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1.0 RECORD OF REVISION

Revision No.	Date	Reason for Revision
0	October - 2000	Moved previous ODCM-07.01 and ODCM-08.01 tables of meterological data to this document.
1	November - 2001	Typo, replaced missing M in Monticello on Page 1 of Table of Content.

Table 1 Monticello Nuclear Generating Plant Site Meteorology - Stability Class A, Elevation 10 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

Wind Speed (mph) at 10 Meter Level

Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	4	18	63	30	7	0	122
NNE	2	20	30	14	2	0	68
NE	1	13	21	26	2	2	65
NNE	1	14	16	4	0	0	35
E	0	28	40	12	0	0	80
ESE	3	33	50	5	6	0	97
SE	2	26	50	35	12	3	128
SSE	8	46	96	122	11	0	283
S	9	36	68	117	42	3	275
SSW	5	63	94	58	20	4	244
SW	4	35	64	32	5	3	143
WSW	3	25	74	26	0	0	128
W	0	29	47	18	1	0	95
WNW	4	34	73	79	14	0	204
NW	3	29	58	61	3	0	154
NNW	6	29	109	67	13	0	224
VAR	0	0	0	0	0	0	0

Total Hours This Class:	2350
Hours of Calm This Class:	5
Percent of All Data This Class:	14.27

Table 2 Monticello Nuclear Generating Plant Site Meteorology - Stability Class B, Elevation 10 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 10 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	2	14	19	4	0	1	40
NNE	4	10	8	5	0	0	27
NE	0	6	3	2	0	0	11
ENE	1	11	7	2	0	0	21
E	0	13	4	0	0	0	17
ESE	1	15	10	3	3	0	32
SE	0	9	9	9	0	0	27
SSE	2	12	9	9	0	0	32
S	2	13	21	7	1	0	44
SSW	1	22	19	4	0	0	46
SW	0	11	10	3	0	0	24
WSW	1	12	11	3	0	0	27
W	0	12	19	8	2	1	42
WNW	0	11	20	21	5	1	58
NW	1	8	22	13	3	0	47
NNW	1	8	40	26	4	1	80
VAR	0	0	0	0	0	0	0

Total Hours This Class:	575
Hours of Calm This Class:	0
Percent of All Data This Class:	3.49

Table 3 Monticello Nuclear Generating Plant Site Meteorology - Stability Class C, Elevation 10 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 10 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	0	12	16	8	0	0	36
NNE	3	13	13	4	1	0	34
NE	2	10	11	5	2	0	30
ENE	1	19	4	2	0	0	26
E	0	8	10	2	0	0	20
ESE	2	14	12	5	2	0	35
SE	0	12	16	9	0	0	37
SSE	0	10	21	8	0	0	39
S	6	12	28	18	3	0	67
SSW	3	16	12	3	2	1	37
SW	3	11	14	3	1	0	32
WSW	2	5	11	2	0	0	20
W	4	22	19	5	1	0	51
WNW	4	23	38	19	3	0	87
NW	3	17	18	30	4	0	72
NNW	2	22	40	27	5	1	97
VAR	0	0	0	0	0	0	0

Total Hours This Class:	720
Hours of Calm This Class:	0
Percent of All Data This Class:	4.37

Table 4 Monticello Nuclear Generating Plant Site Meteorology - Stability Class D, Elevation 10 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 10 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	9	107	135	39	1	0	291
NNE	32	132	87	18	1	0	270
NE	37	129	116	50	3	0	335
ENE	43	153	66	30	1	0	293
E	29	125	64	27	0	0	245
ESE	28	107	148	60	4	0	347
SE	16	103	153	36	2	0	310
SSE	13	97	103	35	2	0	250
S	19	84	96	33	1	0	233
SSW	16	73	70	19	6	1	185
SW	19	58	52	10	4	0	143
WSW	14	69	63	14	2	1	163
W	16	79	98	33	3	5	234
WNW	13	112	262	159	25	2	573
NW	17	82	255	232	61	3	650
NNW	19	104	247	246	49	1	666
VAR	0	0	0	0	0	0	0

Total Hours This Class:	5198
Hours of Calm This Class:	10
Percent of All Data This Class:	31.56

