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TABLE 2.3-1

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY STABILITY CLASS

JAN 1, 77 - DEC 31, 79

WIND SPEED (MPH)	<u>STABILITY CLASS</u>						
	A	B	C	D	E	F	G
CALM	0.0	0.0	0.0	0.00	0.01	0.01	0.02
0.6- 1.4	0.0	0.0	0.0	0.05	0.68	0.50	0.57
1.5- 3.4	0.09	0.34	0.50	5.77	10.41	5.48	4.45
3.5- 5.4	2.29	2.11	1.52	8.77	9.77	4.03	2.13
5.5- 7.4	1.19	1.00	1.04	6.02	5.55	1.59	0.57
7.5-12.4	0.90	1.63	1.22	8.09	4.50	0.90	0.17
12.5-18.4	0.42	0.47	0.33	3.36	0.70	0.04	0.0
18.5-24.4	0.02	0.06	0.06	0.46	0.07	0.01	0.0
>=24.5	0.0	0.0	0.0	0.03	0.0	0.0	0.0
TOTAL	4.91	5.61	4.67	32.55	31.69	12.56	7.91

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	25935
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED STABILITY OBSERVATIONS	25577
TOTAL HOURS OF OBSERVATIONS	26280
JOINT RECOVERABILITY PERCENTAGE	97.3

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

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TABLE 2.3-2

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY STABILITY CLASS

JAN 1, 77 - DEC 31, 79

WIND SPEED (MPH)	<u>STABILITY CLASS</u>							
	A	B	C	D	E	F	G	
CALM	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0
0.6- 1.4	0.0	0.0	0.0	0.04	0.05	0.01	0.01	0.01
1.5- 3.4	0.0	0.0	0.04	2.22	1.25	0.29	0.08	0.08
3.5- 5.4	0.0	0.01	0.08	5.98	2.73	0.65	0.18	0.18
5.5- 7.4	0.01	0.01	0.11	6.98	3.34	0.83	0.29	0.29
7.5-12.4	0.0	0.02	0.16	17.73	9.76	2.64	0.90	0.90
12.5-18.4	0.0	0.03	0.14	15.61	9.95	3.19	0.58	0.58
18.5-24.4	0.0	0.01	0.02	6.30	3.07	0.90	0.18	0.18
>=24.5	0.0	0.0	0.05	2.48	0.82	0.0	0.0	0.0
TOTAL	0.01	0.08	0.60	57.34	30.97	8.51	2.22	

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	25729
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED STABILITY OBSERVATIONS	25347
TOTAL HOURS OF OBSERVATIONS	26280
JOINT RECOVERABILITY PERCENTAGE	96.4

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 45.30 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

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TABLE 2.3-3

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS A (DELTA T <= -1.9 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.0	0.0	0.0	0.04	0.12	0.05	0.0	0.0	0.21
NNE	0.0	0.0	0.0	0.05	0.19	0.10	0.0	0.0	0.34
NE	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.10
ENE	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01
E	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01
ESE	0.0	0.01	0.11	0.17	0.02	0.0	0.0	0.0	0.31
SE	0.0	0.03	1.11	0.40	0.02	0.0	0.0	0.0	1.56
SSE	0.0	0.04	0.52	0.10	0.02	0.0	0.0	0.0	0.68
S	0.0	0.01	0.38	0.11	0.04	0.0	0.0	0.0	0.54
SSW	0.0	0.0	0.04	0.05	0.01	0.0	0.0	0.0	0.10
SW	0.0	0.0	0.05	0.04	0.0	0.0	0.0	0.0	0.09
WSW	0.0	0.0	0.04	0.07	0.04	0.0	0.0	0.0	0.15
W	0.0	0.0	0.01	0.05	0.05	0.01	0.0	0.0	0.12
WNW	0.0	0.0	0.02	0.03	0.09	0.06	0.0	0.0	0.20
NW	0.0	0.0	0.0	0.02	0.17	0.11	0.0	0.0	0.30
NNW	0.0	0.0	0.01	0.01	0.06	0.09	0.02	0.0	0.19
SUBTOTAL	0.0	0.09	2.29	1.19	0.90	0.42	0.02	0.0	4.91

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25935
 TOTAL HOURS OF STABILITY CLASS A 1262
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 1259
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 6.8 MPH

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TABLE 2.3-4

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS B (-1.9< DELTA-T< = -1.7 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.0	0.0	0.05	0.09	0.30	0.04	0.01	0.0	0.49
NNE	0.0	0.0	0.05	0.07	0.27	0.05	0.0	0.0	0.44
NE	0.0	0.0	0.04	0.02	0.09	0.01	0.0	0.0	0.16
ENE	0.0	0.01	0.01	0.01	0.01	0.0	0.0	0.0	0.04
E	0.0	0.0	0.02	0.01	0.0	0.0	0.0	0.0	0.03
ESE	0.0	0.02	0.10	0.04	0.0	0.0	0.0	0.0	0.16
SE	0.0	0.13	0.64	0.09	0.02	0.0	0.0	0.0	0.88
SSE	0.0	0.09	0.31	0.02	0.01	0.0	0.0	0.0	0.43
S	0.0	0.05	0.42	0.07	0.02	0.0	0.0	0.0	0.56
SSW	0.0	0.02	0.07	0.01	0.0	0.0	0.0	0.0	0.10
SW	0.0	0.0	0.17	0.02	0.0	0.0	0.0	0.0	0.19
WSW	0.0	0.0	0.11	0.13	0.05	0.01	0.0	0.0	0.30
W	0.0	0.02	0.04	0.17	0.17	0.03	0.0	0.0	0.43
WNW	0.0	0.0	0.07	0.11	0.23	0.08	0.04	0.0	0.53
NW	0.0	0.0	0.01	0.07	0.27	0.13	0.01	0.0	0.49
NNW	0.0	0.0	0.0	0.07	0.19	0.12	0.0	0.0	0.38
SUBTOTAL	0.0	0.34	2.11	1.00	1.63	0.47	0.06	0.0	5.61

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25935
 TOTAL HOURS OF STABILITY CLASS B 1445
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 1440
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 7.2 MPH

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TABLE 2.3-5

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS C (-1.7 < DELTA-T < = -1.5 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.0	0.01	0.08	0.11	0.21	0.02	0.0	0.0	0.43
NNE	0.0	0.01	0.07	0.09	0.17	0.02	0.0	0.0	0.36
NE	0.0	0.0	0.03	0.08	0.05	0.0	0.0	0.0	0.16
ENE	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.04
E	0.0	0.0	0.03	0.02	0.0	0.0	0.0	0.0	0.05
ESE	0.0	0.01	0.05	0.02	0.0	0.0	0.0	0.0	0.08
SE	0.0	0.17	0.29	0.09	0.01	0.0	0.0	0.0	0.56
SSE	0.0	0.12	0.17	0.04	0.01	0.0	0.0	0.0	0.34
S	0.0	0.11	0.25	0.04	0.02	0.0	0.0	0.0	0.42
SSW	0.0	0.03	0.06	0.01	0.0	0.0	0.0	0.0	0.10
SW	0.0	0.03	0.12	0.03	0.01	0.0	0.0	0.0	0.19
WSW	0.0	0.0	0.11	0.07	0.07	0.0	0.0	0.0	0.25
W	0.0	0.0	0.05	0.12	0.10	0.02	0.01	0.0	0.30
WNW	0.0	0.01	0.12	0.13	0.17	0.07	0.04	0.0	0.54
NW	0.0	0.0	0.05	0.09	0.22	0.10	0.01	0.0	0.47
NNW	0.0	0.0	0.02	0.08	0.18	0.10	0.0	0.0	0.38
SUBTOTAL	0.0	0.50	1.52	1.04	1.22	0.33	0.06	0.0	4.67

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25935
 TOTAL HOURS OF STABILITY CLASS C 1202
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 1197
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 7.0 MPH

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TABLE 2.3-6

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS D (-1.5< DELTA-T< =-0.5 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.19	0.41	0.53	1.00	0.37	0.01	0.0	2.51
NNE	0.01	0.20	0.56	0.58	1.18	0.18	0.01	0.0	2.72
NE	0.01	0.12	0.38	0.43	0.52	0.01	0.0	0.0	1.47
ENE	0.0	0.26	0.23	0.15	0.05	0.01	0.0	0.0	0.70
E	0.0	0.20	0.31	0.17	0.05	0.0	0.0	0.0	0.73
ESE	0.0	0.24	0.51	0.30	0.08	0.0	0.0	0.0	1.13
SE	0.02	1.16	1.31	0.83	0.26	0.0	0.0	0.0	3.58
SSE	0.01	0.99	0.99	0.26	0.11	0.02	0.0	0.0	2.38
S	0.0	0.92	1.17	0.34	0.17	0.0	0.0	0.0	2.60
SSW	0.0	0.45	0.29	0.08	0.04	0.0	0.0	0.0	0.86
SW	0.0	0.24	0.29	0.09	0.02	0.01	0.0	0.0	0.65
WSW	0.0	0.32	0.70	0.29	0.33	0.11	0.0	0.0	1.75
W	0.0	0.18	0.55	0.62	0.63	0.22	0.03	0.0	2.23
WNW	0.0	0.13	0.39	0.42	1.10	0.82	0.22	0.01	3.09
NW	0.0	0.04	0.28	0.38	1.01	0.87	0.14	0.02	2.74
NNW	0.0	0.13	0.40	0.55	1.54	0.74	0.05	0.0	3.41
SUBTOTAL	0.05	5.77	8.77	6.02	8.09	3.36	0.46	0.03	32.55
TOTAL HOURS OF VALID STABILITY OBSERVATIONS					25935				
TOTAL HOURS OF STABILITY CLASS D					8438				
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D					8341				
TOTAL HOURS CALM					1				

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 7.1 MPH

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TABLE 2.3-7

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS E (-0.5 < DELTA-T <= 1.5 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.04	0.47	0.54	0.43	0.41	0.05	0.01	0.0	1.95
NNE	0.05	0.61	0.74	0.55	0.47	0.04	0.0	0.0	2.46
NE	0.05	0.57	0.63	0.42	0.27	0.02	0.0	0.0	1.96
ENE	0.05	0.71	0.45	0.17	0.08	0.02	0.0	0.0	1.48
E	0.04	0.61	0.74	0.16	0.07	0.0	0.0	0.0	1.62
ESE	0.03	0.76	1.01	0.53	0.16	0.01	0.0	0.0	2.50
SE	0.11	2.04	1.75	0.92	0.55	0.02	0.0	0.0	5.39
SSE	0.07	1.16	0.78	0.48	0.33	0.04	0.0	0.0	2.86
S	0.05	1.03	0.74	0.44	0.63	0.14	0.01	0.0	3.04
SSW	0.02	0.52	0.14	0.08	0.06	0.01	0.0	0.0	0.83
SW	0.04	0.30	0.07	0.02	0.03	0.0	0.0	0.0	0.46
WSW	0.01	0.53	0.60	0.14	0.11	0.04	0.0	0.0	1.43
W	0.02	0.37	0.77	0.42	0.27	0.04	0.0	0.0	1.89
WNW	0.03	0.15	0.13	0.11	0.22	0.09	0.02	0.0	0.75
NW	0.02	0.17	0.20	0.14	0.25	0.09	0.02	0.0	0.89
NNW	0.05	0.41	0.48	0.54	0.59	0.09	0.01	0.0	2.17
SUBTOTAL	0.68	10.41	9.77	5.55	4.50	0.70	0.07	0.0	31.68

