

VIRGIL C. SUMMER
JENKINSVILLE, SOUTH CAROLINA

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT
VIRGIL C. SUMMER NUCLEAR STATION
FOR THE OPERATING PERIOD
JANUARY 1, 2001 - DECEMBER 31, 2001

APRIL 2002



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ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

JANUARY – DECEMBER, 2001

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 1 through 5 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 6. There were no abnormal releases for the period. A summary of the meteorological data for 2001 is presented in Section G and Tables 7 and 8. There were no changes made to the Offsite Dose Calculation Manual (ODCM) during the 12-month period. Section I gives a summary of oil incineration during the year.

A. Supplemental Information

Regulatory limits for doses, dose rate and effluent concentration limits presented in Supplemental Information are from the Virgil C. Summer Nuclear Station ODCM 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 1 and 2. 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.

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C. Liquid Effluents

Liquid effluents are summarized in Tables 3 and 4. Estimated total errors are expressed as in Section B above.

D. Solid Waste Shipments

Solid waste shipments are summarized in Table 5. Curie content of radioactive waste packages is determined by dose rates and/or gamma spectroscopy analysis of samples. The total error for each type of Curie content determination is conservatively estimated to be the sum of a 15% systematic error and a 20% photon response error for the detector used.

E. Radiological Impact on Man

Potential doses to the maximum exposed individual in the unrestricted area were calculated using measured plant gaseous effluents and meteorological data in accordance with the Offsite Dose Calculation Manual. The source term involved one (1) waste gas decay tank (WGDT) release, 4.1 days of 6-inch Reactor Building purge releases, 20 days of 36-inch Reactor Building purge releases and a continuous 12-month Main Plant vent release. Oil incineration was run for 4.3 hours in 2001. Doses are summarized in Table 6. The total activities released are presented in Tables 1 and 2. The highest quarterly air doses to the maximum exposed individual due to noble gases were $9.93\text{E-}5$ and $3.56\text{E-}5$ mrad for gamma and beta, respectively, during the second quarter. The maximum quarterly organ dose attributed to the releases was $1.51\text{E-}04$ mrem for the first quarter. Cumulative annual dose was $9.93\text{E-}5$ mrad, $3.56\text{E-}5$ mrad and $1.52\text{E-}4$ 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 297 Waste Monitor Tank batch releases, 36 Condensate Backwash Receiver Tank batch releases, (two) 2 NaOH batch releases, 8.61 days of Steam Generator Blowdown release and a continuous

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Turbine Building Sump release.

Doses are summarized in Table 6 and total radioactivity released is described in Tables 3 and 4. The highest quarterly total body dose to the maximally exposed individual due to the release of radioactive liquid was $2.17\text{E-}3$ mrem during the fourth quarter. The highest organ dose was $2.19\text{E-}3$ mrem to the gastro-intestinal tract / lower large intestine (GI-LLI) for the fourth quarter. Cumulative annual doses for the hypothetical maximally exposed individual were $3.96\text{E-}3$ mrem for the total body and $4.71\text{E-}3$ mrem for the GI-LLI (maximum annual organ). The GI-LLI was the maximum exposed organ for all four quarters.

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. Quarterly thermoluminescent dosimetry data from four (4) monitoring locations within the site boundary and eight (8) locations around the site boundary perimeter were analyzed and compared with respective pre-operational background and previous year history. Results showed that 2001 quarterly dose rates did not differ significantly from the pre-operational or 2000 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 $4.67\text{E-}6$ and $1.67\text{E-}6$ mrad for gamma and beta, respectively.

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

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F. Abnormal Releases

During 2001, the plant had no abnormal releases.

G. Meteorology

The meteorology data for 2001 is summarized in Table 7, by quarter. The data are shown as joint frequency distributions of wind direction and speed by atmospheric stability class.

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 90.2%. Primary variable recovery rates were as follows: wind direction (10 m) - 90.4%, wind speed (10 m) - 91.5%, and differential temperature (61 - 10 m) - 95.0%.

H. Offsite Dose Calculation Manual

The Virgil C. Summer Nuclear Station (VCSNS) Offsite Dose Calculation Manual (ODCM) was not revised during the affected 12-month period.

I. Oil Incineration

Oil incineration had two periods of operation, 12-06-01 for 2.1 hours and 12-12-01 for 2.2 hours during 2001. No measurable activity was released during these 4.3 hours of incineration.

J. Offsite Dose Calculation Manual Reportable Incidences

There were no reportable effluent incidences during this reporting period.

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Supplemental Information

1. Regulatory Limits:

a. Fission and Activation Gases:

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

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

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

c. Liquid Effluents:

The dose or dose commitment to an individual from radioactive materials in liquid effluents released 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. Dose Rate and Effluent Concentration Limits:

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).

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Supplemental Information

- 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).

- 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 2, 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

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5. Batch Releases:

a. Gaseous:

1. Number of batch releases: 1
2. Total time period for batch releases: 278 min
3. Maximum time period for a batch release: 278 min
4. Average time period for a batch release: 278 min
5. Minimum time period for a batch release: 278 min

b. Liquid:

1. Number of batch releases:

123 For first quarter, 2001
67 For second quarter, 2001
63 For third quarter, 2001
82 For fourth quarter, 2001
2. Total time period for batch releases:

8.76E+3 min. for first quarter, 2001
4.80E+3 min. for second quarter, 2001
4.83E+3 min. for third quarter, 2001
6.45E+3 min. for fourth quarter 2001
3. Maximum time period for a batch release:

1.20E+2 min. for first quarter, 2001
8.60E+1 min. for second quarter, 2001
8.20E+1 min. for third quarter, 2001
8.60E+1 min. for fourth quarter, 2001

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4. Average time period for batch releases:

