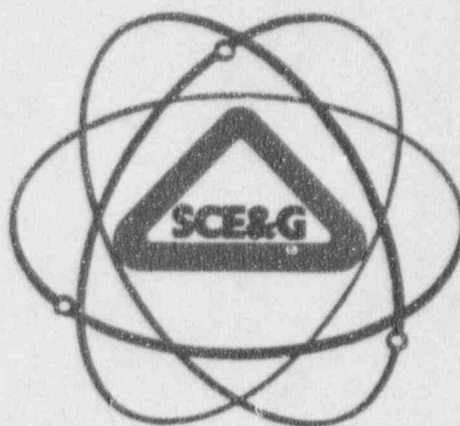


SEMIANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

FOR THE OPERATING PERIOD

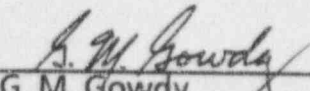
July 1, 1994 - December 31, 1994

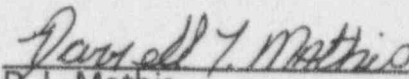
February 1995




V. C. SUMMER NUCLEAR STATION
SOUTH CAROLINA ELECTRIC AND GAS COMPANY

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SEMIANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

July - December, 1994

Virgil C. Summer Nuclear Station South Carolina Electric & Gas

This report is being submitted as a summary of quantities of radioactive liquid and gaseous effluents and solid waste released from the Virgil C. Summer Nuclear Station. This report satisfies the requirements in Technical Specification sections 6.9.1.8 and 6.14.2, Offsite Dose Calculation Manual (ODCM) section 1.6.2, and 10CFR50.36(a). Also included is an assessment of radiation doses from plant releases.

A brief discussion of the Supplemental Information and Tables 2 through 6 is presented in Sections A through D. An evaluation of the radiological impact on man due to operation of the Virgil C. Summer Nuclear Station is presented in Section E and Table 1. A summary of the meteorological data for 1994 is presented in Section F and Tables 7 and 8. Changes made to the Offsite Dose Calculation Manual (ODCM) during the six month period are summarized in Section G and a copy of the ODCM is presented in Attachment I. Section H provides information on one reportable incident occurring during the period.

A. Supplemental Information

Regulatory limits for doses and maximum permissible concentrations presented in Supplemental Information are from the Virgil C. Summer Nuclear Station Technical Specifications and 40 CFR 190. Average energy (\bar{E}) is not applicable to the method for determining release rate limits for fission and activation gaseous effluents; therefore, it has been omitted.

B. Gaseous Effluents

Gaseous effluents released from ground level are summarized in Tables 2 and 3. An elevated release pathway does not exist at Virgil C. Summer Nuclear Station. Cumulative doses are discussed in Section E.

The errors for gaseous effluent totals are given as the square root of the sum of squares of counting errors and flow or volume measurement errors. A systematic error of 15% has been added to estimate total error.

C. Liquid Effluents

Liquid effluents are summarized in Tables 4 and 5. Estimated total errors are expressed as in Section B above.

D. Solid Waste Shipments

Solid waste shipments are summarized in Table 6. Curie content of radioactive waste packages is determined by dose rates and/or analysis of samples by gamma spectroscopy. The total error for each type of Curie content determination is conservatively estimated to be the sum of a 15% systematic error and a 20% photon response error for the detector used.

E. Radiological Impact on Man

Potential doses to the maximum exposed individual in the unrestricted area were calculated using measured plant gaseous effluent and meteorological data in accordance with the Offsite Dose Calculation Manual. The source term

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involved six (6) waste gas decay tank (WGDT) releases, 1.26 days of 6-inch and 72.93 days of 36-inch Reactor Building purge releases and a continuous six month main plant vent release. Doses are summarized in Table 1. The total activities released are presented in Tables 2 and 3. Air doses to the maximum exposed individual due to noble gases were $3.65\text{E-}2$ and $4.07\text{E-}2$ mrad for gamma and beta, respectively. The maximum organ dose attributed to the releases was $1.47\text{E-}2$ mrem for the six month period. Cumulative annual doses were $3.75\text{E-}2$ mrad, $4.29\text{E-}2$ mrad and $2.12\text{E-}2$ mrem for gamma, beta and organ dose, respectively.

Measured plant liquid effluent data was used to calculate estimates of doses to individuals in accordance with the Offsite Dose Calculation Manual. The source term consisted of the isotopic contents of 230 Waste Monitor Tank batch releases, 33.15 days of Steam Generator Blowdown releases and a continuous Turbine Building Sump release. Doses are summarized in Table 1 and total radioactivity released is described in Tables 4 and 5. The total body dose to the maximally exposed individual due to the release of radioactive liquid was $1.09\text{E-}2$ mrem. The maximum organ dose was $4.54\text{E-}2$ mrem to the thyroid during the six month period. Cumulative annual doses for the hypothetical maximally exposed individual were $1.65\text{E-}2$ mrem and $5.08\text{E-}2$ mrem for the total body and thyroid (maximum annual organ), respectively.

Dose rates and concentrations were below the limits specified in Supplemental Information, Section 2a, b and c during all the effluent releases.

Radiation doses from radioactive effluents to members of the public due to their activities inside the site boundary were assessed in a manner different from that in the Offsite Dose Calculation Manual. Monthly thermoluminescent dosimetry data from eight (8) monitoring locations within the site boundary and ten (10) locations around the site boundary perimeter were analyzed and compared with respective pre-operational background and previous year history. Results showed that 1994 monthly dose rates did not differ significantly from the pre-operational or 1993 dose rates. It was concluded that doses to members of the public inside the site boundary were indistinguishable from normal background dose.

Radiation doses from radioactive effluents to workers at the Fairfield Hydro Station for the six month period were calculated to be $1.72\text{E-}3$ and $1.92\text{E-}3$ mrad for gamma and beta, respectively. Annual cumulative doses were $1.76\text{E-}3$ and $2.02\text{E-}3$ mrad, respectively.

Radiation doses from nearby uranium fuel cycle sources were not assessed. The ODCM, Sections 1.3.1 and B/1.3 establish a five (5) mile limit beyond which doses from nearby plants are insignificant. There are no uranium fuel cycle plants within a five (5) mile radius of Virgil C. Summer Nuclear Station.

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Table 1
GASEOUS AND LIQUID DOSES

ODCM Section	<u>GASEOUS LIMITS</u>	<u>Third Quarter, 1994</u>		<u>Fourth Quarter, 1994</u>	
		<u>Dose</u>	<u>Percent of Limit</u>	<u>Dose</u>	<u>Percent of Limit</u>
1.2.3.1a,b	5 mrad gamma/qtr. 10 mrad gamma/yr.	3.64E-2 mrad	7.27E-1 3.74E-1*	1.20E-4 mrad	2.40E-3 3.75E-1*
		(July - December total gamma air dose: 3.65E-2 mrad) (January - December total gamma air dose: 3.75E-2 mrad)			
1.2.3.1a,b	10 mrad beta/qtr. 20 mrad beta/yr.	3.99E-2 mrad	3.99E-1 2.10E-1*	8.23E-4 mrad	8.23E-3 2.15E-1*
		(July-December total beta air dose: 4.07E-2 mrad) (January-December total beta air dose: 4.29E-2 mrad)			
1.2.4.1a,b	7.5 mrem organ/qtr. 15 mrem organ/yr.	1.14E-2 mrem	1.52E-1 1.19E-1*	3.31E-3 mrem	4.42E-2 1.42E-1*
		(July-December maximum exposed organ dose: 1.47E-2 mrem) (January-December maximum exposed organ dose: 2.12E-2 mrem)			

LIQUID LIMITS

1.1.3.1a,b	1.5 mrem/qtr. 3.0 mrem/yr.	6.81E-3 mrem	4.54E-1 4.12E-1*	4.10E-3 mrem	2.74E-1 5.49E-1*
		(July-December whole body dose: 1.09E-2 mrem) (January-December whole body dose: 1.65E-2 mrem)			
1.1.3.1a,b	5 mrem organ/qtr. 10 mrem organ/yr.	4.20E-2 mrem	8.41E-1 4.75E-1†	3.25E-2 mrem	6.49E-1‡ 5.08E-1†
		(July-December maximum exposed organ dose: 4.54E-2mrem)† (January-December maximum exposed organ dose: 5.08E-2mrem)†			

* Includes contribution from previous quarters.