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	25935
TOTAL HOURS OF STABILITY CLASS E	8264
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	8098
TOTAL HOURS CALM	3

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 5.0 MPH

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TABLE 2.3-8

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS F (1.5< DELTA-T< = 4.0 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.05	0.36	0.52	0.28	0.06	0.0	0.0	0.0	1.27
NNE	0.05	0.51	0.66	0.34	0.11	0.0	0.0	0.0	1.67
NE	0.07	0.34	0.27	0.18	0.01	0.0	0.0	0.0	0.87
ENE	0.03	0.53	0.33	0.05	0.0	0.0	0.0	0.0	0.94
E	0.01	0.59	0.52	0.03	0.0	0.0	0.0	0.0	1.15
ESE	0.0	0.52	0.22	0.0	0.0	0.0	0.0	0.0	0.74
SE	0.09	0.97	0.48	0.17	0.13	0.01	0.0	0.0	1.85
SSE	0.05	0.54	0.34	0.17	0.25	0.02	0.01	0.0	1.38
S	0.03	0.29	0.18	0.20	0.27	0.01	0.0	0.0	0.98
SSW	0.03	0.13	0.03	0.0	0.01	0.0	0.0	0.0	0.20
SW	0.0	0.09	0.03	0.0	0.0	0.0	0.0	0.0	0.12
WSW	0.0	0.09	0.07	0.0	0.0	0.0	0.0	0.0	0.16
W	0.02	0.09	0.06	0.0	0.01	0.0	0.0	0.0	0.18
WNW	0.01	0.08	0.01	0.0	0.0	0.0	0.0	0.0	0.10
NW	0.01	0.08	0.04	0.01	0.0	0.0	0.0	0.0	0.14
NNW	0.05	0.27	0.27	0.16	0.05	0.0	0.0	0.0	0.80
SUBTOTAL	0.50	5.48	4.03	1.59	0.90	0.04	0.01	0.0	12.55

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25935
 TOTAL HOURS OF STABILITY CLASS F 3268
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 3223
 TOTAL HOURS CALM 2

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL
 MEAN WIND SPEED = 4.0 MPH

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TABLE 2.3-9

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS G (DELTA T > 4.0 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.07	0.76	0.32	0.02	0.0	0.0	0.0	0.0	1.17
NNE	0.05	0.83	0.51	0.18	0.02	0.0	0.0	0.0	1.59
NE	0.04	0.34	0.12	0.02	0.0	0.0	0.0	0.0	0.52
ENE	0.04	0.48	0.18	0.02	0.0	0.0	0.0	0.0	0.72
E	0.02	0.52	0.34	0.0	0.0	0.0	0.0	0.0	0.88
ESE	0.01	0.18	0.01	0.0	0.0	0.0	0.0	0.0	0.20
SE	0.08	0.43	0.09	0.04	0.03	0.0	0.0	0.0	0.67
SSE	0.03	0.44	0.31	0.16	0.08	0.0	0.0	0.0	1.02
S	0.05	0.09	0.12	0.10	0.04	0.0	0.0	0.0	0.40
SSW	0.05	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.11
SW	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01
WSW	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.04
W	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.02
WNW	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
NW	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.08
NNW	0.05	0.23	0.12	0.03	0.0	0.0	0.0	0.0	0.43
SUBTOTAL	0.57	4.45	2.13	0.57	0.17	0.0	0.0	0.0	7.89

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25935
 TOTAL HOURS OF STABILITY CLASS G 2056
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 2019
 TOTAL HOURS CALM 4

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 10.03 AND 45.30 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 3.2 MPH

BFN-16

TABLE 2.3-10

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

JAN 1, 77 - DEC 31, 79

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.16	1.82	1.90	1.50	2.10	0.53	0.03	0.0	8.04
NNE	0.17	2.19	2.61	1.86	2.40	0.39	0.01	0.0	9.63
NE	0.17	1.36	1.46	1.19	1.01	0.05	0.0	0.0	5.24
ENE	0.13	1.99	1.22	0.42	0.15	0.02	0.0	0.0	3.93
E	0.07	1.93	1.94	0.38	0.12	0.0	0.0	0.0	4.44
ESE	0.05	1.74	2.01	1.07	0.27	0.01	0.0	0.0	5.15
SE	0.31	4.92	5.70	2.55	1.02	0.04	0.0	0.0	14.54
SSE	0.16	3.37	3.49	1.22	0.79	0.07	0.01	0.0	9.11
S	0.14	2.50	3.27	1.30	1.19	0.15	0.02	0.0	8.57
SSW	0.10	1.20	0.65	0.23	0.12	0.01	0.0	0.0	2.31
SW	0.04	0.69	0.73	0.22	0.07	0.01	0.0	0.0	1.76
WSW	0.03	0.97	1.60	0.69	0.60	0.15	0.0	0.0	4.04
W	0.04	0.66	1.47	1.38	1.22	0.32	0.05	0.0	5.14
WNW	0.04	0.39	0.74	0.78	1.81	1.12	0.33	0.02	5.23
NW	0.07	0.33	0.57	0.71	1.91	1.29	0.17	0.02	5.07
NNW	0.15	1.05	1.31	1.44	2.58	1.13	0.09	0.01	7.76
SUBTOTAL	1.83	27.11	30.67	16.94	17.36	5.29	0.71	0.05	99.96

TOTAL HOURS OF VALID WIND OBSERVATIONS 25810
 TOTAL HOURS OF OBSERVATIONS 26280
 RECOVERABILITY PERCENTAGE 98.2
 TOTAL HOURS CALM 10

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 5.7 MPH

BFN-16

TABLE 2.3-11

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

JANUARY (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	1.34	1.79	1.74	1.84	0.25	0.10	0.0	7.06
NNE	0.05	1.99	2.09	1.39	2.24	0.15	0.0	0.0	7.91
NE	0.0	1.25	1.44	1.20	1.15	0.0	0.0	0.0	5.04
ENE	0.0	1.29	1.29	0.45	0.0	0.0	0.0	0.0	3.03
E	0.05	1.39	2.84	0.50	0.15	0.0	0.0	0.0	4.93
ESE	0.05	0.80	2.29	0.80	0.10	0.0	0.0	0.0	4.04
SE	0.25	1.99	4.08	2.19	1.89	0.0	0.0	0.0	10.40
SSE	0.0	1.94	2.24	0.95	0.90	0.05	0.0	0.0	6.08
S	0.05	0.50	0.70	0.55	0.40	0.0	0.0	0.0	2.20
SSW	0.05	0.30	0.25	0.05	0.05	0.0	0.0	0.0	0.70
SW	0.0	0.10	0.15	0.05	0.0	0.0	0.0	0.0	0.30
WSW	0.0	0.60	0.75	0.10	0.10	0.15	0.0	0.0	1.70
W	0.0	0.80	0.85	1.54	1.69	1.05	0.15	0.0	6.08
WNW	0.0	0.50	0.75	0.85	3.29	3.64	1.99	0.10	11.12
NW	0.05	0.35	1.10	0.90	4.33	5.48	0.30	0.05	12.56
NNW	0.0	0.85	1.15	1.89	8.47	3.69	0.80	0.05	16.90
SUBTOTAL	0.55	15.99	23.76	15.15	26.60	14.46	3.34	0.20	100.05

TOTAL HOURS OF VALID WIND OBSERVATIONS 2008
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 90.0
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 7.9 MPH

BFN-16

TABLE 2.3-12

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

FEBRUARY (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.05	1.59	1.93	2.03	3.77	1.34	0.0	0.0	10.71
NNE	0.05	1.54	2.18	2.43	4.96	1.14	0.05	0.0	12.35
NE	0.10	0.84	1.64	1.44	1.39	0.10	0.0	0.0	5.51
ENE	0.0	1.34	0.89	0.74	0.25	0.0	0.0	0.0	3.22
E	0.15	1.54	1.19	0.60	0.25	0.0	0.0	0.0	3.73
ESE	0.10	1.39	1.14	0.69	0.05	0.0	0.0	0.0	3.37
SE	0.20	3.87	3.82	1.14	0.35	0.15	0.0	0.0	9.53
SSE	0.05	3.42	4.17	1.59	0.94	0.05	0.0	0.0	10.22
S	0.10	1.64	2.38	1.14	1.29	0.0	0.0	0.0	6.55
SSW	0.15	0.35	0.50	0.20	0.30	0.0	0.0	0.0	1.50
SW	0.0	0.35	0.64	0.40	0.15	0.10	0.0	0.0	1.64
WSW	0.05	0.45	0.64	0.30	1.34	0.64	0.0	0.0	3.42
W	0.0	0.40	0.74	0.64	1.39	0.60	0.0	0.0	3.77
WNW	0.0	0.30	0.79	0.69	2.58	1.88	0.30	0.0	6.54
NW	0.0	0.20	0.60	0.55	2.83	1.93	0.64	0.0	6.75
NNW	0.0	1.04	2.18	2.43	3.57	1.93	0.05	0.0	11.20
SUBTOTAL	1.00	20.26	25.43	17.01	25.41	9.86	1.04	0.0	100.01

TOTAL HOURS OF VALID WIND OBSERVATIONS 2016
 TOTAL HOURS OF OBSERVATIONS 2016
 RECOVERABILITY PERCENTAGE 100.0
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL
 MEAN WIND SPEED = 6.8 MPH

