

SEMI-ANNUAL EFFLUENT RELEASE REPORT  
FOR CALVERT CLIFFS NUCLEAR POWER PLANT

FIRST HALF - 1984

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**CALVERT CLIFFS NUCLEAR POWER PLANT**  
**EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1/**  
**SUPPLEMENTAL INFORMATION**

Facility - Calvert Cliffs Nuclear Power Plant  
Licensee - Baltimore Gas & Electric Company

**I. REGULATORY LIMITS**

A. Fission and Activation Gases:

1. The instantaneous release rate of gross activity, except for I-131 and particulates with half-lives longer than eight days shall not exceed

$$\sum \frac{Q_i}{(3.85 \times 10^5) (MPC)_i} \leq 1$$

where  $Q_i$  is the release rate in Ci/sec for isotope  $i$  and  $MPC_i$  is the maximum permissible concentration of isotope  $i$  as defined in Appendix B, Table II, Column  $i$ , 10 CFR 20.

2. The release rates of gross gaseous activity shall not exceed 16 percent of the values specified in I.A.1. above when averaged over any calendar quarter. See Table 1A, A3.
3. The release rates of gross gaseous activity shall not exceed 8 percent of the values specified in I.A.1. above when averaged over 12 consecutive months. See Table 1A, A4.

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1/ Submitted in accordance with Section 5.6.1.b of Appendix B of the Environmental Technical Specifications

B. Iodines and Particulates, Half-Lives >8 Days:

1. The release rate from the main vents of I-131 and particulates with half-lives greater than eight days released to the environment as part of airborne effluents shall not exceed 2.0 uCi/sec.
2. The release rates of I-131 and particulates shall not exceed 8 percent of the value specified in I.B.1. above when averaged over any calendar quarter. See Table 1A, B3.
3. It should be noted that "iodines" as used here includes only iodine-131 since the Technical Specifications only refer to it specifically. Such other iodines, i.e., iodine-133, iodine-135, etc., are treated as gross activity and are included in I.A.1. and I.A.2.
4. The release rates of I-131 and particulates shall not exceed 4 percent of the values specified in I.B.1 above when averaged over any 12 consecutive months. See Table 1A, B4.

C. Liquid Effluents:

1. The release rate of radioactive liquid effluents, excluding tritium and noble gases, shall not exceed 10 curies per unit during any calendar quarter.
2. The radioactivity release concentrations in liquid effluents from the plant shall not exceed the values specified in 10 CFR, Part 20, Appendix B, for unrestricted areas.

II. MAXIMUM PERMISSIBLE CONCENTRATIONS

The MPC's used for radioactive materials released in liquid and gaseous effluents are in accordance with Technical Specifications and/or are derived from the use of notes to Appendix B, 10 CFR, Part 20. In all cases, the most restrictive (lowest) MPC found for each isotope is used regardless of solubility.

The following limits were used to calculate the percent of applicable limit in

Table 2A:

A. Fission and Activation Products - Limit used  $1 \times 10^{-7}$  uCi/ml. This limit was used as given in the notes to Appendix B, Table II, Column 2 of 10 CFR 20.

B. Tritium - Limit used  $3 \times 10^{-3}$  uCi/ml.

This limit was used as given in Appendix B, Table II, Column 2 of 10 CFR 20.

C. Dissolved and Entrained Gases - Limit used  $3 \times 10^{-6}$  uCi/ml.

This limit was used as given in Appendix B, Table II, Column 2 of 10 CFR 20.

**III. AVERAGE ENERGY - not applicable**

**IV. MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY**

**A. Fission and Activation Gases:**

**1. Batch Releases**

Prior to each batch release of gas from a pressurized gas decay tank, a sample is collected and analyzed for each significant isotope using a Ge(Li) detector. The total activity released is based on the pressure/volume relationship (gas laws) of the tank prior to and after the release.

Prior to and after the release of gas as a result of purging containment, samples are collected and analyzed for each significant isotope using a Ge(Li) detector. The total activity released is based on containment volume and purge rate with activity buildup while purging is being considered.

2. Continuous releases

During the release of gas from the main vents, samples are collected and analyzed at least weekly for each significant isotope using a Ge(Li) detector. The total activity released for the week is based on the total sample activity decay corrected to the midpoint of the sample period and multiplied by the main vent flow for the week.

B. Iodine and Particulates:

1. Batch releases

Total activity released from a pressurized gas decay tank as iodines and particulates is measured by the same methods as fission and activation gases.

Prior to and after the release of gas as a result of purging containment, iodines are sampled using a charcoal filter and particulates are sampled using a particulate filter. These filters are analyzed for each significant isotope using a Ge(Li) detector. The total activity released is based on containment volume and purge rate with activity buildup while purging is being considered.

2. Continuous releases

During the release of gas from the main vents, samples of iodines and particulates are collected using a charcoal and particulate filter respectively. The filters are removed weekly and are analyzed for each significant isotope using a Ge(Li) detector. The total activity released for the week is based on the activity found on the filters multiplied by the main vent flow for the week. The activity on the filters is corrected for decay and buildup during the sample period. These weekly particulate filters are then composited to form monthly and quarterly composites at which time gross alpha and strontium 89 and 90 are analyzed.

C. Liquid Effluents:

1. Batch releases

Prior to the release of liquid from a monitor tank, a sample is collected and analyzed for the concentration of each significant gamma energy peak to demonstrate compliance with Section I.C.1 above using the water flow rate in each discharge conduit into which the effluent is discharged at the time of discharge. The total activity released in each batch is determined by multiplying the volume released times the concentration of each isotope. The actual volume released is based on the difference in tank levels prior to and after the release. A proportional composite sample is also withdrawn for each week's releases, and this is used in turn to prepare monthly and quarterly composites for use in analyses of gross alpha and strontium 89 and 90.

2. Continuous releases

Steam generator blowdown is sampled daily and these samples are used in turn to prepare a weekly blowdown composite based on each day's blowdown. The weekly composite is analyzed for each significant isotope using a Ge(Li) detector and these results are multiplied by the actual quantity of blowdown to determine the total activity released. The weekly composite is also used to prepare monthly and quarterly composites for use in analyses of tritium, gross alpha, and strontium 89 and 90.

D. Estimation of Total Error:

Total error on all releases was estimated using as a minimum the random counting error associated with typical releases. In addition to the random error, the detector to sample geometry systematic error during gamma counting was determined. This included an estimate of sample volume error and sample peaking error. More specifically the following other systematic errors were also examined:

1. Liquid

- a. Error in volume of liquid released prior to dilution during batch releases.
- b. Error in volume of liquid released via steam generator blowdown.
- c. Error in amount of dilution water used during the reporting period.

2. Gases

- a. Error in main vent release flow.
- b. Error in sample flow rate.
- c. Error in containment purge release flow.
- d. Error in gas decay tank pressure.

Where errors could be estimated they were usually considered additive.

V. BATCH RELEASES

	<u>1984</u>	
	<u>1st</u> <u>Quarter</u>	<u>2nd</u> <u>Quarter</u>
A. <u>Liquid:</u>		
1. Number of batch releases	6.60E+01	4.10E+01
2. Total time period for batch release (hours)	3.59E+02	3.29E+02
3. Maximum time period for a batch release (min)	1.15E+03	1.19E+03
4. Average time period for batch releases (min)	3.27E+02	4.81E+02
5. Minimum time period for a batch release (min)	2.00E+01	2.10E+01
6. Average stream flow during periods of effluent into a flowing stream (liters/min of dilution water)	4.64E+06	4.64E+06
B. <u>Gaseous:</u>		
1. Number of batch releases	3.70E+01	4.10E+01
2. Total time period for batch releases (min)	6.86E+03	8.40E+04
3. Maximum time period for a batch release (min)	3.15E+02	1.12E+04
4. Average time period for batch release (min)	1.85E+02	2.05E+03
5. Minimum time period for a batch release (min)	5.00E+00	2.00E+01



VI. ABNORMAL RELEASES

	<u>1st</u> <u>Quarter</u>	<u>2nd</u> <u>Quarter</u>
A. <u>Liquid:</u>		
1. Number of releases	- 0 -	- 0 -
2. Total activity released (Curies) <sup>2/</sup>	- 0 -	- 0 -
B. <u>Gaseous:</u>		
1. Number of releases	- 0 -	- 0 -
2. Total activity releases (Curies)	- 0 -	- 0 -

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<sup>2/</sup> Excluding tritium and dissolved gases

TABLE 1A - REG GUIDE 1.21  
CALVERT CLIFFS NUCLEAR POWER PLANT  
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT  
FIRST HALF - 1984

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

A. Fission and activation gases	Units	1st Quarter	2nd Quarter	Est. Total Error, %
1. Total Release	Ci	1.57E+03	8.44E+02	2.15E+01
2. Average release rate for period	uCi/sec	2.00E+02	1.07E+02	
3. Percent of tech. spec. limit (1)	%	1.17E+00	6.57E-01	
4. Percent of tech. spec. limit (2)	%	2.53E+00	2.46E+00	
B. Iodines				
1. Total iodine - 131	Ci	1.47E-02	2.26E-02	1.84E+01
2. Average release rate for period	uCi/sec	1.87E-03	2.87E-03	
3. Percent of tech. spec. limit (3)	%	1.17E+00	1.80E+00	
4. Percent of tech. spec. limit (4)	%	4.21E+00	4.07E+00	
C. Particulates				
1. Particulates with half lives greater than 8 days	Ci	6.64E-06	4.21E-05*	1.84E+01
2. Average release rate for period	uCi/sec	8.45E-07	5.35E-06	
3. Percent of tech. spec. limit (3)	%	5.28E-04	3.35E-03	
4. Percent of tech. spec. limit (4)	%	2.88E-01	7.57E-03	
5. Gross alpha radioactivity	Ci	< 2.74E-06	< 1.22E-05	
D. Tritium				
1. Total Release	Ci	1.05E-01	6.18E-02	2.18E+01
2. Average release rate for period	uCi/sec	1.34E-02	7.86E-03	
3. Percent of tech. spec. limit (1)	%	1.08E-04	6.38E-05	

