

ANNUAL
EFFLUENT AND WASTE DISPOSAL REPORT

1997

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NOS. 1 & 2
DOCKET NOS. 50-03 & 50-247
MAY, 1998

May, 1998

Re: Indian Point Unit Nos. 1 & 2
Docket Nos. 50-03 & 50-247

ANNUAL
EFFLUENT AND WASTE DISPOSAL REPORT
1997

FACILITY: Indian Point Station (Units 1 and 2)

LICENSEE: Consolidated Edison Company of New York, Inc.

This information is provided pursuant to 10 CFR 50.36a(a)(2) and employs certain guidance as set forth in Regulatory Guide 1.21, Revision 1. The numbered sections of this part of the report reference corresponding sections of the subject Regulatory Guide, pages 1.21-10 through 1.21-12. This Annual Effluent and Waste Disposal Report for Indian Point Units 1 and 2 covers discharges for 1997. The New York Power Authority, licensee of Indian Point Unit 3, will issue separate reports.

A. Supplemental Information and Definition

1. Regulatory Limits

Indian Point Units 1 and 2 are presently subject to radioactive waste release specifications that are set forth in Appendix A to Facility Operation Licenses DPR-5 and DPR-26, entitled "Technical Specifications and Bases" (Indian Point Unit No. 2 Technical Specification Section 3.9 "Radioactive Effluents").

2. Maximum Permissible Concentrations (MPC)

Gaseous Effluents

Concentrations of gaseous discharges in unrestricted areas are computed by producing release rate (Q) and the annual average dispersion factor (X/Q) at the most restrictive site boundary location. The mixture percent of MPC* is obtained by adding the effects of each nuclide; the effect of each nuclide is, in turn, the quotient of its computed concentration and its MPC.

* 10 CFR 20 Appendix B Table 2 Col 1 (Pre-1994).

Liquid Effluents

All liquid discharges from Indian Point are made through a common discharge canal with a minimum of 100,000 gpm dilution water. The isotopic content, excluding tritium and dissolved noble gas, of continuous and batch mode discharges of liquid effluent for each calendar quarter has been added and a weighted average fraction of MPC* has been calculated for this isotopic mixture. The percent of the applicable limit reported in Section C of this document is the percent of MPC concentration of the time-average diluted concentration for each quarter.

The tritium limit has been established in the same manner as the limits for other isotopes in

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liquid effluents. A derived MPC of 2×10^{-4} uCi/ml for dissolved noble gases has been conservatively adopted for liquid effluents due to the swimming pathway.

* 10 CFR 20 Appendix B Table 2 Col 2 (Pre-1994).

3. Average Energy

The average energy (\bar{E})* of the radionuclide mixture in releases of fission and activation gases for the four quarters in 1997 are provided below:

	1st <u>Quarter</u>	2nd <u>Quarter</u>	3rd <u>Quarter</u>	4th <u>Quarter</u>
Beta	0.203	0.193	0.181	0.120
Gamma	0.077	0.050	0.177	0.137

* Values in Mev/Dis.

4. Measurements and Approximations of Total Radioactivity

a. Fission and Activation Gases

Analysis of effluent gases was performed in compliance with the requirements of Table 4.10-3 of the Technical Specifications. In the case of isolated tanks (batch releases), the total activity discharged was based on an isotopic analysis of each batch and the volume of gas in that batch.

Vapor Containment ventilation discharges have generally been treated as batch releases. At least one complete isotopic concentration analysis of containment air was performed per week. This was applied to gross analysis of the ventilation air performed prior to each discharge. This information was combined with the volume of air in each discharge to calculate the radionuclide composition of these discharges.

The continuous discharges were based on the isotopic content determined from weekly samples of ventilation air. This information was combined with total air volume discharged by this route. The accumulation of batch and containment ventilation releases was then used to determine total discharges.

b.&c Iodines and Particulates

Iodine-131 and particulate releases are quantified by collecting a continuous sample of ventilation air on a potassium-iodide impregnated activated charcoal cartridge and a glass-fiber filter paper. These samples are obtained as required by Table 4.10-3 of the Technical Specifications. The concentration of isotopes found by analysis of these samples was combined with the volume of air discharged during the sampling period to calculate the amount of activity discharged.

For other iodine isotopes the ratio of each isotope to Iodine-131 was determined by a monthly 24-hour composite sample. This ensures the proper identification of the

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short-lived I-133 and I-135 isotopes.

d. Liquid Effluents

A sample of each batch discharge was taken and an isotopic analysis was performed in compliance with the requirements specified in Table 4.10-1 of the Technical Specifications. This isotopic concentration data was combined with information of volume discharged to determine the amount of each isotope discharged in the period.

Samples of continuous discharges have been taken and analyzed in compliance with Table 4.10-1 of the Technical Specifications. This concentration data was combined with the volume discharged to calculate the amount of each isotope discharged.

The above concentrations were used in conjunction with the actual dilution flow to calculate the fraction of maximum permissible concentration.

e. Error Estimates

The total error estimate is the geometric sum of counting uncertainty and sampling uncertainty, expressed as a percent. Sampling uncertainties are considered independent of activity level and largely fixed in value. However, counting uncertainties are activity level dependent. The percent counting uncertainty is the quotient of the 1 sigma (Poisson) uncertainty and the activity measured. This percent uncertainty is maximized at low activity levels, specifically at the lower limit of detection (LLD). It can be shown that the percent uncertainty at LLD is no more than 35%. But as most positive samples are detected at several multiples of LLD, at least, the percent uncertainty is more likely to be in the 8% to 12% range. Adding a consideration of fixed uncertainty of sampling, the total uncertainty is estimated to be 15%.

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5. Batch Releases:

a.	Liquid	1st <u>Qtr.</u>	2nd <u>Qtr.</u>	3rd <u>Qtr.</u>	4th <u>Qtr.</u>	
	Number of Batch Releases	32	61	40	5	
	Total Time Period of Batch Releases (Minutes)	2172	10531	2843	344	
	Maximum Time Period of Batch Release (Minutes)	129	4430	100	90	
	Average Time Period of Batch Release (Minutes)	68	173	71	69	
	Minimum Time Period of Batch Release (Minutes)	11	15	30	50	
	Average Stream Flow (cfs)	1995	--	--	--	22400
		1996	33467	36467	14293	n/a(1)
		1997	n/a(1)	n/a(1)	n/a(1)	n/a(1)

(1) This information obtained from the US Department of the Interior, is not available at this time.

b.	Gaseous	1st <u>Qtr.</u>	2nd <u>Qtr.</u>	3rd <u>Qtr.</u>	4th <u>Qtr.</u>
	Number of Batch Releases	219	151	269	156
	Total Time Period of Batch Releases (Minutes)	21348	22719	23864	29287
	Maximum Time Period of Batch Release (Minutes)	1929	3215	6165	5230
	Average Time Period of Batch Release (Minutes)	97	150	89	188
	Minimum Time Period of Batch Release (Minutes)	1	1	1	1

6. Abnormal Releases

a. Liquid - None

b. Gaseous - Two (7.5E-6Ci; 5.0E-3Ci; Total: 5.007E-3 Ci.)

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B - GASEOUS EFFLUENTS

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GASEOUS EFFLUENTS -- SUMMATION OF ALL RELEASES

UNITS	QUARTER 1	QUARTER 2	EST. TOTAL ERROR, %
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A. FISSION AND ACTIVATION GASES

1. TOTAL RELEASE	Ci	6.56E+01	4.76E+02	1.50E+01
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	8.43E+00	6.06E+01	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.95E-02	1.03E-01	

B. IODINES

1. TOTAL IODINE-131	Ci	6.37E-05	3.25E-04	1.50E+01
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	8.20E-06	4.13E-05	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	4.02E-05	2.03E-04	

C. PARTICULATES

1. PARTICULATES WITH HALF-LIVES >8 DAYS	Ci	1.47E-04	9.68E-05	1.50E+01
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	1.89E-05	1.23E-05	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	2.34E-05	1.36E-05	
4. GROSS ALPHA RADIOACTIVITY	Ci	4.20E-07	3.46E-07	

D. TRITIUM

1. TOTAL RELEASE	Ci	1.42E-01	1.62E-01	1.50E+01
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	1.83E-02	2.07E-02	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	4.49E-05	5.07E-05	

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GASEOUS EFFLUENTS FOR ALL RELEASE POINTS

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2

1. FISSION AND ACTIVATION GASES

H3	Ci	1.42E-01	1.62E-01	0.00E+00	0.00E+00
C14	Ci	9.60E-01	6.60E-01	0.00E+00	0.00E+00
Ar41	Ci	2.07E-03	2.30E-03	3.03E-01	3.01E-01
Kr85m	Ci	2.70E-03	1.32E-03	4.77E-01	5.59E-01
Kr85	Ci	0.00E+00	0.00E+00	3.78E+00	1.45E+00
Kr87	Ci	2.13E-03	1.16E-03	1.20E-01	9.10E-02
Kr88	Ci	3.88E-03	3.62E-03	5.08E-01	4.81E-01
Xe131m	Ci	0.00E+00	1.21E+01	1.17E+00	5.89E+00
Xe133m	Ci	0.00E+00	4.45E-01	1.62E-01	4.08E+00
Xe133	Ci	1.08E+01	9.88E+01	4.42E+01	3.45E+02
Xe135m	Ci	1.13E-01	2.84E-03	3.74E-02	3.04E-02
Xe135	Ci	1.06E-02	6.66E-01	2.87E+00	5.69E+00
Xe138	Ci	1.17E-03	3.61E-04	1.14E-02	1.60E-02
TOTAL FOR PERIOD (ABOVE)	Ci	1.20E+01	1.13E+02	5.37E+01	3.63E+02

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GASEOUS EFFLUENTS FOR ALL RELEASE POINTS

CONTINUOUS MODE

NUCLIDES RELEASED	UNITS	QUARTER 1	QUARTER 2
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2. IODINES

I131	Ci	6.37E-05	3.25E-04
I133	Ci	2.05E-05	1.34E-05
I132	Ci	0.00E+00	1.51E-06
TOTAL FOR PERIOD (ABOVE)	Ci	8.42E-05	3.40E-04

CONTINUOUS MODE

NUCLIDES RELEASED	UNITS	QUARTER 1	QUARTER 2
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3. PARTICULATES

Co60	Ci	5.98E-05	2.45E-05
Cs137	Ci	8.61E-05	6.80E-05
Ni63	Ci	8.94E-07	8.62E-07
Fe55	Ci	0.00E+00	3.54E-06
TOTAL FOR PERIOD (ABOVE)	Ci	1.47E-04	9.68E-05

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GASEOUS EFFLUENTS -- SUMMATION OF ALL RELEASES

UNITS	QUARTER 3	QUARTER 4	EST. TOTAL ERROR, %
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A. FISSION AND ACTIVATION GASES

1. TOTAL RELEASE	Ci	5.13E+00	6.15E-01	1.50E+01
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	6.45E-01	7.74E-02	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.88E-03	2.31E-04	

B. IODINES

1. TOTAL IODINE-131	Ci	0.00E+00	0.00E+00	1.50E+01
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	0.00E+00	0.00E+00	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	0.00E+00	0.00E+00	

C. PARTICULATES

1. PARTICULATES WITH HALF-LIVES >8 DAYS	Ci	5.99E-05	1.74E-04	1.50E+01
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	7.54E-06	2.19E-05	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	9.58E-06	2.09E-05	
4. GROSS ALPHA RADIOACTIVITY	Ci	3.26E-07	4.18E-07	

D. TRITIUM

1. TOTAL RELEASE	Ci	8.77E-02	1.96E-01	1.50E+01
2. AVERAGE RELEASE RATE FOR PERIOD	µCi/Sec	1.10E-02	2.46E-02	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	2.71E-05	6.04E-05	

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GASEOUS EFFLUENTS FOR ALL RELEASE POINTS

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4

1. FISSION AND ACTIVATION GASES

H3	Ci	8.77E-02	1.96E-01	0.00E+00	0.00E+00
C14	Ci	1.72E+00	3.70E-01	0.00E+00	0.00E+00
Ar41	Ci	0.00E+00	0.00E+00	4.21E-01	4.31E-02
Kr85m	Ci	0.00E+00	0.00E+00	3.33E-02	6.93E-03
Kr85	Ci	0.00E+00	0.00E+00	9.87E-03	0.00E+00
Kr87	Ci	0.00E+00	0.00E+00	1.57E-02	5.99E-03
Kr88	Ci	0.00E+00	0.00E+00	3.56E-02	8.86E-03
Xe131m	Ci	0.00E+00	0.00E+00	3.32E-03	0.00E+00
Xe133m	Ci	0.00E+00	0.00E+00	2.83E-03	6.50E-04
Xe133	Ci	0.00E+00	0.00E+00	2.21E+00	8.66E-02
Xe135m	Ci	0.00E+00	0.00E+00	3.50E-02	1.07E-02
Xe135	Ci	0.00E+00	0.00E+00	6.30E-01	8.07E-02
Xe138	Ci	0.00E+00	0.00E+00	9.62E-03	1.02E-03
TOTAL FOR PERIOD (ABOVE)	Ci	1.81E+00	5.66E-01	3.41E+00	2.45E-01

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GASEOUS EFFLUENTS FOR ALL RELEASE POINTS

CONTINUOUS MODE

NUCLIDES RELEASED	UNITS	QUARTER 3	QUARTER 4
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2. IODINES

TOTAL FOR PERIOD (ABOVE)	Ci	0.00E+00	0.00E+00
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CONTINUOUS MODE

NUCLIDES RELEASED	UNITS	QUARTER 3	QUARTER 4
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3. PARTICULATES

Co58	Ci	0.00E+00	4.04E-05
Co60	Ci	2.75E-05	4.09E-05
Cs137	Ci	3.18E-05	9.13E-05
Ni63	Ci	5.84E-07	1.22E-06
Fe55	Ci	2.78E-08	0.00E+00
TOTAL FOR PERIOD (ABOVE)	Ci	5.99E-05	1.74E-04

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C - LIQUID EFFLUENTS

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LIQUID EFFLUENTS -- SUMMATION OF ALL RELEASES

UNITS	QUARTER 1	QUARTER 2	EST. TOTAL ERROR, %
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A. FISSION AND ACTIVATION PRODUCTS

1. TOTAL RELEASE (EXCL. TRIT., GASES, ALPHA)	Ci	8.47E-02	1.88E-01	1.50E+01
2. AVERAGE DILUTED CONC. DURING PERIOD	µCi/ml	3.72E-10	1.09E-09	
3. PERCENT OF APPLICABLE LIMIT	%	4.29E-03	5.68E-03	

B. TRITIUM

1. TOTAL RELEASE	Ci	2.79E+02	1.93E+02	1.50E+01
2. AVERAGE DILUTED CONC. DURING PERIOD	µCi/ml	1.23E-06	1.13E-06	
3. PERCENT OF APPLICABLE LIMIT	%	4.09E-02	3.75E-02	

C. DISSOLVED AND ENTRAINED GASES

1. TOTAL RELEASE	Ci	6.93E-02	5.64E-01	1.50E+01
2. AVERAGE DILUTED CONC. DURING PERIOD	µCi/ml	3.04E-10	3.28E-09	
3. PERCENT OF APPLICABLE LIMIT	%	1.52E-04	1.64E-03	

D. GROSS ALPHA RADIOACTIVITY

1. TOTAL RELEASE	Ci	0.00E+00	0.00E+00	5.00E+01
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E. VOLUME WASTE RELEASED (PRIOR TO DILUTION)	LITERS	5.63E+07	2.52E+07	1.00E+01
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F. VOLUME DILUTION WATER USED DURING PERIOD	LITERS	2.28E+11	1.72E+11	1.00E+01
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LIQUID EFFLUENTS FOR ALL RELEASE POINTS

