AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 4781

FILE: Appl.

FROM:	DATE OF DOC	DATE REC'D	LTR	MEMO	RPT	OTHER
Tennessee Valley Authority Chattanooga, Tennessee 37401 J. E. Gilleland	5-28-74	5-30-74	X			

TO:	ORIG	CC	OTHER	
Mr. Giambusso	1 signed			SENT AEC PDR SENT LOCAL PDR

CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO:
	XXXX			1	50-438/439

DESCRIPTION:
Ltr trans the following:

** D. Davis W/1Adv Cy

DIST PER D. DAVIS

Do Not Remove

ACKNOWLEDGED

PLANT NAME: Bellefonte Units 1 & 2

ENCLOSURES:
(1) One Year(11-1-72 thru 10-31-73) of (1) Joint Percentage Frequencies of Wind Direction & Wind Speed.....(3 cys rec'd)
(2) Percent Occurrence of Wind Speed for All Wind Directions..... (3 cys rec'd)
(3) Copy of punch card data for the above material.....Sent to D. Davis(1 Cy)

FOR ACTION/INFORMATION 5-31-74 AB

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GIAMBUSSO	PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	SHAO		MAIGRET (L)	DUBE w/Input
MOORE (L)(BWR)	STELLO	ENVIRO	REED (E)	
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SKOVHOLT (L)	NOVAK	DICKER	SHEPPARD (L)	C. MILES
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EXTERNAL DISTRIBUTION LB

1 - LOCAL PDR
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1 - ASLB
1 - P. R. DAVIS (AEROJET NUCLEAR)
16 - CYS ACRS HOLDING

(1)(2)(10)-NATIONAL LAB'S
1-ASLBP(E/W Bldg,Rm 529)
1-W. PENNINGTON, Rm E-201 GT
1-CONSULTANT'S
NEWMARK/BLUME/AGBABIAN
1-GERALD ULRIKSON...ORNL
1-B & M SWINEBROAD, Rm E-201 GT

1-PDR-SAN/LA/NY
1-GERALD LELLOUCHE
BROOKHAVEN NAT. LAB
1-AGMED(Ruth Gussman)
RM-B-127, GT.
1-RD..MULLER..F-309 GT

Regulatory File Cy

TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401

TVA 40TH ANNIVERSARY OF PEOPLE IN PARTNERSHIP

May 28, 1974

RECEIVED MAY 30 1974 U.S. ATOMIC ENERGY COMMISSION REGULATORY MAIL SECTION

Mr. A. Giambusso
Deputy Director for Reactor Projects
Directorate of Licensing
U.S. Atomic Energy Commission
7920 Norfolk Avenue
Bethesda, Maryland 20014

Dear Mr. Giambusso:

In the Matter of the Applications of) Docket Nos. 50-438
Tennessee Valley Authority) 50-439

In conformance with the revised procedures for the distribution of supplementary detailed data which was transmitted to us in A. Schwencer's May 6, 1974, letter, please find enclosed three copies of the following material:

One year (November 1, 1972, to October 31, 1973) of (1) Joint Percentage Frequencies of Wind Direction and Wind Speed for Different Stability Classes (A through G), and (2) Percent Occurrence of Wind Speed for All Wind Directions. The wind data are from the 33-foot (10-meter) wind sensors at the onsite temporary facility and the temperature data are from the 33- and 150-foot temperature sensors at the temporary offsite meteorological facility.

Question 2.36 of the PSAR will be amended in Amendment 12 to include a reference to this material.

DOCKETED USAEC MAY 30 1974 REGULATORY MAIL SECTION DOCKET CLERK

4781

Mr. A. Giambusso May 28, 1974

In order to further expedite your review, also please find enclosed one copy of the punch card data for the above material using the AEC's format.

Very truly yours,

J. E. Gilleland

J. E. Gilleland
Assistant to the Manager of Power

Enclosures
CC: Mr. William E. Garner, Esquire
Route 4
Scottsboro, Alabama 35768

William D. Paton, Esq.
Office of the General Counsel
Office of Regulation
U.S. Atomic Energy Commission
Washington, DC 20545

