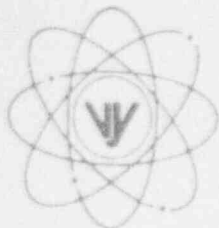


VERMONT YANKEE NUCLEAR POWER CORPORATION



Ferry Road, Brattleboro, VT 05301-7002

REPLY TO
ENGINEERING OFFICE
580 MAIN STREET
BOLTON, MA 01740
(508) 779-6711

February 26, 1993
BVY 93 - 21

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

References: a. License No. DPR-28 (Docket No. 50-271)

Subject: Vermont Yankee Effluent and Waste Disposal Semiannual Report
for the Third and Fourth Quarters, 1992

Dear Sir:

Enclosed herewith please find one copy of the Vermont Yankee Nuclear Power Corporation subject report. This report covers the period beginning July 1, 1992 and ending December 31, 1992 and is submitted in accordance with our Technical Specification 6.7.C.1 and 10CFR50.36a(a)(2). The annual dose summary to man for 1992 will be submitted in a supplemental report in accordance with Technical Specification 6.7.C.1.b.

We trust that the enclosed information is satisfactory; however, should you have any questions, please contact this office.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

Leonard A. Tremblay, Jr.
Leonard A. Tremblay, Jr.
Senior Licensing Engineer

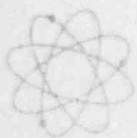
cc: USNRC Region I Administrator
USNRC Resident Inspector - VYNPS
USNRC Project Manager - VYNPS

030054

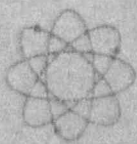
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JEH





VERMONT YANKEE NUCLEAR POWER CORPORATION
VERMONT YANKEE NUCLEAR POWER STATION
VERNON, VERMONT



VERMONT YANKEE NUCLEAR POWER CORPORATION

VERMONT YANKEE NUCLEAR POWER STATION

VERNON, VERMONT

EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT
FOR
THIRD AND FOURTH QUARTERS, 1992

Vermont Yankee Nuclear Power Station

TABLE 1A

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters, 1992

Gaseous Effluents - Summation of All Releases

	Unit	Quarter 3	Quarter 4	Est. Total Error, %
A. Fission and Activation Gases				
1. Total release	Ci	1.46E+03	1.08E+03	±1.00E+02
2. Average release rate for period	µCi/sec	1.86E+02	1.37E+02	
3. Percent of Tech. Spec. limit (1)	%			
B. Iodines				
1. Total Iodine-131	Ci	4.96E-03	2.19E-03	±5.00E+01
2. Average release rate for period	µCi/sec	6.31E-04	2.78E-04	
3. Percent of Tech. Spec. limit (1)	%			
C. Particulates				
1. Particulates with T-1/2 > 8 days	Ci	3.34E-03	2.88E-03	±5.00E+01
2. Average release rate for period	µCi/sec	4.25E-04	3.66E-04	
3. Percent of Tech. Spec. limit (1)	%			
4. Gross alpha radioactivity	Ci	2.66E-06	2.76E-06	
D. Tritium				
1. Total release	Ci	5.11E+00	5.71E+00	±5.00E+01
2. Average release rate for period	µCi/sec	6.50E-01	7.26E-01	
3. Percent of Tech. Spec. limit (1)	%			

(1) Percent of Technical Specification limit will be provided in the Supplemental Effluent and Waste Disposal Report to be submitted per Technical Specification 6.7.C.1.

TABLE 1B

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters, 1992

Gaseous Effluents - Elevated Releases

Nuclides Released	Unit	Continuous Mode		Batch Mode (1)	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4
1. Fission Gases					
Krypton-85	Ci	ND	ND		
Krypton-85m	Ci	5.90E+00	3.86E+00		
Krypton-87	Ci	4.39E+01	2.87E+01		
Krypton-88	Ci	2.23E+01	1.44E+01		
Xenon-133	Ci	2.48E+00	1.66E+00		
Xenon-135	Ci	3.54E+01	2.35E+01		
Xenon-135m	Ci	2.44E+02	1.62E+02		
Xenon-138	Ci	1.06E+03	7.03E+02		
Unidentified	Ci				
Total for period	Ci	1.41E+03	9.37E+02		
2. Iodines					
Iodine-131	Ci	4.61E-03	1.79E-03		
Iodine-133	Ci	2.13E-02	9.32E-03		
Iodine-135	Ci	ND	ND		
Total for period	Ci	2.59E-02	1.11E-02		
3. Particulates					
Strontium-89	Ci	3.05E-04	9.49E-04		
Strontium-90	Ci	2.84E-05	2.60E-05		
Cesium-134	Ci	ND	ND		
Cesium-137	Ci	1.22E-05	1.69E-05		
Barium-Lanthanum-140	Ci	2.22E-03	1.38E-03		
Manganese-54	Ci	ND	6.49E-06		
Chromium-51	Ci	ND	ND		
Cobalt-58	Ci	ND	ND		
Cobalt-60	Ci	1.29E-05	5.06E-05		
Cerium-141	Ci	ND	3.16E-06		
Zinc-65	Ci	ND	ND		
Total for period	Ci	2.58E-03	2.43E-03		

(1) There were no batch mode gaseous releases for this reporting period.

ND - Not detected at the plant stack.

TABLE 1C

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters 1992

Gaseous Effluents - Ground Level Releases⁽²⁾

Nuclides Released	Unit	Continuous Mode		Batch Mode ⁽¹⁾	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4
1. Fission Gases					
Krypton-85	Ci	ND	ND		
Krypton-85m	Ci	2.10E-01	5.77E-01		
Krypton-87	Ci	1.56E+00	4.29E+00		
Krypton-88	Ci	7.90E-01	2.16E+00		
Xenon-133	Ci	8.84E-02	2.51E-01		
Xenon-135	Ci	1.26E+00	3.52E+00		
Xenon-135m	Ci	8.68E+00	2.43E+01		
Xenon-138	Ci	3.75E+01	1.05E+02		
Unidentified	Ci				
Total for period	Ci	5.01E+01	1.40E+02		
2. Iodines ⁽²⁾					
Iodine-131	Ci	3.54E-04	4.01E-04		
Iodine-133	Ci	2.07E-03	2.47E-03		
Iodine-135	Ci	ND	ND		
Total for period	Ci	2.42E-03	2.87E-03		
3. Particulates ⁽²⁾					
Strontium-89	Ci	4.30E-04	1.22E-04		
Strontium-90	Ci	1.94E-06	6.48E-07		
Cesium-134	Ci	ND	ND		
Cesium-137	Ci	ND	ND		
Barium-Lanthanum-140	Ci	3.31E-04	3.22E-04		
Manganese-54	Ci	ND	ND		
Chromium-51	Ci	ND	ND		
Cobalt-58	Ci	ND	ND		
Cobalt-60	Ci	ND	ND		
Cerium-141	Ci	ND	1.38E-06		
Zinc-65	Ci	ND	ND		
Total for period	Ci	7.63E-04	4.46E-04		

(1) There were no batch mode gaseous releases for this reporting period.

(2) Effluent sampling of the turbine roof ventilators as a ground level release point was initiated at the beginning of the fourth quarter 1991.

ND - Not detected at the Turbine Building roof.