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
H3	Ci	1.42E-01	2.77E-02	2.79E+02	1.93E+02
Cr51	Ci	0.00E+00	0.00E+00	2.27E-03	1.77E-02
Mn54	Ci	0.00E+00	0.00E+00	2.38E-04	1.28E-03
Fe55	Ci	0.00E+00	0.00E+00	7.32E-03	1.68E-02
Fe59	Ci	0.00E+00	0.00E+00	1.52E-04	1.30E-04
Co58	Ci	0.00E+00	0.00E+00	3.90E-03	4.17E-02
Co60	Ci	0.00E+00	0.00E+00	8.56E-03	2.30E-02
Ni63	Ci	7.65E-04	5.83E-03	3.41E-03	4.53E-03
Sr90	Ci	6.08E-04	8.31E-04	0.00E+00	0.00E+00
Nb95	Ci	0.00E+00	0.00E+00	1.25E-04	9.98E-04
Ag110m	Ci	0.00E+00	0.00E+00	0.00E+00	1.70E-04
I131	Ci	1.30E-03	6.82E-04	0.00E+00	0.00E+00
I132	Ci	7.92E-06	2.43E-05	0.00E+00	0.00E+00
I133	Ci	4.18E-04	2.70E-04	0.00E+00	0.00E+00
Cs134	Ci	4.70E-04	4.50E-04	7.15E-04	1.34E-03
Cs137	Ci	4.48E-02	5.05E-02	2.79E-03	1.51E-03
Sb124	Ci	0.00E+00	0.00E+00	1.33E-03	6.95E-03
Sb125	Ci	0.00E+00	0.00E+00	5.50E-03	1.21E-02
Te123m	Ci	0.00E+00	0.00E+00	7.17E-06	8.12E-04
Sn113	Ci	0.00E+00	0.00E+00	0.00E+00	1.98E-04
TOTAL FOR PERIOD (ABOVE)	Ci	1.90E-01	8.63E-02	2.79E+02	1.93E+02

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LIQUID EFFLUENTS FOR ALL RELEASE POINTS

LIQUID EFFLUENTS (CONTD)

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
Xe133	Ci	2.48E-04	3.45E-03	6.77E-02	5.56E-01
Xe131m	Ci	0.00E+00	0.00E+00	3.70E-04	1.14E-03
Xe135	Ci	0.00E+00	6.66E-05	3.38E-04	3.43E-04
Xe133m	Ci	0.00E+00	0.00E+00	6.38E-04	2.77E-03

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LIQUID EFFLUENTS -- SUMMATION OF ALL RELEASES

UNITS	QUARTER 3	QUARTER 4	EST. TOTAL ERROR, %
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A. FISSION AND ACTIVATION PRODUCTS

1. TOTAL RELEASE (EXCL. TRIT., GASES, ALPHA)	Ci	1.25E-01	4.45E-02	1.50E+01
2. AVERAGE DILUTED CONC. DURING PERIOD	µCi/ml	4.72E-10	1.93E-10	
3. PERCENT OF APPLICABLE LIMIT	%	2.33E-03	1.94E-03	

B. TRITIUM

1. TOTAL RELEASE	Ci	5.46E+01	4.94E+00	1.50E+01
2. AVERAGE DILUTED CONC. DURING PERIOD	µCi/ml	2.06E-07	2.14E-08	
3. PERCENT OF APPLICABLE LIMIT	%	6.86E-03	7.13E-04	

C. DISSOLVED AND ENTRAINED GASES

1. TOTAL RELEASE	Ci	1.32E-05	0.00E+00	1.50E+01
2. AVERAGE DILUTED CONC. DURING PERIOD	µCi/ml	4.96E-14	0.00E+00	
3. PERCENT OF APPLICABLE LIMIT	%	2.48E-08	0.00E+00	

D. GROSS ALPHA RADIOACTIVITY

1. TOTAL RELEASE	Ci	0.00E+00	0.00E+00	5.00E+01
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E. VOLUME WASTE RELEASED (PRIOR TO DILUTION)	LITERS	3.65E+07	1.72E+07	1.00E+01
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F. VOLUME DILUTION WATER USED DURING PERIOD	LITERS	2.65E+11	2.31E+11	1.00E+01
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NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
H3	Ci	3.15E-02	2.70E-02	5.46E+01	4.91E+00
Cr51	Ci	0.00E+00	0.00E+00	7.03E-03	0.00E+00
Mn54	Ci	0.00E+00	0.00E+00	6.53E-04	0.00E+00
Fe55	Ci	0.00E+00	0.00E+00	3.66E-03	1.09E-04
Co58	Ci	0.00E+00	0.00E+00	1.14E-02	2.63E-04
Co60	Ci	5.48E-04	0.00E+00	4.95E-03	6.79E-04
Ni63	Ci	1.18E-06	8.31E-04	9.59E-03	1.58E-03
Sr90	Ci	8.54E-04	6.82E-04	0.00E+00	0.00E+00
I131	Ci	0.00E+00	0.00E+00	0.00E+00	4.72E-05
Cs134	Ci	2.51E-04	6.21E-05	0.00E+00	3.97E-06
Cs137	Ci	5.31E-02	3.84E-02	1.45E-04	3.45E-04
Sb124	Ci	0.00E+00	0.00E+00	9.78E-03	3.75E-04
Sb125	Ci	0.00E+00	0.00E+00	2.30E-02	1.09E-03
Te123m	Ci	0.00E+00	0.00E+00	1.56E-04	0.00E+00
TOTAL FOR PERIOD (ABOVE)	Ci	8.63E-02	6.70E-02	5.46E+01	4.92E+00

LIQUID EFFLUENTS (CONTD)

NUCLIDES RELEASED	UNITS	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
Xe135	Ci	0.00E+00	0.00E+00	1.32E-05	0.00E+00

ANNUAL
EFFLUENT AND WASTE DISPOSAL REPORT

D - SOLID WASTE

1997

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NOS. 1 & 2
DOCKET NOS. 50-03 & 50-247
MAY, 1998

May, 1998

Re: Indian Point Unit Nos. 1 & 2
Docket Nos. 50-03 & 50-247

Solid Radwaste Disposal Report 1997. Solid Radwaste Shipped Offsite for Burial, Reprocessing, or Disposal (No irradiated fuel).

12 MONTH PERIOD

1.	<u>Type of Waste</u>	<u>Units</u>	<u>Class A</u>	<u>Class B</u>	<u>Class C</u>	<u>Error, %</u>
a.	Spent Resins, sludges, etc.	m ³	20.89	9.24	0	-50/+100
		Ci	86.49	364.86	0	25
b.	DAW *	m ³	18.21	0	0	N/A
		Ci	23.62	0	0	25
c.	Irradiated components control rods, etc.	m ³	0	0	0	N/A
		Ci	0	0	0	N/A
2.	Estimate of major nuclide composition in percent (by type of waste)					
a.	H-3	-	1	Ni- 63	-	15
	Cs-137	-	39	Ce-144	-	1
	Co-60	-	21	Sb-125	-	3
	Fe-55	-	11	Other	-	9
b.	Nb-95	-	2	Sb-125	-	3
	Zr-95	-	2	Sb-124	-	5
	Mn-54	-	2	Fe-55	-	24
	Co-60	-	33	Cs-137	-	8
	Co-58	-	4	Ni-63	-	17

* This is the total of DAW both buried and awaiting processing at a volume reeduction facility.

May, 1998

Re: Indian Point Unit Nos. 1 & 2
Docket Nos. 50-03 & 50-247

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
7	Cask Truck	Barnwell, SC
10	Flat Bed Truck	Oak Ridge, TN
3	Flat Bed Truck	Wampum, PA

4. Solid Waste Containers

- a. 7 High Integrity Containers
- b. 13 Cargo Container

5. Waste Class

<u>Container</u>	<u>Class A</u>	<u>Class B</u>	<u>Class C</u>
High Integrity Containers	4	3	0
Cargo Containers	13	0	0

Note: Item 4b is the number of containers shipped offsite for volume reduction not the total number of containers buried.

Note: Curies in item 1 are measured using the Radman (Waste Management Group) software program.

ANNUAL
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E - RADIOLOGICAL IMPACT ON MAN

1997

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NOS. 1 & 2
DOCKET NOS. 50-03 & 50-247
MAY, 1998

May, 1998

Re: Indian Point Unit Nos. 1 & 2
Docket Nos. 50-03 & 50-247

RADIOLOGICAL IMPACT EVALUATION

Doses from gaseous immersion, inhalation, ground deposition, and vegetation ingestion were evaluated for the nearest residence likely to be occupied in the critical sector for each pathway and were combined to provide a conservative determination of the maximum individual offsite radiation dose from these pathways. Calculations were performed for members of the public on site for this reporting period. To this end, it is assumed that members of the public on-site are exposed 2 hours per year. Based on an assumed on-site location most likely to be occupied, a gaseous effluent dispersion factor is obtained. The dose is then computed with consideration for the total effluents released, the on-site dispersion factor and the exposure time. Doses to such individuals were found to be significantly less than one percent of the maximum individual offsite dose. Doses were also evaluated for all sectors assuming an individual ingesting milk and meat from a cow located at a 5.0 mile distance. In all cases these evaluations were performed using the models presented in Regulatory Guide 1.109.

All releases were evaluated using actual meteorological conditions existing during the release period.

Integrated dose from the population within 50 miles of Indian Point from gaseous effluents were computed based on the most current population data.*

Dose calculations for liquid pathways to individuals and populations are computed for a year. The LADTAP II computer program that is utilized for these calculations incorporated the calculation model and parameters that are presented in Regulatory Guide 1.109.

The fish, invertebrate, algae, drinking, shoreline, swimming and boating pathways are calculated for the adult, teenager, child and infant. These calculations are performed for reasons such as estimating the population water consumption dose, the population recreation dose, and cost-benefit analysis.

NUREG-0017, "Calculation of Release of Radioactive Materials in Gaseous and Liquid Effluents from Pressurized Water Reactors", assumes an annual release of 8.0 Ci/yr of Carbon-14. Therefore, to be consistent with NUREG-0017, a release of 3.7 Curies of Carbon-14 was assumed for the year, (adjusted for actual power operating capacity) in addition to the radioactive materials measured in Indian Point's gaseous effluents.

This impact evaluation demonstrates that the dose commitment to man from the operation of Indian Point Unit Nos. 1 and 2 is negligible, and is well below the levels set forth in 10 CFR 20, 10 CFR 50, and the Indian Point Unit Nos. 1 and 2 Technical Specifications.

* Population data was based on the 1990 census.

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INDIAN POINT UNITS 1 AND 2
RADIOLOGICAL IMPACT ON MAN*
(Reference Regulatory Guide 1.21, Page 12)

A. Maximum Individual Doses

(1)	<u>Pathways</u> (Gaseous) mRem	<u>Total Body</u> mRem	<u>Skin</u> mRem	<u>Thyroid</u> mRem	<u>Bone</u> MRem
	a) Nobel Gas Immersion	1.22E-2	3.33E-2	N/A	N/A
	b) Inhalation	1.97E-3	N/A	1.83E-3	1.03E-2
	c) Ground Deposition	2.50E-3	2.93E-3	2.50E-3	1.81E-3
	d) Milk Ingestion	3.88E-2	N/A	4.48E-2	1.82E-1
	e) Meat Ingestion	5.96E-3	N/A	5.99E-3	2.98E-2
	f) Vegetable Ingestion	1.34E-1	N/A	1.36E-1	6.69E-1

(2) Pathways (Liquid)

a) All See Attached "LADTAP" Printout

N/A = Not Applicable

* See analogous NYPA Effluent report for Indian Point Unit No. 3 to calculate a combined dose to the public.

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B. Population(1) Pathways (Gaseous)

	<u>Total Body</u> (Man-rem)	<u>Thyroid*</u> (Man-rem)
a) Nobel Gas Immersion	1.2E 0	1.2E 0
b) Inhalation	3.9E-1	4.5E-1
c) Ground Deposition	1.3E-1	1.3E-1
d) Totals	1.7E 0	1.7E 0

* The thyroid values consist of a sum of total body and thyroid.

(2) Pathways (Liquid)

a) All See the attached "LADTAP" printout.

C. Average Dose to Individuals(3) Pathways

a) Liquid-Total Body	2.69E-5 millirem
b) Gaseous-Total Body	1.10E-4 millirem

Con Edison Indian Point Station

IP2 ANNUAL EFFLUENT REPORT 1997

- USNRC LADTAP II CODE

DISCHARGE=1.00E+03 CFS

SOURCE TERM MULTIPLIER=1.00E+00

50-MILE POPULATION=1.55E+07

FRACTION --- CATEGORY I=0.71
CATEGORY II=0.11
CATEGORY III=0.18

FRESHWATER SITE

SOURCE TERM FOLLOWS

GRIEF SN113 1.98E-04
 GRIEF TE123M 9.75E-04
 GRIEF XE131M 1.51E-03
 GRIEF XE133 6.27E-01
 GRIEF XE133M 3.41E-03
 GRIEF XE135 7.61E-04

NO INTERNAL RECONCENTRATION MODEL EMPLOYED

* * * CATEGORY I DOSE FACTORS * * *

NUCLIDE	CURIE/YEAR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)			
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON	
1H	3	5.32E+02	0.00E+00	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	0.00E+00	0.00E+00	1.00E+00	
24CR	51	2.70E-02	0.00E+00	0.00E+00	2.66E-09	1.59E-09	5.86E-10	3.53E-09	6.69E-07	2.60E-10	2.20E-10	1.00E+00
25MN	54	2.17E-03	0.00E+00	4.57E-06	8.72E-07	0.00E+00	1.36E-06	0.00E+00	1.40E-05	6.80E-09	5.80E-09	1.00E+00
26FE	55	2.79E-02	2.75E-06	1.90E-06	4.43E-07	0.00E+00	0.00E+00	1.06E-06	1.09E-06	0.00E+00	0.00E+00	1.00E+00
27CO	58	5.73E-02	0.00E+00	7.45E-07	1.67E-06	0.00E+00	0.00E+00	0.00E+00	1.51E-05	8.20E-09	7.00E-09	1.00E+00
26FE	59	2.82E-04	4.34E-06	1.02E-05	3.91E-06	0.00E+00	0.00E+00	2.85E-06	3.40E-05	9.40E-09	8.00E-09	1.00E+00
27CO	60	3.77E-02	0.00E+00	2.14E-06	4.72E-06	0.00E+00	0.00E+00	0.00E+00	4.02E-05	2.00E-08	1.70E-08	1.00E+00
28NI	63	2.65E-02	1.30E-04	9.01E-06	4.36E-06	0.00E+00	0.00E+00	0.00E+00	1.88E-06	0.00E+00	0.00E+00	1.00E+00
38SR	90	2.98E-03	3.84E-03	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	1.00E+00
41NB	95	1.12E-03	6.22E-09	3.46E-09	1.86E-09	0.00E+00	3.42E-09	0.00E+00	2.10E-05	5.10E-09	6.00E-09	1.00E+00
47AG	110M	1.70E-04	1.60E-07	1.48E-07	8.79E-08	0.00E+00	2.91E-07	0.00E+00	6.04E-05	2.10E-08	1.80E-08	1.00E+00
53I	131	2.03E-03	4.16E-06	5.95E-06	3.41E-06	1.95E-03	1.02E-05	0.00E+00	1.57E-06	3.40E-09	2.80E-09	1.00E+00
53I	132	3.22E-05	2.03E-07	5.43E-07	1.90E-07	1.90E-05	8.65E-07	0.00E+00	1.02E-07	1.70E-08	2.00E-08	1.00E+00
53I	133	6.88E-04	1.42E-06	2.47E-06	7.53E-07	3.63E-04	4.31E-06	0.00E+00	2.22E-06	4.50E-09	3.70E-09	1.00E+00
55CS	134	3.29E-03	6.22E-05	1.48E-04	1.21E-04	0.00E+00	4.79E-05	1.59E-05	2.59E-06	1.40E-08	1.20E-08	1.00E+00
55CS	137	1.92E-01	7.97E-05	1.09E-04	7.14E-05	0.00E+00	3.70E-05	1.23E-05	2.11E-06	4.90E-09	4.20E-09	1.00E+00
51SB	124	1.84E-02	2.80E-06	5.29E-08	1.11E-06	6.79E-09	0.00E+00	2.18E-06	7.95E-05	1.50E-08	1.30E-08	1.00E+00
51SB	125	4.17E-02	1.79E-06	2.00E-08	4.26E-07	1.82E-09	0.00E+00	1.38E-06	1.97E-05	3.50E-09	3.10E-09	1.00E+00

