

VIRGINIA ELECTRIC AND POWER COMPANY

RICHMOND, VIRGINIA 23261

July 30, 1980

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

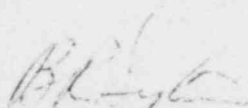
Serial No. 326A
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Docket Nos. 50-338
50-339
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NPF-7

Dear Mr. O'Reilly:

The attached corrected data sheets are being forwarded to replace data sheets originally included in the 1978 and 1979 "Non-Radiological Environmental Operating Reports" for North Anna Power Station. It is intended that these data sheets replace those previously submitted.

1. Insert amended meteorology summary tables (pages 6.2 to 6.17) with the corrected Table of Contents in the 1978 Non-Radiological annual report; delete the present Table of Contents and pages 6.2 to 6.11 in the onsite meteorological monitoring section.
2. Insert amended table 3.5 (page 3.14) in the 1979 Non-Radiological annual report (no change in Table of Contents); delete present table 3.5 in report (page 3.14).

Very truly yours,


B. R. Sylvia
Manager - Nuclear
Operations and Maintenance

cc: Director, Nuclear Reactor Regulation (17 copies)
c/o Distribution Services Branch, DDC, ADM

8008010291

CURRENT DATE 3/18/80 TIME 13.00.00

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

WIND SPEED VERSUS DIRECTION (IN NUMBER OF HOURLY OBSERVATIONS)

AT 33.00' ELEVATION
 STABILITY CLASS E - - BY SIGMA THETA

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	31	144	124	30	3	0	332
NE	20	140	70	13	3	1	247
ENE	36	91	37	15	3	0	182
E	40	112	38	1	0	0	191
ESE	42	126	33	0	0	0	201
SE	64	73	10	0	0	0	147
SSE	55	23	0	0	0	0	78
S	63	27	2	0	0	0	92
SSW	79	32	2	0	0	0	113
SW	52	31	6	0	0	0	89
WSW	37	36	50	13	4	2	142
W	55	82	67	25	9	0	238
WNW	125	180	70	80	20	3	478
NW	101	140	103	71	17	1	433
NNW	45	157	105	42	3	0	352
N	47	218	184	50	1	0	500
TOTAL	892	1612	901	340	63	7	3815

NO. OF HOURS OF CALM WIND - 2
 AVERAGE WIND SPEED 6.818 MPH

AT 33.00' ELEVATION
 STABILITY CLASS E - - BY DELTA T

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	12	75	21	2	0	0	110
NE	12	50	7	0	0	0	69
ENE	14	37	5	0	0	0	56
E	14	33	11	0	0	0	58
ESE	21	31	5	0	0	0	57
SE	24	58	5	0	0	0	87
SSE	34	49	4	0	0	0	87
S	73	119	7	0	0	0	199
SSW	93	127	30	1	1	0	252
SW	68	108	28	5	2	0	211
WSW	39	38	21	1	0	0	99
W	31	55	23	4	0	0	113
WNW	30	61	17	15	1	0	124
NW	31	76	8	0	0	0	115
NNW	12	63	9	0	0	0	84
N	25	91	31	5	0	0	152
TOTAL	533	1071	232	33	4	0	1873

NO. OF HOURS OF CALM WIND - 2
 AVERAGE WIND SPEED 5.156 MPH

AT 33.00' ELEVATION
 STABILITY CLASS F - - BY SIGMA THETA

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	6	5	2	0	0	0	13
NE	4	19	2	1	0	0	26
ENE	8	22	5	0	0	0	35
E	28	40	5	3	0	0	76
ESE	20	26	8	0	0	0	54
SE	13	7	0	0	0	0	20
SSE	15	5	0	0	0	0	20
S	18	7	0	0	0	0	25
SSW	12	13	2	0	0	0	27
SW	10	3	1	0	0	0	14
WSW	9	6	1	0	0	0	16
W	18	17	2	0	0	0	37
WNW	51	81	7	7	0	0	146
NW	71	68	19	7	1	0	166
NNW	11	30	8	3	0	0	52
N	6	9	8	0	0	0	23
TOTAL	300	354	70	21	1	0	746

NO. OF HOURS OF CALM WIND - 4
 AVERAGE WIND SPEED 4.706 MPH

AT 33.00' ELEVATION
 STABILITY CLASS F - - BY DELTA T

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	10	13	0	0	0	0	23
NE	8	6	1	1	0	0	16
ENE	6	1	0	0	0	0	7
E	9	1	0	0	0	0	10
ESE	9	3	0	0	0	0	12
SE	11	4	1	0	0	0	16
SSE	26	2	0	0	0	0	28
S	49	12	1	0	0	0	62
SSW	58	36	3	0	0	0	97
SW	35	30	0	0	0	0	65
WSW	14	7	1	0	0	0	22
W	43	35	0	0	0	0	78
WNW	32	71	3	0	0	0	106
NW	36	29	0	0	0	0	65
NNW	7	5	1	0	0	0	13
N	10	6	0	0	0	0	16
TOTAL	363	261	11	1	0	0	636

NO. OF HOURS OF CALM WIND - 1
 AVERAGE WIND SPEED 3.496 MPH

VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

CURRENT DATE 3/18/80 TIME 13.00.00

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

WIND SPEED VERSUS DIRECTION (IN NUMBER OF HOURLY OBSERVATIONS)