7.18E+1 min. for first quarter, 2001
7.27E+1 min. for second quarter, 2001
7.66E+1 min. for third quarter, 2001
7.87E+1 min. for fourth quarter, 2001
 5. Minimum time period for a batch release:

4.00E+0 min. for first quarter, 2001
1.00E+0 min. for second quarter, 2001
7.00E+1 min. for third quarter, 2001
7.20E+1 min. for fourth quarter, 2001
 6. Average stream flow during periods of release of effluent into a flowing stream for 2001:

5.15E+6 gpm for first quarter, 2001
7.87E+6 gpm for second quarter, 2001
8.76E+6 gpm for third quarter, 2001
4.85E+6 gpm for fourth quarter, 2001
6. Abnormal Releases:
- a. Gaseous:
 1. Number of releases: 0
 2. Total activity released: 0
 - b. Liquid:
 1. Number of releases: 0
 2. Total activity released: 0

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Table 1
Gaseous Effluents Summation of All Releases

	UNITS	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	2001 TOTAL	EST. ERROR %
A. Fission & Activation Gases							
1. Total release	Ci	0.00E+00	5.63E-02	0.00E+00	0.00E+00	5.63E-02	28.5
2. Average release rate	uCi / sec	0.00E+00	7.17E-03	0.00E+00	0.00E+00	7.17E-03	
3. Percent ODCM Qtr. gamma air dose limit	%	0.00E+00	1.99E-03	0.00E+00	0.00E+00	N/A	
4. Percent ODCM annual gamma air dose limit	%	0.00E+00	9.93E-04 *	9.93E-04 *	9.93E-04 *	9.93E-04 *	
5. Percent ODCM Qtr. beta air dose limit	%	0.00E+00	3.56E-04	0.00E+00	0.00E+00	N/A	
6. Precent ODCM annual beta air dose limit	%	0.00E+00	1.78E-04 *	1.78E-04 *	1.78E-04 *	1.78E-04 *	
B. Iodines							
1. Total iodine - 131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	N/A
2. Average release rate	uCi / sec	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
C. Particulates							
1. Particulates with half - lifes > 8 days	Ci	9.00E-06	2.06E-06	4.65E-06	2.92E-06	1.86E-05	80.1
2. Average release rate	uCi / sec	1.16E-06	2.63E-07	5.85E-07	3.68E-07	5.91E-07	
3. Gross alpha radioactivity	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
D. Tritium							
1. Total release	Ci	2.70E-01	1.03E-03	0.00E+00	0.00E+00	2.71E-01	48.8
2. Average release rate	uCi / sec	3.48E-02	1.31E-04	0.00E+00	0.00E+00	8.59E-03	
E. Organ Dose (from B,C,and D)							
1. Percent ODCM Qtr. organ dose limit	%	2.02E-03	7.24E-06	0.00E+00	0.00E+00	N/A	
2. Percent ODCM annual organ dose limit	%	1.01E-03	1.01E-03	1.01E-03	1.01E-03 *	1.01E-03 *	

* Cumulative

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TABLE 2
GASEOUS EFFLUENTS -- GROUND-LEVEL RELEASES

Nuclides Released	Units	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	0	0	0	0	0
Krypton-85m	CI	0	0	0	0	0	0	0	0	0	0
Krypton-87	CI	0	0	0	0	0	0	0	0	0	0
Krypton-88	CI	0	0	0	0	0	0	0	0	0	0
Xenon-133	CI	0	3.01E-03	0	0	3.01E-03	0	0	0	0	0
Xenon-135	CI	0	0	0	0	0	0	0	0	0	0
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	5.33E-02	0	0	5.33E-02	0	0	0	0	0
Unidentified: None	CI	0	0	0	0	0	0	0	0	0	0
Total for Period	CI	0	5.63E-02	0	0	5.63E-02	0	0	0	0	0
2 Iodines and other halogens											
Iodine-131	CI	0	0	0	0	0	0	0	0	0	0
Iodine-132	CI	0	0	0	0	0	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
Unidentified: None	CI	0	0	0	0	0	0	0	0	0	0
Total for Period	CI	0	0	0	0	0	0	0	0	0	0
3 Particulates											
Chromium-51	CI	0	0	0	0	0	0	0	0	0	0
Manganese-54	CI	0	0	0	0	0	0	0	0	0	0
Cobalt-60	CI	5.15E-07	0	0	0	5.15E-07	0	0	0	0	0
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
Niobium-95	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
Be-7	CI	0	2.06E-06	4.65E-06	2.92E-06	9.63E-06	0	0	0	0	0
Other: Co-58	CI	8.48E-06	0	0	0	8.48E-06	0	0	0	0	0
Unidentified: None	CI	0	0	0	0	0	0	0	0	0	0
Total for Period	CI	9.00E-06	2.06E-06	4.65E-06	2.92E-06	1.86E-05	0	0	0	0	0

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**TABLE 3
Liquid Effluents Summation of All Releases**