* * * CATEGORY II DOSE FACTORS * * *

NUCLIDE	CURIE/YEAR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)							SHORELINE (MREM/HR)/(PCI/M**2)			
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY	RECON	
1H	3	5.32E+02	0.00E+00	1.06E-07	1.06E-07	1.06E-07	1.06E-07	1.06E-07	0.00E+00	0.00E+00	1.00E+00	
24CR	51	2.70E-02	0.00E+00	0.00E+00	3.60E-09	2.00E-09	7.89E-10	5.14E-09	6.05E-07	2.60E-10	2.20E-10	1.00E+00
25MN	54	2.17E-03	0.00E+00	5.90E-06	1.17E-06	0.00E+00	1.76E-06	0.00E+00	1.40E-05	6.80E-09	5.80E-09	1.00E+00
26FE	55	2.79E-02	3.78E-06	2.68E-06	6.25E-07	0.00E+00	0.00E+00	1.70E-06	1.16E-06	0.00E+00	0.00E+00	1.00E+00
27CO	58	5.73E-02	0.00E+00	9.72E-07	2.24E-06	0.00E+00	0.00E+00	0.00E+00	1.34E-05	8.20E-09	7.00E-09	1.00E+00
26FE	59	2.82E-04	5.87E-06	1.37E-05	5.29E-06	0.00E+00	0.00E+00	4.32E-06	3.24E-05	9.40E-09	8.00E-09	1.00E+00
27CO	60	3.77E-02	0.00E+00	2.81E-06	6.33E-06	0.00E+00	0.00E+00	0.00E+00	3.66E-05	2.00E-08	1.70E-08	1.00E+00
28NI	63	2.65E-02	1.77E-04	1.25E-05	6.00E-06	0.00E+00	0.00E+00	0.00E+00	1.99E-06	0.00E+00	0.00E+00	1.00E+00
38SR	90	2.98E-03	4.48E-03	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	1.00E+00
41NB	95	1.12E-03	8.22E-09	4.56E-09	2.51E-09	0.00E+00	4.42E-09	0.00E+00	1.95E-05	5.10E-09	6.00E-09	1.00E+00
47AG	110M	1.70E-04	2.05E-07	1.94E-07	1.18E-07	0.00E+00	3.70E-07	0.00E+00	5.45E-05	2.10E-08	1.80E-08	1.00E+00
53I	131	2.03E-03	5.85E-06	8.19E-06	4.40E-06	2.39E-03	1.41E-05	0.00E+00	1.62E-06	3.40E-09	2.80E-09	1.00E+00
53I	132	3.22E-05	2.79E-07	7.30E-07	2.62E-07	2.46E-05	1.15E-06	0.00E+00	3.18E-07	1.70E-08	2.00E-08	1.00E+00
53I	133	6.88E-04	2.01E-06	3.41E-06	1.04E-06	4.76E-04	5.98E-06	0.00E+00	2.58E-06	4.50E-09	3.70E-09	1.00E+00
55CS	134	3.29E-03	8.37E-05	1.97E-04	9.14E-05	0.00E+00	6.26E-05	2.39E-05	2.45E-06	1.40E-08	1.20E-08	1.00E+00
55CS	137	1.92E-01	1.12E-04	1.49E-04	5.19E-05	0.00E+00	5.07E-05	1.97E-05	2.12E-06	4.90E-09	4.20E-09	1.00E+00
51SB	124	1.84E-02	3.87E-06	7.13E-08	1.51E-06	8.78E-09	0.00E+00	3.38E-06	7.80E-05	1.50E-08	1.30E-08	1.00E+00
51SB	125	4.17E-02	2.48E-06	2.71E-08	5.80E-07	2.37E-09	0.00E+00	2.18E-06	1.93E-05	3.50E-09	3.10E-09	1.00E+00

* * * CATEGORY III DOSE FACTORS * * *

NUCLIDE	CURIE/YEAR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)								SHORELINE (MREM/HR)/(PCI/M**2)		RECON
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY		
1H	3	5.32E+02	0.00E+00	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	
24CR	51	2.70E-02	0.00E+00	0.00E+00	8.90E-09	4.94E-09	1.35E-09	9.02E-09	4.72E-07			
25MN	54	2.17E-03	0.00E+00	1.07E-05	2.85E-06	0.00E+00	3.00E-06	0.00E+00	8.98E-06			
26FE	55	2.79E-02	1.15E-05	6.10E-06	1.89E-06	0.00E+00	0.00E+00	3.45E-06	1.13E-06			
27CO	58	5.73E-02	0.00E+00	1.80E-06	5.51E-06	0.00E+00	0.00E+00	0.00E+00	1.05E-05			
26FE	59	2.82E-04	1.65E-05	2.67E-05	1.33E-05	0.00E+00	0.00E+00	7.74E-06	2.78E-05			
27CO	60	3.77E-02	0.00E+00	5.29E-06	1.56E-05	0.00E+00	0.00E+00	0.00E+00	2.93E-05			
28NI	63	2.65E-02	5.38E-04	2.88E-05	1.83E-05	0.00E+00	0.00E+00	0.00E+00	1.94E-06			
38SR	90	2.98E-03	1.13E-02	0.00E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	2.29E-04			
41NB	95	1.12E-03	2.25E-08	8.76E-09	6.26E-09	0.00E+00	8.23E-09	0.00E+00	1.62E-05			
47AG	110M	1.70E-04	5.39E-07	3.64E-07	2.91E-07	0.00E+00	6.78E-07	0.00E+00	4.33E-05			
53I	131	2.03E-03	1.72E-05	1.73E-05	9.83E-06	5.72E-03	2.84E-05	0.00E+00	1.54E-06			
53I	132	3.22E-05	8.00E-07	1.47E-06	6.76E-07	6.82E-05	2.25E-06	0.00E+00	1.73E-06			
53I	133	6.88E-04	5.92E-06	7.32E-06	2.77E-06	1.36E-03	1.22E-05	0.00E+00	2.95E-06			
55CS	134	3.29E-03	2.34E-04	3.84E-04	8.10E-05	0.00E+00	1.19E-04	4.27E-05	2.07E-06			
55CS	137	1.92E-01	3.27E-04	3.13E-04	4.62E-05	0.00E+00	1.02E-04	3.67E-05	1.96E-06			
51SB	124	1.84E-02	1.11E-05	1.44E-07	3.89E-06	2.45E-08	0.00E+00	6.16E-06	6.94E-05			
51SB	125	4.17E-02	7.16E-06	5.52E-08	1.50E-06	6.63E-09	0.00E+00	3.99E-06	1.71E-05			

* * * CATEGORY IV DOSE FACTORS * * *

NUCLIDE	CURIE/YEAR	INGESTION DOSE FACTORS (MREM/PCI INTAKE)								SHORELINE (MREM/HR)/(PCI/M**2)		RECON
		BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN	TOTAL BODY		
1H	3	5.32E+02	0.00E+00	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07	3.08E-07			
24CR	51	2.70E-02	0.00E+00	0.00E+00	1.41E-08	9.20E-09	2.01E-09	1.79E-08	4.11E-07			
25MN	54	2.17E-03	0.00E+00	1.99E-05	4.51E-06	0.00E+00	4.41E-06	0.00E+00	7.31E-06			
26FE	55	2.79E-02	1.39E-05	8.98E-06	2.40E-06	0.00E+00	0.00E+00	4.39E-06	1.14E-06			
27CO	58	5.73E-02	0.00E+00	3.60E-06	8.98E-06	0.00E+00	0.00E+00	0.00E+00	8.97E-06			
26FE	59	2.82E-04	3.08E-05	5.38E-05	2.12E-05	0.00E+00	0.00E+00	1.59E-05	2.57E-05			
27CO	60	3.77E-02	0.00E+00	1.08E-05	2.55E-05	0.00E+00	0.00E+00	0.00E+00	2.57E-05			
28NI	63	2.65E-02	6.34E-04	3.92E-05	2.20E-05	0.00E+00	0.00E+00	0.00E+00	1.95E-06			
38SR	90	2.98E-03	1.25E-02	0.00E+00	3.37E-03	0.00E+00	0.00E+00	0.00E+00	2.31E-04			
41NB	95	1.12E-03	4.20E-08	1.73E-08	1.00E-08	0.00E+00	1.24E-08	0.00E+00	1.46E-05			
47AG	110M	1.70E-04	9.96E-07	7.27E-07	4.81E-07	0.00E+00	1.04E-06	0.00E+00	3.77E-05			
53I	131	2.03E-03	3.59E-05	4.23E-05	1.86E-05	1.39E-02	4.94E-05	0.00E+00	1.51E-06			
53I	132	3.22E-05	1.66E-06	3.37E-06	1.20E-06	1.58E-04	3.76E-06	0.00E+00	2.73E-06			
53I	133	6.88E-04	1.25E-05	1.82E-05	5.33E-06	3.31E-03	2.14E-05	0.00E+00	3.08E-06			
55CS	134	3.29E-03	3.77E-04	7.03E-04	7.10E-05	0.00E+00	1.81E-04	7.42E-05	1.91E-06			
55CS	137	1.92E-01	5.22E-04	6.11E-04	4.33E-05	0.00E+00	1.64E-04	6.64E-05	1.91E-06			
51SB	124	1.84E-02	2.14E-05	3.15E-07	6.63E-06	5.68E-08	0.00E+00	1.34E-05	6.60E-05			
51SB	125	4.17E-02	1.23E-05	1.19E-07	2.53E-06	1.54E-08	0.00E+00	7.12E-06	1.64E-05			

TOTAL NUMBER IN SOURCE TERM IS 18 TOTAL RELEASE IS 5.3244E+02

* * * AS LOW AS REASONABLY ACHIEVABLE * * *

C A T E G O R Y I D O S E S

DOSE (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.96E-02	2.30E-02	1.57E-02	4.97E-04	7.90E-03	2.79E-03	4.68E-03
INVERTEBRATE		5.83E-03	6.68E-03	4.25E-03	7.69E-05	2.17E-03	7.71E-04	4.03E-03
ALGAE		3.10E-08	2.44E-08	1.96E-08	4.46E-10	8.28E-09	3.20E-09	1.09E-08
DRINKING		6.82E-13	1.73E-12	1.64E-12	1.30E-12	1.41E-12	1.30E-12	1.37E-12
SHORELINE	9.87E-04	8.45E-04	8.45E-04	8.45E-04	8.45E-04	8.45E-04	8.45E-04	8.45E-04
SWIMMING	0.00E+00	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06
BOATING	0.00E+00	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06
TOTAL	9.87E-04	2.63E-02	3.05E-02	2.08E-02	1.43E-03	1.09E-02	4.42E-03	9.57E-03

	USAGE (KG/YR, HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	21.0	5.0	25.00	
INVERTEBRATE	5.0	5.0	25.00	
ALGAE	0.0	5.0	25.00	
DRINKING	0.0	500.0	112.00	
SHORELINE	50.0	5.0	1.00	
SWIMMING	50.0	5.0	1.00	
BOATING	100.0	5.0	1.00	

C A T E G O R Y I I D O S E S

DOSE (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		2.06E-02	2.39E-02	8.94E-03	4.26E-04	8.17E-03	3.30E-03	3.35E-03
INVERTEBRATE		5.97E-03	6.86E-03	2.62E-03	6.25E-05	2.23E-03	9.13E-04	2.71E-03
ALGAE		4.05E-08	3.33E-08	1.60E-08	5.23E-10	1.13E-08	5.04E-09	1.06E-08
DRINKING		8.94E-13	1.92E-12	1.58E-12	1.33E-12	1.48E-12	1.35E-12	1.38E-12
SHORELINE	1.32E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03
SWIMMING	0.00E+00	1.31E-05	1.31E-05	1.31E-05	1.31E-05	1.31E-05	1.31E-05	1.31E-05
BOATING	0.00E+00	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06
TOTAL	1.32E-03	2.78E-02	3.19E-02	1.27E-02	1.64E-03	1.16E-02	5.36E-03	7.22E-03

	USAGE (KG/YR, HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	16.0	5.0	25.00	
INVERTEBRATE	3.8	5.0	25.00	
ALGAE	0.0	5.0	25.00	
DRINKING	0.0	500.0	112.00	
SHORELINE	67.0	5.0	1.00	
SWIMMING	100.0	5.0	1.00	
BOATING	100.0	5.0	1.00	

C A T E G O R Y I I I D O S E S

DOSE_ (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		2.58E-02	2.16E-02	3.89E-03	4.04E-04	7.07E-03	2.65E-03	1.30E-03
INVERTEBRATE		7.64E-03	6.33E-03	1.52E-03	5.78E-05	1.96E-03	7.70E-04	9.57E-04
ALGAE		1.12E-04	6.98E-05	2.16E-05	1.20E-06	2.26E-05	9.38E-06	9.44E-06
DRINKING		2.50E-09	3.80E-09	2.85E-09	2.58E-09	2.85E-09	2.58E-09	2.51E-09
SHORELINE	2.76E-04	2.37E-04	2.37E-04	2.37E-04	2.37E-04	2.37E-04	2.37E-04	2.37E-04
SWIMMING	0.00E+00	3.26E-06	3.26E-06	3.26E-06	3.26E-06	3.26E-06	3.26E-06	3.26E-06
BOATING	0.00E+00	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06	6.53E-06
TOTAL	2.76E-04	3.38E-02	2.82E-02	5.68E-03	7.09E-04	9.30E-03	3.68E-03	2.51E-03

USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	6.9	5.0	25.00
INVERTEBRATE	1.7	5.0	25.00
ALGAE	0.0	5.0	25.00
DRINKING	0.0	500.0	112.00
SHORELINE	14.0	5.0	1.00
SWIMMING	25.0	5.0	1.00
BOATING	100.0	5.0	1.00

C A T E G O R Y I V D O S E S

DOSE_ (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		2.86E-03	3.04E-03	2.81E-04	6.13E-05	8.22E-04	3.44E-04	9.21E-05
INVERTEBRATE		6.58E-04	7.14E-04	1.01E-04	6.29E-06	1.83E-04	7.77E-05	4.90E-05
ALGAE		1.60E-07	1.36E-07	2.29E-08	2.73E-09	3.63E-08	1.69E-08	9.05E-09
DRINKING		3.50E-12	6.36E-12	4.12E-12	4.07E-12	4.37E-12	3.96E-12	3.75E-12
SHORELINE	5.92E-05	5.07E-05	5.07E-05	5.07E-05	5.07E-05	5.07E-05	5.07E-05	5.07E-05
SWIMMING	0.00E+00	1.31E-12	1.31E-12	1.31E-12	1.31E-12	1.31E-12	1.31E-12	1.31E-12
BOATING	0.00E+00	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08	3.26E-08
TOTAL	5.92E-05	3.57E-03	3.80E-03	4.33E-04	1.18E-04	1.06E-03	4.72E-04	1.92E-04

