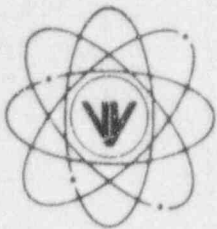


VERMONT YANKEE NUCLEAR POWER CORPORATION



Ferry Road, Brattleboro, VT 05301-7002

REPLY TO
ENGINEERING OFFICE

580 MAIN STREET
BOLTON, MA 01740
(508) 779-6711

March 1, 1995
BVY 95 - 26

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, 1994

Enclosed herewith please find one copy of the Vermont Yankee Nuclear Power Corporation subject report. This report covers the period beginning July 1, 1994 and ending December 31, 1994 and is submitted in accordance with our Technical Specification 6.7.C.1. The annual dose summary to man for 1994 will be submitted in a supplemental report in accordance with Technical Specification 6.7.C.1.b.

Please note that a proposed change to our Technical Specifications has been submitted to NRC for review and approval to bring this reporting requirement in line with the less frequent (annual) submittal schedule detailed in 10CFR50.36a, as amended. We will continue to provide the more frequent semiannual submittals required by our existing Technical Specifications until such time that Vermont Yankee receives the requested license amendment.

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

Sincerely,

VERMONT YANKEE NUCLEAR POWER CORPORATION

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

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

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EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT
FOR
THIRD AND FOURTH QUARTERS, 1994

Vermont Yankee Nuclear Power Station

TABLE 1A
Vermont Yankee
Effluent and Waste Disposal Semiannual Report
Third and Fourth Quarters, 1994
Gaseous Effluents - Summation of All Releases

	Unit	Quarter 3	Quarter 4	Est. Total Error, %
A. Fission and Activation Gases				
1. Total release	Ci	<7.96E+02	<8.04E+02	±1.00E+02
2. Average release rate for period	uCi/sec	<1.01E+02	<1.02E+02	
3. Percent of Tech. Spec. limit (1)	%			
B. Iodines				
1. Total Iodine-131	Ci	6.84E-04	5.42E-04	±5.00E+01
2. Average release rate for period	uCi/sec	8.70E-05	6.89E-05	
3. Percent of Tech. Spec. limit (1)	%			
C. Particulates				
1. Particulates with T-1/2 > 8 days	Ci	2.50E-04	1.53E-04	±5.00E+01
2. Average release rate for period	uCi/sec	3.18E-05	1.95E-05	
3. Percent of Tech. Spec. limit(1)	%			
4. Gross alpha radioactivity	Ci	1.12E-06	9.33E-07	
D. Tritium				
1. Total release	Ci	5.09E+00	7.28E+00	±5.00E+01
2. Average release rate for period	uCi/sec	6.47E-01	9.26E-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 YankeeEffluent and Waste Disposal Semiannual ReportThird and Fourth Quarters, 1994Gaseous 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	<3.03E+00	<3.11E+00		
Krypton-87	Ci	<2.21E+01	<2.23E+01		
Krypton-88	Ci	<9.81E+00	<1.02E+01		
Xenon-133	Ci	<1.23E+00	<1.28E+00		
Xenon-135	Ci	<1.93E+01	<2.05E+01		
Xenon-135m	Ci	<1.40E+02	<1.41E+02		
Xenon-138	Ci	<6.00E+02	<6.05E+02		
Unidentified	Ci				
Total for period	Ci	<7.96E+02	<8.04E+02		
2. Iodines					
Iodine-131	Ci	6.84E-04	5.42E-04		
Iodine-133	Ci	4.16E-03	2.93E-03		
Iodine-135	Ci	ND	ND		
Total for period	Ci	4.84E-03	3.48E-03		
3. Particulates					
Strontium-89	Ci	2.26E-04	1.30E-04		
Strontium-90	Ci	<7.31E-06	<4.92E-06		
Cesium-134	Ci	ND	ND		
Cesium-137	Ci	ND	ND		
Barium-Lanthanum-140	Ci	ND	ND		
Manganese-54	Ci	ND	ND		
Chromium-51	Ci	ND	ND		
Cobalt-58	Ci	ND	ND		
Cobalt-60	Ci	1.69E-05	ND		
Cerium-141	Ci	ND	ND		
Zinc-65	Ci	ND	ND		
Total for period	Ci	2.50E-04	1.34E-04		

(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 1994

Gaseous Effluents - Ground Level Releases⁽²⁾

Nuclides Released	Unit	Continuous Mode		Batch Mode ⁽¹⁾	
		Quarter ⁽³⁾ 3	Quarter 4	Quarter 3	Quarter 4
1. Fission Gases			ND		
Krypton-85	Ci		ND		
Krypton-85m	Ci		ND		
Krypton-87	Ci		ND		
Krypton-88	Ci		ND		
Xenon-133	Ci		ND		
Xenon-135	Ci		ND		
Xenon-135m	Ci		ND		
Xenon-138	Ci		ND		
Xenon-131m	Ci		ND		
Total for period	Ci	0.00E+00	0.00E+00		
2. Iodines ⁽²⁾					
Iodine-131	Ci		ND		
Iodine-133	Ci		ND		
Iodine-135	Ci		ND		
Total for period	Ci	0.00E+00	0.00E+00		
3. Particulates ⁽²⁾					
Strontium-89	Ci		ND		
Strontium-90	Ci		1.09E-07		
Cesium-134	Ci		3.45E-07		
Cesium-137	Ci		3.88E-06		
Barium-Lanthanum-140	Ci		ND		
Manganese-54	Ci		2.45E-06		
Chromium-51	Ci		ND		
Cobalt-58	Ci		5.79E-08		
Cobalt-60	Ci		8.20E-06		
Cerium-141	Ci		ND		
Zinc-65	Ci		3.63E-06		
Total for period	Ci	0.00E+00	1.87E-05		

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

(2) Use of the North Warehouse stack as a ground level release point was initiated at the beginning of the fourth quarter of 1994.