	UNITS	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	2001 TOTAL	EST. ERROR %
A. Fission & Activation Products							
1. Total release	Ci	1.31E-02	7.13E-03	1.34E-02	9.72E-03	4.33E-02	18.34
2. Average diluted concentration	uCi/ml	3.37E-11	1.90E-11	3.07E-11	2.65E-11	2.77E-11	
B. Tritium							
1. Total release	Ci	1.57E+01	1.45E+02	1.06E+02	1.78E+02	5.04E+02	18.33
2. Average diluted concentration	uCi/ml	4.03E-08	3.86E-07	3.82E-07	4.85E-07	3.22E-07	
C. Dissolved and entrained gases							
1. Total release	Ci	4.72E-05	8.06E-04	7.37E-04	6.06E-04	2.20E-03	21.94
2. Average diluted concentration	uCi/ml	1.21E-13	2.15E-12	1.70E-12	1.65E-12	1.40E-12	
3. Percent ODCM limit	%	6.05E-08	1.07E-06	8.49E-07	8.27E-07	7.02E-07	
D. Gross alpha radioactivity							
1. Total release	Ci	0	0	0	0	0	N/A
E. ODCM limits (from A and B)							
1. Percent of ODCM Qtr total body limit	%	1.14E-02	4.46E-02	6.30E-02	1.45E-01	N/A	
2. Percent of ODCM annual total body limit	%	5.72E-03	2.80E-02 *	5.95E-02 *	1.32E-01 *	1.32E-01 *	
3. Percent of ODCM Qtr max. organ limit**	%	9.01E-03	1.49E-02	2.64E-02	4.38E-02	N/A	
4. Percent of ODCM annual max. organ limit**	%	4.51E-03	1.20E-02 *	2.52E-02 *	4.71E-02 *	4.71E-02 *	
E. Volume of waste released (undiluted)							
	liters	5.37E+07	1.76E+07	1.78E+07	1.35E+07	8.90E+07	3.0
F. Volume of dilution water							
	liters	3.90E+11	3.75E+11	4.34E+11	3.66E+11	1.57E+12	4.3

* Cumulative

** See page 3 for max. organ for each quarter and cumulative.

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**TABLE 4
LIQUID EFFLUENTS**

Nuclides Released*	Units	Continuous Mode					Batch Mode				
		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	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	6.12E-07	0	0	0	6.12E-07
Cesium-137	Ci	0	0	0	0	0	2.98E-05	1.02E-05	0	5.10E-06	4.51E-05
Iodine-131	Ci	0	0	0	0	0	0	7.74E-06	4.12E-06	0	1.19E-05
Cobalt-58	Ci	0	0	0	0	0	3.30E-03	5.91E-04	1.77E-03	1.47E-04	5.81E-03
Cobalt-60	Ci	0	0	0	0	0	1.12E-03	4.54E-04	3.29E-03	1.10E-03	5.96E-03
Iron-59	Ci	0	0	0	0	0	7.39E-05	7.18E-06	4.54E-06	0	8.56E-05
Zinc-65	Ci	0	0	0	0	0	3.48E-05	0	7.90E-05	0	1.14E-04
Manganese-54	Ci	0	0	0	0	0	2.42E-04	8.14E-05	8.01E-04	1.40E-04	1.26E-03
Chromium-51	Ci	0	0	0	0	0	2.33E-04	1.09E-05	0	0	2.44E-04
Zirconium-Niobium-95	Ci	0	0	0	0	0	2.38E-04	7.00E-05	5.19E-04	6.29E-06	8.33E-04
Technetium-99m	Ci	0	0	0	0	0	0	0	0	0	0
Barium-Lanthanum-140	Ci	0	0	0	0	0	0	0	0	0	0
Other: Be-7	Ci	0	0	0	0	0	0	0	6.44E-06	0	6.44E-06
Fe-55	Ci	0	0	0	0	0	6.53E-03	5.64E-03	6.68E-03	8.29E-03	2.71E-02
Co-57	Ci	0	0	0	0	0	7.68E-06	1.17E-06	3.91E-05	1.13E-06	4.91E-05
Ag-110m	Ci	0	0	0	0	0	7.64E-07	0	1.87E-05	3.24E-05	5.19E-05
Sn-113	Ci	0	0	0	0	0	1.40E-06	0	1.10E-05	0	1.24E-05
Sn-117m	Ci	0	0	0	0	0	3.57E-06	0	0	0	3.57E-06
Sb-124	Ci	0	0	0	0	0	7.59E-05	6.77E-07	0	0	7.66E-05
Sb-125	Ci	0	0	0	0	0	1.04E-03	2.51E-04	1.24E-04	0	1.42E-03
Te-125m	Ci	0	0	0	0	0	2.08E-04	0	0	0	2.08E-04
Unidentified: None	Ci	0	0	0	0	0	0	0	0	0	0
Total for Period (above)	Ci	0	0	0	0	0	1.31E-02	7.13E-03	1.33E-02	9.72E-03	4.33E-02
Xenon-133	Ci	0	0	0	0	0	4.41E-05	7.99E-04	7.36E-04	6.05E-04	2.18E-03
Xenon-135	Ci	0	0	0	0	0	3.03E-06	5.02E-06	1.06E-06	1.05E-06	1.02E-05
Other Xe-133m	Ci	0	0	0	0	0	0	2.50E-06	0	0	2.50E-06
Unidentified: None	Ci	0	0	0	0	0	0	0	0	0	0
Total Entrained Gases	Ci	0	0	0	0	0	4.71E-05	8.07E-04	7.37E-04	6.06E-04	2.20E-03

*Tritium not included. See Table 4 for tritium numbers

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Table 5
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

1.	Type of Waste	Unit	2001 Total	Est. Total Error, %
a.	Spent resins, filter sludges, evaporator bottoms, etc.	m3 Ci	6.87 7.87E+01	3.5E+01
b.	Dry compressible waste contaminated equip., etc.	m3 Ci	4.33 4.74E-01	3.5E+01
c.	Irradiated components, control rods, etc.	m3 Ci	0 0	N/A
d.	Other (describe)	m3 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	%	42.70
	Ni-63	%	40.4
	Co-60	%	10.0
	Mn-54	%	4.44
	Co-58	%	1.16
b.	Fe-55	%	58.0
	Ni-63	%	18.0
	Co-60	%	12.4
	Mn-54	%	4.59
	Co-58	%	3.12
	Nb-95	%	1.17
c.	None	%	N/A
d.	None	%	N/A

3A. Solid waste Disposition

Numbers of Shipments	Mode of Transportation	Destination
12*	Truck	Clive, Ut
2	Truck	Barnwell, S.C.

* Note: 12 are partial shipments of DAW from waste processor to Clive,Ut.