USAGE (KG/YR,HR/YR)	DILUTION	TIME(HR)	SHOREWIDTH FACTOR=0.2
FISH	0.5	5.0	25.00
INVERTEBRATE	0.1	5.0	25.00
ALGAE	0.0	5.0	25.00
DRINKING	0.0	500.0	112.00
SHORELINE	3.0	5.0	1.00
SWIMMING	0.0	5.0	1.00
BOATING	0.5	5.0	1.00

* * * SELECTED LOCATION * * *

LOCATION IS DOWNSTREAM

C A T E G O R Y I D O S E S

DOSE (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.40E-02	1.64E-02	1.12E-02	3.50E-04	5.64E-03	2.00E-03	3.33E-03
INVERTEBRATE		4.16E-03	4.77E-03	3.04E-03	5.46E-05	1.55E-03	5.51E-04	2.87E-03
ALGAE		2.22E-08	1.74E-08	1.40E-08	3.12E-10	5.91E-09	2.28E-09	7.78E-09
DRINKING		4.88E-11	1.24E-10	1.17E-10	9.51E-11	1.01E-10	9.30E-11	9.84E-11
SHORELINE	7.05E-04	6.03E-04	6.03E-04	6.03E-04	6.03E-04	6.03E-04	6.03E-04	6.03E-04
SWIMMING	0.00E+00	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06
BOATING	0.00E+00	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06
TOTAL	7.05E-04	1.88E-02	2.18E-02	1.48E-02	1.02E-03	7.80E-03	3.16E-03	6.82E-03

PATHWAY	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	21.0	7.0	31.00	
INVERTEBRATE	5.0	7.0	31.00	
ALGAE	0.0	7.0	31.00	
DRINKING	0.0	7.0	19.00	
SHORELINE	50.0	7.0	7.00	
SWIMMING	50.0	7.0	7.00	
BOATING	100.0	7.0	7.00	

LOCATION IS DOWNSTREAM

C A T E G O R Y I I D O S E S

DOSE (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.47E-02	1.70E-02	6.38E-03	3.00E-04	5.84E-03	2.36E-03	2.39E-03
INVERTEBRATE		4.27E-03	4.90E-03	1.87E-03	4.43E-05	1.59E-03	6.52E-04	1.94E-03
ALGAE		2.89E-08	2.38E-08	1.14E-08	3.66E-10	8.06E-09	3.60E-09	7.56E-09
DRINKING		6.39E-11	1.37E-10	1.13E-10	9.73E-11	1.06E-10	9.63E-11	9.88E-11
SHORELINE	9.44E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04	8.08E-04
SWIMMING	0.00E+00	9.31E-06	9.31E-06	9.31E-06	9.31E-06	9.31E-06	9.31E-06	9.31E-06
BOATING	0.00E+00	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06
TOTAL	9.44E-04	1.98E-02	2.28E-02	9.08E-03	1.17E-03	8.25E-03	3.83E-03	5.14E-03

PATHWAY	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	16.0	7.0	31.00	
INVERTEBRATE	3.8	7.0	31.00	
ALGAE	0.0	7.0	31.00	
DRINKING	0.0	7.0	19.00	
SHORELINE	67.0	7.0	7.00	
SWIMMING	100.0	7.0	7.00	
BOATING	100.0	7.0	7.00	

LOCATION IS DOWNSTREAM

C A T E G O R Y I I I D O S E S

DOSE__ (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		1.84E-02	1.54E-02	2.78E-03	2.84E-04	5.05E-03	1.90E-03	9.24E-04
INVERTEBRATE		5.45E-03	4.52E-03	1.09E-03	4.09E-05	1.40E-03	5.50E-04	6.83E-04
ALGAE		8.03E-05	4.98E-05	1.55E-05	8.41E-07	1.62E-05	6.70E-06	6.73E-06
DRINKING		1.79E-07	2.72E-07	2.04E-07	1.90E-07	2.04E-07	1.84E-07	1.80E-07
SHORELINE	1.97E-04	1.69E-04	1.69E-04	1.69E-04	1.69E-04	1.69E-04	1.69E-04	1.69E-04
SWIMMING	0.00E+00	2.33E-06	2.33E-06	2.33E-06	2.33E-06	2.33E-06	2.33E-06	2.33E-06
BOATING	0.00E+00	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06	4.66E-06
TOTAL	1.97E-04	2.41E-02	2.02E-02	4.06E-03	5.01E-04	6.65E-03	2.63E-03	1.79E-03

PATHWAY	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	6.9	7.0	31.00	
INVERTEBRATE	1.7	7.0	31.00	
ALGAE	0.0	7.0	31.00	
DRINKING	0.0	7.0	19.00	
SHORELINE	14.0	7.0	7.00	
SWIMMING	25.0	7.0	7.00	
BOATING	100.0	7.0	7.00	

LOCATION IS DOWNSTREAM

C A T E G O R Y I V D O S E S

DOSE__ (MREM PER YEAR INTAKE)

PATHWAY	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH		2.04E-03	2.17E-03	2.00E-04	4.29E-05	5.87E-04	2.46E-04	6.56E-05
INVERTEBRATE		4.70E-04	5.10E-04	7.23E-05	4.43E-06	1.31E-04	5.55E-05	3.50E-05
ALGAE		1.15E-07	9.69E-08	1.64E-08	1.90E-09	2.59E-08	1.21E-08	6.45E-09
DRINKING		2.50E-10	4.55E-10	2.94E-10	3.05E-10	3.12E-10	2.83E-10	2.68E-10
SHORELINE	4.23E-05	3.62E-05	3.62E-05	3.62E-05	3.62E-05	3.62E-05	3.62E-05	3.62E-05
SWIMMING	0.00E+00	9.31E-13	9.31E-13	9.31E-13	9.31E-13	9.31E-13	9.31E-13	9.31E-13
BOATING	0.00E+00	2.33E-08	2.33E-08	2.33E-08	2.33E-08	2.33E-08	2.33E-08	2.33E-08
TOTAL	4.23E-05	2.55E-03	2.72E-03	3.09E-04	8.35E-05	7.54E-04	3.37E-04	1.37E-04

PATHWAY	USAGE (KG/YR,HR/YR)	DILUTION	TIME (HR)	SHOREWIDTH FACTOR=0.2
FISH	0.5	7.0	31.00	
INVERTEBRATE	0.1	7.0	31.00	
ALGAE	0.0	7.0	31.00	
DRINKING	0.0	7.0	19.00	
SHORELINE	3.0	7.0	7.00	
SWIMMING	0.0	7.0	7.00	
BOATING	0.5	7.0	7.00	

* * * FISH CONSUMPTION POPULATION DOSES * * *
MAN-REM

SPORT HARVEST

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	CATEGORY I	7.60E+04	4.98E-02	5.84E-02	3.98E-02	9.84E-04	2.00E-02	7.09E-03	1.09E-02
FISH	CATEGORY II	8.87E+03	8.03E-03	9.29E-03	3.48E-03	1.26E-04	3.18E-03	1.28E-03	1.20E-03
FISH	CATEGORY III	6.14E+03	1.61E-02	1.35E-02	2.43E-03	1.85E-04	4.42E-03	1.66E-03	7.52E-04
FISH	TOTAL	9.10E+04	7.39E-02	8.11E-02	4.57E-02	1.30E-03	2.76E-02	1.00E-02	1.29E-02

LOCATION DILUTION CATCH TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 1.68E+02 HR POPULATION=1.55E+04
7.00E+00 9.10E+04 1.68E+02

AVERAGE INDIVIDUAL CONSUMPTION (KG/YR) CATEGORY I=6.90E+00 CATEGORY II=5.20E+00 CATEGORY IV=2.20E+00

* * * FISH CONSUMPTION POPULATION DOSES * * *
MAN-REM

COMMERCIAL HARVEST

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	CATEGORY I	7.59E+07	1.75E-01	2.05E-01	1.40E-01	3.15E-03	7.06E-02	2.50E-02	3.70E-02
FISH	CATEGORY II	8.87E+06	2.83E-02	3.27E-02	1.22E-02	3.98E-04	1.12E-02	4.52E-03	4.06E-03
FISH	CATEGORY III	6.14E+06	5.67E-02	4.74E-02	8.54E-03	5.78E-04	1.55E-02	5.83E-03	2.55E-03
FISH	TOTAL	9.09E+07	2.60E-01	2.86E-01	1.61E-01	4.13E-03	9.73E-02	3.53E-02	4.36E-02

LOCATION DILUTION CATCH TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 2.40E+02 HR POPULATION=1.55E+07
7.00E+00 1.55E+05 2.40E+02

AVERAGE INDIVIDUAL CONSUMPTION (KG/YR) CATEGORY I=6.90E+00 CATEGORY II=5.20E+00 CATEGORY IV=2.20E+00

NEPA DOSES

NOTE--TOTAL NEPA DOSE INCLUDES SPORT CATCH

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
FISH	CATEGORY I	2.05E+05	1.35E-01	1.58E-01	1.07E-01	2.51E-03	5.42E-02	1.92E-02	2.88E-02
FISH	CATEGORY II	2.40E+04	2.17E-02	2.51E-02	9.40E-03	3.18E-04	8.59E-03	3.47E-03	3.17E-03
FISH	CATEGORY III	1.66E+04	4.36E-02	3.64E-02	6.56E-03	4.65E-04	1.19E-02	4.48E-03	1.99E-03
FISH	TOTAL	2.46E+05	2.00E-01	2.19E-01	1.23E-01	3.29E-03	7.47E-02	2.71E-02	3.40E-02

* * * INVERTEBRATE CONSUMPTION POPULATION DOSES * * *
MAN-REM

SPORT HARVEST

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
INVER	CATEGORY I	8.33E+03	6.82E-03	7.79E-03	4.97E-03	7.98E-05	2.54E-03	9.01E-04	4.64E-03
INVER	CATEGORY II	9.68E+02	1.07E-03	1.23E-03	4.69E-04	9.72E-06	3.98E-04	1.63E-04	4.78E-04
INVER	CATEGORY III	6.97E+02	2.20E-03	1.82E-03	4.38E-04	1.41E-05	5.64E-04	2.22E-04	2.72E-04
INVER	TOTAL	1.00E+04	1.01E-02	1.08E-02	5.87E-03	1.04E-04	3.50E-03	1.29E-03	5.39E-03

LOCATION DILUTION CATCH TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 1.68E+02 HR POPULATION=1.17E+04
7.00E+00 1.00E+04 1.68E+02

AVERAGE INDIVIDUAL CONSUMPTION (KG/YR) CATEGORY I=1.00E+00 CATEGORY II=7.50E-01 CATEGORY IV=3.30E-01

* * * INVERTEBRATE CONSUMPTION POPULATION DOSES * * *
MAN-REM

COMMERCIAL HARVEST

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
INVER	CATEGORY I	1.10E+07	3.91E-03	4.47E-03	2.85E-03	4.39E-05	1.46E-03	5.17E-04	2.64E-03
INVER	CATEGORY II	1.28E+06	6.13E-04	7.02E-04	2.69E-04	5.31E-06	2.28E-04	9.36E-05	2.72E-04
INVER	CATEGORY III	9.21E+05	1.26E-03	1.04E-03	2.51E-04	7.63E-06	3.24E-04	1.27E-04	1.55E-04
INVER	TOTAL	1.32E+07	5.79E-03	6.21E-03	3.37E-03	5.69E-05	2.01E-03	7.38E-04	3.07E-03

LOCATION DILUTION CATCH TIME(HR)-INCLUDES FOOD PROCESSING TIME OF 2.40E+02 HR POPULATION=1.55E+07
7.00E+00 1.00E+03 2.40E+02

AVERAGE INDIVIDUAL CONSUMPTION (KG/YR) CATEGORY I=1.00E+00 CATEGORY II=7.50E-01 CATEGORY IV=3.30E-01

NEPA DOSES

NOTE--TOTAL NEPA DOSE INCLUDES SPORT CATCH

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
INVER	CATEGORY I	9.17E+03	7.50E-03	8.57E-03	5.46E-03	8.74E-05	2.79E-03	9.92E-04	5.10E-03
INVER	CATEGORY II	1.07E+03	1.18E-03	1.35E-03	5.15E-04	1.06E-05	4.38E-04	1.79E-04	5.25E-04
INVER	CATEGORY III	7.67E+02	2.42E-03	2.00E-03	4.81E-04	1.54E-05	6.21E-04	2.44E-04	2.98E-04
INVER	TOTAL	1.10E+04	1.11E-02	1.19E-02	6.46E-03	1.13E-04	3.85E-03	1.41E-03	5.93E-03

* * * POPULATION WATER CONSUMPTION DOSES * * *

SUPPLIER-

-----DOSE (MAN-REM)-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	CATEGORY I	2.63E+02	9.76E-09	5.02E-09	3.89E-09	2.70E-10	1.78E-09	7.71E-10	5.39E-10
DRINKING	CATEGORY II	2.86E+01	1.42E-09	7.37E-10	3.53E-10	2.96E-11	2.55E-10	1.17E-10	6.02E-11
DRINKING	CATEGORY III	4.68E+01	6.73E-09	2.54E-09	8.33E-10	9.29E-11	8.34E-10	3.59E-10	1.41E-10
DRINKING	TOTAL	3.38E+02	1.79E-08	8.30E-09	5.08E-09	3.92E-10	2.87E-09	1.25E-09	7.40E-10

POPULATION=1.00E+00 DILUTION=1.00E+02 TRANSIT TIME=1.00E+06 HR (INCLUDING 24 HR FOR TREATMENT FACILITY)

AVERAGE INDIVIDUAL CONSUMPTION (L/YR) CATEGORY I =3.70E+02 CATEGORY II=2.60E+02 CATEGORY III=2.60E+02

-----CUMULATIVE TOTAL-----

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
DRINKING	CUMUL TOTAL	3.38E+02	1.79E-08	8.30E-09	5.08E-09	3.92E-10	2.87E-09	1.25E-09	7.40E-10

HYDROSPHERE TRITIUM DOSE

PATHWAY	AGE GROUP	USAGE	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
WATER	TOTAL	2.20E+00	4.36E-03	4.36E-03	4.36E-03	4.36E-03	4.36E-03	4.36E-03	4.36E-03

* * * RECREATION POPULATION DOSES * * *

LOCATION- DOWNSTREAM

DILUTION=0.70E+01

TRANSIT TIME=0.40E+01 HR

SWF=0.2

DOSE (MAN-REM)

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SHORELINE	TOTAL POPUL	1.66E+07	2.34E-01	2.00E-01	2.00E-01

LOCATION- 0.2DO

DILUTION=0.70E+01

TRANSIT TIME=0.40E+01 HR

DOSE (MAN-REM)

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
SWIMMING	TOTAL POPUL	1.66E+07	0.00E+00	1.55E-03	1.55E-03

LOCATION- 0.2DO

DILUTION=0.70E+01

TRANSIT TIME=0.40E+01 HR

DOSE (MAN-REM)