TABLE 1D

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters 1992

Gaseous Effluents - Nonroutine Releases

There were no nonroutine or accidental gaseous releases during this reporting period.

TABLE 2A

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters 1992

Liquid Effluents - Summation of All Releases

A. Fission and Activation Products	Unit	Quarter 3	Quarter 4	Est. Total Error, %
1. Total release (not including tritium, gases, alpha)	Ci	2.66E-05		±1.00E+02
2. Average diluted concentration during period	uCi/ml	3.80E-09		
3. Percent of applicable limit (1)	%			
B. Tritium				
1. Total release	Ci	4.02E-05		±1.00E+02
2. Average diluted concentration during period	uCi/ml	5.74E-09		
3. Percent of applicable limit (1)	%			
C. Dissolved and Entrained Gases				
1. Total release	Ci	8.14E-06		±1.00E+02
2. Average diluted concentration during period	uCi/ml	1.16E-09		
3. Percent of applicable limit (2)	%			
D. Gross Alpha Radioactivity				
1. Total release	Ci			±1.00E+02
E. Volume of waste released (prior to dilution)				
	liters	3.79E+03		±2.50E+01
F. Volume of dilution water used during period				
	liters	7.00E+06		±2.50E+01

(1) Concentration limits specified in 10CFR, Part 20, Appendix B, Table II, Column 2 (Technical Specification 3.8.A.1). The percent of applicable limit reported is based on the average diluted concentration during the period. At no time did any release exceed the concentration limit.

(2) Concentration limits for dissolved and entrained noble gases is 2E-04 microcuries/ml (Technical Specification 3.8.A.1). The percent of applicable limit reported is based on the average diluted concentration during the period. At no time did any release exceed the concentration limit.

TABLE 2B

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters 1992

Liquid Effluents - Nonroutine Releases

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 3	Quarter 4	Quarter 3	Quarter 4
Strontium-89	Ci			ND	
Strontium-90	Ci			ND	
Cesium-134	Ci			ND	
Cesium-137	Ci			ND	
Iodine-131	Ci			3.46E-06	
Cobalt-58	Ci			ND	
Cobalt-60	Ci			ND	
Iron-59	Ci			ND	
Zinc-65	Ci			ND	
Manganese-54	Ci			ND	
Chromium-51	Ci			ND	
Zirconium-Niobium-95	Ci			ND	
Molybdenum-99	Ci			ND	
Technetium-99m	Ci			1.26E-07	
Barium-Lanthanum-140	Ci			1.17E-06	
Cerium-141	Ci			2.39E-07	
Iodine-132	Ci			1.58E-06	
Iodine-133	Ci			6.63E-06	
Iodine-134	Ci			1.06E-06	
Iodine-135	Ci			7.27E-06	
Strontium-91	Ci			1.28E-07	
Strontium-92	Ci			3.90E-07	
Yttrium-91m	Ci			7.80E-07	
Ruthenium-106	Ci			1.58E-06	
Barium-139	Ci			2.23E-06	
Unidentified	Ci				
Total for period (above)	Ci			2.66E-05	
Xenon-133	Ci			4.96E-07	
Xenon-135	Ci			8.06E-07	
Xenon-135m	Ci			3.22E-06	
Xenon-131m	Ci			3.62E-06	
Total for period	Ci			8.14E-06	

ND - Not detected in the Turbine Building sump.

TABLE 3

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters, 1992

Solid Waste and Irradiated Fuel Shipments

A. Solid Waste Shipped Off-Site for Burial or Disposal (Not Irradiated Fuel):

1. Type of Waste	Unit	6-Month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³ Ci	3.39E+01 1.96E+02	±7.50E+01
b. Dry compressible waste, contaminated equipment, etc.	m ³ Ci	2.93E+02 4.44E+01	See Note 1 ±7.50E+01
c. Irradiated components, control rods, etc.	m ³ Ci	3.25E+00 2.00E+04	±7.50E+01

2. Estimate of Major Nuclide Composition (By Type of Waste):

a. Zinc-65	%	6.26E+01	c. Iron-55	%	5.07E+01
Cesium-137	%	9.81E+00	Cobalt-60	%	4.41E+01
Cobalt-60	%	9.48E+00	Nickel-63	%	3.53E+00
Iron-55	%	5.16E+00			
Cesium-134	%	3.41E+00			
b. Iron-55	%	6.01E+01			
Cobalt-60	%	1.70E+01			
Zinc-65	%	8.96E+00			
Manganese-54	%	5.43E+00			

3. Solid Waste Disposition:

Number of Shipments	Mode of Transportation	Destination
8	Truck	Barnwell, SC
1	Truck	Wampum, PA Note 2
3	Truck	Oak Ridge, TN Note 2

B. Irradiated Fuel Shipments (Disposition): None

C. Supplemental information

- 1) Class of solid waste containers shipped: 9 A (unstable), 15A, 5B, 2C
- 2) Types of containers used: 8 Strong-tight Containers, 21 Type A, 2 Type B
- 3) Solidification agent or absorbent: None

- Note 1: The DAW volume and activity includes all waste shipped off-site. All but 105 ft³ and 44.06 Ci were sent to processors. See the attached data for the burial information on this waste.
- Note 2: These were shipments to processors.

TABLE 3. ADDENDUM

Of the waste shipped to processors, the following data is given with regard to its ultimate disposal.

Volume disposed	1.82E+01	in ³
Activity disposed	1.82E-01	Ci
No. of shipments	4	destination Barnwell (Note 3)
	15	destination Beatty (Note 3)
Class of containers	74	Class A (Unstable)
Type of containers	74	Strong tight containers
Solidification Agent:	None	

Note 3: These are partial shipments along with other generators' waste.

TABLE 5A

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = .13

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4-7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	9.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.09
(2)	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.09	.00	.00	9.09
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.09	45.45	.00	54.55
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.00	.07
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	27.27	.00	27.27
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.04
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	8	0	11
(1)	.00	.00	.00	.00	.00	.00	9.09	.00	.00	.00	.00	.00	.00	.00	18.18	72.73	.00	100.00
(2)	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.02	.09	.00	.13

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 5B

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = .53

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	2.22	.00	.00	.00	.00	.00	.00	.00	.00	2.22
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01
4-7	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	3	0	6
(1)	.00	.00	.00	.00	2.22	.00	4.44	.00	.00	.00	.00	.00	.00	.00	.00	6.67	.00	13.33
(2)	.00	.00	.00	.00	.01	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.07
8-12	1	0	0	0	0	0	2	1	0	0	0	0	0	1	0	11	0	16
(1)	2.22	.00	.00	.00	.00	.00	4.44	2.22	.00	.00	.00	.00	.00	2.22	.00	24.44	.00	35.56
(2)	.01	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00	.00	.01	.00	.13	.00	.19
13-18	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	0	19
(1)	8.89	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.44	28.89	.00	42.22
(2)	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.15	.00	.22
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.67	.00	6.67
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.04
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	5	0	0	0	1	0	4	1	1	0	0	0	0	1	2	30	0	45
(1)	11.11	.00	.00	.00	2.22	.00	8.89	2.22	2.22	.00	.00	.00	.00	2.22	4.44	66.67	.00	100.00
(2)	.06	.00	.00	.00	.01	.00	.05	.01	.01	.00	.00	.00	.00	.01	.02	.35	.00	.53

