

Enclosure 5

Joint Frequency Distributions of Wind Speed and Direction

2004 to 2013

SQN Units 1 & 2

(10 pages)



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A (DELTA T<=-1.9 C/100 M)

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND DIRECTION	WIND SPEED(MPH)													TOTAL
	CALM	1.13-1.68	1.69-2.24	2.25-2.80	2.81-3.36	3.37-4.47	4.48-6.71	6.72-8.95	8.96-11.18	11.19-13.42	13.43-17.90	17.91-22.37	>=22.38	
N	0.000	0.000	0.000	0.002	0.002	0.034	0.162	0.138	0.051	0.005	0.000	0.000	0.000	0.393
NNE	0.000	0.002	0.000	0.013	0.037	0.197	0.700	0.307	0.066	0.009	0.001	0.000	0.000	1.332
NE	0.000	0.000	0.006	0.030	0.051	0.235	0.382	0.120	0.021	0.003	0.000	0.000	0.000	0.848
ENE	0.000	0.001	0.006	0.012	0.021	0.064	0.038	0.001	0.000	0.000	0.000	0.000	0.000	0.143
E	0.000	0.000	0.001	0.001	0.003	0.017	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.030
ESE	0.000	0.000	0.000	0.000	0.002	0.014	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.029
SE	0.000	0.000	0.001	0.001	0.003	0.019	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.037
SSE	0.000	0.000	0.001	0.000	0.001	0.006	0.029	0.019	0.005	0.000	0.000	0.000	0.000	0.060
S	0.000	0.000	0.003	0.001	0.003	0.021	0.125	0.042	0.012	0.001	0.000	0.000	0.000	0.208
SSW	0.000	0.000	0.000	0.007	0.014	0.137	0.719	0.235	0.016	0.002	0.000	0.000	0.000	1.129
SW	0.000	0.000	0.000	0.013	0.020	0.191	0.533	0.140	0.015	0.001	0.001	0.000	0.000	0.914
WSW	0.000	0.001	0.001	0.000	0.002	0.019	0.071	0.045	0.008	0.003	0.001	0.000	0.000	0.152
W	0.000	0.000	0.001	0.000	0.002	0.002	0.024	0.045	0.024	0.019	0.002	0.000	0.000	0.120
WNW	0.000	0.001	0.000	0.000	0.000	0.002	0.036	0.052	0.049	0.014	0.000	0.000	0.000	0.154
NW	0.000	0.000	0.000	0.001	0.000	0.006	0.045	0.119	0.061	0.012	0.002	0.000	0.000	0.246
NNW	0.000	0.000	0.001	0.001	0.001	0.005	0.067	0.115	0.057	0.009	0.000	0.000	0.000	0.256
SUBTOTAL	0.001	0.006	0.022	0.082	0.164	0.966	2.963	1.377	0.384	0.079	0.008	0.000	0.000	6.053

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 86710  
 TOTAL HOURS OF STABILITY CLASS A 5246  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 5231  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 86420  
 TOTAL HOURS CALM 1

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01

MEAN WIND SPEED = 6.01

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9< DELTA T<=-1.7 C/100 M)