3B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
0	N/A	N/A

ANNUAL EFFLUENT AND WASTE DISPOSAL REPORT

JANUARY - DECEMBER 2000

*Virgil C. Summer Nuclear Station
South Carolina Electric & Gas*

**Table 6
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.	0.00E+00 mrad	0.00E+00 0.00E+00	9.93E-05 mrad	1.99E-03 9.93E-04 *	0.00E+00 mrad	0.00E+00 9.93E-04 *	0.00E+00 mrad	0.00E+00 9.93E-04 *	9.93E-05
1.2.3.1.a,b	10 mrad beta / qtr. 20 mrad beta / yr.	0.00E+00 mrad	0.00E+00 0.00E+00	3.56E-05 mrad	3.56E-04 1.78E-04 *	0.00E+00 mrad	0.00E+00 1.78E-04 *	0.00E+00 mrad	0.00E+00 1.78E-04 *	3.56E-05
1.2.4.1.a,b	7.5 mrem organ/qtr 15 mrem organ/yr.	1.51E-04 mrem**	2.02E-03 1.01E-03	5.43E-07 mrem**	7.24E-06 1.01E-03 *	0.00E+00 mrem**	0.00E+00 1.01E-03 *	0.00E+00 mrem**	0.00E+00 1.01E-03 *	1.52E-04
	LIQUID LIMITS									
1.1.3.1a,b	1.5 mrem / qtr. 3 mrem / yr.	1.72E-04 mrem	1.14E-02 5.72E-03	6.70E-04 mrem	4.48E-02 2.80E-02 *	9.45E-04 mrem	6.30E-02 5.95E-02 *	2.17E-03 mrem	1.45E-01 1.32E-01 *	3.96E-03
1.1.3.1a,b	5 mrem organ/qtr*** 10 mrem organ/yr.	4.51E-04 mrem	9.01E-03 4.51E-03	7.46E-04 mrem	1.49E-02 1.20E-02 *	1.32E-03 mrem	2.64E-02 2.52E-02 *	2.19E-03 mrem	4.38E-02 4.71E-02 *	4.71E-03

* Includes contribution from previous quarters

** Includes dose from all nuclides

*** See page 3 for max organ for each quarter

TABLE 7

JOINT FREQUENCY DISTRIBUTION

BY QUARTER FOR 2001

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Time Period : 1- 1- 1 00:00 to 1- 3-31 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	1	0	0	0	0	1	4.70
NNE	0	1	0	0	0	0	1	4.30
NE	3	2	2	1	0	0	8	7.12
ENE	0	2	2	2	3	1	10	14.24
E	0	0	1	5	0	0	6	14.54
ESE	0	1	1	0	0	0	2	7.60
SE	0	1	0	0	0	0	1	4.99
SSE	0	0	0	0	0	0	0	0.00
S	0	1	0	0	0	0	1	4.75
SSW	0	2	0	1	0	0	3	9.66
SW	2	7	1	0	0	0	10	6.16
WSW	0	5	11	2	0	0	18	9.77
W	0	1	5	1	0	0	7	10.10
WNW	0	3	3	1	0	0	7	8.86
NW	0	0	0	5	0	0	5	16.06
NNW	1	0	0	0	2	0	3	15.40

Total 6 27 26 18 5 1 83

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 29
 Hours of No Stability Class : 27
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Time Period : 1- 1- 1 00:00 to 1- 3-31 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	2	2	1	0	1	0	6	7.51
NNE	0	1	0	0	0	0	1	5.45
NE	1	3	3	1	0	0	8	7.74
ENE	1	5	2	0	0	2	10	10.32
E	0	2	2	1	0	0	5	9.65
ESE	0	3	0	1	0	0	4	8.52
SE	0	0	1	0	0	0	1	8.45
SSE	1	2	0	0	0	0	3	5.44
S	0	1	1	0	0	0	2	7.47
SSW	0	2	4	0	0	0	6	8.03
SW	0	5	2	0	0	0	7	6.97
WSW	0	4	6	0	0	0	10	8.77
W	0	3	8	3	0	0	14	10.16
WNW	0	3	2	0	0	0	5	7.43
NW	0	1	4	4	1	0	10	12.74
NNW	0	3	3	1	0	1	8	12.03
Total	5	40	39	11	2	3	100	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 29
 Hours of No Stability Class : 27
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 1- 1 00:00 to 1- 3-31 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	2	3	0	0	7	11.70
NNE	2	2	0	6	0	0	10	11.83
NE	3	0	3	2	0	0	8	9.03
ENE	1	1	4	4	0	2	12	14.37
E	0	1	3	1	0	0	5	9.73
ESE	0	0	1	0	0	0	1	11.52
SE	0	1	2	0	0	0	3	7.97
SSE	0	4	2	0	0	0	6	7.50
S	0	1	1	0	0	0	2	8.44
SSW	0	4	3	0	0	0	7	7.42
SW	0	1	6	0	0	0	7	9.46
WSW	1	4	7	0	0	0	12	7.87
W	0	7	5	2	0	0	14	8.36
WNW	1	6	0	0	0	0	7	5.26
NW	1	0	7	0	0	0	8	9.32
NNW	0	0	3	1	1	0	5	14.07
Total	10	33	49	19	1	2	114	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 29
 Hours of No Stability Class : 27
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 1- 1 00:00 to 1- 3-31 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	5	20	15	8	2	0	50	8.73
NNE	2	13	29	23	1	0	68	11.30
NE	11	16	46	33	0	0	106	10.56
ENE	4	15	35	18	0	3	75	10.77
E	3	17	13	6	0	2	41	9.61
ESE	2	13	1	2	0	0	18	7.14
SE	0	14	10	1	0	0	25	7.83
SSE	1	8	20	1	0	0	30	8.58
S	3	8	7	0	0	0	18	7.13
SSW	1	15	16	5	0	0	37	9.08
SW	7	13	23	0	0	0	43	7.26
WSW	10	22	28	1	0	0	61	7.22
W	6	23	18	4	0	0	51	7.79
WNW	12	25	9	0	0	0	46	5.74
NW	6	22	18	2	0	0	48	7.02
NNW	10	16	18	5	0	0	49	7.91
Total	83	260	306	109	3	5	766	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 29
 Hours of No Stability Class : 27
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Observation Period : 1- 1- 1 00:00 to 1- 3-31 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	9	17	9	1	0	0	36	6.24	
NNE	8	20	10	2	0	0	40	6.70	
NE	12	23	5	0	0	0	40	5.23	
ENE	3	10	5	0	0	0	18	6.70	
E	5	15	4	1	0	0	25	6.03	
ESE	4	10	2	0	0	0	16	5.67	
SE	4	14	1	0	0	0	19	4.97	
SSE	13	8	4	0	0	0	25	4.99	
S	8	5	7	1	0	0	21	6.27	
SSW	13	21	8	3	0	0	45	6.28	
SW	23	60	16	0	0	0	99	5.83	
WSW	27	48	6	0	0	0	81	4.78	
W	25	37	8	0	0	0	70	5.08	
WNW	14	16	0	0	0	0	30	4.38	
NW	6	21	0	0	0	0	27	5.51	
NNW	3	16	5	0	0	0	24	6.75	