AT 33.00' ELEVATION STABILITY CLASS G - - BY SIGMA THETA								I	AT 33.00' ELEVATION STABILITY CLASS G - - BY DELTA T							
WIND DIR.	WIND SPEED (MPH)							I	WIND DIR.	WIND SPEED (MPH)						
	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL	I	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL	
NNE	1	6	1	0	0	0	8	I	NNE	7	1	0	0	0	8	
NE	2	1	0	0	0	0	3	I	NE	4	0	0	0	0	4	
ENE	3	0	0	0	0	0	3	I	ENE	7	0	0	0	0	7	
E	5	2	0	0	0	0	7	I	E	7	1	0	0	0	8	
ESE	6	8	0	0	0	0	14	I	ESE	11	0	0	0	0	11	
SE	0	0	0	0	0	0	0	I	SE	11	0	0	0	0	11	
SSE	3	0	0	0	0	0	3	I	SSE	9	0	0	0	0	9	
S	3	1	0	0	0	0	4	I	S	10	9	0	0	0	19	
SSW	2	0	0	0	0	0	2	I	SSW	13	12	0	0	0	25	
SW	2	2	0	1	0	0	5	I	SW	6	2	0	0	0	8	
WSW	0	0	0	0	0	0	0	I	WSW	8	1	0	0	0	9	
W	2	3	0	0	0	0	5	I	W	26	10	0	0	0	36	
WNW	3	1	2	2	0	0	11	I	WNW	69	38	1	0	0	108	
NW	8	19	2	1	0	0	30	I	NW	86	23	1	0	0	110	
NNW	3	10	3	0	0	0	16	I	NNW	17	5	0	0	0	22	
N	1	3	3	0	0	0	7	I	N	9	1	0	0	0	10	
TOTAL	44	19	11	4	0	0	118	I	TOTAL	300	103	2	0	0	405	
NO. OF HOURS OF CALM WIND - 4								I	NO. OF HOURS OF CALM WIND - 0							
AVERAGE WIND SPEED 4.778 MPH								I	AVERAGE WIND SPEED 2.852 MPH							

FOR ALL DELTA-T OBSERVATIONS

	A	B	C	D	E	F	G
MAXIMUM WS	27.0	23.3	23.1	25.8	23.6	14.6	10.5
WD	249.0	291.0	251.0	296.0	233.0	43.0	285.0
MINIMUM WS	0.9	1.7	1.1	0.9	0.6	0.5	0.8
WD	84.0	159.0	270.0	133.0	107.0	338.0	359.0

DELTA-T NOT CONSIDERED

MAXIMUM WS	27.0
WD	249.0
MINIMUM WS	0.2
WD	109.0

VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

CURRENT DATE 3/18/80 TIME 13.00.00

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

WIND SPEED VERSUS DIRECTION (IN NUMBER OF HOURLY OBSERVATIONS)

AT 150.00' ELEVATION
 STABILITY CLASS A - - BY SIGMA THETA

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	4	0	0	0	0	0	4
NE	5	0	0	0	0	0	5
ENE	4	0	0	0	0	0	4
E	2	1	0	0	0	0	3
ESE	5	0	0	0	0	0	5
SE	1	1	0	0	0	0	2
SSE	0	0	0	0	0	0	0
S	0	1	0	0	0	0	1
SSW	0	0	0	0	0	0	0
SW	1	0	0	0	0	0	1
WSW	1	1	0	0	0	0	2
W	1	0	0	0	0	0	1
WNW	1	0	0	0	0	0	1
NW	2	0	1	0	0	0	3
NNW	0	0	0	0	0	0	0
N	1	0	0	0	0	0	1
TOTAL	28	4	1	0	0	0	33

NO. OF HOURS OF CALM WIND - 0
 AVERAGE WIND SPEED 3.016 MPH

AT 150.00' ELEVATION
 STABILITY CLASS A - - BY DELTA T

WIND DIR.	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	14	14	9	0	0	0	37
NE	15	20	7	0	0	0	42
ENE	17	9	1	0	0	0	27
E	14	25	0	0	0	0	39
ESE	22	46	0	0	0	0	68
SE	9	42	1	0	0	0	52
SSE	3	15	1	0	0	0	19
S	1	28	21	0	0	0	50
SSW	0	21	43	9	0	0	73
SW	2	9	11	10	1	3	36
WSW	2	3	6	2	0	3	16
W	3	5	19	2	2	0	31
WNW	6	9	10	23	0	0	48
NW	11	12	22	6	6	0	57
NNW	10	21	12	2	1	1	47
N	4	14	15	9	0	0	42
TOTAL	133	293	178	63	10	7	684

NO. OF HOURS OF CALM WIND - 3
 AVERAGE WIND SPEED 7.274 MPH

AT 150.00' ELEVATION
 STABILITY CLASS B - - BY SIGMA THETA

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	6-12	13-18	19-24	GT-24	
NNE	0	1	0	0	0	0	9
NE	12	3	0	0	0	0	15
ENE	4	0	0	0	0	0	4
E	5	2	0	0	0	0	7
ESE	8	1	0	0	0	0	9
SE	3	2	0	0	0	0	5
SSE	2	4	0	0	0	0	6
S	2	2	0	0	0	0	4
SSW	1	3	1	0	0	0	5
SW	1	1	0	0	0	0	2
WSW	0	0	0	0	0	0	0
W	0	2	0	0	0	0	2
WNW	1	2	0	0	0	0	3
NW	1	0	0	0	0	0	1
NNW	0	0	0	0	0	0	0
N	5	0	0	0	0	0	5
TOTAL	53	23	1	0	0	0	77