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND DIRECTION	WIND SPEED(MPH)													TOTAL
	CALM	1.13-1.68	1.69-2.24	2.25-2.80	2.81-3.36	3.37-4.47	4.48-6.71	6.72-8.95	8.96-11.18	11.19-13.42	13.43-17.90	17.91-22.37	>=22.38	
N	0.000	0.000	0.001	0.005	0.013	0.039	0.112	0.083	0.023	0.002	0.000	0.000	0.000	0.279
NNE	0.000	0.000	0.001	0.024	0.038	0.190	0.352	0.128	0.039	0.012	0.002	0.000	0.000	0.787
NE	0.000	0.000	0.008	0.052	0.072	0.143	0.157	0.035	0.012	0.001	0.000	0.000	0.000	0.481
ENE	0.000	0.000	0.002	0.015	0.019	0.050	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.096
E	0.000	0.000	0.001	0.003	0.017	0.020	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.046
ESE	0.000	0.000	0.000	0.005	0.012	0.014	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.035
SE	0.000	0.000	0.001	0.005	0.005	0.021	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.045
SSE	0.000	0.000	0.001	0.002	0.007	0.023	0.028	0.007	0.003	0.000	0.000	0.000	0.000	0.072
S	0.000	0.000	0.002	0.008	0.010	0.050	0.137	0.038	0.012	0.006	0.000	0.000	0.000	0.263
SSW	0.000	0.000	0.001	0.014	0.031	0.208	0.551	0.125	0.017	0.000	0.000	0.000	0.000	0.948
SW	0.000	0.000	0.005	0.014	0.050	0.209	0.304	0.068	0.007	0.002	0.001	0.000	0.000	0.661
WSW	0.000	0.000	0.001	0.005	0.010	0.027	0.037	0.019	0.008	0.005	0.003	0.000	0.000	0.115
W	0.000	0.000	0.000	0.003	0.001	0.007	0.023	0.023	0.013	0.001	0.000	0.000	0.000	0.072
WNW	0.000	0.000	0.000	0.000	0.000	0.002	0.029	0.023	0.025	0.008	0.000	0.000	0.000	0.088
NW	0.000	0.000	0.000	0.001	0.002	0.007	0.049	0.060	0.022	0.005	0.001	0.000	0.000	0.147
NNW	0.000	0.000	0.001	0.003	0.005	0.007	0.049	0.062	0.023	0.003	0.000	0.000	0.000	0.154
SUBTOTAL	0.001	0.000	0.027	0.160	0.292	1.017	1.860	0.673	0.205	0.045	0.008	0.000	0.000	4.287

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 86710  
 TOTAL HOURS OF STABILITY CLASS B 3717  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 3705  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 86420  
 TOTAL HOURS CALM 1

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01

MEAN WIND SPEED = 5.46

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7< DELTA T<=-1.5 C/100 M)

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND DIRECTION	WIND SPEED(MPH)													TOTAL
	CALM	1.13-1.68	1.69-2.24	2.25-2.80	2.81-3.36	3.37-4.47	4.48-6.71	6.72-8.95	8.96-11.18	11.19-13.42	13.43-17.90	17.91-22.37	>=22.38	
N	0.000	0.001	0.005	0.009	0.021	0.059	0.169	0.088	0.013	0.002	0.000	0.000	0.000	0.367
NNE	0.000	0.001	0.014	0.051	0.071	0.197	0.347	0.146	0.040	0.015	0.005	0.000	0.000	0.887
NE	0.001	0.000	0.037	0.108	0.081	0.183	0.155	0.030	0.016	0.002	0.000	0.000	0.000	0.613
ENE	0.000	0.000	0.010	0.042	0.024	0.031	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.119
E	0.000	0.000	0.008	0.025	0.028	0.021	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.083
ESE	0.000	0.000	0.006	0.019	0.027	0.027	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.080
SE	0.000	0.000	0.001	0.010	0.021	0.039	0.022	0.001	0.000	0.000	0.000	0.000	0.000	0.095
SSE	0.000	0.001	0.001	0.012	0.021	0.047	0.028	0.006	0.008	0.001	0.000	0.000	0.000	0.125
S	0.000	0.000	0.008	0.017	0.022	0.126	0.189	0.056	0.013	0.002	0.000	0.000	0.000	0.433
SSW	0.000	0.000	0.003	0.035	0.083	0.449	0.485	0.110	0.015	0.002	0.000	0.000	0.000	1.183
SW	0.000	0.001	0.010	0.051	0.098	0.280	0.400	0.046	0.012	0.000	0.000	0.000	0.000	0.899
WSW	0.000	0.000	0.003	0.020	0.017	0.032	0.056	0.015	0.006	0.006	0.001	0.000	0.000	0.156
W	0.000	0.001	0.001	0.005	0.005	0.012	0.047	0.022	0.017	0.002	0.002	0.000	0.000	0.115
WNW	0.000	0.000	0.003	0.003	0.001	0.010	0.039	0.040	0.023	0.012	0.002	0.000	0.000	0.135
NW	0.000	0.000	0.001	0.005	0.001	0.010	0.058	0.071	0.019	0.009	0.000	0.000	0.000	0.174
NNW	0.000	0.000	0.000	0.001	0.005	0.014	0.067	0.071	0.025	0.003	0.000	0.000	0.000	0.186
SUBTOTAL	0.002	0.006	0.113	0.412	0.525	1.538	2.077	0.701	0.207	0.058	0.010	0.000	0.000	5.650