‡ Maximum exposed organ for quarter 4 was the gastro-intestinal tract, lower large intestine (GI LLI).

† The thyroid was the maximum exposed organ for quarters 3-4, 1-3 and 1-4.

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F. Meteorology

The meteorology data for 1994 is summarized in Table 7 by quarter. The data are shown as joint frequency distributions of wind direction and speed by atmospheric stability class. Table 8 provides the same information for those hours during which batch releases occurred. There were no batch releases during the first quarter.

The wind direction and wind speed data used in the summary were acquired from the 10 meter level of the primary monitoring tower. Stability was determined by the primary differential temperature (61 to 10 meter).

The combined annual data recovery for wind direction, wind speed and stability was 96.2%. Primary variable recovery rates were as follows: wind direction (10 m) - 97.7%, wind speed (10 m) - 97.0%, and differential temperature (61 - 10 m) - 97.7%. The wind direction (61 m), wind speed (61 m), and differential temperature (40 - 10 m) recovery rates were 96.1%, 96.9% and 96.0%, respectively.

G. Offsite Dose Calculation Manual

The Virgil C. Summer Nuclear Station (VCSNS) Offsite Dose Calculation Manual (ODCM) was revised once during the affected six month period. This revision encompassed changes involving on-site oil incineration, environmental sampling sites, special consideration for Turbine Building Sump releases, and clarification of several areas of requirements. A detailing summary of ODCM, Revision 18 changes followed by a complete copy of the ODCM is provided in Attachment I.

H. ODCM Reportable Incident

This report is made in accordance with Section 1.2.2 of the ODCM for release of waste gas from a non-release tank during a scheduled waste gas release. On August 12, 1994, during the scheduled release of waste gas from release tank G, a valve was left open between the tank being added to (tank A) and the release tank. This caused both tanks to be released during the evolution. The release was monitored at all times and the radiation monitors did not alarm or terminate the release during the evolution. Subsequent dose calculations indicated a small contribution to the dose to the public from the release of the non-release tank. Gaseous activities and doses attributable to this event have been included in Tables 1 -3 of this report.

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Supplemental Information

1. Regulatory Limits:

a. Fission and Activation Gases:

The air dose to an individual due to noble gases released in gaseous effluents shall be limited to less than or equal to 5 mrad for gamma radiation and 10 mrad for beta radiation during any calendar quarter and 10 mrad for gamma radiation and 20 mrad for beta radiation during any calendar year (ODCM, Section 1.2.3.1).

b. Iodines, Particulates (half-lives > 8 days) and Tritium:

The dose to an individual from radioiodines, tritium and radioactive materials in particulate form with half-lives greater than 8 days in gaseous effluents shall be limited to less than or equal to 7.5 mrem to any organ during any calendar quarter and 15 mrem to any organ during any calendar year (ODCM, Section 1.2.4.1).

c. Liquid Effluents:

The dose or dose commitment to an individual from radioactive materials in liquid effluents released from the site shall be limited to less than or equal to 1.5 mrem to the total body and 5 mrem to any organ during any calendar quarter and 3 mrem to the total body and 10 mrem to any organ during any calendar year (ODCM, Section 1.1.3.1).

d. All Sources:

The annual dose equivalent shall not exceed 25 mrem to the whole body, 75 mrem to the thyroid and 25 mrem to any other organ (40 CFR 190).

2. Maximum Permissible Concentrations:

a. Fission and Activation Gases:

The dose rate in unrestricted areas due to radioactive materials released in gaseous effluents shall be limited to less than or equal to 500 mrem/year to the total body and less than or equal to 3000 mrem/year to the skin (ODCM, Section 1.2.2.1).

b. Iodines, Particulates (half-lives > 8 days) and Tritium:

The dose rate in unrestricted areas due to radioactive materials in effluents shall be limited to less than or equal to 1500 mrem/year to any organ (ODCM, Section 1.2.2.1).

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Supplemental Information

c. Liquid Effluents:

The concentration of radioactive materials released from the site shall be limited to the concentrations specified in 10 CFR 20, Appendix B, Table II, Column 2 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to $2\text{E-}4$ $\mu\text{Ci/ml}$ total activity (ODCM, Section 1.1.2.1).

3. Average Energy:

Not Applicable

4. Measurements and Approximations of Total Radioactivity:

- a. Fission and activation gases: Gamma spectrometry (HPGe)
- b. Iodines: Gamma spectrometry (HPGe)
- c. Particulates: Gamma spectrometry (HPGe), beta proportional counting, alpha proportional counting
- d. Tritium: Liquid scintillation
- e. Liquid effluents: Gamma spectrometry (HPGe), liquid scintillation (H-3), beta proportional counting, alpha proportional counting

5. Batch Releases:

a. Gaseous:

- 1. Number of batch releases: 6
- 2. Total time period for batch releases: $1.23\text{E}+3$ min.
- 3. Maximum time period for a batch release: $3.14\text{E}+2$ min.
- 4. Average time period for a batch release: $2.04\text{E}+2$ min.
- 5. Minimum time period for a batch release: $1.55\text{E}+2$ min.

b. Liquid:

- 1. Number of batch releases:
103 for third quarter, 1994
127 for fourth quarter, 1994

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2. Total time period for batch releases:
7.41E + 3 min. for third quarter, 1994
8.77E + 3 min. for fourth quarter, 1994
 3. Maximum time period for a batch release:
1.32E + 2 min. for third quarter, 1994
1.00E + 2 min. for fourth quarter, 1994
 4. Average time period for batch releases:
7.19E + 1 min. for third quarter, 1994
6.91E + 1 min. for fourth quarter, 1994
 5. Minimum time period for a batch release:
4.20E + 1 min. for third quarter, 1994
1.60E + 1 min. for fourth quarter, 1994
 6. Average stream flow during periods of release of effluent into a flowing stream:
5.84E + 6 gpm for third quarter, 1994
2.63E + 6 gpm for fourth quarter, 1994
6. Abnormal Releases:
- a. Gaseous:
 1. Number of releases: 0
 2. Total activity released: 0
 - b. Liquid:
 1. Number of releases: 0
 2. Total activity released: 0

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Table 2

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

		Third Quarter	Fourth Quarter	Est.Total Error, %
A. Fission & activation gases				
1. Total release	Ci	1.24E+2	2.87E+0	3.14E+1
2. Average release rate for period	μCi/sec	1.56E+1	3.62E-1	
3. Percent of ODCM limit	%	*	*	
B. Iodines				
1. Total iodine-131	Ci	1.02E-4	1.07E-4	2.27E+1
2. Average release rate for period	μCi/sec	1.28E-5	1.34E-5	
3. Percent of ODCM limit	%	**	**	
C. Particulates				
1. Particulates with half-lives > 8 days	Ci	1.76E-5	3.56E-4	3.18E+1
2. Average release rate for period	μCi/sec	2.22E-6	4.48E-5	
3. Percent of ODCM limit	%	**	**	
4. Gross alpha radioactivity	Ci	0	0	
D. Tritium				
1. Total release	Ci	1.80E+1	1.93E-1	1.86E+1
2. Average release rate for period	μCi/sec	2.26E+0	2.42E-2	
3. Percent of ODCM limit	%	**	**	

* Calculated as a percent of dose limits found in Supplemental Information, Section 1a. Third quarter values were 7.27E-1% and 3.74E-1% of the quarterly and cumulative annual gamma dose limits, respectively and 3.99E-1% and 2.10E-1% of the quarterly and cumulative annual beta dose limits, respectively. Fourth quarter values were 2.40E-3% and 3.75E-1% of the quarterly and cumulative annual gamma dose limits, respectively, and 8.23E-3% and 2.15E-1 % of the quarterly and cumulative annual beta dose limits, respectively.