Total 177 341 90 8 0 0 616

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 29
 Hours of No Stability Class : 27
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

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

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	1	0	5	0	0	0	6	8.25
NNE	7	5	1	0	0	0	13	4.51
NE	7	4	1	0	0	0	12	4.32
ENE	6	5	0	0	0	0	11	3.81
E	3	2	0	0	0	0	5	3.78
ESE	1	0	0	0	0	0	1	2.59
SE	6	12	0	0	0	0	18	4.58
SSE	7	12	0	0	0	0	19	4.99
S	9	22	2	0	0	0	33	4.87
SSW	11	15	2	0	0	0	28	4.75
SW	11	18	0	0	0	0	29	4.11
WSW	17	6	0	0	0	0	23	3.72
W	19	16	0	0	0	0	35	4.02
WNW	12	8	0	0	0	0	20	3.72
NW	8	5	0	0	0	0	13	4.05
NNW	5	6	0	0	0	0	11	4.39

Total 130 136 11 0 0 0 277

Hours of Calm' : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 2
 Hours of Missing Data for All : 29
 Hours of No Stability Class : 27
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 1- 1 00:00 to 1- 3-31 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	2.64
NNE	1	2	0	0	0	0	3	4.50
NE	3	1	0	0	0	0	4	3.52
ENE	5	2	0	0	0	0	7	3.36
E	1	0	0	0	0	0	1	2.92
ESE	1	0	0	0	0	0	1	3.32
SE	8	2	0	0	0	0	10	3.10
SSE	11	10	0	0	0	0	21	4.20
S	3	16	0	0	0	0	19	4.78
SSW	10	3	0	0	0	0	13	3.43
SW	20	7	0	0	0	0	27	3.25
WSW	25	1	0	0	0	0	26	2.89
W	14	5	0	0	0	0	19	3.82
WNW	14	3	0	0	0	0	17	3.47
NW	4	0	0	0	0	0	4	2.64
NNW	1	0	0	0	0	0	1	2.22
Total	123	52	0	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 : 29
 Hours of No Stability Class : 27
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 1- 1 00:00 to 1- 3-31 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	20	41	32	12	3	0	108	7.85
NNE	20	44	40	31	1	0	136	9.09
NE	40	49	60	37	0	0	186	8.53
ENE	20	40	48	24	3	8	143	9.88
E	12	37	23	14	0	2	88	8.53
ESE	8	27	5	3	0	0	43	6.65
SE	18	44	14	1	0	0	77	5.72
SSE	33	44	26	1	0	0	104	6.02
S	23	54	18	1	0	0	96	5.71
SSW	35	62	33	9	0	0	139	6.66
SW	63	111	48	0	0	0	222	5.74
WSW	80	90	58	3	0	0	231	5.83
W	64	92	44	10	0	0	210	6.17
WNW	53	64	14	1	0	0	132	5.04
NW	25	49	29	11	1	0	115	7.23
NNW	20	41	29	7	3	1	101	8.05
Total	534	889	521	165	11	11	2131	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data for All : 29
 Hours of No Stability Class : 27
 Total hours of observation : 2160

