

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

FOR THE OPERATING PERIOD

January 1, 1995 - December 31, 1995

April 1996



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

Prepared by:

J.A. Orr,
Staff Health Physicist

Approved by:

L.A. Blue, Manager
Health Physics and
Radwaste Services

Reviewed by:

G.M. Gowdy
Staff Health Physicist

9604300063 960424
PDR ADOCK 05000395
R PDR

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

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 Sections 6.9.1.8 and 6.14.2 of Technical Specifications, Section 1.6.2 of the Offsite Dose Calculation Manual (ODCM), 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 1995 is presented in Section F and Tables 7 and 8. Changes made to the Offsite Dose Calculation Manual (ODCM) during the 12 month period are summarized in Section G and copies of the ODCM are presented in Attachment I and II. Section H gives a summary of oil incineration during the year.

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.

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

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 involved seven (7) waste gas decay tank (WGDT) releases, 179.22 days of 36-inch Reactor Building purge releases and a continuous 12-month main plant vent release. Gaseous releases from 19 hours of oil incineration were also included. Doses are summarized in Table 1. The total activities released are presented in Tables 2 and 3. The highest quarterly air doses to the maximum exposed individual due to noble gases were $1.88\text{E-}3$ and $7.41\text{E-}4$ mrad for gamma and beta, respectively during the second quarter. The maximum quarterly organ dose attributed to the releases was $9.81\text{E-}4$ mrem for the second quarter. Cumulative annual doses were $2.13\text{E-}3$ mrad, $1.30\text{E-}3$ mrad and $9.87\text{E-}4$ 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 166 Waste Monitor Tank batch releases, 26.44 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 highest quarterly total body dose to the maximally exposed individual due to the release of radioactive liquid was $1.43\text{E-}3$ mrem during the second quarter. The highest organ dose was $9.83\text{E-}3$ mrem to the gastro-intestinal tract / lower large intestine (GI-LLI) for the first quarter. Cumulative annual doses for the hypothetical maximally exposed individual were $5.16\text{E-}3$ mrem and $1.46\text{E-}2$ mrem for the total body and gastro-intestinal tract/lower large intestine (maximum annual organ), respectively. The GI-LLI was the maximum exposed organ for all four quarters of 1995.

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 1995 monthly dose rates did not differ significantly from the pre-operational or 1994 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 12 month period were calculated to be $1.62\text{E-}4$ and $9.88\text{E-}5$ mrad for gamma and beta, respectively.

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

JANUARY - DECEMBER 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

Table 1
GASEOUS AND LIQUID DOSES

ODCM Section	GASEOUS LIMITS	FIRST QUARTER		SECOND QUARTER		THIRD QUARTER		FOURTH QUARTER		TOTAL ANNUAL DOSE
		DOSE	Percent of Limit	DOSE	Percent of Limit	DOSE	Percent of Limit	DOSE	Percent of Limit	
1.2.3.1.a,b	5 mrad gamma / qtr. 10 mrad gamma / yr.	2.46E-04 mrad	4.92E-03 2.46E-03	1.88E-03 mrad	3.77E-02 2.13E-02*	3.02E-07 mrad	6.05E-06 2.13E-02*	2.73E-07 mrad	5.47E-06 2.13E-02*	2.13E-03
1.2.3.1.a,b	10 mrad beta / qtr. 20 mrad beta / yr.	4.94E-04 mrad	4.94E-03 2.47E-03	7.41E-04 mrad	7.41E-03 6.17E-03*	3.43E-05 mrad	3.43E-04 6.35E-03*	3.00E-05 mrad	3.00E-04 6.49E-03*	1.30E-03
1.2.4.1.a,b	7.5 mrem organ/qtr 15 mrem organ/yr.	C	0 0	9.81E-04 mrem	1.31E-02 6.54E-03	5.56E-06 mrem	7.42E-05 6.57E-03*	2.18E-07 mrad	2.91E-06 6.58E-03*	9.87E-04
	LIQUID LIMITS									
1.1.3.1a,b	1.5 mrem / qtr. 3.0 mrem / yr.	1.31E-03 mrem	8.72E-02 4.36E-02	1.43E-03 mrem	9.56E-02 9.13E-02*	1.11E-03 mrem	7.42E-02 1.28E-01*	1.31E-03 mrem	8.74E-02 1.72E-01*	5.16E-03
1.1.3.1a,b	5 mrem organ/qtr 10 mrem organ/yr.	9.83E-03 mrem	1.97E-01 9.83E-02	1.92E-03 mrem	3.85E-02 1.18E-01*	1.46E-03 mrem	2.92E-02 1.32E-01*	1.43E-03 mrem	2.86E-02 1.46E-01*	1.46E-02

* Includes contribution from previous quarters

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

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.

F. Meteorology

The meteorology data for 1995 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.

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 94.5%. Primary variable recovery rates were as follows: wind direction (10 m) - 98.5%, wind speed (10 m) - 97.7%, and differential temperature (61 - 10 m) - 98.4%.

G. Offsite Dose Calculation Manual

The Virgil C. Summer Nuclear Station (VCSNS) Offsite Dose Calculation Manual (ODCM) was revised twice during the affected 12 month period.

Revision 19 changed the reporting frequency of the radioactive effluent release report from semiannual to annual in response to revision of 10CFR50.36 (a). The ODCM revision is being made consistent with the corresponding Technical Specification change (Amendment 117).

ODCM revision 19 also includes specific offsite dose and dose rate limits for control of waste oil incineration. The limits specified in this revision are the same as those stated in the Application for Approval to Incinerate Oil Contaminated with Very Low Levels of Licensed Radioactive Material (Oil incineration Application) submitted to the Bureau of Radiological Health, South Carolina Department of Health and Environmental Control (SCDHEC). These limits restrict the radioactive gaseous effluent discharge during oil incineration to a small fraction (0.1%) of V.C. Summer Station gaseous effluent limits. ODCM equation 60, which limits

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

oil incineration burn rate, was changed for consistency with the revised oil incineration release specifications limiting offsite dose rate (maximum organ) to 1.5 mrem/year. The maximum offsite organ dose resulting from oil incineration has been revised to 0.015 mrem.

ODCM revision 19 further restricts offsite dose and dose rate resulting from oil incineration to a small fraction of Summer Station limits. This ensures that the consequence of oil incineration remains minimal and that Summer Station gaseous effluent limits will not be exceeded. Therefore, this ODCM revision does not represent a change to the 10CFR50 Appendix I based Summer Station offsite dose limits or a decrease in the level of control required for demonstrating compliance with 10CFR20.106 (or revised 10CFR20.1302).

Since Summer Station offsite dose and dose rate limits are not affected by this revision and since controls for oil incineration are established as a small fraction of Summer Station limits, the changes included in ODCM revision 19 did not result in a reduction in effluent control required by 10CFR20.106, 40CFR190, 10CFR50.36 (a) or Appendix I to 10CFR50. A detailed description of the change as well as Revision 19 of the ODCM is in Attachment I.

Revision 20 of the ODCM involves reduction of radiological environmental program sampling requirements and establishment of an alternate release pathway for contents of the RWST pit drain tank as well as a release pathway for waste collected from the NaOH spray tank.

Reductions in sampling requirements are based on review of previous monitoring results and VCSNS effluent history. Highest anticipated offsite locations for each pathway will continue to be monitored. Therefore, the suggested changes will not impact program quality or compromise the Radiological Environmental Monitoring Program's ability to credibly monitor the maximum offsite dose resulting from release of radioactive effluents from VCSNS. These changes are described in the detail in the attached summary.