(3) There were no ground level releases during the third quarter.

ND - Not detected in the waste oil sample.

TABLE 1D

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters 1994

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 1994

Liquid Effluents - Summation of All Releases

There were no liquid releases during this reporting period.

TABLE 2B

Vermont Yankee

Effluent and Waste Disposal Semiannual Report

Third and Fourth Quarters 1994

Liquid Effluents - Nonroutine Releases

There were no liquid releases during this reporting period.

TABLE 3

Vermont YankeeEffluent and Waste Disposal Semiannual ReportThird and Fourth Quarters, 1994Solid 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		±7.50E+01
b. Dry compressible waste, contaminated equipment, etc.	m ³ Ci		±7.50E+01
c. Irradiated components, control rods, etc.	m ³ Ci		±7.50E+01

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

a. Zinc-65	%	b. Iron-55	%
Cesium-137	%	Zinc-65	%
Cobalt-60	%	Cobalt-60	%
Cesium-134	%	Manganese-54	%
Manganese-54	%	Cesium-137	%

3. Solid Waste Disposition:

Number of Shipments Mode of Transportation Destination

"No solid waste was disposed during this period."

B. Irradiated Fuel Shipments (Disposition): None

C. Supplemental information

- 1) Class of solid waste containers shipped:
- 2) Types of containers used:
- 3) Solidification agent or absorbent: None

TABLE 5A

VERMONT YANKEE JAN 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = .44

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	1	1	0	1	0	0	0	0	0	0	1	0	6
(1)	2.63	.00	.00	.00	2.63	2.63	2.63	.00	2.63	.00	.00	.00	.00	.00	.00	2.63	.00	15.79
(2)	.01	.00	.00	.00	.01	.01	.01	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.07
4-7	1	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	7
(1)	2.63	.00	.00	.00	.00	.00	10.53	5.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	18.42
(2)	.01	.00	.00	.00	.00	.00	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
8-12	3	0	0	0	0	0	0	1	1	0	0	0	1	0	1	4	0	11
(1)	7.89	.00	.00	.00	.00	.00	.00	2.63	2.63	.00	.00	.00	2.63	.00	2.63	10.53	.00	28.95
(2)	.03	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.01	.00	.01	.05	.00	.13
13-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	9	0	11
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.63	2.63	23.68	.00	28.95
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.10	.00	.13
19-24	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.63	.00	.00	2.63	.00	5.26
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.00	.02
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.63	.00	2.63
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01
ALL SPEEDS	5	0	0	0	1	1	5	3	2	0	0	0	2	1	2	16	0	38
(1)	13.16	.00	.00	.00	2.63	2.63	13.16	7.89	5.26	.00	.00	.00	5.26	2.63	5.26	42.11	.00	100.00
(2)	.06	.00	.00	.00	.01	.01	.06	.03	.02	.00	.00	.00	.02	.01	.02	.19	.00	.44

(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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = .86

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	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	4
(1)	1.35	.00	1.35	.00	.00	.00	1.35	1.35	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.41
(2)	.01	.00	.01	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
4-7	3	1	0	0	0	0	1	3	0	0	0	0	0	0	1	1	0	10
(1)	4.05	1.35	.00	.00	.00	.00	1.35	4.05	.00	.00	.00	.00	.00	.00	1.35	1.35	.00	13.51
(2)	.03	.01	.00	.00	.00	.00	.01	.03	.00	.00	.00	.00	.00	.00	.01	.01	.00	.12
8-12	6	1	0	0	1	0	2	2	4	2	0	0	0	1	1	7	0	27
(1)	8.11	1.35	.00	.00	1.35	.00	2.70	2.70	5.41	2.70	.00	.00	.00	1.35	1.35	9.46	.00	36.49
(2)	.07	.01	.00	.00	.01	.00	.02	.02	.05	.02	.00	.00	.00	.01	.01	.08	.00	.31
13-18	2	0	0	0	0	0	0	0	4	1	0	0	0	6	2	5	0	20
(1)	2.70	.00	.00	.00	.00	.00	.00	.00	5.41	1.35	.00	.00	.00	8.11	2.70	6.76	.00	27.03
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.05	.01	.00	.00	.00	.07	.02	.06	.00	.23
19-24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	0	9
(1)	1.35	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.70	8.11	.00	12.16
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.00	.10
GT 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.41	.00	5.41
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05
ALL SPEEDS	13	2	1	0	1	0	4	6	8	3	0	0	0	7	6	23	0	74
(1)	17.57	2.70	1.35	.00	1.35	.00	5.41	8.11	10.81	4.05	.00	.00	.00	9.46	8.11	31.08	.00	100.00
(2)	.15	.02	.01	.00	.01	.00	.05	.07	.09	.03	.00	.00	.00	.08	.07	.27	.00	.86

(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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA STABILITY CLASS C CLASS FREQUENCY (PERCENT) = 2.92