PATHWAY	AGE GROUP	USAGE	SKIN	TOTAL BODY	THYROID
BOATING	TOTAL POPUL	1.66E+07	0.00E+00	7.73E-04	7.73E-04

* * * DOSE TO BIOTA * * *

MRADS PER YEAR

DILUTION= 7.00E+00

TRANSIT TIME= 4.00E+00 HR

	INTERNAL	EXTERNAL	TOTAL
FISH	4.85E-02	5.29E-01	5.78E-01
INVERTEBRATE	7.93E-02	1.06E+00	1.14E+00
ALGAE	1.60E-01	8.16E-04	1.61E-01
MUSKRAT	2.37E+00	3.53E-01	2.72E+00
RACCOON	1.77E-01	2.64E-01	4.42E-01
HERON	1.20E+00	3.53E-01	1.56E+00
DUCK	2.21E+00	5.29E-01	2.74E+00

* * * COST-BENEFIT ANALYSIS * * *

NUCLIDE	RELEASE CI/YR	MAN-REM DOSE		MAN-REM PER CURIE	
		TOTAL BODY	THYROID	TOTAL BODY	THYROID
1H 3	5.32E+02	3.57E-03	3.57E-03	6.72E-06	6.72E-06
24CR 51	2.70E-02	1.34E-05	1.29E-05	4.97E-04	4.78E-04
25MN 54	2.17E-03	7.61E-04	2.13E-04	3.51E-01	9.80E-02
26FE 55	2.79E-02	2.23E-04	4.72E-09	7.98E-03	1.69E-07
27CO 58	5.73E-02	2.14E-03	1.75E-03	3.73E-02	3.05E-02
26FE 59	2.82E-04	2.34E-05	6.85E-06	8.30E-02	2.43E-02
27CO 60	3.77E-02	5.63E-02	5.55E-02	1.49E+00	1.47E+00
28NI 63	2.65E-02	9.68E-04	0.00E+00	3.65E-02	0.00E+00
38SR 90	2.98E-03	7.67E-03	4.26E-09	2.57E+00	1.43E-06
41NB 95	1.12E-03	1.63E-05	1.23E-05	1.45E-02	1.09E-02
47AG 110M	1.70E-04	4.21E-05	4.21E-05	2.48E-01	2.47E-01
53I 131	2.03E-03	9.99E-06	2.02E-03	4.92E-03	9.94E-01
53I 132	3.22E-05	9.61E-10	9.61E-10	2.99E-05	2.99E-05
53I 133	6.88E-04	1.63E-06	1.96E-06	2.37E-03	2.84E-03
55CS 134	3.29E-03	7.22E-03	1.55E-03	2.19E+00	4.72E-01
55CS 137	1.92E-01	3.31E-01	1.35E-01	1.72E+00	7.03E-01
51SB 124	1.84E-02	9.25E-04	9.23E-04	5.03E-02	5.02E-02
51SB 125	4.17E-02	6.72E-03	6.72E-03	1.61E-01	1.61E-01
TOTAL		4.17E-01	2.07E-01		

NOTE ON AGE GROUP:

CATEGORY I (17 YEARS OLD OR OLDER)
 CATEGORY II (11 TO 17 YEARS OLD)
 CATEGORY III (1 TO 11 YEARS OLD)
 CATEGORY IV (0 TO 1 YEAR OLD)

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	6.0	1.0	.0	.0	.0	7.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	5.0	5.0	.0	.0	.0	10.0
S	.0	.0	1.0	4.0	.0	.0	.0	5.0
SSW	.0	.0	2.0	2.0	.0	.0	.0	4.0
SW	.0	.0	1.0	.0	.0	.0	.0	1.0
WSW	.0	.0	2.0	2.0	.0	.0	.0	4.0
W	.0	.0	4.0	3.0	.0	.0	.0	7.0
WNW	.0	.0	12.0	14.0	1.0	.0	.0	27.0
NW	.0	.0	10.0	26.0	.0	.0	.0	36.0
NNW	.0	.0	11.0	2.0	.0	.0	.0	13.0
TOTAL	.0	.0	54.0	59.0	1.0	.0	.0	114.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90
 MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	6.0	4.0	.0	.0	.0	10.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	1.0	.0	.0	.0	.0	1.0
SSE	.0	.0	3.0	.0	.0	.0	.0	3.0
S	.0	.0	2.0	4.0	.0	.0	.0	6.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	1.0	.0	.0	.0	.0	1.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	4.0	2.0	.0	.0	.0	6.0
WNW	.0	.0	2.0	8.0	2.0	.0	.0	12.0
NW	.0	.0	12.0	12.0	.0	.0	.0	24.0
NNW	.0	.0	9.0	1.0	.0	.0	.0	10.0
TOTAL	.0	.0	40.0	31.0	2.0	.0	.0	73.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	10.0	2.0	.0	.0	.0	12.0
NNE	.0	.0	3.0	1.0	.0	.0	.0	4.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	6.0	1.0	.0	.0	.0	7.0
S	.0	.0	10.0	6.0	.0	.0	.0	16.0
SSW	.0	.0	2.0	.0	1.0	.0	.0	3.0
SW	.0	.0	2.0	1.0	.0	.0	.0	3.0
WSW	.0	.0	4.0	.0	.0	.0	.0	4.0
W	.0	.0	3.0	3.0	.0	.0	.0	6.0
WNW	.0	.0	5.0	9.0	2.0	.0	.0	16.0
NW	.0	.0	11.0	9.0	.0	.0	.0	20.0
NNW	.0	.0	5.0	.0	.0	.0	.0	5.0
TOTAL	.0	.0	61.0	32.0	3.0	.0	.0	96.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.7	11.0	72.0	52.0	9.0	.0	.0	144.7
NNE	.8	12.0	92.0	21.0	1.0	.0	.0	126.8
NE	.8	12.0	12.0	.0	.0	.0	.0	24.8
ENE	.5	8.0	.0	.0	.0	.0	.0	8.5
E	.6	9.0	3.0	.0	.0	.0	.0	12.6
ESE	.4	6.0	1.0	.0	.0	.0	.0	7.4
SE	.6	9.0	7.0	.0	.0	.0	.0	16.6
SSE	.6	9.0	43.0	11.0	.0	.0	.0	63.6
S	1.9	30.0	57.0	28.0	1.0	.0	.0	117.9
SSW	1.0	15.0	25.0	7.0	2.0	.0	.0	50.0
SW	.4	6.0	12.0	1.0	1.0	.0	.0	20.4
WSW	.7	11.0	20.0	7.0	.0	.0	.0	38.7
W	.5	8.0	36.0	13.0	1.0	.0	.0	58.5
WNW	.6	10.0	79.0	47.0	5.0	.0	.0	141.6
NW	.5	7.0	107.0	95.0	6.0	.0	.0	215.5
NNW	.5	8.0	79.0	45.0	.0	.0	.0	132.5
TOTAL	11.0	171.0	645.0	327.0	26.0	.0	.0	1180.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.3	25.0	20.0	.0	.0	.0	.0	45.3
NNE	.3	25.0	30.0	1.0	.0	.0	.0	56.3
NE	.2	17.0	9.0	.0	.0	.0	.0	26.2
ENE	.1	10.0	1.0	.0	.0	.0	.0	11.1
E	.2	12.0	.0	.0	.0	.0	.0	12.2
ESE	.1	8.0	.0	.0	.0	.0	.0	8.1
SE	.1	11.0	2.0	.0	.0	.0	.0	13.1
SSE	.5	37.0	35.0	.0	.0	.0	.0	72.5
S	.6	49.0	69.0	21.0	.0	.0	.0	139.6
SSW	.4	31.0	12.0	6.0	.0	.0	.0	49.4
SW	.3	27.0	6.0	.0	.0	.0	.0	33.3
WSW	.2	17.0	4.0	1.0	.0	.0	.0	22.2
W	.2	13.0	12.0	7.0	2.0	.0	.0	34.2
WNW	.1	7.0	14.0	6.0	1.0	.0	.0	28.1
NW	.1	8.0	5.0	3.0	.0	.0	.0	16.1
NNW	.2	16.0	5.0	.0	.0	.0	.0	21.2
TOTAL	4.0	313.0	224.0	45.0	3.0	.0	.0	589.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90
 MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	4.0	.0	.0	.0	.0	.0	4.0
NNE	.0	10.0	9.0	.0	.0	.0	.0	19.0
NE	.0	7.0	6.0	.0	.0	.0	.0	13.0
ENE	.0	5.0	.0	.0	.0	.0	.0	5.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	3.0	.0	.0	.0	.0	.0	3.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	5.0	1.0	.0	.0	.0	.0	6.0
S	.0	7.0	3.0	.0	.0	.0	.0	10.0
SSW	.0	5.0	1.0	.0	.0	.0	.0	6.0
SW	.0	2.0	1.0	.0	.0	.0	.0	3.0
WSW	.0	3.0	1.0	.0	.0	.0	.0	4.0
W	.0	3.0	.0	.0	.0	.0	.0	3.0
WNW	.0	3.0	.0	.0	.0	.0	.0	3.0
NW	.0	1.0	.0	.0	.0	.0	.0	1.0
NNW	.0	1.0	.0	.0	.0	.0	.0	1.0
TOTAL	.0	59.0	22.0	.0	.0	.0	.0	81.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	4.0	2.0	.0	.0	.0	.0	6.0
NNE	.0	6.0	1.0	.0	.0	.0	.0	7.0
NE	.0	1.0	2.0	.0	.0	.0	.0	3.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	1.0	.0	.0	.0	.0	.0	1.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	1.0	.0	.0	.0	.0	.0	1.0
S	.0	1.0	.0	.0	.0	.0	.0	1.0
SSW	.0	2.0	.0	.0	.0	.0	.0	2.0
SW	.0	2.0	.0	.0	.0	.0	.0	2.0
WSW	.0	1.0	.0	.0	.0	.0	.0	1.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	1.0	.0	.0	.0	.0	.0	1.0
NNW	.0	1.0	1.0	.0	.0	.0	.0	2.0
TOTAL	.0	21.0	6.0	.0	.0	.0	.0	27.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	1.0	44.0	116.0	59.0	9.0	.0	.0	229.0
NNE	1.1	53.0	135.0	23.0	1.0	.0	.0	213.1
NE	1.0	37.0	29.0	.0	.0	.0	.0	67.0
ENE	.6	23.0	1.0	.0	.0	.0	.0	24.6
E	.7	22.0	3.0	.0	.0	.0	.0	25.7
ESE	.5	17.0	1.0	.0	.0	.0	.0	18.5
SE	.7	20.0	10.0	.0	.0	.0	.0	30.7
SSE	1.1	52.0	93.0	17.0	.0	.0	.0	163.1
S	2.6	87.0	142.0	63.0	1.0	.0	.0	295.6
SSW	1.4	53.0	42.0	15.0	3.0	.0	.0	114.4
SW	.7	37.0	23.0	2.0	1.0	.0	.0	63.7
WSW	.9	32.0	31.0	10.0	.0	.0	.0	73.9
W	.7	24.0	59.0	28.0	3.0	.0	.0	114.7
WNW	.7	20.0	112.0	84.0	11.0	.0	.0	227.7
NW	.6	17.0	145.0	145.0	6.0	.0	.0	313.6
NNW	.7	26.0	110.0	48.0	.0	.0	.0	184.7
TOTAL	15.0	564.0	1052.0	494.0	35.0	.0	.0	2160.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	1.0	5.0	2.0	.0	.0	8.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	5.0	3.0	.0	.0	8.0
S	.0	.0	.0	4.0	2.0	.0	.0	6.0
SSW	.0	.0	.0	2.0	3.0	.0	.0	5.0
SW	.0	.0	1.0	.0	.0	.0	.0	1.0
WSW	.0	.0	1.0	1.0	2.0	.0	.0	4.0
W	.0	.0	.0	4.0	3.0	.0	.0	7.0
WNW	.0	.0	1.0	4.0	6.0	5.0	1.0	17.0
NW	.0	.0	1.0	8.0	16.0	15.0	3.0	43.0
NNW	.0	.0	1.0	7.0	4.0	2.0	1.0	15.0
TOTAL	.0	.0	6.0	40.0	41.0	22.0	5.0	114.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	7.0	1.0	2.0	.0	10.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	1.0	.0	.0	.0	1.0
SSE	.0	.0	2.0	2.0	.0	.0	.0	4.0
S	.0	.0	.0	.0	3.0	.0	.0	3.0
SSW	.0	.0	.0	1.0	1.0	.0	.0	2.0
SW	.0	.0	1.0	.0	.0	.0	.0	1.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	2.0	1.0	3.0	.0	.0	6.0
WNW	.0	.0	.0	1.0	6.0	2.0	2.0	11.0
NW	.0	.0	.0	6.0	14.0	4.0	4.0	28.0
NNW	.0	.0	2.0	4.0	1.0	.0	.0	7.0
TOTAL	.0	.0	7.0	23.0	29.0	8.0	6.0	73.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	4.0	8.0	1.0	1.0	.0	14.0
NNE	.0	.0	.0	2.0	.0	.0	.0	2.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	4.0	2.0	1.0	.0	.0	7.0
S	.0	.0	7.0	5.0	1.0	.0	.0	13.0
SSW	.0	.0	2.0	1.0	1.0	1.0	1.0	6.0
SW	.0	.0	.0	1.0	2.0	.0	.0	3.0
WSW	.0	.0	.0	2.0	2.0	.0	.0	4.0
W	.0	.0	.0	1.0	3.0	1.0	.0	5.0
WNW	.0	.0	2.0	2.0	8.0	4.0	2.0	18.0
NW	.0	.0	.0	5.0	6.0	5.0	2.0	18.0
NNW	.0	.0	2.0	2.0	2.0	.0	.0	6.0
TOTAL	.0	.0	21.0	31.0	27.0	12.0	5.0	96.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	4.0	23.0	46.0	57.0	15.0	11.0	156.0
NNE	.0	3.0	51.0	48.0	4.0	1.0	.0	107.0
NE	.0	3.0	17.0	4.0	.0	.0	.0	24.0
ENE	.0	7.0	5.0	.0	.0	.0	.0	12.0
E	.0	3.0	9.0	1.0	.0	.0	.0	13.0
ESE	.0	1.0	12.0	3.0	.0	.0	.0	16.0
SE	.0	1.0	8.0	7.0	.0	.0	.0	16.0
SSE	.0	5.0	24.0	29.0	8.0	.0	.0	66.0
S	.0	13.0	30.0	33.0	11.0	1.0	.0	88.0
SSW	.0	6.0	23.0	12.0	12.0	4.0	.0	57.0
SW	.0	5.0	7.0	13.0	2.0	3.0	2.0	32.0
WSW	.0	3.0	5.0	12.0	16.0	4.0	2.0	42.0
W	.0	2.0	10.0	12.0	23.0	7.0	2.0	56.0
WNW	.0	1.0	13.0	36.0	65.0	12.0	5.0	132.0
NW	.0	1.0	9.0	53.0	109.0	49.0	13.0	234.0
NNW	.0	3.0	10.0	46.0	47.0	20.0	3.0	129.0
TOTAL	.0	61.0	256.0	355.0	354.0	116.0	38.0	1180.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	8.0	19.0	10.0	3.0	.0	.0	40.0
NNE	.0	13.0	29.0	15.0	.0	.0	.0	57.0
NE	.0	3.0	7.0	1.0	.0	.0	.0	11.0
ENE	.0	1.0	4.0	.0	.0	.0	.0	5.0
E	.0	4.0	3.0	.0	.0	.0	.0	7.0
ESE	.0	4.0	5.0	1.0	.0	.0	.0	10.0
SE	.0	7.0	8.0	1.0	.0	.0	.0	16.0
SSE	.0	10.0	26.0	21.0	1.0	.0	.0	58.0
S	.0	12.0	59.0	49.0	25.0	.0	.0	145.0
SSW	.0	13.0	27.0	25.0	12.0	.0	.0	77.0
SW	.0	4.0	18.0	6.0	7.0	3.0	.0	38.0
WSW	.0	7.0	7.0	6.0	4.0	.0	1.0	25.0
W	.0	5.0	5.0	3.0	6.0	2.0	4.0	25.0
WNW	.0	1.0	11.0	13.0	1.0	3.0	4.0	33.0
NW	.0	5.0	7.0	11.0	2.0	1.0	1.0	27.0
NNW	.0	2.0	7.0	4.0	2.0	.0	.0	15.0
TOTAL	.0	99.0	242.0	166.0	63.0	9.0	10.0	589.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	6.0	5.0	.0	.0	.0	.0	11.0
NNE	.0	.0	10.0	7.0	.0	.0	.0	17.0
NE	.0	1.0	1.0	.0	.0	.0	.0	2.0
ENE	.0	.0	1.0	.0	.0	.0	.0	1.0
E	.0	1.0	.0	.0	.0	.0	.0	1.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	2.0	.0	.0	.0	.0	2.0
SSE	.0	1.0	5.0	.0	.0	.0	.0	6.0
S	.0	1.0	8.0	3.0	1.0	.0	.0	13.0
SSW	.0	.0	5.0	7.0	.0	.0	.0	12.0
SW	.0	1.0	3.0	1.0	.0	.0	.0	5.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	1.0	.0	1.0	.0	.0	.0	2.0
WNW	.0	1.0	1.0	1.0	.0	.0	.0	3.0
NW	.0	4.0	.0	1.0	.0	.0	.0	5.0
NNW	.0	.0	1.0	.0	.0	.0	.0	1.0
TOTAL	.0	17.0	42.0	21.0	1.0	.0	.0	81.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	4.0	1.0	.0	.0	.0	.0	5.0
NNE	.0	.0	2.0	1.0	.0	.0	.0	3.0
NE	.0	1.0	.0	.0	.0	.0	.0	1.0
ENE	.0	1.0	.0	.0	.0	.0	.0	1.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	2.0	3.0	.0	.0	.0	5.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	1.0	.0	.0	.0	1.0
WSW	.0	.0	3.0	.0	.0	.0	.0	3.0
W	.0	.0	1.0	.0	.0	.0	.0	1.0
WNW	.0	1.0	1.0	.0	.0	.0	.0	2.0
NW	.0	.0	1.0	.0	.0	.0	.0	1.0
NNW	.0	.0	1.0	3.0	.0	.0	.0	4.0
TOTAL	.0	7.0	12.0	8.0	.0	.0	.0	27.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	22.0	53.0	76.0	64.0	18.0	11.0	244.0
NNE	.0	16.0	92.0	73.0	4.0	1.0	.0	186.0
NE	.0	8.0	25.0	5.0	.0	.0	.0	38.0
ENE	.0	9.0	10.0	.0	.0	.0	.0	19.0
E	.0	8.0	12.0	1.0	.0	.0	.0	21.0
ESE	.0	5.0	17.0	4.0	.0	.0	.0	26.0
SE	.0	8.0	18.0	9.0	.0	.0	.0	35.0
SSE	.0	16.0	61.0	59.0	13.0	.0	.0	149.0
S	.0	26.0	106.0	97.0	43.0	1.0	.0	273.0
SSW	.0	19.0	57.0	48.0	29.0	5.0	1.0	159.0
SW	.0	10.0	30.0	22.0	11.0	6.0	2.0	81.0
WSW	.0	10.0	16.0	21.0	24.0	4.0	3.0	78.0
W	.0	8.0	18.0	22.0	38.0	10.0	6.0	102.0
WNW	.0	4.0	29.0	57.0	86.0	26.0	14.0	216.0
NW	.0	10.0	18.0	84.0	147.0	74.0	23.0	356.0
NNW	.0	5.0	24.0	66.0	56.0	22.0	4.0	177.0
TOTAL	.0	184.0	586.0	644.0	515.0	167.0	64.0	2160.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	2.0	1.0	.0	.0	.0	3.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	1.0	.0	.0	.0	.0	1.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	1.0	.0	1.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	3.0	1.0	.0	1.0	.0	5.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00
 MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	1.0	.0	.0	3.0	4.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	1.0	3.0	.0	.0	4.0
S	.0	.0	3.0	2.0	.0	.0	.0	5.0
SSW	.0	.0	.0	1.0	1.0	1.0	.0	3.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	1.0	.0	.0	.0	.0	.0	1.0
WNW	.0	.0	.0	1.0	1.0	1.0	.0	3.0
NW	.0	.0	.0	2.0	3.0	3.0	2.0	10.0
NNW	.0	.0	.0	1.0	.0	.0	.0	1.0
TOTAL	.0	1.0	3.0	9.0	8.0	5.0	5.0	31.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	1.0	6.0	2.0	.0	2.0	11.0
NNE	.0	1.0	.0	.0	.0	.0	.0	1.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	3.0	.0	.0	.0	.0	3.0
SE	.0	.0	2.0	.0	.0	.0	.0	2.0
SSE	.0	.0	2.0	1.0	.0	.0	.0	3.0
S	.0	1.0	2.0	2.0	1.0	.0	.0	6.0
SSW	.0	.0	1.0	6.0	1.0	.0	.0	8.0
SW	.0	.0	1.0	.0	.0	.0	.0	1.0
WSW	.0	.0	1.0	.0	2.0	.0	.0	3.0
W	.0	.0	.0	4.0	2.0	1.0	.0	7.0
WNW	.0	.0	1.0	3.0	5.0	4.0	4.0	17.0
NW	.0	.0	1.0	3.0	9.0	8.0	2.0	23.0
NNW	.0	.0	1.0	5.0	4.0	2.0	1.0	13.0
TOTAL	.0	2.0	16.0	30.0	26.0	15.0	9.0	98.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	4.0	15.0	53.0	56.0	25.0	14.0	167.0
NNE	.0	5.0	36.0	56.0	8.0	3.0	.0	108.0
NE	.0	2.0	14.0	20.0	.0	.0	.0	36.0
ENE	.0	3.0	10.0	3.0	.0	.0	.0	16.0
E	.0	3.0	8.0	3.0	.0	.0	.0	14.0
ESE	.0	1.0	11.0	13.0	2.0	.0	.0	27.0
SE	.0	6.0	9.0	18.0	2.0	.0	.0	35.0
SSE	.0	6.0	18.0	29.0	16.0	3.0	.0	72.0
S	.0	3.0	39.0	54.0	25.0	4.0	.0	125.0
SSW	.0	4.0	16.0	17.0	28.0	8.0	4.0	77.0
SW	.0	4.0	7.0	13.0	6.0	6.0	3.0	39.0
WSW	.0	5.0	6.0	9.0	28.0	7.0	2.0	57.0
W	.0	2.0	8.0	18.0	33.0	15.0	10.0	86.0
WNW	.0	.0	10.0	47.0	77.0	45.0	21.0	200.0
NW	.0	.0	16.0	55.0	132.0	85.0	41.0	329.0
NNW	.0	3.0	10.0	37.0	45.0	21.0	7.0	123.0
TOTAL	.0	51.0	233.0	445.0	458.0	222.0	102.0	1511.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	18.0	10.0	1.0	.0	.0	29.0
NNE	.0	3.0	3.0	11.0	2.0	.0	.0	19.0
NE	.0	2.0	10.0	3.0	.0	.0	.0	15.0
ENE	.0	2.0	2.0	.0	.0	.0	.0	4.0
E	.0	1.0	7.0	2.0	.0	.0	.0	10.0
ESE	.0	5.0	5.0	1.0	.0	.0	.0	11.0
SE	.0	3.0	6.0	2.0	.0	.0	.0	11.0
SSE	.0	5.0	18.0	9.0	5.0	.0	.0	37.0
S	.0	6.0	35.0	52.0	39.0	8.0	.0	140.0
SSW	.0	4.0	17.0	24.0	15.0	3.0	.0	63.0
SW	.0	5.0	9.0	13.0	3.0	6.0	.0	36.0
WSW	.0	4.0	15.0	6.0	2.0	1.0	1.0	29.0
W	.0	.0	7.0	7.0	1.0	3.0	3.0	21.0
WNW	.0	1.0	4.0	2.0	.0	1.0	.0	8.0
NW	.0	1.0	3.0	5.0	2.0	.0	.0	11.0
NNW	.0	3.0	7.0	3.0	.0	.0	.0	13.0
TOTAL	.0	45.0	166.0	150.0	70.0	22.0	4.0	457.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	2.0	3.0	1.0	.0	.0	.0	6.0
NNE	.0	.0	4.0	.0	.0	.0	.0	4.0
NE	.0	2.0	2.0	2.0	.0	.0	.0	6.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	1.0	1.0	.0	.0	.0	.0	2.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	2.0	.0	.0	.0	2.0
S	.0	.0	.0	3.0	5.0	.0	.0	8.0
SSW	.0	1.0	.0	1.0	5.0	.0	.0	7.0
SW	.0	1.0	1.0	.0	.0	.0	.0	2.0
WSW	.0	.0	.0	1.0	.0	.0	.0	1.0
W	.0	1.0	1.0	1.0	.0	.0	.0	3.0
WNW	.0	1.0	2.0	1.0	.0	.0	.0	4.0
NW	.0	2.0	1.0	3.0	1.0	.0	.0	7.0
NNW	.0	.0	1.0	1.0	1.0	.0	.0	3.0
TOTAL	.0	11.0	16.0	16.0	12.0	.0	.0	55.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	1.0	.0	.0	.0	.0	1.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	1.0	.0	.0	1.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	1.0	.0	.0	.0	.0	1.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	2.0	.0	1.0	.0	.0	3.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JAN/FEB/MAR 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 1/ 1/ 0] TO [1997/ 3/31/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	6.0	37.0	71.0	59.0	25.0	19.0	217.0
NNE	.0	9.0	46.0	68.0	10.0	3.0	.0	136.0
NE	.0	6.0	26.0	25.0	.0	.0	.0	57.0
ENE	.0	5.0	12.0	3.0	.0	.0	.0	20.0
E	.0	5.0	16.0	5.0	.0	.0	.0	26.0
ESE	.0	6.0	19.0	14.0	2.0	.0	.0	41.0
SE	.0	9.0	17.0	20.0	2.0	.0	.0	48.0
SSE	.0	11.0	38.0	42.0	24.0	3.0	.0	118.0
S	.0	10.0	80.0	113.0	71.0	12.0	.0	286.0
SSW	.0	9.0	34.0	49.0	50.0	12.0	4.0	158.0
SW	.0	10.0	18.0	26.0	9.0	12.0	3.0	78.0
WSW	.0	9.0	22.0	16.0	32.0	8.0	3.0	90.0
W	.0	4.0	17.0	30.0	36.0	19.0	13.0	119.0
WNW	.0	2.0	17.0	54.0	83.0	51.0	25.0	232.0
NW	.0	3.0	21.0	68.0	147.0	97.0	45.0	381.0
NNW	.0	6.0	19.0	47.0	50.0	23.0	8.0	153.0
TOTAL	.0	110.0	439.0	651.0	575.0	265.0	120.0	2160.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 0
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2160

