



PECO
ENERGY

Limerick Generating Station



PECO Energy Company

LIMERICK GENERATING STATION

DOCKET NO. 50-352 (Unit 1)
DOCKET NO. 50-353 (Unit 2)

Tower No. 1
Joint Frequency Distributions of
Wind Speed and Direction by
Atmospheric Stability Class
1994
Report No. 10

Submitted to
The United States Regulatory Commission
Pursuant to
Facility Operating License NPF-39 (Unit 1)
and NPF-85 (Unit 2)

Preparation Directed by:
D. R. Helwig, Vice President
Limerick Generating Station

R.W. Boyce Plant Manager

LGS - MIXED-MODE RELEASE TURBINE ENCLOSURE (NORTH VENT) 1994

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	(METERS)	X/Q (SEC/CUB.METER)	X/Q (SEC/CUB.METER)	X/Q (SEC/CUB.METER)	D/Q (PER SQ.METER)
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NO DECAY

2.260 DAY DECAY

8.000 DAY DECAY

UNDEPLETED

UNDEPLETED

DEPLETED

N	SITE BOUNDARY	S	.81	1311.	2.107E-07	2.100E-07	1.883E-07	1.511E-09
N	SITE BOUNDARY	SSW	.49	793.	3.396E-07	3.389E-07	3.108E-07	1.771E-09
N	SITE BOUNDARY	SW	.61	975.	2.898E-07	2.891E-07	2.622E-07	1.844E-09
N	SITE BOUNDARY	WSW	.55	884.	3.998E-07	3.990E-07	3.636E-07	3.106E-09
N	SITE BOUNDARY	W	.57	914.	2.664E-07	2.659E-07	2.419E-07	2.105E-09
N	SITE BOUNDARY	WNW	.55	884.	1.498E-07	1.495E-07	1.366E-07	1.163E-09
N	SITE BOUNDARY	NW	.59	945.	1.533E-07	1.530E-07	1.387E-07	9.334E-10
N	SITE BOUNDARY	NNW	.68	1097.	1.940E-07	1.935E-07	1.746E-07	1.273E-09
N	SITE BOUNDARY	N	.63	1006.	3.358E-07	3.353E-07	3.034E-07	3.129E-09
N	SITE BOUNDARY	NNE	.55	884.	4.399E-07	4.391E-07	4.013E-07	4.410E-09
N	SITE BOUNDARY	NE	.53	853.	4.234E-07	4.224E-07	3.879E-07	3.479E-09
N	SITE BOUNDARY	ENE	.72	1158.	3.112E-07	3.103E-07	2.827E-07	2.852E-09
N	SITE BOUNDARY	E	.72	1158.	6.585E-07	6.568E-07	5.939E-07	5.365E-09
N	SITE BOUNDARY	ESE	.51	823.	1.583E-06	1.580E-06	1.446E-06	1.682E-08
N	SITE BOUNDARY	SE	.76	1219.	5.750E-07	5.737E-07	5.140E-07	6.334E-09
N	SITE BOUNDARY	SSE	.78	1250.	2.820E-07	2.812E-07	2.520E-07	2.611E-09
N	RAILROAD TRACKS	S	.19	300.	2.291E-06	2.289E-06	2.193E-06	1.095E-08
N	RAILROAD TRACKS	SSW	.14	225.	2.952E-06	2.951E-06	2.851E-06	9.836E-09
N	RAILROAD TRACKS	SW	.14	225.	3.313E-06	3.311E-06	3.199E-06	1.415E-08
N	RAILROAD TRACKS	WSW	.14	225.	3.875E-06	3.873E-06	3.743E-06	2.133E-08
N	RAILROAD TRACKS	W	.14	225.	2.761E-06	2.759E-06	2.666E-06	1.523E-08
N	RAILROAD TRACKS	WNW	.21	345.	6.903E-07	6.897E-07	6.574E-07	4.062E-09
N	RAILROAD TRACKS	NW	.28	450.	4.909E-07	4.904E-07	4.623E-07	2.802E-09
N	INFORMATION CTR	ESE	.55	884.	1.421E-06	1.419E-06	1.293E-06	1.509E-08
N	FRICKS LOCK	WSW	.28	450.	1.125E-06	1.124E-06	1.060E-06	8.150E-09

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 61.00
 DIAMETER (METERS) 5.33
 EXIT VELOCITY (M/SEC) 7.68

REP. WIND HEIGHT (METERS) 50.6
 BUILDING HEIGHT (METERS) 61.0
 BLDG.MIN.CRS.SEC.AREA (SQ.METERS) 4596.0
 HEAT EMISSION RATE (CAL/SEC) .0

AT THE RELEASE HEIGHT:

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 1.536
 MIXED BETWEEN 1.536 AND 7.680
 GROUND LEVEL ABOVE 7.680

AT THE MEASURED WIND HEIGHT (9.1 METERS):

VENT RELEASE MODE WIND SPEED (METERS/SEC)