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	0	2	1	2	0	1	1	0	0	0	0	0	0	1	0	9
(1)	.00	.40	.00	.79	.40	.79	.00	.40	.40	.00	.00	.00	.00	.00	.00	.40	.00	3.57
(2)	.00	.01	.00	.02	.01	.02	.00	.01	.01	.00	.00	.00	.00	.00	.00	.01	.00	.10
4-7	5	3	1	0	0	5	9	4	4	2	0	1	0	0	1	10	0	45
(1)	1.98	1.19	.40	.00	.00	1.98	3.57	1.59	1.59	.79	.00	.40	.00	.00	.40	3.97	.00	17.86
(2)	.06	.03	.01	.00	.00	.06	.10	.05	.05	.02	.00	.01	.00	.00	.01	.12	.00	.52
8-12	18	1	3	0	1	2	8	12	18	4	0	3	3	1	1	14	0	89
(1)	7.14	.40	1.19	.00	.40	.79	3.17	4.76	7.14	1.59	.00	1.19	1.19	.40	.40	5.56	.00	35.32
(2)	.21	.01	.03	.00	.01	.02	.09	.14	.21	.05	.00	.03	.03	.01	.01	.16	.00	1.03
13-18	16	0	0	0	0	0	1	0	8	3	0	2	5	6	10	17	0	68
(1)	6.35	.00	.00	.00	.00	.00	.40	.00	3.17	1.19	.00	.79	1.98	2.38	3.97	6.75	.00	26.98
(2)	.19	.00	.00	.00	.00	.00	.01	.00	.09	.03	.00	.02	.06	.07	.12	.20	.00	.79
19-24	6	0	0	0	0	0	0	0	4	0	0	0	1	1	9	12	0	33
(1)	2.38	.00	.00	.00	.00	.00	.00	.00	1.59	.00	.00	.00	.40	.40	3.57	4.76	.00	13.10
(2)	.07	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.01	.01	.10	.14	.00	.38
GT 24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	0	8
(1)	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.79	1.98	.00	3.17
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.00	.09
ALL SPEEDS	46	5	4	2	2	9	18	17	35	9	0	6	9	8	23	59	0	252
(1)	18.25	1.98	1.59	.79	.79	3.57	7.14	6.75	13.89	3.57	.00	2.38	3.57	3.17	9.13	23.41	.00	100.00
(2)	.53	.06	.05	.02	.02	.10	.21	.20	.41	.10	.00	.07	.10	.09	.27	.68	.00	2.92

(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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 46.59

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	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
(1)	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.05
(2)	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.02
C-3	42	46	37	34	29	44	67	35	35	21	9	6	10	8	21	32	0	476
(1)	1.04	1.14	.92	.84	.72	1.09	1.67	.87	.87	.52	.22	.15	.25	.20	.52	.80	.00	11.83
(2)	.49	.53	.43	.39	.34	.51	.78	.41	.41	.24	.10	.07	.12	.09	.24	.37	.00	5.51
4-7	105	29	24	18	32	43	122	124	102	42	15	10	15	16	34	99	0	830
(1)	2.61	.72	.60	.45	.80	1.07	3.03	3.08	2.53	1.04	.37	.25	.37	.40	.84	2.46	.00	20.63
(2)	1.22	.34	.28	.21	.37	.50	1.41	1.44	1.18	.49	.17	.12	.17	.19	.39	1.15	.00	9.61
8-12	220	56	9	3	19	13	86	78	212	100	31	28	38	106	72	198	0	1269
(1)	5.47	1.39	.22	.07	.47	.32	2.14	1.94	5.27	2.49	.77	.70	.94	2.63	1.79	4.92	.00	31.54
(2)	2.55	.65	.10	.03	.22	.15	1.00	.90	2.45	1.16	.36	.32	.44	1.23	.83	2.29	.00	14.69
13-18	194	25	2	0	1	5	8	10	131	76	17	17	36	172	119	148	0	961
(1)	4.82	.62	.05	.00	.02	.12	.20	.25	3.26	1.89	.42	.42	.89	4.27	2.96	3.68	.00	23.88
(2)	2.25	.29	.02	.00	.01	.06	.09	.12	1.52	.88	.20	.20	.42	1.99	1.38	1.71	.00	11.13
19-24	78	3	0	0	0	1	0	1	19	13	5	5	13	77	65	120	0	400
(1)	1.94	.07	.00	.00	.00	.02	.00	.02	.47	.32	.12	.12	.32	1.91	1.62	2.98	.00	9.94
(2)	.90	.03	.00	.00	.00	.01	.00	.01	.22	.15	.06	.06	.15	.89	.75	1.39	.00	4.63
GT 24	14	0	0	0	0	0	0	1	1	0	1	0	0	11	21	37	0	86
(1)	.35	.00	.00	.00	.00	.00	.00	.02	.02	.00	.02	.00	.00	.27	.52	.92	.00	2.14
(2)	.16	.00	.00	.00	.00	.00	.00	.01	.01	.00	.01	.00	.00	.13	.24	.43	.00	1.00
ALL SPEEDS	653	160	72	55	81	106	283	249	500	252	79	66	112	390	332	634	0	4024
(1)	16.23	3.98	1.79	1.37	2.01	2.63	7.03	6.19	12.43	6.26	1.96	1.64	2.78	9.69	8.25	15.76	.00	100.00
(2)	7.56	1.85	.83	.64	.94	1.23	3.28	2.88	5.79	2.92	.91	.76	1.30	4.52	3.84	7.34	.00	46.59

(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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 32.93