- (1) Percent of I.A.2 for each quarter
- (2) Percent of I.A.3 for previous 12 months
- (3) Percent of I.B.2 for each quarter
- (4) Percent of I.B.3 for previous 12 months
- \* Does not include strontium 89, 90 values

TABLE IC REG GUIDE 1.21  
CALVERT CLIFFS NUCLEAR POWER PLANT  
FIRST HALF - 1984

GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

1.	Fission and activation gases	Units	Continuous Mode		Batch Mode	
			1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
	krypton - 85m	Ci			1.11E-03	5.31E-03
	krypton - 88	Ci			1.92E-02	1.31E-02
	xenon - 131m	Ci			4.95E+00	5.79E+00
	xenon - 133	Ci	6.54E+02	5.08E+02	8.16E+02	2.74E+02
	xenon - 133m	Ci	3.80E-01	6.49E-01	2.22E+00	3.06E+00
	xenon - 135	Ci	8.64E+01	4.77E+01	2.38E+00	3.74E+00
	argon - 41	Ci			5.74E-02	2.17E-02
	krypton - 85	Ci			3.12E+00	1.20E+00
	krypton - 87	Ci			1.65E-03	1.64E-03
	Total For Period	Ci	7.41E+02	5.56E+02	8.29E+02	2.88E+02
2.	Halogens					
	iodine - 131	Ci	1.47E-02	2.14E-02	2.48E-05	1.21E-03
	iodine - 132	Ci		9.90E-05	1.07E-05	1.75E-05
	iodine - 133	Ci	1.26E-02	8.44E-03	5.17E-05	3.11E-05
	iodine - 135	Ci	4.38E-04	1.89E-03	1.26E-05	9.05E-07
	bromine - 82	Ci			2.92E-05	2.32E-05
	Total For Period	Ci	2.77E-02	3.18E-02	1.29E-04	1.28E-03

TABLE 1C REG GUIDE 1.21 (CONT'D)  
CALVERT CLIFFS NUCLEAR POWER PLANT  
FIRST HALF - 1984

GASEOUS EFFLUENTS - GROUND LEVEL RELEASES

3. Particulates	Units	Continuous Mode		Batch Mode	
		1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
strontium - 89	Ci	< 1.10E-06	**		
strontium - 90	Ci	6.76E-07	**		
rubidium - 88*	Ci			1.29E-02	1.20E-02
cobalt - 58	Ci		8.94E-06		1.12E-05
cesium - 138*	Ci			9.94E-05	3.29E-05
cesium - 134	Ci			4.04E-07	4.64E-06
cesium - 137	Ci			4.46E-06	1.74E-05
Total For Period	Ci	1.78E-06	8.94E-06	1.30E-02	1.21E-02

\* Particulates with half lives less than eight days.

\*\* Strontium results will be included in an updated report.

TABLE 2A - REG GUIDE 1.21  
CALVERT CLIFFS NUCLEAR POWER PLANT  
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT  
FIRST HALF - 1984

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

A. Fission and activation products	Units	1st Quarter	2nd Quarter	Est. Total Error, %
1. Total Release (not including tritium, gases, alpha)	Ci	2.75E-01	7.34E-01	2.16E+01
2. Average diluted concentration during period	uCi/ml	4.79E-10	1.67E-09	
3. Percent of applicable limit	%	4.79E-01	1.67E+00	
<b>B. Tritium</b>				
1. Total Release	Ci	1.99E+02	1.32E+02	1.81E+01
2. Average diluted concentration during period	uCi/ml	3.47E-07	3.00E-07	
3. Percent of applicable limit	%	1.16E-02	1.00E-02	
<b>C. Dissolved and entrained gases</b>				
1. Total Release	Ci	2.21E-01	7.24E-01	2.00E+01
2. Average diluted concentration during period	uCi/ml	3.84E-10	1.65E-09	
3. Percent of applicable limit	%	1.28E-02	5.50E-02	
<b>D. Gross alpha radioactivity</b>				
1. Total Release	Ci	< 1.29E-04	< 5.81E-04	3.00E+00
<b>E. Volume of Waste Releases (prior to dilution)</b>				
	liters	8.03E+06	7.54E+06	3.00E+00
<b>F. Volume of dilution water used during period</b>				
	liters	5.74E+11	4.39E+11	1.40E+01

TABLE 2B REG GUIDE 1.21  
CALVERT CLIFFS NUCLEAR POWER PLANT  
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

FIRST HALF - 1984

LIQUID EFFLUENTS

Nuclides Released	Units	Continuous Mode (1)		Batch Mode	
		1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
strontium - 89	Ci			5.46E-03	*
strontium - 90	Ci			7.40E-04	*
cesium - 134	Ci			5.51E-02	4.18E-02
cesium - 137	Ci			1.28E-01	8.60E-02
iodine - 131	Ci			2.97E-02	3.28E-02
cobalt - 58	Ci			2.79E-02	2.47E-01
cobalt - 60	Ci			1.36E-02	4.67E-02
iodine - 132	Ci				7.85E-04
manganese - 54	Ci			1.29E-03	9.77E-03
chromium - 51	Ci				8.62E-02
zirconium - 95	Ci			8.55E-04	2.10E-02
niobium - 95	Ci			1.96E-03	3.48E-02
molybdenum - 99	Ci			6.36E-06	1.08E-03
barium - 140	Ci			2.89E-05	
antimony - 124	Ci				2.07E-03
iodine - 133	Ci			4.64E-03	2.51E-02
antimony - 125	Ci			6.67E-03	2.48E-02
cobalt - 57	Ci			6.51E-05	3.66E-05
silver - 110m	Ci			4.05E-03	3.89E-02
lanthanum - 140	Ci				2.10E-04
tin - 113	Ci			3.16E-05	1.39E-03
ruthenium - 103	Ci				4.30E-03
niobium - 97	Ci			1.35E-03	1.95E-02
iron - 59	Ci				7.09E-04

TABLE 2B REG GUIDE 1.21 (CONT'D)

CALVERT CLIFFS NUCLEAR POWER PLANT

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

FIRST HALF - 1984

LIQUID EFFLUENTS

Nuclides Released	Units	Continuous Mode (1)		Batch Mode	
		1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
zirconium - 97	Ci				1.05E-03
tellurium - 132	Ci				4.26E-04
cerium - 141	Ci				1.35E-03
cerium - 144	Ci				6.28E-03
unidentified	Ci			< 4.02E-03	< 3.77E-03
Total For Period	Ci			2.85E-01	8.61E-02

\* Strontium results will be included in an updated report.

TABLE 2B REG GUIDE 1.21 (CONT'D)  
CALVERT CLIFFS NUCLEAR POWER PLANT  
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT  
FIRST HALF - 1984

LIQUID EFFLUENTS

Nuclides Released	Units	Continuous Mode (1)		Batch Mode	
		1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
Xenon - 133	Ci			2.15E-01	1.16E-03
Xenon - 135	Ci			2.38E-03	8.65E-05
Xenon - 133m	Ci			2.14E-03	

(1) Continuous mode releases, i.e., nuclides released, are less than "unidentified" unless otherwise noted.



TABLE 3A  
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT  
FIRST HALF - 1984

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

1. Type of Waste	Units	6-Month Period	Est. Total Error %
a. Spent resin, filter sludge evaporator bottoms, etc.	m <sup>3</sup>	1.34E+01	
	Ci	2.34E+02	2.00E+01
b. Dry compressible waste, contaminated equipment, etc.	m <sup>3</sup>	3.96E+02	
	Ci	1.87E+01	5.00E+01
c. Irradiated components, control rods, etc.	m <sup>3</sup>		
	Ci		---
d. Other (describe)	m <sup>3</sup>		
	Ci		

2. Estimate of major nuclides (by type of waste)\*

a. Cobalt	- 58	8.73E+00%
Cesium	- 137	3.92E+01%
Cesium	- 134	2.04E+01%
Manganese	- 54	3.87E+00%
Cobalt	- 60	9.15E+00%
Antimony	- 125	1.85E+00%
Strontium	- 90	2.05E-01%
Iodine	- 131	1.25E+01%
Cobalt	- 57	4.10E-01%
Nickel	- 63	3.67E+00%
b. Cobalt	- 60	3.97E+01%
Cobalt	- 58	2.98E+00%
Cesium	- 137	1.13E+01%
Cesium	- 134	3.00E+00%
Manganese	- 54	2.66E+00%
Nickel	- 63	3.67E+01%

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
13	Motor surface transit	Barnwell, S. C.
12	Motor surface transit	Richland, Wash.

\* Only nuclides greater than 1% were reported.