Table 5 Monticello Nuclear Generating Plant Site Meteorology - Stability Class E, Elevation 10 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 10 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	20	98	57	6	0	0	181
NNE	43	81	35	2	0	0	161
NE	35	94	41	6	2	0	178
ENE	50	122	29	10	0	0	211
E	36	109	40	2	0	0	187
ESE	26	117	46	6	0	0	195
SE	19	111	136	18	2	0	286
SSE	20	95	116	33	1	0	265
S	22	84	144	43	1	0	294
SSW	22	72	99	25	9	0	227
SW	23	84	57	10	2	0	176
WSW	37	86	44	4	0	0	171
W	30	156	123	12	4	0	325
WNW	24	195	233	41	2	0	495
NW	20	133	247	84	0	0	484
NNW	25	145	217	38	1	0	426
VAR	0	0	0	0	0	0	0

Total Hours This Class:	4269
Hours of Calm This Class:	7
Percent of All Data This Class:	25.92

Table 6 Monticello Nuclear Generating Plant Site Meteorology - Stability Class F, Elevation 10 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 10 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	30	62	3	0	0	0	95
NNE	37	54	0	0	0	0	91
NE	29	29	0	0	0	0	58
ENE	32	28	0	0	0	0	60
E	32	59	5	0	0	0	96
ESE	25	97	11	0	0	0	133
SE	22	83	19	0	0	0	124
SSE	16	122	12	0	0	0	150
S	24	93	31	3	0	0	151
SSW	27	67	14	0	0	0	108
SW	27	52	7	0	0	0	86
WSW	52	68	8	0	0	0	128
W	51	91	14	0	0	0	156
WNW	28	68	9	0	0	0	105
NW	36	67	12	0	0	0	115
NNW	30	119	29	0	0	0	178
VAR	0	0	0	0	0	0	0

Total Hours This Class:	1847
Hours of Calm This Class:	13
Percent of All Data This Class:	11.21

Table 7 Monticello Nuclear Generating Plant Site Meteorology - Stability Class G, Elevation 10 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 10 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	45	31	0	0	0	0	76
NNE	40	16	0	0	0	0	56
NE	33	12	0	0	0	0	45
ENE	31	5	0	0	0	0	36
E	46	18	0	0	0	0	64
ESE	47	54	2	0	0	0	103
SE	52	34	1	1	0	0	88
SSE	67	111	3	6	0	0	187
S	64	109	23	2	0	0	198
SSW	61	65	10	2	0	0	138
SW	43	32	1	0	0	0	76
WSW	77	37	0	0	0	0	114
W	53	31	0	0	0	0	84
WNW	37	13	2	0	0	0	52
NW	49	15	3	4	0	0	71
NNW	47	48	2	0	0	0	97
VAR	0	0	0	0	0	0	0

Total Hours This Class:	1512
Hours of Calm This Class:	27
Percent of All Data This Class:	9.18

Table 8 Monticello Nuclear Generating Plant Site Meteorology - All Classes Combined
Elevation 10 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 10 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	110	342	293	87	8	1	841
NNE	161	326	173	43	4	0	707
NE	137	293	192	89	9	2	722
ENE	159	352	122	48	1	0	682
E	143	360	163	43	0	0	709
ESE	132	437	279	79	15	0	942
SE	111	378	384	108	16	3	1000
SSE	126	493	360	213	14	0	1206
S	146	431	411	223	48	3	1262
SSW	135	378	318	111	37	6	985
SW	119	283	205	58	12	3	680
WSW	186	302	211	49	2	1	751
W	154	420	320	76	11	6	987
WNW	110	456	637	319	49	3	1574
NW	129	351	615	424	71	3	1593
NNW	130	475	684	404	72	3	1768
VAR	0	0	0	0	0	0	0

Table 8 Monticello Nuclear Generating Plant Site Meteorology - All Classes Combined Elevation 10 Meters (cont'd)

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

Data Recovery for the Period

Total Hours:	17520
Hours of Calm:	62
Hours of Bad Data:	1049
Percent Data Recovery:	94.01

Percent Acceptable Observations in each Stability Class

Class A	14.27
Class B	3.49
Class C	4.37
Class D	31.56
Class E	25.92
Class F	11.21
Class G	9.18

Average Wind Speed for each Wind Category

1 to 3 MPH	2.5
4 to 7 MPH	5.5
8 to 12 MPH	9.7
13 to 18 MPH	14.7
19 to 24 MPH	20.6
Above 24 MPH	27.2