BFN-16

TABLE 2.3-13

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

MARCH (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.09	0.68	1.49	0.95	1.35	1.31	0.0	0.0	5.87
NNE	0.05	0.95	1.89	1.26	1.85	0.41	0.0	0.0	6.41
NE	0.05	0.77	1.40	1.94	0.95	0.0	0.0	0.0	5.11
ENE	0.18	0.77	0.81	0.27	0.0	0.0	0.0	0.0	2.03
E	0.0	0.90	1.53	0.27	0.0	0.0	0.0	0.0	2.70
ESE	0.09	2.07	2.03	0.99	0.54	0.0	0.0	0.0	5.72
SE	0.05	4.64	4.96	2.39	2.52	0.18	0.05	0.0	14.79
SSE	0.14	3.83	3.92	2.88	1.76	0.23	0.09	0.0	12.85
S	0.09	1.67	3.70	2.70	3.42	0.14	0.09	0.0	11.81
SSW	0.14	0.50	0.45	0.32	0.27	0.0	0.0	0.0	1.68
SW	0.05	0.41	0.59	0.18	0.18	0.0	0.0	0.0	1.41
WSW	0.0	0.54	1.13	0.63	1.31	0.27	0.0	0.0	3.88
W	0.05	0.27	0.90	1.35	1.98	0.90	0.09	0.0	5.54
WNW	0.0	0.27	0.41	0.81	2.66	1.85	0.14	0.05	6.19
NW	0.0	0.09	0.63	0.90	2.79	1.44	0.32	0.05	6.22
NNW	0.0	0.68	1.13	1.35	2.97	1.71	0.05	0.0	7.89
SUBTOTAL	0.98	19.04	26.97	19.19	24.55	8.44	0.83	0.10	100.10

TOTAL HOURS OF VALID WIND OBSERVATIONS 2219
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.4
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 6.7 MPH

BFN-16

TABLE 2.3-14

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

APRIL (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.14	1.44	1.26	0.79	1.26	0.51	0.14	0.0	5.54
NNE	0.09	2.37	1.72	1.63	1.40	0.47	0.0	0.0	7.68
NE	0.23	1.44	1.49	1.82	1.44	0.05	0.0	0.0	6.47
ENE	0.14	2.00	1.16	0.51	0.19	0.05	0.0	0.0	4.05
E	0.05	1.44	1.12	0.19	0.0	0.0	0.0	0.0	2.80
ESE	0.14	1.86	1.44	1.02	0.33	0.0	0.0	0.0	4.79
SE	0.70	4.42	5.26	2.42	1.40	0.0	0.0	0.0	14.20
SSE	0.14	4.93	4.75	0.70	0.93	0.0	0.0	0.0	11.45
S	0.33	2.93	4.10	1.86	2.09	0.19	0.0	0.0	11.50
SSW	0.09	1.16	0.84	0.61	0.33	0.0	0.0	0.0	3.03
SW	0.0	0.51	0.23	0.28	0.05	0.0	0.0	0.0	1.07
WSW	0.09	0.93	1.16	0.74	1.12	0.05	0.0	0.0	4.09
W	0.0	0.56	1.63	1.30	0.88	0.19	0.14	0.0	4.70
WNW	0.05	0.28	0.42	0.79	2.28	1.58	0.56	0.0	5.96
NW	0.14	0.09	0.42	0.74	1.91	1.40	0.14	0.0	4.84
NNW	0.14	0.88	1.07	1.40	2.65	1.68	0.0	0.0	7.82
SUBTOTAL	2.47	27.24	28.07	16.80	18.26	6.17	0.98	0.0	99.99

TOTAL HOURS OF VALID WIND OBSERVATIONS 2148
 TOTAL HOURS OF OBSERVATIONS 2160
 RECOVERABILITY PERCENTAGE 99.4
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL
 MEAN WIND SPEED = 5.8 MPH

BFN-16

TABLE 2.3-15

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

MAY (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.32	2.43	1.31	1.04	1.85	0.18	0.0	0.0	7.13
NNE	0.23	2.30	3.02	1.49	1.98	0.18	0.0	0.0	9.20
NE	0.23	1.76	1.49	0.81	1.04	0.0	0.0	0.0	5.33
ENE	0.32	3.16	1.44	0.09	0.14	0.0	0.0	0.0	5.15
E	0.09	2.75	1.58	0.41	0.14	0.0	0.0	0.0	4.97
ESE	0.09	1.85	2.98	1.17	0.18	0.0	0.0	0.0	6.27
SE	0.23	5.55	6.40	1.80	0.23	0.0	0.0	0.0	14.21
SSE	0.18	3.88	3.11	0.90	0.50	0.0	0.0	0.0	8.57
S	0.18	3.07	3.34	1.26	0.72	0.05	0.0	0.0	8.62
SSW	0.0	1.71	1.26	0.41	0.0	0.0	0.0	0.0	3.38
SW	0.05	1.04	1.31	0.32	0.23	0.0	0.0	0.0	2.95
WSW	0.0	1.13	2.30	1.35	0.54	0.05	0.0	0.0	5.37
W	0.0	0.59	1.49	1.58	1.67	0.32	0.14	0.0	5.79
WNW	0.18	0.50	0.41	0.90	1.53	0.27	0.36	0.0	4.15
NW	0.09	0.41	0.59	1.04	1.35	0.41	0.05	0.0	3.94
NNW	0.32	1.22	0.81	0.41	1.44	0.86	0.05	0.0	5.11
SUBTOTAL	2.51	33.35	32.84	14.98	13.54	2.32	0.60	0.0	100.14

TOTAL HOURS OF VALID WIND OBSERVATIONS 2218
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.4
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 5.0 MPH

BFN-16

TABLE 2.3-16

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

JUNE (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.28	2.75	1.58	1.35	2.56	0.47	0.0	0.05	9.04
NNE	0.37	2.28	1.68	1.07	2.23	0.65	0.0	0.0	8.28
NE	0.42	1.40	0.93	0.42	0.42	0.19	0.0	0.0	3.78
ENE	0.33	2.09	0.74	0.09	0.0	0.0	0.0	0.0	3.25
E	0.09	1.58	1.58	0.05	0.0	0.0	0.0	0.0	3.30
ESE	0.0	2.05	1.96	0.14	0.0	0.0	0.0	0.0	4.15
SE	0.28	7.64	5.31	1.30	0.14	0.0	0.0	0.0	14.67
SSE	0.19	3.40	2.37	0.37	0.0	0.0	0.0	0.0	6.33
S	0.19	3.82	3.26	0.70	0.05	0.0	0.0	0.0	8.02
SSW	0.23	2.65	0.79	0.05	0.0	0.0	0.0	0.0	3.72
SW	0.05	1.72	1.30	0.14	0.0	0.0	0.0	0.0	3.21
WSW	0.0	2.47	3.21	1.49	0.51	0.0	0.0	0.0	7.68
W	0.0	1.82	3.35	2.42	1.72	0.0	0.0	0.0	9.31
WNW	0.09	0.33	0.98	0.93	2.14	0.23	0.0	0.0	4.70
NW	0.0	0.37	0.65	1.16	1.91	0.19	0.0	0.0	4.28
NNW	0.23	1.77	1.30	2.05	0.70	0.09	0.0	0.0	6.14
SUBTOTAL	2.75	38.14	30.99	13.73	12.38	1.82	0.0	0.05	99.86

TOTAL HOURS OF VALID WIND OBSERVATIONS 2148
 TOTAL HOURS OF OBSERVATIONS 2160
 RECOVERABILITY PERCENTAGE 99.4
 TOTAL HOURS CALM 3

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 4.6 MPH

BFN-16

TABLE 2.3-17

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

JULY (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.13	1.70	2.11	1.03	0.72	0.04	0.0	0.0	5.73
NNE	0.13	2.69	3.14	1.48	2.24	0.09	0.04	0.0	9.81
NE	0.09	1.30	1.26	0.99	0.85	0.0	0.0	0.0	4.49
ENE	0.04	2.11	1.57	0.22	0.04	0.0	0.0	0.0	3.98
E	0.0	1.26	2.47	0.49	0.36	0.0	0.0	0.0	4.58
ESE	0.0	1.03	2.24	1.61	0.18	0.09	0.0	0.0	5.15
SE	0.22	4.53	6.32	3.81	1.08	0.09	0.0	0.0	16.05
SSE	0.13	3.36	3.63	0.22	0.13	0.0	0.0	0.0	7.47
S	0.13	4.39	5.25	0.94	0.27	0.04	0.0	0.0	11.02
SSW	0.0	2.65	1.17	0.04	0.13	0.0	0.0	0.0	3.99
SW	0.09	1.57	1.79	0.22	0.0	0.0	0.0	0.0	3.67
WSW	0.0	2.11	4.08	1.08	0.67	0.0	0.0	0.0	7.94
W	0.0	1.48	2.74	2.20	0.90	0.0	0.0	0.0	7.32
WNW	0.04	0.31	1.39	0.76	1.26	0.27	0.0	0.0	4.03
NW	0.04	0.13	0.40	0.36	0.90	0.22	0.0	0.0	2.05
NNW	0.18	0.54	0.45	0.81	0.58	0.09	0.0	0.0	2.65
SUBTOTAL	1.22	31.16	40.01	16.26	10.31	0.93	0.04	0.0	99.93

TOTAL HOURS OF VALID WIND OBSERVATIONS 2230
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.9
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 4.7 MPH

BFN-16

TABLE 2.3-18

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

AUGUST (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.18	2.34	1.80	1.53	1.21	0.09	0.0	0.0	7.15
NNE	0.36	2.97	3.42	2.20	0.90	0.13	0.04	0.0	10.02
NE	0.27	2.07	1.35	0.63	0.31	0.0	0.0	0.0	4.63
ENE	0.04	2.43	1.26	0.40	0.04	0.0	0.0	0.0	4.17
E	0.13	2.56	1.80	0.13	0.0	0.0	0.0	0.0	4.62
ESE	0.0	2.02	2.07	0.90	0.13	0.0	0.0	0.0	5.12
SE	0.18	8.00	10.88	2.74	0.09	0.0	0.0	0.0	21.89
SSE	0.18	4.09	4.00	0.36	0.04	0.0	0.0	0.0	8.67
S	0.22	4.32	4.59	0.72	0.45	0.0	0.0	0.0	10.30
SSW	0.04	2.61	0.94	0.18	0.0	0.0	0.0	0.0	3.77
SW	0.0	0.99	0.85	0.18	0.04	0.0	0.0	0.0	2.06
WSW	0.09	1.35	2.07	0.58	0.04	0.0	0.0	0.0	4.13
W	0.04	0.76	1.71	1.71	0.58	0.0	0.0	0.0	4.80
WNW	0.0	0.40	0.72	0.99	0.45	0.04	0.0	0.0	2.60
NW	0.0	0.54	0.36	0.36	0.63	0.09	0.0	0.0	1.98
NNW	0.31	0.90	1.21	0.90	0.58	0.09	0.0	0.0	3.99
SUBTOTAL	2.04	38.35	39.03	14.51	5.49	0.44	0.04	0.0	99.90

TOTAL HOURS OF VALID WIND OBSERVATIONS 2224
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.6
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 4.1 MPH