CALVERT CLIFFS NUCLEAR POWER PLANT

METEOROLOGICAL DATA

JANUARY 1, 1984 TO MARCH 31, 1984

WIND FREQUENCY DISTRIBUTION

BY STABILITY CLASS

PERIODS OF RELEASE ONLY

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS A (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN NUMBER OF OCCURRENCES  
 1/01/84 TO 3/31/84  
 WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	1	0	0	0	0	0	1	4.83
NNE	0	0	0	0	0	0	2	0	0	0	0	0	2	3.67
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	2	0	0	0	0	0	0	2	2.56
SSE	0	0	0	0	0	1	0	0	0	0	0	0	1	2.54
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	1	0	0	0	0	1	6.48
NNW	0	0	0	0	0	0	1	1	2	0	0	0	4	6.53
TOTAL	0	0	0	0	0	3	4	2	2	0	0	0	11	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS A (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

## WIND FREQUENCY DISTRIBUTION

## FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

## WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	POW TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	4.83
NNE	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.10	3.67
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.10	2.56
SSE	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.54
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSH	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SH	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
HSH	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
H	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	6.48
NNW	.00	.00	.00	.00	.00	.00	.05	.05	.10	.00	.00	.00	.20	6.53
TOTAL	.00	.00	.00	.00	.00	.15	.20	.10	.10	.00	.00	.00	.54	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	POW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	1	0	0	0	0	0	0	0	1	2.41
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	0	1	1	0	0	0	0	0	0	2	2.62
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	0	0	0	0	0	2	1	0	0	0	0	0	3	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

## WIND FREQUENCY DISTRIBUTION

## FREQUENCY IN PERCENT OF TOTAL

1/21/84 TO 3/31/84

## WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1	1.10-1.50	1.60-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	POW TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.41
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.10	2.82
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.10	.05	.00	.00	.00	.00	.00	.15	

NUMBER OF CALMS  
0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS C (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	2	0	0	0	0	0	0	2	2.88
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	2	0	0	0	0	0	2	3.35
SSI	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SN	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	0	0	0	0	0	2	2	0	0	0	0	0	4	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)



BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS C (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

## WIND FREQUENCY DISTRIBUTION

## FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.200-.500	.510-.750	.760-1.10	1.10-1.50	1.50-2.00	2.10-3.00	3.10-5.00	5.10-7.10	7.10-10.10	10.1-13.1	13.1-18.0	>18.0	RCM TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.10	2.88
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.10	3.35
SSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.10	.10	.00	.00	.00	.00	.00	.20	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS D (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.1- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	1	1	1	0	0	0	0	0	0	3	1.79
NNE	0	0	0	0	1	0	0	0	0	0	0	0	1	1.70
NE	0	0	0	1	2	0	0	0	0	0	0	0	3	1.62
ENE	0	0	1	0	0	0	0	0	0	0	0	0	1	1.03
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	3	0	0	0	0	0	0	3	2.64
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	0	0	1	0	0	0	0	0	0	1	2.82
SW	0	0	0	0	0	3	1	0	0	0	0	0	4	2.81
WSW	0	0	0	0	1	0	1	0	0	0	0	0	2	2.91
W	0	0	0	0	1	2	0	0	0	0	0	0	3	1.95
WNW	0	0	0	0	0	3	3	0	0	0	0	0	6	3.46
NW	0	0	0	1	1	1	3	0	0	0	0	0	6	2.58
NNW	0	0	0	0	2	0	2	0	0	0	0	0	4	2.66
TOTAL	0	0	1	3	9	14	10	0	0	0	0	0	37	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL.  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS D (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

## WIND FREQUENCY DISTRIBUTION

## FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.00	.00	.05	.05	.05	.00	.00	.00	.00	.00	.00	.15	1.79
NNE	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	1.70
NE	.00	.00	.00	.05	.10	.00	.00	.00	.00	.00	.00	.00	.15	1.62
ENE	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.03
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.15	2.64
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSH	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.82
SJ	.00	.00	.00	.00	.00	.15	.05	.00	.00	.00	.00	.00	.20	2.81
WSH	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.00	.10	2.91
W	.00	.00	.00	.00	.05	.10	.00	.00	.00	.00	.00	.00	.15	1.95
WNW	.00	.00	.00	.00	.00	.15	.15	.00	.00	.00	.00	.00	.29	3.46
NW	.00	.00	.00	.05	.05	.05	.15	.00	.00	.00	.00	.00	.29	2.58
NNW	.00	.00	.00	.00	.10	.00	.10	.00	.00	.00	.00	.00	.20	2.56
TOTAL	.00	.00	.05	.15	.44	.68	.49	.00	.00	.00	.00	.00	1.81	
NUMBER OF CALMS														
NUMBER OF INVALID HOURS	136													
NUMBER OF VALID HOURS	2048													

0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS E (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

## WIND FREQUENCY DISTRIBUTION

## FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.20-		.510-		.750-		1.10-		1.50-		1.60-		2.10-		3.10-		5.10-		7.10-		10.1-		13.1-		>18.0		ROW TOTAL	MEAN SPEED
	.500	.750	1	1.50	1	1.50	2	2	3	3	5	5	7	7	10	10	13	13	18	18	18	18	18	18	18	18		
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1.54	
NE	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	.69		
ENE	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	.95			
E	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	.98			
ESE	0	0	0	1	0	1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2.53			
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5	4.02			
SSE	0	0	0	0	0	0	1	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2.08			
S	0	0	0	1	1	0	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2.27			
SSW	0	1	2	1	4	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1.57			
SW	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1.20			
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.00		
W	0	0	0	0	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2.21			
WNW	0	0	0	0	0	0	1	11	1	11	1	0	0	0	0	0	0	0	0	0	0	0	0	13	2.55			
NW	0	0	0	0	1	0	2	4	4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	16	3.04			
NNW	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.37			
TOTAL	1	1	11	7	12	30	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79				
NUMBER OF CALMS	0																											
NUMBER OF INVALID HOURS	136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)																											
NUMBER OF VALID HOURS	2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)																											

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS E (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

## WIND FREQUENCY DISTRIBUTION

## FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18 0	ROW TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00	.10	1.54
NE	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.69
ENE	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.85
E	.00	.00	.10	.05	.00	.00	.00	.00	.00	.00	.00	.00	.15	.98
ESE	.00	.00	.00	.05	.10	.10	.05	.00	.00	.00	.00	.00	.29	2.53
SE	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	.00	.00	.24	4.02
SSE	.00	.00	.00	.05	.10	.20	.00	.00	.00	.00	.00	.00	.34	2.08
S	.00	.00	.05	.05	.00	.15	.05	.00	.00	.00	.00	.00	.29	2.27
SSW	.00	.05	.10	.05	.20	.10	.00	.00	.00	.00	.00	.00	.49	1.57
SW	.00	.00	.10	.10	.00	.00	.00	.00	.00	.00	.00	.00	.20	1.20
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.05	.10	.00	.00	.00	.00	.00	.00	.15	2.21
WNW	.00	.00	.00	.00	.05	.54	.05	.00	.00	.00	.00	.00	.63	2.55
NW	.00	.00	.05	.00	.10	.20	.44	.00	.00	.00	.00	.00	.78	3.04
NNW	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.37
TOTAL	.05	.05	.54	.34	.59	1.46	.83	.00	.00	.00	.00	.00	3.86	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS F (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	1	0	0	0	0	0	0	0	0	0	1	1.07
ESE	0	0	1	1	0	0	0	0	0	0	0	0	2	1.37
SE	0	0	1	1	0	0	0	0	0	0	0	0	2	1.25
SSE	0	0	0	0	0	1	0	0	0	0	0	0	1	2.64
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	1	1	0	0	0	0	0	0	0	2	1.63
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	0	0	3	3	1	1	0	0	0	0	0	0	8	
NUMBER OF CALCS	0													
NUMBER OF INVALID HOURS	136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 MIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS F (30-200 FOOT)  
 MINDS AT 33 FOOT LEVEL

MIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

MIND SPEED (M/S)

DIRECTION	>18.0	13.1-18.0	10.1-13.0	7.1-10.0	5.1-7.0	3.1-5.0	2.1-3.0	1.6-2.0	1.1-1.5	0.7-1.0	0.5-0.6	0.3-0.4	0.1-0.2	0.0	TOTAL
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSM	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SM	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MSM	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
M	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MNM	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MNM	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39

MEAN  
 TOTAL  
 SPEED

REVISION 0

NUMBER OF CALMS 0  
 NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)  
 NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS G (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSH	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													



BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS G (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NUMBER OF CALTS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

WIND FREQUENCY DISTRIBUTION

ALL STABILITY CLASSES

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS ALL (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