NO. OF HOURS OF CALM WIND - 0
 AVERAGE WIND SPEED 3.154 MPH

AT 150.00' ELEVATION
 STABILITY CLASS B - - BY DELTA T

WIND DIR.	WIND SPEED(MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	0	2	2	0	0	0	4
NE	8	4	5	0	0	0	17
ENE	3	2	0	0	0	0	5
E	5	3	0	0	0	0	8
ESE	6	6	2	0	0	0	14
SE	1	9	1	0	0	0	11
SSE	1	5	3	0	0	0	9
S	0	3	2	0	0	0	5
SSW	0	5	17	1	0	0	23
SW	0	1	8	2	1	0	12
WSW	0	0	2	0	0	0	2
W	3	4	3	1	1	1	13
WNW	2	2	1	2	1	3	11
NW	2	4	4	0	5	0	15
NNW	1	4	5	0	0	0	10
N	4	7	8	4	0	0	23
TOTAL	36	61	63	10	8	4	182

NO. OF HOURS OF CALM WIND - 0
 AVERAGE WIND SPEED 7.861 MPH

ENG35021

VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

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CURRENT DATE 3/18/80 TIME 13.00.00

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

WIND SPEED VERSUS DIRECTION (IN NUMBER OF HOURLY OBSERVATIONS)

AT 150.00' ELEVATION
 STABILITY CLASS C - - BY SIGMA THETA

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	13	3	1	0	0	0	17
NE	12	4	2	0	0	0	18
ENE	13	4	0	0	0	0	17
E	7	4	0	0	0	0	11
ESE	18	10	0	0	0	0	28
SE	11	20	0	0	0	0	31
SSE	6	5	0	0	0	0	11
S	5	17	0	0	0	0	22
SSW	4	10	2	0	0	0	16
SW	5	5	1	0	0	0	11
WSW	4	3	0	0	0	0	7
W	5	5	1	0	0	0	11
WNW	5	2	0	0	0	0	7
NW	6	7	0	0	0	0	13
NNW	4	7	0	0	0	0	11
N	9	8	1	0	0	0	18
TOTAL	127	114	8	0	0	0	249

NO. OF HOURS OF CALM WIND - 1
 AVERAGE WIND SPEED 3.901 MPH

AT 150.00' ELEVATION
 STABILITY CLASS C - - BY DELTA T

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	3	9	11	3	0	0	26
NE	1	5	6	1	0	0	13
ENE	3	1	1	0	0	0	5
E	5	4	0	0	0	0	9
ESE	3	7	1	0	0	0	11
SE	2	9	0	0	0	0	11
SSE	2	2	1	0	0	0	5
S	1	8	7	1	0	0	17
SSW	1	11	8	2	0	0	22
SW	0	6	5	0	0	0	11
WSW	0	2	3	0	0	1	6
W	0	1	3	1	1	0	6
WNW	1	2	2	5	1	0	11
NW	2	7	2	4	1	0	16
NNW	2	6	3	1	0	0	12
N	0	4	8	3	1	0	16
TOTAL	26	84	61	21	4	1	197

NO. OF HOURS OF CALM WIND - 1
 AVERAGE WIND SPEED 7.920 MPH

AT 150.00' ELEVATION
 STABILITY CLASS D - - BY SIGMA THETA

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	30	68	17	3	0	0	118
NE	36	56	18	1	1	0	112
ENE	24	36	4	1	0	0	65
E	32	32	4	0	0	0	68
ESE	24	3	4	1	0	0	62
SE	13	51	9	0	0	0	73
SSE	8	34	19	1	0	0	62
S	11	78	54	5	0	1	149
SSW	8	92	181	57	4	4	346
SW	5	63	88	32	14	1	203
WSW	18	39	21	3	1	0	82
W	17	35	27	1	0	0	80
WNW	22	15	13	2	0	0	52
NW	26	37	11	0	0	0	74
NNW	24	47	8	0	0	0	79
N	23	56	19	5	0	0	103
TOTAL	321	772	497	112	20	6	1728

NO. OF HOURS OF CALM WIND - 2
 AVERAGE WIND SPEED 6.893 MPH

AT 150.00' ELEVATION
 STABILITY CLASS D - - BY DELTA T

WIND DIR.	WIND SPEED (MPH)						TOTAL
	1-3	4-7	8-12	13-18	19-24	GT-24	
NNE	15	47	56	17	0	0	135
NE	16	46	27	1	0	0	90
ENE	13	40	20	6	0	0	79
E	16	36	10	3	0	0	65
ESE	9	26	22	0	0	0	57
SE	7	23	14	2	0	0	46
SSE	4	15	6	0	0	0	25
S	8	34	12	2	0	1	57
SSW	5	38	65	5	1	0	114
SW	5	19	27	11	5	4	71
WSW	3	17	12	5	0	2	39
W	3	11	26	13	3	0	56
WNW	8	22	20	22	13	6	91
NW	4	32	30	28	13	2	109
NNW	8	39	38	23	4	0	112
N	9	43	71	64	6	0	193
TOTAL	133	488	456	202	45	15	1339

NO. OF HOURS OF CALM WIND - 0
 AVERAGE WIND SPEED 8.729 MPH

ENG35021

VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

PAGE 7

CURRENT DATE 3/10/80 TIME 13.00.00

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

WIND SPEED VERSUS DIRECTION (IN NUMBER OF HOURLY OBSERVATIONS)