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 5C

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS C

CLASS FREQUENCY (PERCENT) = 2.18

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.54	.00	.00	.00	.00	.00	.00	.00	.00	.00	.54
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
4-7	0	2	2	0	1	1	1	2	1	0	0	0	0	0	1	11	0	22
(1)	.00	1.08	1.08	.00	.54	.54	.54	1.08	.54	.00	.00	.00	.00	.00	.54	5.95	.00	11.89
(2)	.00	.02	.02	.00	.01	.01	.01	.02	.01	.00	.00	.00	.00	.00	.01	.13	.00	.26
8-12	21	0	0	0	0	2	5	12	9	0	0	0	1	4	4	17	0	75
(1)	11.35	.00	.00	.00	.00	1.08	2.70	6.49	4.86	.00	.00	.00	.54	2.16	2.16	9.19	.00	40.54
(2)	.25	.00	.00	.00	.00	.02	.06	.14	.11	.00	.00	.00	.01	.05	.05	.20	.00	.88
13-18	8	1	0	0	0	0	0	0	2	2	0	1	2	9	6	21	0	52
(1)	4.32	.54	.00	.00	.00	.00	.00	.00	1.08	1.08	.00	.54	1.08	4.86	3.24	11.35	.00	28.11
(2)	.09	.01	.00	.00	.00	.00	.00	.00	.02	.02	.00	.01	.02	.11	.07	.25	.00	.61
19-24	1	0	0	0	0	0	0	0	0	0	0	0	2	3	4	15	0	25
(1)	.54	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.08	1.62	2.16	8.11	.00	13.51
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.05	.18	.00	.29
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	8	0	10
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.54	.54	4.32	.00	5.41
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.09	.00	.12
ALL SPEEDS	30	3	2	0	1	3	6	15	12	2	0	1	5	17	16	72	0	185
(1)	16.22	1.62	1.08	.00	.54	1.62	3.24	8.11	6.49	1.08	.00	.54	2.70	9.19	8.65	38.92	.00	100.00
(2)	.35	.04	.02	.00	.01	.04	.07	.18	.14	.02	.00	.01	.06	.20	.19	.85	.00	2.18

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 5D

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 51.10

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	2	0	6
(1)	.00	.00	.00	.00	.00	.02	.00	.00	.02	.00	.02	.02	.00	.00	.00	.05	.00	.14
(2)	.00	.00	.00	.00	.00	.01	.00	.00	.01	.00	.01	.01	.00	.00	.00	.02	.00	.07
C-3	52	39	33	34	41	55	72	52	35	19	20	13	16	25	36	54	0	596
(1)	1.20	.90	.76	.78	.94	1.27	1.66	1.20	.81	.44	.46	.30	.37	.58	.83	1.24	.00	13.73
(2)	.61	.46	.39	.40	.48	.65	.85	.61	.41	.22	.24	.15	.19	.29	.42	.64	.00	7.02
4-7	126	52	24	28	54	83	130	116	114	31	19	17	10	32	44	203	0	1083
(1)	2.90	1.20	.55	.65	1.24	1.91	3.00	2.67	2.63	.71	.44	.39	.23	.74	1.01	4.68	.00	24.95
(2)	1.48	.61	.28	.33	.64	.98	1.53	1.37	1.34	.37	.22	.20	.12	.38	.52	2.39	.00	12.75
8-12	148	44	15	13	14	40	76	127	251	72	27	32	79	112	71	262	0	1383
(1)	3.41	1.01	.35	.30	.32	.92	1.75	2.93	5.78	1.66	.62	.74	1.82	2.58	1.64	6.04	.00	31.87
(2)	1.74	.52	.18	.15	.16	.47	.89	1.50	2.96	.85	.32	.38	.93	1.32	.84	3.08	.00	16.28
13-18	116	28	3	10	3	5	10	18	144	21	12	26	66	162	94	147	0	865
(1)	2.67	.65	.07	.23	.07	.12	.23	.41	3.32	.48	.28	.60	1.52	3.73	2.17	3.39	.00	19.93
(2)	1.37	.33	.04	.12	.04	.06	.12	.21	1.70	.25	.14	.31	.78	1.91	1.11	1.73	.00	10.18
19-24	31	7	0	1	0	0	1	2	23	6	0	7	14	72	47	88	0	299
(1)	.71	.16	.00	.02	.00	.00	.02	.05	.53	.14	.00	.16	.32	1.66	1.08	2.03	.00	6.89
(2)	.37	.08	.00	.01	.00	.00	.01	.02	.27	.07	.00	.08	.16	.85	.55	1.04	.00	3.52
GT 24	0	0	0	0	0	0	0	0	0	2	0	0	2	22	23	59	0	108
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.51	.53	1.36	.00	2.49
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02	.26	.27	.69	.00	1.27
ALL SPEEDS	473	170	75	86	112	184	289	315	568	151	79	96	187	425	315	815	0	4340
(1)	10.90	3.92	1.73	1.98	2.58	4.24	6.66	7.26	13.09	3.48	1.82	2.21	4.31	9.79	7.26	18.78	.00	100.00
(2)	5.57	2.00	.88	1.01	1.32	2.17	3.40	3.71	6.69	1.78	.93	1.13	2.20	5.00	3.71	9.60	.00	51.10

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 5E

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 34.72

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	2	0	0	2	2	2	2	3	0	1	2	0	1	0	3	0	20
(1)	.00	.07	.00	.00	.07	.07	.07	.07	.10	.00	.03	.07	.00	.03	.00	.10	.00	.68
(2)	.00	.02	.00	.00	.02	.02	.02	.02	.04	.00	.01	.02	.00	.01	.00	.04	.00	.24
C-3	100	54	42	44	70	57	91	70	30	20	15	19	14	22	46	71	0	765
(1)	3.39	1.83	1.42	1.49	2.37	1.93	3.09	2.37	1.02	.68	.51	.64	.47	.75	1.56	2.41	.00	25.94
(2)	1.18	.64	.49	.52	.82	.67	1.07	.82	.35	.24	.18	.22	.16	.26	.54	.84	.00	9.01
4-7	181	19	18	12	19	36	149	134	103	36	21	19	21	26	38	253	0	1085
(1)	6.14	.64	.61	.41	.64	1.22	5.05	4.54	3.49	1.22	.71	.64	.71	.88	1.29	8.58	.00	36.79
(2)	2.13	.22	.21	.14	.22	.42	1.75	1.58	1.21	.42	.25	.22	.25	.31	.45	2.98	.00	12.78
8-12	95	6	1	0	2	9	42	92	81	42	13	10	25	64	54	222	0	758
(1)	3.22	.20	.03	.00	.07	.31	1.42	3.12	2.75	1.42	.44	.34	.85	2.17	1.83	7.53	.00	25.70
(2)	1.12	.07	.01	.00	.02	.11	.49	1.08	.95	.49	.15	.12	.29	.75	.64	2.61	.00	8.92
13-18	28	0	0	0	1	2	7	17	34	13	4	13	14	43	38	67	0	281
(1)	.95	.00	.00	.00	.03	.07	.24	.58	1.15	.44	.14	.44	.47	1.46	1.29	2.27	.00	9.53
(2)	.33	.00	.00	.00	.01	.02	.08	.20	.40	.15	.05	.15	.16	.51	.45	.79	.00	3.31
19-24	0	0	0	0	0	0	3	3	6	0	1	0	2	4	6	6	0	31
(1)	.00	.00	.00	.00	.00	.00	.10	.10	.20	.00	.03	.00	.07	.14	.20	.20	.00	1.05
(2)	.00	.00	.00	.00	.00	.00	.04	.04	.07	.00	.01	.00	.02	.05	.07	.07	.00	.37
GT 24	0	0	0	0	0	0	0	0	5	0	0	0	1	1	0	2	0	9
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00	.03	.03	.00	.07	.00	.31
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.01	.01	.00	.02	.00	.11
ALL SPEEDS	404	81	61	56	94	106	294	318	262	111	55	63	77	161	182	624	0	2949
(1)	13.70	2.75	2.07	1.90	3.19	3.59	9.97	10.78	8.88	3.76	1.87	2.14	2.61	5.46	6.17	21.16	.00	100.00
(2)	4.76	.95	.72	.66	1.11	1.25	3.46	3.74	3.08	1.31	.65	.74	.91	1.90	2.14	7.35	.00	34.72