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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.04	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
(2)	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
C-3	73	52	51	47	62	63	97	67	43	13	17	12	14	17	20	48	0	696
(1)	2.57	1.83	1.79	1.65	2.18	2.22	3.41	2.36	1.51	.46	.60	.42	.49	.60	.70	1.69	.00	24.47
(2)	.85	.60	.59	.54	.72	.73	1.12	.78	.50	.15	.20	.14	.16	.20	.23	.56	.00	8.06
4-7	209	34	10	13	14	20	140	143	103	28	19	16	20	26	42	168	0	1005
(1)	7.35	1.20	.35	.46	.49	.70	4.92	5.03	3.62	.98	.67	.56	.70	.91	1.48	5.91	.00	35.34
(2)	2.42	.39	.12	.15	.16	.23	1.62	1.66	1.19	.32	.22	.19	.23	.30	.49	1.95	.00	11.64
8-12	128	7	1	0	4	3	23	44	87	29	13	14	30	74	51	194	0	702
(1)	4.50	.25	.04	.00	.14	.11	.81	1.55	3.06	1.02	.46	.49	1.05	2.60	1.79	6.82	.00	24.68
(2)	1.48	.08	.01	.00	.05	.03	.27	.51	1.01	.34	.15	.16	.35	.86	.59	2.25	.00	8.13
13-18	68	7	0	0	0	1	6	7	32	23	7	1	13	66	44	84	0	359
(1)	2.39	.25	.00	.00	.00	.04	.21	.25	1.13	.81	.25	.04	.46	2.32	1.55	2.95	.00	12.62
(2)	.79	.08	.00	.00	.00	.01	.07	.08	.37	.27	.08	.01	.15	.76	.51	.97	.00	4.16
19-24	16	0	0	0	0	0	0	1	11	2	0	1	3	12	2	28	0	76
(1)	.56	.00	.00	.00	.00	.00	.00	.04	.39	.07	.00	.04	.11	.42	.07	.98	.00	2.67
(2)	.19	.00	.00	.00	.00	.00	.00	.01	.13	.02	.00	.01	.03	.14	.02	.32	.00	.88
GT 24	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	4
(1)	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.04	.04	.00	.14
(2)	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.00	.05
ALL SPEEDS	495	100	63	60	80	88	266	262	276	95	56	44	80	196	160	523	0	2844
(1)	17.41	3.52	2.22	2.11	2.81	3.09	9.35	9.21	9.70	3.34	1.97	1.55	2.81	6.89	5.63	18.39	.00	100.00
(2)	5.73	1.16	.73	.69	.93	1.02	3.08	3.03	3.20	1.10	.65	.51	.93	2.27	1.85	6.06	.00	32.93

(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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 13.13

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	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
(1)	.00	.00	.09	.00	.00	.00	.18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26
(2)	.00	.00	.01	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
C-3	52	35	35	31	23	38	38	25	23	19	12	6	11	15	15	22	0	400
(1)	4.59	3.09	3.09	2.73	2.03	3.35	3.35	2.20	2.03	1.68	1.06	.53	.97	1.32	1.32	1.94	.00	35.27
(2)	.60	.41	.41	.36	.27	.44	.44	.29	.27	.22	.14	.07	.13	.17	.17	.25	.00	4.63
4-7	83	34	6	5	18	13	49	67	30	14	16	10	22	19	27	87	0	500
(1)	7.32	3.00	.53	.44	1.59	1.15	4.32	5.91	2.65	1.23	1.41	.88	1.94	1.68	2.38	7.67	.00	44.09
(2)	.96	.39	.07	.06	.21	.15	.57	.78	.35	.16	.19	.12	.25	.22	.31	1.01	.00	5.79
8-12	38	1	0	0	0	1	17	8	13	11	5	4	13	30	10	59	0	210
(1)	3.35	.09	.00	.00	.00	.09	1.50	.71	1.15	.97	.44	.35	1.15	2.65	.88	5.20	.00	18.52
(2)	.44	.01	.00	.00	.00	.01	.20	.09	.15	.13	.06	.05	.15	.35	.12	.68	.00	2.43
13-18	4	1	0	0	0	0	0	0	0	1	1	0	2	4	4	4	0	21
(1)	.35	.09	.00	.00	.00	.00	.00	.00	.00	.09	.09	.00	.18	.35	.35	.35	.00	1.85
(2)	.05	.01	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.02	.05	.05	.05	.00	.24
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	177	71	42	36	41	52	106	100	66	45	34	20	48	68	56	172	0	1134
(1)	15.61	6.26	3.70	3.17	3.62	4.59	9.35	8.82	5.82	3.97	3.00	1.76	4.23	6.00	4.94	15.17	.00	100.00
(2)	2.05	.82	.49	.42	.47	.60	1.23	1.16	.76	.52	.39	.23	.56	.79	.65	1.99	.00	13.13

(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 5G

VERMONT YANKEE JAN 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

297.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = 3.14

WIND DIRECTION FROM

SPEED(MPH)	M	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	7	2	8	5	5	4	12	2	7	3	2	2	2	3	5	9	0	78
(1)	2.58	.74	2.95	1.85	1.85	1.48	4.43	.74	2.58	1.11	.74	.74	.74	1.11	1.85	3.32	.00	28.78
(2)	.08	.02	.09	.06	.06	.05	.14	.02	.08	.03	.02	.02	.02	.03	.06	.10	.00	.90
4-7	11	1	1	3	3	2	9	16	9	6	7	6	5	7	11	20	0	117
(1)	4.06	.37	.37	1.11	1.11	.74	3.32	5.90	3.32	2.21	2.58	2.21	1.85	2.58	4.06	7.38	.00	43.17
(2)	.13	.01	.01	.03	.03	.02	.10	.19	.10	.07	.08	.07	.06	.08	.13	.23	.00	1.35
8-12	4	0	0	0	0	0	4	2	2	11	4	5	9	7	9	15	0	72
(1)	1.48	.00	.00	.00	.00	.00	1.48	.74	.74	4.06	1.48	1.85	3.32	2.58	3.32	5.54	.00	26.57
(2)	.05	.00	.00	.00	.00	.00	.05	.02	.02	.13	.05	.06	.10	.08	.10	.17	.00	.83
13-18	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	4
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.37	.00	.74	.00	.00	.00	1.48
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01	.00	.02	.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	22	3	9	8	8	6	25	20	18	21	13	14	16	19	25	44	0	271
(1)	8.12	1.11	3.32	2.95	2.95	2.21	9.23	7.38	6.64	7.75	4.80	5.17	5.90	7.01	9.23	16.24	.00	100.00
(2)	.25	.03	.10	.09	.09	.07	.29	.23	.21	.24	.15	.16	.19	.22	.29	.51	.00	3.14