STABLE CONDITIONS

ELEVATED LESS THAN .651
 MIXED BETWEEN .651 AND 3.257
 GROUND LEVEL ABOVE 3.257

WIND SPEED (METERS/SEC)
 UNSTABLE/NEUTRAL CONDITIONS
 LESS THAN 1.000
 BETWEEN 1.000 AND 5.001
 ABOVE 5.001

LGS - MIXED-MODE RELEASE REACTOR ENCLOSURE (SOUTH VENT) 1994

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE		X/Q	X/Q	X/Q	D/Q
			(MILES)	(METERS)	(SEC/CUB.METER)	(SEC/CUB.METER)	(SEC/CUB.METER)	(PER SQ.METER)
NO DECAY								
2.260 DAY DECAY								
8.000 DAY DECAY								
					UNDEPLETED	UNDEPLETED	DEPLETED	
S	SITE BOUNDARY	S	.81	1311.	2.419E-07	2.410E-07	2.168E-07	1.580E-09
S	SITE BOUNDARY	SSW	.49	793.	3.852E-07	3.844E-07	3.528E-07	1.920E-09
S	SITE BOUNDARY	SW	.61	975.	3.261E-07	3.253E-07	2.955E-07	1.948E-09
S	SITE BOUNDARY	WSW	.55	884.	4.508E-07	4.500E-07	4.107E-07	3.299E-09
S	SITE BOUNDARY	W	.57	914.	2.994E-07	2.988E-07	2.721E-07	2.228E-09
S	SITE BOUNDARY	WNW	.55	884.	1.739E-07	1.735E-07	1.588E-07	1.246E-09
S	SITE BOUNDARY	NW	.59	945.	1.759E-07	1.755E-07	1.592E-07	1.029E-09
S	SITE BOUNDARY	NNW	.68	1097.	2.284E-07	2.279E-07	2.063E-07	1.625E-09
S	SITE BOUNDARY	N	.63	1006.	3.858E-07	3.851E-07	3.491E-07	3.346E-09
S	SITE BOUNDARY	NNE	.55	884.	5.059E-07	5.050E-07	4.619E-07	5.188E-09
S	SITE BOUNDARY	NE	.53	853.	4.875E-07	4.865E-07	4.471E-07	4.138E-09
S	SITE BOUNDARY	ENE	.72	1158.	3.833E-07	3.823E-07	3.512E-07	2.967E-09
S	SITE BOUNDARY	E	.72	1158.	7.844E-07	7.823E-07	7.114E-07	5.642E-09
S	SITE BOUNDARY	ESE	.51	823.	1.769E-06	1.766E-06	1.617E-06	1.762E-08
S	SITE BOUNDARY	SE	.76	1219.	6.460E-07	6.445E-07	5.782E-07	6.610E-09
S	SITE BOUNDARY	SSE	.78	1250.	3.193E-07	3.184E-07	2.859E-07	2.730E-09
S	RAILROAD TRACKS	S	.19	300.	2.564E-06	2.561E-06	2.454E-06	1.187E-08
S	RAILROAD TRACKS	SSW	.14	225.	3.334E-06	3.332E-06	3.220E-06	1.090E-08
S	RAILROAD TRACKS	SW	.14	225.	3.677E-06	3.675E-06	3.551E-06	1.526E-08
S	RAILROAD TRACKS	WSW	.14	225.	4.310E-06	4.308E-06	4.162E-06	2.313E-08
S	RAILROAD TRACKS	W	.14	225.	3.068E-06	3.067E-06	2.963E-06	1.647E-08
S	RAILROAD TRACKS	WNW	.21	345.	7.862E-07	7.856E-07	7.488E-07	4.466E-09
S	RAILROAD TRACKS	NW	.28	450.	5.589E-07	5.584E-07	5.263E-07	3.127E-09
S	INFORMATION CTR	ESE	.55	884.	1.589E-06	1.587E-06	1.447E-06	1.579E-08
S	FRICKS LOCK	WSW	.28	450.	1.254E-06	1.253E-06	1.182E-06	8.777E-09

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 61.00
 DIAMETER (METERS) 3.44
 EXIT VELOCITY (M/SEC) 7.32

REP. WIND HEIGHT (METERS) 50.6
 BUILDING HEIGHT (METERS) 61.0
 BLDG.MIN.CRS.SEC.AREA (SQ.METERS) 4596.0
 HEAT EMISSION RATE (CAL/SEC) .0

AT THE RELEASE HEIGHT:

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 1.464
 MIXED BETWEEN 1.464 AND 7.320
 GROUND LEVEL ABOVE 7.320

AT THE MEASURED WIND HEIGHT (9.1 METERS):

VENT RELEASE MODE WIND SPEED (METERS/SEC)

STABLE CONDITIONS

ELEVATED LESS THAN .621
 MIXED BETWEEN .621 AND 3.104
 GROUND LEVEL ABOVE 3.104

WIND SPEED (METERS/SEC)

UNSTABLE/NEUTRAL CONDITIONS

LESS THAN .953
 BETWEEN .953 AND 4.767
 ABOVE 4.767

1994 ANNUAL
JOINT FREQUENCY DISTRIBUTION (JFDS)
30-FOOT LEVEL

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS A
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	0	0	0	0	0	1	0	0	1	0	5	1	2	3	2	2	17
3.51- 7.50	17	11	1	4	6	3	2	6	13	33	50	62	53	41	39	21	362
7.51-12.50	6	1	0	2	6	6	1	1	16	28	14	28	38	59	45	12	263
12.51-18.50	0	0	0	0	0	0	1	1	2	0	0	3	9	38	13	4	71
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	23	12	1	6	12	10	4	8	32	61	69	94	102	141	105	39	719