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 5F

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 10.00

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	2	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	6
(1)	.12	.24	.12	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.71
(2)	.01	.02	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.07
C-3	38	29	20	18	22	24	29	30	23	6	7	7	7	10	17	36	0	323
(1)	4.48	3.42	2.36	2.12	2.59	2.83	3.42	3.53	2.71	.71	.82	.82	.82	1.18	2.00	4.24	.00	38.04
(2)	.45	.34	.24	.21	.26	.28	.34	.35	.27	.07	.08	.08	.08	.12	.20	.42	.00	3.80
4-7	53	7	4	4	6	13	51	65	27	13	7	11	8	14	26	65	0	374
(1)	6.24	.82	.47	.47	.71	1.53	6.01	7.66	3.18	1.53	.82	1.30	.94	1.65	3.06	7.66	.00	44.05
(2)	.62	.08	.05	.05	.07	.15	.60	.77	.32	.15	.08	.13	.09	.16	.31	.77	.00	4.40
8-12	18	1	0	0	0	0	7	14	7	4	8	3	11	17	6	37	0	133
(1)	2.12	.12	.00	.00	.00	.00	.82	1.65	.82	.47	.94	.35	1.30	2.00	.71	4.36	.00	15.67
(2)	.21	.01	.00	.00	.00	.00	.08	.16	.08	.05	.09	.04	.13	.20	.07	.44	.00	1.57
13-18	2	0	0	0	0	0	0	1	2	1	0	0	0	4	1	2	0	13
(1)	.24	.00	.00	.00	.00	.00	.00	.12	.24	.12	.00	.00	.00	.47	.12	.24	.00	1.53
(2)	.02	.00	.00	.00	.00	.00	.00	.01	.02	.01	.00	.00	.00	.05	.01	.02	.00	.15
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	112	39	25	22	28	38	87	110	59	24	22	21	26	45	51	140	0	849
(1)	13.19	4.59	2.94	2.59	3.30	4.48	10.25	12.96	6.95	2.83	2.59	2.47	3.06	5.30	6.01	16.49	.00	100.00
(2)	1.32	.46	.29	.26	.33	.45	1.02	1.30	.69	.28	.26	.25	.31	.53	.60	1.65	.00	10.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 5G

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = 1.34

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.88	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88
(2)	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
0-3	4	3	0	0	1	3	2	2	3	0	2	2	0	0	3	3	0	28
(1)	3.51	2.63	.00	.00	.88	2.63	1.75	1.75	2.63	.00	1.75	1.75	.00	.00	2.63	2.63	.00	24.56
(2)	.05	.04	.00	.00	.01	.04	.02	.02	.04	.00	.02	.02	.00	.00	.04	.04	.00	.33
4-7	6	1	2	1	0	1	2	7	4	2	3	2	1	2	3	9	0	46
(1)	5.26	.88	1.75	.88	.00	.88	1.75	6.14	3.51	1.75	2.63	1.75	.88	1.75	2.63	7.89	.00	40.35
(2)	.07	.01	.02	.01	.00	.01	.02	.08	.05	.02	.04	.02	.01	.02	.04	.11	.00	.54
8-12	2	1	0	0	0	0	1	1	3	3	3	2	6	7	2	4	0	35
(1)	1.75	.88	.00	.00	.00	.00	.88	.88	2.63	2.63	2.63	1.75	5.26	6.14	1.75	3.51	.00	30.70
(2)	.02	.01	.00	.00	.00	.00	.01	.01	.04	.04	.04	.02	.07	.08	.02	.05	.00	.41
13-18	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.88	.88	.88	.00	.00	.00	.88	.00	.00	.00	3.51
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.00	.00	.00	.01	.00	.00	.00	.05
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	12	5	2	1	1	5	5	11	11	6	8	6	7	10	8	16	0	114
(1)	10.53	4.39	1.75	.88	.88	4.39	4.39	9.65	9.65	5.26	7.02	5.26	6.14	8.77	7.02	14.04	.00	100.00
(2)	.14	.06	.02	.01	.01	.06	.06	.13	.13	.07	.09	.07	.08	.12	.09	.19	.00	1.34

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 5H

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS ALL

CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	4	1	0	2	5	2	2	4	0	2	3	0	1	1	5	0	33
(1)	.01	.05	.01	.00	.02	.06	.02	.02	.05	.00	.02	.04	.00	.01	.01	.06	.00	.39
(2)	.01	.05	.01	.00	.02	.06	.02	.02	.05	.00	.02	.04	.00	.01	.01	.06	.00	.39
C-3	194	125	95	96	134	139	194	155	92	45	44	41	37	57	102	164	0	1714
(1)	2.28	1.47	1.12	1.13	1.58	1.64	2.28	1.83	1.08	.53	.52	.48	.44	.67	1.20	1.93	.00	20.18
(2)	2.28	1.47	1.12	1.13	1.58	1.64	2.28	1.83	1.08	.53	.52	.48	.44	.67	1.20	1.93	.00	20.18
4-7	366	81	50	45	81	134	336	324	249	82	50	49	40	74	112	544	0	2617
(1)	4.31	.95	.59	.53	.95	1.58	3.96	3.81	2.93	.97	.59	.58	.47	.87	1.32	6.41	.00	30.81
(2)	4.31	.95	.59	.53	.95	1.58	3.96	3.81	2.93	.97	.59	.58	.47	.87	1.32	6.41	.00	30.81
8-12	285	52	16	13	16	51	133	247	351	121	51	47	122	205	138	553	0	2401
(1)	3.36	.61	.19	.15	.19	.60	1.57	2.91	4.13	1.42	.60	.55	1.44	2.41	1.62	6.51	.00	28.27
(2)	3.36	.61	.19	.15	.19	.60	1.57	2.91	4.13	1.42	.60	.55	1.44	2.41	1.62	6.51	.00	28.27
13-18	158	29	3	10	4	7	17	37	183	38	16	40	82	219	142	255	0	1240
(1)	1.86	.34	.04	.12	.05	.08	.20	.44	2.15	.45	.19	.47	.97	2.58	1.67	3.00	.00	14.60
(2)	1.86	.34	.04	.12	.05	.08	.20	.44	2.15	.45	.19	.47	.97	2.58	1.67	3.00	.00	14.60
19-24	32	7	0	1	0	0	4	5	29	6	1	7	18	79	57	115	0	361
(1)	.38	.08	.00	.01	.00	.00	.05	.06	.34	.07	.01	.08	.21	.93	.67	1.35	.00	4.25
(2)	.38	.08	.00	.01	.00	.00	.05	.06	.34	.07	.01	.08	.21	.93	.67	1.35	.00	4.25
GT 24	0	0	0	0	0	0	0	0	5	2	0	0	3	24	24	69	0	127
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.06	.02	.00	.00	.04	.28	.28	.81	.00	1.50
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.06	.02	.00	.00	.04	.28	.28	.81	.00	1.50
ALL SPEEDS	1036	298	165	165	237	336	686	770	913	294	164	187	302	659	576	1705	0	8493
(1)	12.20	3.51	1.94	1.94	2.79	3.96	8.08	9.07	10.75	3.46	1.93	2.20	3.56	7.76	6.78	20.08	.00	100.00
(2)	12.20	3.51	1.94	1.94	2.79	3.96	8.08	9.07	10.75	3.46	1.93	2.20	3.56	7.76	6.78	20.08	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 6A