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	31.0	12.0	.0	.0	.0	43.0
NNE	.0	.0	.0	2.0	.0	.0	.0	2.0
NE	.0	.0	2.0	.0	.0	.0	.0	2.0
ENE	.0	.0	2.0	.0	.0	.0	.0	2.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	28.0	13.0	.0	.0	.0	41.0
S	.0	.0	32.0	13.0	3.0	.0	.0	48.0
SSW	.0	.0	3.0	7.0	1.0	.0	.0	11.0
SW	.0	.0	5.0	1.0	.0	.0	.0	6.0
WSW	.0	.0	11.0	1.0	.0	.0	.0	12.0
W	.0	.0	9.0	6.0	.0	.0	.0	15.0
WNW	.0	.0	22.0	19.0	.0	.0	.0	41.0
NW	.0	.0	15.0	41.0	.0	.0	.0	56.0
NNW	.0	.0	21.0	24.0	.0	.0	.0	45.0
TOTAL	.0	.0	181.0	139.0	4.0	.0	.0	324.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	1.0	10.0	7.0	.0	.0	.0	18.0
NNE	.0	.0	10.0	4.0	.0	.0	.0	14.0
NE	.0	.0	1.0	1.0	.0	.0	.0	2.0
ENE	.0	.0	4.0	.0	.0	.0	.0	4.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.0	.0	.0	.0	.0	.0	1.0
SSE	.0	2.0	9.0	1.0	.0	.0	.0	12.0
S	.0	2.0	22.0	3.0	.0	.0	.0	27.0
SSW	.0	1.0	3.0	1.0	.0	.0	.0	5.0
SW	.0	.0	5.0	.0	.0	.0	.0	5.0
WSW	.0	.0	3.0	1.0	.0	.0	.0	4.0
W	.0	.0	4.0	2.0	.0	.0	.0	6.0
WNW	.0	.0	7.0	5.0	.0	.0	.0	12.0
NW	.0	.0	7.0	7.0	.0	.0	.0	14.0
NNW	.0	.0	5.0	2.0	1.0	.0	.0	8.0
TOTAL	.0	7.0	90.0	34.0	1.0	.0	.0	132.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	1.0	16.0	2.0	4.0	.0	.0	23.0
NNE	.0	.0	12.0	9.0	.0	.0	.0	21.0
NE	.0	1.0	2.0	1.0	.0	.0	.0	4.0
ENE	.0	1.0	1.0	.0	.0	.0	.0	2.0
E	.0	1.0	.0	.0	.0	.0	.0	1.0
ESE	.0	.0	1.0	.0	.0	.0	.0	1.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	1.0	5.0	3.0	.0	.0	.0	9.0
S	.0	2.0	20.0	4.0	.0	.0	.0	26.0
SSW	.0	1.0	9.0	3.0	1.0	.0	.0	14.0
SW	.0	2.0	6.0	1.0	.0	.0	.0	9.0
WSW	.0	4.0	.0	.0	.0	.0	.0	4.0
W	.0	.0	3.0	1.0	.0	.0	.0	4.0
WNW	.0	1.0	7.0	3.0	1.0	.0	.0	12.0
NW	.0	.0	4.0	7.0	.0	.0	.0	11.0
NNW	.0	2.0	4.0	6.0	.0	.0	.0	12.0
TOTAL	.0	17.0	90.0	40.0	6.0	.0	.0	153.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	14.0	48.0	11.0	3.0	2.0	.0	78.0
NNE	.0	20.0	55.0	24.0	.0	.0	.0	99.0
NE	.0	7.0	14.0	2.0	.0	.0	.0	23.0
ENE	.0	5.0	.0	.0	.0	.0	.0	5.0
E	.0	7.0	1.0	.0	.0	.0	.0	8.0
ESE	.0	9.0	1.0	.0	.0	.0	.0	10.0
SE	.0	11.0	1.0	.0	.0	.0	.0	12.0
SSE	.0	25.0	80.0	8.0	.0	.0	.0	113.0
S	.0	21.0	76.0	12.0	.0	.0	.0	109.0
SSW	.0	8.0	19.0	9.0	.0	.0	.0	36.0
SW	.0	9.0	12.0	.0	.0	.0	.0	21.0
WSW	.0	8.0	6.0	.0	.0	.0	.0	14.0
W	.0	9.0	23.0	4.0	.0	.0	.0	36.0
WNW	.0	6.0	48.0	17.0	.0	.0	.0	71.0
NW	.0	7.0	61.0	25.0	.0	.0	.0	93.0
NNW	.0	12.0	41.0	44.0	3.0	.0	.0	100.0
TOTAL	.0	178.0	486.0	156.0	6.0	2.0	.0	828.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	22.0	14.0	3.0	5.0	.0	.0	44.0
NNE	.0	38.0	44.0	.0	.0	.0	.0	82.0
NE	.0	24.0	13.0	.0	.0	.0	.0	37.0
ENE	.0	17.0	.0	.0	.0	.0	.0	17.0
E	.0	14.0	1.0	.0	.0	.0	.0	15.0
ESE	.0	10.0	.0	.0	.0	.0	.0	10.0
SE	.0	15.0	1.0	.0	.0	.0	.0	16.0
SSE	.0	47.0	26.0	3.0	.0	.0	.0	76.0
S	.0	46.0	31.0	3.0	.0	.0	.0	80.0
SSW	.0	26.0	15.0	3.0	.0	.0	.0	44.0
SW	.0	12.0	3.0	.0	.0	.0	.0	15.0
WSW	.0	10.0	2.0	.0	.0	.0	.0	12.0
W	.0	14.0	9.0	1.0	.0	.0	.0	24.0
WNW	.0	5.0	11.0	1.0	.0	.0	.0	17.0
NW	.0	9.0	7.0	.0	.0	.0	.0	16.0
NNW	.0	2.0	14.0	.0	.0	.0	.0	16.0
TOTAL	.0	311.0	191.0	14.0	5.0	.0	.0	521.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	25.0	3.0	.0	.0	.0	.0	28.0
NNE	.0	28.0	18.0	.0	.0	.0	.0	46.0
NE	.0	19.0	8.0	.0	.0	.0	.0	27.0
ENE	.0	5.0	.0	.0	.0	.0	.0	5.0
E	.0	6.0	.0	.0	.0	.0	.0	6.0
ESE	.0	5.0	.0	.0	.0	.0	.0	5.0
SE	.0	3.0	.0	.0	.0	.0	.0	3.0
SSE	.0	8.0	3.0	.0	.0	.0	.0	11.0
S	.0	11.0	.0	.0	.0	.0	.0	11.0
SSW	.0	5.0	.0	.0	.0	.0	.0	5.0
SW	.0	6.0	.0	.0	.0	.0	.0	6.0
WSW	.0	4.0	.0	.0	.0	.0	.0	4.0
W	.0	5.0	.0	.0	.0	.0	.0	5.0
WNW	.0	2.0	.0	.0	.0	.0	.0	2.0
NW	.0	5.0	.0	.0	.0	.0	.0	5.0
NNW	.0	10.0	1.0	.0	.0	.0	.0	11.0
TOTAL	.0	147.0	33.0	.0	.0	.0	.0	180.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	10.0	.0	.0	.0	.0	.0	10.0
NNE	.0	5.0	7.0	.0	.0	.0	.0	12.0
NE	.0	2.0	3.0	.0	.0	.0	.0	5.0
ENE	.0	4.0	1.0	.0	.0	.0	.0	5.0
E	.0	1.0	1.0	.0	.0	.0	.0	2.0
ESE	.0	1.0	.0	.0	.0	.0	.0	1.0
SE	.0	2.0	.0	.0	.0	.0	.0	2.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	2.0	.0	.0	.0	.0	.0	2.0
SSW	.0	.0	1.0	.0	.0	.0	.0	1.0
SW	.0	2.0	.0	.0	.0	.0	.0	2.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	29.0	13.0	.0	.0	.0	.0	42.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	73.0	122.0	35.0	12.0	2.0	.0	244.0
NNE	.0	91.0	146.0	39.0	.0	.0	.0	276.0
NE	.0	53.0	43.0	4.0	.0	.0	.0	100.0
ENE	.0	32.0	8.0	.0	.0	.0	.0	40.0
E	.0	29.0	3.0	.0	.0	.0	.0	32.0
ESE	.0	25.0	2.0	.0	.0	.0	.0	27.0
SE	.0	32.0	2.0	.0	.0	.0	.0	34.0
SSE	.0	83.0	151.0	28.0	.0	.0	.0	262.0
S	.0	84.0	181.0	35.0	3.0	.0	.0	303.0
SSW	.0	41.0	50.0	23.0	2.0	.0	.0	116.0
SW	.0	31.0	31.0	2.0	.0	.0	.0	64.0
WSW	.0	26.0	22.0	2.0	.0	.0	.0	50.0
W	.0	28.0	48.0	14.0	.0	.0	.0	90.0
WNW	.0	14.0	95.0	45.0	1.0	.0	.0	155.0
NW	.0	21.0	94.0	80.0	.0	.0	.0	195.0
NNW	.0	26.0	86.0	76.0	4.0	.0	.0	192.0
TOTAL	.0	689.0	1084.0	383.0	22.0	2.0	.0	2180.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	2.0	20.0	8.0	4.0	.0	34.0
NNE	.0	.0	.0	.0	1.0	.0	.0	1.0
NE	.0	.0	1.0	1.0	.0	.0	.0	2.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	2.0	.0	.0	.0	2.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	3.0	.0	.0	.0	3.0
SSE	.0	.0	17.0	28.0	12.0	1.0	.0	58.0
S	.0	.0	7.0	15.0	3.0	.0	.0	25.0
SSW	.0	.0	.0	1.0	3.0	3.0	2.0	9.0
SW	.0	.0	1.0	2.0	.0	3.0	.0	6.0
WSW	.0	.0	2.0	6.0	.0	1.0	1.0	10.0
W	.0	.0	.0	10.0	6.0	3.0	.0	19.0
WNW	.0	.0	1.0	14.0	9.0	10.0	4.0	38.0
NW	.0	.0	5.0	4.0	25.0	25.0	11.0	70.0
NNW	.0	.0	.0	11.0	24.0	10.0	2.0	47.0
TOTAL	.0	.0	36.0	117.0	91.0	60.0	20.0	324.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	1.0	9.0	2.0	2.0	2.0	16.0
NNE	.0	.0	3.0	3.0	.0	.0	.0	6.0
NE	.0	.0	2.0	4.0	.0	.0	.0	6.0
ENE	.0	.0	.0	1.0	.0	.0	.0	1.0
E	.0	.0	1.0	2.0	.0	.0	.0	3.0
ESE	.0	.0	1.0	.0	.0	.0	.0	1.0
SE	.0	.0	1.0	.0	.0	.0	.0	1.0
SSE	.0	.0	11.0	10.0	1.0	.0	.0	22.0
S	.0	.0	12.0	2.0	.0	.0	.0	14.0
SSW	.0	.0	1.0	2.0	2.0	.0	.0	5.0
SW	.0	.0	4.0	.0	.0	.0	.0	4.0
WSW	.0	.0	3.0	1.0	2.0	2.0	.0	8.0
W	.0	.0	.0	3.0	1.0	.0	.0	4.0
WNW	.0	.0	.0	4.0	3.0	4.0	2.0	13.0
NW	.0	.0	4.0	2.0	4.0	5.0	.0	15.0
NNW	.0	.0	3.0	1.0	6.0	.0	3.0	13.0
TOTAL	.0	.0	47.0	44.0	21.0	13.0	7.0	132.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	4.0	8.0	2.0	1.0	5.0	20.0
NNE	.0	.0	6.0	4.0	4.0	.0	.0	14.0
NE	.0	.0	1.0	5.0	.0	.0	.0	6.0
ENE	.0	1.0	.0	.0	.0	.0	.0	1.0
E	.0	.0	.0	1.0	.0	.0	.0	1.0
ESE	.0	.0	1.0	.0	.0	.0	.0	1.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	7.0	4.0	3.0	.0	.0	14.0
S	.0	.0	9.0	5.0	1.0	.0	.0	15.0
SSW	.0	.0	10.0	2.0	4.0	1.0	.0	17.0
SW	.0	.0	7.0	1.0	2.0	.0	.0	10.0
WSW	.0	1.0	2.0	1.0	.0	.0	.0	4.0
W	.0	.0	4.0	2.0	1.0	.0	.0	7.0
WNW	.0	.0	3.0	.0	5.0	4.0	1.0	13.0
NW	.0	.0	2.0	2.0	5.0	4.0	2.0	15.0
NNW	.0	.0	5.0	3.0	4.0	1.0	2.0	15.0
TOTAL	.0	2.0	61.0	38.0	31.0	11.0	10.0	153.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	5.0	22.0	16.0	20.0	11.0	7.0	81.0
NNE	.0	13.0	17.0	32.0	10.0	.0	.0	72.0
NE	.0	8.0	10.0	15.0	2.0	.0	.0	35.0
ENE	.0	8.0	.0	.0	.0	.0	.0	8.0
E	.0	1.0	5.0	.0	.0	.0	.0	6.0
ESE	.0	5.0	9.0	1.0	.0	.0	.0	15.0
SE	.0	4.0	8.0	3.0	.0	.0	.0	15.0
SSE	.0	15.0	45.0	64.0	13.0	.0	.0	137.0
S	.0	11.0	39.0	30.0	7.0	1.0	.0	88.0
SSW	.0	6.0	7.0	5.0	9.0	1.0	.0	28.0
SW	.0	3.0	5.0	6.0	5.0	.0	.0	19.0
WSW	.0	3.0	3.0	7.0	2.0	.0	.0	15.0
W	.0	1.0	5.0	10.0	4.0	2.0	1.0	23.0
WNW	.0	1.0	4.0	20.0	32.0	16.0	.0	73.0
NW	.0	5.0	4.0	28.0	60.0	21.0	2.0	120.0