STABILITY CLASS B
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	3	1	1	4	2	5	1	2	3	3	4	8	4	7	4	0	52
3.51- 7.50	14	6	11	6	4	3	0	2	9	18	29	21	21	41	17	11	213
7.51-12.50	5	0	0	2	1	0	1	1	8	13	5	5	18	34	33	13	139
12.51-18.50	0	0	0	0	0	0	0	0	1	1	0	0	5	28	20	5	60
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	22	7	12	12	7	8	2	5	21	35	38	34	48	115	78	29	473

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS C
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	2	2	0	6	3	4	0	3	3	7	13	9	12	10	4	2	80
3.51- 7.50	17	6	14	12	9	9	0	5	18	21	19	20	26	32	17	16	241
7.51-12.50	6	0	2	1	3	1	0	2	12	19	2	6	10	34	36	12	146
12.51-18.50	0	0	0	0	0	0	0	0	1	1	0	1	10	30	15	2	60
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	25	8	16	19	15	14	0	10	34	48	34	36	58	108	73	32	530

STABILITY CLASS D
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
.51- 3.50	36	41	59	54	36	25	34	42	43	38	45	42	69	47	39	34	684
3.51- 7.50	85	80	103	133	63	17	36	71	103	85	46	44	88	152	95	74	1275
7.51-12.50	31	12	26	61	33	14	12	15	45	32	14	12	55	158	153	66	739
12.51-18.50	4	0	7	17	8	1	0	0	1	4	1	0	24	96	55	18	236
18.51-24.00	0	0	1	0	1	0	0	0	0	1	0	0	0	2	1	4	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL	156	133	196	265	141	57	82	128	192	160	106	98	236	455	343	197	2946

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS E
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	49	49	55	46	32	21	34	37	49	75	103	120	126	114	68	57	1035
3.51- 7.50	24	28	23	28	25	19	37	46	77	68	36	45	107	126	84	38	811
7.51-12.50	2	2	4	2	11	2	4	5	6	4	5	10	21	46	11	5	140
12.51-18.50	0	0	4	0	0	0	0	0	1	1	0	0	1	5	2	0	14
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	75	79	86	76	68	42	75	88	133	148	144	175	255	291	165	100	2000

STABILITY CLASS F
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	53	37	32	45	36	18	13	21	21	37	42	49	103	73	82	35	697
3.51- 7.50	1	7	1	6	3	4	0	8	5	11	8	2	13	30	8	3	110
7.51-12.50	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	54	44	33	51	39	22	13	30	26	48	52	52	116	103	90	38	811

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	56	32	42	24	18	9	7	7	7	8	34	28	99	122	85	56	634
3.51- 7.50	0	1	0	1	0	1	0	2	0	0	1	1	8	15	1	0	31
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	56	33	42	25	18	10	7	9	7	8	35	29	108	137	86	56	666

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 30.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
.51- 3.50	199	162	189	179	127	83	89	112	127	168	246	257	415	376	284	186	3199
3.51- 7.50	158	139	153	190	110	56	75	140	225	236	189	195	316	437	261	163	3043
7.51-12.50	50	15	32	68	54	23	18	24	87	96	42	62	143	331	278	108	1431
12.51-18.50	4	0	11	17	8	1	1	2	6	7	1	4	49	197	105	29	442
18.51-24.00	0	0	1	0	1	0	0	0	0	1	0	0	0	8	17	4	27
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
TOTAL	411	316	386	454	300	163	183	278	445	508	478	518	923	1350	940	491	8145