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 1.26

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
(1)	.00	.93	.93	.00	.00	.00	.00	.00	.00	.93	.00	.00	.00	.00	.00	.00	.00	2.78
(2)	.00	.01	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.04
4-7	6	0	0	1	2	2	3	2	0	0	0	0	1	1	6	19	0	43
(1)	5.56	.00	.00	.93	1.85	1.85	2.78	1.85	.00	.00	.00	.00	.93	.93	5.56	17.59	.00	39.81
(2)	.07	.00	.00	.01	.02	.02	.04	.02	.00	.00	.00	.00	.01	.01	.07	.22	.00	.50
8-12	14	0	0	0	0	0	1	0	2	1	0	0	3	1	7	28	0	57
(1)	12.96	.00	.00	.00	.00	.00	.93	.00	1.85	.93	.00	.00	2.78	.93	6.48	25.93	.00	52.78
(2)	.16	.00	.00	.00	.00	.00	.01	.00	.02	.01	.00	.00	.04	.01	.08	.33	.00	.67
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.93	3.70	.00	4.63
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.00	.06
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	20	1	1	1	2	2	4	2	2	2	0	0	4	2	14	51	0	108
(1)	18.52	.93	.93	.93	1.85	1.85	3.70	1.85	1.85	1.85	.00	.00	3.70	1.85	12.96	47.22	.00	100.00
(2)	.23	.01	.01	.01	.02	.02	.05	.02	.02	.02	.00	.00	.05	.02	.16	.60	.00	1.26

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 6B

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 1.90

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	5
(1)	.61	.00	.00	.00	.61	.00	.61	.00	.00	.00	.00	.00	.00	.00	.00	1.23	.00	3.07
(2)	.01	.00	.00	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.06
4-7	7	2	2	0	1	5	5	7	2	0	0	0	0	1	9	31	0	72
(1)	4.29	1.23	1.23	.00	.61	3.07	3.07	4.29	1.23	.00	.00	.00	.00	.61	5.52	19.02	.00	44.17
(2)	.08	.02	.02	.00	.01	.06	.06	.08	.02	.00	.00	.00	.00	.01	.11	.36	.00	.84
8-12	15	1	0	0	1	2	1	6	5	1	0	2	1	5	6	20	0	66
(1)	9.20	.61	.00	.00	.61	1.23	.61	3.68	3.07	.61	.00	1.23	.61	3.07	3.68	12.27	.00	40.49
(2)	.18	.01	.00	.00	.01	.02	.01	.07	.06	.01	.00	.02	.01	.06	.07	.23	.00	.77
13-18	1	0	0	0	0	0	0	0	2	0	0	0	2	3	2	8	0	18
(1)	.61	.00	.00	.00	.00	.00	.00	.00	1.23	.00	.00	.00	1.23	1.84	1.23	4.91	.00	11.04
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.04	.02	.09	.00	.21
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.23	.00	.00	1.23
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	24	3	2	0	3	7	7	13	9	1	0	2	3	9	19	61	0	163
(1)	14.72	1.84	1.23	.00	1.84	4.29	4.29	7.98	5.52	.61	.00	1.23	1.84	5.52	11.66	37.42	.00	100.00
(2)	.28	.04	.02	.00	.04	.08	.08	.15	.11	.01	.00	.02	.04	.11	.22	.71	.00	1.90

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 6C

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS C

CLASS FREQUENCY (PERCENT) = 3.31

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
C-3	5	1	1	1	2	2	4	1	3	0	0	0	0	0	1	2	0	23
(1)	1.77	.35	.35	.35	.71	.71	1.41	.35	1.06	.00	.00	.00	.00	.00	.35	.71	.00	8.13
(2)	.06	.01	.01	.01	.02	.02	.05	.01	.04	.00	.00	.00	.00	.00	.01	.02	.00	.27
4-7	25	4	2	2	7	9	12	18	7	2	1	0	2	2	6	25	0	124
(1)	8.83	1.41	.71	.71	2.47	3.18	4.24	6.36	2.47	.71	.35	.00	.71	.71	2.12	8.83	.00	43.82
(2)	.29	.05	.02	.02	.08	.11	.14	.21	.08	.02	.01	.00	.02	.02	.07	.29	.00	1.45
8-12	25	6	0	0	1	3	0	3	16	3	2	3	4	15	5	17	0	103
(1)	8.83	2.12	.00	.00	.35	1.06	.00	1.06	5.65	1.06	.71	1.06	1.41	5.30	1.77	6.01	.00	36.40
(2)	.29	.07	.00	.00	.01	.04	.00	.04	.19	.04	.02	.04	.05	.18	.06	.20	.00	1.20
13-18	1	0	0	0	0	0	0	0	2	0	0	0	2	7	7	12	0	31
(1)	.35	.00	.00	.00	.00	.00	.00	.00	.71	.00	.00	.00	.71	2.47	2.47	4.24	.00	10.95
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.08	.08	.14	.00	.36
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.00	.00	.71
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	56	11	3	3	10	14	16	22	28	5	3	3	8	24	21	56	0	283
(1)	19.79	3.89	1.06	1.06	3.53	4.95	5.65	7.77	9.89	1.77	1.06	1.06	2.83	8.48	7.42	19.79	.00	100.00
(2)	.65	.13	.04	.04	.12	.16	.19	.26	.33	.06	.04	.04	.09	.28	.25	.65	.00	3.31

