

LIMERICK GENERATING STATION

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PHILADELPHIA ELECTRIC COMPANY

3933001622

LIMERICK GENERATING STATION

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DAVID R. HELWIG
VICE PRESIDENT
LIMERICK GENERATING STATION

PHILADELPHIA ELECTRIC COMPANY

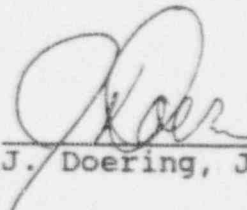
LIMERICK GENERATING STATION

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
1992
Report No. 8

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

 2/25/93
J. Doering, Jr. Plant Manager

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	1	0	0	0	0	0	2	2	4	8	3	2	1	0	0	0	23
3.51- 7.50	4	4	0	1	2	4	7	2	19	53	37	45	57	27	14	7	283
7.51-12.50	5	2	1	5	1	2	1	2	7	17	5	8	31	43	22	11	163
12.51-18.50	2	0	0	0	0	0	0	0	0	1	0	11	11	22	17	1	65
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12	6	1	6	3	6	10	6	30	79	45	66	100	92	55	19	536

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	1	0	0	1	0	0	0	4	2	7	3	2	7	2	1	0	30
3.51- 7.50	8	5	3	1	4	10	2	3	11	22	17	18	18	22	18	9	171
7.51-12.50	5	0	0	6	3	1	3	2	5	9	1	3	21	26	39	7	131
12.51-18.50	2	0	0	6	0	0	0	0	0	1	0	1	5	18	27	0	54
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	16	5	3	8	7	11	5	9	18	39	21	24	52	68	87	16	389

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	1	2	1	0	1	1	2	2	12	7	12	14	6	3	2	1	67
3.51- 7.50	13	7	2	9	17	7	9	8	17	24	23	16	25	18	24	17	236
7.51-12.50	4	0	3	7	12	1	0	3	9	11	0	2	12	32	26	12	134
12.51-18.50	1	0	0	1	2	1	0	0	0	1	1	0	9	14	19	1	50
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	1	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	9	6	17	32	10	11	13	38	43	36	32	55	68	75	32	496

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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																	3
.76- 3.50	16	21	32	37	39	36	34	36	53	95	86	71	65	38	21	19	699
3.51- 7.50	89	59	109	202	167	64	52	95	138	88	46	80	84	153	93	71	1590
7.51-12.50	27	8	8	35	118	20	15	30	32	33	9	16	81	218	131	73	854
12.51-18.50	1	0	11	4	12	1	3	12	3	0	0	4	33	98	64	16	262
18.51-24.00	0	0	0	5	0	0	0	0	0	0	0	0	5	11	8	0	29
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	133	88	160	283	336	121	104	173	226	216	141	171	268	518	317	179	3437

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY CLASS E
STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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																	27
.76- 3.50	16	17	29	35	40	38	42	53	88	158	166	156	142	52	30	18	1080
3.51- 7.50	29	54	34	70	55	50	34	36	123	87	45	58	112	169	63	36	1055
7.51-12.50	4	4	10	28	9	7	9	10	8	20	6	12	18	49	27	15	236
12.51-18.50	0	0	8	7	9	1	1	2	2	0	1	2	0	3	1	4	41
18.51-24.00	0	0	1	0	0	0	0	0	0	0	0	0	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	49	75	82	140	113	96	86	101	221	265	218	228	272	273	121	73	2440

STABILITY CLASS F
STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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																	40
.76- 3.50	10	1	3	7	18	12	21	26	48	102	160	103	107	39	12	4	673
3.51- 7.50	0	5	4	1	5	4	2	4	3	11	6	5	11	25	3	1	90
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	10	6	7	8	23	16	23	30	51	113	166	108	118	64	15	5	803

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY CLASS G
 STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET
 WIND MEASURED AT: 30.0 FEET
 WIND THRESHOLD AT: .75 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																	49
.76- 3.50	5	0	2	3	9	17	16	15	49	86	137	84	56	24	2	5	510
3.51- 7.50	0	0	0	2	2	1	0	0	0	0	0	0	1	2	0	0	8
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	5	0	2	5	11	18	16	15	49	86	137	84	57	26	2	5	567

