.00	0.00	0.1	0.0	0.3	0.05	0.00	0.00	0.00	0.00	0.00	0.00	3.91
SW	0.00	0.00	5.2	0.00	1.55	0.2	0.00	0.00	0.00	0.00	0.00	0.00	2.59
NW	0.00	0.00	0.2	0.0	0.7	0.2	0.00	0.00	0.00	0.00	0.00	0.00	2.0
NW	0.00	0.00	1.55	3.16	3.16	1.04	0.00	0.00	0.00	0.00	0.00	0.00	3.91
NW	0.00	0.00	0.2	0.7	1.15	0.5	0.00	0.00	0.00	0.00	0.00	0.00	3.91
NW	0.00	0.00	2.59	4.15	4.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.55
N	0.00	0.00	2.12	2.0	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.29
N	0.00	0.00	5.70	10.36	4.66	1.04	0.00	0.00	0.00	0.00	0.00	0.00	21.76
CALM	0.00	0.27	4.49	2.22	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03
TOTAL	2.07	18.65	84	30.58	4.15	3	0.02	0.02	0.02	0.02	0.02	0.02	4.52
	-10	.88	2.06	1.42	*20	*0.7	0.02	0.02	0.02	0.02	0.02	0.02	4.73

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.84

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

STABILITY CLASS: PASAULL D
 DATA SOURCE: ON-SITE
 WIND SENSOR HEIGHT: 10.67 METERS
 TABLE GENERATED: 05/14/77*

#IND	SECTOR	WIND SPEED CATEGORIES PER SECOND				TOTAL	MEAN SPEED
		0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5		
NNE	9	2.9	2.2	1.0	0	0	7.0
	7.5	2.42	1.63	0.43	0.00	0.00	3.14
	2.2	1.71	0.54	0.24	0.00	0.00	2.01
	5.0	1.42	2.00	1.7	0.00	0.00	1.71
	1.5	1.17	0.24	0.00	0.00	0.00	0.82
NE	5.0	0.59	0.59	0.3	0.00	0.00	0.79
	1.1	0.42	0.24	0.00	0.00	0.00	0.50
	0.5	0.3	0.00	0.00	0.00	0.00	0.20
ENE	1.1	0.50	0.50	0.3	0.00	0.00	1.16
	0.5	0.2	0.15	0.00	0.00	0.00	0.33
E	0.2	0.15	0.15	0.07	0.00	0.00	0.39
	0.1	0.09	0.09	0.07	0.00	0.00	0.17
	0.05	0.04	0.04	0.00	0.00	0.00	0.08
ESE	0.02	0.02	0.02	0.00	0.00	0.00	0.02
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSW	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	7.05	31.3	53.3	27.9	3.34	2	1.15
	2.08	26.08	44.42	19.04	3.17	17	1.00
		7.67	13.05	5.61	4.3	4.3	29.30

KEY
 XXX NUMBER OF OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.85

JOINT MODEL FOR UNIVARIATE AND MULTIVARIATE SURVIVAL DATA

STABILITY CLASS: DASQUILL E
DATA SOURCE: ON-SITE
WIND SENSORS HEIGHT: 05/14/97 12:02:50
TIME GENERATED: 05/14/97 12:02:50

TABLE 2.86

DATA PERIOD: OCTOBER 1970-1975

STABILITY CLASS: PASQUILL F

DATA SOURCE: ON-SITE

WIND SENSOR HEIGHT: 10.57 METERS

TABLE GENERATED: 05/14/77.

12.02.50.

COOPED NEUMANN STATION
OMAHA, NEBRASKA
NEBRASKA PUBLIC POWER DISTRICT
DAMES AND WOODS JOB NO: N35-001-07

WIND SECTOR	SPEED CATEGORIES PER SECOND)					>10.0	TOTAL	MEAN SPEED
	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.0	>7.0			
NNE	1.44	1.2	1	0	0	0	0	1.68
NNE	1.17	2.87	*21	0.09	0.00	0.00	0.00	4.12
NE	1.44	1.4	0.0	0.00	0.00	0.00	0.00	*59
NE	1.17	H2	0.00	0.00	0.00	0.00	0.00	1.40
E	1.44	1.0	0.00	0.00	0.00	0.00	0.00	2.20
E	1.17	*41	0.00	0.00	0.00	0.00	0.00	1.45
EE	1.03	*41	0.00	0.00	0.00	0.00	0.00	1.44
E	1.12	*05	0.00	0.00	0.00	0.00	0.00	*17
E	0.92	1.03	0.00	0.00	0.00	0.00	0.00	1.53
ESE	*07	*12	0.00	0.00	0.00	0.00	0.00	1.65
ESE	1.23	*41	0.00	0.00	0.00	0.00	0.00	*20
SE	1.15	*05	0.00	0.00	0.00	0.00	0.00	1.19
SE	1.3	1.9	1.05	0.00	0.00	0.00	0.00	1.65
SE	0.62	3.41	1.03	0.00	0.00	0.00	0.00	*20
SSE	*07	*41	*12	0.00	0.00	0.00	0.00	1.56
SSE	1.85	8.0	*11	0.00	0.00	0.00	0.00	*20
S	1.22	*09	2.26	*21	*21	0.00	0.00	1.68
S	1.65	6.3	*25	*02	*02	0.00	0.00	2.13
SSE	1.20	1.54	*12	0.00	0.00	0.00	0.00	1.76
SSE	0.88	4.0	*13	0.00	0.00	0.00	0.00	1.64
SSE	1.65	8.23	*27	0.00	0.00	0.00	0.00	2.29
SSE	1.20	*09	*32	0.00	0.00	0.00	0.00	1.66
SSE	1.2	7.41	*65	0.00	0.00	0.00	0.00	2.35
SSE	2.47	*29	*60	0.00	0.00	0.00	0.00	1.61
SSE	1.8	3.70	*21	0.00	0.00	0.00	0.00	1.66
SSE	1.65	3.70	*21	0.00	0.00	0.00	0.00	1.66
SSE	1.20	*44	*02	0.00	0.00	0.00	0.00	1.66
SSE	1.65	3.29	*21	0.00	0.00	0.00	0.00	1.66
SSE	1.20	*39	*02	0.00	0.00	0.00	0.00	1.66
SSE	1.23	2.05	*21	0.00	0.00	0.00	0.00	1.66
SSE	1.15	*24	*02	0.00	0.00	0.00	0.00	1.66
SSE	1.11	2.12	*00	0.00	0.00	0.00	0.00	1.66
SSE	2.26	2.47	0.00	0.00	0.00	0.00	0.00	1.66
SSE	2.26	*27	0.00	0.00	0.00	0.00	0.00	1.66
SSE	1.05	*5	*15	*21	0.00	0.00	0.00	1.66
SSE	1.03	3.09	*21	0.00	0.00	0.00	0.00	1.66
SSE	1.12	*16	*02	0.00	0.00	0.00	0.00	1.66
SSE	2.06	3.24	*21	0.00	0.00	0.00	0.00	1.66
CALM	1.0	*24	*39	*02	0.00	0.00	0.00	1.66
CALM	2.06	2.24	0.00	0.00	0.00	0.00	0.00	1.66
TOTAL	126	310	45	*21	*21	0.00	0.00	2.24
TOTAL	25.93	63.79	9.68	*21	*21	0.00	0.00	2.01
TOTAL	3.09	7.59	1.18	*02	*02	0.00	0.00	1.40

KEY
XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.87

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		
STABILITY CLASS: PASSIVE 6		NUCLEAR STATION		
DATA SOURCE: ON-SITE		NUCLEAR POWER DISTRICT		
WIND SPEED: 0-1.5 MPH		WIND SPEED: 1.5-3.0 MPH		
SECTOR	FEQUENCIES	FEQUENCIES	FEQUENCIES	
	0-10.0	10.1-15.0	>15.0	TOTAL
NNE	0	0	0	0
N	1.68	1.12	0.00	0.00
NE	-1.15	-1.0	-0.00	-0.00
E	1.4	1.3	0.00	0.00
ENE	1.12	1.07	0.00	0.00
EE	1.68	2.8	0.00	0.00
ESE	-1.15	-0.2	-0.00	-0.00
SE	1.4	0	0.00	0.00
SSE	1.12	0.00	0.00	0.00
S	-1.10	0.00	0.00	0.00
SSW	1.68	1.40	0.00	0.00
SW	-1.15	-1.2	-0.00	-0.00
WSW	1.4	1.40	1.12	0.00
W	-1.12	-1.2	-1.10	0.00
WNW	1.35	4.19	2.9	0.00
NNW	-2.29	-3.7	-0.2	-0.00
NEW	3.18	5.4	0	0.00
NEW	-3.63	15.08	0.00	0.00
NEW	-3.32	1.32	0.00	0.00
NEW	1.18	0	0.00	0.00
NEW	5.03	8.30	1.68	0.00
NEW	-4.4	-7.3	-1.15	-0.00
NEW	3.35	3.63	2.8	0.00
NEW	-2.29	-3.2	-0.2	-0.00
NEW	1.68	3.63	0.00	0.00
NEW	-1.15	-3.2	0.00	0.00
NEW	2.51	1.97	2.8	0.00
NEW	-2.22	-1.7	-0.2	-0.00
NEW	2.51	2.10	0	0.00
NEW	-2.22	-2.4	0.00	0.00
NEW	1.68	2.79	2.8	0.00
N	-1.15	-2.4	-0.2	-0.00
CALM	1.68	2.51	2.8	0.00
CALM	-1.15	-2.2	0.2	0.00
TOTAL	16.1	18.2	15	0
KEY	XXX NUMBER OF OCCURRENCES THIS CLASS	XXX PERCENT OCCURRENCES THIS CLASS	XXX PERCENT OCCURRENCES ALL CLASSES	
	44.97	50.84	4.19	0
	3.94	4.46	3.37	0

TABLE 2.88

JOINT UNION FEDERATION OF STATE AND LOCAL LABOR UNIONS

ALL CLASSES
DATA SOURCES: ON-SITE
TWO SENSORS/EIGHT
TAC-E GENERATOR: 05/14/97 * 12:52:50 *

WIND SECTION	WIND DIRECTION	SPEED CATEGORY	CATEGORIES			PER SECOND(%)	>10.0 TOTAL
			0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0	1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0	1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0		
NNE	NNE	7.3	7.0	1.49	1.49	29 6.9	2 0.0
NE	NE	2.3	5.8	3.86	3.86	22 1.2	2 0.0
ENE	ENE	1.7	2.5	1.17	1.17	3 0.0	0 0.0
E	E	1.7	6.1	4.42	4.42	0.7 0.0	0 0.0
ESE	ESE	1.7	3.7	2.1	2.1	15 0.0	0 0.0
S	S	2.0	9.1	5.51	5.51	15 0.0	0 0.0
SE	SE	2.49	10.9	1.02	1.02	22 0.0	0 0.0
SSE	SSE	1.03	3.33	1.79	1.79	52 1.27	15 0.0
S	S	1.22	1.97	4.38	4.38	127 1.27	7 0.0
SSW	SSW	3.8	4.19	1.96	1.96	1.27 1.11	1.15 1.15
SW	SW	1.50	2.67	4.80	4.80	4.7 1.15	7 1.17
WSW	WSW	0.83	1.71	1.60	1.60	70 1.15	32 0.0
W	W	3.4	7.0	3.92	3.92	1.71 1.71	78 78
WNW	WNW	0.83	1.71	1.09	1.09	81 1.03	18 4.4
NNW	NNW	3.5	4.49	1.98	1.98	4.2 1.03	4 1.0
N	N	3.5	4.49	1.49	1.49	52 1.24	10 2.0
CALM	CALM	7.5	1.84	1.42	1.42	67 69	12 1.2
TOTAL	TOTAL	14.30	35.02	14.30	14.30	152 3.40	17 4.053

NUMBER OF VALID OBSERVATIONS 4083
NUMBER OF INVALID OBSERVATIONS 361
TOTAL NUMBER OF OBSERVATIONS 4444

TABLE 2.89

JOINT WIND FREQUENCY DISTRIBUTION AND STABILITY CLASSES
DATA PERIOD: NOVEMBER 1976-1979,
STABILITY CLASS: PASTORAL A
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.67 METERS
TABLE GENERATED: 09/14/77 12:05:35.
CROWDFIELD BOUNDARY STATION,
NORTH MARSH, NE BRITISH COLUMBIA, PUBLIC POWER DISTRICT
DAMSES AND WOODS JOB NO: 7635-001-07

KEY XXX NUMBER OF OCCURRENCES
 XXX POSITION OCCURRENCE THIS CLASS
 XXX PRECISE OCCURRENCE ALL CLASSES

TABLE 2.91

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
Data Period: November 1970 - July 1975

		CLOUDY NUCLEAR STATION											
		OMAHA, NEBRASKA											
		PUBLIC POWER DISTRICT DAMES AND MORE										JOB NO: 76-35-01-07	
WIND SECTOR	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5	TOTAL	MEAN SPED
NNE	0.0	0.0	1.20	1.11	1.02	3.78	2.94	1.66	1.44	3.4	6.17		
NE	0.0	0.0	0.7	0.20	0.5	2.10	4.2	0.0	0.0	1.10	1.62		
E	0.0	0.0	0.42	0.04	0.05	1.12	0.02	0.00	0.00	0.00	3.71		
ENE	0.0	0.0	0.2	0.05	0.02	1.4	0.00	0.00	0.00	0.00	2.48		
EE	0.0	0.0	0.14	0.04	0.02	0.00	0.00	0.00	0.00	0.00	1.26		
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.07		
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.02		
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
TOTAL	2.10	1.5	15.55	37	87	24.70	13.45	3.32	2.47	2.49	1.00	5.08	
	.12		*.89	2.09		1.68		*.77		*.17		5.71	

KEY XXX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS
XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.92