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 6D

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 46.06

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	1	0	0	0	0	0	0	0	3	0	0	1	0	1	1	0	0	7
(1)	.03	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.03	.00	.03	.03	.00	.00	.18
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.01	.00	.01	.01	.00	.00	.08
C-3	106	67	61	71	57	53	84	72	56	42	24	24	28	53	86	153	0	1037
(1)	2.69	1.70	1.55	1.80	1.45	1.34	2.11	1.83	1.42	1.06	.61	.61	.71	1.34	2.18	3.88	.00	26.29
(2)	1.24	.78	.71	.83	.67	.62	.98	.84	.65	.49	.28	.28	.33	.62	1.00	1.79	.00	12.11
4-7	171	67	39	60	83	103	100	197	181	46	30	37	78	79	160	299	0	1730
(1)	4.34	1.70	.99	1.52	2.10	2.61	2.54	4.99	4.59	1.17	.76	.94	1.98	2.00	4.06	7.58	.00	43.86
(2)	2.00	.78	.46	.70	.97	1.20	1.17	2.30	2.11	.54	.35	.43	.91	.92	1.87	3.49	.00	20.21
8-12	112	39	9	3	6	19	3	32	162	23	27	39	88	133	99	123	0	917
(1)	2.84	.99	.23	.08	.15	.48	.08	.81	4.11	.58	.68	.99	2.23	3.37	2.51	3.12	.00	23.25
(2)	1.31	.46	.11	.04	.07	.22	.04	.37	1.89	.27	.32	.46	1.03	1.55	1.16	1.44	.00	10.71
13-18	19	5	0	1	0	0	0	1	20	5	3	6	21	78	42	30	0	231
(1)	.48	.13	.00	.03	.00	.00	.00	.03	.51	.13	.08	.15	.53	1.98	1.06	.76	.00	5.86
(2)	.22	.06	.00	.01	.00	.00	.00	.01	.23	.06	.04	.07	.25	.91	.49	.35	.00	2.70
19-24	0	0	0	0	0	0	0	0	0	1	0	0	1	9	11	0	0	22
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.03	.23	.28	.00	.00	.56
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.11	.13	.00	.00	.26
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	409	178	109	135	146	175	187	302	422	117	84	107	216	353	392	605	0	3944
(1)	10.37	4.51	2.76	3.42	3.70	4.44	4.74	7.66	10.70	2.97	2.13	2.71	5.48	8.95	10.12	15.34	.00	100.00
(2)	4.78	2.08	1.27	1.58	1.71	2.04	2.18	3.53	4.93	1.37	.98	1.25	2.52	4.12	4.66	7.07	.00	46.06

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 6E

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA STABILITY CLASS E CLASS FREQUENCY (PERCENT) = 32.52

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	2	0	0	1	0	0	2	1	1	4	1	4	4	3	1	0	0	24
(1)	.07	.00	.00	.04	.00	.00	.07	.04	.04	.14	.04	.14	.14	.11	.04	.00	.00	.86
(2)	.02	.00	.00	.01	.00	.00	.02	.01	.01	.05	.01	.05	.05	.04	.01	.00	.00	.28
C-3	79	42	30	36	41	36	61	90	110	125	189	144	133	171	180	159	0	1626
(1)	2.84	1.51	1.08	1.29	1.47	1.29	2.19	3.23	3.95	4.49	6.79	5.17	4.78	6.14	6.47	5.71	.00	58.41
(2)	.92	.49	.35	.42	.48	.42	.71	1.05	1.28	1.46	2.21	1.68	1.55	2.00	2.10	1.86	.00	18.99
4-7	50	8	6	3	9	34	35	122	113	34	22	35	58	86	135	198	0	948
(1)	1.80	.29	.22	.11	.32	1.22	1.26	4.38	4.06	1.22	.79	1.26	2.08	3.09	4.85	7.11	.00	34.05
(2)	.58	.09	.07	.04	.11	.40	.41	1.42	1.32	.40	.26	.41	.68	1.00	1.58	2.31	.00	11.07
8-12	18	0	0	1	1	4	4	12	25	1	6	3	11	38	27	14	0	165
(1)	.65	.00	.00	.04	.04	.14	.14	.43	.90	.04	.22	.11	.40	1.36	.97	.50	.00	5.93
(2)	.21	.00	.00	.01	.01	.05	.05	.14	.29	.01	.07	.04	.13	.44	.32	.16	.00	1.93
13-18	0	0	0	0	0	0	0	1	2	0	1	0	2	8	4	1	0	19
(1)	.00	.00	.00	.00	.00	.00	.00	.04	.07	.00	.04	.00	.07	.29	.14	.04	.00	.68
(2)	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.01	.00	.02	.09	.05	.01	.00	.22
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.07
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	149	50	36	41	51	74	102	226	251	164	219	186	208	308	347	372	0	2784
(1)	5.35	1.80	1.29	1.47	1.83	2.66	3.66	8.12	9.02	5.89	7.87	6.68	7.47	11.06	12.46	13.36	.00	100.00
(2)	1.74	.58	.42	.48	.60	.86	1.19	2.64	2.93	1.92	2.56	2.17	2.43	3.60	4.05	4.34	.00	32.52

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 6F

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 12.21

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	2	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	6
(1)	.19	.00	.00	.00	.00	.00	.00	.00	.00	.10	.10	.00	.10	.10	.00	.00	.00	.57
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.01	.01	.00	.00	.00	.07
C-3	18	16	6	12	11	8	14	16	43	99	202	152	116	96	61	29	0	899
(1)	1.72	1.53	.57	1.15	1.05	.77	1.34	1.53	4.11	9.47	19.33	14.55	11.10	9.19	5.84	2.78	.00	86.03
(2)	.21	.19	.07	.14	.13	.09	.16	.19	.50	1.16	2.36	1.78	1.35	1.12	.71	.34	.00	10.50
4-7	5	0	1	0	0	0	2	7	7	10	27	7	15	18	17	21	0	137
(1)	.48	.00	.10	.00	.00	.00	.19	.67	.67	.96	2.58	.67	1.44	1.72	1.63	2.01	.00	13.11
(2)	.06	.00	.01	.00	.00	.00	.02	.08	.08	.12	.32	.08	.18	.21	.20	.25	.00	1.60
8-12	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.10	.00	.10	.00	.00	.00	.29
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01	.00	.01	.00	.00	.00	.04
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	25	16	7	12	11	8	16	23	50	111	230	160	132	116	78	50	0	1045
(1)	2.39	1.53	.67	1.15	1.05	.77	1.53	2.20	4.78	10.62	22.01	15.31	12.63	11.10	7.46	4.78	.00	100.00
(2)	.29	.19	.08	.14	.13	.09	.19	.27	.58	1.30	2.69	1.87	1.54	1.35	.91	.58	.00	12.21

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 6G

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = 2.74

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.43	.00	.00	.43	.00	.00	.00	.00	.00	.85
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.02
C-3	7	3	1	6	2	3	2	4	9	18	41	22	25	23	14	9	0	189
(1)	2.98	1.28	.43	2.55	.85	1.28	.85	1.70	3.83	7.66	17.45	9.36	10.64	9.79	5.96	3.83	.00	80.43
(2)	.08	.04	.01	.07	.02	.04	.02	.05	.11	.21	.48	.26	.29	.27	.16	.11	.00	2.21
4-7	0	0	0	1	0	0	1	0	3	9	11	3	1	1	7	7	0	44
(1)	.00	.00	.00	.43	.00	.00	.43	.00	1.28	3.83	4.68	1.28	.43	.43	2.98	2.98	.00	18.72
(2)	.00	.00	.00	.01	.00	.00	.01	.00	.04	.11	.13	.04	.01	.01	.08	.08	.00	.51
8-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	7	3	1	7	2	3	3	4	13	27	52	26	26	24	21	16	0	235
(1)	2.98	1.28	.43	2.98	.85	1.28	1.28	1.70	5.53	11.49	22.13	11.06	11.06	10.21	8.94	6.81	.00	100.00
(2)	.08	.04	.01	.08	.02	.04	.04	.05	.15	.32	.61	.30	.30	.28	.25	.19	.00	2.74