STABILITY CLASS ALL
 STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET
 WIND MEASURED AT: 30.0 FEET
 WIND THRESHOLD AT: .75 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																	119
.76- 3.50	50	41	67	83	107	104	117	138	256	463	567	432	384	158	68	47	3082
3.51- 7.50	143	134	152	286	252	140	106	148	311	285	174	222	308	416	215	141	3433
7.51-12.50	45	14	22	81	143	31	28	47	61	90	21	41	163	368	245	118	1518
12.51-18.50	6	0	19	12	23	3	4	14	5	3	2	18	58	155	128	22	472
18.51-24.00	0	0	1	5	0	0	0	0	0	0	0	0	9	12	16	1	44
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	244	189	261	467	525	278	255	347	633	841	764	713	922	1109	672	329	8668

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - January through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 8784

TOTAL NUMBER OF VALID OBSERVATIONS: 8668

TOTAL NUMBER OF MISSING OBSERVATIONS: 116

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.7 %

MEAN WIND SPEED FOR THIS PERIOD: 5.5 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 20

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 18

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 90

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 111

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
6.18	4.49	5.72	39.65	28.15	9.26	6.54

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	12	6	1	6	3	6	10	6	30	79	45	66	100	92	55	19	0
B	16	5	3	8	7	11	5	9	18	39	21	24	52	68	87	16	0
C	19	9	6	17	32	10	11	13	38	43	36	32	55	68	75	32	0
D	133	88	160	283	336	121	104	173	226	216	141	171	268	518	317	179	3
E	49	75	82	140	113	96	86	101	221	265	218	228	272	273	121	73	27
F	10	6	7	8	23	16	23	30	51	113	166	108	118	64	15	5	40
G	5	0	2	5	11	18	16	15	49	86	137	84	57	26	2	5	49
TOTAL	244	189	261	467	525	278	255	347	633	841	764	713	922	1109	672	329	119

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - January through December 1992
SITE IDENTIFIER:
DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY CLASS A
STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .75 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
.76- 3.50	0	0	0	0	0	1	3	0	3	1	1	0	1	0	1	0	11
3.51- 7.50	3	1	0	1	3	5	5	4	5	22	22	11	19	17	8	5	131
7.51-12.50	7	5	1	3	2	5	1	2	12	35	17	27	41	22	19	12	211
12.51-18.50	6	1	1	1	0	0	0	0	3	13	5	8	24	41	21	6	130
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	7	8	11	16	0	43
>24.00	0	0	0	0	0	0	0	0	0	0	0	4	0	0	2	0	6
TOTAL	16	7	2	5	5	11	9	6	23	72	45	57	93	91	67	23	532

STABILITY CLASS B
STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .75 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
.76- 3.50	1	0	1	1	0	1	3	2	2	1	1	0	1	2	0	1	17
3.51- 7.50	5	5	2	2	3	2	3	0	5	9	14	7	9	16	8	4	94
7.51-12.50	10	2	2	5	5	6	3	1	7	18	8	6	15	16	24	10	138
12.51-18.50	4	1	0	0	0	0	1	0	2	6	1	2	11	23	38	7	96
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	2	5	11	14	2	35
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	0	7
TOTAL	20	8	5	8	8	9	10	3	16	35	24	17	42	69	89	24	387

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - January through December 1992
SITE IDENTIFIER:
DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .75 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
.76- 3.50	0	3	0	2	1	2	1	3	3	6	3	4	3	3	1	1	36
3.51- 7.50	12	10	2	6	10	6	5	8	15	11	14	6	15	13	14	13	160
7.51-12.50	12	2	3	8	13	3	1	5	11	25	9	7	11	10	21	9	148
12.51-18.50	4	1	1	3	6	2	0	1	1	9	0	1	9	27	25	9	99
18.51-24.00	1	0	0	0	0	0	0	0	0	1	0	1	6	8	20	0	37
>24.00	0	0	0	0	0	0	0	0	0	1	0	0	2	3	6	1	13
TOTAL	29	16	6	19	30	13	7	17	30	51	26	19	46	64	87	33	493