(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 94 - DEC 94 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	0	1	2	0	0	1	2	0	0	0	1	0	0	0	0	0	0	7
(1)	.00	.01	.02	.00	.00	.01	.02	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.08
(2)	.00	.01	.02	.00	.00	.01	.02	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.08
C-3	176	136	132	119	121	152	216	131	110	56	40	26	37	43	61	113	0	1669
(1)	2.04	1.57	1.53	1.38	1.40	1.76	2.50	1.52	1.27	.65	.46	.30	.43	.50	.71	1.31	.00	19.32
(2)	2.04	1.57	1.53	1.38	1.40	1.76	2.50	1.52	1.27	.65	.46	.30	.43	.50	.71	1.31	.00	19.32
4-7	417	102	42	39	67	83	334	359	248	92	57	43	62	68	116	385	0	2514
(1)	4.83	1.18	.49	.45	.78	.96	3.87	4.16	2.87	1.07	.66	.50	.72	.79	1.34	4.46	.00	29.11
(2)	4.83	1.18	.49	.45	.78	.96	3.87	4.16	2.87	1.07	.66	.50	.72	.79	1.34	4.46	.00	29.11
8-12	417	66	13	3	25	19	140	147	337	157	53	54	94	219	145	491	0	2380
(1)	4.83	.76	.15	.03	.29	.22	1.62	1.70	3.90	1.82	.61	.63	1.09	2.54	1.68	5.68	.00	27.56
(2)	4.83	.76	.15	.03	.29	.22	1.62	1.70	3.90	1.82	.61	.63	1.09	2.54	1.68	5.68	.00	27.56
13-18	284	33	2	0	1	6	15	17	175	105	25	21	56	257	180	267	0	1444
(1)	3.29	.38	.02	.00	.01	.07	.17	.20	2.03	1.22	.29	.24	.65	2.98	2.08	3.09	.00	16.72
(2)	3.29	.38	.02	.00	.01	.07	.17	.20	2.03	1.22	.29	.24	.65	2.98	2.08	3.09	.00	16.72
19-24	101	3	0	0	0	1	0	2	34	15	5	6	18	90	78	167	0	520
(1)	1.17	.03	.00	.00	.00	.01	.00	.02	.39	.17	.06	.07	.21	1.04	.90	1.93	.00	6.02
(2)	1.17	.03	.00	.00	.00	.01	.00	.02	.39	.17	.06	.07	.21	1.04	.90	1.93	.00	6.02
GT 24	16	0	0	0	0	0	0	1	1	0	1	0	0	12	24	48	0	103
(1)	.19	.00	.00	.00	.00	.00	.00	.01	.01	.00	.01	.00	.00	.14	.28	.56	.00	1.19
(2)	.19	.00	.00	.00	.00	.00	.00	.01	.01	.00	.01	.00	.00	.14	.28	.56	.00	1.19
ALL SPEEDS	1411	341	191	161	214	262	707	657	905	425	182	150	267	689	604	1471	0	8637
(1)	16.34	3.95	2.21	1.86	2.48	3.03	8.19	7.61	10.48	4.92	2.11	1.74	3.09	7.98	6.99	17.03	.00	100.00
(2)	16.34	3.95	2.21	1.86	2.48	3.03	8.19	7.61	10.48	4.92	2.11	1.74	3.09	7.98	6.99	17.03	.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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS A

CLASS FREQUENCY (PERCENT) = 1.22

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VR3L	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	2	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	6
(1)	.00	1.92	1.92	.00	.00	.00	.96	.00	.96	.00	.00	.00	.00	.00	.00	.00	.00	5.77
(2)	.00	.02	.02	.00	.00	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.07
4-7	8	3	2	0	0	2	2	2	1	0	0	0	0	0	0	14	0	34
(1)	7.69	2.88	1.92	.00	.00	1.92	1.92	1.92	.96	.00	.00	.00	.00	.00	.00	13.46	.00	32.69
(2)	.09	.04	.02	.00	.00	.02	.02	.02	.01	.00	.00	.00	.00	.00	.00	.16	.00	.40
8-12	11	1	0	0	0	1	0	3	0	1	0	1	6	4	5	21	0	54
(1)	10.58	.96	.00	.00	.00	.96	.00	2.88	.00	.96	.00	.96	5.77	3.85	4.81	20.19	.00	51.92
(2)	.13	.01	.00	.00	.00	.01	.00	.04	.00	.01	.00	.01	.07	.05	.06	.25	.00	.63
13-18	3	0	0	0	0	0	0	0	0	0	0	0	1	0	2	4	0	10
(1)	2.88	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.96	.00	1.92	3.85	.00	9.62
(2)	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.02	.05	.00	.12
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	22	6	4	0	0	3	3	5	2	1	0	1	7	4	7	39	0	104
(1)	21.15	5.77	3.85	.00	.00	2.88	2.88	4.81	1.92	.96	.00	.96	6.73	3.85	6.73	37.50	.00	100.00
(2)	.26	.07	.05	.00	.00	.04	.04	.06	.02	.01	.00	.01	.08	.05	.08	.46	.00	1.22

(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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS B