PERCENTAGE FREQUENCIES OF WIND SPEED FOR
DIFFERENT STABILITY CLASSES

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND SPEED (MPH)	STABILITY CLASS A	B	C	D	E	F	G
CALM	0.01	0.04	0.01	0.12	1.31	2.56	1.97
0.6- 3.4	2.14	1.17	1.97	9.14	17.43	11.02	5.41
3.5- 7.4	2.96	1.51	2.44	9.15	10.99	1.69	0.32
7.5-12.4	1.89	0.68	1.17	4.72	4.87	0.23	0.01
12.5-18.4	0.20	0.14	0.11	0.72	1.31	0.06	0.0
18.5-24.4	0.01	0.01	0.0	0.09	0.13	0.0	0.0
>=24.5	0.0	0.0	0.0	0.0	0.02	0.0	0.0
TOTAL	7.20	3.51	5.69	23.82	34.75	13.00	5.74

8069 VALID TEMPERATURE DIFFERENCE READINGS OUT OF 8760 TOTAL HOURS = 92.11 PERCENT

7277 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF 8069 VALID TEMPERATURE DIFFERENCE READINGS

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
TEMPERATURE INSTRUMENTS 33 AND 130 FEET ABOVE GROUND(OFFSITE)
WIND INSTRUMENTS 33 FEET ABOVE GROUND

JOINT FREQUENCY FREQUENCIES OF WIND DIRECTION AND WIND SPEED
FOR DIFFERENT STABILITY CLASSES

STABILITY CLASS A
DELTA T<=-1.9 DEG. C/100M

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND DIRECTION	WIND SPEED(MPH) 0.6=3.4	3.5=7.4	7.5=12.4	12.5=18.4	18.5=24.4	>=24.5	TOTAL
N	0.19	0.34	0.18	0.0	0.0	0.0	0.71
NNE	0.25	0.40	0.10	0.0	0.0	0.0	0.75
NE	0.59	0.71	0.16	0.0	0.0	0.0	1.46
ENE	0.19	0.11	0.0	0.0	0.0	0.0	0.30
E	0.01	0.0	0.0	0.0	0.0	0.0	0.01
ESE	0.05	0.0	0.0	0.0	0.0	0.0	0.05
SE	0.01	0.07	0.03	0.0	0.0	0.0	0.11
SSE	0.04	0.08	0.04	0.03	0.0	0.0	0.19
S	0.05	0.23	0.15	0.01	0.0	0.0	0.44
SSW	0.08	0.26	0.41	0.07	0.0	0.0	0.82
SW	0.12	0.16	0.33	0.0	0.0	0.0	0.61
WSW	0.18	0.27	0.16	0.03	0.01	0.0	0.65
W	0.12	0.05	0.08	0.05	0.0	0.0	0.30
WNW	0.08	0.08	0.08	0.01	0.0	0.0	0.25
NW	0.10	0.12	0.10	0.0	0.0	0.0	0.32
NNW	0.08	0.08	0.07	0.0	0.0	0.0	0.23
SUBTOTAL	2.14	2.96	1.89	0.20	0.01	0.0	7.20

CALM = 0.01

571 STABILITY CLASS A OCCURRENCES OUT OF TOTAL 806* VALID TEMPERATURE DIFFERENCE READINGS

531 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF TOTAL 571 STABILITY CLASS A OCCURRENCES

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
TEMPERATURE INSTRUMENTS 33 AND 130 FEET ABOVE GROUND(OFFSITE)
WIND INSTRUMENTS 33 FEET ABOVE GROUND

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND WIND SPEED
FOR DIFFERENT STABILITY CLASSES

STABILITY CLASS 6
-1.9< DELTA-T<=-1.7 DEG. C/100M

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND DIRECTION	WIND SPEED(MPH) 0.6=3.4	3.5=7.4	7.5=12.4	12.5=18.4	18.5=24.4	>=24.5	TOTAL
N	0.08	0.12	0.04	0.0	0.0	0.0	0.24
NNE	0.12	0.19	0.03	0.04	0.0	0.0	0.38
NE	0.33	0.38	0.03	0.0	0.0	0.0	0.74
ENE	0.11	0.0	0.0	0.0	0.0	0.0	0.11
E	0.01	0.01	0.0	0.0	0.0	0.0	0.02
ESE	0.03	0.01	0.01	0.0	0.0	0.0	0.05
SE	0.01	0.07	0.03	0.0	0.0	0.0	0.11
SSE	0.01	0.05	0.03	0.0	0.0	0.0	0.09
S	0.03	0.14	0.05	0.0	0.0	0.0	0.22
SSW	0.10	0.16	0.07	0.01	0.0	0.0	0.34
SW	0.08	0.15	0.10	0.01	0.0	0.0	0.34
WSW	0.07	0.08	0.11	0.01	0.01	0.0	0.28
W	0.07	0.05	0.08	0.07	0.0	0.0	0.27
WNW	0.04	0.05	0.04	0.0	0.0	0.0	0.13
NW	0.05	0.05	0.03	0.0	0.0	0.0	0.13
NNW	0.03	0.0	0.03	0.0	0.0	0.0	0.06
SUBTOTAL	1.17	1.51	0.68	0.14	0.01	0.0	3.51