AT 150.00' ELEVATION
 STABILITY CLASS E - - BY SIGMA THETA

WIND DIR.	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL
NNE	20	112	203	77	7	1	420
NE	20	109	103	25	2	2	261
ENE	31	71	66	22	2	3	195
E	38	108	46	5	0	0	197
ESE	25	131	39	0	0	0	195
SE	19	82	50	9	0	0	160
SSE	15	41	76	10	2	2	146
S	11	89	158	15	4	0	277
SSW	8	106	243	40	4	1	402
SW	12	90	123	83	17	13	338
WSW	21	68	78	54	10	7	238
W	20	71	105	51	27	9	283
WNW	33	86	64	101	25	13	322
NW	26	95	125	71	35	2	354
NNW	34	168	122	59	12	1	396
N	26	142	241	136	11	0	556
TOTAL	359	1569	1842	758	158	54	4740

NO. OF HOURS OF CALM WIND - 3
 AVERAGE WIND SPEED 9.184 MPH

AT 150.00' ELEVATION
 STABILITY CLASS E - - BY DELTA T

WIND DIR.	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL
NNE	12	58	49	11	0	0	130
NE	13	50	21	1	0	0	85
ENE	10	32	11	0	0	0	53
E	13	38	18	0	0	0	69
ESE	6	32	10	0	0	0	48
SE	8	35	32	1	0	0	76
SSE	7	16	42	1	0	0	66
S	7	56	67	5	0	0	135
SSW	10	87	162	36	2	4	301
SW	5	75	96	38	5	1	220
WSW	16	43	34	11	0	0	104
W	18	49	42	10	2	0	121
WNW	14	30	20	21	4	1	90
NW	13	47	25	3	0	0	88
NNW	12	78	28	0	1	0	119
N	17	62	59	14	1	0	153
TOTAL	181	788	716	152	15	6	1858

NO. OF HOURS OF CALM WIND - 1
 AVERAGE WIND SPEED 7.747 MPH

AT 150.00' ELEVATION
 STABILITY CLASS F - - BY SIGMA THETA

WIND DIR.	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL
NNE	2	14	19	6	0	0	41
NE	1	16	21	3	0	0	41
ENE	5	29	14	2	0	0	50
E	6	37	11	2	0	0	56
ESE	2	40	17	4	1	0	72
SE	4	37	28	6	1	0	76
SSE	12	33	12	0	0	0	57
S	9	42	36	2	0	0	89
SSW	8	37	46	4	0	0	95
SW	9	31	40	9	0	0	89
WSW	7	9	12	9	0	0	37
W	5	25	16	1	0	0	47
WNW	7	44	26	12	2	0	91
NW	12	78	39	8	0	0	137
NNW	4	52	27	4	0	0	87
N	5	23	9	1	0	0	38
TOTAL	90	555	373	73	4	0	1103

NO. OF HOURS OF CALM WIND - 0
 AVERAGE WIND SPEED 7.317 MPH

AT 150.00' ELEVATION
 STABILITY CLASS F - - BY DELTA T

WIND DIR.	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL
NNE	5	6	14	3	0	0	28
NE	6	9	3	0	0	0	18
ENE	4	5	0	0	0	0	9
E	11	7	1	0	0	0	19
ESE	8	12	0	0	1	0	21
SE	7	8	0	0	0	0	15
SSE	3	15	4	0	0	0	22
S	4	24	23	0	0	0	51
SSW	6	21	51	9	0	0	87
SW	6	25	37	8	0	0	76
WSW	10	24	12	2	0	0	48
W	4	19	9	2	0	0	34
WNW	9	24	10	2	0	0	45
NW	7	55	14	0	0	0	76
NNW	15	31	5	0	0	0	51
N	6	15	3	0	0	0	24
TOTAL	111	300	186	26	1	0	624

NO. OF HOURS OF CALM WIND - 0
 AVERAGE WIND SPEED 6.532 MPH

Datafold Forms, Inc. - R

0890

ENG35021

VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

PAGE 8

CURRENT DATE 3/18/80 TIME 13.00.00

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

WIND SPEED VERSUS DIRECTION (IN NUMBER OF HOURLY OBSERVATIONS)

AT 150.00' ELEVATION STABILITY CLASS G -- BY SIGMA THETA								AT 150.00' ELEVATION STABILITY CLASS G -- BY DELTA T							
WIND DIR.	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL	WIND DIR.	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL
NNE	6	2	1	0	0	0	9	NNE	9	12	2	0	0	0	23
NE	1	5	3	0	0	0	9	NE	7	9	3	0	0	0	14
ENE	3	3	1	0	0	0	7	ENE	5	8	1	0	0	0	14
E	4	6	2	0	0	0	12	E	4	7	0	0	0	0	11
ESE	4	5	3	1	0	0	13	ESE	5	3	0	0	0	0	8
SE	3	10	12	1	0	0	26	SE	6	5	1	0	0	0	12
SSE	0	11	8	0	0	0	19	SSE	13	10	1	0	0	0	24
S	2	19	29	0	0	0	50	S	13	15	20	0	0	0	48
SSW	1	11	40	6	0	0	58	SSW	10	8	16	4	0	0	38
SW	1	7	19	4	0	0	31	SW	9	9	6	1	0	0	25
WSW	0	2	1	0	0	0	3	WSW	11	12	2	0	0	0	25
W	0	1	4	0	0	0	5	W	5	21	2	0	0	0	28
WNW	6	13	15	3	0	0	37	WNW	11	11	1	1	0	0	32
WW	1	21	13	1	0	0	36	WW	8	20	3	0	0	0	31
WNW	2	9	3	1	0	0	15	WNW	7	26	2	0	0	0	35
N	2	2	1	0	0	0	5	N	9	19	0	1	0	0	29
TOTAL	36	127	155	17	0	0	335	TOTAL	127	203	60	7	0	0	397
NO. OF HOURS OF CALM WIND - 0								NO. OF HOURS OF CALM WIND - 1							
AVERAGE WIND SPEED 7.700 MPH								AVERAGE WIND SPEED 5.247 MPH							