CLASS FREQUENCY (PERCENT) = 1.20

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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
(1)	.00	.00	.00	1.96	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.96
(2)	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
4-7	7	1	1	0	2	2	3	7	1	0	1	0	0	0	2	13	0	40
(1)	6.86	.98	.98	.00	1.96	1.96	2.94	6.86	.98	.00	.98	.00	.00	.00	1.96	12.75	.00	39.22
(2)	.08	.01	.01	.00	.02	.02	.04	.08	.01	.00	.01	.00	.00	.00	.02	.15	.00	.47
8-12	6	0	0	0	0	0	0	3	5	2	1	0	4	2	6	17	0	46
(1)	5.88	.00	.00	.00	.00	.00	.00	2.94	4.90	1.96	.98	.00	3.92	1.96	5.88	16.67	.00	45.10
(2)	.07	.00	.00	.00	.00	.00	.00	.04	.06	.02	.01	.00	.05	.02	.07	.20	.00	.54
13-18	2	0	0	0	0	0	0	0	2	0	0	0	2	3	2	3	0	14
(1)	1.96	.00	.00	.00	.00	.00	.00	.00	1.96	.00	.00	.00	1.96	2.94	1.96	2.94	.00	13.73
(2)	.02	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.02	.04	.02	.04	.00	.16
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	15	1	1	2	2	2	3	10	8	2	2	0	6	5	10	33	0	102
(1)	14.71	.98	.98	1.96	1.96	1.96	2.94	9.80	7.84	1.96	1.96	.00	5.88	4.90	9.80	32.35	.00	100.00
(2)	.18	.01	.01	.02	.02	.02	.04	.12	.09	.02	.02	.00	.07	.06	.12	.39	.00	1.20

(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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS C

CLASS FREQUENCY (PERCENT) = 2.90

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	0	0	2	2	0	1	1	0	0	1	0	0	0	0	0	0	0	7
(1)	.00	.00	.81	.81	.00	.40	.40	.00	.00	.40	.00	.00	.00	.00	.00	.00	.00	2.83
(2)	.00	.00	.02	.02	.00	.01	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.08
4-7	21	2	2	4	2	8	8	13	6	1	2	3	4	0	8	35	0	119
(1)	8.50	.81	.81	1.62	.81	3.24	3.24	5.26	2.43	.40	.81	1.21	1.62	.00	3.24	14.17	.00	48.18
(2)	.25	.02	.02	.05	.02	.09	.09	.15	.07	.01	.02	.04	.05	.00	.09	.41	.00	1.40
8-12	21	1	0	1	1	0	0	4	16	2	1	0	8	6	12	22	0	95
(1)	8.50	.40	.00	.40	.40	.00	.00	1.62	6.48	.81	.40	.00	3.24	2.43	4.86	8.91	.00	38.46
(2)	.25	.01	.00	.01	.01	.00	.00	.05	.19	.02	.01	.00	.09	.07	.14	.26	.00	1.12
13-18	5	0	0	0	0	0	0	0	1	0	0	1	2	7	4	3	0	23
(1)	2.02	.00	.00	.00	.00	.00	.00	.00	.40	.00	.00	.40	.81	2.83	1.62	1.21	.00	9.31
(2)	.06	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.02	.08	.05	.04	.00	.27
19-24	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	3
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40	.00	.81	.00	.00	1.21
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.02	.00	.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	47	3	4	7	3	9	9	17	23	4	3	4	15	13	26	60	0	247
(1)	19.03	1.21	1.62	2.83	1.21	3.64	3.64	6.88	9.31	1.62	1.21	1.62	6.07	5.26	10.53	24.29	.00	100.00
(2)	.55	.04	.05	.08	.04	.11	.11	.20	.27	.05	.04	.05	.18	.15	.31	.70	.00	2.90

(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 6D

VERMONT YANKEE JAN 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS D

CLASS FREQUENCY (PERCENT) = 42.98

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	1	0	0	0	0	0	0	0	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
(2)	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
C-3	69	49	51	53	51	44	46	56	43	34	43	28	28	34	50	81	0	760
(1)	1.89	1.34	1.39	1.45	1.39	1.20	1.26	1.53	1.18	.93	1.18	.77	.77	.93	1.37	2.21	.00	20.78
(2)	.81	.58	.60	.62	.60	.52	.54	.66	.51	.40	.51	.33	.33	.40	.59	.95	.00	8.93
4-7	206	61	28	50	83	107	94	159	150	44	29	30	48	55	105	289	0	1538
(1)	5.63	1.67	.77	1.37	2.27	2.93	2.57	4.35	4.10	1.20	.79	.82	1.31	1.50	2.87	7.90	.00	42.04
(2)	2.42	.72	.33	.59	.98	1.26	1.10	1.87	1.76	.52	.34	.35	.56	.65	1.23	3.40	.00	18.07
8-12	200	39	4	2	21	24	2	33	184	31	29	15	70	153	116	154	0	1077
(1)	5.47	1.07	.11	.05	.57	.66	.05	.90	5.03	.85	.79	.41	1.91	4.18	3.17	4.21	.00	29.44
(2)	2.35	.46	.05	.02	.25	.28	.02	.39	2.16	.36	.34	.18	.82	1.80	1.36	1.81	.00	12.65
13-18	33	2	0	0	0	0	0	1	25	4	3	1	16	66	88	30	0	269
(1)	.90	.05	.00	.00	.00	.00	.00	.03	.68	.11	.08	.03	.44	1.80	2.41	.82	.00	7.35
(2)	.39	.02	.00	.00	.00	.00	.00	.01	.29	.05	.04	.01	.19	.77	1.03	.35	.00	3.16
19-24	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	0	0	13
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.25	.00	.00	.36
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.11	.00	.00	.15
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	508	151	83	105	156	175	142	249	402	113	104	74	162	312	368	554	0	3658
(1)	13.89	4.13	2.27	2.87	4.26	4.78	3.88	6.81	10.99	3.09	2.84	2.02	4.43	8.53	10.06	15.14	.00	100.00
(2)	5.97	1.77	.98	1.23	1.83	2.06	1.67	2.93	4.72	1.33	1.22	.87	1.90	3.67	4.32	6.51	.00	42.98