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 86710  
 TOTAL HOURS OF STABILITY CLASS C 4901  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 4883  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 86420  
 TOTAL HOURS CALM 2

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01

MEAN WIND SPEED = 5.03

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND DIRECTION	WIND SPEED(MPH)													TOTAL
	CALM	1.13-1.68	1.69-2.24	2.25-2.80	2.81-3.36	3.37-4.47	4.48-6.71	6.72-8.95	8.96-11.18	11.19-13.42	13.43-17.90	17.91-22.37	>=22.38	
N	0.020	0.098	0.283	0.381	0.309	0.612	1.282	0.626	0.130	0.022	0.002	0.000	0.000	3.765
NNE	0.021	0.094	0.304	0.522	0.492	1.184	1.966	0.986	0.302	0.080	0.009	0.001	0.000	5.960
NE	0.020	0.075	0.309	0.356	0.235	0.344	0.322	0.080	0.019	0.005	0.003	0.000	0.000	1.767
ENE	0.009	0.044	0.133	0.116	0.080	0.054	0.019	0.001	0.000	0.000	0.000	0.000	0.000	0.456
E	0.006	0.034	0.087	0.079	0.050	0.039	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.314
ESE	0.005	0.037	0.069	0.083	0.040	0.027	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.272
SE	0.007	0.040	0.090	0.110	0.079	0.071	0.031	0.003	0.000	0.000	0.000	0.000	0.000	0.431
SSE	0.010	0.049	0.152	0.196	0.135	0.206	0.170	0.058	0.037	0.016	0.008	0.000	0.000	1.037
S	0.019	0.103	0.256	0.526	0.492	0.995	0.915	0.362	0.090	0.040	0.012	0.000	0.000	3.810
SSW	0.023	0.104	0.337	0.729	0.839	1.781	1.708	0.367	0.071	0.003	0.001	0.000	0.000	5.962
SW	0.019	0.079	0.293	0.498	0.480	0.953	1.033	0.222	0.057	0.009	0.000	0.000	0.000	3.643
WSW	0.011	0.064	0.153	0.137	0.117	0.209	0.292	0.128	0.056	0.008	0.003	0.000	0.000	1.178
W	0.006	0.047	0.065	0.072	0.052	0.120	0.230	0.192	0.083	0.027	0.008	0.000	0.000	0.903
WNW	0.005	0.044	0.056	0.046	0.039	0.090	0.263	0.200	0.098	0.030	0.007	0.000	0.000	0.879
NW	0.007	0.053	0.074	0.064	0.054	0.183	0.543	0.327	0.118	0.021	0.003	0.000	0.000	1.447
NNW	0.011	0.073	0.133	0.126	0.116	0.270	0.818	0.465	0.093	0.008	0.003	0.000	0.000	2.115
SUBTOTAL	0.198	1.038	2.793	4.040	3.609	7.138	9.616	4.023	1.153	0.270	0.061	0.001	0.000	33.940

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 86710  
 TOTAL HOURS OF STABILITY CLASS D 29412  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 29331  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 86420  
 TOTAL HOURS CALM 171

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01

MEAN WIND SPEED = 4.57

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5< DELTA T<= 1.5 C/100 M)