BFN-16

TABLE 2.3-19

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

SEPT. (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.15	2.64	2.74	2.79	2.79	0.40	0.05	0.0	11.56
NNE	0.10	2.99	4.98	2.94	3.33	0.75	0.0	0.0	15.09
NE	0.10	1.49	2.49	1.89	1.49	0.20	0.0	0.0	7.66
ENE	0.20	3.04	2.59	1.29	0.45	0.20	0.05	0.0	7.82
E	0.0	2.24	3.93	1.00	0.40	0.0	0.0	0.0	7.57
ESE	0.05	2.39	3.68	1.79	0.25	0.0	0.0	0.0	8.16
SE	0.35	3.88	6.57	3.14	0.30	0.0	0.0	0.0	14.24
SSE	0.10	1.54	3.14	0.45	0.20	0.20	0.0	0.0	5.63
S	0.05	1.69	3.04	0.30	0.0	0.0	0.0	0.0	5.08
SSW	0.05	0.45	0.05	0.25	0.0	0.0	0.0	0.0	0.80
SW	0.05	0.40	0.80	0.15	0.0	0.0	0.0	0.0	1.40
WSW	0.0	0.35	0.60	0.0	0.20	0.0	0.0	0.0	1.15
W	0.0	0.25	1.19	0.90	0.30	0.05	0.0	0.0	2.69
WNW	0.0	0.30	0.65	0.55	0.35	0.20	0.0	0.0	2.05
NW	0.10	0.30	0.50	0.75	1.05	0.15	0.0	0.05	2.90
NNW	0.15	1.74	1.74	1.34	0.95	0.15	0.0	0.05	6.12
SUBTOTAL	1.45	25.69	38.69	19.53	12.06	2.30	0.10	0.10	99.92

TOTAL HOURS OF VALID WIND OBSERVATIONS 2009
 TOTAL HOURS OF OBSERVATIONS 2160
 RECOVERABILITY PERCENTAGE 93.0
 TOTAL HOURS CALM 3

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 5.1 MPH

BFN-16

TABLE 2.3-20

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

OCTOBER (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.18	2.38	3.64	1.75	2.43	0.90	0.0	0.0	11.28
NNE	0.09	2.79	3.14	1.80	1.93	0.18	0.0	0.0	9.93
NE	0.27	1.44	0.99	0.54	0.67	0.0	0.0	0.0	3.91
ENE	0.13	2.61	0.76	0.18	0.09	0.0	0.0	0.0	3.77
E	0.18	3.19	2.70	0.13	0.0	0.0	0.0	0.0	6.20
ESE	0.0	2.34	2.25	1.21	0.67	0.0	0.0	0.0	6.47
SE	0.09	5.03	4.99	1.89	1.48	0.04	0.0	0.0	13.52
SSE	0.31	2.92	3.37	0.72	0.31	0.04	0.0	0.0	7.67
S	0.0	2.29	3.32	1.44	0.31	0.0	0.0	0.0	7.36
SSW	0.27	0.63	0.22	0.27	0.0	0.0	0.0	0.0	1.39
SW	0.09	0.49	0.36	0.22	0.04	0.0	0.0	0.0	1.20
WSW	0.0	0.49	1.03	0.81	0.49	0.0	0.0	0.0	2.82
W	0.13	0.31	1.08	1.03	1.26	0.04	0.0	0.0	3.85
WNW	0.04	0.58	0.76	0.76	1.71	0.45	0.0	0.0	4.30
NW	0.18	0.63	0.90	0.81	2.07	1.26	0.0	0.0	5.85
NNW	0.09	1.66	2.02	2.07	3.32	1.21	0.0	0.0	10.37
SUBTOTAL	2.05	29.78	31.53	15.63	16.78	4.12	0.0	0.0	99.89

TOTAL HOURS OF VALID WIND OBSERVATIONS 2226
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.7
 TOTAL HOURS CALM 1

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 5.3 MPH

BFN-16

TABLE 2.3-21

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

NOVEMBER (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.33	1.73	2.10	2.19	2.89	0.23	0.0	0.0	9.47
NNE	0.37	2.38	2.71	3.22	3.55	0.42	0.0	0.0	12.65
NE	0.09	1.26	2.10	1.87	1.73	0.09	0.0	0.0	7.14
ENE	0.14	1.96	1.26	0.61	0.61	0.05	0.0	0.0	4.63
E	0.0	2.89	1.35	0.51	0.14	0.0	0.0	0.0	4.89
ESE	0.0	1.35	0.84	1.77	0.65	0.0	0.0	0.0	4.61
SE	0.47	5.74	3.73	2.61	1.12	0.0	0.0	0.0	13.67
SSE	0.28	3.55	3.03	2.43	1.63	0.05	0.0	0.0	10.97
S	0.19	1.31	1.77	1.31	1.63	0.37	0.05	0.0	6.63
SSW	0.09	0.37	0.42	0.0	0.05	0.0	0.0	0.0	0.93
SW	0.09	0.42	0.14	0.23	0.09	0.0	0.0	0.0	0.97
WSW	0.09	0.51	1.03	0.75	0.37	0.19	0.0	0.0	2.94
W	0.23	0.56	1.03	0.79	0.70	0.51	0.09	0.0	3.91
WNW	0.05	0.65	0.93	0.79	1.03	0.89	0.14	0.0	4.48
NW	0.09	0.42	0.23	0.47	1.35	1.45	0.14	0.0	4.15
NNW	0.33	1.17	1.68	1.31	2.71	0.61	0.0	0.0	7.81
SUBTOTAL	2.84	26.27	24.35	20.86	20.25	4.86	0.42	0.0	99.85

TOTAL HOURS OF VALID WIND OBSERVATIONS 2143
 TOTAL HOURS OF OBSERVATIONS 2160
 RECOVERABILITY PERCENTAGE 99.2
 TOTAL HOURS CALM 3

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 5.8 MPH

BFN-16

TABLE 2.3-22

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

DECEMBER (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.09	0.90	1.13	1.04	2.75	0.63	0.14	0.0	6.68
NNE	0.09	1.04	1.40	1.49	2.48	0.23	0.0	0.0	6.73
NE	0.14	1.31	1.08	0.86	0.77	0.0	0.0	0.0	4.16
ENE	0.0	1.04	0.90	0.27	0.0	0.0	0.0	0.0	2.21
E	0.14	1.35	1.35	0.36	0.09	0.0	0.0	0.0	3.29
ESE	0.09	1.62	1.31	0.68	0.09	0.0	0.0	0.0	3.79
SE	0.68	3.42	5.67	5.00	1.58	0.0	0.0	0.0	16.35
SSE	0.18	3.38	4.05	3.02	2.16	0.23	0.05	0.0	13.07
S	0.14	2.07	3.38	2.52	3.47	1.04	0.09	0.0	12.71
SSW	0.09	0.86	0.81	0.41	0.36	0.09	0.0	0.0	2.62
SW	0.05	0.14	0.50	0.23	0.0	0.0	0.0	0.0	0.92
WSW	0.0	0.59	0.95	0.36	0.50	0.50	0.0	0.0	2.90
W	0.0	0.09	0.81	1.04	1.53	0.27	0.0	0.0	3.74
WNW	0.05	0.27	0.68	0.50	2.52	2.30	0.59	0.05	6.96
NW	0.09	0.41	0.54	0.50	2.03	1.85	0.50	0.05	5.97
NNW	0.05	0.23	1.08	1.44	3.51	1.67	0.14	0.0	8.12
SUBTOTAL	1.88	18.72	25.64	19.72	23.84	8.81	1.51	0.10	100.22

TOTAL HOURS OF VALID WIND OBSERVATIONS 2221
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.5
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

MEAN WIND SPEED = 6.8 MPH

BFN-16

TABLE 2.3-23

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS A (DELTA T <= -1.9 C/100 M)

JAN 1, 77 - DEC 31, 79

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	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
SE	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
S	0.0	0.0	0.0	0.0	0.0	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
SW	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01
WSW	0.0	0.0	0.0	0.0	0.0	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
WNW	0.0	0.0	0.0	0.0	0.0	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
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25729
 TOTAL HOURS OF STABILITY CLASS A 6
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 6
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 45.30 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 9.5 MPH

BFN-16

TABLE 2.3-24

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS B (-1.9< DELTA-T< = -1.7 C/100 M)

JAN 1, 77 - DEC 31, 79

<u>WIND</u> <u>DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01
SSE	0.0	0.0	0.0	0.0	0.0	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
SSW	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	0.01	0.01	0.0	0.0	0.0	0.02
WSW	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.01
W	0.0	0.0	0.0	0.0	0.0	0.02	0.01	0.0	0.03
WNW	0.0	0.0	0.0	0.0	0.0	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
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	0.0	0.0	0.01	0.01	0.02	0.03	0.01	0.0	0.08

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25729
 TOTAL HOURS OF STABILITY CLASS B 30
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 30
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 45.30 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 10.4 MPH

BFN-16

TABLE 2.3-25

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS C (-1.7 < DELTA-T <= -1.5 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.02	0.01	0.0	0.0	0.03
SE	0.0	0.01	0.03	0.02	0.01	0.0	0.0	0.0	0.07
SSE	0.0	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.03
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01
SW	0.0	0.01	0.02	0.04	0.04	0.02	0.0	0.0	0.13
WSW	0.0	0.01	0.01	0.03	0.04	0.02	0.0	0.0	0.11
W	0.0	0.0	0.0	0.0	0.03	0.03	0.02	0.04	0.12
WNW	0.0	0.0	0.0	0.01	0.02	0.03	0.01	0.01	0.07
NW	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.03
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL	0.0	0.04	0.08	0.11	0.16	0.14	0.02	0.05	0.60

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25729
 TOTAL HOURS OF STABILITY CLASS C 164
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 164
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 45.30 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 11.0 MPH

BFN-16

TABLE 2.3-26

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS D (-1.5< DELTA-T< = -0.5 C/100 M)

JAN 1, 77 - DEC 31, 79

<u>WIND</u> <u>DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.01	0.11	0.30	0.48	1.54	1.51	0.38	0.05	4.38
NNE	0.0	0.09	0.22	0.43	1.65	1.42	0.15	0.04	4.00
NE	0.0	0.06	0.21	0.41	1.18	0.48	0.04	0.02	2.40
ENE	0.01	0.09	0.21	0.21	0.42	0.15	0.05	0.02	1.16
E	0.0	0.11	0.24	0.20	0.25	0.12	0.02	0.0	0.94
ESE	0.0	0.12	0.28	0.32	0.81	0.64	0.20	0.06	2.43
SE	0.01	0.22	0.71	0.75	1.42	1.39	0.81	0.32	5.63
SSE	0.0	0.20	0.69	0.56	1.39	1.34	0.58	0.28	5.04
S	0.0	0.25	0.49	0.48	1.33	1.24	0.71	0.31	4.81
SSW	0.0	0.20	0.44	0.39	0.86	0.82	0.39	0.16	3.26
SW	0.0	0.27	0.43	0.37	0.68	0.65	0.26	0.10	2.76
WSW	0.0	0.15	0.53	0.44	0.59	0.53	0.24	0.13	2.61
W	0.0	0.13	0.50	0.60	1.25	0.65	0.35	0.30	3.78
WNW	0.0	0.07	0.27	0.49	1.63	1.27	0.67	0.28	4.68
NW	0.01	0.07	0.28	0.54	1.42	1.70	0.86	0.28	5.16
NNW	0.0	0.08	0.18	0.31	1.31	1.70	0.59	0.13	4.30
SUBTOTAL	0.04	2.22	5.98	6.98	17.73	15.61	6.30	2.48	57.34