Table 9 Monticello Nuclear Generating Plant Site Meteorology - Stability Class A, Elevation 100 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 100 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	0	1	2	10	1	0	14
NNE	0	1	1	1	0	0	3
NE	0	0	1	0	0	0	1
ENE	0	0	0	0	1	0	1
E	0	1	4	0	0	0	5
ESE	0	0	4	0	0	0	4
SE	0	0	4	8	0	6	18
SSE	0	1	5	42	36	15	99
S	0	1	3	28	35	12	79
SSW	0	1	10	37	53	39	140
SW	0	0	4	19	6	5	36
WSW	0	0	3	16	10	1	30
W	0	0	0	7	2	0	9
WNW	0	0	2	4	1	2	9
NW	0	0	3	6	6	3	18
NNW	0	0	1	14	4	0	19
VAR	0	0	0	0	0	0	0

Total Hours This Class:	489
Hours of Calm This Class:	4
Percent of All Data This Class:	2.95

Table 10 Monticello Nuclear Generating Plant Site Meteorology - Stability Class B, Elevation 100 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

Wind Speed (mph) at 100 Meter Level

Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	0	3	13	18	3	0	37
NNE	0	6	3	9	2	2	22
NE	0	1	7	6	0	0	14
ENE	0	2	3	7	2	0	14
E	0	2	15	1	0	0	18
ESE	0	5	17	3	0	2	27
SE	1	7	15	9	2	2	36
SSE	1	9	28	12	8	2	60
S	0	5	23	18	3	0	49
SSW	0	8	23	17	5	2	60
SW	0	7	18	8	5	1	39
WSW	0	7	8	14	2	1	32
W	0	4	8	18	5	0	35
WNW	0	4	12	17	7	6	46
NW	1	5	14	23	12	5	60
NNW	0	1	8	25	11	2	47
VAR	0	0	0	0	0	0	0

Total Hours This Class:	602
Hours of Calm This Class:	6
Percent of All Data This Class:	3.64

Table 11 Monticello Nuclear Generating Plant Site Meteorology - Stability Class C, Elevation 100 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

Wind Speed (mph) at 100 Meter Level

Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	3	9	26	25	13	2	78
NNE	2	12	14	14	8	2	52
NE	1	7	9	8	2	0	27
ENE	0	5	12	6	1	0	24
E	0	13	19	1	2	0	35
ESE	0	13	25	11	1	1	51
SE	2	17	12	8	4	0	43
SSE	0	26	38	19	10	2	95
S	0	15	23	13	7	4	62
SSW	0	28	33	23	11	2	97
SW	0	20	24	17	4	0	65
WSW	3	17	27	14	3	1	65
W	3	10	20	14	8	3	58
WNW	3	10	16	27	18	9	83
NW	2	8	22	38	26	10	106
NNW	2	3	16	42	19	8	90
VAR	0	0	0	0	0	0	0

Total Hours This Class:	1041
Hours of Calm This Class:	10
Percent of All Data This Class:	4.29

Table 12 Monticello Nuclear Generating Plant Site Meteorology - Stability Class D, Elevation 100 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

Wind Speed (mph) at 100 Meter Level

Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	11	51		95	181	130	82
NNE	11	41	106	120	50	12	340
NE	15	53	105	93	25	8	299
ENE	14	41	131	83	59	12	340
E	18	61	103	62	38	6	288
ESE	17	55	101	85	47	31	336
SE	13	57	108	152	68	23	421
SSE	9	63	119	148	71	17	427
S	16	61	95	122	61	8	363
SSW	14	61	85	120	46	34	360
SW	14	54	80	74	32	11	265
WSW	13	52	69	44	21	11	210
W	8	45	89	59	29	17	247
WNW	14	51	141	165	77	62	510
NW	7	50	170	366	312	143	1048
NNW	12	52	176	312	350	229	1131
VAR	0	0	0	0	0	0	0

Total Hours This Class:	7264
Hours of Calm This Class:	129
Percent of All Data This Class:	43.87

Table 13 Monticello Nuclear Generating Plant Site Meteorology - Stability Class E, Elevation 100 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