** Calculated as a percent of dose limits found in Supplemental Information, Section 1b. The sum of these values for the third quarter was 1.52E-1% and 1.19E-1% of the quarterly and cumulative annual organ dose limits, respectively. The sum of these values for the fourth quarter was 4.42E-2% and 1.41E-1% of the quarterly and cumulative annual organ dose limits, respectively.

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Table 3

GASEOUS EFFLUENTS-GROUND-LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Third Quarter	Fourth Quarter	Third Quarter	Fourth Quarter
Fission gases					
Krypton-85	CI	0	0	5.11E-1	1.23E+0
Krypton-85m	CI	2.72E+0	0	5.20E-2	0
Krypton-87	CI	3.68E+0	0	1.42E-2	0
Krypton-88	CI	5.97E+0	0	6.90E-2	0
Xenon-133	CI	9.34E+1	1.63E+0	1.87E+0	4.89E-3
Xenon-135	CI	1.47E+1	0	4.34E-1	0
Xenon-135m	CI	2.90E-1	0	1.47E-3	0
Xenon-138	CI	0	0	0	0
Other: Xenon-131m	CI	0	0	7.22E-3	8.35E-3
Xenon-133m	CI	0	0	3.27E-2	0
Unidentified: None	CI	0	0		
Total for period	CI	1.21E+2	1.63E+0	2.99E+0	1.24E+0

2. Iodines and other halogens

Iodine-131	CI	1.02E-4	1.07E-4	0	0
Iodine-132	CI	2.41E-5	0	0	0
Iodine-133	CI	1.39E-5	0	0	0
Iodine-134	CI	0	0	0	0
Iodine-135	CI	0	0	0	0
Bromine-82	CI	1.93E-7	0	0	0
Total for period	CI	1.40E-4	1.07E-4	0	0

3. Particulates

Strontium-89	CI	0	0	0	0
Strontium-90	CI	0	0	0	0
Cesium-134	CI	0	0	0	0
Cesium-137	CI	0	0	0	0
Barium-Lanth.-140	CI	0	0	0	0
Others: Cr-51	CI	2.46E-6	4.73E-5	0	0
Mn-54	CI	5.81E-7	1.19E-5	0	0
Co-57	CI	3.25E-8	6.27E-7	0	0
Co-58	CI	8.28E-6	1.70E-4	0	0
Fe-59	CI	2.94E-7	5.66E-6	0	0
Co-60	CI	5.58E-6	1.13E-4	0	0
Rb-88	CI	1.56E-5	0	0	0
Nb-95	CI	4.20E-7	8.09E-6	0	0
Unidentified: None	CI	0	0	0	0
Total for period	CI	1.92E-5	3.56E-4	0	0

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Table 4

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Third Quarter	Fourth Quarter	Est.Total Error, %
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A. Fission & activation products

1. Total release (not including tritium, gases, alpha)	Ci	1.49E-1	1.51E-1	2.15E+1
2. Average diluted concentration during period	µCi/ml	3.40E-10	5.99E-10	
3. Percent of applicable limit	%	*	*	

B. Tritium

1. Total release	Ci	2.44E+2	4.24E+1	1.83E+1
2. Average diluted concentration during period	µCi/ml	5.55E-7	1.68E-7	
3. Percent of applicable limit	%	*	*	

C. Dissolved and entrained gases

1. Total release	Ci	8.01E-2	4.56E-4	3.87E+1
2. Average diluted concentration during period	µCi/ml	1.83E-10	1.80E-12	
3. Percent of applicable limit	%	*	*	

D. Gross alpha radioactivity

1. Total release	Ci	0	0	N/A
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E. Volume of waste released (prior to dilution)	liters	4.06E+7	5.65E+7	3.00E+0
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F. Volume of dilution water used during period	liters	4.39E+11	2.53E+11	4.30E+0
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* Calculated as a percent of dose limits found in Supplemental Information, Section 1c. The sum of these values for the third quarter was 4.54E-1% and 4.12E-1% of the respective quarterly and cumulative annual whole body dose limits and 8.41E-1% and 4.75E-1% of the respective quarterly and cumulative annual organ dose limits. The sum of these values for the fourth quarter was 2.74E-1% and 5.49E-1% of the respective quarterly and cumulative annual whole body dose limits and 6.49E-1% and 5.08E-1% of the respective quarterly and cumulative annual organ dose limits. Dose to the gastrointestinal tract / lower large intestine (GI LLI) was the most limiting organ dose for the fourth quarter of 1994. Dose to the thyroid was the most limiting for the third quarter, the six month period and for the year.

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Table 5
LIQUID EFFLUENTS

†Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Third Quarter	Fourth Quarter	Third Quarter	Fourth Quarter
Strontium-89	Cl	0	0	1.30E-5	2.29E-5
Strontium-90	Cl	0	0	0	5.09E-6
Cesium-134	Cl	3.26E-4	0	5.13E-4	3.61E-4
Cesium-137	Cl	3.14E-4	0	9.30E-4	5.92E-4
Iodine-131	Cl	1.41E-2	0	9.55E-4	9.78E-5
Cobalt-58	Cl	0	0	7.02E-3	5.08E-2
Cobalt-60	Cl	2.54E-5	0	5.95E-3	3.07E-2
Iron-59	Cl	0	0	7.15E-4	2.61E-3
Zinc-65	Cl	0	0	7.66E-5	1.11E-3
Manganese-54	Cl	0	0	9.16E-4	7.55E-3
Chromium-51	Cl	0	0	7.38E-3	3.08E-2
Zirconium-Niobium-95	Cl	0	0	1.14E-3	1.81E-2
Molybdenum-99	Cl	0	0	7.35E-6	0
Technetium-99m	Cl	0	0	5.77E-5	0
Barium-Lanth.-140	Cl	5.57E-5	0	1.92E-5	1.04E-5
Cerium-141	Cl	0	0	0	0
Other: Na-24	Cl	8.36E-3	0	0	0
Fe-55	Cl	0	0	4.52E-3	2.15E-3
Co-57	Cl	0	0	9.40E-6	2.45E-4
Rb-88	Cl	7.87E-5	0	0	0
Ru-103	Cl	0	0	2.66E-5	4.36E-5
Ag-110m	Cl	0	0	2.46E-4	6.83E-4
Sn-113	Cl	0	0	3.18E-5	8.91E-4
Sn-117m	Cl	0	0	3.13E-6	8.24E-6
Sb-122	Cl	0	0	8.47E-5	0
Sb-124	Cl	0	0	5.99E-4	4.52E-4
Sb-125	Cl	0	0	2.76E-3	4.17E-3
Sb-126	Cl	0	0	9.38E-6	0
Te-132	Cl	0	0	3.06E-5	0
I-132	Cl	1.80E-2	0	4.66E-5	0
I-133	Cl	2.21E-2	0	6.19E-6	0
I-134	Cl	1.34E-2	0	0	0
I-135	Cl	2.85E-2	0	0	0
Cs-136	Cl	4.16E-5	0	2.54E-5	0
Cs-138	Cl	9.51E-3	0	3.35E-5	0
Ce/Pr-144	Cl	0	0	0	3.40E-5
Unidentified: None	Cl	0	0	0	0
Total for Period (above)	Cl	1.15E-1	0	3.44E-2	1.51E-1
Xenon-133	Cl	2.89E-4	0	7.50E-2	4.51E-4
Xenon-135	Cl	3.42E-3	0	4.28E-5	0
Other: Ar-41	Cl	0	0	0	4.97E-6
Xe-131m	Cl	0	0	9.92E-4	0
Xe-133m	Cl	0	0	3.75E-4	0
Unidentified: None	Cl	0	0	0	0
Total entrained gases	Cl	3.71E-3	0	7.64E-2	4.56E-4