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25729
 TOTAL HOURS OF STABILITY CLASS D 14807
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 14557
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 45.30 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 12.1 MPH

BFN-16

TABLE 2.3-27

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS E (-0.5 < DELTA-T <= 1.5 C/100 M)

JAN 1, 77 - DEC 31, 79

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.05	0.07	0.13	0.45	0.77	0.15	0.0	1.62
NNE	0.0	0.04	0.07	0.12	0.67	0.88	0.17	0.0	1.95
NE	0.0	0.04	0.10	0.15	0.77	0.87	0.26	0.0	2.19
ENE	0.0	0.04	0.08	0.12	0.45	0.39	0.11	0.02	1.21
E	0.0	0.09	0.16	0.19	0.47	0.17	0.05	0.01	1.14
ESE	0.01	0.07	0.17	0.21	0.63	0.70	0.17	0.03	1.99
SE	0.0	0.09	0.43	0.39	1.35	1.50	0.71	0.37	4.84
SSE	0.0	0.17	0.42	0.51	1.14	1.01	0.57	0.25	4.07
S	0.01	0.09	0.34	0.45	0.89	0.95	0.27	0.09	3.09
SSW	0.0	0.09	0.14	0.20	0.59	0.61	0.20	0.01	1.84
SW	0.01	0.07	0.14	0.17	0.56	0.64	0.10	0.03	1.72
WSW	0.01	0.08	0.11	0.14	0.42	0.34	0.07	0.01	1.18
W	0.0	0.07	0.13	0.18	0.39	0.30	0.04	0.0	1.11
WNW	0.01	0.07	0.15	0.15	0.35	0.20	0.04	0.0	0.97
NW	0.0	0.09	0.15	0.14	0.33	0.27	0.07	0.0	1.05
NNW	0.0	0.10	0.07	0.09	0.30	0.35	0.09	0.0	1.00
SUBTOTAL	0.05	1.25	2.73	3.34	9.76	9.95	3.07	0.82	30.97

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25729
 TOTAL HOURS OF STABILITY CLASS E 7965
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 7855
 TOTAL HOURS CALM 1

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 45.30 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL
 MEAN WIND SPEED = 12.0 MPH

BFN-16

TABLE 2.3-28

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS F (1.5< DELTA-T< = 4.0 C/100 M)

JAN 1, 77 - DEC 31, 79

WIND DIRECTION	WIND SPEED (MPH)								TOTAL
	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5	
N	0.0	0.02	0.02	0.02	0.09	0.18	0.06	0.0	0.39
NNE	0.0	0.0	0.04	0.02	0.11	0.36	0.17	0.0	0.70
NE	0.0	0.01	0.02	0.04	0.17	0.40	0.24	0.0	0.88
ENE	0.0	0.01	0.02	0.03	0.22	0.34	0.16	0.0	0.78
E	0.0	0.01	0.06	0.05	0.24	0.11	0.05	0.0	0.47
ESE	0.0	0.04	0.06	0.10	0.29	0.27	0.05	0.0	0.81
SE	0.0	0.02	0.08	0.14	0.39	0.33	0.03	0.0	0.99
SSE	0.0	0.02	0.06	0.09	0.30	0.21	0.02	0.0	0.70
S	0.0	0.04	0.05	0.08	0.17	0.17	0.01	0.0	0.52
SSW	0.0	0.02	0.06	0.06	0.19	0.29	0.10	0.0	0.72
SW	0.0	0.02	0.03	0.05	0.18	0.24	0.06	0.0	0.58
WSW	0.0	0.01	0.03	0.06	0.09	0.14	0.0	0.0	0.33
W	0.01	0.0	0.02	0.02	0.09	0.04	0.0	0.0	0.18
WNW	0.0	0.02	0.03	0.03	0.04	0.04	0.0	0.0	0.16
NW	0.0	0.02	0.05	0.02	0.04	0.0	0.0	0.0	0.13
NNW	0.0	0.03	0.02	0.02	0.03	0.07	0.0	0.0	0.17
SUBTOTAL	0.01	0.29	0.65	0.83	2.64	3.19	0.90	0.0	8.51

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25729
 TOTAL HOURS OF STABILITY CLASS F 2183
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 2167
 TOTAL HOURS CALM 1

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 45.30 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 12.1 MPH

BFN-16

TABLE 2.3-29

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS G (DELTA T > 4.0 C/100 M)

JAN 1, 77 - DEC 31, 79

<u>WIND</u> <u>DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.01	0.01	0.0	0.0	0.02	0.02	0.01	0.0	0.07
NNE	0.0	0.0	0.0	0.0	0.05	0.06	0.02	0.0	0.13
NE	0.0	0.01	0.0	0.01	0.04	0.10	0.05	0.0	0.21
ENE	0.0	0.0	0.01	0.01	0.07	0.08	0.03	0.0	0.20
E	0.0	0.01	0.01	0.02	0.05	0.03	0.01	0.0	0.13
ESE	0.0	0.01	0.02	0.02	0.06	0.04	0.01	0.0	0.16
SE	0.0	0.0	0.01	0.05	0.12	0.03	0.0	0.0	0.21
SSE	0.0	0.0	0.03	0.04	0.18	0.06	0.0	0.0	0.31
S	0.0	0.01	0.01	0.06	0.12	0.04	0.0	0.0	0.24
SSW	0.0	0.0	0.01	0.03	0.08	0.05	0.01	0.0	0.18
SW	0.0	0.0	0.02	0.03	0.08	0.05	0.04	0.0	0.22
WSW	0.0	0.0	0.01	0.01	0.02	0.02	0.0	0.0	0.06
W	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.02
WNW	0.0	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.03
NW	0.0	0.0	0.02	0.01	0.0	0.0	0.0	0.0	0.03
NNW	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.02
SUBTOTAL	0.01	0.08	0.18	0.29	0.90	0.58	0.18	0.0	2.22

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 25729
 TOTAL HOURS OF STABILITY CLASS G 574
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 568
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 STABILITY BASED ON LAPSE RATE MEASURED BETWEEN 45.30 AND 89.59 METERS
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 11.0 MPH

BFN-16

TABLE 2.3-30

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

JAN 1, 77 - DEC 31, 79

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.02	0.19	0.38	0.64	2.07	2.47	0.61	0.06	6.44
NNE	0.0	0.13	0.33	0.60	2.46	2.69	0.50	0.04	6.75
NE	0.0	0.12	0.35	0.64	2.16	1.85	0.58	0.02	5.72
ENE	0.02	0.14	0.32	0.36	1.15	0.95	0.34	0.04	3.32
E	0.0	0.22	0.47	0.45	0.99	0.43	0.08	0.01	2.65
ESE	0.01	0.23	0.53	0.66	1.79	1.63	0.42	0.09	5.36
SE	0.02	0.36	1.26	1.36	3.25	3.20	1.54	0.69	11.68
SSE	0.01	0.38	1.20	1.22	2.97	2.59	1.16	0.59	10.12
S	0.02	0.40	0.90	1.05	2.53	2.40	1.03	0.43	8.76
SSW	0.0	0.31	0.65	0.69	1.73	1.77	0.73	0.19	6.07
SW	0.02	0.38	0.66	0.69	1.55	1.62	0.50	0.14	5.56
WSW	0.01	0.26	0.69	0.68	1.15	1.05	0.36	0.17	4.37
W	0.02	0.20	0.66	0.81	1.76	1.04	0.42	0.35	5.26
WNW	0.01	0.17	0.46	0.69	2.03	1.54	0.76	0.30	5.96
NW	0.02	0.19	0.49	0.70	1.80	2.01	0.96	0.28	6.45
NNW	0.01	0.22	0.28	0.41	1.66	2.13	0.70	0.13	5.54
SUBTOTAL	0.19	3.90	9.63	11.65	31.05	29.37	10.69	3.53	100.01

TOTAL HOURS OF VALID WIND OBSERVATIONS 25784
 TOTAL HOURS OF OBSERVATIONS 26280
 RECOVERABILITY PERCENTAGE 98.1
 TOTAL HOURS CALM 2

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 12.0 MPH

BFN-16

TABLE 2.3-31

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

JANUARY (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.34	0.58	0.87	1.69	1.74	0.10	0.0	5.32
NNE	0.0	0.15	0.63	1.21	2.90	1.21	0.0	0.0	6.10
NE	0.0	0.05	0.39	0.92	2.32	0.73	0.0	0.0	4.41
ENE	0.0	0.05	0.58	0.44	1.16	0.48	0.0	0.0	2.71
E	0.0	0.19	0.48	0.63	0.87	0.05	0.0	0.0	2.22
ESE	0.0	0.10	0.29	0.92	1.84	1.89	0.34	0.05	5.43
SE	0.0	0.10	0.34	1.16	2.51	2.80	2.61	1.06	10.58
SSE	0.0	0.15	0.29	0.77	1.60	2.27	0.92	0.29	6.29
S	0.0	0.19	0.29	0.58	1.89	1.64	0.58	0.10	5.27
SSW	0.0	0.19	0.24	0.15	0.48	0.44	0.05	0.0	1.55
SW	0.0	0.15	0.19	0.29	0.77	0.58	0.05	0.15	2.18
WSW	0.0	0.24	0.29	0.34	0.63	0.34	0.39	0.44	2.67
W	0.0	0.19	0.29	0.44	1.60	1.55	0.97	1.55	6.59
WNW	0.0	0.10	0.44	0.29	2.66	4.55	1.93	1.50	11.47
NW	0.05	0.19	0.73	0.87	2.13	5.95	3.53	0.77	14.22
NNW	0.0	0.34	0.15	0.73	3.34	5.90	1.74	0.87	13.07
SUBTOTAL	0.05	2.72	6.20	10.61	28.39	32.12	13.21	6.78	100.08

TOTAL HOURS OF VALID WIND OBSERVATIONS 2068
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 92.7
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL
 MEAN WIND SPEED = 13.4 MPH