		JOINT WIND FREQUENCY DISTRIBUTION AT STABILITY CLASS							
		CHOPED NUCLIFAR STATION							
		OMAHA - NEBRASKA							
		WIND SPEED AND DIRECTION							
		NAME AND NUMBER							
STABILITY CLASS:		Pasquill D							
DATA SOURCE:		ON-SITE							
WIND SPEED AND HEIGHT:		10.67 METERS							
TABLE GENERATED:		05/14/77, 12:05:35.							
WIND SECTION:		0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0		
NNE		55	62	24	12	10	177	TOTAL	
NE		2.94	3.32	1.28	.64	.24	9.46	MEAN SPEED	
E		1.32	1.49	.58	.29	.24	4.25		
ENE		3.37	1.98	2.40	.4	.03	4.59	3.11	
ESE		1.17	1.69	2.96	.21	.02	4.76	4.25	
SE		1.49	3.33	2.46	.20	.02	2.14	2.94	
SSE		4.68	1.77	1.12	.24	.1	0.0	3.60	
SSW		1.22	3.6	1.24	.24	.03	0.0	4.02	
SW		3.32	2.31	2.32	.23	.03	0.0	3.50	
WSW		1.14	1.66	1.71	.20	.03	0.0	3.01	
WSW		1.19	1.74	1.77	.21	.03	0.0	3.01	
WSW		1.4	3.6	1.79	.22	.1	0.0	3.43	
WSW		1.75	1.93	2.73	1.02	0.0	0.0	1.54	
WSW		3.4	1.86	2.22	.45	.03	0.0	3.36	
WSW		3.6	4.3	1.43	.21	.1	0.0	4.84	
WSW		3.2	2.1	2.30	1.12	.02	0.0	4.50	
WSW		1.14	1.03	1.03	.50	.02	0.0	2.74	
WSW		1.4	3.7	1.82	.37	.03	0.0	4.13	
WSW		2.1	1.98	4.39	1.98	.43	0.0	4.99	
WSW		2.1	1.89	1.97	.89	.19	0.0	4.03	
WSW		1.0	1.8	1.43	.23	.03	0.0	4.44	
WSW		1.3	1.6	1.56	.30	.1	0.0	5.51	
WSW		0.7	4.3	1.03	.33	.14	0.0	2.47	
WSW		0.2	2.2	2.22	.37	.15	0.0	3.74	
WSW		1.1	1.18	1.77	.40	.14	0.0	3.96	
WSW		0.5	1.53	1.79	.36	.03	0.0	4.00	
WSW		0.5	1.14	1.17	.37	.03	0.0	4.03	
WSW		2.7	1.75	1.91	.27	.05	0.0	4.25	
WSW		1.2	1.34	1.41	.12	.02	0.0	3.18	
WSW		1.3	1.12	1.10	.12	.02	0.0	4.29	
WSW		1.6	1.04	1.54	.54	.1	0.0	4.25	
WSW		0.7	2.9	2.4	.10	.03	0.0	2.70	
WSW		0.2	2.3	1.24	.9	.1	0.0	3.67	
WSW		1.1	1.23	1.28	.48	.1	0.0	3.24	
WSW		0.9	1.55	1.58	.22	.05	0.0	4.44	
WSW		0.7	1.30	1.64	.63	.14	0.0	4.16	
WSW		3.7	1.61	3.43	.94	.21	0.0	8.57	
WSW		1.7	1.76	1.54	.32	.03	0.0	3.04	
WSW		1.6	1.47	1.87	.83	.29	0.0	4.63	
WSW		3.6	2.52	4.66	4.44	.7	0.0	13.76	
WSW		1.8	1.13	2.09	1.92	.48	.1	6.17	
WSW		1.3	1.48	1.02	.55	.9	.7	12.44	
WSW		1.70	3.10	5.46	2.94	.48	.17	13.05	
WSW		3.1	1.39	2.45	1.32	.22	.17	5.85	
WSW		1.2	1.39	1.39	1.32	.22	.17	1.12	
CALM		6.4	2.9	5.32	7.35	345	21	6.29	
CALM		6.80	12.77	28.48	39.35	20.61	1.12	100.00	
TOTAL		3.05	12.77	17.64	4.24	1.63	1.2	44.84	

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.93

JOINT WIND FREQUENCY DISTRIBUTION STATISTICAL CLASS		COPPER NURFAR STATION				
STABILITY CLASS: PASSIVE & DATA SOURCE: ON-SITE		GEOMARINE STATION				
WIND SENSOR HEIGHT: 10.97 METERS TABLE GENERATED: 05/14/77 12:05:35.		GEOMARINE PUBLIC DISTRICT DAMES AND MOORE JOB NO: 7635-001-07				
WIND SECTOR	WIND SPEED	CATEGORIES PER SECOND	MEAN SPECED			
0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL
NNE	6	1.0	1	0	0	0
	*64	1.07	*1.1	0.00	0.00	0.00
	*14	*2.4	*0.6	0.00	0.00	1.82
	*6	*2.3	*0.6	0.00	0.00	*4.1
	*4	2.47	*1	0.00	0.00	3.50
	*14	*55	*0.2	0.00	0.00	3.22
	*7	*1.4	0.0	0.00	0.00	*72
	*75	1.50	0.00	0.00	0.00	1.72
	*17	*34	0.00	0.00	0.00	2.25
	*1	1.1	0.01	0.00	0.00	1.80
	*11	1.14	*1.1	0.00	0.00	1.97
	*02	*2.6	*0.2	0.00	0.00	3.00
	*35	*35	*0.2	0.00	0.00	3.22
	*43	3.75	1.2	0.00	0.00	2.1
	*10	*64	*2.9	*0.5	0.00	2.50
	*86	3.3	*2.9	*0.3	0.00	2.42
	*19	3.54	3.1	*0.6	0.00	1.50
	*5	*79	*7.0	*1.9	0.00	1.50
	*54	*39	*6.0	*0.5	0.00	1.54
	*4	4.18	*4.3	1.16	0.00	1.53
	*12	*94	*1.4	*0.2	0.00	1.74
	*7	*45	*5.5	*3.9	0.00	1.69
	*75	4.82	5.69	1.12	0.00	1.27
	*17	1.08	1.32	*2.4	*1.1	3.25
	*18	4.6	*5.0	*3	0.00	6.57
	*26	1.10	5.36	*3.2	0.00	1.92
	*3	2.5	1.20	*0.7	0.00	3.56
	*32	2.68	2.79	*4.3	0.00	2.93
	*07	*60	*6.2	*1.0	0.00	1.25
	*7	1.15	*2.2	*2.4	*1.1	3.40
	*75	1.61	*0.4	*1.1	*0.2	3.00
	*17	*39	*1.4	*0.6	0.00	2.47
	*13	1.2	*1.2	*0.2	0.00	1.79
	*1-39	1.29	1.29	0.00	0.00	2.64
	*31	*29	0.00	0.00	0.00	3.06
	*6	2.24	*2.0	*0.2	0.00	6.22
	*64	2.57	*2.4	*2.1	0.00	1.39
	*14	*58	*0.4	*0.5	0.00	3.30
	*7	3.3	*3.4	*0.2	0.00	2.44
	*75	3.44	*3.4	*0.2	0.00	3.22
	*15	*79	*6.2	*0.5	0.00	7.72
	*8	2.7	1.4	*0.4	0.00	3.37
	*86	2.89	1.50	*4	0.00	3.97
	*19	*65	*3.0	*3	0.00	5.54
	*15	*26	*3.0	*0.2	0.00	5.79
	N	1.61	2.79	*4.0	*1.1	1.30
	*36	*62	*4.0	*0.0	0.00	5.47
	CALM	*3	*22	*0.0	*0.2	1.22
	*32	*0.7	0.00	0.00	0.00	0.3
TOTAL	111	44.18	330	65	12	*32
	12.5%	44.80	35.31	5.8	1.29	1.93
	12.61	10.03	7.92	1.32	*0.29	2.95

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.94

POINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: NOVEMBER 1970 - 1975

WIND SECTOR	0.0-1.5 1.5-3.0 3.0-5.0	SPEED CATEGORY	STABILITY CLASS			TOTAL	MEAN SPEC'D	
			5-7.5	7.5-10.0	>10.0			
NNE	*97	1	0.00	0.00	0.00	0.00	1.27	
-10	*24	0.00	0.00	0.00	0.00	1.21		
NE	*3	0.00	0.00	0.00	0.00	*1.7	1.61	
-7.3	*4	0.00	0.00	0.00	0.00	1.69		
-7	*97	0.00	0.00	0.00	0.00	*1.7		
ENE	-10	0.00	0.00	0.00	0.00	1.27	2.61	
-24	*12	0.00	0.00	0.00	0.00	1.21		
-2	*48	0.00	0.00	0.00	0.00	*1.7		
E	*02	*05	0.00	0.00	0.00	*1.2		
-12	*0	0.00	0.00	0.00	0.00	1.55		
-1	*21	0.00	*48	0.00	0.00	1.69		
EE	-12	0.00	*05	0.00	0.00	*1.7	2.14	
-7.3	*73	1.69	*24	0.00	0.00	*1.6		
-7	*17	*02	0.00	0.00	0.00	*2.6		
SE	-3	*23	0.00	0.00	0.00	*2.6	2.43	
-7.3	*57	*04	1	0.00	0.00	7.51		
-0.7	*55	*07	*24	0.00	0.00	7.51		
SSE	-7	*19	*10	*02	0.00	*0.0		
-6.9	4-6.0	4-12	0.00	0.00	0.00	*4.3	2.55	
S	-1.7	*46	*41	0.00	0.00	*0.0	1.03	
-3.6	8.96	3-13	0.00	0.00	0.00	*1.65	2.21	
SSW	-36	*89	*15	0.00	0.00	0.00	15.74	
-12	*39	*17	0.00	0.00	0.00	*1.56		
SW	-9.1	9-44	1-69	0.00	0.00	0.00	5.58	2.15
-2.9	*64	*17	0.00	0.00	0.00	14.04		
-1	*42	10-17	1-45	0.00	0.00	0.00	7.39	2.33
WSW	-0.2	1-01	*14	0.00	0.00	0.00	11.66	
-6	*25	*25	0.00	0.00	0.00	*1.18		
-1.45	6-05	*97	0.00	0.00	0.00	*3.5	2.07	
W	-1.4	*60	*10	0.00	0.00	0.00	6.47	
-1.7	*12	*12	0.00	0.00	0.00	*6.4		
-1.7	*21	*97	0.00	0.00	0.00	5.57	1.99	
WNW	-1.4	*29	*10	0.00	0.00	0.00	*5.5	
-1.45	1-94	*44	0.00	0.00	0.00	*1.14	2.05	
-1.4	*19	*19	*10	0.00	0.00	*4.36		
NW	-1.4	*7	*10	0.00	0.00	*4.3	2.63	
-97	1-69	1-69	0.00	0.00	0.00	*4.36		
-10	*17	*17	0.00	0.00	0.00	*4.3		
NNW	-6	*14	*2	0.00	0.00	*4.3		
-4.5	3-39	*48	0.00	0.00	0.00	*2.2	1.87	
-1.4	*34	*05	*05	0.00	0.00	*3.3		
N	-1.9	*3	0.00	0.00	0.00	*1.2	1.26	
-1.8	*73	0.00	0.00	0.00	0.00	2.91		
CALM	-2.2	*07	0.00	0.00	0.00	*2.9		
-4	*97	0.00	0.00	0.00	0.00	*9.4		
-10	*10	0.00	0.00	0.00	0.00	*9.7		
TOTAL	23.96	24.3	17.73	1	0.00	0.00	4.13	
2.30	58.84	17.68	*24	0.00	0.00	0.00	2.16	
	5.83	1.75	*02	0.00	0.00	0.00	0.91	

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.95

JOINT WIND FREQUENCY DISTRIBUTION OF STABILITY CLASS
DATA PERIOD: NOVEMBER 1975 - 1976

STABILITY CLASS: PASQUILL 6

DATA SOURCE: ON-SITE

WIND SENSOR HEIGHT: 10.67 METERS

TABLE GENERATED: 65/1477, 12/05/35.

COPPIA, MURFAN STATION

AFRICA, NEARBY POWER DISTRICT

DATES AND NO.: 7635-001-07

WIND SPEED

CATEGORY

METERS PER

SECOND

SECS

>10.0

TOTAL

MEAN
SPEED

WIND SECTION	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL
NNE	2	0	0	0	0	0	2
NE	1.41	0.00	0.00	0.00	0.00	0.00	1.41
E	0.05	0.00	0.00	0.00	0.00	0.00	0.05
NE	0.1	0.00	0.00	0.00	0.00	0.00	0.1
E	0.70	0.00	0.00	0.00	0.00	0.00	0.70
ENE	0.02	0.00	0.00	0.00	0.00	0.00	0.02
EHE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.00	0.02	0.00	0.00	0.00	0.00	0.02
E	2.11	1.41	0.00	0.00	0.00	0.00	3.52
E	0.07	0.05	0.00	0.00	0.00	0.00	0.12
ESE	0.09	0.3	0.00	0.00	0.00	0.00	0.12
ESE	0.34	2.11	0.00	0.00	0.00	0.00	0.45
ESE	0.22	0.07	0.00	0.00	0.00	0.00	0.29
SE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	3.55	9.46	0.00	0.00	0.00	0.00	13.0
SSE	0.12	3.4	0.00	0.00	0.00	0.00	3.49
SSE	2.82	2.11	0.00	0.00	0.00	0.00	4.93
S	0.10	0.07	0.00	0.00	0.00	0.00	0.17
S	1.41	3.52	0.00	0.00	0.00	0.00	4.7
SSE	0.05	1.12	0.00	0.00	0.00	0.00	1.12
SSE	1.41	10.56	1.41	0.00	0.00	0.00	12.48
SSE	0.05	3.36	0.05	0.00	0.00	0.00	3.46
SSE	2.82	5.48	1.41	0.00	0.00	0.00	7.88
SSE	0.10	0.19	0.05	0.00	0.00	0.00	0.43
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	1.10
SSE	0.05	1.12	0.02	0.00	0.00	0.00	1.12
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07	1.12	0.02	0.00	0.00	0.00	0.22
SSE	0.05	1.12	0.02	0.00	0.00	0.00	0.23
SSE	4.23	1.41	1.41	0.00	0.00	0.00	4.93
SSE	0.14	0.05	0.02	0.00	0.00	0.00	0.34
SSE	2.82	1.41	0.04	0.00	0.00	0.00	1.72
SSE	0.10	0.19	0.01	0.00	0.00	0.00	0.19
SSE	2.11	3.52	1.41	0.00	0.00	0.00	5.17
SSE	0.07</td						

TABLE 2.96

DATA PERIOD: NOVEMBER 1970-1975

ALL CLASSES

DATA SOURCE: ON-SITE

WIND SENSOR HEIGHT: 10.67 METERS

TABLE GENERATED: 05/14/77 12:05:35.