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET
WIND MEASURED AT: 175.0 FEET
WIND THRESHOLD AT: .75 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
.76- 3.50	13	18	31	25	31	15	22	14	21	18	15	10	11	17	17	16	294
3.51- 7.50	71	77	98	161	104	44	39	36	57	62	59	38	24	65	57	37	1029
7.51-12.50	65	38	55	77	163	62	34	66	134	77	24	49	58	128	116	49	1195
12.51-18.50	34	9	7	5	45	33	5	21	14	36	9	8	61	159	145	51	642
18.51-24.00	1	0	7	2	5	0	0	6	4	0	2	3	19	53	48	13	163
>24.00	0	0	4	6	1	0	2	0	2	0	0	3	21	28	20	2	89
TOTAL	184	142	202	276	349	154	102	143	232	193	109	111	194	450	403	168	3412

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - January through December 1992
 SITE IDENTIFIER:
 DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY CLASS E																	
STABILITY BASED ON: DELTA T																	
BETWEEN 175.0 AND 30.0 FEET																	
WIND MEASURED AT: 175.0 FEET																	
WIND THRESHOLD AT: .75 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																	11
.76- 3.50	18	23	25	25	20	9	14	15	10	11	11	19	21	20	14	4	259
3.51- 7.50	39	23	55	61	53	26	34	38	45	79	79	68	67	122	56	42	887
7.51-12.50	39	40	43	29	43	43	21	27	81	90	56	32	69	151	110	48	922
12.51-18.50	8	14	9	23	7	10	5	10	22	22	14	14	17	46	40	20	281
18.51-24.00	0	0	9	3	4	2	0	2	0	2	2	1	3	2	3	2	35
>24.00	0	0	0	1	0	0	0	0	1	0	1	0	0	1	0	0	4
TOTAL	104	100	141	142	127	90	74	92	159	204	163	134	177	342	223	116	2399

STABILITY CLASS F																	
STABILITY BASED ON: DELTA T																	
BETWEEN 175.0 AND 30.0 FEET																	
WIND MEASURED AT: 175.0 FEET																	
WIND THRESHOLD AT: .75 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	12	11	8	12	10	11	9	14	11	13	11	12	12	22	14	11	193
.76- 3.50	29	12	8	9	12	6	9	9	14	10	40	42	50	95	46	36	427
3.51- 7.50	2	7	8	3	2	5	4	0	5	7	14	14	18	39	19	8	155
7.51-12.50	0	1	0	0	0	0	0	0	1	1	1	0	2	1	1	1	9
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	43	31	26	24	24	22	22	23	31	31	66	68	82	157	80	56	784

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - January through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	9	8	10	5	9	10	9	7	15	15	22	13	25	18	13	7	195
3.51- 7.50	19	10	9	5	3	12	5	6	5	6	13	20	37	94	22	24	290
7.51-12.50	2	1	0	1	2	1	2	0	2	0	3	4	2	29	7	6	62
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	30	19	19	11	14	23	16	13	22	21	38	37	64	141	42	37	547

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	53	63	75	70	71	49	61	55	65	65	64	58	74	82	60	40	1005
3.51- 7.50	178	138	174	245	188	101	100	101	146	199	241	192	221	422	211	161	3018
7.51-12.50	137	95	112	126	230	125	66	101	252	250	131	139	214	395	316	142	2831
12.51-18.50	56	27	18	32	58	45	11	32	43	87	30	33	124	297	270	94	1257
18.51-24.00	2	0	16	5	9	2	0	8	4	5	4	14	41	85	101	17	313
>24.00	0	0	4	7	1	0	2	0	3	1	1	7	24	33	33	3	119
TOTAL	426	323	399	485	557	322	240	297	513	607	471	443	698	1314	991	457	8554

2/16/1993
TIME OF DAY: 13:46:17

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PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - January through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 1/ 1/92 - 12/31/92

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 8784

TOTAL NUMBER OF VALID OBSERVATIONS: 8554

TOTAL NUMBER OF MISSING OBSERVATIONS: 230

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.4 %

MEAN WIND SPEED FOR THIS PERIOD: 8.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
6.22	4.52	5.76	39.89	28.05	9.17	6.39