† Tritium not included. See Table 4 for tritium numbers.

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Table 6
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. Solid Waste Shipped Offsite for Burial or Disposal (Not irradiated fuel.)

1. Type of waste	Unit	6-month Period	Est. Total Error, %	1994 Total
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³ Ci	1.78E+1 2.70E+2	3.50E+1	3.54E+1 2.71E+2
b. Dry compressible waste, contaminated equip., etc.	m ³ Ci	1.83E+1 1.43E+1	3.50E+1	3.36E+1 1.50E+1
c. Irradiated components, control rods, etc.	m ³ Ci	0 0	N/A	0 0
d. Other (describe)	m ³ Ci	0 0	N/A	0 0

2. Estimate of major nuclide composition for 6 month period (by type of waste)*

a. Co-58	%	3.40E+1
Fe-55	%	2.10E+1
Ni-63	%	1.60E+1
Co-60	%	9.10E+0
Mn-54	%	6.10E+0
Cs-134	%	6.00E+0
Cs-137	%	5.80E+0
b. Fe-55	%	5.00E+1
Co-60	%	2.30E+1
Ni-63	%	1.00E+1
Cs-137	%	6.08E+0
Mn-54	%	3.48E+0
Cs-134	%	2.20E+0
c. None	%	N/A
d. None	%	N/A

* All nuclides with concentrations above 1.0% are listed in descending order by activity level.

3. Solid Waste Disposition (6 month period / 12 month period)

Number of Shipments	Mode of Transportation	Destination
15 † / 58 †	Truck	Barnwell, SC

†Note: 9 (for the 6 month period) and 51 (for 1994 total) are partial shipments of DAW from waste processor to Barnwell, SC.

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
None	N/A	N/A

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 1- 1 00:00 to 94- 3-31 23:00

Stability Class: A delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FIRST QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	1	0	0	0	1	11.35
SSW	0	0	4	0	0	0	4	11.27
SW	0	1	10	1	0	0	12	10.38
WSW	0	9	10	4	0	0	23	9.83
W	0	3	14	0	0	0	17	10.24
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	2	0	0	0	2	10.61
NNW	0	0	0	0	0	0	0	0.00
Total	0	13	41	5	0	0	59	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 30
 Hours of No Stability Class : 23
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 1- 1 00:00 to 94- 3-31 23:00

Stability Class: B delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours : Each Wind Direction and Speed

TABLE 7
FIRST QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	3	0	0	3	17.38
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	1	0	0	0	1	8.38
ENE	0	1	0	0	0	0	1	7.12
E	0	1	1	0	0	0	2	7.99
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	3	0	0	0	3	10.91
SSW	0	0	1	2	0	0	3	14.26
SW	0	3	5	0	0	0	8	8.42
WSW	0	6	8	3	0	0	17	9.83
W	1	6	7	1	0	0	15	9.11
WNW	0	3	2	4	0	0	9	10.73
NW	0	3	6	1	0	0	10	10.40
NNW	0	0	1	5	0	0	6	15.57
Total	1	23	35	19	0	0	78	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 30
 Hours of No Stability Class : 23
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 1- 1 00:00 to 94- 3-31 23:00

Stability Class: C delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FIRST QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	2	0	3	0	0	5	12.15
NNE	0	2	0	2	0	0	4	10.99
NE	1	0	0	0	0	0	1	2.89
ENE	0	2	0	0	0	0	2	6.76
E	0	1	0	0	0	0	1	7.55
ESE	0	3	1	0	0	0	4	7.51
SE	0	1	0	0	0	0	1	5.73
SSE	0	1	1	0	0	0	2	7.43
S	0	0	4	0	0	0	4	9.23
SSW	0	3	6	2	0	0	11	10.40
SW	0	6	2	3	0	0	11	8.76
WSW	1	4	4	3	0	0	12	9.36
W	0	1	3	5	0	0	9	12.63
WNW	0	2	4	1	0	0	7	9.23
NW	0	2	4	1	0	0	7	9.39
NNW	0	3	2	1	0	0	6	9.70
Total	2	33	31	21	0	0	87	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 30
 Hours of No Stability Class : 23
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 1- 1 00:00 to 94- 3-31 23:00

Stability Class: D delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FIRST QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	4	18	19	13	0	0	54	9.57
NNE	4	27	24	23	1	0	79	9.83
NE	7	35	67	30	1	0	140	9.96
ENE	2	30	54	29	0	0	115	10.44
E	1	27	19	4	0	0	51	8.35
ESE	3	16	6	0	0	0	25	7.00
SE	3	9	2	1	0	0	15	6.47
SSE	8	6	12	1	0	0	27	7.57
S	14	12	8	2	0	0	36	6.24
SSW	4	14	13	19	3	0	53	11.16
SW	6	44	17	3	0	0	70	7.20
WSW	8	38	14	19	0	0	79	8.48
W	6	37	28	6	0	0	77	7.96
WNW	9	16	10	1	0	0	36	6.57
NW	5	12	6	2	0	0	25	7.17
NNW	6	8	19	16	3	0	52	10.97
Total	90	349	318	169	8	0	934	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 19
 Hours of Missing Data for All : 30
 Hours of No Stability Class : 23
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 1- 1 00:00 to 94- 3-31 23:00

Stability Class: E delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FIRST QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	5	12	3	1	0	0	21	6.35
NNE	3	13	6	3	0	0	25	7.12
NE	4	11	2	1	0	0	18	5.78
ENE	4	13	7	1	0	0	25	6.84
E	3	20	7	0	0	0	30	6.15
ESE	4	16	7	0	0	0	27	6.16
SE	6	14	3	0	0	0	23	5.77
SSE	2	23	10	0	0	0	35	6.67
S	10	28	11	0	0	0	49	6.53
SSW	10	37	6	2	1	0	56	6.51
SW	17	38	9	2	0	0	66	6.10
WSW	9	42	10	2	0	0	63	6.35
W	10	39	8	0	0	0	57	5.80
WNW	16	14	3	0	0	0	33	4.90
NW	7	16	3	0	0	0	26	5.84
NNW	4	8	4	1	0	0	17	6.79
Total	114	344	99	13	1	0	571	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 3
 Hours of Missing Data for All : 30
 Hours of No Stability Class : 23
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 1- 1 00:00 to 94- 3-31 23:00