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .50 MPH

TOTAL NUMBER OF OBSERVATIONS: 8758

TOTAL NUMBER OF VALID OBSERVATIONS: 8145

TOTAL NUMBER OF MISSING OBSERVATIONS: 613

PERCENT DATA RECOVERY FOR THIS PERIOD: 93.0 %

MEAN WIND SPEED FOR THIS PERIOD: 5.4 MPH

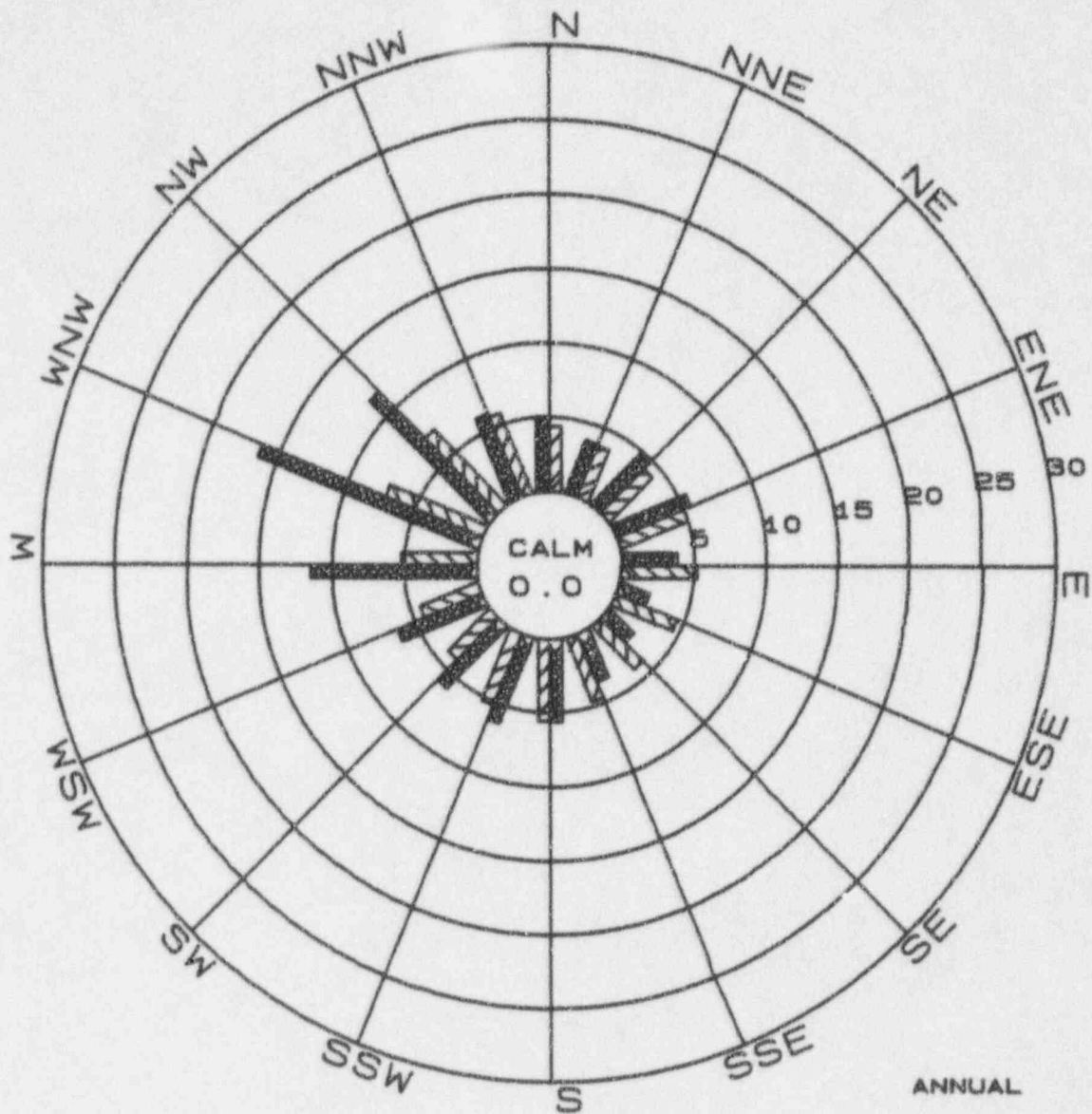
TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES



A	B	C	D	E	F	G
8.83	5.81	6.51	36.17	24.55	9.96	8.18

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	23	12	1	6	12	10	4	8	32	61	69	94	102	141	105	39	0
B	22	7	12	12	7	8	2	5	21	35	38	34	48	115	78	29	0
C	25	8	16	19	15	14	0	10	34	48	34	36	58	108	73	32	0
D	156	133	196	265	141	57	82	128	192	160	106	98	236	455	343	197	1
E	75	79	86	76	68	42	75	88	133	148	144	175	255	291	165	100	0
F	54	44	33	51	39	22	13	30	26	48	52	52	116	103	90	38	0
G	56	33	42	25	18	10	7	9	7	8	35	29	108	137	86	56	0
TOTAL	411	316	386	454	300	163	183	278	445	508	478	518	923	1350	940	491	1



ANNUAL
8449 OBS.

 WIND DIRECTION FREQUENCY (PERCENT)
 MEAN WIND SPEED (MI/HR)

Limerick Generating Station
30 Ft Level

1994 ANNUAL
JOINT FREQUENCY DISTRIBUTION (JFDS)
175-FOOT LEVEL

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 175.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	2	0	0	0	0	1	0	0	0	1	1	1	1	3	1	0	11
3.51- 7.50	8	9	1	2	2	0	3	3	9	13	20	25	20	16	12	11	154
7.51-12.50	19	9	1	4	5	10	3	1	4	30	33	45	36	44	38	20	302
12.51-18.50	2	1	0	0	0	1	3	1	10	27	10	23	33	29	23	3	166
18.51-24.00	0	0	0	0	0	0	0	1	1	1	5	3	11	26	4	2	54
>24.00	2	0	0	0	0	0	0	0	0	0	0	2	3	3	2	0	12
TOTAL	33	19	2	6	7	12	9	6	24	72	69	99	104	121	80	38	699

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 175.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	1	4	0	1	0	0	2	1	1	1	0	2	2	4	3	0	22
3.51- 7.50	9	8	7	8	5	4	4	4	8	10	22	11	14	21	8	2	145
7.51-12.50	12	2	5	3	0	3	1	1	6	13	10	8	15	27	22	12	140
12.51-18.50	2	0	0	0	0	0	0	0	5	6	5	8	13	17	25	8	89
18.51-24.00	0	0	0	0	0	0	0	0	0	2	2	1	7	21	11	3	47
>24.00	1	0	1	0	0	0	0	0	0	0	0	0	0	7	2	1	12
TOTAL	25	14	13	12	5	7	7	6	20	32	39	30	51	97	71	28	455