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	16	7	2	5	5	11	9	6	23	72	45	57	93	91	67	23	0
B	20	8	5	8	8	9	10	3	16	35	24	17	42	69	89	24	0
C	29	16	6	19	30	13	7	17	30	51	26	19	46	64	87	33	0
D	184	142	202	276	349	154	102	143	232	193	109	111	194	450	403	168	0
E	104	100	141	142	127	90	74	92	159	204	163	134	177	342	223	116	11
F	43	31	24	24	24	22	22	23	31	31	66	68	82	157	80	56	0
G	30	19	19	11	14	23	16	13	22	21	38	37	64	141	42	37	0
TOTAL	426	323	399	485	557	322	240	297	513	607	471	443	698	1314	991	457	11

1992 SECOND SEMIANNUAL
JOINT FREQUENCY DISTRIBUTION (JFDS)
30-FOOT LEVEL

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY CLASS A
 STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET
 WIND MEASURED AT: 30.0 FEET
 WIND THRESHOLD AT: .75 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
.76- 3.50	1	0	0	0	0	0	1	1	1	5	2	2	1	0	0	0	14
3.51- 7.50	4	4	0	1	2	3	3	2	5	17	20	25	41	16	13	5	161
7.51-12.50	3	2	1	3	1	2	0	0	2	13	2	5	20	18	12	5	89
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	2	3	7	0	12
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	8	6	1	4	3	5	4	3	8	35	24	32	64	37	32	10	276

STABILITY CLASS B
 STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET
 WIND MEASURED AT: 30.0 FEET
 WIND THRESHOLD AT: .75 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
.76- 3.50	0	0	0	0	0	0	0	0	0	4	1	2	7	2	1	0	17
3.51- 7.50	5	2	3	1	2	5	0	2	6	9	10	12	11	10	13	4	95
7.51-12.50	0	0	0	2	0	0	3	0	2	9	1	1	12	12	18	5	65
12.51-18.50	0	0	0	0	0	0	0	0	0	1	0	0	2	4	7	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	5	2	3	3	2	5	3	2	8	23	12	15	32	28	39	9	191

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	0	0	1	0	1	0	2	1	8	3	7	11	3	1	0	1	39
3.51- 7.50	8	3	0	5	4	1	4	2	7	8	8	7	15	11	12	6	101
7.51-12.50	0	0	1	1	0	0	0	0	2	4	0	0	3	14	8	2	35
12.51-18.50	1	0	0	0	0	0	0	0	0	1	0	0	1	5	2	0	10
18.51-24.00	9	0	0	0	0	0	0	0	0	0	0	0	1	1	3	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9	3	2	6	5	1	6	3	17	16	15	18	23	32	25	9	190

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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																	3
.76- 3.50	13	16	23	23	17	12	11	10	17	39	59	42	37	21	14	10	364
3.51- 7.50	50	42	69	62	66	22	17	38	49	52	22	40	32	58	41	30	690
7.51-12.50	13	8	7	1	26	3	2	6	13	20	2	4	26	60	39	31	261
12.51-18.50	1	0	11	4	2	0	2	6	2	0	0	0	2	27	11	3	71
18.51-24.00	0	0	0	5	0	0	0	0	0	0	0	0	0	8	3	0	16
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	77	66	110	95	111	37	32	60	81	111	83	86	97	174	108	74	1405

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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																	26
.76- 3.50	12	12	13	17	20	27	26	19	35	87	105	104	91	41	24	11	644
3.51- 7.50	19	37	15	27	23	15	19	28	80	59	25	34	54	91	34	27	587
7.51-12.50	1	4	6	7	2	4	6	5	7	9	4	4	7	38	14	5	123
12.51-18.50	0	0	0	2	8	1	0	2	1	0	1	0	0	3	0	0	18
18.51-24.00	0	0	1	0	0	0	0	0	0	0	0	0	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	53	35	53	53	47	51	54	123	155	135	142	152	173	72	43	1399

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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																	38
.76- 3.50	7	1	1	4	10	8	11	14	24	51	107	69	72	34	9	3	425
3.51- 7.50	0	3	2	1	5	4	2	3	2	8	5	2	4	12	3	1	57
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	7	4	3	5	15	12	3	17	26	59	112	71	76	46	12	4	520

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY CLASS G
STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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																	46
.76- 3.50	2	0	1	2	4	10	5	6	28	45	82	47	29	17	1	4	283
3.51- 7.50	0	0	0	1	2	0	0	0	0	0	0	0	1	1	0	0	5
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	2	0	1	3	6	10	5	6	28	45	82	47	30	18	1	4	334