(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 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS E

CLASS FREQUENCY (PERCENT) = 32.06

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	1	1	1	1	0	0	0	2	1	2	0	0	10
(1)	.04	.00	.00	.00	.00	.04	.04	.04	.04	.00	.00	.00	.07	.04	.07	.00	.00	.37
(2)	.01	.00	.00	.00	.00	.01	.01	.01	.01	.00	.00	.00	.02	.01	.02	.00	.00	.12
C-3	91	43	34	25	40	45	48	70	101	118	177	123	122	138	153	162	0	1490
(1)	3.33	1.58	1.25	.92	1.47	1.65	1.76	2.57	3.70	4.32	6.49	4.51	4.47	5.06	5.61	5.94	.00	54.60
(2)	1.07	.51	.40	.29	.47	.53	.56	.82	1.19	1.39	2.08	1.45	1.43	1.62	1.80	1.90	.00	17.51
4-7	72	13	6	13	20	25	27	85	74	38	34	33	72	61	144	192	0	909
(1)	2.64	.48	.22	.48	.73	.92	.99	3.11	2.71	1.39	1.25	1.21	2.64	2.24	5.28	7.04	.00	33.31
(2)	.85	.15	.07	.15	.23	.29	.32	1.00	.87	.45	.40	.39	.85	.72	1.69	2.26	.00	10.68
8-12	27	2	1	1	11	2	1	10	51	15	5	2	25	56	51	32	0	292
(1)	.99	.07	.04	.04	.40	.07	.04	.37	1.87	.55	.18	.07	.92	2.05	1.87	1.17	.00	10.70
(2)	.32	.02	.01	.01	.13	.02	.01	.12	.60	.18	.06	.02	.29	.66	.60	.38	.00	3.43
13-18	5	0	0	0	0	0	0	0	5	1	1	3	1	3	7	2	0	28
(1)	.18	.00	.00	.00	.00	.00	.00	.00	.18	.04	.04	.11	.04	.11	.26	.07	.00	1.03
(2)	.06	.00	.00	.00	.00	.00	.00	.00	.06	.01	.01	.04	.01	.04	.08	.02	.00	.33
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	196	58	41	39	71	73	77	166	232	172	217	161	222	259	357	388	0	2729
(1)	7.18	2.13	1.50	1.43	2.60	2.67	2.82	6.08	8.50	6.30	7.95	5.90	8.13	9.49	13.08	14.22	.00	100.00
(2)	2.30	.68	.48	.46	.83	.86	.90	1.95	2.73	2.02	2.55	1.89	2.61	3.04	4.19	4.56	.00	32.06

(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 6F

VERMONT YANKEE JAN 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS F

CLASS FREQUENCY (PERCENT) = 14.52

WIND DIRECTION FROM

SPEED(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VRBL	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.08
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.01
C-3	42	16	21	14	17	18	28	30	43	94	194	176	118	116	82	70	0	1079
(1)	3.40	1.29	1.70	1.13	1.38	1.46	2.27	2.43	3.48	7.61	15.70	14.24	9.55	9.39	6.63	5.66	.00	87.30
(2)	.49	.19	.25	.16	.20	.21	.33	.35	.51	1.10	2.28	2.07	1.39	1.36	.96	.82	.00	12.68
4-7	5	1	0	0	1	2	1	5	12	13	25	10	17	16	22	21	0	151
(1)	.40	.08	.00	.00	.08	.16	.08	.40	.97	1.05	2.02	.81	1.38	1.29	1.78	1.70	.00	12.22
(2)	.06	.01	.00	.00	.01	.02	.01	.06	.14	.15	.29	.12	.20	.19	.26	.25	.00	1.77
8-12	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	1	0	5
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.24	.00	.08	.00	.40
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.04	.00	.01	.00	.06
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	47	17	21	14	18	20	29	35	55	107	220	187	135	135	104	92	0	1236
(1)	3.80	1.38	1.70	1.13	1.46	1.62	2.35	2.83	4.45	8.66	17.80	15.13	10.92	10.92	8.41	7.44	.00	100.00
(2)	.55	.20	.25	.16	.21	.23	.34	.41	.65	1.26	2.58	2.20	1.59	1.59	1.22	1.08	.00	14.52

(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 6G

VERMONT YANKEE JAN 94 - DEC 94 METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION

35.0 FT WIND DATA

STABILITY CLASS G

CLASS FREQUENCY (PERCENT) = 5.11

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	18	15	8	13	7	13	9	22	22	37	57	33	33	22	29	32	0	370
(1)	4.14	3.45	1.84	2.99	1.61	2.99	2.07	5.06	5.06	8.51	13.10	7.59	7.59	5.06	6.67	7.36	.00	85.06
(2)	.21	.18	.09	.15	.08	.15	.11	.26	.26	.43	.67	.39	.39	.26	.34	.38	.00	4.35
4-7	1	0	0	0	0	0	0	4	1	9	22	8	3	5	5	7	0	65
(1)	.23	.00	.00	.00	.00	.00	.00	.92	.23	2.07	5.06	1.84	.69	1.15	1.15	1.61	.00	14.94
(2)	.01	.00	.00	.00	.00	.00	.00	.05	.01	.11	.26	.09	.04	.06	.06	.08	.00	.76
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	19	15	8	13	7	13	9	26	23	46	79	41	36	27	34	39	0	435
(1)	4.37	3.45	1.84	2.99	1.61	2.99	2.07	5.98	5.29	10.57	18.16	9.43	8.28	6.21	7.82	8.97	.00	100.00
(2)	.22	.18	.09	.15	.08	.15	.11	.31	.27	.54	.93	.48	.42	.32	.40	.46	.00	5.11