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND DIRECTION	WIND SPEED(MPH)													TOTAL
	CALM	1.13-1.68	1.69-2.24	2.25-2.80	2.81-3.36	3.37-4.47	4.48-6.71	6.72-8.95	8.96-11.18	11.19-13.42	13.43-17.90	17.91-22.37	>=22.38	
N	0.252	0.638	1.259	1.022	0.551	0.805	0.623	0.053	0.005	0.000	0.000	0.000	0.000	5.207
NNE	0.248	0.635	1.235	1.031	0.645	0.969	0.691	0.083	0.012	0.009	0.000	0.000	0.000	5.557
NE	0.071	0.262	0.270	0.196	0.082	0.118	0.050	0.006	0.001	0.000	0.000	0.000	0.000	1.054
ENE	0.023	0.105	0.067	0.020	0.019	0.009	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.245
E	0.018	0.084	0.050	0.020	0.006	0.009	0.006	0.001	0.000	0.000	0.000	0.000	0.000	0.194
ESE	0.021	0.088	0.067	0.031	0.010	0.008	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.231
SE	0.030	0.120	0.109	0.043	0.024	0.034	0.005	0.001	0.002	0.000	0.000	0.000	0.000	0.368
SSE	0.057	0.224	0.204	0.116	0.047	0.087	0.103	0.062	0.012	0.005	0.001	0.000	0.000	0.918
S	0.132	0.429	0.566	0.443	0.259	0.378	0.481	0.305	0.104	0.032	0.001	0.000	0.000	3.133
SSW	0.180	0.436	0.918	0.949	0.623	0.788	0.817	0.182	0.039	0.003	0.000	0.000	0.000	4.934
SW	0.165	0.404	0.838	0.822	0.521	0.742	0.516	0.110	0.029	0.002	0.001	0.000	0.000	4.149
WSW	0.080	0.221	0.382	0.304	0.189	0.257	0.189	0.045	0.020	0.007	0.000	0.000	0.000	1.693
W	0.054	0.193	0.212	0.134	0.071	0.115	0.118	0.032	0.009	0.006	0.001	0.000	0.000	0.945
WNW	0.043	0.174	0.150	0.080	0.067	0.100	0.133	0.021	0.007	0.001	0.000	0.000	0.000	0.775
NW	0.059	0.201	0.245	0.145	0.088	0.200	0.186	0.057	0.008	0.000	0.000	0.000	0.000	1.190
NNW	0.107	0.348	0.456	0.376	0.234	0.364	0.294	0.054	0.009	0.000	0.000	0.000	0.000	2.243
SUBTOTAL	1.539	4.564	7.026	5.730	3.434	4.983	4.218	1.015	0.257	0.066	0.005	0.000	0.000	32.836

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 86710  
 TOTAL HOURS OF STABILITY CLASS E 28494  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E 28377  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 86420  
 TOTAL HOURS CALM 1330

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01

MEAN WIND SPEED = 3.04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F ( 1.5< DELTA T<= 4.0 C/100 M)