With the present effluent release controls, detectable levels of radioactive contamination in the RWST pit drain tank ("rainwater tank") require the use of the liquid waste processing system for release to the environment. As a result, drain tank contents with minimal levels of contamination have fouled resin beds and resulted in considerable radwaste disposal cost. Contamination of NaOH tank contents has resulted in management of NaOH spray

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

tank waste by storage in drums since release of radioactive material through the neutralization basin is not recognized as a release pathway for radioactive materials. The neutralization basin is recognized, however, for treatment of caustic waste from the NaOH spray tank. Revision 20 of the ODCM establishes controls for release of small quantities of radioactive materials from the RWST drain tank and NaOH tank to the neutralization basin (Outfall 007). The neutralization basin can be mixed, sampled, and released directly through circulating water to Lake Monticello. Administrative controls are specified in this revision that restrict the radioactive liquid effluent discharged to <1% of V.C. Summer Station 31-day unprocessed liquid effluent limits (per release) and <5% of the same limits (per calendar month). These discharge limits ensure that release of radioactive material through this pathway remain a small fraction of annual release limits (<1%).

ODCM Revision 20 allows radioactive material releases through outfall 007 (despite the lack of a radiation monitor for this pathway) because representative samples can be taken prior to any effluent batch release, effectively controlling release quantities. If stringent screening criteria are met, contaminated liquid from the rain tank, NaOH tank, or stored NaOH may be released into the NaOH sump and pumped to the neutralization basin. The resulting solution in the neutralization basin is recirculated, sampled and the batch permit finalized prior to release to circulating water. This sampling program ensures that the consequence of unprocessed effluent releases through this pathway remain minimal and that Summer Station liquid limits will not be exceeded.

This revision of the ODCM does not affect any setpoint methodology employed in the ODCM. Dose calculation methodology required for the described NaOH sump/neutralization basin release pathway is established consistent with other liquid release pathway dose calculation methodology. Since Summer Station offsite dose and dose rate limits are not affected by this revision and since controls for release of radioactive materials through the neutralization basin are established as a small fraction of Summer Station limits, the changes included in ODCM Revision 20 do not represent a reduction in effluent control required by 10CFR20.1302 (10CFR20.106), 40CFR190, 10CFR50.36 (a) or Appendix I to 10CFR50.

A detailed description of the changes as well as Revision 20 of the ODCM is in the Attachment II.

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

H. Oil Incineration

Gaseous releases from oil incineration were minimal during 1995. The incinerator operated for a period of 19 hours, burning 146 gallons of oil at 7.7 gal/hr. The incinerated oil contained Co-60, Mn-54 and tritium at concentrations of $3.69\text{E-}8$, $6.52\text{E-}9$ and $1.35\text{E-}5$ uCi/ml, respectively. The annual organ dose from the incinerated oil was $7.65\text{E-}5$ mrem.

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

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 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).

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

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 $2E-4$ $\mu\text{Ci/ml}$ 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: 7
- 2. Total time period for batch releases: $2.10E+3$ min
- 3. Maximum time period for a batch release: $4.20E+2$ min
- 4. Average time period for a batch release: $3.00E+2$ min
- 5. Minimum time period for a batch release: $1.80E+2$ min

b. Liquid:

- 1. Number of batch releases:
 - 68 For first quarter, 1995
 - 42 For second quarter, 1995
 - 30 For third quarter, 1995
 - 26 For fourth quarter, 1995

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas

Supplemental Information

2. Total time period for batch releases:
 - 5.25E + 3 min. for first quarter, 1995
 - 3.18E + 3 min. for second quarter, 1995
 - 2.19E + 3 min. for third quarter, 1995
 - 1.95E + 3 min. for fourth quarter 1995
3. Maximum time period for a batch release:
 - 8.70E + 1 min. for first quarter, 1995
 - 1.66E + 2 min. for second quarter, 1995
 - 8.80E + 1 min. for third quarter, 1995
 - 9.00E + 1 min. for fourth quarter, 1995
4. Average time period for batch releases:
 - 7.72E + 1 min. for first quarter, 1995
 - 7.56E + 1 min. for second quarter, 1995
 - 7.29E + 1 min. for third quarter, 1995
 - 7.49E + 1 min. for fourth quarter, 1995
5. Minimum time period for a batch release:
 - 7.00E + 1 min. for first quarter, 1995
 - 4.00E + 1 min. for second quarter, 1995
 - 1.30E + 1 min. for third quarter, 1995
 - 6.20E + 1 min. for fourth quarter, 1995
6. Average stream flow during periods of release of effluent into a flowing stream for 1995:
 - 3.53E + 6 gpm for first quarter, 1995
 - 4.50E + 6 gpm for second quarter, 1995
 - 6.41E + 6 gpm for third quarter, 1995
 - 3.12E + 6 gpm for fourth quarter, 1995
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

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December 1995

Virgil C. Summer Nuclear Station

South Carolina Electric & Gas

Table 2
Gaseous Effluents Summation of All Releases

	UNITS	FIRST QTR	SECOND QTR	THIRD QTR	FOURTH QTR	1995 TOTAL	EST. ERROR %
A. Fission & Activation Gases							
1. Total release	Ci	1.10E+00	1.52E+00	8.80E-02	7.71E-02	2.79E+00	32.4
2. Average release rate	uCi / sec	1.42E-01	1.93E-01	1.11E-02	9.70E-03	8.85E-02	
3. Percent ODCM Qtr. gamma air dose limit	%	4.92E-03	3.77E-02	6.05E-06	5.47E-06	N/A	
4. Percent ODCM annual gamma air dose limit	%	2.46E-03	2.13E-02**	2.13E-02**	2.13E-02**	2.13E-02	
5. Percent ODCM Qtr. beta air dose limit	%	4.94E-03	7.41E-03	3.43E-04	3.00E-04	N/A	
6. Percent ODCM annual beta air dose limit	%	2.47E-03	6.17E-03**	6.35E-03**	6.49E-03**	6.49E-03	
B. Iodines							
1. Total iodine - 131	Ci	0	0	3.03E-07	0	3.03E-07	68.5
2. Average release rate	uCi / sec	0	0	3.81E-08	0	9.61E-10	
C. Particulates							
1. Particulates with half - lifes > 8 days	Ci	0	6.23E-07	0	2.40E-08*	6.47E-07	63.7
2. Average release rate	uCi / sec	0	7.93E-08	0	3.02E-09	2.05E-08	
3. Gross alpha radioactivity	Ci	0	0	0	0	0	
D. Tritium							
1. Total release	Ci	0	1.86E+00	0	7.46E+00*	9.32E+00	21.1
2. Average release rate	uCi / sec	0	2.36E-01	0	9.39E-01	2.96E-01	
E. Organ Dose (from B,C,and D)							
1. Percent ODCM Qtr. organ dose limit	%	0	1.31E-02	7.42E-05	2.91E-06*	N/A	
2. Percent ODCM annual organ dose limit	%	0	6.54E-03**	6.57E-03**	6.58E-03**	6.58E-03	

* From oil incinerator (19 hr. total release)