REVISION 0

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1	1.10-1.50	1.60-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	ROW TOTAL	MEAN SPEED
N	0	3	7	16	14	23	27	4	2	0	0	0	98	2.71
NNE	1	4	17	31	30	13	11	7	6	0	0	0	114	2.02
NE	1	3	10	11	9	11	9	3	1	0	0	0	58	2.21
ENE	0	4	8	17	8	10	1	0	0	0	0	0	48	1.53
E	1	1	17	16	8	9	4	0	0	0	0	0	56	1.64
ESE	0	2	5	20	30	23	7	0	0	0	0	0	87	1.97
SE	0	0	13	25	24	39	28	1	0	0	0	0	130	2.36
SSE	0	0	5	28	75	67	15	0	0	0	0	0	140	2.23
S	0	1	5	13	16	52	18	0	0	0	0	0	107	2.34
SSW	0	8	14	37	36	52	20	0	0	0	0	0	173	2.02
SW	0	3	9	28	16	30	7	0	0	0	0	0	83	1.83
WSW	0	3	11	16	15	19	9	0	0	0	0	0	73	1.89
W	2	3	5	17	20	54	31	0	0	0	0	0	132	2.35
WNW	1	2	7	17	30	101	96	3	0	0	0	0	287	2.78
NW	1	5	11	41	47	110	115	17	8	0	0	0	345	2.99
N. N.	0	5	12	15	13	4	29	6	16	0	0	0	127	3.32
TOTAL	11	47	156	335	337	667	427	41	27	0	0	0	2048	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS ALL (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.10	.15	.34	.78	.68	1.12	1.32	.20	.10	.00	.00	.00	4.79	2.71
NNE	.05	.20	.83	1.51	1.46	.63	.54	.34	.00	.00	.00	.00	5.57	2.02
NE	.05	.15	.49	.54	.44	.54	.44	.15	.05	.00	.00	.00	2.83	2.21
ENE	.00	.20	.39	.83	.29	.49	.05	.00	.00	.00	.00	.00	2.34	1.53
E	.05	.05	.83	.78	.39	.44	.20	.00	.00	.00	.00	.00	2.73	1.64
ESE	.00	.10	.24	.98	1.46	1.12	.34	.00	.00	.00	.00	.00	4.25	1.97
SE	.00	.00	.63	1.22	1.17	1.90	1.37	.05	.00	.00	.00	.00	6.35	2.36
SSE	.00	.00	.24	1.37	1.22	3.27	.73	.00	.00	.00	.00	.00	6.84	2.23
S	.00	.05	.24	.63	.88	2.54	.88	.00	.00	.00	.00	.00	5.22	2.34
SSW	.10	.39	.68	1.81	1.46	2.54	.98	.00	.00	.00	.00	.00	7.96	2.02
SW	.00	.15	.44	1.37	.78	.98	.34	.00	.00	.00	.00	.00	4.05	1.83
WSW	.00	.15	.54	.78	.73	.93	.44	.00	.00	.00	.00	.00	3.56	1.89
W	.10	.15	.24	.83	.98	2.64	1.51	.00	.00	.00	.00	.00	6.45	2.35
WNW	.05	.10	.34	.83	1.46	6.40	4.69	.15	.00	.00	.00	.00	14.01	2.78
NW	.05	.24	.54	1.51	2.29	5.37	5.62	.83	.39	.00	.00	.00	16.85	2.99
NNW	.00	.24	.59	.59	.63	1.66	1.42	.29	.78	.00	.00	.00	6.20	3.32
TOTAL	.54	2.29	7.62	16.36	16.46	32.57	20.85	2.00	1.32	.00	.00	.00	100.00	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS A (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN NUMBER OF OCCURRENCES  
 1/01/84 TO 3/31/84  
 WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	1	2	1	3	4	2	0	0	0	13	4.74
NNE	0	0	0	0	1	0	4	7	0	0	0	0	12	4.98
NE	0	0	0	0	0	1	0	0	0	0	0	0	1	2.15
ENE	0	0	0	0	3	0	0	0	0	0	0	0	3	1.71
E	0	0	0	0	2	3	0	0	0	0	0	0	5	2.26
ESE	0	0	0	1	0	0	0	0	0	0	0	0	1	1.16
SE	0	0	0	0	0	2	2	0	0	0	0	0	4	2.97
SSE	0	0	0	1	1	2	1	0	0	0	0	0	5	2.42
S	0	0	0	1	1	1	5	0	0	0	0	0	8	3.15
SSW	0	0	0	1	1	9	11	0	0	0	0	0	22	3.04
SW	0	0	0	0	0	3	0	0	0	0	0	0	3	2.28
WSW	0	0	0	1	0	2	0	0	0	0	0	0	3	1.95
W	0	0	0	1	0	0	0	0	0	0	0	0	1	1.16
WNW	0	0	0	0	0	1	9	0	0	0	0	0	10	3.37
NW	0	0	0	0	0	3	16	5	8	0	0	0	32	5.32
NNW	0	0	0	0	0	3	2	5	16	0	0	0	25	6.8E
TOTAL	0	0	0	7	11	31	53	21	26	0	0	0	149	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2045 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS A (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.00	.00	.05	.10	.00	.15	.20	.10	.00	.00	.00	.63	4.74
NNE	.00	.00	.00	.00	.05	.00	.20	.34	.00	.00	.00	.00	.59	4.98
NE	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.15
ENE	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.15	1.71
E	.00	.00	.00	.00	.10	.15	.00	.00	.00	.00	.00	.00	.24	2.26
ESE	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.16
SE	.00	.00	.00	.00	.00	.10	.10	.00	.00	.00	.00	.00	.20	2.97
SSE	.00	.00	.00	.05	.05	.10	.05	.00	.00	.00	.00	.00	.24	2.42
S	.00	.00	.00	.05	.05	.05	.24	.00	.00	.00	.00	.00	.39	3.15
SSW	.00	.00	.00	.05	.05	.44	.54	.00	.00	.00	.00	.00	1.07	3.04
SW	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.15	2.28
WSW	.00	.00	.00	.05	.00	.10	.00	.00	.00	.00	.00	.00	.15	1.95
W	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.16
WNW	.00	.00	.00	.00	.00	.05	.44	.00	.00	.00	.00	.00	.49	3.37
NW	.00	.00	.00	.00	.00	.15	.78	.24	.39	.00	.00	.00	1.56	5.32
NNW	.00	.00	.00	.00	.00	.15	.10	.24	.78	.00	.00	.00	1.27	6.85
TOTAL	.00	.00	.00	.34	.54	1.51	2.59	1.03	1.27	.00	.00	.00	7.28	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.750-1.100	1.100-1.500	1.500-2.100	2.100-3.100	3.100-5.100	5.100-7.100	7.100-10.100	10.100-13.100	13.100-18.000	>18.000	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	1	0	0	0	0	0	0	0	1	1.83
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	1	0	0	0	0	0	0	1	2.41
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	1	3.31
SSW	0	0	0	0	0	3	1	0	0	0	0	0	4	2.77
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	1	0	0	0	0	0	0	0	0	3	2.68
NW	0	0	0	0	0	0	2	0	0	0	0	0	2	3.31
NNW	0	0	0	0	0	0	0	0	0	0	0	0	1	2.37
TOTAL	0	0	0	1	1	5	6	0	0	0	0	0	13	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

1 01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	FCM TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	1.83
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.41
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	3.31
SSW	.00	.00	.00	.00	.00	.15	.05	.00	.00	.00	.00	.00	.20	2.77
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.05	.00	.00	.10	.00	.00	.00	.00	.00	.15	2.68
NW	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.10	3.31
NNW	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.37
TOTAL	.00	.00	.00	.05	.05	.24	.29	.00	.00	.00	.00	.00	.63	
NUMBER OF CALMS														
NUMBER OF INVALID HOURS	136	(TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)												
NUMBER OF VALID HOURS	2048	(TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)												



BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS C (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1.10	1.10-1.50	1.50-2.10	2.10-3.10	3.10-5.10	5.10-7.10	7.10-10.10	10.1-13.1	13.1-18.1	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	1	0	0	0	0	0	0	0	0	0	1	1.03
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	1	0	0	0	0	0	0	1	2.64
SE	0	0	0	0	0	3	0	0	0	0	0	0	3	2.80
SSE	0	0	0	0	0	1	0	0	0	0	0	0	1	2.91
S	0	0	0	0	0	1	6	0	0	0	0	0	7	3.39
SSW	0	0	0	0	0	1	0	0	0	0	0	0	1	2.50
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	1	0	0	0	0	0	0	0	0	1	1.12
W	0	0	0	2	0	0	0	0	0	0	0	0	2	1.48
WNW	0	0	0	1	0	0	0	0	0	0	0	0	1	1.39
NW	0	0	0	0	0	2	2	0	0	0	0	0	4	3.20
NNW	0	0	0	0	0	1	3	0	0	0	0	0	4	3.64
TOTAL	0	0	1	4	1	9	11	0	0	0	0	0	26	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2049 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS C (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.20- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.03
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.54
SE	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.15	2.80
SSE	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.91
S	.00	.00	.00	.00	.00	.05	.29	.00	.00	.00	.00	.00	.34	3.39
SSW	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.50
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.12
W	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.10	1.48
WNW	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.39
NW	.00	.00	.00	.00	.00	.10	.10	.00	.00	.00	.00	.00	.20	3.20
NNW	.00	.00	.00	.00	.05	.00	.15	.00	.00	.00	.00	.00	.20	3.64
TOTAL	.00	.00	.05	.20	.05	.44	.54	.00	.00	.00	.00	.00	1.27	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
CALVERT CLIFFS NUCLEAR SITE  
WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
STABILITY CLASS D (30-200 FOOT)  
WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	1	6	6	15	22	0	0	0	0	0	50	2.94
NNE	0	1	2	10	20	6	3	0	0	0	0	0	42	1.89
NE	0	0	0	3	8	7	4	0	0	0	0	0	22	2.25
ENE	0	0	4	2	2	7	0	0	0	0	0	0	15	1.84
E	1	1	2	3	3	4	2	0	0	0	0	0	16	1.91
ESE	0	0	0	3	5	13	3	0	0	0	0	0	24	2.25
SE	0	0	2	4	8	12	0	0	0	0	0	0	26	1.96
SSE	0	0	0	13	7	11	4	0	0	0	0	0	35	2.06
S	0	0	2	2	4	4	0	0	0	0	0	0	12	1.95
SSW	0	0	1	3	4	12	7	0	0	0	0	0	27	2.57
SW	0	0	0	3	5	9	5	0	0	0	0	0	22	2.42
WSW	0	0	0	4	4	8	7	0	0	0	0	0	23	2.45
W	0	0	1	4	4	22	14	0	0	0	0	0	45	2.59
WNW	0	0	0	0	5	22	43	3	0	0	0	0	73	3.42
NW	0	0	1	5	13	30	32	7	0	0	0	0	88	3.02
NNW	0	0	1	3	5	16	19	1	0	0	0	0	45	2.99
TOTAL	1	2	17	68	103	198	165	11	0	0	0	0	565	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS D (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.20-.500	.510-.750	.750-1.10	1.10-1.50	1.50-2.10	2.10-3.10	3.10-5.10	5.10-7.10	7.10-10.1	10.1-13.1	13.1-18.0	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.00	.05	.29	.29	.73	1.07	.00	.00	.00	.00	.00	2.44	2.94
NNE	.00	.05	.10	.49	.98	.29	.15	.00	.00	.00	.00	.00	2.05	1.89
NE	.00	.00	.00	.15	.39	.34	.20	.00	.00	.00	.00	.00	1.07	2.25
ENE	.00	.00	.20	.10	.10	.31	.00	.00	.00	.00	.00	.00	.73	1.84
E	.05	.05	.10	.15	.15	.20	.10	.00	.00	.00	.00	.00	.78	1.91
ESE	.00	.00	.00	.15	.24	.63	.15	.00	.00	.00	.00	.00	1.17	2.25
SE	.00	.00	.10	.20	.39	.59	.00	.00	.00	.00	.00	.00	1.27	1.96
SSE	.00	.00	.00	.63	.34	.54	.20	.00	.00	.00	.00	.00	1.71	2.06
S	.00	.00	.10	.10	.20	.20	.00	.00	.00	.00	.00	.00	.59	1.95
SSW	.00	.00	.05	.15	.20	.59	.34	.00	.00	.00	.00	.00	1.32	2.57
SW	.00	.00	.00	.15	.24	.44	.24	.00	.00	.00	.00	.00	1.07	2.42
WSW	.00	.00	.00	.20	.20	.39	.34	.00	.00	.00	.00	.00	1.12	2.45
W	.00	.00	.05	.20	.20	1.07	.68	.00	.00	.00	.00	.00	2.30	2.59
WNW	.00	.00	.00	.00	.24	1.07	2.10	.15	.00	.00	.00	.00	3.56	3.42
NW	.00	.00	.05	.24	.63	1.46	1.56	.34	.00	.00	.00	.00	4.30	3.02
NNW	.00	.00	.05	.15	.24	.78	.93	.05	.00	.00	.00	.00	2.20	2.99
TOTAL	.05	.10	.83	3.32	5.03	9.67	8.06	.54	.00	.00	.00	.00	27.59	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS E (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN NUMBER OF OCCURRENCES  
 1/01/84 TO 3/31/84  
 WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	1	2	2	9	6	7	2	0	0	0	0	0	29	1.79
NNE	1	3	11	20	8	7	4	0	0	0	0	0	54	1.57
NE	1	3	7	6	1	3	5	3	1	0	0	0	30	2.39
ENE	0	3	3	11	3	3	1	0	0	0	0	0	24	1.44
E	0	0	13	12	2	2	2	0	0	0	0	0	31	1.45
ESE	0	1	3	13	25	9	4	0	0	0	0	0	55	1.95
SE	0	0	7	19	13	20	26	1	0	0	0	0	86	2.54
SSE	0	0	2	7	9	45	10	0	0	0	0	0	73	2.45
S	0	0	3	7	9	36	5	0	0	0	0	0	60	2.27
SSW	0	4	11	24	22	25	1	0	0	0	0	0	87	1.75
SW	0	1	8	17	4	8	2	0	0	0	0	0	40	1.66
WSW	0	1	8	7	6	8	2	0	0	0	0	0	32	1.74
W	1	2	2	6	14	32	17	0	0	0	0	0	74	2.39
WNW	0	0	4	10	22	108	42	0	0	0	0	0	186	2.63
NW	0	2	6	23	31	72	61	5	0	0	0	0	200	2.72
NNW	0	4	7	7	7	14	5	0	0	0	0	0	44	1.93
TOTAL	4	26	97	198	182	399	189	9	1	0	0	0	1105	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS E (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	> 8.0	ROW TOTAL	MEAN SPEED
N	.05	.10	.10	.44	.29	.34	.10	.00	.00	.00	.00	.00	1.42	1.79
NNE	.05	.15	.54	.98	.39	.34	.20	.00	.00	.00	.00	.00	2.54	1.57
NE	.05	.15	.34	.29	.05	.15	.24	.15	.05	.00	.00	.00	1.46	2.39
ENE	.00	.15	.15	.54	.15	.15	.05	.00	.00	.00	.00	.00	1.17	1.44
E	.00	.00	.63	.59	.10	.10	.10	.00	.00	.00	.00	.00	1.51	1.45
ESE	.00	.05	.15	.63	1.22	.44	.20	.00	.00	.00	.00	.00	2.69	1.95
SE	.00	.00	.34	.93	.63	.98	1.27	.05	.00	.00	.00	.00	4.20	2.54
SSE	.00	.00	.10	.34	.44	2.20	.49	.00	.00	.00	.00	.00	3.56	2.45
S	.00	.00	.15	.34	.44	1.76	.24	.00	.00	.00	.00	.00	2.93	2.27
SSW	.00	.20	.54	1.17	1.07	1.22	.05	.00	.00	.00	.00	.00	4.25	1.75
SW	.00	.05	.39	.83	.20	.39	.10	.00	.00	.00	.00	.00	1.95	1.66
WSW	.00	.05	.39	.34	.29	.39	.10	.00	.00	.00	.00	.00	1.56	1.74
W	.05	.10	.10	.29	.68	1.56	.83	.00	.00	.00	.00	.00	3.61	2.39
WNW	.00	.00	.20	.49	1.07	5.27	2.05	.00	.00	.00	.00	.00	9.08	2.63
NW	.00	.00	.29	1.12	1.51	3.52	2.93	.24	.00	.00	.00	.00	9.77	2.72
NNW	.00	.20	.34	.34	.34	.68	.24	.00	.00	.00	.00	.00	2.15	1.93
TOTAL	.20	1.27	4.74	9.67	8.89	19.48	9.23	.44	.05	.00	.00	.00	53.96	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS F (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

REVISION 0

## WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	1	1	3	0	0	0	0	0	0	0	0	0	5	.80
NNE	0	0	3	1	0	0	0	0	0	0	0	0	4	.95
NE	0	0	3	2	0	0	0	0	0	0	0	0	5	.98
ENE	0	1	1	4	0	0	0	0	0	0	0	0	6	1.05
E	0	0	2	1	1	0	0	0	0	0	0	0	4	1.27
ESE	0	1	2	3	0	0	0	0	0	0	0	0	6	1.04
SE	0	0	3	2	3	1	0	0	0	0	0	0	9	1.50
SSE	0	0	2	7	8	8	0	0	0	0	0	0	25	1.81
S	0	1	0	3	4	10	1	0	0	0	0	0	19	2.04
SSH	2	4	2	8	2	2	0	0	0	0	0	0	20	1.22
SW	0	1	1	6	6	0	0	0	0	0	0	0	14	1.44
WSW	0	0	3	2	3	1	0	0	0	0	0	0	9	1.46
W	1	0	1	4	2	0	0	0	0	0	0	0	8	1.26
WNW	1	0	3	5	3	0	0	0	0	0	0	0	12	1.22
NW	0	2	3	3	3	3	2	0	0	0	0	0	16	1.77
NNW	0	1	4	2	0	0	0	0	0	0	0	0	7	.96
TOTAL	5	12	36	53	35	25	3	0	0	0	0	0	169	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS F (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

## WIND FREQUENCY DISTRIBUTION

## FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

## WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 16	>18.0	ROW TOTAL	MEAN SPEED
N	.05	.05	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.80
NNE	.00	.00	.15	.05	.00	.00	.00	.00	.00	.00	.00	.00	.20	.95
NE	.00	.00	.15	.10	.00	.00	.00	.00	.00	.00	.00	.00	.24	.98
ENE	.00	.05	.05	.20	.00	.00	.00	.00	.00	.00	.00	.00	.29	1.05
E	.00	.00	.10	.05	.05	.00	.00	.00	.00	.00	.00	.00	.20	1.27
ESE	.00	.05	.10	.15	.00	.00	.00	.00	.00	.00	.00	.00	.29	1.04
SE	.00	.00	.15	.10	.15	.05	.00	.00	.00	.00	.00	.00	.44	1.50
SSE	.00	.00	.10	.34	.39	.39	.00	.00	.00	.00	.00	.00	1.22	1.81
S	.00	.05	.00	.15	.20	.49	.05	.00	.00	.00	.00	.00	.93	2.04
SSW	.10	.20	.10	.39	.10	.10	.00	.00	.00	.00	.00	.00	.96	1.22
SW	.00	.05	.05	.29	.29	.00	.00	.00	.00	.00	.00	.00	.68	1.44
WSW	.00	.00	.15	.10	.15	.05	.00	.00	.00	.00	.00	.00	.44	1.46
W	.05	.00	.05	.20	.10	.00	.00	.00	.00	.00	.00	.00	.39	1.26
WNW	.05	.00	.15	.24	.15	.00	.00	.00	.00	.00	.00	.00	.59	1.22
NW	.00	.10	.15	.15	.15	.15	.10	.00	.00	.00	.00	.00	.78	1.77
NNW	.00	.05	.20	.10	.00	.00	.00	.00	.00	.00	.00	.00	.34	.96
TOTAL	.24	.59	1.76	2.59	1.71	1.22	.15	.00	.00	.00	.00	.00	8.25	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													



BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS 6 (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN NUMBER OF OCCURRENCES

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.750- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	1	.96
NE	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	1	.80
SSE	0	0	0	0	0	0	0	0	0	0	0	1	.96
S	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	1	1	0	0	0	0	0	0	0	2	1.56
SW	0	1	2	1	0	0	0	0	0	0	0	4	1.36
WSW	0	0	1	2	0	0	0	0	0	0	0	5	1.20
W	0	1	0	0	0	0	0	0	0	0	0	2	.74
WNW	0	0	0	0	0	0	0	0	0	0	0	2	.69
NW	1	1	0	0	0	0	0	0	0	0	0	3	.63
NNW	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	1	7	5	4	4	0	0	0	0	0	0	21	

NUMBER OF CALMS 0  
 NUMBER OF INVALID HOURS 136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)  
 NUMBER OF VALID HOURS 2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS G (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