COOPED RUMBLEHILL STATION
NEBRASKA NEBRASKA
NEBRASKA RUMBLEHILL DISTRICT
AMES AND SOUTHERN JOB NO: 76-001-07

WIND SECTION	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	10.0	TOTAL	MEAN SPEED
NNE	.27	.72	.88	.42	.38	.15	.282	4.59
NE	.65	1.73	2.11	1.01	.91	.36	6.77	
ENE	.20	.70	.53	.5	.1	.00	1.49	2.83
E	.48	1.68	1.27	.12	.02	.00	3.58	
ENE	.21	.54	.25	.6	.2	.00	1.08	2.61
E	.50	1.30	.60	.14	.05	.00	2.59	
ESE	.11	.51	.59	.3	.0	.0	.96	2.71
ESE	.26	1.22	.70	.07	.00	.00	2.26	
ESE	.24	.79	.49	.14	.0	.0	1.70	2.48
ESE	.58	1.90	1.18	.43	.00	.00	4.08	
SE	.30	1.09	.86	.28	.2	.0	2.55	3.15
SSE	.72	2.62	2.06	.67	.05	.00	6.12	
SSE	.22	1.05	1.36	.52	.4	.0	3.20	3.55
S	.53	2.54	3.26	1.25	.10	.00	7.68	
SSE	.28	1.29	1.73	.81	.23	.2	4.36	3.87
SSE	.67	3.10	4.15	1.94	.55	.05	10.47	
SSE	.30	1.26	1.18	.43	.9	.1	3.27	3.41
SSE	.72	3.02	2.83	1.03	.22	.02	7.85	
SSE	.10	1.06	.75	.26	.3	.0	2.20	3.24
SSE	.24	2.54	1.80	.62	.07	.00	5.28	
SSE	.23	.65	.40	.9	.5	.0	1.42	2.04
SSE	.55	1.56	.96	.22	.12	.00	3.91	
SSE	.33	.51	.32	.4	.0	.1	1.21	2.49
SSE	.79	1.22	.77	.10	.00	.02	2.90	
SSE	.17	.75	.63	.28	.12	.0	1.95	3.60
SSE	.41	1.80	1.51	.67	.09	.00	4.68	
SSE	.29	.81	1.31	1.03	.19	.0	3.62	4.19
SSE	.67	1.94	3.14	2.47	.46	.00	8.69	
SSE	.37	1.10	1.34	1.36	.63	.9	4.91	4.65
SSE	.89	2.64	3.22	3.31	1.51	.22	11.70	
SSE	.47	1.08	1.83	.84	.23	.19	4.64	4.18
CALM	.30	.59	4.34	2.02	.55	.46	11.14	
TOTAL	10.38	13.92	14.15	6.70	204	.37	30	CALM
	10.31	33.41	33.97	16.08	4.90	1.13	4166	3.69
							NUMBER OF VALID OBSERVATIONS	76.44 PCT.
							NUMBER OF INVALID OBSERVATIONS	3.56 PCT.
							TOTAL NUMBER OF OBSERVATIONS	4320 100.00 PCT.
							KEY XXX NUMBER OF OCCURRENCES	
							XXX PERCENT OCCURRENCES	

TABLE 2.98

DOI:10.1111/j.1365-2349.1998.tb01153.x

STABILITY CLASS: PASSABLE
DATA SOURCE: ON-SITE
INDOOR SENSORS: 10/67 METERS
TABLE GENERATED: 05/14/97 12:04:11
NAME & ADDRESS: COOP. OF MUNICIPAL STATION
NEBRASKA, NEBRASKA
NAME & PHONE: JOHN NO: 765-001-0

WIND SECTION	MAGNITUDE	WIND SPEED	CATEGORY	WINDSPEEDS (METERS PER SECOND)			TOTAL
				0-0.1.5	1.5-3.0	3.0-5.0	
NNE	1.50	2.5	3	3	5	5	15
	-0.2	2.48	1.49	2.48	.50	0.00	7.43
	-1.2	-0.7	-1.2	-0.2	0.00	0.00	*.36
NE	1.50	0.0	0	0	0	0	0.00
	-0.2	0.00	.70	0.00	0.00	0.00	*.92
	-0.2	0	0.2	-0.00	0.00	0.00	*.05
ENE	1.50	1	1	0	0	0	1.71
	-0.2	-50	0.00	0.00	0.00	0.00	*.99
	-0.2	-0.2	0.00	0.00	0.00	0.00	*.05
E	1.50	0.0	0	0	0	0	1.45
	-0.2	0.00	0.00	0.00	0.00	0.00	*.01
	-0.2	0	0.00	0.00	0.00	0.00	*.02
ESE	1.50	0.0	1	0	0	0	2.34
	-0.2	0.00	-50	0.00	0.00	0.00	*.99
	-0.2	0	0.2	-0.3	0.00	0.00	*.05
SE	0.00	0.2	0.1	0	0	0	2.48
	0.00	-99	-50	3.00	0.00	0.00	1.49
	0.00	-0.5	-0.5	-0.00	0.00	0.00	*.07
SSE	0.00	-0.1	-0.2	-0.00	0.00	0.00	*.38
	0.00	-0.0	-50	-99	0.00	0.00	1.49
	0.00	-0.2	-0.3	-0.00	0.00	0.00	*.07
S	0.00	0	0.1	0	0	0	3.42
	0.00	-50	1.49	0.00	0.00	0.00	1.98
	0.00	-0.2	-0.7	-0.00	0.00	0.00	*.10
SSW	0.00	2	-4	1.98	1.98	0.00	4.51
	0.00	-99	1.98	1.98	0.00	0.00	4.45
	0.00	-0.5	-10	-10	0.00	0.00	*.11
SW	0.00	0	1	3	0.00	0	5.72
	0.00	-0.0	-50	1.49	0.00	0.00	2.44
	0.00	-0.2	-0.2	-0.7	-0.02	0.00	*.12
WSW	0.00	0	2	-0.3	0	0	3.47
	0.00	-99	-99	1.49	0.00	0.00	3.47
	0.00	-0.5	-0.5	-0.7	0.00	0.00	*.17
W	0.00	0	0	4	0.00	0.00	4.45
	0.00	-99	2.48	1.98	0.00	0.00	*.45
	0.05	0	12	-10	0.00	0.00	*.27
WNW	0.00	0	3	0	0	0	5.94
	0.00	1.49	0	0	0.00	0.00	3.47
	0.00	-0.2	0.00	-0.5	0.00	0.00	*.17
NW	1.50	1.49	2.48	1.49	0.00	0.00	5.00
	-0.2	-0.7	-1.2	-1.0	0.00	0.00	*.39
NNW	1.50	3.47	1.13	1.26	7	0.00	3.67
	-1.0	1.1	3.47	1.26	7	0.00	3.17
	-0.0	1.1	3.47	1.26	7	0.00	3.16
N	0.00	3.47	1.13	3.47	1.0	0.00	2.37
	0.00	-1.7	1.49	4.92	0.00	0.00	*.13
CALM	1.50	1.49	1.49	-2.24	0.00	0.00	*.50
	-0.2	1.13	3.47	4.01	0.00	0.00	2.02
TOTAL	6.44	16.43	16.43	30.61	4.46	4.46	100.65

KEY XX NUMBER OF OCCURRENCES
XXX PERCENT OCCURRENCES THIS CLASS

TABLE 2.99

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
DATA SOURCE: ON-SITE WIND SENSOR HEIGHT: 10.67 METERS TABLE GENERATED: 05/14/77 12:04:11.		CITY: KUWAIT CITY NAME: NHAWA STA ADDRESS: PUBLIC POWER DISTRICT NAME AND SOURCE JOB NO: 765-001-07		CITY: KUWAIT CITY NAME: NHAWA STA					
WIND SECTION	WIND SPEED	CATEGORY	WEIGHT	SECOND	THIRD	FOURTH	FIFTH	TOTAL	MEAN SPEED
NNE	0.0-1.5	1	1	1.3	2.0	0.0	0.0	0.0	4.31
NNE	1.6-3.0	2	2	3.7	2.0	0.0	0.0	6.32	
NNE	3.1-4.5	0.2	0.2	0.1	0.0	0.0	0.0	0.3	1.30
NNE	4.6-6.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	
NNE	6.1-7.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	2.85
ENE	0.0-1.5	2	2	2.9	0.0	0.0	0.0	1.15	
ESE	0.0-1.5	2	2	2.9	0.0	0.0	0.0	1.15	
ESE	1.6-3.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	1.04
ESE	3.1-4.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	
ESE	4.6-6.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	2.31
SE	0.0-1.5	0.5	0.5	0.5	0.0	0.0	0.0	2.0	
SE	1.6-3.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	1.04
SSE	0.0-1.5	0.5	0.5	0.1	0.0	0.0	0.0	1.15	
SSE	1.6-3.0	0.5	0.5	0.1	0.0	0.0	0.0	1.15	
S	0.0-1.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	2.31
S	1.6-3.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
SSW	0.0-1.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	3.45
SSW	1.6-3.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
SW	0.0-1.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	3.43
SW	1.6-3.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	0.0-1.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	3.96
WNW	1.6-3.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	3.1-4.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	4.6-6.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	6.1-7.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	7.6-9.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	9.1-10.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	10.6-12.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	12.1-13.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	13.6-15.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	15.1-16.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	16.6-18.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	18.1-19.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	19.6-21.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	21.1-22.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	22.6-24.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	24.1-25.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	25.6-27.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	27.1-28.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	28.6-30.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	30.1-31.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	31.6-33.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	33.1-34.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	34.6-36.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	36.1-37.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	37.6-39.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	39.1-40.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	40.6-42.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	42.1-43.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	43.6-45.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	45.1-46.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	46.6-48.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	48.1-49.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	49.6-51.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	51.1-52.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	52.6-54.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	54.1-55.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	55.6-57.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	57.1-58.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	58.6-60.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	60.1-61.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	61.6-63.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	63.1-64.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	64.6-66.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	66.1-67.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	67.6-69.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	69.1-70.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	70.6-72.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	72.1-73.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	73.6-75.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	75.1-76.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	76.6-78.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	78.1-79.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	79.6-81.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	81.1-82.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	82.6-84.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	84.1-85.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	85.6-87.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	87.1-88.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	88.6-90.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	90.1-91.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	91.6-93.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	93.1-94.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	94.6-96.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	96.1-97.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	97.6-99.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	99.1-100.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	100.6-102.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	102.1-103.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	103.6-105.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	105.1-106.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	106.6-108.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	108.1-109.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	109.6-111.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	111.1-112.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	112.6-114.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	114.1-115.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	115.6-117.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	117.1-118.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	118.6-120.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	120.1-121.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	121.6-123.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	123.1-124.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	124.6-126.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	126.1-127.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	127.6-129.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	129.1-130.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	130.6-132.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	132.1-133.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	133.6-135.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	135.1-136.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	136.6-138.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	138.1-139.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	139.6-141.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	141.1-142.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	142.6-144.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	144.1-145.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	145.6-147.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	147.1-148.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	148.6-150.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	150.1-151.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	151.6-153.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	153.1-154.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	154.6-156.0	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	156.1-157.5	0.5	0.5	0.1	0.0	0.0	0.0	1.0	
WNW	157.6-159.0	0.5	0.5</						

TABLE 2, 100

THE ECONOMIC DISTINCTION BETWEEN STABILITY CLASSES

STABILITY CLASS: PRACTICAL
WIND SOURCE HEIGHT: 10⁷ METERS
TABLE NUMBER: 05/14/77 * 12.08.11.
COOPERA NUCLEAR STATION
WEATHER & PUBLIC POWER DIVISION
NAME: S AND MIDDLE: JOHN NO: 7635-001-07