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 4- 1 00:00 to 1- 6-30 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	4	0	0	0	0	0	4	3.23
NNE	0	1	0	0	0	0	1	6.12
NE	7	1	2	0	0	0	10	4.95
ENE	0	2	1	0	0	0	3	6.94
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	1	0	0	0	1	8.02
S	0	2	0	0	0	0	2	6.04
SSW	0	2	0	2	0	0	4	9.89
SW	0	10	3	1	0	0	14	7.71
WSW	2	23	14	0	0	0	39	7.32
W	0	12	21	2	0	0	35	8.81
WNW	0	2	1	0	0	0	3	7.44
NW	0	1	0	0	0	0	1	7.80
NNW	0	1	0	0	0	0	1	7.60
Total	13	57	43	5	0	0	118	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 427
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 4- 1 00:00 to 1- 6-30 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	2	1	0	0	0	0	3	3.95
NNE	3	2	0	0	0	0	5	4.32
NE	2	5	3	1	0	0	11	6.49
ENE	0	3	0	0	0	0	3	6.13
E	0	2	2	1	0	0	5	9.32
ESE	0	3	1	0	0	0	4	7.92
SE	0	1	0	0	0	0	1	7.31
SSE	0	3	3	0	0	0	6	6.92
S	0	3	3	0	0	0	6	7.77
SSW	0	2	3	1	0	0	6	9.96
SW	1	14	6	0	0	0	21	6.81
WSW	2	13	8	0	0	0	23	6.76
W	0	7	6	1	0	0	14	8.41
WNW	0	2	0	0	0	0	2	5.55
NW	0	2	0	0	0	0	2	6.42
NNW	0	2	0	0	0	0	2	5.65
Total	10	65	35	4	0	0	114	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 427
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 4- 1 00:00 to 1- 6-30 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	0	0	0	0	2	4.28
NNE	2	5	0	0	0	0	7	5.30
NE	5	8	4	0	0	0	17	5.69
ENE	1	6	2	1	0	0	10	7.04
E	0	4	3	1	0	0	8	8.48
ESE	1	1	3	0	0	0	5	7.90
SE	0	1	1	0	0	0	2	7.72
SSE	0	7	1	0	0	0	8	6.59
S	0	6	2	0	0	0	8	6.97
SSW	1	4	2	0	0	0	7	6.43
SW	2	8	5	0	0	0	15	6.68
WSW	1	18	5	0	0	0	24	6.05
W	0	5	1	0	0	0	6	6.39
WNW	0	2	0	2	1	0	5	13.51
NW	1	4	1	0	0	0	6	5.13
NNW	1	4	0	0	0	0	5	5.83
Total	16	84	30	4	1	0	135	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 427
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 4- 1 00:00 to 1- 6-30 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	12	20	13	3	1	0	49	6.77
NNE	9	25	7	4	0	0	45	6.74
NE	11	24	22	13	1	0	71	8.66
ENE	3	19	26	13	0	0	61	10.08
E	4	29	25	5	0	0	63	8.33
ESE	2	18	10	0	0	0	30	6.60
SE	3	14	1	0	0	0	18	5.92
SSE	3	10	3	0	0	0	16	5.96
S	3	16	5	0	0	0	24	6.34
SSW	4	15	13	1	0	0	33	7.30
SW	10	28	11	0	0	0	49	6.25
WSW	13	32	4	0	0	0	49	5.22
W	7	25	10	1	0	0	43	6.27
WNW	6	12	2	0	0	0	20	5.31
NW	9	8	3	2	1	0	23	6.09
NNW	7	7	1	2	0	0	17	6.32
Total	106	302	156	44	3	0	611	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 427
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Observation Period : 1- 4- 1 00:00 to 1- 6-30 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	1	1	0	0	0	0	2	4.79
NNE	4	7	1	0	0	0	12	5.00
NE	2	1	2	1	0	0	6	8.00
ENE	2	5	1	0	0	0	8	4.95
E	0	3	2	0	0	0	5	7.06
ESE	5	9	5	0	0	0	19	5.67
SE	0	7	0	0	0	0	7	5.17
SSE	2	5	1	0	0	0	8	5.86
S	19	29	6	0	0	0	54	5.16
SSW	18	37	9	0	0	0	64	5.48
SW	34	83	1	0	0	0	118	4.74
WSW	34	31	1	0	0	0	66	4.04
W	20	18	1	0	0	0	39	4.28
WNW	22	10	0	0	0	0	32	3.52
NW	9	7	2	0	0	0	18	4.44
NNW	3	5	2	0	0	0	10	5.84
Total	175	258	34	1	0	0	468	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 73
 Hours of No Stability Class : 427
 Total hours of observation : 2184

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19
 Data Period : 1- 1-29 13:00 to 1- 2-18 14:00
 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	2	4	2	1	1	0	10	9.15
NNE	1	0	7	0	0	0	8	9.97
NE	2	4	20	10	0	0	36	11.10
ENE	1	0	12	3	0	0	16	10.23
E	0	5	4	0	0	0	9	7.88
ESE	0	3	0	0	0	0	3	6.68
SE	0	4	1	0	0	0	5	6.39
SSE	1	3	4	0	0	0	8	7.02
S	2	6	3	0	0	0	11	6.89
SSW	0	7	8	2	0	0	17	9.25
SW	1	3	17	0	0	0	21	8.55
WSW	2	7	9	0	0	0	18	7.16
W	0	6	1	1	0	0	8	7.53
WNW	1	2	2	0	0	0	5	6.50
NW	1	2	1	1	0	0	5	7.49
NNW	4	4	3	1	0	0	12	6.95
Total	18	60	94	19	1	0	192	

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 : 482

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 1-29 13:00 to 1- 2-18 14:00

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	4	2	0	0	0	0	6	4.20
NNE	4	2	1	0	0	0	7	4.52
NE	2	0	0	0	0	0	2	2.37
ENE	0	0	1	0	0	0	1	10.66
E	1	2	0	0	0	0	3	4.96
ESE	0	0	0	0	0	0	0	0.00
SE	2	5	0	0	0	0	7	5.03
SSE	5	2	1	0	0	0	8	4.50
S	4	1	3	1	0	0	9	6.86
SSW	4	5	3	3	0	0	15	7.60
SW	5	27	9	0	0	0	41	6.41
WSW	5	10	3	0	0	0	18	5.29
W	2	3	0	0	0	0	5	4.48
WNW	4	1	0	0	0	0	5	3.55
NW	1	1	0	0	0	0	2	2.87
NNW	1	4	2	0	0	0	7	6.82

Total 44 65 23 4 0 0 136

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 : 482

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 1-29 13:00 to 1- 2-18 14:00

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	3	0	0	0	3	9.57	
NNE	1	1	1	0	0	0	3	6.01	
NE	2	1	0	0	0	0	3	3.71	
ENE	0	0	0	0	0	0	0	0.00	
E	1	0	0	0	0	0	1	2.22	
ESE	0	0	0	0	0	0	0	0.00	
SE	2	4	0	0	0	0	6	4.63	
SSE	2	2	0	0	0	0	4	4.92	
S	1	8	2	0	0	0	11	5.71	
SSW	5	4	0	0	0	0	9	4.39	
SW	1	6	0	0	0	0	7	4.50	
WSW	3	0	0	0	0	0	3	3.03	
W	4	0	0	0	0	0	4	3.07	
WNW	3	2	0	0	0	0	5	3.43	
NW	4	1	0	0	0	0	5	3.08	
NNW	0	0	0	0	0	0	0	0.00	
Total	29	29	6	0	0	0	64		
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								:	482