STABILITY CLASS ALL
STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 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																	113
.76- 3.50	35	29	39	46	52	57	54	51	113	234	363	277	240	116	49	29	1786
3.51- 7.50	86	91	89	98	104	50	45	75	149	153	90	120	158	199	116	73	1696
7.51-12.50	17	14	15	14	29	9	11	11	26	55	9	14	68	142	91	48	573
12.51-18.50	2	0	11	6	10	1	2	8	3	2	1	0	7	42	27	3	125
18.51-24.00	0	0	1	5	0	0	0	0	0	0	0	0	1	9	6	0	22
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	140	134	155	169	195	117	114	145	291	444	463	411	474	508	289	153	4315

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 30 FT LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 30.0 FEET

WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4315

TOTAL NUMBER OF MISSING OBSERVATIONS: 101

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.7 %

MEAN WIND SPEED FOR THIS PERIOD: 4.8 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 20

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 17

NUMBER OF OBSERVATIONS WITH BACKUP STABILITY: 27

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 47

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
6.40	4.43	4.40	32.56	32.42	12.05	7.74

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	8	6	1	4	3	5	4	3	8	35	24	32	64	37	32	10	0
B	5	2	3	3	2	5	3	2	8	23	12	15	32	28	39	9	0
C	9	3	2	6	5	1	6	3	17	16	15	18	23	32	25	9	0
D	77	66	110	95	111	37	32	60	81	111	83	86	97	174	108	74	3
E	32	53	35	53	53	47	51	54	123	155	135	142	152	173	72	43	26
F	7	4	3	5	15	12	13	17	26	59	112	71	76	46	12	4	38
G	2	0	1	3	6	10	5	6	28	45	82	47	30	18	1	4	46
TOTAL	140	134	155	169	195	117	114	145	291	444	463	411	474	508	289	153	113

1992 SECOND SEMIANNUAL
JOINT FREQUENCY DISTRIBUTION (JFDS)
175-FOOT LEVEL

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	0	0	0	0	0	1	1	0	1	0	1	0	1	0	1	0	6
3.51- 7.50	3	1	0	1	3	5	1	3	2	5	13	7	10	10	4	5	73
7.51-12.50	3	5	1	3	1	4	0	1	5	13	4	18	29	10	15	5	117
12.51-18.50	3	1	1	0	0	0	0	0	0	10	2	6	17	14	9	4	67
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	0	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9	7	2	4	4	10	2	4	8	28	20	31	58	37	34	14	272

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	1	0	1	0	0	0	1	0	1	0	0	0	1	2	0	1	8
3.51- 7.50	1	2	2	2	2	0	1	0	4	4	9	4	7	9	7	2	56
7.51-12.50	5	0	1	2	0	2	3	1	2	10	3	3	7	7	14	6	66
12.51-18.50	1	0	0	0	0	0	1	0	0	6	1	1	9	10	11	7	47
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	5	4	1	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	8	2	4	4	2	2	6	1	7	21	13	8	24	34	36	17	189

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	0	1	0	0	1	1	0	2	1	3	0	3	3	3	1	1	20
3.51- 7.50	6	6	0	5	3	1	2	1	8	4	4	3	8	6	6	3	66
7.51-12.50	3	1	0	2	0	1	1	2	3	8	5	4	8	5	14	4	61
12.51-18.50	1	0	1	0	0	0	0	0	0	4	0	0	3	13	4	2	28
18.51-24.00	1	0	0	0	0	0	0	0	0	1	0	0	0	4	2	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	6
TOTAL	11	8	1	7	4	3	3	5	12	20	9	10	22	33	31	10	189

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	8	15	22	9	13	7	6	4	5	9	9	7	8	14	8	11	155
3.51- 7.50	32	49	68	58	47	13	8	9	15	22	26	18	11	25	28	17	446
7.51-12.50	30	29	38	18	49	20	15	25	50	46	17	26	26	38	49	18	494
12.51-18.50	18	9	6	1	5	15	0	1	8	22	4	4	16	38	48	18	213
18.51-24.00	1	0	7	2	2	0	0	3	3	0	0	0	0	12	16	1	47
>24.00	0	0	4	6	1	0	2	0	2	0	0	0	0	14	8	0	37
TOTAL	89	102	145	94	117	55	31	42	83	99	56	55	61	141	157	65	1392