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

TABLE 6H

VERMONT YANKEE JAN 92 - DEC 92 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS ALL

CLASS FREQUENCY (PERCENT) = 100.00

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	5	0	0	1	0	0	2	1	5	5	2	6	5	5	2	0	0	39
(1)	.06	.00	.00	.01	.00	.00	.02	.01	.06	.06	.02	.07	.06	.06	.02	.00	.00	.46
(2)	.06	.00	.00	.01	.00	.00	.02	.01	.06	.06	.02	.07	.06	.06	.02	.00	.00	.46
C-3	216	130	100	126	114	102	166	183	221	285	456	342	302	343	342	354	0	3782
(1)	2.52	1.52	1.17	1.47	1.33	1.19	1.94	2.14	2.58	3.33	5.33	3.99	3.53	4.01	3.99	4.13	.00	44.17
(2)	2.52	1.52	1.17	1.47	1.33	1.19	1.94	2.14	2.58	3.33	5.33	3.99	3.53	4.01	3.99	4.13	.00	44.17
4-7	264	81	50	67	102	153	158	353	313	101	91	82	155	188	340	600	0	3098
(1)	3.08	.95	.58	.78	1.19	1.79	1.85	4.12	3.66	1.18	1.06	.96	1.81	2.20	3.97	7.01	.00	36.18
(2)	3.08	.95	.58	.78	1.19	1.79	1.85	4.12	3.66	1.18	1.06	.96	1.81	2.20	3.97	7.01	.00	36.18
8-12	184	46	9	4	9	28	9	53	210	30	35	48	107	193	144	202	0	1311
(1)	2.15	.54	.11	.05	.11	.33	.11	.62	2.45	.35	.41	.56	1.25	2.25	1.68	2.36	.00	15.31
(2)	2.15	.54	.11	.05	.11	.33	.11	.62	2.45	.35	.41	.56	1.25	2.25	1.68	2.36	.00	15.31
13-18	21	5	0	1	0	0	0	2	26	5	4	6	27	96	56	55	0	304
(1)	.25	.06	.00	.01	.00	.00	.00	.02	.30	.06	.05	.07	.32	1.12	.65	.64	.00	3.55
(2)	.25	.06	.00	.01	.00	.00	.00	.02	.30	.06	.05	.07	.32	1.12	.65	.64	.00	3.55
19-24	0	0	0	0	0	0	0	0	0	1	0	0	1	11	15	0	0	28
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.13	.18	.00	.00	.33
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.13	.18	.00	.00	.33
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ALL SPEEDS	690	262	159	199	225	283	335	592	775	427	588	484	597	836	899	1211	0	8562
(1)	8.06	3.06	1.86	2.32	2.63	3.31	3.91	6.91	9.05	4.99	6.87	5.65	6.97	9.76	10.50	14.14	.00	100.00
(2)	8.06	3.06	1.86	2.32	2.63	3.31	3.91	6.91	9.05	4.99	6.87	5.65	6.97	9.76	10.50	14.14	.00	100.00

(1)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PAGE

(2)=PERCENT OF ALL GOOD OBSERVATIONS FOR THIS PERIOD C= CALM (WIND SPEED LESS THAN OR EQUAL TO .95 MPH)

APPENDIX A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT Supplemental Information Third and Fourth Quarters, 1992

Facility: Vermont Yankee Nuclear Power Station

Licensee: Vermont Yankee Nuclear Power Corporation

1A. TECHNICAL SPECIFICATION LIMITS - DOSE AND DOSE RATE

<u>Technical Specification and Category</u>	<u>Limit</u>
a. <u>Noble Gases</u>	
3.8.E.1 Total body dose rate	500 mrem/yr
3.8.E.1 Skin dose rate	3000 mrem/yr
3.8.F.1 Gamma air dose	5 mrad in a quarter
3.8.F.1 Gamma air dose	10 mrad in a year
3.8.F.1 Beta air dose	10 mrad in a quarter
3.8.F.1 Beta air dose	20 mrad in a year
b. <u>Iodine-131, Iodine-133, Tritium and Radionuclides in Particulate Form With Half-Lives Greater Than 8 Days</u>	
3.8.E.1 Organ dose rate	1500 mrem/yr
3.8.G.1 Organ dose	7.5 mrem in a quarter
3.8.G.1 Organ dose	15 mrem in a year
c. <u>Liquids</u>	
3.8.B.1 Total body dose	1.5 mrem in a quarter
3.8.B.1 Total body dose	3 mrem in a year
3.8.B.1 Organ dose	5 mrem in a quarter
3.8.B.1 Organ dose	10 mrem in a year

APPENDIX A
(Continued)

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

2A. TECHNICAL SPECIFICATION LIMITS - CONCENTRATION

<u>Technical Specification and Category</u>	<u>Limit</u>
a. <u>Noble Gases</u>	No MPC limits
b. <u>Iodine-131, Iodine-133, Tritium and Radionuclides in Particulate Form With Half-Lives</u>	
Greater Than 8 Days	No MPC limits
c. <u>Liquids</u>	
3.8.A.1 Total fraction of MPC excluding noble gases (10CFR20, Appendix B, Table II, Column 2):	≤ 1.0
3.8.A.1 Total noble gas concentration:	$\leq 2E-04$ uCi/cc

3. AVERAGE ENERGY

Provided below are the average energy (\bar{E}) of the radionuclide mixture in releases of fission and activation gases, if applicable.

- | | | | |
|----|-----------------------|----------------|------------------|
| a. | Average gamma energy: | 3rd Quarter | 1.11E+00 MeV/dis |
| | | 4th Quarter | 1.11E+00 MeV/dis |
| b. | Average beta energy: | Not Applicable | |

4. MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

Provided below are the methods used to measure or approximate the total radioactivity in effluents and the methods used to determine radionuclide composition.

APPENDIX A
(Continued)

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

a. Fission and Activation Gases

Continuous stack monitors monitor gross Noble Gas radioactivity released from the plant stack. Total Noble Gas release rates are calculated using this monitor. To determine the isotopic breakdown of the release, samples are taken of the Steam Jet Air Ejector, which is the source gas for the releases. These samples are analyzed by gamma spectroscopy to determine the isotopic composition. The isotopic composition is then proportioned to the gross releases determined from the stack monitor to quantify the individual isotopic releases. These are indicated in Table 1B and the totals of Table 1A.

Beginning in the fourth quarter of 1991, grab samples were obtained from the Turbine Building roof vents. In July, only Xe-135m was detected in the samples. The remainder of the gases indicated were calculated by ratioing the indicated Xe-135m to the other gases using the Steam Jet Air Ejector samples. In September, only Xe-135 was detected in the samples. The remainder of the gases indicated were calculated by ratioing the indicated Xe-135 to the other gases using the Steam Jet Air Ejector samples. For the remainder of this reporting period, only Cs-138 was detected in the samples. The remainder of the gases indicated were calculated by assuming Cs-138 solely from the decay of Xe-138 and then ratioing Xe-138 to the other gases using the Steam Jet Air Ejector samples. These results are indicated in Table 1C and the totals of Table 1A.