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 1-29 13:00 to 1- 2-18 14:00

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	1	0	0	0	0	0	1	2.52
NNE	1	1	0	0	0	0	2	3.61
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	1	2	0	0	0	0	3	4.57
SSE	4	6	0	0	0	0	10	4.97
S	0	3	0	0	0	0	3	4.64
SSW	0	0	0	0	0	0	0	0.00
SW	4	0	0	0	0	0	4	2.24
WSW	5	0	0	0	0	0	5	2.67
W	3	0	0	0	0	0	3	3.14
WNW	2	0	0	0	0	0	2	2.29
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	21	12	0	0	0	0	33	

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 : 482

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 1-29 13:00 to 1- 2-18 14:00

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	8	6	6	2	1	0	23	7.73	
NNE	7	5	9	0	0	0	21	6.71	
NE	7	5	20	11	0	0	43	10.11	
ENE	1	1	17	5	0	0	24	10.35	
E	2	9	6	0	0	0	17	7.09	
ESE	0	4	0	0	0	0	4	6.46	
SE	5	15	2	0	0	0	22	5.33	
SSE	12	16	5	0	0	0	33	5.49	
S	7	19	9	1	0	0	36	6.38	
SSW	9	17	14	5	0	0	45	7.76	
SW	11	41	30	0	0	0	82	6.78	
WSW	15	17	20	0	0	0	52	6.31	
W	9	12	5	1	0	0	27	5.92	
WNW	10	6	2	0	0	0	18	4.28	
NW	6	4	4	1	0	0	15	5.78	
NNW	5	8	6	1	0	0	20	7.21	
Total	114	185	155	27	1	0	482		
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								:	482

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1- 2-26 15:00 to 1- 2-26 20:00

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	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 : 02-03-12

Data Period : 1- 2-26 15:00 to 1- 2-26 20:00

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 : 02-03-12

Data Period : 1- 2-26 15:00 to 1- 2-26 20:00

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 : 02-03-12

Data Period : 1- 2-26 15:00 to 1- 2-26 20:00

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	1	0	0	0	0	1	5.82
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 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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1- 2-26 15:00 to 1- 2-26 20:00

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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1- 2-26 15:00 to 1- 2-26 20:00

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	1	0	0	0	0	1	5.29
NNE	0	0	2	0	0	0	2	9.34
NE	0	1	0	0	0	0	1	5.03
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	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 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 : 02-03-12

Data Period : 1- 2-26 15:00 to 1- 2-26 20:00

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	1	0	0	0	0	1	5.34
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 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 : 6

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1- 2-26 15:00 to 1- 2-26 20:00

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	1	0	0	0	0	1	5.29
NNE	0	1	2	0	0	0	3	8.17
NE	0	1	0	0	0	0	1	5.03
ENE	0	1	0	0	0	0	1	5.34
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	4	2	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

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 5-29 18:00 to 1- 6- 2 20:00

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	1	1	0	0	0	2	8.70
W	0	0	4	0	0	0	4	10.21
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	5	0	0	0	6	
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	: 99							

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 5-29 18:00 to 1- 6- 2 20:00

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	2	0	0	0	2	9.34
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 : 99

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19
 Date Period : 1- 5-29 18:00 to 1- 6- 2 20:00
 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	1	0	0	0	0	0	1	3.50
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	1	0	0	0	0	1	7.82
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00

Total 1 1 0 0 0 0 2

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data : 0
 Hours of Missing Data for All : 0
 Hours of No Stability Class : 0
 Total hours of observation : 99

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 5-29 18:00 to 1- 6- 2 20:00

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	1	3	0	0	0	0	4	4.59
NNE	1	7	0	0	0	0	8	4.94
NE	4	2	0	0	0	0	6	3.77
ENE	1	2	2	0	0	0	5	7.06
E	1	3	2	0	0	0	6	6.39
ESE	0	1	0	0	0	0	1	5.44
SE	0	1	0	0	0	0	1	6.13
SSE	0	1	0	0	0	0	1	5.40
S	0	1	0	0	0	0	1	5.70
SSW	1	3	1	0	0	0	5	5.82
SW	0	5	0	0	0	0	5	6.35
WSW	0	4	1	0	0	0	5	6.73
W	0	3	1	0	0	0	4	6.90
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	9	36	7	0	0	0	52	

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 : 99

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 5-29 18:00 to 1- 6- 2 20:00

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	1	0	0	0	0	1	5.21
E	0	0	0	0	0	0	0	0.00
ESE	0	1	0	0	0	0	1	5.76
SE	0	0	0	0	0	0	0	0.00
SSE	0	1	1	0	0	0	2	8.07
S	4	3	1	0	0	0	8	4.60
SSW	0	4	0	0	0	0	4	5.93
SW	1	4	0	0	0	0	5	5.22
WSW	1	0	0	0	0	0	1	2.59
W	0	1	0	0	0	0	1	4.83
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	6	15	2	0	0	0	23	

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 : 99

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 5-29 18:00 to 1- 6- 2 20:00

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	1	0	0	0	0	0	1	3.57
ESE	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0.00
SSE	1	0	0	0	0	0	1	2.67
S	0	3	0	0	0	0	3	4.65
SSW	2	2	0	0	0	0	4	3.53
SW	1	0	0	0	0	0	1	2.79
WSW	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0.00
WNW	1	0	0	0	0	0	1	1.94
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00