** Cumulative

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Table 5
LIQUID EFFLUENTS

Continuous Mode

Batch Mode

Nuclides Released†	Unit	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Annual Total	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Annual Total
Strontium-89	Ci	0	0	0	9.27E-5	9.27E-5	2.43E-5	7.39E-6	1.44E-5	2.57E-5	7.18E-5
Strontium-90	Ci	0	0	0	0	0	2.54E-5	1.53E-5	7.84E-6	1.86E-6	5.04E-5
Cesium-134	Ci	0	0	0	0	0	2.37E-4	2.35E-5	5.12E-5	7.75E-5	3.89E-4
Cesium-137	Ci	0	0	0	0	0	4.89E-4	6.87E-5	1.56E-4	2.71E-4	9.85E-4
Iodine-131	Ci	0	0	0	0	0	6.10E-6	4.84E-6	0	1.85E-5	2.94E-5
Cobalt-58	Ci	0	0	0	0	0	1.27E-2	3.83E-3	4.56E-3	2.04E-3	2.31E-2
Cobalt-60	Ci	2.12E-5	0	0	0	2.12E-5	1.99E-2	3.19E-3	4.09E-3	8.32E-3	3.55E-2
Iron-59	Ci	0	0	0	0	0	2.85E-4	5.64E-6	0	0	2.91E-4
Zinc-65	Ci	0	0	0	0	0	4.64E-4	0	0	8.01E-5	5.44E-4
Manganese-54	Ci	0	0	0	0	0	3.22E-3	5.79E-4	1.09E-3	1.59E-3	6.48E-3
Chromium-51	Ci	0	0	0	0	0	4.01E-3	1.23E-4	0	0	4.13E-3
Zirconium-Niobium-95	Ci	0	0	0	0	0	5.93E-3	3.67E-4	3.09E-4	1.08E-4	6.72E-3
Molybdenum-99	Ci	0	0	0	0	0	0	0	0	0	0
Technetium-99m	Ci	0	0	0	0	0	0	0	0	0	0
Barium-Lanth.-140	Ci	0	0	0	0	0	0	4.92E-6	0	0	4.92E-6
Cerium-141	Ci	0	0	0	0	0	0	0	0	0	0
Other: Fe-55	Ci	0	0	3.5E-4	6.7E-4	1.02E-3	5.72E-3	7.47E-3	7.46E-3	3.63E-3	2.43E-2
Co-57	Ci	0	0	0	0	0	1.21E-4	1.33E-5	2.88E-5	2.93E-5	1.92E-4
Ru-106	Ci	0	0	0	0	0	7.35E-5	0	0	0	7.35E-5
Ag-110m	Ci	0	0	0	0	0	3.88E-4	2.40E-5	3.44E-6	1.44E-5	4.30E-4
Sn-113	Ci	0	0	0	0	0	4.17E-4	2.08E-5	1.03E-5	1.94E-5	4.68E-4
Sb-124	Ci	0	0	0	0	0	2.86E-5	8.50E-5	1.22E-5	1.51E-6	1.27E-4
Sb-125	Ci	0	0	0	0	0	1.67E-3	3.57E-3	6.53E-4	1.20E-3	7.09E-3
Unidentified: None	Ci	0	0	0	0	0	0	0	0	0	0
Total for Period (above)	Ci	2.12E-5	0	3.85E-4	7.30E-4	1.13E-3	5.57E-2	1.94E-2	1.84E-2	1.74E-2	1.11E-1
Xenon-133	Ci	0	0	0	7.54E-7	7.54E-7	1.85E-3	1.56E-4	1.29E-5	5.62E-5	2.08E-3
Xenon-135	Ci	0	0	0	5.43E-6	5.43E-6	8.42E-5	0	0	0	8.42E-5
Other: Ar-41	Ci	0	0	0	0	0	1.87E-5	0	0	0	1.87E-5
Kr-85m	Ci	0	0	0	0	0	3.63E-6	0	0	0	3.63E-6
Unidentified: None	Ci	0	0	0	0	0	0	0	0	0	0
Total entrained gases	Ci	0	0	0	6.18E-6	6.18E-6	1.96E-3	1.56E-4	1.29E-5	5.62E-5	2.19E-3

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

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December 1995

Virgil C. Summer Nuclear Station

South Carolina Electric & Gas

Table 4

Liquid Effluents Summation of All Releases

	UNITS	FIRST QTR	SECOND QTR	THIRD QTR	FOURTH QTR	1995 TOTAL	EST. ERROR %
A. Fission & Activation Products							
1. Total release	Ci	5.58E-02	1.94E-02	1.88E-02	1.82E-02	1.12E-01	18.8
2. Average diluted concentration	uCi / ml	1.65E-10	5.97E-11	5.78E-11	5.97E-11	8.68E-11	
B. Tritium							
1. Total release	Ci	4.36E+01	1.18E+02	7.33E+01	7.06E+01	3.06E+02	18.4
2. Average diluted concentration	uCi / ml	1.29E-07	3.63E-07	2.25E-07	2.32E-07	2.37E-07	
C. Dissolved and entrained gases							
1. Total release	Ci	1.96E-03	1.56E-04	1.29E-05	6.24E-05	2.19E-03	47.0
2. Average diluted concentration	uCi / ml	5.78E-12	4.81E-13	3.98E-14	2.05E-13	1.70E-12	
3. Percent ODCM limit	%	2.89E-06	2.41E-07	1.99E-08	1.03E-07	8.49E-07	
D. Gross alpha radioactivity							
1. Total release	Ci	0	0	0	0	0	
E. ODCM limits (from A and B)							
1. Percent of ODCM Qtr total body limit	%	8.72E-02	9.56E-02	7.42E-02	8.74E-02	N/A	
2. Percent ODCM annual total body limit	%	4.36E-02	9.13E-02*	1.28E-01*	1.72E-01*	1.72E-01	
3. Percent ODCM Qtr max organ limit	%	1.97E-01	3.85E-02	2.92E-02	2.86E-02	N/A	
3. Percent ODCM annual max. organ limit	%	9.83E-02	1.18E-01*	1.32E-01*	1.46E-01*	1.46E-01	
E. Volume of waste released (undiluted)							
	liters	4.01E+07	2.42E+07	1.58E+07	1.69E+07	9.70E+07	3.0
F. Volume of dilution water							
	liters	3.38E+11	3.25E+11	3.25E+11	3.04E+11	1.29E+12	4.3