NNW	.0	3.0	3.0	18.0	34.0	28.0	7.0	93.0
TOTAL	.0	92.0	186.0	255.0	198.0	80.0	17.0	828.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	4.0	21.0	10.0	2.0	3.0	3.0	43.0
NNE	.0	10.0	56.0	20.0	.0	.0	.0	86.0
NE	.0	4.0	12.0	3.0	.0	.0	.0	19.0
ENE	.0	6.0	2.0	.0	.0	.0	.0	8.0
E	.0	4.0	2.0	.0	.0	.0	.0	6.0
ESE	.0	7.0	.0	.0	.0	.0	.0	7.0
SE	.0	7.0	12.0	1.0	.0	.0	.0	20.0
SSE	.0	9.0	46.0	28.0	3.0	.0	.0	86.0
S	.0	9.0	34.0	20.0	5.0	.0	.0	68.0
SSW	.0	9.0	12.0	20.0	4.0	1.0	.0	46.0
SW	.0	6.0	7.0	9.0	1.0	1.0	.0	24.0
WSW	.0	4.0	5.0	3.0	.0	.0	.0	12.0
W	.0	1.0	5.0	7.0	4.0	.0	.0	17.0
WNW	.0	1.0	6.0	9.0	10.0	.0	.0	26.0
NW	.0	.0	6.0	19.0	8.0	.0	.0	33.0
NNW	.0	3.0	6.0	8.0	3.0	.0	.0	20.0
TOTAL	.0	84.0	232.0	157.0	40.0	5.0	3.0	521.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	8.0	18.0	2.0	.0	.0	.0	28.0
NNE	.0	7.0	21.0	6.0	.0	.0	.0	34.0
NE	.0	5.0	3.0	.0	.0	.0	.0	8.0
ENE	.0	5.0	1.0	.0	.0	.0	.0	6.0
E	.0	2.0	.0	.0	.0	.0	.0	2.0
ESE	.0	2.0	1.0	.0	.0	.0	.0	3.0
SE	.0	1.0	.0	.0	.0	.0	.0	1.0
SSE	.0	4.0	3.0	.0	.0	.0	.0	7.0
S	.0	3.0	6.0	7.0	.0	.0	.0	16.0
SSW	.0	3.0	10.0	3.0	.0	.0	.0	16.0
SW	.0	10.0	7.0	1.0	.0	.0	.0	18.0
WSW	.0	4.0	1.0	.0	.0	.0	.0	5.0
W	.0	4.0	2.0	.0	.0	.0	.0	6.0
WNW	.0	5.0	.0	2.0	1.0	.0	.0	8.0
NW	.0	3.0	1.0	7.0	.0	.0	.0	11.0
NNW	.0	4.0	4.0	3.0	.0	.0	.0	11.0
TOTAL	.0	70.0	78.0	31.0	1.0	.0	.0	180.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90
 MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	1.0	5.0	1.0	.0	.0	.0	7.0
NNE	.0	3.0	4.0	1.0	.0	.0	.0	8.0
NE	.0	3.0	.0	.0	.0	.0	.0	3.0
ENE	.0	1.0	.0	.0	.0	.0	.0	1.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.0	.0	.0	.0	.0	.0	1.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	2.0	2.0	2.0	1.0	.0	.0	7.0
SSW	.0	2.0	1.0	.0	.0	.0	.0	3.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	1.0	.0	.0	.0	.0	.0	1.0
W	.0	2.0	2.0	.0	.0	.0	.0	4.0
WNW	.0	.0	1.0	.0	.0	.0	.0	1.0
NW	.0	1.0	.0	.0	.0	.0	.0	1.0
NNW	.0	1.0	3.0	1.0	.0	.0	.0	5.0
TOTAL	.0	18.0	18.0	5.0	1.0	.0	.0	42.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	18.0	73.0	66.0	34.0	21.0	17.0	229.0
NNE	.0	33.0	107.0	66.0	15.0	.0	.0	221.0
NE	.0	20.0	29.0	28.0	2.0	.0	.0	79.0
ENE	.0	21.0	3.0	1.0	.0	.0	.0	25.0
E	.0	7.0	8.0	5.0	.0	.0	.0	20.0
ESE	.0	14.0	12.0	1.0	.0	.0	.0	27.0
SE	.0	13.0	21.0	7.0	.0	.0	.0	41.0
SSE	.0	28.0	129.0	134.0	32.0	1.0	.0	324.0
S	.0	25.0	109.0	81.0	17.0	1.0	.0	233.0
SSW	.0	20.0	41.0	33.0	22.0	6.0	2.0	124.0
SW	.0	19.0	31.0	19.0	8.0	4.0	.0	81.0
WSW	.0	13.0	16.0	18.0	4.0	3.0	1.0	55.0
W	.0	8.0	18.0	32.0	16.0	5.0	1.0	80.0
WNW	.0	7.0	15.0	49.0	60.0	34.0	7.0	172.0
NW	.0	9.0	22.0	62.0	102.0	55.0	15.0	265.0
NNW	.0	11.0	24.0	45.0	71.0	39.0	14.0	204.0
TOTAL	.0	266.0	658.0	647.0	383.0	169.0	57.0	2180.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	1.0	.0	.0	6.0	7.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	1.0	.0	.0	.0	1.0
SSE	.0	.0	.0	4.0	4.0	.0	.0	8.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	1.0	.0	.0	1.0
WNW	.0	.0	.0	2.0	1.0	2.0	.0	5.0
NW	.0	.0	.0	.0	1.0	2.0	2.0	5.0
NNW	.0	.0	.0	.0	.0	1.0	.0	1.0
TOTAL	.0	.0	.0	8.0	7.0	5.0	8.0	28.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	3.0	8.0	5.0	2.0	18.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	1.0	.0	.0	.0	1.0
SSE	.0	.0	2.0	11.0	6.0	1.0	.0	20.0
S	.0	.0	.0	3.0	2.0	.0	.0	5.0
SSW	.0	.0	.0	.0	1.0	.0	2.0	3.0
SW	.0	.0	.0	2.0	.0	.0	.0	2.0
WSW	.0	.0	.0	1.0	2.0	.0	.0	3.0
W	.0	.0	.0	2.0	4.0	.0	.0	6.0
WNW	.0	.0	.0	3.0	7.0	3.0	4.0	17.0
NW	.0	.0	1.0	2.0	6.0	13.0	5.0	27.0
NNW	.0	.0	.0	2.0	14.0	4.0	1.0	21.0
TOTAL	.0	.0	3.0	30.0	50.0	26.0	14.0	123.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	17.0	7.0	3.0	.0	27.0
NNE	.0	.0	2.0	4.0	.0	1.0	.0	7.0
NE	.0	.0	3.0	3.0	.0	.0	.0	6.0
ENE	.0	.0	.0	2.0	1.0	.0	.0	3.0
E	.0	.0	1.0	2.0	.0	.0	.0	3.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	1.0	.0	.0	.0	1.0
SSE	.0	.0	13.0	16.0	5.0	1.0	.0	35.0
S	.0	.0	3.0	5.0	2.0	.0	.0	10.0
SSW	.0	.0	.0	.0	1.0	1.0	3.0	5.0
SW	.0	.0	1.0	1.0	.0	3.0	.0	5.0
WSW	.0	.0	1.0	3.0	1.0	.0	2.0	7.0
W	.0	.0	1.0	6.0	1.0	3.0	2.0	13.0
WNW	.0	.0	1.0	5.0	3.0	7.0	6.0	22.0
NW	.0	.0	5.0	5.0	7.0	15.0	11.0	43.0
NNW	.0	.0	4.0	2.0	8.0	4.0	1.0	19.0
TOTAL	.0	.0	35.0	72.0	36.0	38.0	25.0	206.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	3.0	21.0	35.0	29.0	12.0	20.0	120.0
NNE	.0	4.0	19.0	22.0	23.0	.0	.0	68.0
NE	.0	8.0	11.0	20.0	12.0	.0	.0	51.0
ENE	.0	6.0	6.0	.0	.0	1.0	.0	13.0
E	.0	6.0	2.0	3.0	.0	.0	.0	11.0
ESE	.0	3.0	11.0	1.0	.0	.0	.0	15.0
SE	.0	8.0	13.0	8.0	3.0	.0	.0	32.0
SSE	.0	12.0	63.0	65.0	48.0	5.0	.0	193.0
S	.0	6.0	44.0	51.0	15.0	3.0	.0	119.0
SSW	.0	5.0	16.0	15.0	15.0	7.0	1.0	59.0
SW	.0	2.0	8.0	6.0	6.0	5.0	.0	27.0
WSW	.0	3.0	5.0	6.0	5.0	1.0	1.0	21.0
W	.0	1.0	4.0	12.0	16.0	9.0	2.0	44.0
WNW	.0	2.0	11.0	18.0	43.0	37.0	6.0	117.0
NW	.0	3.0	8.0	16.0	83.0	42.0	13.0	165.0
NNW	.0	3.0	9.0	21.0	35.0	35.0	22.0	125.0
TOTAL	.0	75.0	251.0	299.0	333.0	157.0	65.0	1180.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	4.0	18.0	15.0	3.0	.0	.0	40.0
NNE	.0	3.0	19.0	12.0	3.0	.0	.0	37.0
NE	.0	6.0	6.0	4.0	.0	.0	.0	16.0
ENE	.0	6.0	4.0	.0	.0	.0	.0	10.0
E	.0	8.0	2.0	1.0	.0	.0	.0	11.0
ESE	.0	7.0	2.0	.0	.0	.0	.0	9.0
SE	.0	7.0	4.0	.0	.0	.0	.0	11.0
SSE	.0	9.0	26.0	27.0	2.0	2.0	.0	66.0
S	.0	9.0	40.0	28.0	7.0	2.0	.0	86.0
SSW	.0	15.0	18.0	32.0	8.0	1.0	.0	74.0
SW	.0	4.0	15.0	8.0	3.0	1.0	1.0	32.0
WSW	.0	5.0	7.0	4.0	1.0	.0	.0	17.0
W	.0	3.0	7.0	7.0	2.0	.0	.0	19.0
WNW	.0	.0	2.0	4.0	6.0	.0	.0	12.0
NW	.0	3.0	9.0	17.0	7.0	1.0	.0	37.0
NNW	.0	5.0	11.0	9.0	5.0	.0	.0	30.0
TOTAL	.0	94.0	190.0	168.0	47.0	7.0	1.0	507.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.1	4.0	13.0	7.0	.0	.0	.0	24.1
NNE	.0	.0	2.0	2.0	.0	.0	.0	4.0
NE	.0	1.0	.0	.0	.0	.0	.0	1.0
ENE	.0	1.0	.0	.0	.0	.0	.0	1.0
E	.0	1.0	1.0	.0	.0	.0	.0	2.0
ESE	.0	1.0	2.0	.0	.0	.0	.0	3.0
SE	.1	6.0	1.0	.0	.0	.0	.0	7.1
SSE	.1	5.0	.0	.0	.0	.0	.0	5.1
S	.1	6.0	7.0	.0	1.0	.0	.0	14.1
SSW	.1	6.0	3.0	2.0	3.0	.0	.0	14.1
SW	.2	8.0	4.0	.0	.0	.0	.0	12.2
WSW	.1	4.0	1.0	2.0	.0	.0	.0	7.1
W	.0	1.0	.0	1.0	.0	.0	.0	2.0
WNW	.0	1.0	2.0	1.0	.0	1.0	.0	5.0
NW	.1	3.0	3.0	2.0	2.0	.0	.0	10.1
NNW	.1	4.0	12.0	4.0	1.0	.0	.0	21.1
TOTAL	1.0	52.0	51.0	21.0	7.0	1.0	.0	133.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	1.0	2.0	.0	.0	.0	3.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	1.0	2.0	.0	.0	.0	3.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - APR/MAY/JUN 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 4/ 1/ 0] TO [1997/ 6/30/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.1	11.0	52.0	78.0	47.0	20.0	28.0	236.1
NNE	.0	7.0	42.0	40.0	26.0	1.0	.0	116.0
NE	.0	15.0	20.0	27.0	12.0	.0	.0	74.0
ENE	.0	13.0	10.0	2.0	1.0	1.0	.0	27.0
E	.0	15.0	6.0	6.0	.0	.0	.0	27.0
ESE	.0	11.0	15.0	1.0	.0	.0	.0	27.0
SE	.1	21.0	18.0	11.0	3.0	.0	.0	53.1
SSE	.1	26.0	104.0	123.0	65.0	9.0	.0	327.1
S	.1	21.0	94.0	87.0	27.0	5.0	.0	234.1
SSW	.1	26.0	37.0	49.0	28.0	9.0	6.0	155.1
SW	.2	14.0	28.0	17.0	9.0	9.0	1.0	78.2
WSW	.1	12.0	14.0	16.0	9.0	1.0	3.0	55.1
W	.0	5.0	13.0	30.0	24.0	12.0	4.0	88.0
WNW	.0	3.0	16.0	33.0	60.0	50.0	16.0	178.0
NW	.1	9.0	26.0	42.0	106.0	73.0	31.0	287.1
NNW	.1	12.0	36.0	38.0	63.0	44.0	24.0	217.1
TOTAL	1.0	221.0	531.0	600.0	480.0	234.0	113.0	2180.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 4