Stability Class: F delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FIRST QUATER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	7	2	0	0	0	0	9	3.59
NNE	3	3	0	0	0	0	6	4.98
NE	2	1	0	0	0	0	3	3.79
ENE	2	3	0	0	0	0	5	4.30
E	3	8	2	0	0	0	13	5.65
ESE	1	2	0	0	0	0	3	5.61
SE	3	7	0	0	0	0	10	4.95
SSE	3	16	3	0	0	0	22	6.20
S	2	28	1	0	0	0	31	5.99
SSW	7	18	3	0	0	0	28	5.36
SW	6	18	0	0	0	0	24	4.58
WSW	8	19	0	0	0	0	27	4.65
W	4	14	0	0	0	0	18	4.66
WNW	8	7	0	0	0	0	15	4.07
NW	3	4	0	0	0	0	7	4.19
NNW	3	1	0	0	0	0	4	2.80
Total	65	151	9	0	0	0	225	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 1
 Hours of Missing Data for All : 30
 Hours of No Stability Class : 23
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 1- 1 00:00 to 94- 3-31 23:00

Stability Class: G delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FIRST QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	3	0	0	0	0	0	3	2.53
NNE	5	1	0	0	0	0	6	3.12
NE	4	2	0	0	0	0	6	3.34
ENE	2	1	0	0	0	0	3	2.99
E	2	0	0	0	0	0	2	2.61
ESE	5	0	0	0	0	0	5	2.58
SE	3	3	0	0	0	0	6	4.68
SSE	9	13	0	0	0	0	22	4.52
S	13	9	0	0	0	0	22	4.10
SSW	5	2	0	0	0	0	7	3.13
SW	13	2	0	0	0	0	15	3.27
WSW	14	5	0	0	0	0	19	3.48
W	17	4	0	0	0	0	21	3.23
WNW	11	2	0	0	0	0	13	3.28
NW	4	1	0	0	0	0	5	3.00
NNW	5	0	0	0	0	0	5	3.37
Total	115	45	0	0	0	0	160	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data : 0

Hours of Missing Data for All : 30

Hours of No Stability Class : 23

Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 1- 1 00:00 to 94- 3-31 23:00

Stability Class:ALL delta T/ delta z 51->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FIRST QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	19	36	22	20	0	0	97	8.39
NNE	15	47	30	28	1	0	121	8.69
NE	18	50	72	31	1	0	172	9.11
ENE	10	51	62	30	0	0	153	9.41
E	9	57	29	4	0	0	99	7.20
ESE	13	37	14	0	0	0	64	6.27
SE	15	34	6	1	0	0	56	5.76
SSE	22	59	26	1	0	0	108	6.38
S	40	77	28	2	0	0	147	6.15
SSW	26	74	33	25	4	0	162	8.21
SW	42	112	43	9	0	0	206	6.57
WSW	40	125	46	31	0	0	242	7.34
W	38	105	61	12	0	0	216	7.12
WNW	44	44	19	6	0	0	113	5.87
NW	20	39	21	4	0	0	84	6.85
NNW	18	20	26	23	3	0	90	9.62
Total	389	967	538	227	9	0	2130	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data for All : 30
 Hours of No Stability Class : 23
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: A delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	3	5	0	0	0	0	8	3.97
NE	0	3	0	0	0	0	3	4.67
ENE	0	2	2	0	0	0	4	8.15
E	0	0	1	0	0	0	1	8.77
ESE	0	1	1	0	0	0	2	7.48
SE	0	2	0	0	0	0	2	5.88
SSE	0	3	3	0	0	0	6	7.67
S	0	9	2	0	0	0	11	7.07
SSW	0	14	12	1	0	0	27	8.38
SW	0	28	28	1	0	0	57	8.19
WSW	0	39	27	1	0	0	67	7.87
W	0	10	7	0	0	0	17	7.57
WNW	0	3	2	0	0	0	5	6.99
NW	0	2	0	0	0	0	2	4.58
NNW	1	1	0	0	0	0	2	4.32
Total	4	122	85	3	0	0	214	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 101
 Hours of No Stability Class : 90
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: B delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	1	1	0	0	0	0	2	4.92
NNE	2	5	0	0	0	0	7	4.87
NE	1	4	1	0	0	0	6	5.69
ENE	0	4	1	0	0	0	5	6.31
E	0	1	1	0	0	0	2	8.87
ESE	0	2	0	0	0	0	2	6.44
SE	0	2	0	0	0	0	2	6.92
SSE	1	0	2	0	0	0	3	7.91
S	0	6	2	0	0	0	8	6.49
SSW	0	9	7	4	0	0	20	9.15
SW	2	7	5	2	0	0	16	8.06
WSW	0	8	6	0	0	0	14	7.60
W	1	4	3	0	0	0	8	7.03
WNW	2	4	1	0	0	0	7	5.49
NW	2	1	1	0	0	0	4	5.82
NNW	3	0	1	0	0	0	4	5.67
Total	15	58	31	6	0	0	110	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 2
 Hours of Missing Data for All : 101
 Hours of No Stability Class : 90
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: C delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	1	4	1	1	0	0	7	6.42
NNE	1	6	3	1	0	0	11	7.78
NE	1	13	8	3	0	0	25	8.22
ENE	2	6	8	3	0	0	19	8.67
E	0	5	2	0	0	0	7	7.67
ESE	1	1	4	0	0	0	6	7.68
SE	0	1	2	0	0	0	3	7.56
SSE	1	2	3	0	0	0	6	6.62
S	0	6	7	1	0	0	14	8.93
SSW	1	7	6	1	0	0	15	7.84
SW	3	7	7	1	0	0	18	7.75
WSW	4	7	4	0	0	0	15	5.99
W	1	3	1	0	0	0	5	5.90
WNW	0	2	0	0	0	0	2	5.84
NW	0	1	0	0	0	0	1	4.78
NNW	0	5	0	0	0	0	5	5.96
Total	16	76	56	11	0	0	159	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 1
 Hours of Missing Data for All : 101
 Hours of No Stability Class : 90
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: D $\Delta T / \Delta z$ 61- \rightarrow 10 m ΔT

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	9	18	16	22	1	0	66	9.69
NNE	4	9	32	31	0	0	76	11.69
NE	5	19	68	59	2	0	153	11.78
ENE	2	14	34	10	0	0	60	10.05
E	3	29	6	0	0	0	38	6.64
ESE	1	18	8	0	0	0	27	7.39
SE	2	9	1	0	0	0	12	6.06
SSE	4	18	11	0	0	0	33	7.05
S	2	25	21	6	0	0	54	8.56
SSW	4	29	22	4	0	0	59	8.06
SW	8	33	26	2	0	0	69	7.52
WSW	12	22	11	1	0	0	46	6.22
W	8	20	5	0	0	0	33	5.82
WNW	5	12	2	0	0	0	19	5.19
NW	6	5	2	0	0	0	13	4.88
NNW	5	7	11	0	1	0	24	7.97
Total	80	287	276	135	4	0	782	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 13
 Hours of Missing Data for All : 101
 Hours of No Stability Class : 90
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: E delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7

SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	4	5	1	1	0	0	11	5.86
NNE	2	8	3	1	0	0	14	6.90
NE	4	3	1	0	0	0	8	5.57
ENE	3	0	1	0	0	0	4	4.33
E	1	8	0	0	0	0	9	5.59
ESE	2	9	6	0	0	0	17	6.77
SE	2	18	4	0	0	0	24	6.27
SSE	8	41	5	0	0	0	54	5.81
S	9	44	21	1	0	0	75	6.43
SSW	14	58	12	1	0	0	85	6.03
SW	17	57	10	0	0	0	84	5.47
WSW	12	25	4	0	0	0	41	5.22
W	14	15	3	0	0	0	32	4.79
WNW	9	4	1	0	0	0	14	3.70
NW	6	8	1	0	0	0	15	4.84
NNW	3	11	3	1	0	0	18	6.67
Total	110	314	76	5	0	0	505	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data : 1