* Cumulative

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

January - December, 1995

Table 3

GASEOUS EFFLUENTS -- GROUND-LEVEL RELEASES

Nuclides Released	Unit	Continuous Mode					Batch Mode				
		First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Annual Total	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Annual Total
1. Fission gases											
Krypton-85	Ci	0	0	0	0	0	4.63E-1	3.14E-1	8.80E-2	7.70E-2	9.42E-1
Krypton-85m	Ci	0	0	0	0	0	0	2.19E-4	0	0	2.19E-4
Krypton-87	Ci	0	0	0	0	0	0	0	0	0	0
Krypton-88	Ci	0	3.85E-1	0	0	3.85E-1	0	0	0	0	0
Xenon-133	Ci	0	1.67E-1	0	0	1.67E-1	1.26E-3	5.16E-2	0	1.29E-4	5.30E-2
Xenon-135	Ci	6.37E-1	2.51E-1	0	0	8.88E-1	0	2.88E-2	0	0	2.88E-2
Xenon-135m	Ci	0	0	0	0	0	0	0	0	0	0
Xenon-138	Ci	0	0	0	0	0	0	0	0	0	0
Other: Ar-41	Ci	0	3.19E-1	0	0	3.19E-1	0	0	0	0	0
Xe-133m	Ci	0	0	0	0	0	0	2.03E-3	0	0	2.03E-3
Unidentified: None	Ci	0	0	0	0	0	0	0	0	0	0
Total for period	Ci	6.37E-1	1.12E+0	0	0	1.76E+0	4.65E-1	3.97E-1	8.80E-2	7.71E-2	1.03E+0
2. Iodines and other halogens											
Iodine-131	Ci	0	0	3.03E-7	0	3.03E-7	0	0	0	0	0
Iodine-133	Ci	0	0	0	0	0	0	0	0	0	0
Iodine-135	Ci	0	0	0	0	0	0	0	0	0	0
Bromine-82	Ci	0	4.44E-7	0	0	4.44E-7	0	0	0	0	0
Total for period	Ci	0	4.44E-7	3.03E-7	0	7.47E-7	0	0	0	0	0
3. Particulates											
Strontium-89	Ci	0	0	0	0	0	0	0	0	0	0
Strontium-90	Ci	0	0	0	0	0	0	0	0	0	0
Cesium-134	Ci	0	0	0	0	0	0	0	0	0	0
Cesium-137	Ci	0	0	0	0	0	0	0	0	0	0
Barium-Lanth.-140	Ci	0	0	0	0	0	0	0	0	0	0
Others: Mn-54	Ci	0	0	0	0	0	0	0	0	3.60E-9*	3.60E-9*
Co-58	Ci	0	5.50E-7	0	0	5.50E-7	0	0	0	0	0
Co-60	Ci	0	7.37E-8	0	0	7.37E-8	0	0	0	2.04E-8*	2.04E-8*
Rb-88	Ci	0	3.48E-2	0	0	3.48E-2	0	0	0	0	0
Cs-138	Ci	0	3.56E-3	0	0	3.56E-3	0	0	0	0	0
Unidentified: None	Ci	0	0	0	0	0	0	0	0	0	0
Total for period	Ci	0	3.84E-2	0	0	3.84E-2	0	0	0	2.40E-8	2.40E-8

*From Oil Incinerator.

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT
 January - December, 1995
 Table 6
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

Type of waste	Unit	1995 Total	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³ Ci	2.40E+0 2.44E+1	3.50E+1
b. Dry compressible waste, contaminated equip., etc.	m ³ Ci	8.90E+0 8.44E-1	3.50E+1
c. Irradiated components, control rods, etc.	m ³ Ci	0 0	N/A
d. Other (describe)	m ³ Ci	0 0	N/A

2. Estimate of major nuclide composition for the year (by type of waste) for concentrations above 1.0% (listed in descending order by activity level).

a. Fe-55	%	43.85
Nb-95	%	10.31
Co-58	%	10.24
Co-60	%	7.65
Zr-95	%	6.66
H-3	%	4.56
Ni-63	%	4.35
C-14	%	4.14
Cr-51	%	3.22
Mn-54	%	2.38
b. Fe-55	%	53.23
Co-60	%	16.49
Ni-63	%	9.80
Co-58	%	7.06
Mn-54	%	4.03
Nb-95	%	2.15
Cs-137	%	1.88
Cr-51	%	1.24
Zr-95	%	1.12
Sb-125	%	1.06
c. None	%	N/A
d. None	%	N/A

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
† 49	Truck	Barnwell, SC

†Note: 48 are partial shipment of DAW from waste processor to Barnwell, SC.

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
1	Truck	Chalk River, Canada

TABLE 7

JOINT FREQUENCY DISTRIBUTION

BY QUARTER 1995

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

Stability Class: A $\Delta T / \Delta z$ 61->10 m Delta T With Substitution

Wind Sensor Height : 10 meter

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	1	0	0	0	0	1	5.20
SSW	0	2	2	0	0	0	4	7.86
SW	0	11	8	0	0	0	19	7.36
WSW	0	2	12	3	0	0	17	10.22
W	0	2	0	1	0	0	3	9.27
WNW	1	2	0	0	0	0	3	5.16
NW	0	0	0	5	0	0	5	14.95
NNW	0	0	0	1	1	0	2	19.77
Total	1	20	22	10	1	0	54	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 8
 Hours of No Stability Class : 9
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

Wind Sensor Height : 10 meter

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	1	0	0	0	0	1	7.07
E	1	0	0	0	0	0	1	3.39
ESE	0	1	0	0	0	0	1	4.78
SE	0	0	0	1	0	0	1	13.35
SSE	0	1	0	0	0	0	1	4.38
S	0	0	0	0	0	0	0	0.00
SSW	0	4	3	0	0	0	7	7.99
SW	0	9	5	0	0	0	14	7.60
WSW	0	7	10	3	0	0	20	9.23
W	1	0	6	4	0	0	11	10.40
WNW	0	2	2	0	0	0	4	7.64
NW	2	2	2	1	0	0	7	7.51
NNW	0	4	0	2	0	0	6	8.77
Total	4	31	28	11	0	0	74	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 8
 Hours of No Stability Class : 9
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

Stability Class: C $\Delta T / \Delta z$ 61->10 m ΔT With Substitution

Wind Sensor Height : 10 meter

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	1	2	0	2	1	0	6	10.57
NNE	1	4	6	1	0	0	12	8.51
NE	1	3	2	1	0	0	7	7.27
ENE	0	1	1	0	0	0	2	7.10
E	0	1	0	0	0	0	1	7.22
ESE	0	1	0	0	0	0	1	5.67
SE	0	1	0	5	0	0	6	13.65
SSE	0	0	1	1	0	0	2	12.21
S	0	1	0	0	0	0	1	5.55
SSW	1	6	2	0	0	0	9	7.27
SW	0	10	1	0	0	0	11	6.43
WSW	0	9	3	4	0	0	16	8.53
W	0	3	5	4	0	0	12	10.96
WNW	0	6	1	0	0	0	7	6.45
NW	0	4	1	0	0	0	5	6.64
NNW	2	2	0	5	0	0	9	10.82
Total	6	54	23	23	1	0	107	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 8
 Hours of No Stability Class : 9
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

Wind Sensor Height : 10 meter

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	8	25	15	14	5	0	67	9.66
NNE	7	30	43	18	0	0	98	9.37
NE	3	41	104	18	0	0	166	9.51
ENE	2	19	50	9	0	0	80	9.61
E	2	29	14	0	0	0	45	7.16
ESE	3	16	5	0	0	0	24	6.67
SE	1	16	13	12	0	0	42	10.17
SSE	2	15	13	4	0	0	34	8.37
S	6	14	7	7	0	0	34	8.38
SSW	6	18	15	2	0	0	41	7.59
SW	10	40	7	1	0	0	58	6.07
WSW	9	25	28	4	0	0	66	8.06
W	9	21	13	3	0	0	46	7.05
WNW	11	26	6	4	0	0	47	6.21
NW	9	20	10	4	1	0	44	7.28
NNW	14	16	28	18	4	0	80	9.85
Total	102	371	371	118	10	0	972	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 8
 Hours of No Stability Class : 9
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