BFN-16

TABLE 2.3-32

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

FEBRUARY (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.15	0.51	1.02	3.63	3.78	1.07	0.0	10.16
NNE	0.0	0.20	0.20	0.66	4.19	4.55	0.26	0.05	10.11
NE	0.0	0.15	0.51	0.77	2.91	1.53	0.05	0.05	5.97
ENE	0.0	0.26	0.36	0.56	1.33	1.12	0.10	0.0	3.73
E	0.0	0.05	0.61	0.56	1.43	0.66	0.10	0.0	3.41
ESE	0.0	0.15	0.51	0.46	1.18	1.18	0.0	0.05	3.53
SE	0.0	0.36	0.66	1.07	1.38	1.99	0.56	0.15	6.17
SSE	0.0	0.05	0.61	0.41	1.84	2.15	1.12	1.12	7.30
S	0.05	0.31	0.46	0.46	1.79	1.58	1.23	0.66	6.54
SSW	0.0	0.15	0.46	0.56	1.64	1.48	0.87	0.31	5.47
SW	0.0	0.26	0.36	0.41	1.23	1.99	0.92	0.41	5.58
WSW	0.0	0.20	0.36	0.31	0.41	0.92	1.02	0.82	4.04
W	0.0	0.10	0.20	0.31	0.92	0.92	0.87	0.41	3.73
WNW	0.0	0.0	0.36	0.41	1.64	1.89	1.53	0.46	6.29
NW	0.05	0.20	0.72	0.61	2.10	3.17	1.69	0.77	9.31
NNW	0.0	0.20	0.26	0.61	3.22	2.71	1.43	0.15	8.58
SUBTOTAL	0.10	2.79	7.15	9.19	30.84	31.62	12.82	5.41	99.92

TOTAL HOURS OF VALID WIND OBSERVATIONS 1956
 TOTAL HOURS OF OBSERVATIONS 2016
 RECOVERABILITY PERCENTAGE 97.0
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 13.1 MPH

BFN-16

TABLE 2.3-33

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

MARCH (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.14	0.23	0.41	1.04	1.99	1.27	0.05	5.13
NNE	0.0	0.14	0.23	0.27	2.08	2.35	0.41	0.0	5.48
NE	0.05	0.09	0.18	0.54	1.90	1.90	0.50	0.0	5.16
ENE	0.0	0.14	0.23	0.09	1.00	0.81	0.23	0.0	2.50
E	0.0	0.05	0.18	0.23	0.68	0.23	0.23	0.0	1.37
ESE	0.0	0.14	0.27	0.36	1.40	1.36	0.59	0.32	4.44
SE	0.0	0.05	0.59	1.09	2.63	2.81	1.54	2.94	11.65
SSE	0.0	0.14	0.72	0.81	2.81	2.49	1.49	2.49	10.95
S	0.0	0.14	0.27	0.72	1.63	4.03	2.04	0.86	9.69
SSW	0.0	0.14	0.36	0.32	1.67	3.62	1.95	0.32	8.38
SW	0.0	0.05	0.59	0.45	1.18	1.36	0.41	0.32	4.36
WSW	0.0	0.27	0.45	0.50	0.91	2.08	0.77	0.27	5.25
W	0.0	0.0	0.54	0.41	1.67	1.40	0.91	0.45	5.38
WNW	0.0	0.09	0.27	0.41	1.72	2.90	1.22	0.23	6.84
NW	0.0	0.23	0.23	0.77	2.13	3.44	0.91	0.45	8.16
NNW	0.0	0.32	0.09	0.23	1.18	2.44	1.04	0.05	5.35
SUBTOTAL	0.05	2.13	5.43	7.61	25.63	35.21	15.28	8.75	100.09

TOTAL HOURS OF VALID WIND OBSERVATIONS 2209
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.0
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 14.6 MPH

BFN-16

TABLE 2.3-34

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

APRIL (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.05	0.19	0.19	0.47	1.40	1.45	0.28	0.19	4.22
NNE	0.0	0.14	0.09	0.47	1.31	1.87	0.47	0.0	4.35
NE	0.0	0.19	0.37	0.70	2.80	2.19	0.75	0.05	7.05
ENE	0.0	0.05	0.23	0.19	1.59	1.31	0.42	0.05	3.84
E	0.0	0.09	0.47	0.65	1.17	0.37	0.65	0.09	2.84
ESE	0.0	0.37	0.75	1.07	1.73	0.56	0.61	0.05	5.14
SE	0.0	0.47	1.96	1.35	2.80	2.47	2.33	0.79	12.17
SSE	0.0	0.47	1.45	0.93	2.29	2.01	1.59	0.84	9.58
S	0.05	0.61	0.98	0.89	1.49	1.96	1.63	0.33	7.94
SSW	0.0	0.19	0.65	0.65	1.68	1.87	2.33	0.23	7.60
SW	0.0	0.47	0.75	0.79	1.03	2.38	1.26	0.09	6.77
WSW	0.0	0.23	0.51	0.42	0.93	1.73	0.98	0.0	4.80
W	0.0	0.05	0.37	0.47	1.35	1.31	0.75	0.84	5.14
WNW	0.0	0.19	0.47	0.51	2.43	1.35	1.12	0.37	6.44
NW	0.0	0.14	0.28	0.51	2.10	2.10	1.54	0.19	6.86
NNW	0.0	0.19	0.23	0.33	1.12	2.57	0.84	0.0	5.28
SUBTOTAL	0.10	4.04	9.75	10.40	27.22	27.50	16.99	4.02	100.02

TOTAL HOURS OF VALID WIND OBSERVATIONS 2142
 TOTAL HOURS OF OBSERVATIONS 2160
 RECOVERABILITY PERCENTAGE 99.2
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 12.9 MPH

BFN-16

TABLE 2.3-35

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

MAY (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.18	0.36	0.68	2.17	1.13	0.23	0.0	4.75
NNE	0.0	0.14	0.36	0.32	2.48	2.80	0.50	0.0	6.60
NE	0.0	0.36	0.23	0.41	1.94	1.31	1.04	0.0	5.29
ENE	0.0	0.23	0.36	0.27	0.95	0.63	0.59	0.0	3.03
E	0.0	0.45	0.81	0.59	1.49	0.68	0.09	0.0	4.11
ESE	0.0	0.36	0.45	0.81	2.98	1.99	0.36	0.05	7.00
SE	0.0	0.36	1.58	2.03	3.48	4.47	0.50	0.05	12.47
SSE	0.0	0.45	1.58	1.45	2.30	1.81	1.08	0.14	8.81
S	0.09	0.59	1.08	1.08	3.03	2.03	1.22	0.18	9.30
SSW	0.0	0.50	0.99	0.95	1.63	1.81	0.32	0.18	6.38
SW	0.05	0.54	0.90	0.54	2.26	2.26	0.45	0.09	7.09
WSW	0.0	0.18	0.77	1.40	1.13	1.04	0.27	0.0	4.79
W	0.05	0.32	0.50	1.13	1.94	0.72	0.50	0.18	5.34
WNW	0.0	0.27	0.45	0.95	2.35	0.86	0.54	0.54	5.96
NW	0.0	0.09	0.77	0.77	1.76	1.08	0.45	0.09	5.01
NNW	0.0	0.41	0.45	0.32	1.26	0.95	0.63	0.09	4.11
SUBTOTAL	0.19	5.43	11.64	13.70	33.15	25.57	8.77	1.59	100.04

TOTAL HOURS OF VALID WIND OBSERVATIONS 2214
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.2
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 10.9 MPH

BFN-16

TABLE 2.3-36

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

JUNE (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.05	0.23	0.19	0.65	2.71	2.38	1.03	0.14	7.38
NNE	0.0	0.14	0.19	0.37	2.24	2.06	0.79	0.05	5.84
NE	0.0	0.09	0.42	0.47	1.36	1.31	0.56	0.0	4.21
ENE	0.05	0.05	0.19	0.33	0.98	0.75	0.23	0.0	2.58
E	0.05	0.37	0.47	0.47	0.51	0.09	0.0	0.0	1.96
ESE	0.0	0.37	0.56	0.70	0.93	0.65	0.0	0.0	3.21
SE	0.05	0.47	1.68	1.50	3.32	2.62	0.23	0.0	9.87
SSE	0.0	0.47	1.36	1.50	2.38	1.68	0.09	0.0	7.48
S	0.0	0.70	1.68	1.36	2.71	2.10	0.23	0.0	8.78
SSW	0.0	0.37	1.17	0.98	2.01	1.96	0.33	0.0	6.82
SW	0.0	1.07	1.36	1.40	2.85	1.64	0.28	0.0	8.60
WSW	0.0	0.61	1.17	1.07	2.34	2.20	0.14	0.0	7.53
W	0.0	0.37	1.45	1.54	3.79	1.82	0.0	0.0	8.97
WNW	0.05	0.19	0.70	1.59	3.69	0.89	0.19	0.0	7.30
NW	0.05	0.42	0.79	1.03	2.43	1.03	0.05	0.0	5.80
NNW	0.0	0.28	0.28	0.56	1.68	0.84	0.05	0.0	3.69
SUBTOTAL	0.30	6.20	13.66	15.52	35.93	24.02	4.20	0.19	100.02

TOTAL HOURS OF VALID WIND OBSERVATIONS 2140
 TOTAL HOURS OF OBSERVATIONS 2160
 RECOVERABILITY PERCENTAGE 99.1
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 9.8 MPH

BFN-16

TABLE 2.3-37

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

JULY (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.18	0.32	0.59	1.68	0.36	0.0	0.0	3.13
NNE	0.0	0.05	0.23	0.45	2.45	2.91	0.27	0.09	6.45
NE	0.0	0.09	0.05	0.59	1.45	2.36	0.14	0.0	4.68
ENE	0.0	0.09	0.36	0.41	1.18	1.09	0.41	0.0	3.54
E	0.0	0.09	0.32	0.50	1.14	0.45	0.23	0.05	2.78
ESE	0.05	0.23	0.64	0.45	1.91	2.27	0.05	0.09	5.69
SE	0.0	0.36	1.95	1.41	2.95	3.00	1.14	0.27	11.08
SSE	0.0	0.45	1.91	1.36	3.23	2.64	0.73	0.09	10.41
S	0.0	0.55	1.32	2.09	3.73	2.04	0.09	0.23	10.05
SSW	0.0	0.59	0.77	1.04	2.54	1.77	0.23	0.09	7.03
SW	0.0	0.45	0.95	0.95	2.82	2.32	0.36	0.05	7.90
WSW	0.0	0.41	1.86	1.95	2.41	0.95	0.18	0.0	7.76
W	0.0	0.18	1.73	1.86	3.95	0.82	0.05	0.0	8.59
WNW	0.0	0.18	0.45	0.91	2.50	0.55	0.09	0.0	4.68
NW	0.0	0.14	0.23	0.73	1.82	0.59	0.14	0.0	3.65
NNW	0.05	0.14	0.23	0.41	1.23	0.50	0.05	0.0	2.61
SUBTOTAL	0.10	4.18	13.32	15.70	36.99	24.62	4.16	0.96	100.03