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND DIRECTION	WIND SPEED(MPH)													TOTAL
	CALM	1.13-1.68	1.69-2.24	2.25-2.80	2.81-3.36	3.37-4.47	4.48-6.71	6.72-8.95	8.96-11.18	11.19-13.42	13.43-17.90	17.91-22.37	>=22.38	
N	0.192	0.392	0.775	0.595	0.205	0.159	0.020	0.002	0.000	0.000	0.000	0.000	0.000	2.339
NNE	0.440	0.837	1.844	0.994	0.222	0.133	0.023	0.001	0.000	0.000	0.000	0.000	0.000	4.494
NE	0.143	0.449	0.425	0.159	0.036	0.035	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1.259
ENE	0.032	0.140	0.052	0.002	0.001	0.006	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.234
E	0.023	0.106	0.031	0.007	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.172
ESE	0.016	0.069	0.025	0.005	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.117
SE	0.024	0.109	0.039	0.009	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.184
SSE	0.042	0.176	0.081	0.020	0.007	0.008	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.338
S	0.074	0.223	0.229	0.083	0.038	0.037	0.013	0.003	0.001	0.000	0.000	0.000	0.000	0.703
SSW	0.102	0.205	0.417	0.309	0.124	0.082	0.024	0.002	0.001	0.000	0.000	0.000	0.000	1.266
SW	0.072	0.142	0.299	0.255	0.140	0.086	0.038	0.005	0.000	0.000	0.000	0.000	0.000	1.036
WSW	0.025	0.056	0.096	0.074	0.036	0.031	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.327
W	0.013	0.035	0.044	0.034	0.017	0.015	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.170
WNW	0.011	0.043	0.025	0.022	0.016	0.012	0.007	0.002	0.000	0.000	0.000	0.000	0.000	0.138
NW	0.019	0.054	0.062	0.037	0.028	0.046	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.252
NNW	0.036	0.088	0.133	0.120	0.087	0.068	0.020	0.000	0.001	0.000	0.000	0.000	0.000	0.553
SUBTOTAL	1.264	3.124	4.579	2.724	0.959	0.722	0.190	0.019	0.003	0.000	0.000	0.000	0.000	13.584

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 86710  
 TOTAL HOURS OF STABILITY CLASS F 11781  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F 11739  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 86420  
 TOTAL HOURS CALM 1092

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01

MEAN WIND SPEED = 2.07

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS



JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND DIRECTION	WIND SPEED(MPH)													TOTAL
	CALM	1.13-1.68	1.69-2.24	2.25-2.80	2.81-3.36	3.37-4.47	4.48-6.71	6.72-8.95	8.96-11.18	11.19-13.42	13.43-17.90	17.91-22.37	>=22.38	
N	0.017	0.019	0.037	0.017	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.098
NNE	0.119	0.128	0.270	0.190	0.066	0.030	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.808
NE	0.122	0.190	0.218	0.132	0.029	0.019	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.712
ENE	0.033	0.080	0.029	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.148
E	0.023	0.061	0.014	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102
ESE	0.018	0.043	0.019	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082
SE	0.023	0.065	0.010	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.099
SSE	0.036	0.095	0.024	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.157
S	0.081	0.162	0.110	0.021	0.002	0.003	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.382
SSW	0.093	0.109	0.201	0.143	0.029	0.017	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.596
SW	0.040	0.039	0.093	0.101	0.058	0.025	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.358
WSW	0.006	0.012	0.009	0.006	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.039
W	0.003	0.005	0.005	0.001	0.000	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.017
WNW	0.001	0.002	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.008
NW	0.001	0.002	0.002	0.000	0.000	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.013
NNW	0.003	0.008	0.001	0.006	0.002	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.031
SUBTOTAL	0.618	1.019	1.043	0.634	0.196	0.115	0.023	0.000	0.002	0.000	0.000	0.000	0.000	3.650

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 86710  
 TOTAL HOURS OF STABILITY CLASS G 3159  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G 3154  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 86420  
 TOTAL HOURS CALM 534