Wind Sensor Height : 10 meter

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	8	11	6	0	0	0	25	5.93
NNE	8	7	3	1	0	0	19	5.65
NE	8	8	6	4	0	0	26	7.12
ENE	5	10	2	0	0	0	17	5.35
E	6	12	5	0	0	0	23	5.47
ESE	1	14	2	0	0	0	17	6.12
SE	7	18	6	0	0	0	31	5.97
SSE	8	7	3	0	0	0	18	5.27
S	6	24	10	1	0	0	41	6.54
SSW	7	31	9	0	0	0	47	6.30
SW	17	44	22	0	0	0	83	6.24
WSW	11	53	18	0	0	0	82	6.34
W	19	42	12	0	0	0	73	5.57
WNW	6	19	1	0	0	0	26	4.78
NW	3	8	2	0	0	0	13	5.42
NNW	9	6	6	3	1	0	25	7.90
Total	129	314	113	9	1	0	566	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 5
 Hours of Missing Data for All : 8
 Hours of No Stability Class : 9
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

Wind Sensor Height : 10 meter

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	2	3	0	0	0	0	5	3.83
NNE	1	4	0	0	0	0	5	5.52
NE	4	3	0	0	0	0	7	4.47
ENE	8	0	0	0	0	0	8	3.05
E	2	4	0	0	0	0	6	4.14
ESE	0	2	2	0	0	0	4	6.96
SE	5	26	0	0	0	0	31	5.56
SSE	4	34	1	0	0	0	39	5.35
S	3	31	1	0	0	0	35	5.63
SSW	5	6	0	0	0	0	11	4.57
SW	7	8	0	0	0	0	15	3.68
WSW	14	7	0	0	0	0	21	3.39
W	10	10	0	0	0	0	20	3.95
WNW	1	7	0	0	0	0	8	4.65
NW	3	4	0	0	0	0	7	3.95
NNW	2	4	0	0	0	0	6	4.43
Total	71	153	4	0	0	0	228	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 1
 Hours of Missing Data for All : 8
 Hours of No Stability Class : 9
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

Wind Sensor Height : 10 meter

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	1	0	0	0	0	0	1	3.71
NNE	1	0	0	0	0	0	1	2.54
NE	0	2	0	0	0	0	2	4.82
ENE	0	1	0	0	0	0	1	5.89
E	0	0	0	0	0	0	0	0.00
ESE	1	0	0	0	0	0	1	2.57
SE	4	3	0	0	0	0	7	3.63
SSE	10	7	0	0	0	0	17	3.76
S	17	8	0	0	0	0	25	3.69
SSW	7	4	0	0	0	0	11	3.35
SW	8	5	0	0	0	0	13	3.33
WSW	24	5	0	0	0	0	29	3.12
W	12	2	0	0	0	0	14	3.22
WNW	9	3	0	0	0	0	12	3.08
NW	6	0	1	0	0	0	7	3.33
NNW	3	0	0	0	0	0	3	1.92
Total	103	40	1	0	0	0	144	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 8
 Hours of No Stability Class : 9
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

Wind Sensor Height : 10 meter

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	20	41	21	16	6	0	104	8.48
NNE	18	45	52	20	0	0	135	8.58
NE	16	57	112	23	0	0	208	8.92
ENE	15	32	53	9	0	0	109	8.36
E	11	46	19	0	0	0	76	6.36
ESE	5	34	9	0	0	0	48	6.36
SE	17	64	25	18	0	0	124	7.73
SSE	24	64	19	5	0	0	112	6.16
S	32	79	18	8	0	0	137	6.23
SSW	26	71	31	2	0	0	130	6.52
SW	42	127	43	1	0	0	213	6.04
WSW	58	108	71	14	0	0	251	6.81
W	51	80	36	12	0	0	179	6.31
WNW	28	65	10	4	0	0	107	5.43
NW	23	38	16	10	1	0	88	6.84
NNW	30	32	34	29	6	0	131	9.22
Total	416	983	569	171	13	0	2152	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data for All : 8
 Hours of No Stability Class : 9
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

Wind Sensor Height : 10 meter

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	1	2	0	0	0	0	3	4.43
NNE	0	1	0	0	0	0	1	4.22
NE	0	3	0	0	0	0	3	4.75
ENE	2	1	0	0	0	0	3	4.34
E	0	1	0	0	0	0	1	4.40
ESE	0	0	2	0	0	0	2	8.87
SE	0	0	0	0	0	0	0	0.00
SSE	0	1	0	0	0	0	1	5.67
S	0	2	5	0	0	0	7	9.10
SSW	0	5	11	0	0	0	16	8.47
SW	1	12	13	0	0	0	26	7.82
WSW	1	20	26	0	0	0	47	7.95
W	1	5	8	0	0	0	14	7.88
WNW	0	6	2	0	0	0	8	7.01
NW	1	2	2	0	0	0	5	6.50
NNW	0	0	0	0	0	0	0	0.00
Total	7	61	69	0	0	0	137	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 13
 Hours of Missing Data for All : 288
 Hours of No Stability Class : 28
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

Wind Sensor Height : 10 meter

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	1	4	0	1	0	0	6	5.87
NNE	0	1	0	0	0	0	1	4.58
NE	0	6	1	0	0	0	7	5.61
ENE	0	1	2	0	0	0	3	7.33
E	0	0	3	1	0	0	4	10.13
ESE	0	3	2	0	0	0	5	7.85
SE	0	5	0	0	0	0	5	6.58
SSE	0	3	2	0	0	0	5	7.01
S	0	9	2	0	0	0	11	6.69
SSW	0	6	10	0	0	0	16	8.48
SW	1	6	5	0	0	0	12	6.93
WSW	0	9	5	1	0	0	15	6.96
W	3	7	6	0	0	0	16	7.08
WNW	0	6	4	0	0	0	10	6.75
NW	0	5	3	0	0	0	8	7.30
NNW	1	2	0	0	0	0	3	5.06
Total	6	73	45	3	0	0	127	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 12
 Hours of Missing Data for All : 288
 Hours of No Stability Class : 28
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

Wind Sensor Height : 10 meter

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	4	5	0	0	0	0	9	4.51
NNE	2	5	0	0	0	0	7	5.07
NE	2	8	2	0	0	0	12	5.63
ENE	0	3	5	0	0	0	8	8.61
E	1	3	9	0	0	0	13	9.02
ESE	0	6	5	0	0	0	11	7.32
SE	0	3	2	0	0	0	5	8.69
SSE	0	5	1	0	0	0	6	6.63
S	0	2	1	1	0	0	4	9.33
SSW	0	7	6	0	0	0	13	7.58
SW	1	11	3	0	0	0	15	6.14
WSW	2	11	5	1	0	0	19	6.15
W	2	3	5	0	0	0	10	7.08
WNW	0	8	1	0	0	0	9	6.25
NW	1	3	5	0	0	0	9	7.68
NNW	1	6	0	0	1	0	8	7.33
Total	16	89	50	2	1	0	158	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 24
 Hours of Missing Data for All : 288
 Hours of No Stability Class : 28
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

Wind Sensor Height : 10 meter

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	10	28	12	1	1	1	53	7.16
NNE	15	34	14	9	5	0	77	8.20
NE	2	21	26	8	9	0	66	10.90
ENE	3	13	35	11	0	0	62	10.28
E	2	27	19	1	0	0	49	7.73
ESE	0	19	10	0	0	0	29	7.08
SE	3	24	7	1	0	0	35	6.81
SSE	3	13	8	8	0	0	32	8.72
S	4	11	20	3	0	0	38	8.18
SSW	4	17	13	1	0	0	35	7.12
SW	4	22	19	0	0	0	45	6.85
WSW	10	18	12	0	0	0	40	6.26
W	9	14	6	0	0	0	29	5.68
WNW	5	12	1	0	0	0	18	5.07
NW	6	10	8	0	0	0	24	6.45
NNW	11	10	8	16	1	0	46	9.47
Total	91	293	218	59	16	1	678	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 123
 Hours of Missing Data for All : 288
 Hours of No Stability Class : 28
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