FOR ALL DELTA-T OBSERVATIONS

	A	B	C	D	E	F	G
MAXIMUM WS	33.9	27.7	28.1	33.7	33.5	23.5	16.2
WD	241.0	290.0	245.0	227.0	223.0	121.0	208.0
MINIMUM WS	0.2	1.4	0.3	1.0	0.4	0.2	0.3
WD	81.0	103.0	337.0	44.0	191.0	85.0	265.0

DELTA-T NOT CONSIDERED

MAXIMUM WS	33.9
WD	241.0
MINIMUM WS	0.2
WD	81.0

WIND SPEED POWER LAW EXPONENTS

STABILITY CLASS	A	B	C	D	E	F	G
VALUE	0.10	0.08	0.18	0.17	0.27	0.40	0.36

CURRENT DATE 3/18/80 TIME 13.00.01

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

WIND SPEED VERSUS DIRECTION (IN NUMBER OF HOURLY OBSERVATIONS)
 FOR ALL DELTA-T OBSERVATIONS

AT 33.00' ELEVATION								AT 150.00' ELEVATION								
TOTAL OBSERVATIONS - - ALL STABILITY CATEGORIES								TOTAL OBSERVATIONS - - ALL STABILITY CATEGORIES								
WIND DIR.	WIND SPEED (MPH)							I	WIND DIR.	WIND SPEED (MPH)						
	1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL			1-3	4-7	8-12	13-18	19-24	GT-24	TOTAL
NNE	64	171	84	14	0	0	333	I	NNE	58	148	143	34	0	0	383
NE	63	145	40	1	0	0	249	I	NE	61	143	72	3	0	0	279
ENE	81	103	18	3	0	0	205	I	ENE	55	97	34	6	0	0	192
E	87	110	21	1	0	0	227	I	E	68	120	29	3	0	0	220
ESE	85	157	22	0	0	0	254	I	ESE	59	132	35	0	1	0	227
SE	66	125	9	0	0	0	200	I	SE	40	131	49	3	0	0	223
SSE	84	92	4	0	0	0	180	I	SSE	33	78	58	1	0	0	170
S	155	233	30	0	0	0	418	I	S	34	168	152	8	0	1	363
SSW	178	325	67	2	2	0	574	I	SSW	32	191	362	66	3	4	658
SW	125	201	63	11	3	1	404	I	SW	27	144	190	70	12	8	451
WSW	69	73	41	6	6	3	198	I	WSW	42	101	71	20	0	6	240
W	111	127	75	12	3	0	328	I	W	36	110	104	29	9	1	289
WNW	146	221	72	58	11	3	510	I	WNW	51	108	64	76	19	10	328
NW	187	192	79	42	13	4	514	I	NW	47	177	100	41	25	2	392
NNW	62	151	70	22	3	0	308	I	NNW	55	205	93	26	6	1	386
N	74	261	158	33	1	0	467	I	N	49	164	164	95	8	0	480
TOTAL	1637	2634	853	205	42	8	5379	I	TOTAL	747	2217	1720	481	83	33	5281
NO. OF HOURS OF CALM WIND - - 3								I	NO. OF HOURS OF CALM WIND - - 6							
HOURS OF MISSING DATA - - - 3378								I	HOURS OF MISSING DATA - - - 3473							
AVERAGE WIND SPEED - - - 5.973 MPH								I	AVERAGE WIND SPEED - - - 8.126 MPH							

----- LEGEND -----

STABILITY GROUPS				WINDSPEED GROUPS	
STABILITY CLASSIFICATION	PASQUILL CATEGORIES	SIGMA THETA ANGULAR DEG.	DELTA-T DEGREES F PER 1000 FT	GROUP	WINDSPEED RANGE (MILES PER HOUR)
EXTREMELY UNSTABLE	A	GE 22.500	LT -10.427	CALM	LESS THAN 0.750
MODERATELY UNSTABLE	B	17.500 TO 22.499	-10.427 TO -9.330	1-3	0.750 TO 3.500
SLIGHTLY UNSTABLE	C	12.500 TO 17.499	-9.329 TO -8.233	4-7	3.501 TO 7.500
NEUTRAL	D	7.500 TO 12.499	-8.232 TO -2.745	8-12	7.501 TO 12.500
SLIGHTLY STABLE	E	3.750 TO 7.499	-2.744 TO +8.231	13-18	12.501 TO 18.500
MODERATELY STABLE	F	2.100 TO 3.749	+8.232 TO +21.950	19-24	18.501 TO 24.000
EXTREMELY STABLE	G	LT 2.100	GE +21.951	GT-24	GREATER THAN 24.000

NOTE...(1) DELTA-T IS A POSITIVE NUMBER WHEN THE TOWER TOP TEMP. IS HIGHER THAN THE BOTTOM TEMP.
 (2) DELTA-T OBS CONVERTED TO STANDARD BY OBS X (1000/DELTA HEIGHT)

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VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