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01

MEAN WIND SPEED = 1.86

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED  
 BY WIND DIRECTION DISREGARDING STABILITY CLASS

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND DIRECTION	WIND SPEED (MPH)													TOTAL
	CALM	1.13-1.68	1.69-2.24	2.25-2.80	2.81-3.36	3.37-4.47	4.48-6.71	6.72-8.95	8.96-11.18	11.19-13.42	13.43-17.90	17.91-22.37	>=22.38	
N	0.499	1.144	2.354	2.024	1.102	1.711	2.379	1.006	0.221	0.031	0.002	0.000	0.000	12.473
NNE	0.761	1.689	3.647	2.815	1.567	2.900	4.105	1.674	0.473	0.125	0.017	0.001	0.000	19.776
NE	0.320	0.972	1.271	1.039	0.585	1.082	1.096	0.275	0.068	0.011	0.003	0.000	0.000	6.722
ENE	0.095	0.369	0.300	0.214	0.162	0.213	0.083	0.002	0.000	0.000	0.000	0.000	0.000	1.439
E	0.068	0.285	0.192	0.140	0.107	0.107	0.040	0.002	0.000	0.000	0.000	0.000	0.000	0.942
ESE	0.060	0.237	0.185	0.145	0.092	0.091	0.029	0.006	0.000	0.000	0.000	0.000	0.000	0.844
SE	0.084	0.332	0.253	0.179	0.133	0.190	0.086	0.006	0.002	0.000	0.000	0.000	0.000	1.266
SSE	0.144	0.544	0.465	0.346	0.218	0.381	0.367	0.159	0.068	0.022	0.009	0.000	0.000	2.722
S	0.297	0.913	1.168	1.095	0.826	1.610	1.866	0.811	0.238	0.085	0.013	0.000	0.000	8.921
SSW	0.387	0.849	1.865	2.181	1.739	3.462	4.318	1.018	0.159	0.011	0.001	0.000	0.000	15.990
SW	0.313	0.662	1.528	1.744	1.359	2.486	2.829	0.591	0.118	0.016	0.003	0.000	0.000	11.650
WSW	0.142	0.352	0.643	0.545	0.373	0.578	0.653	0.252	0.099	0.029	0.009	0.000	0.000	3.674
W	0.086	0.281	0.325	0.248	0.147	0.271	0.460	0.316	0.149	0.057	0.014	0.000	0.000	2.356
WNW	0.071	0.264	0.235	0.151	0.125	0.215	0.508	0.340	0.202	0.064	0.009	0.000	0.000	2.186
NW	0.099	0.310	0.384	0.251	0.172	0.453	0.889	0.640	0.229	0.046	0.007	0.000	0.000	3.481
NNW	0.178	0.517	0.727	0.631	0.448	0.731	1.318	0.774	0.207	0.024	0.003	0.000	0.000	5.559
SUBTOTAL	3.605	9.721	15.542	13.749	9.156	16.481	21.025	7.872	2.233	0.523	0.092	0.001	0.000	100.000

TOTAL HOURS OF VALID WIND OBSERVATIONS 86967  
 TOTAL HOURS OF OBSERVATIONS 87672  
 RECOVERABILITY PERCENTAGE 99.2  
 TOTAL HOURS CALM 3135

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01

MEAN WIND SPEED = 3.79

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY STABILITY CLASS

SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data

JAN 1, 2004 - DEC 31, 2013

WIND SPEED (MPH)	STABILITY CLASS						
	A	B	C	D	E	F	G
CALM	0.001	0.001	0.002	0.198	1.539	1.264	0.618
1.13- 1.68	0.006	0.000	0.006	1.038	4.564	3.124	1.019
1.69- 2.24	0.022	0.027	0.113	2.793	7.026	4.579	1.043
2.25- 2.80	0.082	0.160	0.412	4.040	5.730	2.724	0.634
2.81- 3.36	0.164	0.292	0.525	3.609	3.434	0.959	0.196
3.37- 4.47	0.966	1.017	1.538	7.138	4.983	0.722	0.115
4.48- 6.71	2.963	1.860	2.077	9.616	4.218	0.190	0.023
6.72- 8.95	1.377	0.673	0.701	4.023	1.015	0.019	0.000
8.96-11.18	0.384	0.205	0.207	1.153	0.257	0.003	0.002
11.19-13.42	0.079	0.045	0.058	0.270	0.066	0.000	0.000
13.43-17.90	0.008	0.008	0.010	0.061	0.005	0.000	0.000
17.91-22.37	0.000	0.000	0.000	0.001	0.000	0.000	0.000
>=22.38	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	6.053	4.287	5.650	33.940	32.836	13.584	3.650

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 86710  
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 86420  
 TOTAL HOURS OF OBSERVATIONS 87672  
 JOINT RECOVERABILITY PERCENTAGE 98.6

METEOROLOGICAL FACILITY: SEQUOYAH NUCLEAR PLANT STA 57 A - Validated Edited Data  
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS  
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED: 2019/10/01