Hours of Missing Data for All : 101

Hours of No Stability Class : 90

Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: F delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	1	3	0	0	0	0	4	4.77
NNE	0	2	1	0	0	0	3	6.90
NE	0	0	0	0	0	0	0	0.00
ENE	1	0	0	0	0	0	1	3.50
E	0	1	0	0	0	0	1	7.30
ESE	1	1	1	0	0	0	3	5.41
SE	3	5	2	0	0	0	10	5.43
SSE	4	25	1	0	0	0	30	5.66
S	7	28	3	0	0	0	38	5.36
SSW	8	17	0	0	0	0	25	4.59
SW	5	13	0	0	0	0	18	4.37
WSW	14	6	0	0	0	0	20	3.21
W	12	4	0	0	0	0	16	3.39
WNW	7	9	0	0	0	0	16	4.03
NW	5	6	0	0	0	0	11	4.80
NNW	1	1	0	0	0	0	2	3.16
Total	69	121	8	0	0	0	198	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 101
 Hours of No Stability Class : 90
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: G delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	1	0	0	0	0	0	1	2.50
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	3	3	0	0	0	0	6	4.53
SSE	3	5	0	0	0	0	8	4.24
S	6	10	0	0	0	0	16	4.39
SSW	7	5	0	0	0	0	12	3.86
SW	10	7	0	0	0	0	17	3.96
WSW	13	8	0	0	0	0	21	3.76
W	12	4	0	0	0	0	16	3.37
WNW	7	2	0	0	0	0	9	3.29
NW	1	2	0	0	0	0	3	4.56
NNW	0	0	0	0	0	0	0	0.00
Total	63	46	0	0	0	0	109	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 101
 Hours of No Stability Class : 90
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class:ALL delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	17	31	18	24	1	0	91	8.58
NNE	12	35	39	33	0	0	119	9.72
NE	11	42	78	64	2	0	197	10.83
ENE	8	26	46	13	0	0	93	9.17
E	4	44	10	0	0	0	58	6.73
ESE	5	32	20	0	0	0	57	7.10
SE	10	40	9	0	0	0	59	5.98
SSE	21	96	25	0	0	0	142	6.14
S	24	128	57	8	0	0	217	6.83
SSW	34	139	60	11	0	0	244	6.91
SW	45	152	76	6	0	0	279	6.67
WSW	55	115	52	2	0	0	224	6.10
W	48	60	19	0	0	0	127	5.26
WNW	30	36	6	0	0	0	72	4.58
NW	20	25	4	0	0	0	49	4.89
NNW	13	25	15	1	1	0	55	6.88
Total	357	1026	534	162	4	0	2083	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data for All : 101

Hours of No Stability Class : 90

Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: A delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	1	0	2	0	0	3	11.76
NE	3	0	2	1	0	0	6	8.39
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	1	0	0	0	0	1	6.60
SSE	0	2	2	0	0	0	4	8.51
S	0	2	1	1	0	0	4	9.10
SSW	0	9	3	0	0	0	12	6.72
SW	1	22	19	0	0	0	42	7.55
WSW	3	45	22	0	0	0	70	7.11
W	0	6	6	0	0	0	12	7.60
WNW	1	3	0	0	0	0	4	5.79
NW	2	1	0	0	0	0	3	3.74
NNW	2	0	0	0	0	0	2	3.66
Total	12	92	55	4	0	0	163	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 58
 Hours of No Stability Class : 20
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: B delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	1	1	0	0	0	0	2	3.99
NNE	1	3	4	1	0	0	9	9.03
NE	1	1	3	4	0	0	9	11.24
ENE	0	1	0	0	0	0	1	5.71
E	0	3	0	0	0	0	3	5.04
ESE	0	5	2	0	0	0	7	6.57
SE	0	2	0	0	0	0	2	6.55
SSE	0	0	1	0	0	0	-	8.73
S	0	2	4	0	0	0	6	8.23
SSW	1	13	6	0	0	0	20	7.13
SW	1	19	3	0	0	0	23	6.15
WSW	8	21	4	0	0	0	33	5.79
W	2	5	2	0	0	0	9	6.53
WNW	1	1	0	0	0	0	2	5.16
NW	1	2	0	0	0	0	3	4.48
NNW	0	0	0	0	0	0	0	0.00
Total	17	79	29	5	0	0	130	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 3
 Hours of Missing Data for All : 58
 Hours of No Stability Class : 20
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: C delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	6	8	0	0	0	0	14	4.23
NNE	9	8	5	1	0	0	23	6.38
NE	3	6	1	5	0	0	15	8.47
ENE	1	8	2	0	0	0	11	6.54
E	0	3	0	0	0	0	3	5.14
ESE	1	1	0	0	0	0	2	4.65
SE	1	7	0	0	0	0	8	5.74
SSE	0	4	2	0	0	0	6	7.78
S	1	10	4	0	0	0	15	7.09
SSW	1	21	1	0	0	0	23	5.99
SW	2	14	2	0	0	0	18	6.16
WSW	8	10	1	0	0	0	19	4.96
W	2	2	0	0	0	0	4	5.00
WNW	3	1	0	0	0	0	4	3.98
NW	0	1	0	0	0	0	1	6.49
NNW	3	3	1	0	0	0	7	5.39
Total	41	107	19	6	0	0	173	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 4
 Hours of Missing Data for All : 58
 Hours of No Stability Class : 20
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: D $\Delta T / \Delta z$ 61->10 m ΔT

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	12	19	12	2	0	0	45	6.72
NNE	16	25	22	10	0	0	73	7.61
NE	4	27	44	27	0	0	102	9.93
ENE	6	31	47	1	0	0	85	8.42
E	2	22	8	0	0	0	32	6.73
ESE	3	24	3	2	0	0	32	6.60
SE	4	31	5	1	0	0	41	6.41
SSE	5	39	4	4	0	0	52	6.64
S	10	40	17	1	0	0	68	6.79
SSW	14	58	20	0	0	0	92	6.27
SW	24	54	7	0	0	0	85	5.44
WSW	17	30	3	0	0	0	50	4.92
W	12	5	0	0	0	0	17	3.59
WNW	5	2	0	0	0	0	7	3.27
NW	6	4	3	0	0	0	13	5.16
NNW	3	7	5	0	0	0	15	6.67
Total	143	418	200	48	0	0	809	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 18
 Hours of Missing Data for All : 58
 Hours of No Stability Class : 20
 Total hours of observation : 2208

200

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: E delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	1	1	0	0	0	0	2	4.46
NNE	3	1	1	3	0	0	8	9.96
NE	2	2	3	0	0	0	7	6.76
ENE	2	4	2	0	0	0	8	5.87
E	2	13	1	0	0	0	16	5.88
ESE	7	17	2	0	0	0	26	5.11
SE	9	48	0	0	0	0	57	5.00
SSE	27	56	2	0	0	0	85	4.87
S	22	40	4	0	0	0	66	4.95
SSW	24	75	0	0	0	0	99	5.05
SW	39	47	0	0	0	0	86	4.14
WSW	37	23	1	0	0	0	61	3.74
W	20	7	0	0	0	0	27	3.33
WNW	13	1	0	0	0	0	14	2.97
NW	3	4	0	0	0	0	7	4.12
NNW	0	1	1	0	0	0	2	8.18
Total	211	340	17	3	0	0	571	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 8
 Hours of Missing Data for All : 58
 Hours of No Stability Class : 20
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: F delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7

THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	1	0	0	0	0	1	5.75
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	2	0	0	0	0	2	6.84
ESE	3	2	0	0	0	0	5	3.86
SE	5	12	0	0	0	0	17	4.95
SSE	14	26	2	0	0	0	42	4.63
S	17	21	0	0	0	0	38	4.07
SSW	23	11	0	0	0	0	34	3.58
SW	24	14	0	0	0	0	38	3.55
WSW	19	6	0	0	0	0	25	3.37
W	15	2	0	0	0	0	17	2.98
WNW	4	0	0	0	0	0	4	2.60
NW	3	0	0	0	0	0	3	2.42
NNW	2	0	0	0	0	0	2	3.19
Total	129	97	2	0	0	0	228	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 12
 Hours of Missing Data for All : 58
 Hours of No Stability Class : 20
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: G $\Delta T / \Delta z$ 61-10 m ΔT

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
HIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	1	0	0	0	0	0	1	1.96
NNE	0	1	0	0	0	0	1	4.79
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	1	0	0	0	0	0	1	2.19
SE	0	0	0	0	0	0	0	0.00
SSE	0	4	0	0	0	0	4	5.53
S	8	3	0	0	0	0	11	3.56
SSW	5	2	0	0	0	0	7	3.72
SW	7	1	0	0	0	0	8	3.68
WSW	15	0	0	0	0	0	15	2.97
W	10	1	0	0	0	0	11	3.22
WNW	0	0	0	0	0	0	0	0.00
NW	1	0	0	0	0	0	1	2.63
NNW	0	0	0	0	0	0	0	0.00
Total	48	12	0	0	0	0	60	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 9
 Hours of Missing Data for All : 58
 Hours of No Stability Class : 20
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class:ALL delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	21	29	13	2	0	0	65	6.01
NNE	30	40	32	17	0	0	119	7.67
NE	13	39	55	38	0	0	145	9.59
ENE	9	44	51	1	0	0	105	8.01
E	4	43	10	1	0	0	58	6.50
ESE	15	50	7	2	0	0	74	5.78
SE	19	103	5	1	0	0	128	5.55
SSE	46	131	13	4	0	0	194	5.49
S	58	118	30	2	0	0	208	5.65
SSW	68	189	30	0	0	0	287	5.52
SW	98	172	31	0	0	0	301	5.18
WSW	108	136	31	0	0	0	275	5.07
W	61	28	8	0	0	0	97	4.20
WNW	27	8	0	0	0	0	35	3.55
NW	16	12	3	0	0	0	31	4.42
NNW	10	11	7	0	0	0	28	6.00
Total	603	1153	326	68	0	0	2150	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data for All : 58
 Hours of No Stability Class : 20
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: A delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	2	0	0	2	14.28
NE	0	0	0	1	0	0	1	16.99
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	1	0	0	0	0	1	4.90
WSW	0	3	1	0	0	0	4	6.12
W	0	0	0	1	0	0	1	14.64
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	4	1	4	0	0	9	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data : 0

Hours of Missing Data for All : 73

Hours of No Stability Class : 67

Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: B delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	1	0	0	1	15.18
NNE	0	2	0	2	0	0	4	10.57
NE	0	0	0	2	1	0	3	17.57
ENE	0	1	0	0	0	0	1	7.44
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	2	0	0	0	2	8.50
S	0	0	2	0	0	0	2	8.36
SSW	0	3	1	0	0	0	4	7.21
SW	1	3	3	0	0	0	7	6.86
WSW	1	2	3	0	0	0	6	7.36
W	0	4	0	3	0	0	7	10.15
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	2	3	0	0	0	0	5	4.65
Total	4	18	11	8	1	0	42	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 67
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: C delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	1	1	1	1	3	0	7	14.32
NNE	2	2	6	6	1	0	17	11.57
NE	1	2	3	14	2	0	22	14.08
ENE	1	0	8	1	1	0	11	10.62
E	0	1	0	0	0	0	1	7.34
ESE	0	0	0	0	0	0	0	0.00
SE	0	1	1	0	0	0	2	8.12
SSE	0	0	1	0	0	0	1	8.29
S	0	5	0	0	0	0	5	7.16
SSW	0	3	2	0	0	0	5	7.33
SW	0	6	0	0	0	0	6	5.80
WSW	0	5	0	1	0	0	6	7.65
W	1	4	2	0	0	0	7	7.61
WNW	0	4	1	0	0	0	5	5.98
NW	1	0	2	0	0	0	3	7.03
NNW	0	2	3	2	0	0	7	10.36
Total	7	36	30	25	7	0	105	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 67
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: D delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	15	16	30	25	11	5	102	12.01
NNE	9	28	118	86	28	0	269	12.82
NE	12	51	146	87	8	2	306	11.36
ENE	3	23	52	20	5	0	103	10.57
E	3	21	12	0	0	0	36	7.56
ESE	3	7	2	0	0	0	12	5.63
SE	2	2	5	0	0	0	9	6.65
SSE	5	5	3	0	0	0	13	6.21
S	3	17	5	0	0	0	25	6.15
SSW	4	13	2	0	0	0	19	5.81
SW	6	20	8	0	0	0	34	6.44
WSW	6	17	3	1	0	0	27	5.91
W	14	6	2	0	0	0	22	4.14
WNW	9	9	5	0	0	0	23	5.04
NW	3	16	6	2	0	0	27	6.71
NNW	8	18	15	6	5	3	55	10.37
Total	105	269	414	227	57	10	1082	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 27
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 67
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: E delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	8	12	8	5	0	0	33	7.22
NNE	2	13	7	2	0	0	24	7.16
NE	3	24	11	4	0	0	42	7.89
ENE	5	22	8	0	0	0	35	6.26
E	6	18	0	0	0	0	24	5.55
ESE	2	5	0	0	0	0	7	5.03
SE	1	5	0	0	0	0	6	5.05
SSE	12	17	1	0	0	0	30	4.65
S	6	9	6	0	0	0	21	5.99
SSW	5	18	0	0	0	0	23	4.47
SW	18	36	0	0	0	0	54	4.70
WSW	13	14	0	0	0	0	27	4.00
W	9	16	0	0	0	0	25	4.59
WNW	7	10	3	0	0	0	20	5.11
NW	9	21	7	0	0	0	37	5.78
NNW	11	7	10	3	0	0	31	6.78
Total	117	247	61	14	0	0	439	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 9
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 67
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: F delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	4	2	0	0	0	0	6	3.65
NNE	4	8	1	0	0	0	13	5.10
NE	2	6	0	0	0	0	8	4.08
ENE	3	2	0	0	0	0	5	4.22
E	3	5	0	0	0	0	8	4.77
ESE	3	2	0	0	0	0	5	3.44
SE	2	1	0	0	0	0	3	3.48
SSE	5	18	0	0	0	0	23	4.90
S	4	12	1	0	0	0	17	4.98
SSW	8	7	0	0	0	0	15	4.30
SW	14	8	0	0	0	0	22	3.81
WSW	8	5	0	0	0	0	13	3.68
W	10	3	0	0	0	0	13	3.31
WNW	5	3	0	0	0	0	8	3.49
NW	8	9	0	0	0	0	17	4.22
NNW	1	1	0	0	0	0	2	5.11
Total	84	92	2	0	0	0	178	