PAGE 10

CURRENT DATE 3/18/80 TIME 13.00.01

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

WIND SPEED VERSUS DIRECTION (IN NUMBER OF HOURLY OBSERVATIONS)
 DELTA-T NOT CONSIDERED

AT 33.00' ELEVATION								AT 150.00' ELEVATION							
TOTAL OBSERVATIONS - - ALL STABILITY CATEGORIES								TOTAL OBSERVATIONS - - ALL STABILITY CATEGORIES							
WIND DIR.	1-3	4-7	WIND SPEED (MPH)			GT-24	TOTAL	WIND DIR.	1-3	4-7	WIND SPEED (MPH)			GT-24	TOTAL
			8-12	13-18	19-24						8-12	13-18	19-24		
NNE	98	248	158	35	3	0	542	NNE	85	202	247	90	7	1	632
NE	93	236	95	14	3	1	442	NE	87	203	151	29	3	2	475
ENE	112	163	46	17	3	0	341	ENE	84	149	87	25	2	3	350
E	134	210	45	5	0	0	394	E	97	194	64	7	0	0	362
ESE	133	253	44	1	0	0	431	ESE	89	235	63	6	1	0	394
SE	120	235	28	0	0	0	383	SE	56	211	103	16	1	0	387
SSE	143	188	20	1	0	0	352	SSE	46	132	115	11	2	2	308
S	220	365	57	3	0	0	645	S	43	250	277	22	4	1	597
SSW	225	443	115	7	2	0	792	SSW	38	265	513	107	8	5	936
SW	162	294	129	32	6	1	624	SW	39	201	273	128	31	14	686
WSW	94	105	85	32	12	3	331	WSW	53	130	113	67	11	7	381
W	144	172	117	33	11	0	477	W	48	154	160	55	27	4	453
WNW	225	320	117	99	20	3	784	WNW	75	175	129	128	27	13	547
NW	251	295	150	65	18	1	800	NW	75	249	199	89	36	2	650
NNW	100	251	145	45	3	0	544	NNW	72	288	169	65	12	1	607
N	112	311	250	56	1	0	730	N	75	233	283	145	11	0	747
TOTAL	2366	4089	1601	465	82	9	8612	TOTAL	1062	3271	2946	990	183	60	8512
NO. OF HOURS OF CALM WIND - 11								NO. OF HOURS OF CALM WIND - 6							
HOURS OF MISSING DATA - - - 137								HOURS OF MISSING DATA - - - 242							
AVERAGE WIND SPEED - - - 5.973 MPH								AVERAGE WIND SPEED - - - 8.126 MPH							

--- STABILITY GROUPS --- --- LEGEND --- --- WINDSPEED GROUPS ---

STABILITY CLASSIFICATION	PASQUILL CATEGORIES	SIGMA THETA ANGULAR DEG.	DELTA-T DEGREES F PER 1000 FT	GROUP	WINDSPEED RANGE (MILES PER HOUR)
EXTREMELY UNSTABLE	A	GE 22.500	LT -10.427	CALM	LESS THAN 0.750
MODERATELY UNSTABLE	B	17.500 TO 22.499	-10.427 TO -9.330	1-3	0.750 TO 3.500
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NEUTRAL	D	7.500 TO 12.499	-8.232 TO -2.745	8-12	7.501 TO 12.500
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EXTREMELY STABLE	G	LT 2.100	GE +21.951	GT-24	GREATER THAN 24.000

NOTE... (1) DELTA-T IS A POSITIVE NUMBER WHEN THE TOWER TOP TEMP. IS HIGHER THAN THE BOTTOM TEMP.
 (2) DELTA-T OBS CONVERTED TO STANDARD BY OBS X (1000/DELTA HEIGHT)

VIRGINIA ELECTRIC & POWER COMPANY
ENVIRONMENTAL SERVICES METEOROLOGY
SUMMARY OF METEOROLOGICAL OBSERVATIONS

STATION ANNA SITE 1
FOR PERIOD 1/ 1/78 THROUGH 12/31/78

CONTINUOUS WIND DIRECTION PERSISTENCE REPORT
ELEVATION 33.00'

ENG35021
CURRENT DATE 3/18/80 TIME 13.00.01

HRS	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	N	TOTAL	PCT.TOTAL	
1	244	207	183	200	156	133	182	196	213	194	161	211	237	248	216	228	3209	64.96
2	59	39	38	45	53	55	43	72	60	54	33	46	69	79	72	77	914	18.50
3	17	20	13	16	31	12	8	33	35	34	19	17	34	40	26	19	374	7.57
4	8	6	0	4	6	9	7	24	20	14	1	12	21	29	4	17	190	3.85
5	4	5	1	5	4	3	0	7	19	10	2	2	11	12	3	10	98	1.98
6	9	4	1	0	4	2	2	2	2	3	0	6	5	8	4	11	63	1.23
7	2	1	0	1	0	1	0	4	4	3	1	3	3	2	2	4	31	0.63
8	0	1	0	1	1	0	0	2	2	1	0	1	4	2	2	2	19	0.38
9	1	1	0	0	0	1	0	1	4	4	0	0	2	1	0	0	15	0.30
10	0	0	0	0	0	1	0	1	2	2	1	0	4	0	1	1	13	0.26
11	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	4	0.08
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0.08
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
GT	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
TOTAL	344	204	244	272	255	218	243	342	303	320	219	290	392	422	331	373	4940	100.00
PCT.TOTAL	6.96	5.75	4.94	5.51	5.16	4.41	4.92	6.92	7.75	6.48	4.43	6.03	7.94	8.54	6.70	7.55	100.00	100.00