WIND DIRECTION	SPEED CATEGORIES (METERS PER SECOND)					>10.0	TOTAL
	0.0-1.5	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0		
NE	27	61	32	19	0	0	139
NNE	1-45	3-61	1-72	1-02	0-00	0-00	7-68
NE	1-65	1-46	1-34	1-46	0-00	0-00	3-33
ENE	1-75	1-83	1-48	1-1	0-00	0-00	5-59
E	3-8	8-2	2-2	0-5	0-00	0-00	1-42
EE	4-8	1-72	1-24	0-09	0-00	0-00	6-64
SE	2-2	1-77	1-55	0-09	0-00	0-00	3-4
SSE	1-22	2-68	2-55	0-09	0-00	0-00	1-29
S	1-18	1-53	1-35	0-09	0-00	0-00	1-95
SSSE	1-3	1-15	1-60	0-09	0-00	0-00	2-28
SSSE	1-2	3-65	1-23	0-00	0-00	0-00	1-09
SSSE	1-65	3-50	1-24	0-00	0-00	0-00	5-38
SSSE	2-9	1-56	1-54	0-00	0-00	0-00	2-0
SSSE	1-5	1-54	4-5	0-00	0-00	0-00	1-21
SSSE	1-61	2-91	2-42	0-7	0-00	0-00	2-90
SSSE	1-36	1-30	1-08	1-7	0-00	0-00	6-51
SSSE	1-3	3-05	3-66	2-7	0-00	0-00	1-22
SSSE	1-79	2-05	1-63	1-2	0-20	0-05	6-73
SSSE	1-31	2-91	1-79	1-1	0-20	0-02	3-00
SSSE	1-3	3-39	2-10	4-25	0-9	0-02	1-43
SSSE	1-70	2-10	1-40	1-0	0-00	0-00	1-70
SSSE	1-2	3-97	1-48	1-8	0-02	0-00	3-43
SSSE	1-2	1-94	2-58	0-7	0-00	0-00	1-16
SSSE	0-9	1-49	2-15	4-3	0-2	0-00	6-64
SSSE	1-6	2-22	1-35	2-4	0-0	0-00	6-69
SSSE	1-3	1-18	1-68	2-2	0-00	0-00	3-71
SSSE	1-9	1-63	1-84	1-0	0-00	0-00	1-96
SSSE	1-7	1-22	1-17	1-3	0-00	0-00	2-56
SSSE	1-91	1-72	1-91	1-0	0-1	0-00	3-02
SSSE	1-41	1-77	1-41	0-1	0-02	0-00	1-70
SSSE	1-28	2-5	1-14	1-1	0-2	0-00	2-79
SSSE	1-51	1-35	1-75	5-9	1-1	0-00	4-01
SSSE	1-67	6-0	1-34	2-6	0-7	0-00	1-92
SSSE	1-10	2-0	1-20	1-1	1-4	0-00	1-56
SSSE	1-54	1-04	1-59	1-75	0-0	0-00	3-01
SSSE	1-24	1-46	1-60	1-34	0-02	0-00	1-24
SSSE	1-36	1-32	1-51	1-34	0-9	0-00	1-62
SSSE	1-94	1-72	2-74	1-83	1-48	0-00	8-02
SSSE	1-86	1-77	1-22	1-92	2-2	0-00	3-69
SSSE	1-19	4-2	1-94	5-1	1-9	0-00	1-22
SSSE	1-02	2-26	5-33	2-74	4-8	0-02	4-09
SSSE	1-46	1-61	2-38	1-22	2-2	0-02	1-53
SSSE	1-20	2-51	1-75	1-40	2-7	0-02	1-49
SSSE	1-04	2-74	4-04	2-15	3-0	0-16	3-97
SSSE	1-48	1-22	1-80	1-96	1-17	0-07	4-34
TOTAL	2-21	5-98	6-32	5-54	2-19	0-41	CAL 4
TOTAL	17-01	36-02	35-60	35-72	18-98	3-18	100-00

KEY XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES T-15 CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.101

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS		JOINED NUCL FAIR STATION				
STABILITY CLASS: PASQUILL E		NUCL FAIR STATION				
DATA SOURCE: ON-SITE METEWS		NATIONAL PUBLIC POWER DISTRICT				
WIND SEASON HEIGHT: 10.67 METERS		DATE AND FILE NO.: 7635-001-07				
TABLE GENERATED: 05/14/77 12:04:11.		FILE NO.: 7635-001-07				
WIND SECTION	0.0-1.5	SPEED CATEGORIES METERS PER SECOND	TOTAL			
	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL
NNE	1.3	1.4	1	0	0	0
NE	1.4	1.56	1.1	0.00	0.00	3.11
NE	1.3	1.34	0.2	0.00	0.00	0.07
NE	1.9	0.8	0.00	0.00	0.00	1.44
NE	1.00	0.9	0.00	0.00	0.00	1.00
NE	1.22	1.9	0.00	0.00	0.00	1.69
Ene	1.7	1.1	0.0	0.00	0.00	1.64
Ene	1.7	1.22	0.00	0.00	0.00	2.00
E	1.7	1.26	0.90	0.00	0.00	1.72
E	1.23	1.69	0.00	0.00	0.00	3.23
E	1.29	1.41	0.00	0.00	0.00	1.70
ESE	1.32	2.0	0.5	0.00	0.00	2.00
ESE	1.3	2.22	0.56	0.00	0.00	4.12
ESE	1.29	2.48	1.2	0.00	0.00	4.69
SE	1.6	3.1	1.4	0.00	0.00	2.55
SE	1.7	3.45	1.56	0.00	0.00	5.01
SE	1.4	3.74	1.34	0.00	0.00	5.22
SSE	1.7	5.1	1.19	0.00	0.00	7.77
SSE	1.7	5.67	2.14	0.00	0.00	8.53
S	1.7	1.22	0.46	0.00	0.00	1.87
S	1.7	1.79	0.36	0.00	0.00	1.42
S	2.45	8.79	4.00	0.00	0.00	15.80
S	2.53	1.90	0.86	0.00	0.00	3.41
S	1.6	5.52	0.86	0.00	0.00	10.70
S	2.00	5.78	3.34	0.00	0.00	11.90
S	1.43	1.55	0.72	0.00	0.00	2.57
S	1.4	1.23	0.56	0.00	0.00	1.86
S	1.44	3.23	6.23	0.00	0.00	2.57
S	1.0	7.70	1.34	0.10	0.00	10.34
S	1.1	2.1	2.0	0.4	0.00	2.42
S	1.24	2.34	2.22	0.4	0.00	6.12
S	0.7	2.20	1.5	0.00	0.00	3.02
S	1.4	2.22	1.67	0.1	0.11	4.54
S	1.0	4.8	1.36	0.02	0.02	1.06
S	1.4	2.0	1.19	0.02	0.00	2.46
S	1.4	2.22	2.11	0.2	0.00	5.01
S	1.0	4.4	4.6	0.5	0.00	1.04
S	1.1	1.1	1.19	0.2	0.00	4.43
S	1.22	1.62	2.11	0.2	0.00	4.78
S	1.26	1.66	4.6	0.5	0.00	1.03
S	1.0	3.3	1.0	0.5	0.00	2.55
S	1.11	3.67	1.11	0.2	0.00	6.12
S	1.24	7.9	2.4	0.5	0.00	1.32
S	1.21	1.2	4	0.0	0.00	1.62
S	2.34	1.3	4.4	0.0	0.00	4.12
S	2.50	2.9	1.0	0.0	0.00	4.9
CALM	2.34					2.1
TOTAL	750	429	248	77	1	1
TOTAL	2147	4772	2759	300	11	11
	4.63	10.24	5.95	.65	.02	.02

KEY
 XXX NUMBER OF OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.102

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS
DATA PERIOD: 07/01 - 07/05

STABILITY CLASS: PASOOL F
DATA SOURCE: ON-SITE
WIND SENSOR HEIGHT: 10.67 METERS
TABLE GENERATOR: 05/14/77, 12.00A.S.

COOPED NARROW STATION
NAME: NARROW PUBLIC POWER DISTRICT
NAME AND ADDRESS: JUN NO: 7635-001-07

SECTOR	WIND SPEED (METERS PER SECOND)					TOTAL	MEAN SPEED
	0-0.15	0.15-3.0	3.0-5.0	5.0-7.5	7.5-10.0		
NNE	8	2	0	0	0	0	3.11
	2.29	*.06	0.00	0.00	0.00	0.00	1.28
	.19	0.07	0.00	0.00	0.00	0.00	
NE	3	1	0	0	0	0	3.14
	*.06	0.00	0.00	0.00	0.00	0.00	
	.07	*.29	0.00	0.00	0.00	0.00	1.26
ENE	1	*.02	0.00	0.00	0.00	0.00	1.14
	*.29	*.03	0.00	0.00	0.00	0.00	
	*.02	*.07	0.00	0.00	0.00	0.00	1.61
E	1	*.02	0.00	0.00	0.00	0.00	1.18
	*.29	0.00	0.00	0.00	0.00	0.00	
	*.02	0.00	0.00	0.00	0.00	0.00	1.10
ESE	2	*.02	0.00	0.00	0.00	0.00	1.02
	*.57	1.14	*.52	0.00	0.00	0.00	2.20
	*.05	*.10	*.05	0.00	0.00	0.00	
SE	3	*.03	*.09	*.05	0.00	0.00	1.19
	*.06	2.57	*.07	*.29	0.00	0.00	2.05
SSE	2.57	*.13	1.14	0.00	0.00	0.00	3.73
	*.22	*.31	*.10	0.00	0.00	0.00	
S	3.71	6.00	*.02	0.00	0.00	0.00	1.90
	*.31	*.33	*.07	*.09	0.00	0.00	
SSW	5.43	9.43	*.06	0.00	0.00	0.00	1.83
	*.46	*.79	*.07	0.00	0.00	0.00	
SW	1.14	7.43	3.13	0.00	0.00	0.00	2.42
	*.10	*.62	*.31	0.00	0.00	0.00	
WSW	1.14	4.46	2.29	0.00	0.00	0.00	2.42
	*.10	*.41	*.19	*.09	0.00	0.00	
W	2.00	2.00	*.57	*.21	0.00	0.00	2.07
	*.17	*.17	*.05	*.02	0.00	0.00	
WNW	2.08	2.08	*.06	0.00	0.00	0.00	1.90
	*.29	2.29	*.07	0.00	0.00	0.00	
WW	2.07	3.71	1.14	0.00	0.00	0.00	2.04
	*.17	*.31	*.16	0.00	0.00	0.00	
NNW	2.57	4.29	0.00	0.00	0.00	0.00	2.24
	*.22	*.36	*.06	0.00	0.00	0.00	
N	4.06	*.09	*.29	0.00	0.00	0.00	1.51
	*.41	*.07	*.02	0.00	0.00	0.00	
CALM	4.00	1.14	0.00	0.00	0.00	0.00	1.21
TOTAL	129	50.29	12.44	1	0.00	0.00	1.06
	36.86	*.22	1.06	*.02	0.00	0.00	
	3.10					100.00	

KEY
 XXX NUMBER OF OCCURRENCES
 XXX PERCENT OCCURRENCES THIS CLASS
 XXX PERCENT OCCURRENCES ALL CLASSES

TABLE 2.103

JOINT PENDO FALLOUT DISTRIBUTION BY STABILITY CLASS

		JOINT PENDO FALLOUT DISTRIBUTION BY STABILITY CLASS						
		JOINT PENDO FALLOUT DISTRIBUTION BY STABILITY CLASS						
		JOINT PENDO FALLOUT DISTRIBUTION BY STABILITY CLASS						
STABILITY CLASS	PASOQUI 6	0.0-1.2	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL
DATA SOURCE:	ON-SITE	0.0-0.5	0.5-1.0	1.0-1.5	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5
WIND SENSORS OFFIGHT:	10.6 METERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DATE GENERATED:	05/14/77	1.2-0.8	1.8-1.4	2.4-1.0	3.0-0.6	3.6-0.2	4.2-0.0	4.8-0.0
SECTOR	0.0-1.2	1.5-3.0	3.0-5.0	5.0-7.5	7.5-10.0	>10.0	TOTAL	SECTOR
NONE	1.92	2.88	0.00	0.00	0.00	0.00	0.00	1.51
NE	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00
NO	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOE	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESE	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SE	1.92	2.88	0.00	0.00	0.00	0.00	0.00	1.35
SE	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00
S	3.44	1.1	0.00	0.00	0.00	0.00	0.00	1.30
SSE	0.19	0.96	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.15	0.02	0.00	0.00	0.00	0.00	0.00	0.00
SSE	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S	7.69	1.92	0.00	0.00	0.00	0.00	0.00	1.20
SSSE	0.19	0.02	0.00	0.00	0.00	0.00	0.00	0.00
SSSE	1.92	3.44	0.00	0.00	0.00	0.00	0.00	1.10
SSSE	0.05	0.19	0.00	0.00	0.00	0.00	0.00	0.00
SSSE	0.03	0.07	0.00	0.00	0.00	0.00	0.00	0.00
SSSE	2.88	6.73	0.00	0.00	0.00	0.00	0.00	1.79
SSSE	0.07	0.17	0.00	0.00	0.00	0.00	0.00	0.00
SSSE	0.1	0.3	0.00	0.00	0.00	0.00	0.00	0.00
SSSE	0.96	2.88	1.92	0.00	0.00	0.00	0.00	2.86
SSSE	0.02	0.07	0.05	0.00	0.00	0.00	0.00	0.00
SSSE	0.03	0.5	0.00	0.00	0.00	0.00	0.00	0.00
SSSE	2.88	4.41	0.00	0.00	0.00	0.00	0.00	1.57
SSSE	0.07	0.2	0.00	0.00	0.00	0.00	0.00	0.00
SSSE	1.92	0.3	0.00	0.00	0.00	0.00	0.00	0.00
SSSE	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00
SSSE	1.92	2.88	0.00	0.00	0.00	0.00	0.00	1.35
SSSE	0.05	0.07	0.02	0.00	0.00	0.00	0.00	0.00
SSSE	5.77	9.6	0.00	0.00	0.00	0.00	0.00	1.11
S	1.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00
N	7.69	3.44	0.00	0.00	0.00	0.00	0.00	1.35
CALM	11.54	0.19	0.00	0.00	0.00	0.00	0.00	1.2
TOTAL	-2.79	36.76	4.81	0.00	0.00	0.00	0.00	11.54
TOTAL	60.58	34.62	4.81	0.00	0.00	0.00	0.00	2.20
KEY	XXX	NUMBER OF OCCURRENCES						
KEY	XXX	PERCENT OCCURRENCES THIS CLASS						
KEY	XXX	PERCENT OCCURRENCES ALL CLASSES						