Stability Class: E $\Delta T / \Delta z$ 61->10 m ΔT With Substitution

Wind Sensor Height : 10 meter

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	5	8	4	1	0	0	18	6.45
NNE	3	8	1	0	0	0	12	5.12
NE	1	5	6	0	0	0	12	7.64
ENE	3	5	3	0	0	0	11	6.63
E	3	6	2	0	0	0	11	5.65
ESE	4	8	2	0	0	0	14	5.29
SE	9	26	3	0	0	0	38	5.46
SSE	6	30	10	0	0	0	46	6.20
S	15	28	14	0	0	0	57	6.02
SSW	13	44	11	0	0	0	68	6.10
SW	25	51	6	0	0	0	82	4.99
WSW	17	37	1	0	0	0	55	4.66
W	13	23	0	0	0	0	36	4.73
WNW	9	4	0	0	0	0	13	3.58
NW	8	5	1	0	0	0	14	3.99
NNW	6	8	1	1	0	0	16	5.45
Total	140	296	65	2	0	0	503	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 63
 Hours of Missing Data for All : 288
 Hours of No Stability Class : 28
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

Stability Class: F $\Delta T / \Delta z$ 61->10 m ΔT With Substitution

Wind Sensor Height : 10 meter

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	1	0	0	0	0	0	1	2.40
NNE	0	1	0	0	0	0	1	5.04
NE	1	0	0	0	0	0	1	3.62
ENE	1	0	0	0	0	0	1	2.09
E	1	5	0	0	0	0	6	4.78
ESE	4	3	0	0	0	0	7	4.22
SE	3	10	0	0	0	0	13	5.43
SSE	3	16	0	0	0	0	19	5.53
S	8	15	4	0	0	0	27	3.19
SSW	10	14	0	0	0	0	24	4.37
SW	11	8	0	0	0	0	19	3.93
WSW	5	1	0	0	0	0	6	3.15
W	11	1	0	0	0	0	12	2.95
WNW	7	8	0	0	0	0	15	4.06
NW	3	4	1	0	0	0	8	5.02
NNW	2	3	0	0	0	0	5	3.72
Total	71	89	5	0	0	0	165	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 26
 Hours of Missing Data for All : 288
 Hours of No Stability Class : 28
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

Wind Sensor Height : 10 meter

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	1	0	0	0	0	0	1	1.25
ENE	0	0	0	0	0	0	0	0.00
E	1	0	0	0	0	0	1	2.78
ESE	2	0	0	0	0	0	2	3.00
SE	3	0	0	0	0	0	3	2.34
SSE	8	5	0	0	0	0	13	4.12
S	12	3	0	0	0	0	15	3.36
SSW	7	5	0	0	0	0	12	3.82
SW	11	7	0	0	0	0	18	3.44
WSW	18	1	0	0	0	0	19	3.34
W	16	5	1	0	0	0	22	3.68
WNW	5	2	0	0	0	0	7	3.39
NW	1	0	0	0	0	0	1	2.47
NNW	0	0	0	0	0	0	0	0.00
Total	85	28	1	0	0	0	114	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 13
 Hours of Missing Data for All : 288
 Hours of No Stability Class : 28
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

Wind Sensor Height : 10 meter

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	22	47	16	3	1	1	90	6.53
NNE	20	50	15	9	5	0	99	7.50
NE	7	43	35	8	9	0	102	9.18
ENE	9	23	45	11	0	0	88	9.28
E	8	42	33	2	0	0	85	7.47
ESE	10	39	21	0	0	0	70	6.46
SE	18	69	12	1	0	0	100	6.06
SSE	21	73	23	8	0	0	125	6.59
S	39	70	51	5	0	0	165	6.55
SSW	34	98	54	1	0	0	187	6.48
SW	54	118	46	0	0	0	218	5.67
WSW	53	97	49	2	0	0	201	5.89
W	55	58	26	0	0	0	139	5.37
WNW	26	46	8	0	0	0	80	5.03
NW	20	29	20	0	0	0	69	5.99
NNW	21	29	9	17	2	0	78	7.89
Total	417	931	463	67	17	1	1896	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data for All : 288
 Hours of No Stability Class : 28
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

Wind Sensor Height : 10 meter

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	2	0	0	0	0	0	2	2.65
NNE	0	0	0	3	0	0	3	15.46
NE	1	1	0	0	0	0	2	3.86
ENE	0	0	0	0	0	0	0	0.00
E	0	1	1	2	0	0	4	11.77
ESE	0	1	0	1	0	0	2	10.72
SE	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0.00
S	0	2	1	0	0	0	3	7.69
SSW	0	1	0	0	0	0	1	5.03
SW	0	4	1	0	0	0	5	6.38
WSW	0	10	6	0	0	0	16	8.14
W	0	3	0	0	0	0	3	6.51
WNW	1	2	0	0	0	0	3	4.95
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	4	25	9	6	0	0	44	

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 : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

Wind Sensor Height : 10 meter

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	2	0	0	0	0	2	5.05
NNE	0	2	0	1	0	0	3	7.93
NE	1	5	0	0	1	0	7	6.99
ENE	0	0	0	0	0	0	0	0.00
E	0	1	2	1	0	0	4	10.43
ESE	0	2	0	0	0	0	2	7.81
SE	0	0	6	0	0	0	6	9.55
SSE	0	1	3	0	0	0	4	9.79
S	0	1	3	0	0	0	4	8.48
SSW	0	3	1	0	0	0	4	5.82
SW	1	11	2	0	0	0	14	5.86
WSW	1	9	0	0	0	0	10	5.23
W	1	4	0	0	0	0	5	4.87
WNW	0	3	0	0	0	0	3	5.47
NW	0	0	0	0	0	0	0	0.00
NNW	2	1	0	0	0	0	3	3.95
Total	6	45	17	2	1	0	71	

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 : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

Wind Sensor Height : 10 meter

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	4	3	0	0	0	0	7	4.00
NNE	5	8	1	9	0	0	23	9.30
NE	3	10	4	3	0	0	20	7.66
ENE	0	7	5	0	0	0	12	7.86
E	0	3	6	0	0	0	9	8.36
ESE	1	2	4	0	0	0	7	7.77
SE	0	2	5	0	0	0	7	8.17
SSE	0	3	0	0	0	0	3	6.17
S	0	4	7	1	0	0	12	8.64
SSW	0	4	2	0	0	0	6	7.52
SW	2	11	2	0	0	0	15	5.99
WSW	0	11	3	0	0	0	14	6.29
W	3	3	0	0	0	0	6	3.86
WNW	3	8	0	0	0	0	11	4.51
NW	1	3	0	0	0	0	4	3.98
NNW	2	5	1	0	0	0	8	5.33
Total	24	87	40	13	0	0	164	

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 : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

Wind Sensor Height : 10 meter

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	30	46	18	6	0	0	100	6.20
NNE	26	75	76	40	0	0	217	8.93
NE	6	60	129	49	0	0	244	10.12
ENE	5	50	67	18	0	0	140	9.14
E	3	64	44	13	0	0	124	8.37
ESE	2	27	12	2	0	0	43	7.18
SE	3	18	8	0	0	0	29	6.83
SSE	1	25	8	0	0	0	34	6.51
S	5	29	16	0	0	0	50	6.84
SSW	7	16	6	0	0	0	29	6.19
SW	12	11	3	0	0	0	26	4.69
WSW	15	12	0	0	0	0	27	3.83
W	13	15	0	0	0	0	28	4.16
WNW	10	4	0	0	0	0	14	3.64
NW	6	7	1	0	0	0	14	5.12
NNW	12	19	4	0	0	0	35	5.13
Total	156	478	392	128	0	0	1154	