6.12

CURRENT DATE 3/18/80 TIME 13.00.01

VIRGINIA ELECTRIC & POWER COMPANY
ENVIRONMENTAL SERVICES METEOROLOGY
SUMMARY OF METEOROLOGICAL OBSERVATIONS

STATION ANR1A SITE 1
FOR PERIOD 1/ 1/78 THROUGH 12/31/78

HRS	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	TOTAL	PCT.TOTAL
1	217	184	166	174	172	150	127	140	150	144	161	163	166	194	223	225	2756	61.04
2	65	54	45	44	46	45	43	60	67	80	37	42	63	60	70	69	890	17.65
3	26	20	10	16	16	22	10	27	45	27	19	25	30	37	23	34	307	8.54
4	14	9	9	8	10	6	7	15	27	15	8	9	8	22	13	13	193	4.26
5	0	9	2	4	3	5	0	9	16	16	5	5	9	12	7	11	121	2.67
6	0	3	3	0	2	1	1	9	10	5	1	3	1	9	8	10	74	1.63
7	1	1	0	0	1	1	2	4	9	2	0	3	0	2	3	4	33	0.73
8	3	1	0	0	1	1	1	3	3	5	1	0	3	0	1	0	23	0.51
9	1	1	0	0	0	0	1	3	4	4	2	1	0	1	0	2	20	0.44
10	1	0	0	0	0	0	0	0	3	3	0	1	2	0	0	2	12	0.26
11	0	0	0	0	0	1	0	0	4	1	0	0	1	0	1	0	8	0.18
12	0	0	0	0	0	0	0	0	2	0	0	1	1	0	0	1	5	0.11
13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.02
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
15	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	3	0.07
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	3	0.07
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.02
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
GT	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
TOTAL	365	282	235	246	251	232	192	271	343	302	234	283	265	337	349	373	4530	100.00
PCT.TOTAL	7.62	6.23	5.19	5.43	5.54	5.12	4.24	5.98	7.57	6.67	5.17	5.58	6.29	7.44	7.70	6.23	100.00	

6.13

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VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

CURRENT DATE 3/18/80 TIME 13.00.01

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

TWENTY-FOUR HOUR WIND DIRECTION REPORT

ELEVATION 33.00'

HR9	MNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	TOTAL	PCT. TOTAL
1	67	82	71	68	53	51	67	48	43	54	75	76	66	59	72	58	1010	75.16
2	41	35	37	47	35	28	37	23	29	34	44	39	49	34	40	42	594	41.27
3	27	24	20	19	20	21	14	22	19	20	19	25	20	38	24	19	351	12.57
4	13	7	12	12	16	8	14	21	17	22	7	15	17	25	14	19	239	8.56
5	13	7	3	13	9	6	8	8	18	14	4	8	18	10	16	12	167	5.98
6	8	7	7	2	7	5	4	6	14	13	2	1	11	14	7	12	120	4.30
7	9	6	1	2	6	3	1	10	10	9	2	5	6	10	3	5	88	3.15
8	3	2	3	2	3	4	2	7	4	5	0	7	11	7	6	11	77	2.76
9	4	1	0	0	1	3	0	1	2	1	1	0	6	8	3	11	44	1.58
10	2	1	0	2	0	3	0	2	7	2	0	0	5	4	2	2	34	1.22
11	0	1	0	0	2	1	1	2	5	1	0	0	3	1	1	1	19	0.68
12	0	1	0	0	0	0	0	5	5	0	1	0	2	3	0	1	18	0.64
13	0	1	0	0	0	0	0	2	2	1	0	1	1	2	0	2	12	0.43
14	0	0	0	0	0	0	0	0	2	1	0	0	1	1	0	1	6	0.21
15	1	0	0	0	0	0	1	2	0	0	0	0	0	0	1	0	5	0.18
16	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	4	0.14
17	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0.07
18	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0.07
19	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.04
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
TOTAL	188	175	154	167	152	133	149	161	179	179	156	181	217	216	189	197	2793	100.00
PCT. TOTAL	6.73	6.27	5.51	5.98	5.44	4.76	5.33	5.76	6.41	6.41	5.59	6.48	7.77	7.73	6.77	7.05	100.00	

6.14

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VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

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CURRENT DATE 3/18/80 TIME 13.00.01

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

TWENTY-FOUR HOUR WIND DIRECTION REPORT
 ELEVATION 150.00'

HRS	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	TOTAL	PCT.TOTAL
1	61	63	71	58	49	56	63	38	41	44	71	59	58	66	66	70	934	35.07
2	42	34	27	50	41	30	33	27	26	35	30	33	46	32	38	38	562	21.10
3	24	26	28	14	22	15	11	21	16	21	15	20	26	34	23	24	342	12.84
4	18	19	9	12	12	12	8	17	14	19	20	9	12	18	17	17	233	8.75
5	16	12	4	10	9	10	6	6	13	11	7	11	13	14	14	11	167	6.27
6	6	3	2	4	8	4	1	8	12	7	4	6	8	8	9	7	97	3.64
7	9	4	4	2	0	7	2	8	8	14	1	6	5	6	7	8	91	3.42
8	6	5	2	2	3	2	3	2	8	8	1	3	1	4	7	10	67	2.52
9	5	0	2	0	0	3	2	5	5	4	2	2	4	8	4	11	57	2.14
10	4	2	0	1	1	0	0	4	2	4	2	2	1	2	4	1	30	1.13
11	1	1	1	0	2	0	2	1	7	1	0	1	1	2	1	2	23	0.86
12	1	0	0	0	0	1	0	4	7	2	0	0	1	2	1	1	20	0.75
13	0	1	0	0	0	0	0	0	4	1	1	2	1	0	0	2	12	0.45
14	1	0	0	0	0	0	0	1	3	1	0	0	0	0	0	3	9	0.34
15	0	0	0	0	0	0	0	2	2	0	0	0	1	0	0	0	5	0.19
16	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	3	0.11
17	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	3	0.11
18	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0	4	0.15
19	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	0.08
20	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0.08
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
TOTAL	194	170	150	153	147	140	131	146	177	174	154	154	179	197	191	206	2663	100.00
PCT.TOTAL	7.29	6.38	5.63	5.75	5.52	5.26	4.92	5.48	6.65	6.53	5.78	5.78	6.72	7.40	7.17	7.74	100.00	