TABLE 2.104

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS									
JOINT PERIOD: OCTOBER 1970 - MAY 1971		JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS							
ALL CLASSES		JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS							
DATA SOURCE: WIND-SITE WIND SENSORS HEIGHT 10.67 METERS TABLE GENERATED: 05/14/77, 12:08:11.		JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS							
WIND SECTOR	0.0-1.5 1.5-3.0 3.0-5.0 5.0-7.5 7.5-10.0	WIND SPEED CATEGORY	STABILITY CLASS	TOTAL					
NNE	1.53	0.90	5.6	34	3	0	0	0	2.36
NNE	1.27	2.16	1.34	82	407	0.0	0.0	5.66	2.96
NE	31	4.4	1.1	2	0	0	0	0	2.01
NE	74	1.06	2.6	62	0.0	0.0	0.0	0.0	0.0
E	20	5.0	2.4	0	0	0	0	0	2.42
E	48	1.20	5.8	0.0	0.0	0.0	0.0	0.0	2.26
E	38	6.9	2.5	0	0	0	0	0	1.32
E	91	1.66	6.0	0.0	0.0	0.0	0.0	0.0	3.17
ESE	32	1.00	3.7	0	0	0	0	0	2.19
ESE	77	2.40	8.9	0.0	0.0	0.0	0.0	0.0	2.29
SE	31	11.0	7.0	11	0	0	0	0	2.76
SE	78	2.68	1.68	26	0.0	0.0	0.0	0.0	5.33
SSE	34	11.0	1.04	8	0	0	0	0	2.89
SSE	82	2.68	2.50	1.9	0.0	0	0	0	6.17
S	56	15.2	1.98	22	0.5	0.0	0.0	0.0	2.49
S	1.34	3.65	3.91	5.3	0.5	0.0	0.0	0.0	8.88
SSW	51	1.31	2.98	33	3	0	0	0	2.94
SSW	1.22	3.14	2.35	7.9	0.7	0.0	0.0	0.0	7.58
SW	20	8.9	1.13	26	6	0	0	0	2.38
SW	48	2.14	2.71	62	14	0.0	0.0	0.0	6.09
SW	77	8.7	6.0	14	3	0	0	0	1.76
W	51	2.09	1.44	34	0.7	0.0	0.0	0.0	4.70
W	1.22	1.56	4.8	21	3	0	0	0	1.66
WNW	33	6.7	5.8	20	6	0	0	0	4.86
WNW	79	1.61	1.30	67	10	0.5	0.0	0.0	3.29
NNW	65	7.7	1.07	67	25	0.7	0.0	0.0	4.51
NNW	1.56	1.87	2.57	1.61	60	0.7	0.0	0.0	3.87
NNW	55	1.29	2.02	1.54	29	3	0.7	0.0	5.71
N	32	3.07	4.85	3.69	70	0.7	0.0	0.0	4.12
N	70	1.01	1.70	69	15	4	0.0	0.0	3.74
CALM	96	2.42	4.08	2.14	36	1.0	0.0	0.0	10.77
CALM	2.30								CA14
TOTAL	18.43	35.29	31.3	589	2.3	1.4	0.0	0.0	3.13
NUMBER OF VALID OBSERVATIONS	4168			93.37	CT				
NUMBER OF INVALID OBSERVATIONS	295			6.63	CT				
TOTAL NUMBER OF OBSERVATIONS	4463			100.00	PERC				
KEY	XXX	NUMBER OF OCCURRENCES							
	XXX	PERCENT OCCURRENCE							

QUESTION 3

The discussion concerning the development of the "power factor" $P(S)$ (as discussed on pages 1-13 and 5-47) to be used in a power law extrapolation of wind speeds measured at 96.93m to represent wind speeds at 10.67m is incomplete.

- a) Identify the period of record when wind speed measurements were available from both the 10.67m and 96.93m levels used to develop $P(S)$.
- b) Provide $P(S)$ for each stability class.
- c) Compare the calculated values of $P(S)$ at the Cooper site with those recommended in the "Recommended Guide for the Prediction of the Dispersion of Airborne Effluents" (ASME, 1968; M.E. Smith, Editor).

RESPONSE 3

a) The period of record for which wind speed was measured for both the 96.93-meter-level and the 10.67-meter-level was March 1, 1974 through December 31, 1975. This is the period used to derive the power factor $P(S)$.

b) The following table gives the $P(S)$ used for each stability class.

<u>STABILITY CLASS</u>	<u>NUMBER OF VALUES USED TO DERIVE P(S)</u>	<u>P(S)</u>
A	1,831	0.121
B	555	0.181
C	694	0.188
D	3,121	0.247
E	2,554	0.401
F	878	0.490
G	308	0.470

c) Page 3 of "Recommended Guide for the Prediction of the Dispersion of Airborne Effluents" states that P varies from 0.12 to 0.50. The P's derived from the Cooper Nuclear data are almost identical to these.

QUESTION 4

Provide the justification for the assumption that wind direction measured at the 96.93m level could be substituted directly for missing wind direction measurements at the 10.67m level (as discussed on Pages 1-13 and 5-47).

Include a comparison of simultaneous measurements of wind direction from both the 96.93m and 10.67m levels. The selected period of record for these comparisons should cover a reasonable sample of atmospheric diffusion conditions.

RESPONSE 4

The wind direction over fairly smooth terrain normally changes in a clockwise sense with increasing height. The change is approximately 15 to 30 degrees between ground level and the gradient level of 500 to 600 meters. The change in direction may be greater and more complicated in irregular terrain, especially during stable conditions where the low-level flow patterns are separate from the patterns aloft.

If one were to assume the above numbers, a change in direction of 0.05 degrees per meter would occur. Thus, the nominal change in wind direction from 96.93 to 10.67 meters would be less than 1 degree, which is less than the accuracy of the instrument. Thus, wind direction was substituted directly from one level to the other in the x/Q calculations.

To respond to the NRC's question, however, we calculated the Root Mean Square difference and the difference considering the sign (plus or minus) of the wind between the two levels. Data for the period March 1974 through December 1975 were used and separated by stability classes. The results are as follows:

<u>STABILITY CLASS</u>	<u>RMS</u>	<u>TRUE DIFFERENCE (Includes Sign Upper Minus Lower)</u>
A	26.4	- 3.4
B	23.2	1.8
C	28.7	0.4
D	36.4	1.2
E	48.6	6.6
F	69.1	7.1
G	96.4	17.1
ALL	44.5	2.8

The large differences in the two wind directions are unexplainable at this time.

QUESTION 5

Section 3.4 states that whenever temperature gradient measurements between the 10.67m and 96.93m levels were not available, measurements between the 47.24m and 96.93m levels were substituted. Indicate the amount of missing temperature gradient data between the 10.67m and 96.93m levels that was substituted by measurements between the 47.24m and 96.93m levels.

RESPONSE 5

Eleven hundred forty-seven (1147) or 2.2 percent of the 10.67 to 96.93-meter temperature difference data were missing; of this, 223 hours (or 19 percent) of the missing 47.24 to 96.93-meter temperature differences were substituted to determine the stability parameter.

QUESTION 6

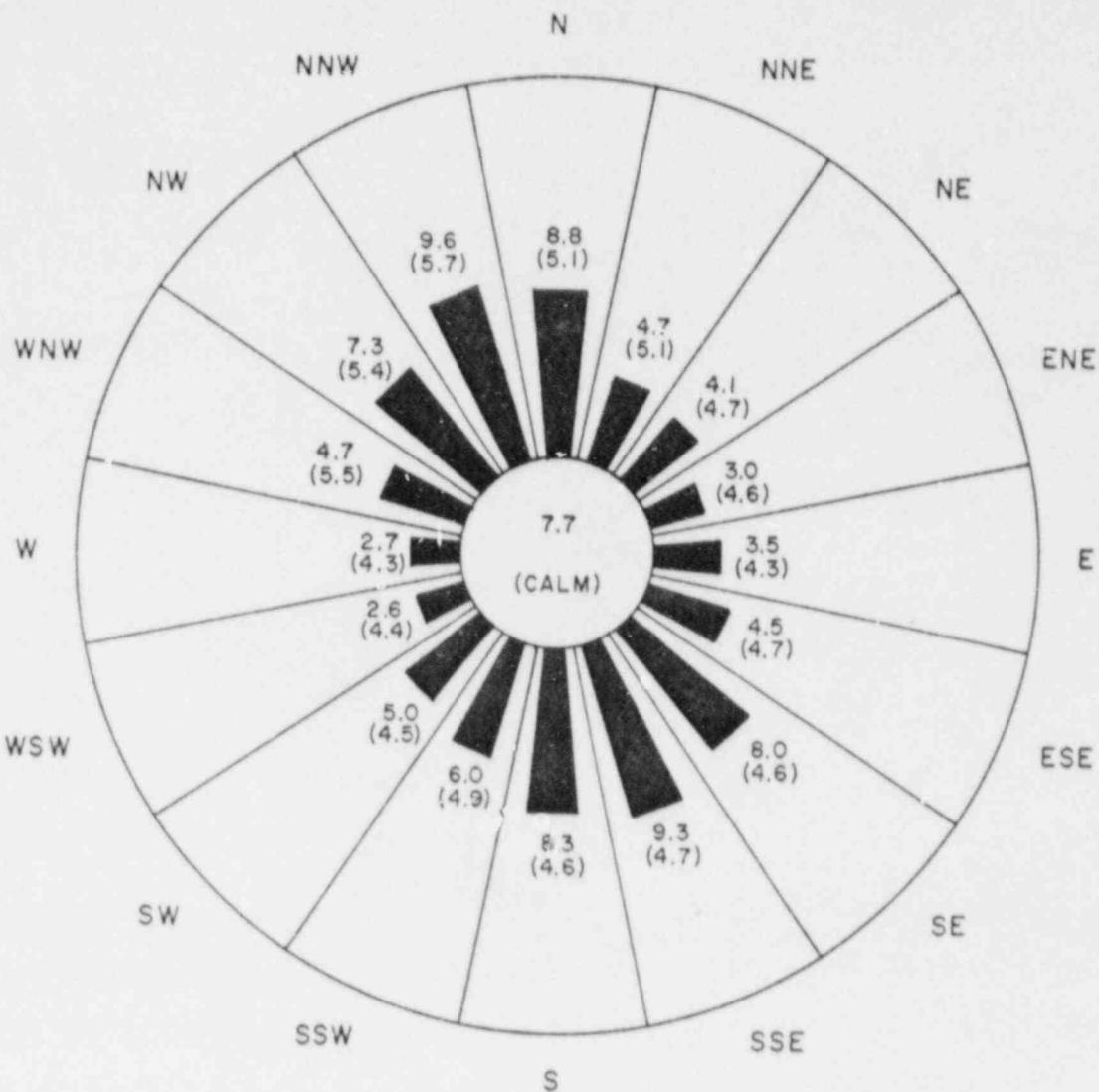
From the wind data available in Table 5.8 (96.93m) and Table 5.112 (10.67m), it appears that the Cooper site experiences the pronounced bimodal wind characteristics that is usually associated with valley flow patterns. For example, at the 96.93m level, winds from the south-southeast, south, and south-southwest total about 31%, and winds from the north-northwest, north, and north-northeast total about 25%. The 10.67m level indicates a similar pattern with winds from the south-southeast, south, and south-southwest totaling about 34%, and winds from the north-northwest, north, and north-northeast totaling about 26%. Provide further justification for the assumption made in Section 3.3 that correction factors for open terrain from Figure 2 of Regulatory Guide 1.111 were applicable, rather than the valley flow correction factors provided on Page 1.111-9 of Regulatory Guide 1.111.

RESPONSE 6

The wide, low valley of the Missouri River on which the Cooper Nuclear Station is located would not be expected to produce the valley drainage winds under stable atmospheric conditions at night for which the terrain correction factor of 5 applies. The reason for the frequency

distribution that might indicate a valley bimodal flow characteristics is that this is the normal climatological wind frequency characteristic of the Nebraska-Missouri region. Figures 6.1 and 6.2 show the annual wind roses for Lincoln, Nebraska, and the 96.93-meter-level of the Cooper Nuclear wind system, respectively. It can be seen that Lincoln, located completely out of a valley but within the same climatological region, has very similar wind distributions.

To further help in understanding the flow characteristics of the Cooper Nuclear Station, a stability wind rose of the 96.93-meter-level using both F and G stability classes, those that would occur during valley drainage wind periods, was derived and shown on Figure 6.3. It can be seen that, although there is a definite peak in the normal south to southwest flows, there is also a very definite lack of a north sector flow. The latter flows would be those of the drainage flow pattern. There is, therefore, no support of a bimodal flow pattern at the Cooper Nuclear Station.