TOTAL HOURS OF VALID WIND OBSERVATIONS 2201
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 98.6
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 10.2 MPH

BFN-16

TABLE 2.3-38

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

AUGUST (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.09	0.77	0.59	1.67	1.44	0.14	0.0	4.70
NNE	0.0	0.14	0.63	0.59	2.26	2.07	0.23	0.05	5.97
NE	0.0	0.09	0.50	0.36	2.07	1.76	0.54	0.0	5.32
ENE	0.05	0.23	0.36	0.36	0.86	0.77	0.18	0.0	2.81
E	0.0	0.50	0.72	0.41	0.59	0.14	0.05	0.0	2.41
ESE	0.0	0.18	0.54	0.45	1.22	1.22	0.14	0.0	3.75
SE	0.09	0.41	2.17	1.89	5.19	2.80	0.50	0.0	13.05
SSE	0.05	0.81	2.80	3.38	5.37	2.93	0.27	0.0	15.61
S	0.0	0.45	1.85	2.39	4.60	2.21	0.18	0.05	11.73
SSW	0.0	0.41	1.53	1.49	2.71	1.17	0.41	0.05	7.77
SW	0.09	0.81	1.17	1.31	2.93	1.67	0.23	0.0	8.21
WSW	0.09	0.36	1.22	0.54	1.35	0.50	0.0	0.0	4.06
W	0.05	0.41	1.26	1.94	1.31	0.23	0.0	0.0	5.20
WNW	0.05	0.14	0.72	0.68	1.89	0.09	0.09	0.0	3.66
NW	0.0	0.23	0.59	1.08	1.17	0.14	0.14	0.0	3.35
NNW	0.0	0.18	0.45	0.41	0.90	0.50	0.05	0.0	2.49
SUBTOTAL	0.47	5.44	17.28	17.87	36.09	19.64	3.15	0.15	100.09

TOTAL HOURS OF VALID WIND OBSERVATIONS 2217
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.3
 TOTAL HOURS CALM 1

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 9.1 MPH

BFN-16

TABLE 2.3-39

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

SEPT. (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.09	0.19	0.42	1.13	2.92	3.82	0.71	0.14	9.42
NNE	0.0	0.14	0.47	1.04	2.83	3.58	1.41	0.28	9.75
NE	0.0	0.14	0.33	1.08	2.97	4.05	1.08	0.09	9.74
ENE	0.0	0.19	0.24	0.52	1.70	1.79	1.13	0.42	5.99
E	0.0	0.19	0.28	0.42	1.60	1.46	0.38	0.09	4.42
ESE	0.0	0.19	0.52	0.71	3.11	3.25	0.61	0.0	8.39
SE	0.0	0.38	1.55	1.46	6.08	4.62	0.33	0.19	14.61
SSE	0.0	0.57	1.79	1.84	5.32	2.21	0.38	0.42	12.53
S	0.0	0.09	1.08	0.99	2.36	2.21	0.19	0.14	7.06
SSW	0.0	0.47	0.33	0.47	1.08	1.32	0.52	0.0	4.19
SW	0.0	0.09	0.52	0.28	0.24	0.57	0.19	0.0	1.89
WSW	0.0	0.19	0.38	0.33	0.66	0.14	0.05	0.0	1.75
W	0.0	0.09	0.47	0.24	0.85	0.14	0.14	0.05	1.98
WNW	0.0	0.19	0.38	0.28	0.89	0.09	0.05	0.05	1.93
NW	0.0	0.05	0.42	0.52	1.65	0.38	0.33	0.05	3.40
NNW	0.0	0.0	0.33	0.24	1.51	0.71	0.09	0.09	2.97
SUBTOTAL	0.09	3.16	9.51	11.55	35.77	30.34	7.59	2.01	100.02

TOTAL HOURS OF VALID WIND OBSERVATIONS 2123
 TOTAL HOURS OF OBSERVATIONS 2160
 RECOVERABILITY PERCENTAGE 98.3
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 11.5 MPH

BFN-16

TABLE 2.3-40

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

OCTOBER (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.22	0.36	0.36	2.29	4.85	1.21	0.0	9.29
NNE	0.0	0.13	0.36	0.67	2.07	3.86	1.08	0.0	8.17
NE	0.0	0.04	0.40	0.58	1.93	1.48	0.76	0.04	5.23
ENE	0.0	0.09	0.22	0.31	1.12	0.81	0.13	0.04	2.72
E	0.0	0.18	0.36	0.27	0.72	0.27	0.0	0.0	1.80
ESE	0.0	0.18	0.67	0.94	2.29	1.66	0.90	0.22	6.86
SE	0.04	0.72	1.03	1.57	4.63	3.86	2.02	1.30	15.17
SSE	0.0	0.31	0.49	0.63	2.88	2.25	1.12	0.13	7.81
S	0.0	0.18	0.40	0.40	2.16	2.61	1.03	0.27	7.05
SSW	0.0	0.22	0.31	0.40	1.84	2.47	0.81	0.0	6.05
SW	0.0	0.22	0.36	0.58	1.17	1.84	1.08	0.18	5.43
WSW	0.0	0.13	0.45	0.31	0.54	0.45	0.13	0.04	2.05
W	0.04	0.22	0.31	0.58	1.21	0.94	0.22	0.0	3.52
WNW	0.0	0.27	0.49	1.12	1.89	1.39	0.27	0.0	5.43
NW	0.0	0.22	0.27	0.49	1.93	2.47	0.72	0.13	6.23
NNW	0.0	0.13	0.22	0.36	1.48	3.73	0.99	0.09	7.00
SUBTOTAL	0.08	3.46	6.70	9.57	30.15	34.94	12.47	2.44	99.81

TOTAL HOURS OF VALID WIND OBSERVATIONS 2226
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 99.7
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 12.7 MPH

BFN-16

TABLE 2.3-41

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

NOVEMBER (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.09	0.23	0.65	0.79	2.34	3.55	0.47	0.0	8.12
NNE	0.05	0.14	0.33	0.89	3.50	3.22	0.33	0.0	8.46
NE	0.0	0.09	0.42	0.93	2.66	2.90	1.17	0.0	8.17
ENE	0.09	0.28	0.37	0.65	1.17	1.03	0.42	0.0	4.01
E	0.0	0.23	0.51	0.23	1.12	0.65	0.05	0.0	2.79
ESE	0.05	0.19	0.75	0.47	1.45	1.82	1.26	0.14	6.13
SE	0.0	0.37	0.84	0.98	2.15	3.04	2.48	0.75	10.61
SSE	0.05	0.37	0.75	0.75	2.76	3.36	2.62	0.56	11.22
S	0.0	0.47	0.84	1.03	2.71	2.29	1.36	1.03	9.73
SSW	0.0	0.14	0.51	0.75	1.12	0.84	0.0	0.37	3.73
SW	0.0	0.28	0.23	0.51	0.47	0.89	0.14	0.28	2.80
WSW	0.0	0.19	0.42	0.37	1.26	0.89	0.14	0.0	3.27
W	0.09	0.23	0.33	0.37	0.75	0.79	0.19	0.51	3.26
WNW	0.0	0.28	0.42	0.79	1.31	1.45	0.98	0.19	5.42
NW	0.05	0.28	0.61	0.51	1.40	1.64	1.07	0.23	5.79
NNW	0.09	0.33	0.42	0.47	2.10	2.38	0.56	0.05	6.40
SUBTOTAL	0.56	4.10	8.40	10.49	28.27	30.74	13.24	4.11	99.91

TOTAL HOURS OF VALID WIND OBSERVATIONS 2140
 TOTAL HOURS OF OBSERVATIONS 2160
 RECOVERABILITY PERCENTAGE 99.1
 TOTAL HOURS CALM 1

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 12.5 MPH

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TABLE 2.3-42

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY DIRECTION

DISREGARDING STABILITY CLASS

DECEMBER (77, 78, 79)

<u>WIND DIRECTION</u>	<u>WIND SPEED (MPH)</u>								<u>TOTAL</u>
	<u>0.6-1.4</u>	<u>1.5-3.4</u>	<u>3.5-5.4</u>	<u>5.5-7.4</u>	<u>7.5-12.4</u>	<u>12.5-18.4</u>	<u>18.5-24.4</u>	<u>>=24.5</u>	
N	0.0	0.09	0.05	0.19	1.44	3.35	0.79	0.19	6.10
NNE	0.0	0.05	0.19	0.28	1.44	1.91	0.19	0.0	4.06
NE	0.0	0.0	0.37	0.37	1.72	0.65	0.28	0.0	3.39
ENE	0.0	0.05	0.33	0.23	0.84	0.79	0.19	0.0	2.43
E	0.0	0.19	0.47	0.51	0.65	0.14	0.51	0.0	1.96
ESE	0.0	0.33	0.37	0.56	1.35	1.68	0.19	0.09	4.57
SE	0.05	0.23	0.70	0.74	1.63	3.77	4.19	0.65	11.96
SSE	0.0	0.28	0.51	0.65	2.75	5.26	2.51	1.07	13.03
S	0.0	0.47	0.51	0.56	2.14	4.00	2.61	1.40	11.69
SSW	0.0	0.37	0.42	0.47	2.23	2.37	0.93	0.74	7.53
SW	0.05	0.19	0.47	0.65	1.49	1.91	0.61	0.09	5.46
WSW	0.0	0.05	0.28	0.51	1.12	1.35	0.28	0.51	4.10
W	0.0	0.19	0.37	0.33	1.68	1.91	0.51	0.28	5.27
WNW	0.05	0.14	0.33	0.33	1.35	2.70	1.21	0.37	6.48
NW	0.0	0.05	0.33	0.51	0.98	2.42	1.16	0.74	6.19
NNW	0.0	0.09	0.28	0.37	1.21	2.61	1.02	0.23	5.81
SUBTOTAL	0.15	2.77	5.98	7.26	24.02	36.82	16.67	6.36	100.03

TOTAL HOURS OF VALID WIND OBSERVATIONS 2148
 TOTAL HOURS OF OBSERVATIONS 2232
 RECOVERABILITY PERCENTAGE 96.2
 TOTAL HOURS CALM 0

ALL COLUMNS AND CALM TOTAL 100 PERCENT OF JOINT VALID OBSERVATIONS

METEOROLOGICAL FACILITY: BROWNS FERRY NUCLEAR PLANT
 WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

MEAN WIND SPEED = 14.2 MPH

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TABLE 2.3-43

(Sheet 1)

WIND DIRECTION PERSISTENCE DATA

10 M Level

DISREGARDING STABILITY

(JAN 1, 77 - DEC 31, 79)

LOST RECORD (%) = 1.79
PERSISTENCE
(HOURS)