Total 6 5 0 0 0 0 11

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 : 99

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19
 Data Period : 1- 5-29 18:00 to 1- 6- 2 20:00
 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	1	0	0	0	0	0	1	3.55	
SSW	0	0	0	0	0	0	0	0.00	
SW	1	0	0	0	0	0	1	3.16	
WSW	0	0	0	0	0	0	0	0.00	
W	1	0	0	0	0	0	1	2.33	
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	3	0	0	0	0	0	3		
Hours of Calm	:								0
Hours of Varying Wind Direction	:								0
Hours of Missing Data	:								0
Hours of Missing Data for All	:								0
Hours of No Stability Class	:								0
Total hours of observation	:								99

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 5-29 18:00 to 1- 6- 2 20:00

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	1	3	0	0	0	0	4	4.59
NNE	1	7	0	0	0	0	8	4.94
NE	5	2	0	0	0	0	7	3.73
ENE	1	3	2	0	0	0	6	6.75
E	2	3	2	0	0	0	7	5.98
ESE	0	2	0	0	0	0	2	5.60
SE	0	1	0	0	0	0	1	6.13
SSE	1	2	1	0	0	0	4	6.05
S	5	7	1	0	0	0	13	4.62
SSW	3	9	1	0	0	0	13	5.15
SW	3	9	0	0	0	0	12	5.31
WSW	1	5	4	0	0	0	10	7.23
W	1	5	5	0	0	0	11	7.58
WNW	1	0	0	0	0	0	1	1.94
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00

Total 25 58 16 0 0 0 99

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 : 99

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Observation Period : 1- 6- 8 23:00 to 1- 6- 9 01:00

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	0.00
NNE	0	0	0	0	0	0	0	0	0.00
NE	0	0	0	0	0	0	0	0	0.00
ENE	0	0	0	0	0	0	0	0	0.00
E	0	0	0	0	0	0	0	0	0.00
ESE	0	0	0	0	0	0	0	0	0.00
SE	0	0	0	0	0	0	0	0	0.00
SSE	0	0	0	0	0	0	0	0	0.00
S	0	0	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0	0.00
SW	0	0	0	0	0	0	0	0	0.00
WSW	0	0	0	0	0	0	0	0	0.00
W	0	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0	0.00
Total	0	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 : 3

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Time Period : 1- 6- 8 23:00 to 1- 6- 9 01:00

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 : 3

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Time Period : 1- 6- 8 23:00 to 1- 6- 9 01:00

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 : 3

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Time Period : 1- 6- 8 23:00 to 1- 6- 9 01:00

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	1	0	0	0	0	1	4.43
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 : 3

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 6- 8 23:00 to 1- 6- 9 01:00

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	1	0	0	0	0	1	4.20
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 : 3

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19
 Data Period : 1- 6- 8 23:00 to 1- 6- 9 01:00
 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	1	0	0	0	0	1	4.34
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 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 : 3

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Time Period : 1- 6- 8 23:00 to 1- 6- 9 01:00

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								:	3

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-19

Data Period : 1- 6- 8 23:00 to 1- 6- 9 01:00

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	1	0	0	0	0	1	4.34
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	1	0	0	0	0	1	4.20
WNW	0	1	0	0	0	0	1	4.43
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	3	0	0	0	0	3	

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

TABLE 8

JOINT FREQUENCY DISTRIBUTION

THIRD QUARTER FOR 2001

NO BATCH RELEASES

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1-12- 6 13:00 to 1-12- 6 16:00

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	2	0	0	0	0	2	6.93	
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	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	:								4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1-12- 6 13:00 to 1-12- 6 16:00

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	1	0	0	0	0	1	7.15
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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1-12- 6 13:00 to 1-12- 6 16:00

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	5.96
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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1-12- 6 13:00 to 1-12- 6 16:00

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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1-12- 6 13:00 to 1-12- 6 16:00

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 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 : 02-03-12
 Data Period : 1-12- 6 13:00 to 1-12- 6 16:00
 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 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 : 02-03-12

Data Period : 1-12- 6 13:00 to 1-12- 6 16:00

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 : 02-03-12

Data Period : 1-12- 6 13:00 to 1-12- 6 16:00

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	0	0	0	0	0	0	0.00
SSW	0	0	0	0	0	0	0	0.00
SW	0	3	0	0	0	0	3	7.00
WSW	0	1	0	0	0	0	1	5.96
W	0	0	0	0	0	0	0	0.00
WNW	0	0	0	0	0	0	0	0.00
NW	0	0	0	0	0	0	0	0.00
NNW	0	0	0	0	0	0	0	0.00
Total	0	4	0	0	0	0	4	

Hours of Calm : 0
 Hours of Varying Wind Direction : 0
 Hours of Missing Data 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 : 02-03-12

Data Period : 1-12-12 10:00 to 1-12-12 13:00

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 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 : 02-03-12

Data Period : 1-12-12 10:00 to 1-12-12 13:00

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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1-12-12 10:00 to 1-12-12 13:00

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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1-12-12 10:00 to 1-12-12 13:00

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	1	0	0	0	1	8.28
ENE	0	2	1	0	0	0	3	7.63
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	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 : 4

JOINT WIND FREQUENCY DISTRIBUTION BY STABILITY CLASS

SITE: V. C. SUMMER Nuclear Station UNIT 1

Report Date : 02-03-12

Data Period : 1-12-12 10:00 to 1-12-12 13:00

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 : 02-03-12

Data Period : 1-12-12 10:00 to 1-12-12 13:00

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 : 02-03-12

Data Period : 1-12-12 10:00 to 1-12-12 13:00

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 : 02-03-12

Data Period : 1-12-12 10:00 to 1-12-12 13:00

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	1	0	0	0	1	8.28
ENE	0	2	1	0	0	0	3	7.63
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	2	2	0	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