(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 94 - DEC 94 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	1	0	0	0	1	1	1	1	1	0	0	1	2	1	2	0	0	12
(1)	.01	.00	.00	.00	.01	.01	.01	.01	.01	.00	.00	.01	.02	.01	.02	.00	.00	.14
(2)	.01	.00	.00	.00	.01	.01	.01	.01	.01	.00	.00	.01	.02	.01	.02	.00	.00	.14
C-3	220	125	118	109	115	121	133	178	210	284	471	360	301	310	314	345	0	3714
(1)	2.58	1.47	1.39	1.28	1.35	1.42	1.56	2.09	2.47	3.34	5.53	4.23	3.54	3.64	3.69	4.05	.00	43.64
(2)	2.58	1.47	1.39	1.28	1.35	1.42	1.56	2.09	2.47	3.34	5.53	4.23	3.54	3.64	3.69	4.05	.00	43.64
4-7	320	81	39	67	108	146	135	275	245	105	113	84	144	137	286	571	0	2856
(1)	3.76	.95	.46	.79	1.27	1.72	1.59	3.23	2.88	1.23	1.33	.99	1.69	1.61	3.36	6.71	.00	33.56
(2)	3.76	.95	.46	.79	1.27	1.72	1.59	3.23	2.88	1.23	1.33	.99	1.69	1.61	3.36	6.71	.00	33.56
8-12	265	43	5	4	33	27	3	53	256	51	37	18	113	224	190	247	0	1569
(1)	3.11	.51	.06	.05	.39	.32	.04	.62	3.01	.60	.43	.21	1.33	2.63	2.23	2.90	.00	18.43
(2)	3.11	.51	.06	.05	.39	.32	.04	.62	3.01	.60	.43	.21	1.33	2.63	2.23	2.90	.00	18.43
13-13	48	2	0	0	0	0	0	1	33	5	4	5	22	79	103	42	0	344
(1)	.56	.02	.00	.00	.00	.00	.00	.01	.39	.06	.05	.06	.26	.93	1.21	.49	.00	4.04
(2)	.56	.02	.00	.00	.00	.00	.00	.01	.39	.06	.05	.06	.26	.93	1.21	.49	.00	4.04
19-24	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	0	0	16
(1)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.13	.00	.00	.19
(2)	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.13	.00	.00	.19
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	854	251	162	180	257	295	272	508	745	445	625	468	583	755	906	1205	0	8511
(1)	10.03	2.95	1.90	2.11	3.02	3.47	3.20	5.97	8.75	5.23	7.34	5.50	6.85	8.87	10.55	14.16	.00	100.00
(2)	10.03	2.95	1.90	2.11	3.02	3.47	3.20	5.97	8.75	5.23	7.34	5.50	6.85	8.87	10.55	14.16	.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, 1994

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 (No ECL Limits)
b. <u>Iodine-131, Iodine-133, Tritium and Radionuclides in Particulate Form With Half-Lives</u>	
Greater Than 8 Days	No MPC Limits (No ECL Limits)
c. <u>Liquids</u>	
3.8.A.1 Total fraction of MPC (ECL) 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 | 8.00E-01 MeV/dis |
| | | 4th Quarter | 8.10E-01 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 SEMIANNUAL 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.

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. The filters and cartridges are normally removed weekly and are analyzed for 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. Waste Oil

Prior to issuing the permit to burn a drum of radioactively contaminated waste oil, one liter of the oil is analyzed by gamma spectroscopy to determine concentrations of radionuclides that meet or exceed the LLD for all of the liquid phase radionuclides listed in Technical Specification Table 4.8.1. Samples that have a visible water layer are not analyzed. The water must first be removed from the drum of oil and resampled.

APPENDIX A
(Continued)

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

Monthly, samples from drums that were issued burn permits are sent to the E-Lab for compositing and analysis. The E-Lab analyzes for tritium, alpha, Fe-55, Sr-89, and Sr-90 on the composite sample.

The waste oil samples are liquid effluents that end up as a gaseous ground level release.

e. 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.

b. Gaseous

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

APPENDIX A
(Continued)

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

6. ABNORMAL RELEASES

a. Liquid

There were no nonroutine liquid releases during the reporting period.

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: No changes were needed in the milk sampling locations specified in Technical Specification Table 3.9.3 due to sample unavailability during the third and fourth quarters of 1994.

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: The Land Use Census was completed in the third quarter of 1994. No locations yielded a 20 percent greater dose or dose commitment than the values currently being calculated in 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 licensee-initiated changes to the Off-Site Dose Calculation Manual during this reporting period.

APPENDIX I

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: The radwaste centrifuge/hopper resin dewatering system was replaced with an in-cask Rapid Dewater System, RDS-1000, supplied by Chem-Nuclear Systems, Inc., during this reporting period.

The information for this change will be submitted to the Commission as part of the periodic FSAR update as permitted per Technical Specification 6.14.A.

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 12,000 gallons. The total activity spread on the 1.9 acres (southern) on-site disposal field during 1994 and from previous years was:

<u>Nuclide</u>	<u>Activity (Ci)</u>
Mn-54	2.66E-07
Co-60	1.28E-05
Zn-65	3.99E-07
Cs-134	5.70E-08
Cs-137	2.30E-06

The projected hypothetical dose from on-site disposals of septic waste is 1.16E-02 mrem/year. This dose was calculated according to the model and the assumptions of Off-Site Dose Calculational Manual, Appendix B.