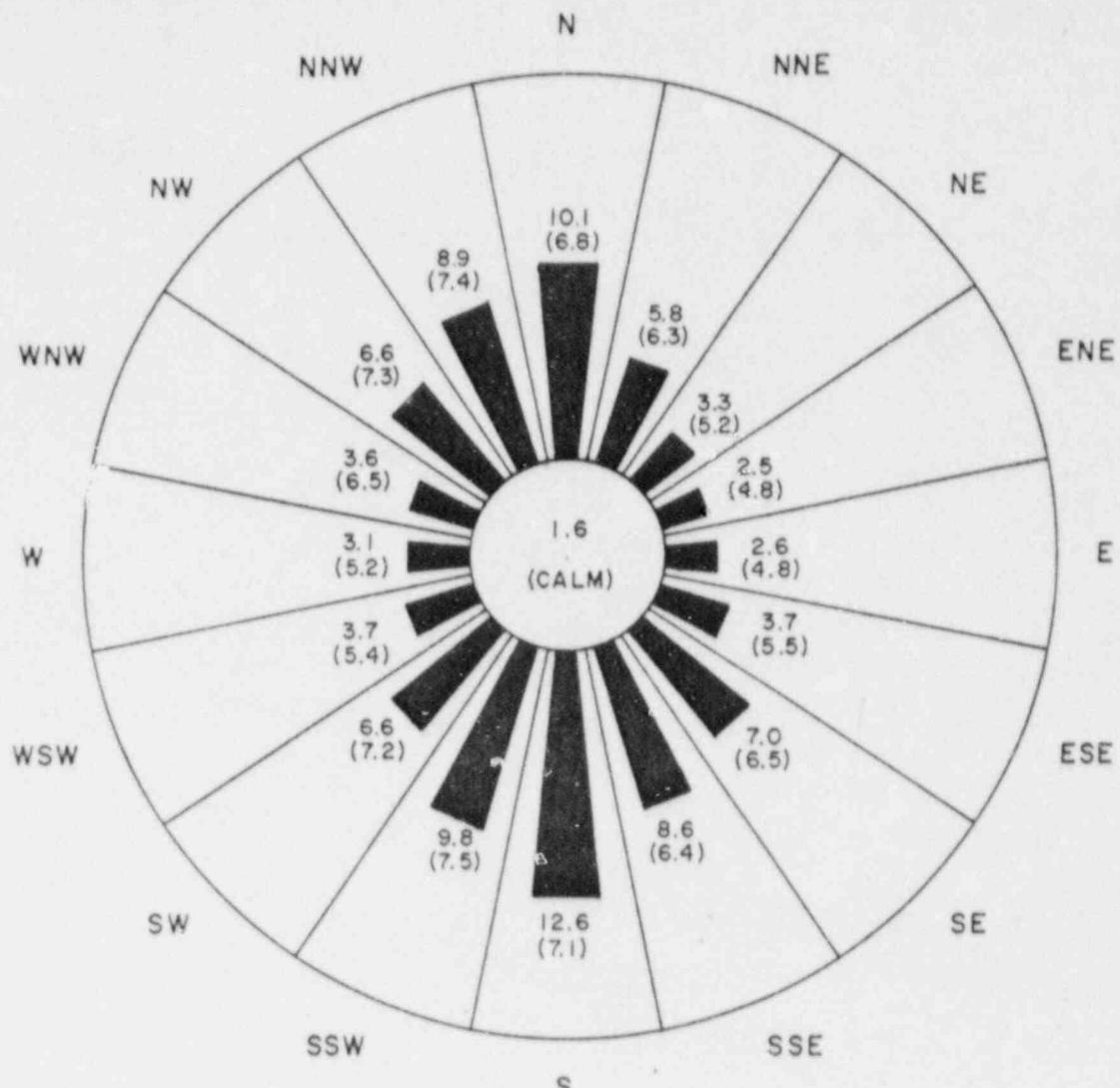


KEY:

- 5.3 FREQUENCY (PERCENT)
- (28) MEAN SPEED (MPS)

FIGURE 6.1
WIND FREQUENCY DISTRIBUTION
LINCOLN AFB, LINCOLN, NEBRASKA

OCTOBER, 1942-AUGUST, 1945 AND JANUARY, 1948-JUNE, 1955
SURFACE WIND SENSOR HEIGHT
ALL STABILITY CLASSES

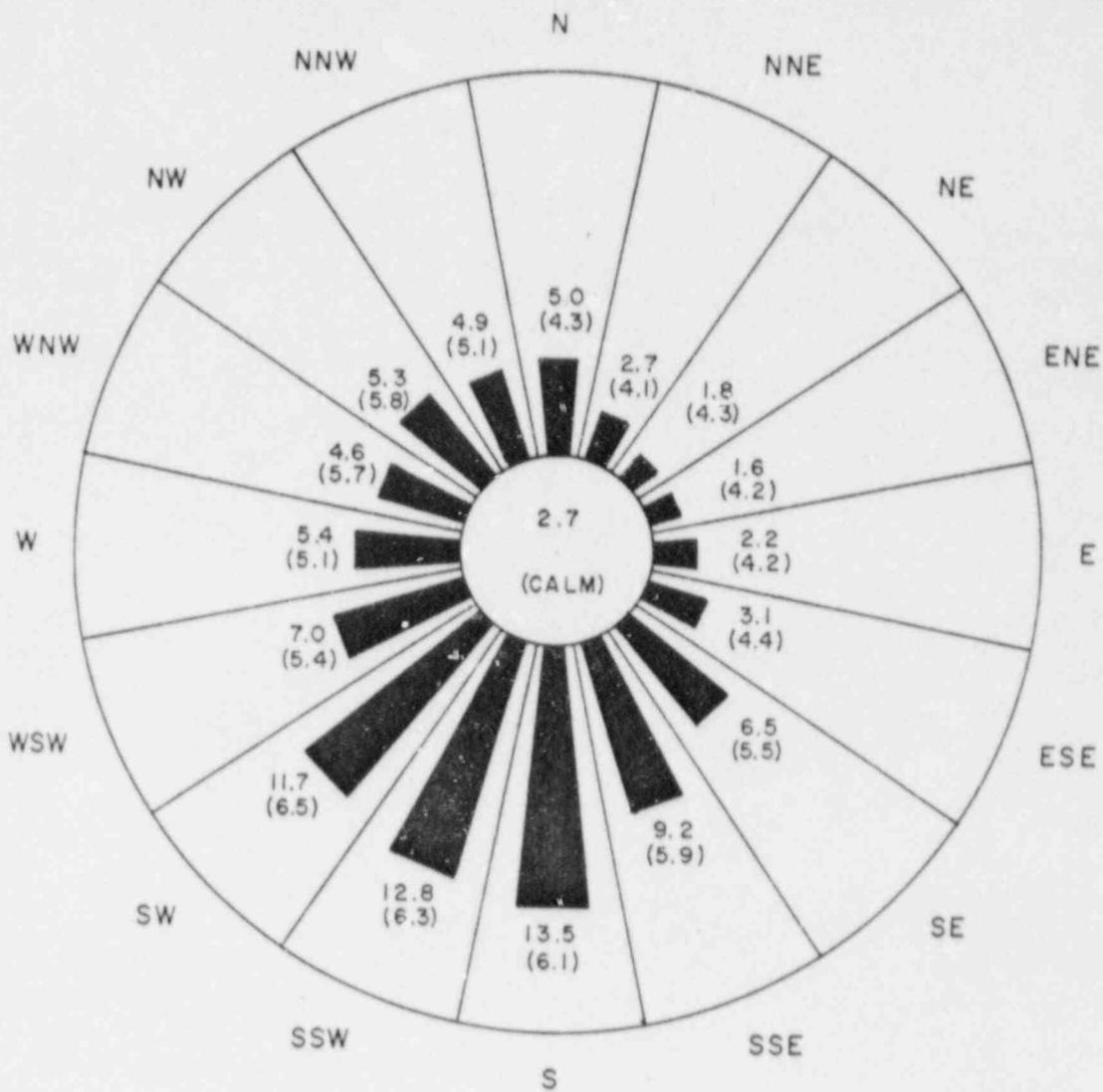


KEY =

5.3 FREQUENCY (PERCENT)
(28) MEAN SPEED (MPS)

FIGURE 6.2
WIND FREQUENCY DISTRIBUTION
COOPER NUCLEAR STATION
NEBRASKA PUBLIC POWER DISTRICT

MARCH 1, 1970 - DECEMBER 31, 1975
96.93 METER WIND SENSOR HEIGHT
ALL STABILITY CLASSES



KEY:

- 5.3 FREQUENCY (PERCENT)
- (2.8) MEAN SPEED (MPS)

FIGURE 6.3
WIND FREQUENCY DISTRIBUTION
COOPER NUCLEAR STATION
NEBRASKA PUBLIC POWER DISTRICT

MARCH 1, 1970 - DECEMBER 31, 1975
96.93 METER WIND SENSOR HEIGHT
STABILITY CLASSES F AND G

QUESTION 7

From the discussion of the location of the meteorological instrumentation provided on page 5-45, and the information provided in Figure 4.1, it is not clear that current meteorological measurements at the Cooper site are representative of conditions away from the plant structures. The lower level sensors could be significantly influenced by plant structures resulting in perturbed wind flow characteristics and non-representative measurements of vertical temperature gradient.

- a) Discuss the location of the meteorological instrumentation in more detail, considering particularly the presence of nearby structures that could influence wind and temperature measurements, and indicate why this data collection program is considered to provide representative measurements.
- b) Provide a figure showing the location of the meteorological sensors with respect to elevations of nearby structures.

RESPONSE 7

- a) The 10.67-meter-level instruments are not located on the Elevated Release Point tower but are located on a pole as shown on Figures 7.1 and 7.2 to be approximately 1250 feet southwest of the Reactor Building, which is 146 feet above the plant base level of 903 feet MSL. This distance is within the generally accepted rule-of-thumb, which says that wind flow at a distance downwind that is

equa. to 5 to 10 times the height of the building or obstacle that perturbed the flow, has returned to its unperturbed nature. Thus, the buildings of the Cooper Nuclear Station do not have an effect on the 10.67-meter wind measurements.



FIGURE 7.1
GENERAL PLAN VIEW
COOPER NUCLEAR STATION
NEBRASKA PUBLIC POWER DISTRICT

DRAWING REFERENCE:

TITLED: CIVIL, OVERALL SITE AND VICINITY PLAN
BY: BURNS AND MURRAY, INC.
ENGINEERS AND CONSTRUCTORS
FOR: CONSUMERS PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
DRAWING NO.: 40031, REV. 1N
DATED: 8-28-75

DAMES & MOORE

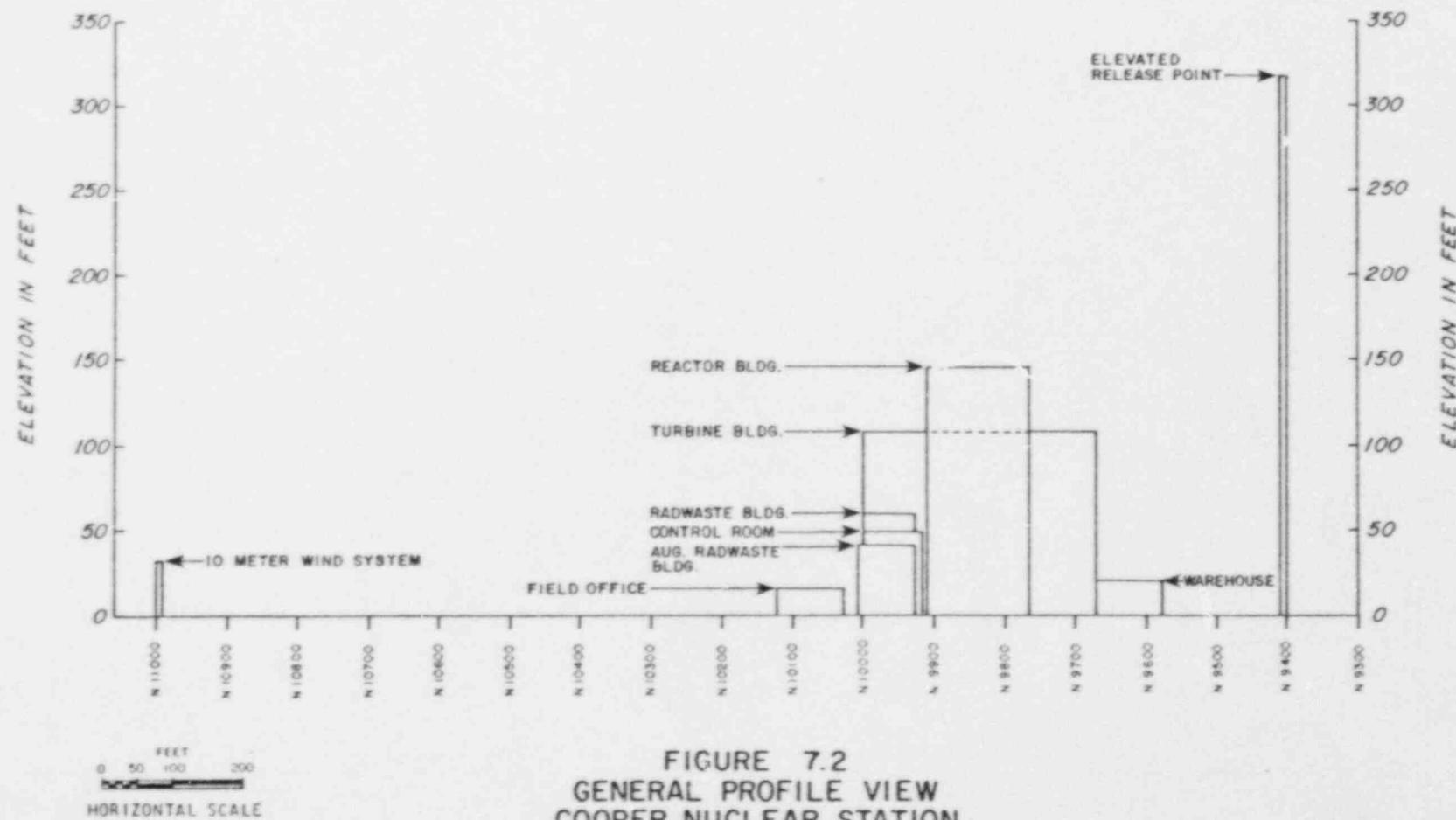


FIGURE 7.2
GENERAL PROFILE VIEW
COOPER NUCLEAR STATION
NEBRASKA PUBLIC POWER DISTRICT

DAMES & MOORE

QUESTION 8

The discussion of the meteorological instrumentation on page 5-46 does not indicate the accuracies of the sensors. Identify the meteorological sensors by manufacturer and model, including accuracy, and compare the accuracy of the entire data collection system for each parameter with the system accuracies recommended in Regulatory Guide 1.23.

RESPONSE 8

Table 8.1 lists the meteorological instrumentation used at the Cooper Nuclear Station with manufacturer, model numbers, accuracies and a comparison to Regulatory Guide 1.23 values.

TABLE 8.1
TOWER MOUNTED EQUIPMENT

Measurement	Level (meters)	Instrument	Manufacturer	Model Number	Accuracy	Threshold	Calibrated Range	Regulatory Guide 1.23 Instrument Accuracies
Wind Speed/ Direction	96.93	Precision Wind Vane, Anemometer	Bendix	120	0-10 mph, <u>+0.5 mph</u> 10-200 mph <u>+1.0 mph</u>	1.0 mph	0-100 mph	<u>+0.5 mph/+5°</u>
Wind Speed ^a	10.67	Precision Cup Anemometer	Teledyne Geotech	50.1	<u>+0.15 mph</u>	0.5 mph	0-90 mph	<u>+0.5 mph</u>
Wind Direction ^a	10.67	Precision Wind Vane	Teledyne Geotech	50.2	<u>+2°</u>	0.8 Km/h	0-540°	<u>+5°</u>
Temperature	10.67	Shielded Aspirated RTD	Rosemount	104MB	<u>+0.26°C</u> <u>-0°C</u>	N/A	-100 to +500°C	<u>+0.5°C</u>
Temperature Difference, ΔT	96.93- 10.67	Shielded, Aspirated RTD	Rosemount	104MB	<u>+0.26°C</u> <u>-0°C</u>	N/A	-20°F to +120°F	<u>+0.1°C</u>
Precipitation ^b	Surface	Tipping Bucket Rainage	Meteorology Research, Inc.	302	<u>+3% @ 3"/hr</u>	0.01"	0.01" to 73"/hr	N/A

^aThese are mounted on a separate pole.