The error involved in these steps may be approximately ± 100 percent.

b. Iodines

Continuous isokinetic samples are drawn from the plant stack through a particulate filter and charcoal cartridge. Beginning in the fourth quarter of 1991, continuous particulate and charcoal samples were also taken at the Turbine Building roof vents. The filters and cartridges are normally removed weekly and are analyzed for

APPENDIX A
(Continued)

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT

Iodine-131, 132, 133, 134, and 135. The error involved in these steps may be approximately ± 50 percent.

c. Particulates

The particulate filters described in b. above are also counted for particulate radioactivity. The error involved in this sample is also approximately ± 50 percent.

d. Liquid Effluents

Radioactive liquid effluents released from the facility are continuously monitored. Measurements are also made on a representative sample of each batch of radioactive liquid effluents released. For each batch, station records are retained of the total activity (mCi) released, concentration (uCi/ml) of gross radioactivity, volume (liters), and approximate total quantity of water (liters) used to dilute the liquid effluent prior to release to the Connecticut River.

Each batch of radioactive liquid effluent releases is analyzed for gross gamma and gamma isotopic radioactivity. A monthly proportional composite sample, comprising an aliquot of each batch released during a month, is analyzed for tritium and gross alpha radioactivity. A quarterly proportional composite sample, comprising an aliquot of each batch released during a quarter, is analyzed for Sr-89, Sr-90, and Fe-55.

5. BATCH RELEASES

a. Liquid

There were no routine liquid batch releases during the reporting period.

APPENDIX A
(Continued)

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

b. Gaseous

There were no routine gaseous batch releases during the reporting period.

6. ABNORMAL RELEASES

a. Liquid

On August 14, 1992, the Turbine Building sump water was contaminated with radioactivity by an accidental overflow of the Condensate Demineralizer Backwash Receiving Tank and was inadvertently pumped to the discharge structure for approximately 45 minutes. The total activity of released radioactive materials was $7.49\text{E-}05$ curies. The activity values are included in Tables 2A and 2B.

b. Gaseous

There were no nonroutine gaseous releases during the reporting period.

APPENDIX B

LIQUID HOLDUP TANKS

Requirement: Technical Specification 3.8.D.1 limits the quantity of radioactive material contained in any outside tank. With the quantity of radioactive material in any outside tank exceeding the limits of Technical Specification 3.8.D.1, a description of the events leading to this condition is required in the next Semiannual Effluent Release Report per Technical Specification 6.7.C.1.

Response: The limits of Technical Specification 3.8.D.1 were not exceeded during this reporting period.

APPENDIX C

RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION

Requirement: Radioactive liquid effluent monitoring instrumentation channels are required to be operable in accordance with Technical Specification Table 3.9.1. If an inoperable radioactive liquid effluent monitoring instrument is not returned to operable status prior to a release pursuant to Note 4 of Table 3.9.1, an explanation in the next Semiannual Effluent Release Report of the reason(s) for delay in correcting the inoperability are required per Technical Specification 6.7.C.1.

Response: Since the requirements of Technical Specification Table 3.9.1 governing the operability of radioactive liquid effluent monitoring instrumentation were met for this reporting period, no response is required.

APPENDIX D

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

Requirement: Radioactive gaseous effluent monitoring instrumentation channels are required to be operable in accordance with Technical Specification Table 3.9.2. If inoperable gaseous effluent monitoring instrumentation is not returned to operable status within 30 days pursuant to Note 5 of Table 3.9.2, an explanation in the next Semiannual Effluent Release Report of the reason(s) for the delay in correcting the inoperability is required per Technical Specification 6.7.C.1.

Response: Since the requirements of Technical Specification Table 3.9.2 governing the operability of radioactive gaseous effluent monitoring instrumentation were met for this reporting period, no response is required.

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Requirement: The radiological environmental monitoring program is conducted in accordance with Technical Specification 3.9.C. With milk samples no longer available from one or more of the sample locations required by Technical Specification Table 3.9.3, Technical Specification 6.7.C.1 requires the following to be included in the next Semiannual Effluent Release Report: (1) identify the cause(s) of the sample(s) no longer being available, (2) identify the new location(s) for obtaining available replacement samples and (3) include revised ODCM figure(s) and table(s) reflecting the new location(s).

Response: Milk samples were available at all locations identified in Table 4.1 of the ODCM during the third and fourth quarters of 1992.

APPENDIX F

LAND USE CENSUS

Requirement: A land use census is conducted in accordance with Technical Specification 3.9.D. With a land use census identifying a location(s) which yields at least a 20 percent greater dose or dose commitment than the values currently being calculated in Technical Specification 4.8.G.1, Technical Specification 6.7.C.1 requires the identification of the new location(s) in the next Semiannual Effluent Release Report.

Response: No locations were identified by the 1992 land use census that would yield at least a 20 percent greater dose or dose commitment than the values currently being calculated pursuant to Technical Specification 4.8.G.1.

APPENDIX G

PROCESS CONTROL PROGRAM

Requirement: Technical Specification 6.12.A.1 requires that licensee initiated changes to the Process Control Program (PCP) be submitted to the Commission in the Semiannual Radioactive Effluent Release Report for the period in which the change(s) was made.

Response: There were no licensee initiated changes to the Process Control Program during this reporting period.

APPENDIX H

OFF-SITE DOSE CALCULATION MANUAL

Requirement: Technical Specification 6.13.A.1 requires that licensee initiated changes to the Off-Site Dose Calculation Manual (ODCM) be submitted to the Commission in the Semiannual Radioactive Effluent Release Report for the period in which the change(s) was made effective.

Response: There were no revisions to the Off-Site Dose Calculation Manual during this reporting period.

APPENDIX 1

RADIOACTIVE LIQUID, GASEOUS, AND SOLID WASTE TREATMENT SYSTEMS

Requirement: Technical Specification 6.14.A requires that licensee initiated major changes to the radioactive waste systems (liquid, gaseous, and solid) be reported to the Commission in the Semiannual Radioactive Effluent Release Report for the period in which the evaluation was reviewed by the Plant Operation Review Committee.

Response: There were no licensee initiated major changes to the radioactive waste systems (liquid, gaseous, and solid) during this reporting period.

APPENDIX J

ON-SITE DISPOSAL OF SEPTIC WASTE

Requirement: Off-Site Dose Calculational Manual, Appendix B requires that the dose impact due to on-site disposal of septic waste during the reporting year and from previous years be reported to the Commission in the Semiannual Radioactive Effluent Report filed after January 1, if disposals occur during the reporting year.

Response: There was one on-site disposal of septic waste during the reporting year. The total volume of septage spread was approximately 8,000 gallons. The total activity spread on the 1.9 acres (southern) on-site disposal field during 1992 and from previous years was:

<u>Nuclide</u>	<u>Activity (Ci)</u>
Mn-54	2.77E-07
Co-60	1.20E-05
Zn-65	1.08E-06
Cs-134	9.88E-08
Cs-137	1.60E-06
Ce-141	2.66E-14

The projected hypothetical dose from on-site disposals of septic waste is 1.63E-02 mrem/year. This dose was calculated according to the model and the assumptions of Off-Site Dose Calculational Manual, Appendix B.