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS C
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .50 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 175.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	0	0	1	4	2	3	0	2	3	3	7	3	5	8	5	1	47
3.51- 7.50	4	10	10	12	4	5	5	2	10	9	23	9	14	15	10	9	151
7.51-12.50	15	5	6	2	10	4	1	6	11	17	12	15	12	18	21	15	170
12.51-18.50	2	1	0	2	0	0	1	1	6	13	3	7	9	24	24	10	103
18.51-24.00	0	0	0	0	0	0	0	0	1	1	2	1	9	13	10	1	38
>24.00	0	0	0	0	0	0	0	0	0	0	0	2	1	6	1	0	10
TOTAL	21	16	17	20	16	12	7	11	31	43	47	37	50	84	71	36	519

STABILITY CLASS D
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .50 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 175.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	19	31	22	26	28	24	18	20	22	14	22	18	17	21	16	14	332
3.51- 7.50	56	80	73	82	55	23	30	35	62	47	30	29	44	72	50	32	800
7.51-12.50	65	74	67	62	63	32	24	58	100	76	43	35	40	103	76	74	992
12.51-18.50	28	13	18	11	11	14	3	8	39	29	13	17	56	83	103	65	511
18.51-24.00	3	1	8	10	1	2	0	0	2	6	6	3	24	50	39	13	168
>24.00	2	1	1	2	0	1	0	0	0	3	1	1	6	10	4	7	39
TOTAL	173	200	189	193	158	96	75	121	225	175	115	103	187	339	288	205	2842

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS E
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .50 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 175.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	15	11	10	22	15	13	14	14	19	14	15	21	25	23	18	17	266
3.51- 7.50	30	20	34	27	35	20	18	27	57	63	72	76	73	116	50	29	747
7.51-12.50	28	25	22	14	23	20	21	32	52	73	63	45	73	121	81	54	747
12.51-18.50	4	4	5	1	6	5	2	2	15	13	10	12	33	45	17	5	179
18.51-24.00	0	0	5	0	0	0	0	0	1	1	0	2	0	6	2	0	17
>24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
TOTAL	77	60	76	64	79	58	55	75	144	165	160	156	204	311	168	105	1957

STABILITY CLASS F
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .50 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 175.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	8	5	7	8	13	15	12	9	15	15	10	19	15	23	15	11	200
3.51- 7.50	14	5	8	8	6	6	5	23	22	19	30	38	49	90	35	20	378
7.51-12.50	1	12	6	1	11	3	2	0	6	17	10	17	29	72	17	8	212
12.51-18.50	0	0	0	0	2	2	0	0	2	1	2	0	0	1	1	0	11
18.51-24.00	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	23	22	21	17	32	26	19	33	45	52	53	75	93	163	68	39	804

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS G
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 175.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	18	13	7	9	8	9	9	10	12	8	15	20	22	30	25	16	231
3.51- 7.50	9	4	2	1	4	10	5	5	8	21	20	19	40	84	65	32	329
7.51-12.50	5	2	0	0	0	1	0	1	3	3	5	6	9	33	16	4	90
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	32	19	9	10	12	20	14	16	23	32	40	46	72	150	106	52	653

STABILITY CLASS ALL
STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 175.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	63	64	47	70	66	65	55	56	72	56	70	84	87	112	83	59	1109
3.51- 7.50	130	136	135	140	111	68	70	99	176	182	217	207	254	414	230	135	2704
7.51-12.50	145	129	107	86	112	73	52	99	182	229	176	171	214	420	271	187	2653
12.51-18.50	38	19	23	14	19	22	9	12	77	89	43	67	145	200	193	91	1061
18.51-24.00	3	1	13	10	1	2	0	2	5	11	16	12	51	116	66	19	328
>24.00	5	1	2	2	0	1	0	0	0	4	1	5	10	26	9	8	74
TOTAL	384	350	327	322	309	231	186	268	512	571	523	546	761	1288	852	499	7929

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 175 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 171.0 AND 26.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .50 MPH