CALM = 0.04

293 STABILITY CLASS 6 OCCURRENCES OUT OF TOTAL 8069 VALID TEMPERATURE DIFFERENCE READINGS

263 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF TOTAL 293 STABILITY CLASS 6 OCCURRENCES

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
TEMPERATURE INSTRUMENTS 33 AND 130 FEET ABOVE GROUND(OFFSITE)
WIND INSTRUMENTS 33 FEET ABOVE GROUND

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND WIND SPEED
FOR DIFFERENT STABILITY CLASSES

STABILITY CLASS C
-1.7< DELTA-T<=-1.5 DEG. C/100M

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND DIRECTION	WIND SPEED(MPH) 0.6=3.4	3.5=7.4	7.5=12.4	12.5=18.4	18.5=24.4	≥=24.5	TOTAL
N	0.29	0.34	0.16	0.0	0.0	0.0	0.79
NNE	0.26	0.62	0.14	0.0	0.0	0.0	1.02
NE	0.48	0.37	0.18	0.0	0.0	0.0	1.03
ENE	0.11	0.05	0.0	0.0	0.0	0.0	0.16
E	0.07	0.03	0.0	0.0	0.0	0.0	0.10
ESE	0.0	0.01	0.0	0.0	0.0	0.0	0.01
SE	0.03	0.04	0.0	0.0	0.0	0.0	0.07
SSE	0.05	0.07	0.03	0.0	0.0	0.0	0.15
S	0.07	0.14	0.08	0.01	0.0	0.0	0.30
SSW	0.06	0.16	0.10	0.01	0.0	0.0	0.35
SW	0.11	0.12	0.12	0.01	0.0	0.0	0.36
WSW	0.04	0.19	0.12	0.04	0.0	0.0	0.39
W	0.12	0.12	0.12	0.04	0.0	0.0	0.40
WNW	0.08	0.03	0.04	0.0	0.0	0.0	0.15
NW	0.11	0.10	0.07	0.0	0.0	0.0	0.28
NNW	0.07	0.05	0.01	0.0	0.0	0.0	0.13
SUBTOTAL	1.97	2.44	1.17	0.11	0.0	0.0	5.69

CALM = 0.01

452 STABILITY CLASS C OCCURRENCES OUT OF TOTAL 8069 VALID TEMPERATURE DIFFERENCE READINGS

419 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF TOTAL 452 STABILITY CLASS C OCCURRENCES

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
TEMPERATURE INSTRUMENTS 33 AND 130 FEET ABOVE GROUND(OFFSITE)
WIND INSTRUMENTS 33 FEET ABOVE GROUND

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND WIND SPEED
FOR DIFFERENT STABILITY CLASSES

STABILITY CLASS D
-1.5< DELTA-T<=-0.5 DEG. C/100M

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND DIRECTION	WIND SPEED(MPH) 0.6=3.4	3.5=7.4	7.5=12.4	12.5=18.4	18.5=24.4	>=24.5	TOTAL
N	0.96	1.09	0.51	0.03	0.0	0.0	2.59
NNE	1.25	0.93	0.41	0.07	0.0	0.0	2.71
NE	1.67	1.50	0.29	0.07	0.0	0.0	3.73
ENE	0.69	0.26	0.0	0.0	0.0	0.0	0.95
E	0.21	0.16	0.0	0.0	0.0	0.0	0.37
ESE	0.12	0.07	0.04	0.0	0.0	0.0	0.23
SE	0.16	0.23	0.11	0.0	0.0	0.0	0.50
SSE	0.12	0.22	0.19	0.04	0.01	0.0	0.58
S	0.43	0.55	0.43	0.08	0.01	0.0	1.50
SSW	0.60	1.03	0.71	0.08	0.0	0.0	2.42
SW	0.54	1.00	0.48	0.04	0.0	0.0	2.06
WSW	0.62	0.73	0.32	0.07	0.07	0.0	1.81
W	0.65	0.23	0.45	0.19	0.0	0.0	1.58
WNW	0.29	0.27	0.23	0.04	0.0	0.0	0.83
NW	0.38	0.44	0.25	0.0	0.0	0.0	1.07
NNW	0.25	0.33	0.30	0.01	0.0	0.0	0.89
SUBTOTAL	9.14	9.15	4.72	0.72	0.09	0.0	23.82