Wind Speed (mph) at 100 Meter Level

Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	4	17	59	99	82	11	272
NNE	7	18	37	68	32	3	165
NE	4	16	47	58	20	2	147
ENE	4	33	68	93	27	9	234
E	4	27	64	75	15	2	187
ESE	5	20	46	74	37	11	193
SE	10	23	63	97	58	3	254
SSE	5	22	58	94	105	16	300
S	5	13	57	140	97	20	332
SSW	2	25	49	115	125	22	338
SW	7	24	67	102	84	18	302
WSW	3	19	42	73	37	8	182
W	5	20	47	55	35	2	164
WNW	4	18	63	136	93	13	327
NW	6	15	71	172	141	12	417
NNW	3	27	86	244	198	17	575
VAR	0	0	0	0	0	0	0

Total Hours This Class: 4433
Hours of Calm This Class: 44
Percent of All Data This Class: 26.77

Table 14 Monticello Nuclear Generating Plant Site Meteorology - Stability Class F, Elevation 100 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 100 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	3	12	28	45	28	0	116
NNE	2	4	15	39	16	1	77
NE	4	7	23	49	17	1	101
ENE	1	7	19	40	6	3	76
E	4	10	26	15	3	0	58
ESE	8	16	28	31	14	2	99
SE	2	7	28	46	19	5	107
SSE	2	8	25	62	40	1	138
S	1	12	30	60	36	1	140
SSW	1	11	28	58	57	4	159
SW	3	14	19	75	33	2	146
WSW	5	6	22	28	29	0	90
W	1	14	22	27	16	0	80
WNW	4	10	44	49	27	1	135
NW	4	12	37	87	29	0	169
NNW	4	14	38	51	21	1	129
VAR	0	0	0	0	0	0	0

Total Hours This Class:	1826
Hours of Calm This Class:	6
Percent of All Data This Class:	11.03

Table 15 Monticello Nuclear Generating Plant Site Meteorology - Stability Class G, Elevation 100 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

Wind Speed (mph) at 100 Meter Level

Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	6	8	16	9	0	0	39
NNE	3	12	15	8	1	0	39
NE	4	6	11	16	4	0	41
ENE	6	11	15	11	3	1	47
E	8	7	11	11	1	0	38
ESE	1	12	9	16	2	0	40
SE	5	9	10	5	9	1	39
SSE	6	6	12	8	11	1	44
S	2	6	13	30	12	1	64
SSW	1	14	26	55	21	0	117
SW	1	9	21	26	25	3	85
WSW	5	16	29	16	14	0	80
W	3	14	8	16	18	2	61
WNW	5	15	23	21	9	0	73
NW	2	7	14	17	1	0	41
NNW	8	13	21	7	5	0	54
VAR	0	0	0	0	0	0	0

Total Hours This Class:	904
Hours of Calm This Class:	2
Percent of All Data This Class:	5.46

Table 16 Monticello Nuclear Generating Plant Site Meteorology - All Classes Combined
Elevation 100 Meters

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

	Wind Speed (mph) at 100 Meter Level						
Direction	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	Above 24	Total
N	27	101	239	387	257	95	1106
NNE	25	94	191	259	109	20	698
NE	28	90	203	230	68	11	630
ENE	25	99	248	240	99	25	736
E	34	121	242	165	59	8	629
ESE	31	121	230	220	101	47	750
SE	33	120	240	325	160	40	918
SSE	23	135	285	385	281	54	1163
S	24	113	244	411	251	46	1089
SSW	18	148	259	425	318	103	1271
SW	25	128	233	321	191	40	938
WSW	29	117	200	205	116	22	689
W	20	107	194	196	113	24	654
WNW	30	108	301	419	232	93	1183
NW	22	97	331	709	527	173	1859
NNW	29	110	346	695	608	257	2045
VAR	0	0	0	0	0	0	0

Table 16 Monticello Nuclear Generating Plant Site Meteorology - All Classes Combined Elevation 100 Meters (cont'd)

Frequency Distribution Tables, Hours at each Wind Speed and Direction

Period of record: 9-1-76 through 8-31-78

Data Recovery for the Period

Total Hours:	17520
Hours of Calm:	201
Hours of Bad Data:	961
Percent Data Recovery:	94.51

Percent Acceptable Observations in each Stability Class

Class A	2.95
Class B	3.64
Class C	6.29
Class D	43.87
Class E	26.77
Class F	11.03
Class G	5.46

Average Wind Speed for each Wind Category

1 to 3 MPH	2.5
4 to 7 MPH	5.8
8 to 12 MPH	10.1
13 to 18 MPH	15.4
19 to 24 MPH	20.9
Above 24 MPH	28.1