TOTAL NUMBER OF OBSERVATIONS: 8758

TOTAL NUMBER OF VALID OBSERVATIONS: 7929

TOTAL NUMBER OF MISSING OBSERVATIONS: 829

PERCENT DATA RECOVERY FOR THIS PERIOD: 90.5 %

MEAN WIND SPEED FOR THIS PERIOD: 8.6 MPH

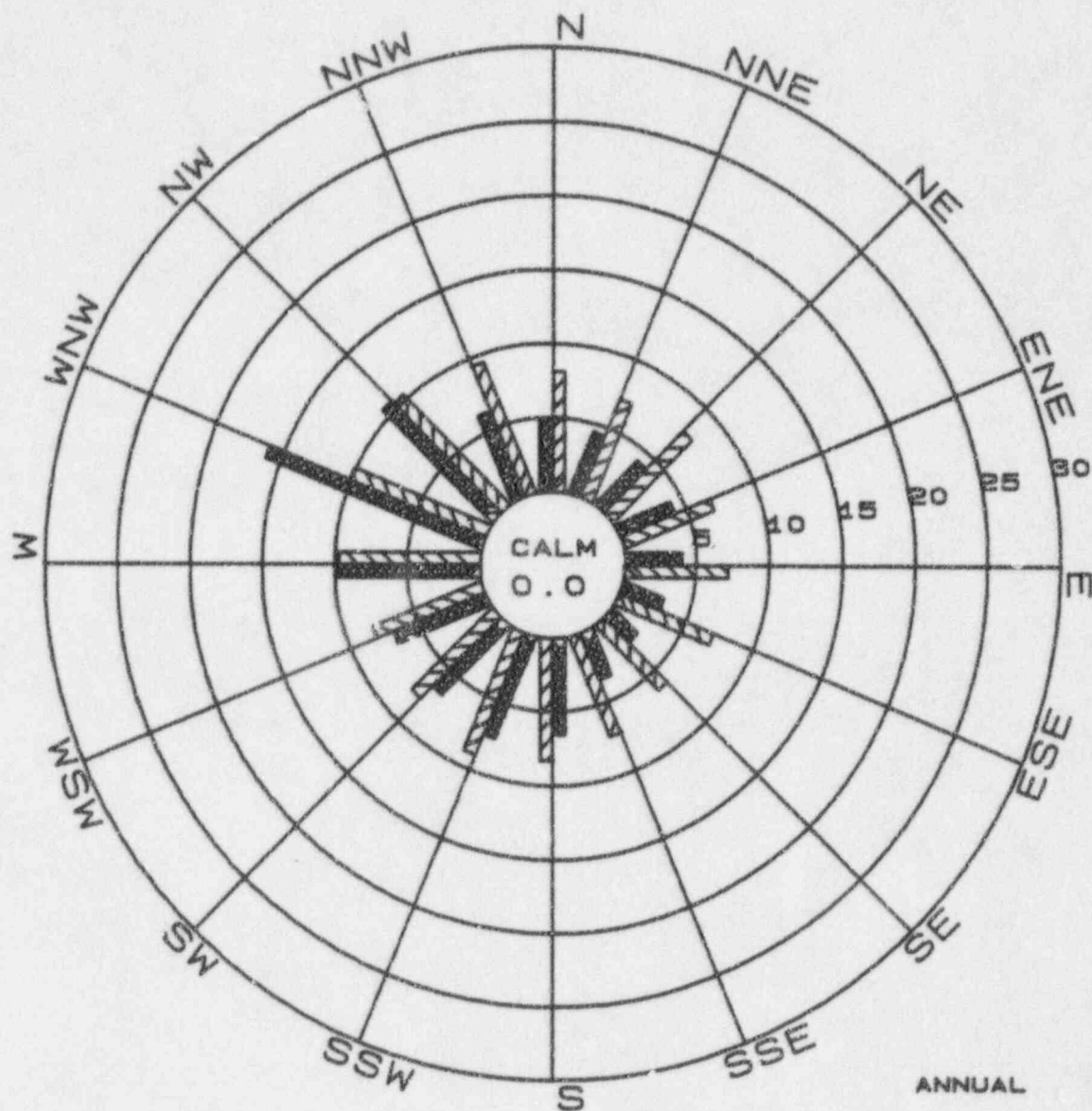
TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
8.82	5.74	6.55	35.84	24.68	10.14	8.24

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	33	19	2	6	7	12	9	6	24	72	69	99	104	121	80	36	0
B	25	14	13	12	5	7	7	6	20	32	39	30	51	97	71	26	0
C	21	16	17	20	16	12	7	11	31	43	47	37	50	84	71	36	0
D	173	200	189	193	158	96	75	121	225	175	115	103	187	339	288	205	0
E	77	60	76	64	79	58	55	75	144	165	160	156	204	311	168	105	0
F	23	22	21	17	32	26	19	33	45	52	53	75	93	186	68	39	0
G	32	19	9	10	12	20	14	16	23	32	40	46	72	150	106	52	0
TOTAL	384	350	327	322	309	231	186	268	512	571	523	546	761	1288	852	499	0



ANNUAL
8234 OBS.

WIND DIRECTION FREQUENCY (PERCENT)
MEAN WIND SPEED (MI/HR)

Limerick Generating Station
175 Ft Level

1994 ANNUAL
JOINT FREQUENCY DISTRIBUTION (JFDS)
270-FOOT LEVEL

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 270 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS A																	
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET																	
WIND MEASURED AT: 270.0 FEET																	
WIND THRESHOLD AT: .50 MPH																	
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET																	
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.51 - 3.50	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	3
3.51 - 7.50	1	0	0	0	1	1	0	2	0	1	6	12	6	5	8	1	44
7.51 - 12.50	0	0	0	0	0	1	0	0	3	12	3	1	4	2	1	0	27
12.51 - 18.50	0	0	0	0	0	0	0	0	0	2	0	0	2	2	0	0	6
18.51 - 24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	1	2	0	3	3	15	11	13	12	9	9	1	80