CALM = 0.12

1940 STABILITY CLASS D OCCURRENCES OUT OF TOTAL 8069 VALID TEMPERATURE DIFFERENCE READINGS

1744 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF TOTAL 1940 STABILITY CLASS D OCCURRENCES

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
TEMPERATURE INSTRUMENTS 33 AND 130 FEET ABOVE GROUND(OFFSITE)
WIND INSTRUMENTS 33 FEET ABOVE GROUND

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND WIND SPEED
FOR DIFFERENT STABILITY CLASSES

STABILITY CLASS E
-0.5< DELTA-T<= 1.5 DEG. C/100M

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND DIRECTION	WIND SPEED(MPH) 0.6=3.4	3.5=7.4	7.5=12.4	12.5=18.4	18.5=24.4	>=24.5	TOTAL
N	0.89	0.63	0.22	0.06	0.0	0.0	1.82
NNE	1.57	0.84	0.25	0.03	0.0	0.0	2.69
NE	4.33	1.31	0.34	0.03	0.0	0.0	6.01
ENE	1.68	0.25	0.04	0.0	0.0	0.0	1.97
E	0.71	0.18	0.03	0.0	0.0	0.0	0.92
ESE	0.32	0.23	0.04	0.0	0.0	0.0	0.59
SE	0.62	0.49	0.19	0.03	0.0	0.01	1.34
SSE	0.51	0.62	0.30	0.29	0.07	0.01	1.80
S	1.64	0.99	0.96	0.30	0.01	0.0	3.90
SSW	1.14	1.58	0.78	0.22	0.0	0.0	3.72
SW	1.37	1.54	0.59	0.08	0.01	0.0	3.59
WSW	0.85	0.70	0.34	0.10	0.04	0.0	2.03
W	0.69	0.65	0.43	0.14	0.0	0.0	1.91
WNW	0.47	0.43	0.15	0.01	0.0	0.0	1.06
NW	0.27	0.23	0.10	0.0	0.0	0.0	0.60
NNW	0.37	0.32	0.11	0.0	0.0	0.0	0.80
SUBTOTAL	17.43	10.99	4.87	1.31	0.13	0.02	34.75

CALM = 1.31

2914 STABILITY CLASS E OCCURRENCES OUT OF TOTAL 8069 VALID TEMPERATURE DIFFERENCE READINGS

2624 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF TOTAL 2914 STABILITY CLASS E OCCURRENCES

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
TEMPERATURE INSTRUMENTS 33 AND 130 FEET ABOVE GROUND(OFFSITE)
WIND INSTRUMENTS 33 FEET ABOVE GROUND

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND WIND SPEED
FOR DIFFERENT STABILITY CLASSES

STABILITY CLASS F
1.5< DELTA-T<= 4.0 DEG. C/100M

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND DIRECTION	WIND SPEED(MPH) 0.6=3.4	3.5=7.4	7.5=12.4	12.5=18.4	18.5=24.4	>=24.5	TOTAL
N	0.27	0.05	0.0	0.01	0.0	0.0	0.33
NNE	0.58	0.04	0.0	0.0	0.0	0.0	0.62
NE	2.08	0.10	0.0	0.0	0.0	0.0	2.18
ENE	1.22	0.05	0.0	0.0	0.0	0.0	1.27
E	0.69	0.05	0.01	0.0	0.0	0.0	0.75
ESE	0.27	0.08	0.0	0.0	0.0	0.0	0.35
SE	0.30	0.03	0.01	0.0	0.0	0.0	0.34
SSE	0.43	0.08	0.0	0.01	0.0	0.0	0.52
S	1.17	0.14	0.01	0.0	0.0	0.0	1.32
SSW	1.46	0.45	0.03	0.04	0.0	0.0	1.98
SW	1.15	0.32	0.14	0.0	0.0	0.0	1.61
WSW	0.47	0.21	0.03	0.0	0.0	0.0	0.71
W	0.41	0.08	0.0	0.0	0.0	0.0	0.49
WNW	0.18	0.01	0.0	0.0	0.0	0.0	0.19
NW	0.18	0.0	0.0	0.0	0.0	0.0	0.18
NNW	0.16	0.0	0.0	0.0	0.0	0.0	0.16
SUBTOTAL	11.02	1.69	0.23	0.06	0.0	0.0	13.00

CALM = 2.56

1260 STABILITY CLASS F OCCURRENCES OUT OF TOTAL 8069 VALID TEMPERATURE DIFFERENCE READINGS

1134 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF TOTAL 1260 STABILITY CLASS F OCCURRENCES