^bMounted on warehouse building.

TABLE 8.1 (continued)

ALLIED EQUIPMENT

Measurement	Level (meters)	Instrument	Manufacturer	Model Number	Accuracy	Threshold	Calibrated Range
Temperature Difference, ΔT	96.93- 10.67	Linear Bridge	Rosemount	414L	0.1%	N/A	-100 to +500°C
Temperature Difference, ΔT	96.93- 10.67	Recorder	Honeywell	c	N/A	N/A	-15°F to 20°F
Rainfall	SFC	Recorder	Science Associates	d	N/A	N/A	N/A
Temperature	96.93	Recorder	Honeywell	c	N/A	N/A	-20°F to 120°F
Wind Direction, Speed	96.93	Recorder	Bendix	141-5	0-10 mph, +0.5 mph - 10-100 mph, +1.0 mph	N/A	0-100 mph
Thermal Shield	10.67; 96.93	Aspirator Thermal Shield	Packard Bell	M327	N/A	N/A	N/A
Wind Direction, Speed	10.67	Recorder	Esterline Angus	E1102K	Better than ±1%	N/A	--
Power Supply	N/A	All Processor Modules	Teledyne Geotech	48.11	±10%	N/A	1.3A of +12VDC 0.75A of -12VDC 3A of chrono Pen power
Wind Direction Converter	10.67; 96.93	540° Con- verter	Teledyne Geotech	40.21-3	N/A	N/A	N/A

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TABLE 8.1 (continued)

ALLIED EQUIPMENT

Measurement	Level (meters)	Instrument	Manufacturer	Model Number	Accuracy	Threshold	Calibrated Range
Wind Speed, Signal processor	10.67; 96.93	---	Telodyne Geotech	40-11C	+0.1%	N/A	0-100 mph
Wind Direction, Signal processor	10.67; 96.93	---	Telodyne Geotech	40-21-A-1	+0.1%	N/A	0-360°

QUESTION 9

The data necessary for joint frequency distributions of wind speed and wind direction at the 10.67m level by atmospheric stability (Tables 5.105 - 5.112) for the period of record 3/1/74 - 12/31/75 was only 65%. Identify the causes of instrument outage, the dates and times of significant instrument outage, and the corrective action taken to minimize recurrences of prolonged instrument outage.

RESPONSE 9

Tables 9.1 through 9.6 give the periods of data outages for the 10.67-meter and 96.93-meter wind direction and wind speed; and the delta temperature between 10.67 and 96.93 meters and between 51.2 and 96.93 meters. The upper-level data are included as they were substituted when the lower-level data was missing.

Data outages for periods of 6 hours or longer are listed in the tables. The 6-hour period was chosen arbitrarily.

During the period of March 1, 1974 through December 31, 1975, after installation and start-up of the 11-meter wind system, a 60 Hz noise in the system from nearby power lines may have accounted for many of the outages for which no corrective action was taken.

There is no documentation of outages or problems with the 96.93-meter wind speed and direction monitor during the

period in question. During 1974 and 1975 there were several cases of chart inking problems which could account for many of the short outages. There was also a question of whether the chart speed was correct. This was traced to the manner with which various people marked the charts. The problems have been corrected by more frequent recorder surveillance and instructing the operators to mark charts in a consistent manner.

Although the data validity percentages for 1974 and 1975 tend to be less than 90%, data for 1976 and the first quarter of 1977 have had excellent recovery. The validity percentages for the five quarters from January 1976 through March 1977 are generally greater than 95% with the exception of the first quarter of 1976 (84%) when the tail of the 35-foot wind direction monitor failed, requiring several days to repair.

TABLE 9.1
PERIODS OF DATA OUTAGE FOR THE 97-METER WIND SPEED^a

Date of Outages (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
03/07/70/03	03/07/70/12	10		
03/19/70/17	03/22/70/12	68		
04/04/70/02	04/04/70/12	11		
04/12/70/10	04/12/70/17	8		
05/01/70/03	05/01/70/14	12		
05/03/70/11	05/04/70/01	15		
08/09/70/18	08/10/70/07	14		
09/02/70/09	09/02/70/15	7		
10/26/70/18	10/27/70/08	15		
10/27/70/21	10/28/70/06	10		
11/25/70/02	11/25/70/07	6		
12/04/70/11	12/05/70/14	28		
01/12/71/02	01/12/71/08	7		
02/02/71/00	02/02/71/08	9		
03/27/71/23	03/28/71/12	14		
06/19/71/00	06/19/71/08	9		
09/30/71/16	10/01/71/07	16		
11/21/71/10	11/22/71/08	23		
04/05/72/00	04/05/72/07	8		
12/08/72/18	12/09/72/13	20		
12/22/72/19	12/23/72/13	19		

^aThe data used in this analysis covers from March 1, 1970 through December 31, 1975.

^bThere is no documentation of the causes or corrective actions taken of this parameter.

TABLE 9.1 (continued)

Date of Outages (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
01/03/73/08	01/05/73/19	60		
02/03/73/14	02/04/73/00	11		
04/05/73/17	04/05/73/23	7		
04/08/73/18	04/08/73/23	6		
05/11/73/00	05/12/73/00	25		
06/10/73/00	06/10/73/05	6		
06/10/73/20	06/11/73/07	12		
07/02/73/02	07/02/73/08	7		
07/10/73/09	07/10/73/14	6		
08/27/73/02	08/31/73/13	108		
09/10/73/14	09/10/73/19	6		
10/01/73/10	10/02/73/06	21		
10/18/73/03	10/18/73/16	14		
11/03/73/12	11/04/73/01	14		
11/20/73/12	11/20/73/21	10		
12/19/73/11	12/19/73/16	6		
01/21/74/11	01/21/74/23	13		
02/06/74/10	02/06/74/19	10		
02/23/74/02	02/23/74/10	9		
03/22/74/18	03/22/74/23	6		
04/08/74/10	04/09/74/08	25		
05/10/74/23	05/11/74/04	6		
05/17/74/02	05/17/74/08	7		
05/27/74/10	05/27/74/23	14		
06/13/74/10	06/14/74/00	15		
06/30/74/02	06/30/74/23	22		
07/16/74/18	07/17/74/08	15		
08/18/74/01	08/18/74/23	23		
09/03/74/18	09/04/74/08	15		
09/20/74/10	09/21/74/17	32		

TABLE 9.1 (continued)

Date of Outages (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
10/08/74/02	10/08/74/19	18		
10/24/74/09	10/26/74/14	54		
11/10/74/20	11/11/74/01	6		
11/27/74/03	11/27/74/10	8		
12/13/74/18	12/14/74/08	15		
12/29/74/19	12/30/74/01	7		
01/31/75/02	01/31/75/14	13		
01/31/75/17	02/02/75/00	32		
04/03/75/18	04/04/75/07	14		
04/20/75/18	04/20/75/23	6		
05/07/75/03	05/08/75/07	29		
05/24/75/03	05/24/75/08	6		
06/09/75/16	06/10/75/00	9		
09/19/75/18	09/20/75/09	16		
10/06/75/03	10/06/75/16	14		
10/07/75/09	10/07/75/14	6		
10/22/75/23	10/23/75/17	19		
11/09/75/05	11/09/75/14	10		

TABLE 9.2

PERIODS OF DATA OUTAGE FOR THE 97-METER WIND DIRECTION

Date of Outages (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
03/01/70/13	03/02/70/08	20		
03/06/70/14	03/06/70/19	6		
03/07/70/03	03/07/70/12	10		
03/19/70/17	03/22/70/12	68		
03/27/70/02	03/27/70/08	7		
04/01/70/12	04/02/70/08	21		
04/04/70/02	04/04/70/12	11		
04/09/70/12	04/09/70/18	7		
04/12/70/10	04/12/70/17	8		
05/01/70/03	05/01/70/14	12		
05/03/70/10	05/04/70/01	16		
05/07/70/17	05/08/70/07	15		
05/10/70/11	05/11/70/07	21		
05/30/70/06	05/30/70/12	7		
06/19/70/12	06/20/70/09	2		
07/07/70/20	07/08/70/06	11		
08/09/70/18	08/10/70/07	14		
09/02/70/09	09/02/70/15	7		
10/22/70/22	10/23/70/07	10		
10/24/70/17	10/25/70/10	18		
10/26/70/18	10/27/70/08	15		
10/27/70/21	10/28/70/06	10		
11/25/70/02	11/25/70/07	6		
12/04/70/11	12/05/70/14	28		
12/14/70/03	12/14/70/10	8		

^aThe data used in this analysis covers March 1, 1970 through December 31, 1975.

^bThere is no documentation of the causes or corrective actions taken of this parameter.

TABLE 9.2 (continued)

Date of Outages (month/day/year/'ocur')		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
01/09/71/13	01/10/71/09	21		
01/12/71/02	01/12/71/08	7		
02/02/71/00	02/02/71/08	9		
03/27/71/23	03/28/71/12	14		
04/24/71/11	04/24/71/18	8		
05/03/71/18	05/04/71/07	14		
06/01/71/00	09/17/71/13	2606		
09/30/71/16	10/01/71/07	16		
11/21/71/10	11/22/71/08	23		
12/22/71/14	12/23/71/04	15		
01/21/72/15	01/22/72/00	10		
01/23/72/13	01/24/72/08	20		
03/29/72/14	03/30/72/00	11		
03/30/72/13	03/30/72/21	9		
04/02/72/00	04/02/72/06	7		
05/05/72/00	04/05/72/07	8		
05/09/72/01	05/09/72/10	10		
05/25/72/04	05/25/72/09	6		
05/31/72/03	05/31/72/09	7		
07/04/72/22	07/05/72/11	14		
07/09/72/22	07/10/72/04	7		
07/13/72/09	07/13/72/16	8		
07/29/72/15	07/29/72/21	7		
08/09/72/03	08/09/72/08	6		
11/22/72/02	11/22/72/07	6		
12/08/72/18	12/09/72/13	20		
12/22/72/19	12/23/72/13	19		
01/03/73/08	01/05/73/19	60		
02/03/73/14	02/04/73/00	11		

TABLE 9.2 (continued)

Date of Outages (month/day/year/hour)		Number of Hours	Cause	Corrective Action ^b
From	To			
02/09/73/08	02/09/73/17	10		
03/23/73/22	03/24/73/16	19		
04/08/73/18	04/08/73/23	6		
06/10/73/00	06/10/73/05	6		
06/10/73/20	06/11/73/07	12		
08/11/73/07	08/12/73/06	24		
08/27/73/02	08/31/73/13	108		
09/05/73/20	09/06/73/03	8		
09/06/73/08	09/06/73/14	7		
10/01/73/10	10/02/73/06	21		
10/09/73/04	10/10/73/12	33		
10/18/73/03	10/18/73/16	14		
11/03/73/12	11/04/73/01	14		
11/20/73/12	11/20/73/21	10		
12/10/73/06	12/10/73/21	16		
12/19/73/11	12/19/73/16	6		
12/22/73/15	12/22/73/20	6		
01/21/74/11	01/21/74/23	13		
01/27/74/17	01/28/74/01	9		
02/06/74/10	02/06/74/19	10		
02/23/74/02	02/23/74/10	9		
03/17/74/05	03/17/74/11	7		
03/22/74/18	03/22/74/23	6		
04/08/74/10	04/09/74/08	3		
04/16/74/14	04/16/74/20	7		
05/10/74/23	05/11/74/04	6		
05/27/74/10	05/27/74/23	14		
06/01/74/13	06/01/74/20	8		
06/11/74/02	06/11/74/07	6		
06/13/74/10	06/14/74/00	15		

TABLE 9.2 (continued)

Date of Outage (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
06/30/74/02	06/30/74/23	22		
07/14/74/13	07/15/74/12	24		
07/16/74/18	07/17/74/08	15		
08/18/74/01	08/18/74/23	23		
09/03/74/18	09/04/74/08	15		
09/20/74/10	09/21/74/17	32		
10/06/74/00	10/07/74/10	35		
10/08/74/02	10/08/74/19	18		
10/24/74/09	10/26/74/14	54		
12/13/74/18	12/14/74/08	15		
12/19/74/09	12/20/74/11	27		
01/31/75/02	01/31/75/14	13		
02/21/75/17	02/22/75/00	8		
03/03/75/02	03/03/75/07	6		
03/23/75/13	03/24/75/03	15		
04/03/75/18	04/04/75/07	14		
04/20/75/18	04/20/75/23	6		
05/07/75/03	05/08/75/07	29		
05/24/75/03	05/24/75/08	6		
06/09/75/16	06/10/75/00	9		
08/13/75/13	08/14/75/02	14		
09/19/75/18	09/20/75/09	16		
10/06/75/03	10/06/75/16	14		
10/22/75/23	10/23/75/17	19		
11/09/75/05	11/09/75/14	10		
12/27/75/01	12/27/75/07	7		

TABLE 9.3

PERIODS OF DATA OUTAGE FOR THE 11 - 97 METER DELTA-T^a

Date of Outages (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
05/03/70/11	05/04/70/01	15		
09/02/70/09	09/02/70/14	6		
12/15/70/09	12/15/70/15	7		
02/08/71/01	02/08/71/09	9		
04/07/71/00	04/07/71/08	9		
04/18/71/10	04/18/71/17	8		
11/10/71/20	11/11/71/08	13		
01/04/72/23	01/05/72/08	10		
01/11/72/07	01/11/72/15	9		
01/12/72/09	01/13/72/09	25		
07/17/72/05	07/17/72/13	9		
07/30/72/17	07/31/72/05	13		
09/11/72/19	09/12/72/00	6		
10/24/72/20	10/25/72/03	8		
12/08/72/18	12/09/72/14	21		
12/22/72/19	12/23/72/13	19		
06/16/73/00	06/16/73/11	12		
07/02/73/01	07/02/73/08	8		
08/27/73/21	08/31/73/15	91		
09/19/73/08	09/19/73/15	8		
09/29/73/13	09/30/73/11	23		
01/11/74/14	01/13/74/01	36		
01/29/74/17	01/30/74/16	24		
03/19/74/12	03/20/74/05	18		
04/28/74/08	04/29/74/00	17		

^aThe data used in this analysis covers March 1, 1970 through December 31, 1975.^bThere is no documentation of the causes or corrective actions taken of this parameter.