6.15

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VIRGINIA ELECTRIC & POWER COMPANY
 ENVIRONMENTAL SERVICES METEOROLOGY
 SUMMARY OF METEOROLOGICAL OBSERVATIONS

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CURRENT DATE 3/18/80 TIME 13.00.01

STATION ANNA SITE 1
 FOR PERIOD 1/ 1/78 THROUGH 12/31/78

HOURLY TEMPERATURE/MOISTURE AVERAGES FOR DAILY INTERVALS

OBSERVATION HOUR	DELTA T	AMBIENT	DEW POINT	DEW POINT SPREAD	AMBIENT PRESSURE
1	0.79 (230)	47.71 (290)	44.41 (262)	5.18 (258)	0.0 (0)
2	0.78 (230)	47.01 (290)	44.39 (261)	4.46 (257)	0.0 (0)
3	0.76 (230)	46.29 (290)	44.17 (262)	3.93 (258)	0.0 (0)
4	0.76 (230)	45.76 (290)	43.85 (263)	3.64 (259)	0.0 (0)
5	0.68 (230)	45.31 (290)	44.27 (259)	3.05 (255)	0.0 (0)
6	0.70 (230)	44.85 (290)	44.45 (256)	2.67 (252)	0.0 (0)
7	0.63 (229)	44.51 (290)	44.17 (255)	2.59 (251)	0.0 (0)
8	0.39 (229)	44.99 (290)	44.06 (256)	3.28 (252)	0.0 (0)
9	-0.45 (229)	46.87 (289)	44.35 (255)	4.92 (251)	0.0 (0)
10	-0.77 (228)	49.53 (288)	44.40 (255)	7.58 (250)	0.0 (0)
11	-1.06 (227)	52.03 (286)	44.08 (256)	10.40 (249)	0.0 (0)
12	-1.21 (226)	54.26 (284)	43.39 (259)	12.91 (250)	0.0 (0)
13	-1.27 (225)	55.79 (284)	42.89 (257)	15.21 (248)	0.0 (0)
14	-1.29 (224)	57.04 (284)	42.54 (259)	16.82 (249)	0.0 (0)
15	-1.17 (225)	57.88 (286)	42.06 (263)	17.74 (255)	0.0 (0)
16	-0.97 (226)	58.22 (288)	42.14 (264)	18.03 (258)	0.0 (0)
17	-0.67 (227)	57.89 (288)	43.31 (260)	17.05 (255)	0.0 (0)
18	-0.19 (227)	56.54 (289)	43.59 (263)	15.25 (258)	0.0 (0)
19	0.30 (227)	54.79 (289)	44.16 (264)	12.80 (259)	0.0 (0)
20	0.82 (226)	52.98 (288)	44.94 (264)	10.15 (258)	0.0 (0)
21	1.06 (227)	51.41 (288)	45.18 (264)	8.29 (258)	0.0 (0)
22	0.96 (227)	50.76 (288)	44.86 (264)	7.54 (258)	0.0 (0)
23	0.89 (228)	49.38 (289)	44.68 (264)	6.64 (259)	0.0 (0)
24	0.84 (228)	48.45 (289)	44.57 (264)	5.80 (259)	0.0 (0)
AVG. DAILY VALUE	0.07	50.83	43.95	9.00	0.0
MAXIMUM 1-HR VALUE	10.73	93.73	80.00	47.38	0.0
MINIMUM 1-HR VALUE	-0.52	4.46	-8.05	-47.27	0.0

6.16

PRECIPITATION SUMMARY

PRECIPITATION (IN)	MAXIMUM					TOTAL
	1 HOUR	6 HOUR	12 HOUR	18 HOUR	24 HOUR	
365 DAYS	0.90 (0)	1.55 (0)	1.81 (0)	1.89 (0)	2.14 (0)	37.22

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VIRGINIA ELECTRIC POWER COMPANY
ENVIRONMENTAL SERV. METEOROLOGY
SUMMARY OF METEOROLOGICAL OBSERVATIONS

CURRENT DATE 3/18/80 TIME 13.00.01

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STATION ANNA SITE 1
FOR PERIOD 1/ 1/78 THROUGH 12/31/78

DATA RECOVERY FOR THE PERIOD

POSSIBLE NO. OF HOURS 8760.

VARIABLE	WSH	WDH	SGH	WSL	WDL	SGL	TEM	DEL	DPT	RFL	PRE
PCT. RECOVERY	97.55	98.61	95.83	98.64	99.03	92.67	78.96	62.39	71.34	93.36	0.0