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
TEMPERATURE INSTRUMENTS 33 AND 130 FEET ABOVE GROUND(OFFSITE)
WIND INSTRUMENTS 33 FEET ABOVE GROUND

JOINT PERCENTAGE FREQUENCIES OF WIND DIRECTION AND WIND SPEED
FOR DIFFERENT STABILITY CLASSES

STABILITY CLASS G
DELTA T > 4.0 DEG. C/100M

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND DIRECTION	WIND SPEED(MPH) 0.6=3.4	3.5=7.4	7.5=12.4	12.5=18.4	18.5=24.4	>=24.5	TOTAL
N	0.08	0.0	0.0	0.0	0.0	0.0	0.08
NNE	0.29	0.0	0.0	0.0	0.0	0.0	0.29
NE	0.73	0.03	0.0	0.0	0.0	0.0	0.76
ENE	0.36	0.0	0.0	0.0	0.0	0.0	0.38
E	0.44	0.0	0.0	0.0	0.0	0.0	0.44
ESE	0.18	0.01	0.0	0.0	0.0	0.0	0.19
SE	0.34	0.01	0.0	0.0	0.0	0.0	0.35
SSE	0.25	0.03	0.0	0.0	0.0	0.0	0.28
S	0.66	0.04	0.0	0.0	0.0	0.0	0.70
SSW	0.59	0.11	0.01	0.0	0.0	0.0	0.71
SW	0.80	0.07	0.0	0.0	0.0	0.0	0.87
WSW	0.32	0.01	0.0	0.0	0.0	0.0	0.33
W	0.21	0.0	0.0	0.0	0.0	0.0	0.21
WNW	0.08	0.0	0.0	0.0	0.0	0.0	0.08
NW	0.05	0.01	0.0	0.0	0.0	0.0	0.06
NNW	0.01	0.0	0.0	0.0	0.0	0.0	0.01
SUBTOTAL	5.41	0.32	0.01	0.0	0.0	0.0	5.74

CALM = 1.97

649 STABILITY CLASS G OCCURRENCES OUT OF TOTAL 8069 VALID TEMPERATURE DIFFERENCE READINGS

562 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF TOTAL 649 STABILITY CLASS G OCCURRENCES

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
TEMPERATURE INSTRUMENTS 33 AND 130 FEET ABOVE GROUND(OFFSITE)
WIND INSTRUMENTS 33 FEET ABOVE GROUND

PERCENT OCCURRENCE OF WIND SPEED
FOR ALL WIND DIRECTIONS

BELLEFONTE ONSITE METEOROLOGICAL FACILITY*

NOV 1, 72 - OCT 31, 73

WIND DIRECTION	WIND SPEED(MPH) 0.6-3.4	3.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	TOTAL
N	2.88	2.45	1.04	0.12	0.0	0.0	6.49
NNE	4.35	3.06	0.86	0.14	0.0	0.0	8.41
NE	10.76	4.63	0.94	0.09	0.0	0.0	16.44
ENE	4.38	0.73	0.04	0.0	0.0	0.0	5.15
E	2.16	0.44	0.04	0.0	0.0	0.0	2.64
ESE	1.01	0.51	0.10	0.0	0.0	0.0	1.62
SE	1.51	1.18	0.36	0.03	0.0	0.01	3.09
SSE	1.43	1.23	0.55	0.35	0.08	0.01	3.65
S	4.03	2.35	1.59	0.39	0.03	0.0	8.39
SSW	3.94	3.74	2.03	0.42	0.0	0.0	10.13
SW	4.01	3.33	1.68	0.14	0.01	0.0	9.17
WSW	2.52	2.18	1.04	0.23	0.13	0.0	6.10
W	2.13	1.30	1.14	0.46	0.0	0.0	5.03
WNW	1.17	0.83	0.53	0.06	0.0	0.0	2.59
NW	1.12	0.92	0.50	0.0	0.0	0.0	2.54
NNW	0.98	0.74	0.49	0.01	0.0	0.0	2.22
SUBTOTAL	48.40	29.62	12.93	2.44	0.25	0.02	93.66

CALM = 6.34

7789 VALID WIND DIRECTION - WIND SPEED READINGS OUT OF 8760 TOTAL HOURS = 88.92 PERCENT

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF NET VALID READINGS

* METEOROLOGICAL FACILITY LOCATED ON BELLEFONTE SITE
WIND INSTRUMENTS 33 FEET ABOVE GROUND