Hours of Calm : 1
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 67
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: G delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7
FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	3	1	0	0	0	0	4	3.50
NNE	2	0	0	0	0	0	2	2.71
NE	4	0	0	0	0	0	4	2.23
ENE	2	0	0	0	0	0	2	2.59
E	0	0	0	0	0	0	0	0.00
ESE	1	0	0	0	0	0	1	1.99
SE	0	1	0	0	0	0	1	4.50
SSE	9	10	0	0	0	0	19	4.22
S	9	4	0	0	0	0	13	3.78
SSW	15	0	0	0	0	0	15	2.98
SW	37	7	0	0	0	0	44	3.16
WSW	42	6	0	0	0	0	48	3.22
W	55	4	0	0	0	0	59	3.07
WNW	21	0	0	0	0	0	21	2.73
NW	10	1	0	0	0	0	11	2.88
NNW	4	1	0	0	0	0	5	2.85
Total	214	35	0	0	0	0	249	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data : 0

Hours of Missing Data for All : 73

Hours of No Stability Class : 67

Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-01-31

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class:ALL delta T/ delta z f1->10 m Delta T

Wind Sensor Height : 10 meter

Hours at Each Wind Direction and Speed

TABLE 7

FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	31	35	39	32	14	5	156	10.44
NNE	21	53	132	98	29	0	333	11.91
NE	22	83	160	108	11	2	386	10.96
ENE	14	48	68	21	6	0	157	9.28
E	12	45	12	0	0	0	69	6.53
ESE	9	16	3	0	0	0	28	5.15
SE	5	11	9	1	0	0	26	6.74
SSE	32	52	7	0	0	0	91	4.95
S	24	48	14	0	0	0	86	5.57
SSW	35	44	5	0	0	0	84	4.74
SW	77	81	11	0	0	0	169	4.65
WSW	70	53	7	2	0	0	132	4.48
W	90	37	4	4	0	0	135	4.23
WNW	45	26	9	0	0	0	80	4.27
NW	33	47	15	2	0	0	97	5.40
NNW	26	32	28	11	5	3	105	8.58
Total	546	711	523	279	65	10	2134	

Hours of Calm : 1
 Hours of Varying Wind Direction : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 67
 Total hours of observation : 2208

TABLE 8
FIRST QUARTER, 1994

There were no batch releases during the First Quarter 1994.

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station JNIT 1

TABLE 8
SECOND QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: A delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	1	0	0	0	0	1	4.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	2	0	0	0	2	9.21
SW	0	0	1	0	0	0	1	9.27
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	1	3	0	0	0	4	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data : 0

Hours of Missing Data for All : 0

Hours of No Stability Class : 0

Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: B delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8

SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	1	0	0	0	0	0	1	3.75
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	1	0	0	0	0	0	1	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
SECOND QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: C delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	1	0	0	0	0	1	4.00
Total	0	1	0	0	0	0	1	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
SECOND QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: D delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	1	0	0	0	0	1	4.21
NNE	0	0	0	0	0	0	0	0.00
NE	0	1	0	0	0	0	1	7.75
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	1	0	0	0	0	1	5.32
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	1	1	0	0	0	0	2	3.75
Total	1	4	0	0	0	0	5	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: E delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	1	0	0	0	0	1	5.25
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	1	0	0	0	0	0	1	2.75
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	1	1	0	0	0	0	2	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
SECOND QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: F delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	1	0	0	0	0	0	1	3.50
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	1	0	0	0	0	0	1	3.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	2	0	0	0	0	0	2	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class: G delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8

SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94- 4- 1 00:00 to 94- 6-30 23:00

Stability Class:ALL delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8
SECOND QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	1	0	0	0	0	1	4.21
NNE	0	2	0	0	0	0	2	4.63
NE	0	1	0	0	0	0	1	7.75
ENE	1	0	0	0	0	0	1	3.50
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	1	0	0	0	0	0	1	3.75
S	0	0	0	0	0	0	0	0.00
SSW	0	0	2	0	0	0	2	9.21
SW	0	0	1	0	0	0	1	9.27
WSW	1	1	0	0	0	0	2	4.16
W	1	0	0	0	0	0	1	2.75
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	1	2	0	0	0	0	3	3.83
Total	5	7	3	0	0	0	15	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data for All : 0

Hours of No Stability Class : 0

Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
THIRD QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: A delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	1	0	0	0	0	1	6.63
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	1	0	0	0	0	1	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 12

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
THIRD QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: B delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 12

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: C delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	1	0	0	0	0	1	5.37
SE	0	2	0	0	0	0	2	6.92
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	3	0	0	0	0	3	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 12

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
THIRD QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: D $\Delta T / \Delta z$ 61->10 m ΔT

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	1	0	0	0	0	1	4.84
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	2	1	0	0	0	3	6.56
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	3	1	0	0	0	4	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 12

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: E delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	4	0	0	0	0	4	6.72
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	4	0	0	0	0	4	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 12

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
THIRD QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: F delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 12

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
THIRD QUARTER 1994

Report Date : 95-02-01

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class: G $\Delta T / \Delta z$ 61->10 m ΔT

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data : 0

Hours of Missing Data for All : 0

Hours of No Stability Class : 0

Total hours of observation : 12

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94- 7- 1 00:00 to 94- 9-30 23:00

Stability Class:ALL delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8
THIRD QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	1	0	0	0	0	1	4.84
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	1	0	0	0	0	1	5.37
SE	0	2	0	0	0	0	2	6.92
SSE	0	7	1	0	0	0	8	6.65
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	11	1	0	0	0	12	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data for All : 0

Hours of No Stability Class : 0

Total hours of observation : 12

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
FOURTH QUARTER 1994

Report Date : 95-02-01

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: A delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
FOURTH QUARTER 1994

Report Date : 95-02-01

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: B delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: C delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8
FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	
Hours of Calm :								
Hours of Varying Wind Direction :								
Hours of Missing Data :								
Hours of Missing Data for All :								
Hours of No Stability Class :								
Total hours of observation :								

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: D delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter

+++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8

FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	3	0	0	4	0	7	15.53
NE	0	0	1	3	0	0	4	13.46
ENE	0	0	1	0	0	0	1	10.72
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	3	2	3	4	0	12	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 95-02-01

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: E delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

TABLE 8

FOURTH QUARTER 1994

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	1	0	0	0	1	8.22
NNE	0	0	0	2	0	0	2	13.95
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	1	2	0	0	3	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
FOURTH QUARTER 1994

Report Date : 95-02-01

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: F delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
FOURTH QUARTER 1994

Report Date : 95-02-01

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class: G delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	0	0	0	0	0	0.00
NNE	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	0	0	0	0	0	0	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data : 0

Hours of Missing Data for All : 0

Hours of No Stability Class : 0

Total hours of observation : 15

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

TABLE 8
FORUTH QUARTER 1994

Report Date : 95-02-01

Data Period : 94-10- 1 00:00 to 94-12-31 23:00

Stability Class:ALL delta T/ delta z 61->10 m Delta T

Wind Sensor Height : 10 meter +++ Batch Release Times Only +++

Hours at Each Wind Direction and Speed

Wind Direction	Wind Speed (miles/hour)						Total'	Mean Speed
	0.75- <4	4- <8	8- <13	13- <19	19- 24	>24		
N	0	0	1	0	0	0	1	8.22
NNE	0	3	0	2	4	0	9	15.18
NE	0	0	1	3	0	0	4	13.46
ENE	0	0	1	0	0	0	1	10.72
E	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	3	3	5	4	0	15	

Hours of Calm : 0

Hours of Varying Wind Direction : 0

Hours of Missing Data for All : 0

Hours of No Stability Class : 0

Total hours of observation : 15