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY CLASS E
STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	13	13	18	18	14	7	8	9	4	3	10	11	11	18	10	3	170
3.51- 7.50	25	14	28	30	33	17	18	21	18	49	35	43	41	70	29	31	502
7.51-12.50	23	26	21	9	20	24	4	12	51	69	34	17	43	81	60	29	523
12.51-18.50	6	13	6	6	1	4	4	7	19	12	8	5	8	37	27	6	169
18.51-24.00	0	0	0	1	4	2	0	2	0	2	2	1	2	2	2	0	20
>24.00	0	0	0	1	0	0	0	0	1	0	1	0	0	1	0	0	4
TOTAL	67	66	73	65	72	54	34	51	93	135	90	77	105	209	128	69	1388

STABILITY CLASS F
STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	9	5	6	8	8	4	7	9	7	9	6	6	7	12	11	5	119
3.51- 7.50	21	7	3	6	8	1	6	8	5	6	23	24	29	75	35	20	277
7.51-12.50	2	5	6	2	2	2	4	0	4	4	11	13	10	23	12	5	105
12.51-18.50	0	0	0	0	0	0	0	0	1	0	1	0	2	1	1	1	7
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	32	17	15	16	18	7	17	17	17	19	41	43	48	111	59	31	508

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET STABILITY CLASS G

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	6	7	6	2	4	4	4	5	5	8	11	10	18	11	11	4	116
3.51- 7.50	12	6	6	4	2	8	2	1	4	4	10	13	21	57	16	14	180
7.51-12.50	2	0	0	1	1	0	1	0	2	0	3	4	1	7	6	3	31
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	20	13	12	7	7	12	7	6	11	12	24	27	40	75	33	21	327

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET STABILITY CLASS ALL

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 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
.76- 3.50	37	41	53	37	40	24	27	29	24	32	37	37	49	60	42	25	594
3.51- 7.50	100	85	107	106	98	45	38	43	56	94	120	112	127	252	125	92	1600
7.51-12.50	68	66	67	37	73	53	28	41	117	150	77	85	124	171	170	70	1397
12.51-18.50	29	23	14	7	6	19	5	8	28	54	16	16	55	113	100	38	531
18.51-24.00	2	0	7	3	6	2	0	5	3	4	2	1	3	26	29	2	95
>24.00	0	0	4	7	1	0	2	0	3	0	1	0	0	18	12	0	48
TOTAL	236	215	252	197	224	143	100	126	231	334	253	251	358	640	478	227	4265

PROGRAM: JFD VERSION: PC-1.1

Limerick Generating Station - JFD 175-ft LEVEL - July through December 1992

SITE IDENTIFIER:

DATA PERIOD EXAMINED: 7/ 1/92 - 12/31/92

*** JUL - DEC 1992 ***

STABILITY BASED ON: DELTA T BETWEEN 175.0 AND 30.0 FEET

WIND MEASURED AT: 175.0 FEET

WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4265

TOTAL NUMBER OF MISSING OBSERVATIONS: 151

PERCENT DATA RECOVERY FOR THIS PERIOD: 96.6 %

MEAN WIND SPEED FOR THIS PERIOD: 8.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
6.36	4.43	4.43	32.64	32.54	11.91	7.67

DISTRIBUTION% OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	9	7	2	4	4	10	2	4	8	28	20	31	58	37	34	14	0
B	8	2	4	4	2	2	6	1	7	21	13	8	24	34	36	17	0
C	11	8	1	7	4	3	3	5	12	20	9	10	22	33	31	10	0
D	89	102	145	94	117	55	31	42	83	99	56	55	61	141	157	65	0
E	67	66	73	65	72	54	34	51	93	135	90	77	105	209	128	69	0
F	32	17	15	16	18	7	17	17	17	19	41	43	48	111	59	31	0
G	20	13	12	7	7	12	7	6	11	12	24	27	40	75	33	21	0
TOTAL	236	215	252	197	224	143	100	126	231	334	253	251	358	640	478	227	0