1/01/84 TO 3/31/84

WIND SPEED (M/S)

WIND DIRECTION	.20- .50	.51- .75	.76- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	FCM TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.98
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.80
SSE	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.98
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.10	1.56
SW	.00	.05	.00	.10	.05	.00	.00	.00	.00	.00	.00	.00	.20	1.36
WSW	.00	.10	.00	.05	.10	.00	.00	.00	.00	.00	.00	.00	.24	1.20
W	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.74
WNW	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.69
NW	.05	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.63
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.05	.34	.24	.20	.20	.00	.00	.00	.00	.00	.00	.00	1.03	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	136 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2048 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

CALVERT CLIFFS NUCLEAR POWER PLANT

METEOROLOGICAL DATA

APRIL 1, 1984 TO JUNE 30, 1984

WIND FREQUENCY DISTRIBUTION

BY STABILITY CLASS

PERIODS OF RELEASE ONLY

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS A (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 5/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS A (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1	1.10-1.50	1.60-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	POW TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1	1.10-1.50	1.60-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	ROM TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00

TOTAL 0 0 0 0 0 0 0 0 0 0 0 0 0 0

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	RCM TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSH	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SH	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSH	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													



BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS C (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1.10	1.10-1.50	1.60-2.10	2.10-3.10	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	1	0	0	0	0	0	1	3.62
TOTAL	0	0	0	0	0	0	1	0	0	0	0	0	0	1
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS C (30-600 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	RCM TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	3.62
TOTAL	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS D (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	1	4	4	4	3	0	0	0	0	0	0	16	1.52
NNE	0	2	1	2	6	6	2	0	0	0	0	0	19	1.95
NE	0	6	7	4	1	5	2	0	0	0	0	0	25	1.51
ENE	0	7	3	2	3	3	0	0	0	0	0	0	18	1.28
E	0	5	6	7	6	5	0	0	0	0	0	0	29	1.40
ESE	0	0	4	21	12	15	6	0	0	0	0	0	58	1.91
SE	0	0	2	4	3	4	0	0	0	0	0	0	13	1.70
SSE	1	0	0	3	2	0	0	0	0	0	0	0	6	1.42
S	0	1	3	6	4	12	3	0	0	0	0	0	29	2.04
SSW	0	0	2	23	12	9	0	0	0	0	0	0	46	1.69
SW	0	1	3	15	3	1	0	0	0	0	0	0	23	1.39
WSW	0	1	8	8	4	1	1	0	0	0	0	0	23	1.44
W	0	0	2	7	1	16	6	0	0	0	0	0	32	2.40
WNW	0	0	0	7	2	3	10	0	0	0	0	0	22	2.77
NW	0	0	2	13	27	10	2	0	0	0	0	0	54	1.86
NNW	0	0	2	5	21	15	7	0	0	0	0	0	50	2.26
TOTAL	1	24	49	131	111	108	39	0	0	0	0	0	463	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS D (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/64 TO 6/30/64

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1	1.10-1.50	1.50-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	FORM TOTAL	MEAN SPEED
N	.00	.05	.19	.19	.19	.14	.00	.00	.00	.00	.00	.00	.76	1.52
NNE	.00	.09	.05	.09	.28	.28	.09	.00	.00	.00	.00	.00	.90	1.95
NE	.00	.28	.33	.19	.05	.24	.09	.00	.00	.00	.00	.00	1.18	1.51
ENE	.00	.33	.14	.09	.14	.14	.00	.00	.00	.00	.00	.00	.85	1.28
E	.00	.24	.28	.33	.28	.24	.00	.00	.00	.00	.00	.00	1.37	1.40
ESE	.00	.00	.19	.99	.57	.71	.28	.00	.00	.00	.00	.00	2.74	1.91
SE	.00	.00	.09	.19	.14	.19	.00	.00	.00	.00	.00	.00	.61	1.70
SSE	.05	.00	.00	.14	.09	.00	.00	.00	.00	.00	.00	.00	.28	1.42
S	.00	.05	.14	.28	.19	.57	.14	.00	.00	.00	.00	.00	1.37	2.04
SSW	.00	.00	.09	1.09	.57	.43	.00	.00	.00	.00	.00	.00	2.17	1.69
SW	.00	.05	.14	.71	.14	.05	.00	.00	.00	.00	.00	.00	1.09	1.39
WSW	.00	.05	.38	.38	.19	.05	.05	.00	.00	.00	.00	.00	1.09	1.44
W	.00	.00	.09	.33	.05	.76	.28	.00	.00	.00	.00	.00	1.51	2.40
WNW	.00	.00	.00	.33	.09	.14	.47	.00	.00	.00	.00	.00	1.04	2.77
NW	.00	.00	.09	.61	1.28	.47	.09	.00	.00	.00	.00	.00	2.55	1.86
NNW	.00	.00	.09	.24	.99	.71	.33	.00	.00	.00	.00	.00	2.36	2.25

TOTAL .05 1.13 2.32 6.19 5.25 5.10 1.84 .00 .00 .00 .00 .00 .00 21.88

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS E (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	2	4	11	2	2	0	0	0	0	0	0	0	21	.94
NNE	3	5	8	11	4	0	0	0	0	0	0	0	31	1.07
NE	1	5	3	3	1	0	0	0	0	0	0	0	13	.91
ENE	0	2	5	4	1	0	0	0	0	0	0	0	12	1.11
E	1	3	1	6	3	4	0	0	0	0	0	0	18	1.45
ESE	0	6	9	12	7	6	0	0	0	0	0	0	40	1.38
SE	0	2	4	12	5	7	1	0	0	0	0	0	31	1.65
SSE	0	3	3	4	1	1	0	0	0	0	0	0	12	1.16
S	0	3	2	35	39	15	1	0	0	0	0	0	94	1.70
SSW	1	3	8	47	33	25	2	0	0	0	0	0	119	1.67
SW	0	5	5	30	28	7	0	0	0	0	0	0	75	1.51
WSW	1	4	14	8	4	4	0	0	0	0	0	0	35	1.26
W	0	6	11	12	8	3	0	0	0	0	0	0	40	1.29
WNW	1	2	8	20	4	15	3	0	0	0	0	0	53	1.75
NW	1	2	3	14	11	8	1	0	0	0	0	0	40	1.68
NNW	1	3	8	8	2	0	1	0	0	0	0	0	23	1.30
TOTAL	12	58	103	226	153	96	9	0	0	0	0	0	657	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS E (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	2.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 19	>19.0	ROW TOTAL	MEAN SPEED
N	.09	.19	.52	.09	.09	.00	.00	.00	.00	.00	.00	.00	.99	.94
NNE	.14	.24	.38	.52	.19	.00	.00	.00	.00	.00	.00	.00	1.47	1.07
NE	.05	.24	.14	.14	.05	.00	.00	.00	.00	.00	.00	.00	.61	.91
ENE	.00	.09	.24	.19	.05	.00	.00	.00	.00	.00	.00	.00	.57	1.11
E	.05	.14	.05	.28	.14	.19	.00	.00	.00	.00	.00	.00	.85	1.45
ESE	.00	.28	.43	.57	.33	.28	.00	.00	.00	.00	.00	.00	1.89	1.38
SE	.00	.09	.19	.57	.24	.33	.05	.00	.00	.00	.00	.00	1.47	1.65
SSE	.00	.14	.14	.19	.05	.05	.00	.00	.00	.00	.00	.00	.57	1.15
S	.00	.14	.09	1.56	1.84	.76	.05	.00	.00	.00	.00	.00	4.44	1.70
SSW	.05	.14	.38	2.22	1.56	1.18	.09	.00	.00	.00	.00	.00	5.62	1.67
SW	.00	.24	.24	1.42	1.32	.33	.00	.00	.00	.00	.00	.00	3.54	1.51
WSW	.05	.19	.66	.38	.19	.19	.00	.00	.00	.00	.00	.00	1.65	1.26
W	.00	.28	.52	.57	.38	.14	.00	.00	.00	.00	.00	.00	1.89	1.28
WNW	.05	.09	.38	.95	.19	.71	.14	.00	.00	.00	.00	.00	2.50	1.75
NW	.05	.09	.14	.66	.52	.38	.05	.00	.00	.00	.00	.00	1.89	1.68
NNW	.05	.14	.38	.38	.09	.00	.05	.00	.00	.00	.00	.00	1.09	1.30
TOTAL	.57	2.74	4.87	10.68	7.23	4.54	.43	.00	.00	.00	.00	.00	31.05	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS F (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	2	0	0	0	0	0	0	0	0	0	0	2	.67
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	1	0	0	0	0	0	0	0	0	0	1	1.03
E	0	0	0	0	1	1	0	0	0	0	0	0	2	1.88
ESE	0	0	0	0	0	1	0	0	0	0	0	0	1	2.41
SE	0	0	0	1	0	3	0	0	0	0	0	0	4	2.13
SSE	0	0	2	2	0	1	0	0	0	0	0	0	5	1.31
S	0	0	0	3	1	8	0	0	0	0	0	0	12	1.99
SSW	0	3	1	5	3	1	0	0	0	0	0	0	13	1.23
SW	0	3	0	2	5	0	0	0	0	0	0	0	10	1.30
WSW	0	2	5	3	2	0	0	0	0	0	0	0	12	1.13
W	0	2	4	1	1	0	0	0	0	0	0	0	8	.98
WNW	0	2	2	1	1	0	0	0	0	0	0	0	10	1.61
NW	0	1	2	3	1	2	0	0	0	0	0	0	9	1.42
NNW	0	0	1	2	0	0	0	0	0	0	0	0	3	1.18
TOTAL	0	15	18	23	15	21	0	0	0	0	0	0	92	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 58 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF INVALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS F (30-200 FOOT)  
 MINS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.57
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.03
E	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.09	1.88
ESE	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	2.41
SE	.00	.00	.00	.05	.00	.14	.00	.00	.00	.00	.00	.00	.19	2.13
SEE	.00	.00	.09	.09	.00	.05	.00	.00	.00	.00	.00	.00	.24	1.31
S	.00	.00	.00	.14	.05	.38	.00	.00	.00	.00	.00	.00	.57	1.99
SSW	.00	.14	.05	.24	.14	.05	.00	.00	.00	.00	.00	.00	.61	1.23
SW	.00	.14	.00	.09	.24	.00	.00	.00	.00	.00	.00	.00	.47	1.30
WSW	.00	.09	.24	.14	.09	.00	.00	.00	.00	.00	.00	.00	.57	1.13
W	.00	.09	.19	.05	.05	.00	.00	.00	.00	.00	.00	.00	.38	.98
WNW	.00	.09	.09	.05	.05	.19	.00	.00	.00	.00	.00	.00	.47	1.61
NW	.00	.05	.09	.14	.05	.09	.00	.00	.00	.00	.00	.00	.43	1.42
NNW	.00	.00	.05	.09	.00	.00	.00	.00	.00	.00	.00	.00	.14	1.18
TOTAL	.00	.71	.85	1.09	.71	.99	.00	.00	.00	.00	.00	.00	4.35	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)



REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 T; 5/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.750- 1	1.16- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROH TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	1	0	0	0	0	0	0	0	0	0	0	0	.72
SW	0	0	0	1	0	0	0	0	0	0	0	0	1	1.16
WSW	1	1	3	0	0	0	0	0	0	0	0	0	5	.75
W	0	1	3	0	0	0	0	0	0	0	0	0	4	.80
WNW	0	2	1	0	0	0	0	0	0	0	0	0	3	.73
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	1	5	7	1	0	0	0	0	0	0	0	0	14	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	69 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 PERIODS OF RELEASE ONLY  
 STABILITY CLASS G (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROU TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.72
SW	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.16
WSW	.05	.05	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.75
W	.00	.05	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.80
WNW	.00	.03	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.73
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.05	.24	.33	.05	.00	.00	.00	.00	.00	.00	.00	.00	.66	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

WIND FREQUENCY DISTRIBUTION

ALL STABILITY CLASSES

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS ALL (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.750- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	2	9	19	18	21	16	8	0	0	0	0	0	53	1.67
NNE	3	9	21	36	21	14	2	0	0	0	0	0	106	1.45
NE	1	12	12	18	7	11	2	0	0	0	0	0	63	1.44
ENE	0	10	22	14	15	7	0	0	0	0	0	0	68	1.32
E	1	8	15	25	20	19	0	0	0	0	0	0	88	1.53
ESE	0	8	22	48	38	52	9	0	0	0	0	0	176	1.77
SE	0	2	9	22	20	37	9	0	0	0	0	0	99	2.02
SSE	1	4	5	15	12	19	8	0	0	0	0	0	64	2.01
S	0	5	6	51	57	63	5	0	0	0	0	0	187	1.87
SSW	1	8	6	95	88	64	5	0	0	0	0	0	277	1.73
SW	0	11	17	60	65	20	0	0	0	0	0	0	173	1.53
WSW	3	9	32	31	25	13	1	0	0	0	0	0	114	1.39
W	0	12	34	36	27	40	7	0	0	0	0	0	156	1.65
WNW	3	9	16	37	18	46	18	0	0	0	0	0	147	1.98
NW	3	5	12	48	60	37	12	0	0	0	0	0	177	1.82
NNW	2	6	16	32	34	27	11	0	0	0	0	0	128	1.84
TOTAL	20	127	274	586	528	485	96	0	0	0	0	0	2116	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS ALL (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 5/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1	1.10-1.50	1.50-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	ROW TOTAL	MEAN SPEED
N	.09	.43	.90	.85	.99	.76	.38	.00	.00	.00	.00	.00	4.40	1.67
NNE	.14	.43	.99	1.70	.99	.66	.09	.00	.00	.00	.00	.00	5.01	1.45
NE	.05	.57	.57	.85	.33	.52	.09	.00	.00	.00	.00	.00	2.98	1.44
ENE	.00	.47	1.04	.66	.71	.33	.00	.00	.00	.00	.00	.00	3.21	1.32
E	.05	.38	.71	1.18	.95	.90	.00	.00	.00	.00	.00	.00	4.16	1.53
ESE	.00	.38	1.04	2.27	1.80	2.46	.38	.00	.00	.00	.00	.00	8.32	1.77
SE	.00	.09	.43	1.04	.95	1.75	.43	.00	.00	.00	.00	.00	4.68	2.02
SSE	.05	.19	.24	.71	.57	.90	.38	.00	.00	.00	.00	.00	3.02	2.01
S	.00	.24	.28	2.41	2.69	2.98	.24	.00	.00	.00	.00	.00	8.84	1.87
SSW	.05	.38	.76	4.49	4.16	3.02	.24	.00	.00	.00	.00	.00	13.09	1.73
SW	.00	.52	.80	2.84	3.07	.95	.00	.00	.00	.00	.00	.00	8.18	1.53
WSW	.14	.43	1.51	1.47	1.18	.61	.05	.00	.00	.00	.00	.00	5.39	1.39
W	.00	.57	1.61	1.70	1.28	1.39	.33	.00	.00	.00	.00	.00	7.37	1.65
WNW	.14	.43	.76	1.75	.85	2.17	.85	.00	.00	.00	.00	.00	6.95	1.98
NW	.14	.24	.57	2.27	2.84	1.75	.57	.00	.00	.00	.00	.00	8.36	1.82
NNW	.09	.28	.76	1.51	1.61	1.28	.52	.00	.00	.00	.00	.00	6.05	1.84
TOTAL	.95	6.00	12.95	27.69	24.95	22.92	4.54	.00	.00	.00	.00	.00	100.00	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS A (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS A (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/34 TO 6/30/34

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SF	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1.100	1.10-1.50	1.60-2.10	2.10-3.10	3.10-5.10	5.10-7.10	7.10-10.1	10.1-13.1	13.1-18.0	>18.0	ROM TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													



BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS C (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
N4E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SH	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WSH	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
W	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	1	0	0	0	0	0	1	3.62
TOTAL	0	0	0	0	0	0	1	0	0	0	0	0	1	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS C (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1	1.10-1.50	1.60-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	FORM TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WSW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
W	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
WNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	3.52
TOTAL	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	.05
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS D (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.200- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	1	5	6	11	14	7	0	0	0	0	0	44	2.14
NNE	0	2	1	5	9	13	2	0	0	0	0	0	32	2.01
NE	0	7	7	6	5	9	2	0	0	0	0	0	36	1.61
ENE	0	7	8	4	9	6	0	0	0	0	0	0	34	1.42
E	0	5	10	12	14	13	0	0	0	0	0	0	54	1.59
ESE	0	0	4	29	20	36	6	0	0	0	0	0	95	1.98
SE	0	0	3	4	3	13	1	0	0	0	0	0	24	2.02
SSE	1	1	0	3	2	2	5	0	0	0	0	0	14	2.54
S	0	2	4	7	4	15	3	0	0	0	0	0	35	1.97
SSW	0	0	3	26	15	13	0	0	0	0	0	0	57	1.74
SW	0	1	3	15	6	4	0	0	0	0	0	0	29	1.52
WSW	0	1	8	10	8	8	1	0	0	0	0	0	36	1.64
W	0	0	2	10	6	32	7	0	0	0	0	0	57	2.30
WNW	1	0	0	8	3	16	15	0	0	0	0	0	43	2.71
NW	0	0	3	16	40	19	10	0	0	0	0	0	88	2.05
NNW	0	1	3	7	28	24	8	0	0	0	0	0	71	2.18
TOTAL	2	28	64	168	183	237	67	0	0	0	0	0	749	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS D (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1	1.10-1.50	1.60-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.05	.24	.28	.52	.66	.33	.00	.00	.00	.00	.00	2.08	2.14
NNE	.00	.09	.05	.24	.43	.61	.09	.00	.00	.00	.00	.00	1.51	2.01
NE	.00	.33	.33	.28	.24	.43	.09	.00	.00	.00	.00	.00	1.70	1.61
ENE	.00	.33	.38	.19	.43	.28	.00	.00	.00	.00	.00	.00	1.61	1.42
E	.00	.24	.47	.57	.66	.61	.00	.00	.00	.00	.00	.00	2.55	1.59
ESE	.00	.00	.19	1.37	.95	1.70	.28	.00	.00	.00	.00	.00	4.49	1.98
SE	.00	.00	.14	.19	.14	.61	.05	.00	.00	.00	.00	.00	1.13	2.02
SSE	.05	.05	.00	.14	.09	.09	.24	.00	.00	.00	.00	.00	.66	2.54
S	.00	.09	.19	.33	.19	.71	.14	.00	.00	.00	.00	.00	1.65	1.97
SSW	.00	.00	.14	1.23	.71	.61	.00	.00	.00	.00	.00	.00	2.69	1.74
SW	.00	.05	.14	.71	.28	.19	.00	.00	.00	.00	.00	.00	1.37	1.52
WSW	.00	.05	.50	.47	.38	.38	.05	.00	.00	.00	.00	.00	1.70	1.64
W	.00	.00	.09	.47	.28	1.51	.33	.00	.00	.00	.00	.00	2.59	2.30
WNW	.05	.00	.00	.38	.14	.76	.71	.00	.00	.00	.00	.00	2.03	2.71
NW	.00	.00	.14	.76	1.89	.90	.47	.30	.00	.00	.00	.00	4.16	2.05
NNW	.00	.05	.14	.33	1.32	1.13	.38	.00	.00	.00	.00	.00	3.36	2.18
TOTAL	.09	1.32	3.02	7.94	8.65	11.20	3.17	.00	.00	.00	.00	.00	35.40	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS E (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION  
 FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- :500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	2	6	14	12	10	2	1	0	0	0	0	0	47	1.28
NNE	3	7	20	31	12	1	0	0	0	0	0	0	74	1.21
NE	1	5	5	12	2	2	0	0	0	0	0	0	27	1.20
ENE	0	3	13	10	6	1	0	0	0	0	0	0	33	1.23
E	1	3	5	13	5	5	0	0	0	0	0	0	32	1.42
ESE	0	7	18	19	18	15	2	0	0	0	0	0	79	1.53
SE	0	2	6	16	17	16	8	0	0	0	0	0	65	1.98
SSE	0	3	3	10	10	15	3	0	0	0	0	0	44	1.91
S	0	3	2	41	50	32	2	0	0	0	0	0	130	1.80
SSW	1	4	12	63	70	50	5	0	0	0	0	0	205	1.77
SW	0	7	12	40	50	14	0	0	0	0	0	0	123	1.55
WSW	2	4	16	17	13	5	0	0	0	0	0	0	57	1.34
W	0	7	19	19	20	7	0	0	0	0	0	0	72	1.39
WNW	2	3	13	26	13	25	3	0	0	0	0	0	85	1.74
NW	2	4	7	24	19	16	2	0	0	0	0	0	74	1.64
NNW	1	4	12	22	6	3	2	0	0	0	0	0	50	1.42
TOTAL	15	72	177	375	321	209	28	0	0	0	0	0	1197	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													