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 : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

Wind Sensor Height : 10 meter

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	2	7	0	0	0	0	9	4.56
NNE	6	6	3	0	0	0	15	5.33
NE	5	6	9	3	0	0	23	8.38
ENE	3	3	4	1	0	0	11	7.14
E	9	23	6	0	0	0	38	5.83
ESE	12	10	0	0	0	0	22	4.18
SE	9	48	1	0	0	0	58	5.23
SSE	20	52	6	0	0	0	78	4.95
S	24	35	3	0	0	0	62	4.79
SSW	27	37	2	0	0	0	66	4.58
SW	31	19	0	0	0	0	50	3.77
WSW	33	4	2	0	0	0	39	3.28
W	25	5	0	0	0	0	30	3.03
WNW	17	3	0	0	0	0	20	3.15
NW	8	5	0	0	0	0	13	4.09
NNW	6	3	3	0	0	0	12	4.98
Total	237	266	39	4	0	0	546	

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 : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

Wind Sensor Height : 10 meter

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	2	0	0	0	0	0	2	2.84
NNE	0	0	0	0	0	0	0	0.00
NE	1	0	0	0	0	0	1	3.21
ENE	0	0	0	0	0	0	0	0.00
E	2	0	0	0	0	0	2	2.82
ESE	2	1	0	0	0	0	3	3.38
SE	0	7	0	0	0	0	7	5.76
SSE	9	22	0	0	0	0	31	4.56
S	14	10	2	0	0	0	26	4.27
SSW	13	2	0	0	0	0	15	3.04
SW	17	4	0	0	0	0	21	3.26
WSW	27	3	0	0	0	0	30	2.95
W	18	0	0	0	0	0	18	2.72
WNW	12	1	0	0	0	0	13	2.86
NW	3	0	0	0	0	0	3	2.04
NNW	1	2	0	0	0	0	3	5.15
Total	121	52	2	0	0	0	175	

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 : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

Wind Sensor Height : 10 meter

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	1	2	0	0	0	0	3	3.96
SSW	4	0	0	0	0	0	4	3.20
SW	8	0	0	0	0	0	8	2.83
WSW	16	2	0	0	0	0	18	3.19
W	18	0	0	0	0	0	18	3.17
WNW	1	0	0	0	0	0	1	2.54
NW	2	0	0	0	0	0	2	2.45
NNW	0	0	0	0	0	0	0	0.00
Total	50	4	0	0	0	0	54	

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 : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

Wind Sensor Height : 10 meter

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	40	58	18	6	0	0	122	5.82
NNE	37	91	80	53	0	0	261	8.82
NE	17	82	142	55	1	0	297	9.68
ENE	8	60	76	19	0	0	163	8.91
E	14	92	59	16	0	0	181	7.90
ESE	17	43	16	3	0	0	79	6.36
SE	12	75	20	0	0	0	107	6.13
SSE	30	103	17	0	0	0	150	5.38
S	44	83	32	1	0	0	160	5.77
SSW	51	63	11	0	0	0	125	4.91
SW	71	60	8	0	0	0	139	4.35
WSW	92	51	11	0	0	0	154	4.21
W	78	30	0	0	0	0	108	3.52
WNW	44	21	0	0	0	0	65	3.61
NW	20	15	1	0	0	0	36	4.22
NNW	23	30	8	0	0	0	61	5.07
Total	598	957	499	153	1	0	2208	

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 : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

Wind Sensor Height : 10 meter

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	1	0	0	0	2	8.03
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	1	0	0	0	1	11.43
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	10.90
SW	0	0	0	0	0	0	0	0.00
WSW	0	2	5	0	0	0	7	9.06
W	0	2	3	0	0	0	5	7.47
WNW	0	2	1	0	0	0	3	8.41
NW	0	0	4	3	0	0	7	12.64
NNW	0	0	0	2	0	0	2	13.65
Total	0	7	17	5	0	0	29	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 118
 Hours of No Stability Class : 166
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

Wind Sensor Height : 10 meter

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	4.64
NNE	0	0	0	0	2	0	2	20.86
NE	0	0	0	1	0	0	1	14.93
ENE	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0.00
ESE	0	0	1	1	0	0	2	12.85
SE	0	0	1	0	0	0	1	8.42
SSE	0	0	2	0	0	0	2	9.77
S	0	0	0	0	0	0	0	0.00
SSW	0	0	0	1	0	0	1	14.08
SW	0	5	5	0	0	0	10	8.02
WSW	0	4	5	0	0	0	9	7.18
W	0	4	1	0	0	0	5	7.02
WNW	0	5	1	0	0	0	6	6.73
NW	0	4	2	0	0	0	6	7.60
NNW	1	2	3	0	0	0	6	8.08
Total	1	25	21	3	2	0	52	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 118
 Hours of No Stability Class : 166
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

Wind Sensor Height : 10 meter

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	1	1	1	8	0	0	11	13.84
NNE	1	2	0	3	1	0	7	12.75
NE	0	5	2	0	0	0	7	7.69
ENE	0	6	4	0	0	0	10	8.19
E	0	0	2	0	0	0	2	9.06
ESE	0	0	0	0	0	0	0	0.00
SE	0	1	1	0	0	0	2	8.79
SSE	0	1	0	0	0	0	1	4.71
S	0	1	0	0	0	0	1	6.04
SSW	0	1	4	0	0	0	5	10.09
SW	0	8	1	0	0	0	9	6.85
WSW	0	4	3	2	0	0	9	8.94
W	0	5	1	0	0	0	6	6.37
WNW	0	10	2	0	0	0	12	6.22
NW	0	4	0	0	0	0	4	5.76
NNW	0	7	5	4	0	0	16	10.51
Total	2	56	26	17	1	0	102	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 118
 Hours of No Stability Class : 166
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

Wind Sensor Height : 10 meter

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	14	18	14	7	0	0	53	7.46
NNE	11	35	71	38	0	0	155	9.95
NE	5	44	76	27	0	0	152	9.61
ENE	1	32	63	11	0	0	107	9.34
E	1	22	21	0	0	0	44	7.94
ESE	4	17	6	0	0	0	27	6.49
SE	1	15	1	2	0	0	19	7.01
SSE	8	11	2	1	1	0	23	6.25
S	6	18	2	2	4	1	33	8.82
SSW	0	9	17	4	1	0	31	10.14
SW	14	14	11	1	0	0	40	6.14
WSW	10	26	4	1	0	0	41	5.60
W	10	20	6	2	0	0	38	6.09
WNW	5	22	1	1	1	0	30	5.60
NW	8	13	7	0	0	0	28	5.78
NNW	8	21	19	4	1	0	53	8.17
Total	106	337	321	101	8	1	874	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 118
 Hours of No Stability Class : 166
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