STABILITY CLASS B																	
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET																	
WIND MEASURED AT: 270.0 FEET																	
WIND THRESHOLD AT: .50 MPH																	
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET																	
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
.51- 3.50	1	1	0	0	0	0	2	0	0	4	6	8	13	1	4	2	42
3.51- 7.50	4	5	0	0	2	4	0	1	1	7	12	17	21	18	11	11	114
7.51-12.50	0	1	0	0	0	2	1	0	7	6	8	9	9	15	9	4	71
12.51-18.50	0	0	0	0	0	0	0	0	1	1	2	1	0	13	8	0	26
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	7	0	0	2	6	3	1	9	18	28	35	43	51	32	17	258

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 270 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS C
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 270.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	1	2	0	0	0	0	0	1	1	1	1	3	1	5	1	1	18
3.51- 7.50	10	7	2	2	3	1	1	3	5	8	13	10	11	13	5	9	103
7.51-12.50	16	4	2	1	3	3	1	1	4	11	13	19	13	33	31	14	169
12.51-18.50	5	0	0	0	0	0	2	0	2	7	8	7	16	20	35	8	110
18.51-24.00	1	0	0	0	0	0	0	0	1	3	1	5	7	23	15	3	59
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	3	12	10	0	26
TOTAL	33	13	4	3	6	4	4	5	13	30	36	45	51	106	97	35	485

STABILITY CLASS D
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 270.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
.51- 3.50	11	21	16	17	17	20	22	13	10	12	26	12	10	18	10	9	244
3.51- 7.50	43	63	89	74	55	32	21	32	51	52	64	36	45	68	57	34	816
7.51-12.50	85	62	72	118	69	23	8	21	83	122	68	50	69	108	105	76	1139
12.51-18.50	49	18	17	29	30	17	2	11	42	86	26	21	53	161	151	103	816
18.51-24.00	13	6	0	9	2	3	0	0	7	10	12	4	20	75	91	34	286
>24.00	6	1	4	5	1	2	0	0	0	0	2	2	9	55	44	6	137
TOTAL	207	171	198	252	174	97	53	77	193	282	198	125	206	485	458	262	3440

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 270 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS E
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET
WIND MEASURED AT: 270.0 FEET
WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
.51- 3.50	10	9	13	17	15	10	14	7	19	17	17	15	13	18	10	7	211
3.51- 7.50	27	19	24	41	23	19	22	22	32	70	73	77	74	63	53	33	672
7.51-12.50	40	23	34	28	20	17	14	26	72	103	103	68	97	161	113	59	978
12.51-18.50	31	13	14	5	15	22	11	10	31	41	31	12	38	104	85	48	511
18.51-24.00	4	4	0	0	2	0	1	0	2	4	9	3	11	15	12	0	67
>24.00	2	0	0	0	0	0	0	0	1	2	1	0	1	1	4	1	13
TOTAL	114	68	85	91	75	68	62	65	157	237	234	175	234	362	277	148	2454

STABILITY CLASS F
STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET
WIND MEASURED AT: 270.0 FEET
WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
.51- 3.50	9	9	10	5	6	9	7	11	13	11	5	18	6	10	9	6	144
3.51- 7.50	19	7	6	9	6	6	6	6	17	22	19	37	50	37	38	31	316
7.51-12.50	16	8	6	6	1	2	2	6	10	16	16	17	40	99	37	17	299
12.51-18.50	3	9	1	1	5	9	1	0	6	1	9	0	9	36	7	4	101
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2
TOTAL	47	33	23	21	18	26	16	24	46	50	49	73	105	182	91	58	864

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 270 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 270.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.51- 3.50	7	6	4	3	5	6	13	3	8	10	11	11	9	9	11	3	119
3.51- 7.50	8	6	6	2	4	7	2	4	4	8	23	24	45	47	32	29	251
7.51-12.50	9	3	0	1	0	0	0	1	3	5	8	12	9	51	17	5	124
12.51-18.50	0	1	0	0	0	0	0	0	0	0	1	0	1	9	6	0	18
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	24	16	10	6	9	13	15	8	15	23	43	47	64	117	66	37	513

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 270.0 FEET

WIND THRESHOLD AT: .50 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 270.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	6
.51- 3.50	39	47	43	42	43	45	56	35	51	51	60	59	39	61	41	26	738
3.51- 7.50	108	103	127	128	91	65	54	68	109	164	200	192	238	229	189	138	2203
7.51-12.50	171	105	114	154	96	50	25	58	173	265	226	195	255	475	322	183	2867
12.51-18.50	88	42	32	35	50	51	17	21	91	153	86	50	130	347	294	167	1654
18.51-24.00	18	10	0	9	4	3	1	0	11	20	24	13	40	128	126	37	444
>24.00	8	1	4	5	1	2	0	1	1	2	3	4	13	72	58	7	182
TOTAL	432	308	320	373	285	216	153	183	436	655	599	513	715	1312	1036	558	8094