REVISION 0

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS E (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.09	.28	.66	.57	.47	.09	.05	.00	.00	.00	.00	.00	2.22	1.28
NNE	.14	.33	.95	1.47	.57	.05	.00	.00	.00	.00	.00	.00	3.50	1.21
NE	.05	.24	.24	.57	.09	.09	.00	.00	.00	.00	.00	.00	1.28	1.20
ENE	.00	.14	.61	.47	.28	.05	.00	.00	.00	.00	.00	.00	1.56	1.23
E	.05	.14	.24	.61	.24	.24	.00	.00	.00	.00	.00	.00	1.51	1.42
ESE	.00	.33	.85	.90	.85	.71	.09	.00	.00	.00	.00	.00	3.73	1.53
SE	.00	.09	.28	.76	.80	.76	.38	.00	.00	.00	.00	.00	3.07	1.98
SSE	.00	.14	.14	.47	.47	.71	.14	.00	.00	.00	.00	.00	2.08	1.91
S	.00	.14	.09	1.94	2.36	1.51	.09	.00	.00	.00	.00	.00	6.14	1.80
SSW	.05	.19	.57	2.98	3.31	2.36	.24	.00	.00	.00	.00	.00	9.69	1.77
SW	.00	.33	.57	1.89	2.36	.66	.00	.00	.00	.00	.00	.00	5.81	1.55
WSW	.09	.19	.76	.80	.61	.24	.00	.00	.00	.00	.00	.00	2.69	1.34
W	.09	.33	.90	.90	.95	.33	.00	.00	.00	.00	.00	.00	3.40	1.39
WNW	.09	.14	.61	1.23	.61	1.18	.14	.00	.00	.00	.00	.00	4.02	1.74
NW	.09	.19	.33	1.13	.90	.76	.09	.00	.00	.00	.00	.00	3.50	1.64
NNW	.05	.19	.57	1.04	.28	.14	.09	.00	.00	.00	.00	.00	2.36	1.42
TOTAL	.71	3.40	8.36	17.72	15.17	9.88	1.32	.00	.00	.00	.00	.00	56.57	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS F (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 5/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.760-1.100	1.10-1.50	1.50-2.00	2.00-3.00	3.00-5.00	5.00-7.00	7.00-10.00	10.00-13.00	13.00-18.00	>18.00	RCM TOTAL	MEAN SPEED
N	0	2	0	0	0	0	0	0	0	0	0	0	2	.67
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	1	0	0	0	0	0	0	0	0	0	1	1.03
E	0	0	0	0	1	1	0	0	0	0	0	0	2	1.88
ESE	0	1	0	0	0	1	0	0	0	0	0	0	2	1.52
SE	0	0	0	2	0	8	0	0	0	0	0	0	10	2.28
SSE	0	0	2	2	0	2	0	0	0	0	0	0	6	1.46
S	0	0	0	3	3	16	0	0	0	0	0	0	22	2.14
SSW	0	3	1	6	3	1	0	0	0	0	0	0	14	1.23
SW	0	3	1	4	9	2	0	0	0	0	0	0	19	1.46
WSW	0	2	5	4	4	0	0	0	0	0	0	0	15	1.25
W	0	4	10	7	1	1	0	0	0	0	0	0	23	1.03
WNW	0	4	2	3	2	5	0	0	0	0	0	0	16	1.49
NW	1	1	2	8	1	2	0	0	0	0	0	0	15	1.31
NNW	1	1	1	3	0	0	0	0	0	0	0	0	6	.97

TOTAL 2 21 25 42 24 39 0 0 0 0 0 0 0 153

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)



BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS F (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL.

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/01/84 TO 5/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220-.500	.510-.750	.750-1	1.10-1.50	1.50-2	2.10-3	3.10-5	5.10-7	7.10-10	10.1-13	13.1-18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.67
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.03
E	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.09	1.88
ESE	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.09	1.52
SE	.00	.00	.00	.09	.00	.38	.00	.00	.00	.00	.00	.00	.47	2.28
SSE	.00	.00	.09	.09	.00	.09	.00	.00	.00	.00	.00	.00	.28	1.46
S	.00	.00	.00	.14	.14	.76	.00	.00	.00	.00	.00	.00	1.04	2.14
SSW	.00	.14	.05	.28	.14	.05	.00	.00	.00	.00	.00	.00	.66	1.23
SW	.00	.14	.05	.19	.43	.09	.00	.00	.00	.00	.00	.00	.90	1.46
WSW	.00	.09	.24	.19	.19	.00	.00	.00	.00	.00	.00	.00	.71	1.25
W	.00	.19	.47	.33	.05	.05	.00	.00	.00	.00	.00	.00	1.09	1.03
WNW	.00	.19	.09	.14	.09	.24	.00	.00	.00	.00	.00	.00	.76	1.49
NW	.05	.05	.09	.38	.05	.09	.00	.00	.00	.00	.00	.00	.71	1.31
NNW	.05	.05	.05	.14	.00	.00	.00	.00	.00	.00	.00	.00	.28	.97
TOTAL	.09	.99	1.18	1.98	1.13	1.84	.00	.00	.00	.00	.00	.00	7.23	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS G (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN NUMBER OF OCCURRENCES

4/01/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.50- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
E	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
S	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
SSH	0	1	0	0	0	0	0	0	0	0	0	0	1	.72
SH	0	0	1	1	0	0	0	0	0	0	0	0	2	1.01
WSH	1	2	3	0	0	0	0	0	0	0	0	0	6	.75
W	0	1	3	0	0	0	0	0	0	0	0	0	4	.80
WNW	0	2	1	0	0	0	0	0	0	0	0	0	3	.73
NW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0	.00
TOTAL	1	6	8	1	0	0	0	0	0	0	0	0	16	

NUMBER OF CALMS 0

NUMBER OF INVALID HOURS 68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)

NUMBER OF VALID HOURS 2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)

BALTIMORE GAS AND ELECTRIC COMPANY  
 CALVERT CLIFFS NUCLEAR SITE  
 WIND REDUCED FROM 125 FOOT LEVEL TO 33 FOOT LEVEL  
 STABILITY CLASS B (30-200 FOOT)  
 WINDS AT 33 FOOT LEVEL

WIND FREQUENCY DISTRIBUTION

FREQUENCY IN PERCENT OF TOTAL

4/31/84 TO 6/30/84

WIND SPEED (M/S)

WIND DIRECTION	.220- .500	.510- .750	.760- 1	1.10- 1.50	1.60- 2	2.10- 3	3.10- 5	5.10- 7	7.10- 10	10.1- 13	13.1- 18	>18.0	ROW TOTAL	MEAN SPEED
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ENE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
E	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ESE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SSW	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.72
SW	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.09	1.01
WSW	.05	.09	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.75
W	.00	.05	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.80
WNW	.00	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.73
NW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
NNW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.05	.28	.38	.05	.00	.00	.00	.00	.00	.00	.00	.00	.76	
NUMBER OF CALMS	0													
NUMBER OF INVALID HOURS	68 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS LESS NUMBER OF VALID HOURS)													
NUMBER OF VALID HOURS	2116 (TOTAL NUMBER OF POSSIBLE OBSERVATIONS WITH VALID SPEED, DIRECTION, AND STABILITY)													



CHARLES CENTER · P. O. BOX 1475 · BALTIMORE, MARYLAND 21203

ARTHUR E. LUNDVALL, JR.  
VICE PRESIDENT  
SUPPLY

August 31, 1984

Dr. Thomas E. Murley  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia, PA 19406

SUBJECT: Calvert Cliffs Nuclear Power Plant  
Docket Nos. 50-317 and 50-318  
Semi-Annual Effluent Release Report

Dear Dr. Murley:

The purpose of this letter is to forward to you the attached Semi-Annual Effluent Release Report and meteorological summary for the first half of 1984 in compliance with Paragraph 5.6.1.b of the Unit 1 and Unit 2 Environmental Technical Specifications. The report does not include the complete analytical results and an updated report shall be submitted as soon as these results are completed.

Very truly yours,

Attachment

cc: Director, Office of Management Information  
and Program Control

1E 25