TABLE 9.3 (continued)

Date of Outages (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
06/16/74/20	06/17/74/02	7		
06/24/74/17	06/24/74/23	7		
06/25/74/03	06/25/74/10	8		
06/26/74/20	06/27/74/06	11		
07/06/74/15	07/07/74/02	12		
09/18/74/18	09/20/74/06	37		
09/21/74/02	09/23/74/06	53		
09/25/74/22	09/26/74/07	10		
10/21/74/18	10/21/74/23	6		
12/12/74/04	12/12/74/10	7		
12/22/74/11	12/22/74/18	8		
02/10/75/08	02/10/75/14	7		
04/30/75/19	05/01/75/05	11		
09/29/75/17	10/01/75/06	62		
10/22/75/18	10/23/75/12	19		
12/06/75/17	12/07/75/15	23		

TABLE 9.4
PERIODS OF DATA OUTAGE FOR THE 11-METER WIND SPEED^a

Date of Outages (month/day/year/hour)		Number of Hours	Cause	Corrective Action
From	To			
03/06/74/00	04/03/74/10	683	Electronic chassis failure.	Sent it back to vendor to rebuild.
06/06/74/02	06/17/74/14	277	Lightning destroyed transmitter.	Ordered spare and installed.
07/08/74/04	07/08/74/17	14		
07/09/74/21	07/10/74/09	13		
07/11/74/07	07/15/74/07	97		
08/02/74/23	08/03/74/11	13		
08/04/74/12	08/05/74/13	26		
08/08/74/00	08/08/74/06	7		
08/09/74/04	08/09/74/11	8		
08/09/74/17	08/10/74/09	17		
08/16/74/20	08/17/74/08	13		
08/21/74/14	08/22/74/05	16		
08/22/74/20	08/24/74/13	42		
09/02/74/14	09/06/74/11	94		
09/07/74/00	09/09/74/11	60		
09/09/74/16	09/10/74/08	17	Instrument was out of service periodically	The instrument was rebuilt to eliminate several chassis grounds which caused the 60 Hz noise.
09/15/74/20	09/19/74/20	97	to investigate and correct a problem with 60 Hz noise.	"
09/23/74/20	09/24/74/08	13	"	"
09/24/74/18	09/26/74/10	41	"	"
09/28/74/03	09/30/74/01	47	"	"
09/30/74/16	10/02/74/01	34		
10/06/74/21	10/07/74/08	12		
10/09/74/16	10/10/74/05	14		

^aThe data used in this analysis covers from March 1, 1974 through December 31, 1975.

TABLE 9.4 (continued)

Date of Outages (month/day/year/hour)		Number of Hours	Cause	Corrective Action
From	To			
10/13/74/19	10/14/74/02	8	Instrument was out of service periodically to investigate and correct a problem with 60 Hz noise.	The instrument was rebuilt to eliminate several chassis grounds which caused the 60 Hz noise.
10/14/74/04	10/14/74/09	6		
10/17/74/17	10/17/74/22	6		
10/18/74/01	10/18/74/06	6		
10/19/74/02	10/21/74/03	50		
10/30/74/14	11/01/74/14	49		
11/10/74/08	11/14/74/07	96		
11/15/74/10	11/23/74/04	187		
11/24/74/03	11/30/74/12	154		
12/24/74/13	12/26/74/17	53		
01/02/75/07	01/05/75/06	72		
01/06/75/01	01/20/75/20	356		
01/21/75/16	02/03/75/23	320		
02/06/75/09	02/06/75/23	15		
02/11/75/02	02/21/75/14	253		
02/21/75/17	02/25/75/01	81		
02/25/75/08	03/04/75/09	170		
03/06/75/22	03/07/75/10	13		
03/08/75/00	03/09/75/09	34		
03/16/75/13	03/17/75/07	19		
03/18/75/08	03/26/75/08	193		
04/27/75/08	04/28/75/05	22		
05/03/75/12	05/03/75/19	8		
05/06/75/19	05/11/75/06	108		
05/12/75/02	05/12/75/07	6		
05/24/75/13	05/25/75/10	22		
05/26/75/00	05/27/75/13	38		
06/01/75/05	06/01/75/17	13		
06/02/75/15	06/03/75/15	25		
06/04/75/04	06/06/75/06	51		

TABLE 9.4 (continued)

Date of Outages (month/day/year/hour)		Number of Hours	Cause	Corrective Action
From	To			
06/11/75/20	06/16/75/02	103		
06/17/75/01	06/17/75/10	10		
06/18/75/09	06/24/75/13	149		
07/01/75/22	07/02/75/08	11		Insulated cross arm from the pole to eliminate intermittent grounded signal.
08/08/75/15	08/09/75/00	10		
09/01/75/20	09/02/75/10	15		
09/02/75/23	09/04/75/01	27		Further insulated cross arm from the pole to eliminate intermittent grounded signal.
09/04/75/04	09/04/75/16	13		
09/16/75/00	09/16/75/20	21		
10/06/75/08	10/06/75/16	9		
10/07/75/09	10/07/75/14	6		
10/23/75/11	10/23/75/18	8		
11/08/75/17	11/09/75/00	6		
11/29/75/22	11/30/75/18	21		
12/12/75/10	12/31/75/23	470		

TABLE 9.5

PERIODS OF DATA OUTAGE FOR THE 11-METER WIND DIRECTION^a

Date of Outages (month/day/year/hour)		Number of Hours	Cause	Corrective Action
From	To			
03/04/74/04	03/05/74/00	21		
03/06/74/00	04/03/74/10	683	Electronic chassis failure.	Sent it back to vendor to rebuild.
04/22/74/02	04/22/74/07	6		
04/28/74/21	04/29/74/07	11		
05/22/74/00	05/22/74/06	7		
06/06/74/02	06/17/74/14	277	Lightning destroyed transmitter.	Ordered spare and installed.
07/08/74/04	07/08/74/17	14		
07/09/74/21	07/10/74/09	13		
07/11/74/07	07/15/74/07	97		
08/02/74/23	08/03/74/11	13		
08/18/74/00	08/18/74/07	8		
09/28/74/03	09/30/74/01	47	Instrument was out of service periodically	The instrument was rebuilt
10/17/74/17	10/17/74/22	6	to investigate and correct a problem with	to eliminate several chassis grounds which caused the 60 Hz noise.
10/18/74/01	10/18/74/06	6		
10/19/74/02	10/21/74/03	50		
10/24/74/16	10/24/74/20	5		
10/30/74/14	11/01/74/14	49		
11/10/74/08	11/11/74/04	21		
11/11/74/20	11/12/74/07	12		
12/06/74/01	12/06/74/08	8		
12/09/74/07	12/09/74/13	7		
12/14/74/12	12/15/74/01	14		

^aThe data used in this analysis covers March 1, 1974 through December 31, 1975.

TABLE 9.5 (continued)

Date of Outages (month/day/year/hour)		Number of Hours	Cause	Corrective Action
From	To			
12/31/74/02	12/31/74/08	7		
01/11/75/07	01/11/75/12	6		
02/18/75/02	02/18/75/10	9		
02/25/75/08	02/25/75/13	6		
02/25/75/16	03/04/75/09	162		
03/09/75/06	03/09/75/23	18		
03/11/75/09	03/11/75/19	11		
03/13/75/10	03/13/75/16	7		
03/15/75/22	03/17/75/12	39		
03/18/75/08	03/26/75/08	193		
06/01/75/05	06/01/75/17	13		
06/12/75/00	06/12/75/08	9		
06/22/75/17	06/24/75/13	45		
07/01/75/22	07/02/75/08	11		Insulated cross arm from pole to eliminate intermittent grounded signal.
08/08/75/15	08/09/75/00	10		
08/24/75/14	08/25/75/17	28		
09/16/75/00	09/16/75/20	21		
10/06/75/08	10/06/75/16	9		
10/07/75/09	10/07/75/14	6		
10/17/75/05	10/18/75/09	29		
10/23/75/02	10/23/75/18	17		
10/24/75/16	10/25/75/19	28		
11/08/75/17	11/09/75/00	8		
12/02/75/14	12/03/75/05	16		
12/11/75/02	12/12/75/05	28		
12/12/75/10	12/31/75/23	470		

TABLE 9.6
PERIODS OF DATA OUTAGE FOR THE 51 - 97 METER DELTA-T^a

Date of Outages (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
05/03/70/11	05/04/70/01	15		
05/31/70/16	06/01/70/07	16		
06/21/70/22	06/22/70/07	10		
09/02/70/09	09/02/70/14	6		
09/10/70/20	09/11/70/07	12		
04/18/71/10	04/18/71/17	8		
05/10/71/18	05/11/71/07	14		
10/12/71/00	10/12/71/05	6		
11/02/71/20	11/03/71/08	13		
11/11/71/01	11/11/71/08	8		
01/11/72/07	01/11/72/15	9		
01/12/72/09	01/13/72/09	25		
04/16/72/22	04/17/72/05	8		
06/14/72/22	06/15/72/08	11		
07/09/72/22	07/10/72/05	8		
07/16/72/08	07/16/72/13	6		
09/11/72/19	09/12/72/00	6		
10/24/72/20	10/25/72/03	8		
12/08/72/18	12/09/72/14	21		
12/22/72/19	12/23/72/13	19		
01/24/73/02	01/24/73/13	12		
06/16/73/00	06/16/73/11	12		
07/02/73/01	07/02/73/08	8		
07/10/73/02	07/10/73/17	16		
08/27/73/21	08/31/73/15	91		
09/19/73/08	09/19/73/15	8		

^aThe data used in this analysis covers from March 1, 1970 through December 31, 1975.

^bThere is no documentation of the causes or corrective actions taken of this parameter.

TABLE 9.6 (continued)

Date of Outages (month/day/year/hour)		Number of Hours	Cause ^b	Corrective Action ^b
From	To			
09/29/73/13	09/30/73/11	23		
10/23/73/08	10/23/73/14	7		
01/11/74/14	01/13/74/01	36		
01/29/74/17	01/30/74/16	24		
02/26/74/18	02/27/74/06	13		
03/03/74/08	03/03/74/18	11		
03/19/74/12	03/20/74/05	18		
03/29/74/22	03/30/74/12	15		
04/05/74/23	04/06/74/09	11		
04/07/74/03	04/07/74/15	13		
04/08/74/17	04/08/74/22	6		
04/28/74/08	04/29/74/00	17		
05/06/74/01	05/06/74/21	21		
06/01/74/16	06/02/74/00	9		
06/16/74/20	06/17/74/02	7		
07/06/74/15	07/07/74/02	12		
10/21/74/13	10/21/74/23	11		
12/12/74/04	12/12/74/10	7		
12/22/74/11	12/22/74/18	8		
02/10/75/08	02/10/75/14	7		
03/03/75/01	03/03/75/08	8		
04/30/75/19	05/01/75/05	11		
08/23/75/23	08/24/75/12	14		
09/09/75/09	09/09/75/16	8		
09/19/75/10	09/19/75/15	6		
09/29/75/17	10/02/75/06	62		
10/06/75/08	10/06/75/16	9		
10/22/75/18	10/23/75/12	19		



Nebraska Public Power District

GENERAL OFFICE
P. O. BOX 499, COLUMBUS, NEBRASKA 68601
TELEPHONE (402) 564-8561

February 8, 1978

Director, Nuclear Reactor Regulation
Attention: Mr. Don K. Davis, Acting Chief
Operating Reactors Branch No. 2
Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Conformance to Appendix I of 10 CFR Part 50
Cooper Nuclear Station
NRC Docket No. 50-298, DPR-46

Dear Mr. Davis:

This letter is in response to your letter to the Nebraska Public Power District dated August 22, 1977 which requested additional information relative to our conformance to the subject regulation.

In our letter, dated November 14, 1977, the District provided responses to the remaining questions, with the exception of question 10, which we indicated would require significant re-analysis. The re-analysis has been completed and has been incorporated as Revision 1 of our original submittal (dated January 12, 1977). Additionally, for completeness, we have included, with Revision 1, Supplement No. 2, which contains our responses to questions 10 and 11.

Should you have any questions or comments relative to the attached information, please do not hesitate to contact me.

In addition to three signed originals, 37 copies of this information are submitted for your review.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Jay H. Pilant".

Jay H. Pilant
Director of Licensing and
Quality Assurance

JMP:cmk

Attachment

BB04200593 BB0415
PDR ADOCK 05000298
P PDR

Mr. Don K. Davis
February 8, 1978
Page Two

STATE OF NEBRASKA)
) ss
PLATTE COUNTY)

Jay M. Pilant, being first duly sworn, disposes and says that he is an authorized representative of the Nebraska Public Power District, a public corporation and political subdivision of the State of Nebraska; that he is duly authorized to submit this information on behalf of Nebraska Public Power District; and that the statements in said application are true to the best of his knowledge and belief.

Jay M. Pilant
Jay M. Pilant

Subscribed in my presence and sworn to before me this 8th day of February, 1978.

Carol A. King
NOTARY PUBLIC

My Commission expires June 27, 1978.