Wind Sensor Height : 10 meter

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	11	6	0	0	0	0	17	3.95
NNE	1	4	6	1	0	0	12	8.41
NE	2	3	13	0	0	0	23	8.77
ENE	2	8	2	0	0	0	12	7.06
E	4	22	6	0	0	0	32	6.01
ESE	4	13	0	0	0	0	17	5.17
SE	7	19	1	2	0	0	29	6.12
SSE	13	17	9	1	0	0	40	5.61
S	8	24	7	0	0	0	39	5.93
SSW	14	38	8	1	0	0	61	6.03
SW	19	39	1	1	0	0	60	5.02
WSW	18	31	4	0	0	0	53	4.90
W	13	28	0	0	0	0	41	5.04
WNW	16	21	0	0	0	0	37	4.70
NW	11	17	0	0	0	0	28	4.66
NNW	3	5	5	1	0	0	14	6.81
Total	146	300	62	7	0	0	515	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 118
 Hours of No Stability Class : 166
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

Stability Class: F $\Delta T / \Delta z$ 61->10 m ΔT With Substitution

Wind Sensor Height : 10 meter

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	3	2	1	0	0	0	6	4.29
NNE	4	1	0	0	0	0	5	3.80
NE	1	0	0	0	0	0	1	3.64
ENE	2	0	0	0	0	0	2	2.23
E	3	2	0	0	0	0	5	4.07
ESE	1	1	0	0	0	0	2	3.66
SE	4	11	0	0	0	0	15	5.21
SSE	6	21	1	0	0	0	28	4.92
S	5	13	3	0	0	0	21	5.25
SSW	4	24	0	0	0	0	28	4.96
SW	17	15	0	0	0	0	32	3.88
WSW	26	13	0	0	0	0	39	3.86
W	19	21	1	0	0	0	41	4.27
WNW	9	11	0	0	0	0	20	4.08
NW	6	5	0	0	0	0	11	3.85
NNW	2	2	0	0	0	0	4	3.66
Total	112	142	6	0	0	0	260	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 118
 Hours of No Stability Class : 166
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

Wind Sensor Height : 10 meter

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	2	0	0	0	0	0	2	2.99
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	1	0	0	0	0	0	1	2.89
ESE	1	0	0	0	0	0	1	2.68
SE	4	5	0	0	0	0	9	4.45
SSE	3	14	0	0	0	0	17	4.88
S	10	15	0	0	0	0	25	4.25
SSW	9	9	0	0	0	0	18	3.68
SW	25	5	0	0	0	0	30	3.17
WSW	34	14	0	0	0	0	48	3.55
W	31	6	0	0	0	0	37	3.37
WNW	14	5	0	0	0	0	19	3.46
NW	1	1	0	0	0	0	2	3.94
NNW	1	0	0	0	0	0	1	1.89
Total	136	74	0	0	0	0	210	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 118
 Hours of No Stability Class : 166
 Total hours of observation : 2208

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

Wind Sensor Height : 10 meter

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	33	28	16	15	0	0	92	7.15
NNE	18	43	77	42	3	0	183	9.85
NE	8	60	92	28	0	0	188	9.36
ENE	7	50	69	11	0	0	137	8.75
E	10	46	29	0	0	0	85	6.89
ESE	11	31	7	1	0	0	50	6.03
SE	16	52	5	4	0	0	77	6.11
SSE	32	65	14	2	1	0	114	5.45
S	30	74	12	2	4	1	123	6.21
SSW	30	82	31	6	1	0	150	6.58
SW	78	91	18	2	0	0	189	4.98
WSW	94	95	21	3	0	0	213	4.89
W	76	87	12	2	0	0	177	4.87
WNW	45	76	5	1	1	0	128	4.94
NW	26	44	13	3	0	0	86	5.81
NNW	17	37	32	11	1	0	98	8.11
Total	531	961	453	133	11	1	2090	

Hours of Calm : 0
 Hours of varying Wind Direction : 0
 Hours of Missing Data for All : 118
 Hours of No Stability Class : 166
 Total hours of observation : 2208

TABLE 8

JOINT FREQUENCY DISTRIBUTION

BY QUARTER 1995

(BATCH RELEASES)

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

Stability Class: A $\Delta T / \Delta z$ 61->10 m Delta T With Substitution

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 : 10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

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	4.38
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 : 10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

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	1	0	0	1	14.57
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	1	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 : 10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

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	3	0	0	3	16.93
NNE	0	1	0	0	0	0	1	5.92
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	1	0	0	0	0	1	4.13
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	2	0	3	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 : 10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

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	2	0	0	0	0	2	6.84
NNW	0	0	1	0	0	0	1	9.27
Total	0	2	1	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 : 10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

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 : 10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

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 : 10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 1- 1 01:00 to 95- 4- 1 00:00

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

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	4	0	0	4	16.34
NNE	0	1	0	0	0	0	1	5.92
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	4.38
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	4.13
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	2	0	0	0	0	2	6.84
NNW	0	0	1	0	0	0	1	9.27
Total	0	5	1	4	0	0	10	

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 : 10

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

Stability Class: A $\Delta T / \Delta z$ 61->10 m ΔT With Substitution

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 : 20

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

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 : 20

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

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	1	0	0	0	0	1	4.60
W	0	1	0	0	0	0	1	4.96
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	2	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 : 20

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

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	1	3	0	0	0	0	4	4.92
ESE	0	2	0	0	0	0	2	5.97
SE	0	2	0	0	0	0	2	6.02
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	2	0	0	0	2	9.65
WNW	0	1	0	0	0	0	1	6.34
NW	0	0	2	0	0	0	2	8.20
NNW	0	0	0	0	0	0	0	0.00
Total	1	8	4	0	0	0	13	

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 : 20

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

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	1	0	0	0	0	1	5.44
SE	0	0	1	0	0	0	1	10.09
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	6.19
W	0	1	0	0	0	0	1	5.62
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 : 20

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00

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

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	1	0	0	0	0	0	1	3.89
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	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 : 20

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11
 Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00
 Stability Class: G delta T/ delta z 61->10 m Delta T With Substitution
 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 : 20

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 4- 1 01:00 to 95- 7- 1 00:00 ;

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

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	1	3	0	0	0	0	4	4.92
ESE	1	3	0	0	0	0	4	5.32
SE	0	2	1	0	0	0	3	7.38
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	2	0	0	0	0	2	5.40
W	0	2	2	0	0	0	4	7.47
WNW	0	1	0	0	0	0	1	6.34
NW	0	0	2	0	0	0	2	8.20
NNW	0	0	0	0	0	0	0	0.00
Total	2	13	5	0	0	0	20	

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 : 20

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

Stability Class: A $\Delta T / \Delta z$ 61->10 m Delta T With Substitution

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	1	0	0	1	13.88
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	1	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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

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	1	0	0	1	14.93
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	1	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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

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	1	0	0	1	16.21
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	1	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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

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	1	0	0	1	15.17
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	1	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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95- 7- 1 01:00 to 95-10- 1 00:00

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

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	4	0	0	4	15.05
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	4	0	0	4	

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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10-1 00:00 to 95-12-31 23:00

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

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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

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	1	2	0	0	0	3	8.52
SSW	0	1	0	0	0	0	1	6.35
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	2	2	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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

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	2	0	0	0	2	8.71
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	2	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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11

Data Period : 95-10- 1 00:00 to 95-12-31 23:00

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

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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 96-04-11
 Data Period : 95-10- 1 00:00 to 95-12-31 23:00
 Stability Class:ALL delta T/ delta z 61->10 m Delta T With Substitution
 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	1	4	0	0	0	5	8.59
SSW	0	1	0	0	0	0	1	6.35
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	2	4	0	0	0	6	

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 : 6