	WIND DIRECTION																ACC. TOTAL	ACC. FREQUENCY		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL		
2	177	164	105	113	93	118	181	202	149	70	35	102	129	96	91	128	1	1954	4968	100.00
3	92	91	51	35	43	48	131	93	90	25	23	53	63	45	47	61	0	991	3014	60.67
4	50	54	31	24	26	35	90	67	65	5	6	24	26	29	37	36	0	605	2023	40.72
5	31	37	20	17	15	18	79	56	26	1	1	17	22	18	27	32	0	417	1418	28.54
6	39	27	11	8	14	17	49	26	36	0	1	6	12	17	13	29	0	305	1001	20.15
7	12	21	12	2	6	10	29	20	23	0	2	9	6	9	9	15	0	185	696	14.01
8	7	11	8	2	7	5	26	10	7	1	1	3	7	8	9	13	0	125	511	10.29
9	6	5	5	3	3	4	24	4	9	0	0	5	4	9	8	10	0	99	386	7.77
10	4	5	6	0	5	3	13	4	5	0	0	1	1	4	4	6	0	61	287	5.78
11	3	9	3	0	2	1	13	3	2	0	0	0	4	2	3	6	0	51	226	4.55
12	2	7	3	0	1	0	11	4	3	0	0	0	1	2	3	7	0	44	175	3.52
13	3	11	0	2	1	3	5	2	3	0	0	0	1	1	1	1	0	34	131	2.64
14	1	0	2	0	0	1	5	2	0	0	0	1	1	0	2	2	0	17	97	1.95
15	0	5	0	0	0	0	6	0	2	0	0	1	2	3	0	1	0	20	80	1.61
16	2	1	0	0	0	0	2	2	1	0	0	0	0	1	0	3	0	12	60	1.21
17	2	3	0	0	0	0	3	0	0	0	0	0	0	1	0	1	0	10	48	0.97
18	0	2	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	6	38	0.76
19	0	0	0	0	0	0	3	0	3	0	0	0	0	1	0	0	0	7	32	0.64
20	1	1	0	0	0	0	3	0	1	0	0	0	0	0	1	0	0	7	25	0.50
21	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	18	0.36
22	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	6	17	0.34
23	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2	11	0.22
24	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	9	0.18
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0.16
26	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0.16
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.14
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0.14
29	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	7	0.14
30	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	6	0.12

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TABLE 2.3-43 (Continued)

(Sheet 2)

WIND DIRECTION PERSISTENCE DATA

10 M Level

DISREGARDING STABILITY

(JAN 1, 77 - DEC 31, 79)

PERSISTENCE (HOURS)	WIND DIRECTION																	TOTAL	ACC. TOTAL	ACC. FREQUENCY	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM				
31	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0.10
32	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2	4	0.08
>32	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2	0.04
TOTAL	432	458	257	207	216	263	680	495	429	102	69	222	281	246	255	355	1	4968			
MAXIMUM PERSISTENCE (HOURS)	20	31	14	18	13	14	36	16	32	8	8	15	23	19	20	32	2				
50.0%	3	3	3	2	3	3	4	3	3	2	2	3	3	3	3	3	2				
80.0%	5	6	5	4	5	5	7	5	6	3	3	4	5	6	6	6	2				
90.0%	6	10	8	5	7	7	10	7	7	3	4	6	7	8	8	9	2				
99.0%	16	20	12	13	11	13	20	13	19	5	8	10	15	16	14	22	2				
99.9%	20	31	14	18	13	14	36	16	32	8	8	15	23	19	20	32	2				

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
WIND SPEED AND DIRECTION MEASURED AT THE 10.00 METER LEVEL

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TABLE 2.3-44 (Continued)

(Sheet 2)

WIND DIRECTION PERSISTENCE DATA

93 M LEVEL

DISREGARDING STABILITY

(JAN 1, 77 - DEC 31, 79)

PERSISTENCE (HOURS)	WIND DIRECTION																	ACC.	ACC.	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL	TOTAL	FREQUENCY
30	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	6	0.12
31	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	5	0.10
32	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	4	0.08
>32	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3	3	0.06
TOTAL	308	330	297	196	151	270	537	523	433	330	283	229	275	314	323	271	0	5070		
MAXIMUM PERSISTENCE (HOURS)	24	28	17	11	11	26	36	38	32	16	18	15	22	21	24	22	1			
50.0%	3	3	3	3	2	3	4	3	3	3	3	3	3	3	3	3	1			
80.0%	6	6	6	5	4	6	7	6	6	5	5	5	5	6	6	6	1			
90.0%	10	9	8	6	5	9	10	8	9	7	7	6	7	7	9	8	1			
99.0%	22	21	16	10	8	16	26	19	17	13	14	12	14	16	19	16	1			
99.9%	24	28	17	11	11	26	36	38	32	16	18	15	22	21	24	22	1			

METEOROLOGICAL FACILITY: MET FACILITY LOCATED ABOUT 0.5 MI ESE OF BROWNS FERRY NUCLEAR PLANT
WIND SPEED AND DIRECTION MEASURED AT THE 93.00 METER LEVEL

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Table 2.3-45

TEMPERATURE DATA

DECATUR, ALABAMA
1879 - 1958

<u>Month</u>	<u>Avg. Temp. (°F)</u>	<u>Avg. Max. Temp. (°F)</u>	<u>Avg. Min. Temp. (°F)</u>	<u>Extreme Max. Temp. (°F)</u>	<u>Extreme Min. Temp. (°F)</u>
December	43.7	53.0	34.3	78	1
January	42.9	52.3	33.4	79	-5
February	44.6	54.8	34.4	84	-12
Winter	43.7	53.4	34.0	--	--
March	53.1	64.1	42.1	93	4
April	61.8	73.2	50.3	92	26
May	70.4	81.8	59.0	100	34
Spring	61.8	73.0	50.4	--	--
June	78.2	89.3	67.1	108	44
July	80.7	91.2	70.1	107	52
August	79.9	90.6	69.1	107	52
Summer	79.6	90.4	68.8	--	--
September	74.6	85.9	63.3	104	37
October	63.0	75.2	50.8	100	26
November	51.2	62.3	40.1	86	3
Fall	62.9	74.5	51.4	--	--
Annual	62.0	72.8	51.2	--	--

"The Climate of Decatur, Alabama" (1879-1958), Long, Arthur R., U.S. Weather Bureau State Climatologist for Alabama, Weather Bureau Office, Montgomery, Alabama, July 1959.

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Table 2.3-46

TEMPERATURE DATA

BROWNS FERRY NUCLEAR PLANT
January 1, 1977 - December 31, 1979

<u>Month</u>	<u>Avg. Temp. (°F)</u>	<u>Avg. Max. Temp. (°F)</u>	<u>Avg. Min. Temp. (°F)</u>	<u>Extreme Max. Temp. (°F)</u>	<u>Extreme Min. Temp. (°F)</u>
December	42.9	50.9	35.0	73	15
January	30.5	36.5	23.7	60	-1
February	38.0	46.1	30.3	75	13
Winter	37.1	44.5	29.7	--	--
March	52.0	60.2	43.9	81	18
April	62.4	70.9	53.7	83	38
May	68.7	76.3	60.8	88	44
Spring	61.0	69.1	52.8	--	--
June	75.8	83.6	68.0	94	54
July	78.8	86.6	72.0	96	64
August	77.7	86.0	70.4	93	61
Summer	77.4	85.4	70.1	--	--
September	72.3	79.9	65.5	92	54
October	59.3	68.9	50.0	83	36
November	53.1	60.8	45.4	75	22
Fall	61.6	69.9	53.6	--	--
Annual	59.3	67.2	51.6	--	--

Temperature data measurements at about 33 feet. Meteorological facility located about 0.5 miles from Browns Ferry Nuclear Plant.

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Table 2.3-47
PRECIPITATION DATA

HUNTSVILLE, ALABAMA

<u>Month</u>	<u>1968-1980 Average Number of Days With 0.01 Inch or More</u>	<u>1941-1970 Normals (Inches)</u>	<u>1968-1980 Extreme Monthly Max. (Inches)</u>	<u>1968-1980 Extreme Monthly Min. (Inches)</u>	<u>1968-1980 Maximum In 24-Hours (Inches)</u>
December	11	5.4	9.9	0.9	5.8
January	12	5.1	10.5	1.7	3.0
February	9	5.2	9.6	0.6	3.9
Winter	32	15.7			
March	13	5.8	17.0	3.0	7.7
April	9	4.8	9.1	1.8	3.6
May	11	3.9	9.1	3.1	5.7
Spring	33	14.5			
June	9	4.0	7.3	0.8	4.5
July	11	4.9	9.4	1.9	4.5
August	9	3.5	4.0	0.9	2.5
Summer	29	12.4			
September	9	3.3	9.8	1.8	4.0
October	6	2.6	12.1	0.8	6.0
November	3.9	11.5	1.8	3.3	
Fall	24	9.8			
Annual	119	52.2			

"Local Climatological Data," Annual Summary with Comparative Data, Huntsville, Alabama, NOAA, National Climatic Center, Asheville, NC, 1980.

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Table 2.3-48
PRECIPITATION DATA

January 1, 1977 - December 31, 1979

<u>Month</u>	<u>Average Number of Days With 0.01 Inch or More</u>	<u>Monthly Average (Inches)</u>	<u>Extreme Monthly Max. (Inches)</u>	<u>Extreme Monthly Min. (Inches)</u>	<u>Maximum In 24-Hours (Inches)</u>
December	9	3.6	6.8	1.9	1.3
January		13	3.8	5.8	2.7
February		6	2.9	4.9	0.2
Winter		28	10.3		
March		12	5.5	8.5	3.6
April		9	5.2	7.8	1.2
May		11	3.7	4.9	1.6
Spring		32	14.4		
June		10	3.3	4.0	2.3
July		11	3.2	4.5	2.3
August		10	3.9	7.9	1.5
Summer		31	10.4		
September		10	6.2	8.7	1.7
October		5	2.6	3.9	0.7
November	11	6.6	8.6	3.4	3.1
Fall		26	15.4		
Annual		117	50.5		

Meteorological facility located about 0.5 miles from Browns Ferry Nuclear Plant.

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Table 2.3-49

SNOWFALL DATA

DECATUR, ALABAMA

	<u>Jan.</u>	<u>Feb.</u> <u>Annual</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>	
Average snowfall (inches)	0.9	0.8	0.2	T	0	0	0	0	0	T	0.2	0.6	2.7
Average No. Days (trace or more)	1	1	1	*	0	0	0	0	0	*	*	1	6
Average No. Days (0.1 inch or more)	*	*	*	0	0	0	0	0	0	0	*	*	1

T - trace (not measurable)

* Less than one day

"The Climate of Decatur, Alabama" (1879-1958), Long, Arthur R., U.S. Weather Bureau State Climatologist for Alabama, Weather Bureau Office, Montgomery, Alabama, July 1959.