PROGRAM: JFD VERSION: PC-1.2

Limerick Generating Station - JFD 270 FT LEVEL - January through December 1994

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/94 - 12/31/94

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 266.0 AND 26.0 FEET

WIND MEASURED AT: 270.0 FEET

WIND THRESHOLD AT: .50 MPH

TOTAL NUMBER OF OBSERVATIONS: 8758

TOTAL NUMBER OF VALID OBSERVATIONS: 8094

TOTAL NUMBER OF MISSING OBSERVATIONS: 664

PERCENT DATA RECOVERY FOR THIS PERIOD: 92.4 %

MEAN WIND SPEED FOR THIS PERIOD: 10.1 MPH

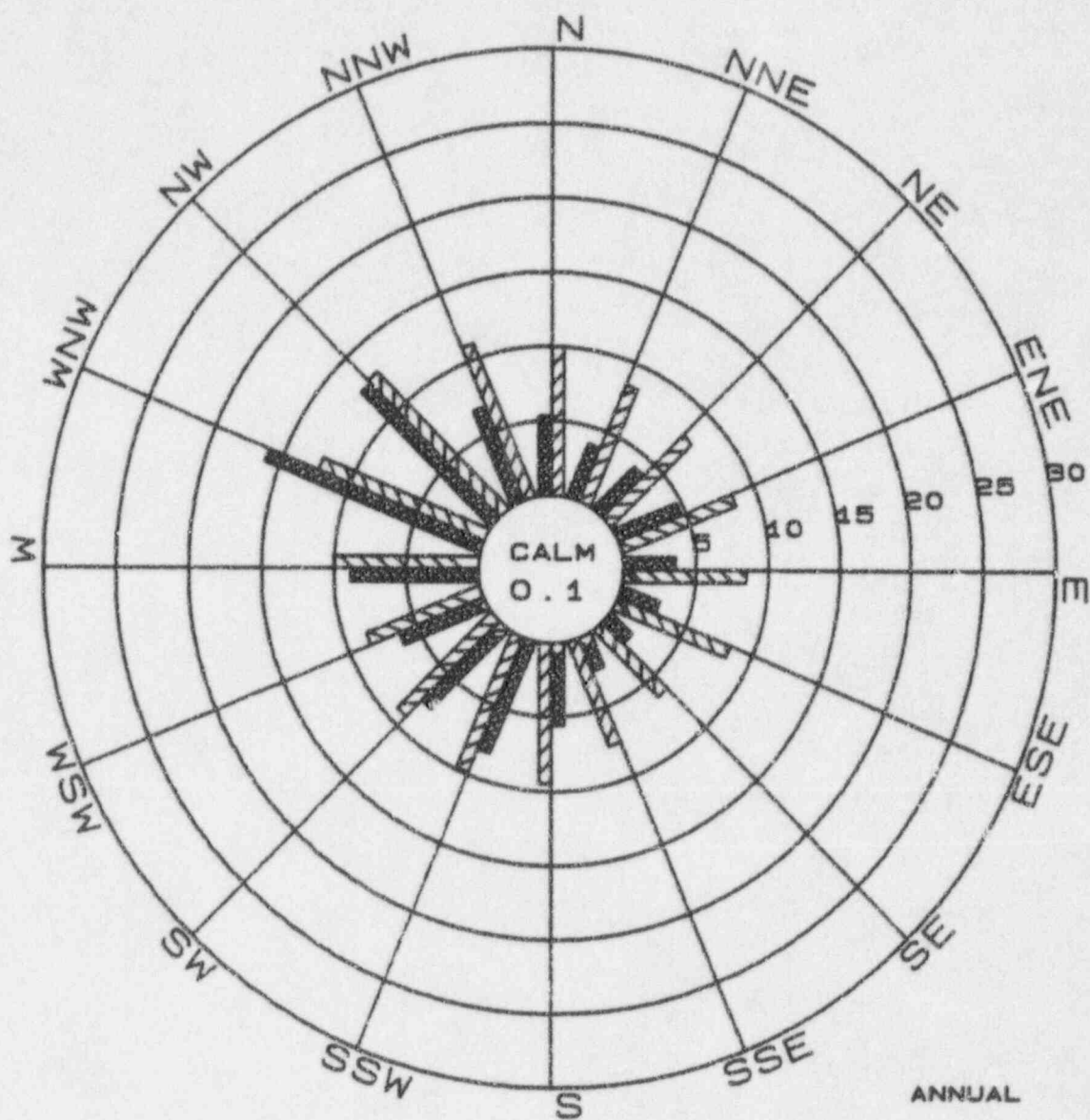
TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES



A	B	C	D	E	F	G
.99	3.19	5.99	42.50	30.32	10.67	6.34

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	0	0	0	1	2	0	3	3	15	11	13	12	9	9	1	0
B	6	7	0	0	2	6	3	1	9	18	28	35	43	51	32	17	0
C	33	13	4	3	6	4	4	5	13	30	36	45	51	106	97	35	0
D	207	171	198	252	174	97	53	77	193	282	198	125	206	485	458	262	2
E	114	68	85	91	75	68	62	65	157	237	234	175	234	362	277	148	2
F	47	33	23	21	18	26	16	24	46	50	49	73	105	182	91	58	2
G	24	16	10	6	9	13	15	8	15	23	43	47	64	117	66	37	0
TOTAL	432	308	320	373	285	216	153	183	436	655	599	513	715	1312	1030	558	6



ANNUAL
8397 OBS.

 WIND DIRECTION FREQUENCY (PERCENT)
 MEAN WIND SPEED (MI/HR)

Limerick Generating Station
270 Ft Level