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2180

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	52.0	13.0	.0	.0	.0	65.0
NNE	.0	.0	3.0	3.0	.0	.0	.0	6.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	19.0	.0	.0	.0	.0	19.0
S	.0	.0	44.0	12.0	.0	.0	.0	56.0
SSW	.0	.0	9.0	2.0	.0	.0	.0	11.0
SW	.0	.0	15.0	.0	.0	.0	.0	15.0
WSW	.0	1.0	9.0	.0	.0	.0	.0	10.0
W	.0	.0	15.0	.0	.0	.0	.0	15.0
WNW	.0	1.0	11.0	1.0	.0	.0	.0	13.0
NW	.0	.0	7.0	2.0	.0	.0	.0	9.0
NNW	.0	.0	21.0	2.0	.0	.0	.0	23.0
TOTAL	.0	2.0	205.0	35.0	.0	.0	.0	242.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)						TOTAL	
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00		24.00 - 80.00
N	.0	.0	30.0	6.0	.0	.0	.0	36.0
NNE	.0	.0	7.0	3.0	.0	.0	.0	10.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	1.0	8.0	1.0	.0	.0	.0	10.0
S	.0	3.0	30.0	6.0	.0	.0	.0	39.0
SSW	.0	1.0	9.0	2.0	.0	.0	.0	12.0
SW	.0	.0	12.0	1.0	.0	.0	.0	13.0
WSW	.0	.0	7.0	.0	.0	.0	.0	7.0
W	.0	2.0	8.0	.0	.0	.0	.0	10.0
WNW	.0	1.0	1.0	.0	.0	.0	.0	2.0
NW	.0	2.0	.0	.0	.0	.0	.0	2.0
NNW	.0	.0	3.0	.0	.0	.0	.0	3.0
TOTAL	.0	10.0	115.0	19.0	.0	.0	.0	144.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90
 MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	2.0	37.0	2.0	.0	.0	.0	41.0
NNE	.0	2.0	15.0	1.0	.0	.0	.0	18.0
NE	.0	.0	3.0	.0	.0	.0	.0	3.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	1.0	.0	.0	.0	.0	.0	1.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	1.0	.0	.0	.0	.0	1.0
SSE	.0	4.0	5.0	.0	.0	.0	.0	9.0
S	.0	9.0	17.0	1.0	.0	.0	.0	27.0
SSW	.0	3.0	8.0	1.0	.0	.0	.0	12.0
SW	.0	.0	9.0	1.0	.0	.0	.0	10.0
WSW	.0	1.0	8.0	.0	.0	.0	.0	9.0
W	.0	2.0	2.0	1.0	.0	.0	.0	5.0
WNW	.0	3.0	1.0	.0	.0	.0	.0	4.0
NW	.0	1.0	2.0	.0	.0	.0	.0	3.0
NNW	.0	1.0	4.0	.0	.0	.0	.0	5.0
TOTAL	.0	29.0	112.0	7.0	.0	.0	.0	148.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	16.0	92.0	8.0	.0	.0	.0	116.0
NNE	.0	21.0	110.0	39.0	.0	.0	.0	170.0
NE	.0	19.0	33.0	.0	.0	.0	.0	52.0
ENE	.0	24.0	13.0	.0	.0	.0	.0	37.0
E	.0	14.0	8.0	.0	.0	.0	.0	22.0
ESE	.0	15.0	2.0	.0	.0	.0	.0	17.0
SE	.0	12.0	.0	.0	.0	.0	.0	12.0
SSE	.0	17.0	36.0	.0	.0	.0	.0	53.0
S	.0	32.0	71.0	13.0	.0	.0	.0	116.0
SSW	.0	18.0	21.0	4.0	.0	.0	.0	43.0
SW	.0	14.0	10.0	.0	.0	.0	.0	24.0
WSW	.0	12.0	11.0	3.0	.0	.0	.0	26.0
W	.0	4.0	10.0	.0	.0	.0	.0	14.0
WNW	.0	8.0	4.0	.0	.0	.0	.0	12.0
NW	.0	2.0	2.0	1.0	.0	.0	.0	5.0
NNW	.0	6.0	11.0	1.0	.0	.0	.0	18.0
TOTAL	.0	234.0	434.0	69.0	.0	.0	.0	737.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.1	23.0	3.0	1.0	.0	.0	.0	27.1
NNE	.1	58.0	89.0	1.0	.0	.0	.0	148.1
NE	.1	44.0	48.0	.0	.0	.0	.0	92.1
ENE	.1	21.0	6.0	.0	.0	.0	.0	27.1
E	.1	25.0	.0	.0	.0	.0	.0	25.1
ESE	.0	17.0	1.0	.0	.0	.0	.0	18.0
SE	.0	17.0	.0	.0	.0	.0	.0	17.0
SSE	.1	23.0	10.0	.0	.0	.0	.0	33.1
S	.1	56.0	47.0	6.0	.0	.0	.0	109.1
SSW	.1	45.0	22.0	.0	.0	.0	.0	67.1
SW	.0	18.0	2.0	1.0	.0	.0	.0	21.0
WSW	.0	18.0	4.0	1.0	.0	.0	.0	23.0
W	.0	6.0	5.0	.0	.0	.0	.0	11.0
WNW	.0	4.0	3.0	.0	.0	.0	.0	7.0
NW	.0	7.0	2.0	.0	.0	.0	.0	9.0
NNW	.0	18.0	2.0	.0	.0	.0	.0	20.0
TOTAL	1.0	400.0	244.0	10.0	.0	.0	.0	655.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	20.0	.0	.0	.0	.0	.0	20.0
NNE	.0	26.0	20.0	.0	.0	.0	.0	46.0
NE	.0	22.0	11.0	.0	.0	.0	.0	33.0
ENE	.0	13.0	2.0	.0	.0	.0	.0	15.0
E	.0	15.0	1.0	.0	.0	.0	.0	16.0
ESE	.0	11.0	.0	.0	.0	.0	.0	11.0
SE	.0	11.0	.0	.0	.0	.0	.0	11.0
SSE	.0	8.0	.0	.0	.0	.0	.0	8.0
S	.0	11.0	.0	.0	.0	.0	.0	11.0
SSW	.0	7.0	.0	.0	.0	.0	.0	7.0
SW	.0	5.0	.0	.0	.0	.0	.0	5.0
WSW	.0	1.0	.0	.0	.0	.0	.0	1.0
W	.0	4.0	.0	.0	.0	.0	.0	4.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	3.0	.0	.0	.0	.0	.0	3.0
NNW	.0	4.0	.0	.0	.0	.0	.0	4.0
TOTAL	.0	161.0	34.0	.0	.0	.0	.0	195.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	2.0	.0	.0	.0	.0	.0	2.0
ENE	.0	1.0	.0	.0	.0	.0	.0	1.0
E	.0	2.0	.0	.0	.0	.0	.0	2.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	1.0	.0	.0	.0	.0	.0	1.0
NNW	.0	1.0	.0	.0	.0	.0	.0	1.0
TOTAL	.0	7.0	.0	.0	.0	.0	.0	7.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.1	61.0	214.0	30.0	.0	.0	.0	305.1
NNE	.1	107.0	244.0	47.0	.0	.0	.0	398.1
NE	.1	87.0	95.0	.0	.0	.0	.0	182.1
ENE	.1	59.0	21.0	.0	.0	.0	.0	80.1
E	.1	57.0	9.0	.0	.0	.0	.0	66.1
ESE	.0	43.0	3.0	.0	.0	.0	.0	46.0
SE	.0	40.0	1.0	.0	.0	.0	.0	41.0
SSE	.1	53.0	78.0	1.0	.0	.0	.0	132.1
S	.1	111.0	209.0	38.0	.0	.0	.0	358.1
SSW	.1	74.0	69.0	9.0	.0	.0	.0	152.1
SW	.0	37.0	48.0	3.0	.0	.0	.0	88.0
WSW	.0	33.0	39.0	4.0	.0	.0	.0	76.0
W	.0	18.0	40.0	1.0	.0	.0	.0	59.0
WNW	.0	17.0	20.0	1.0	.0	.0	.0	38.0
NW	.0	16.0	13.0	3.0	.0	.0	.0	32.0
NNW	.0	30.0	41.0	3.0	.0	.0	.0	74.0
TOTAL	1.0	843.0	1144.0	140.0	.0	.0	.0	2128.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	7.0	23.0	11.0	2.0	.0	43.0
NNE	.0	.0	1.0	.0	1.0	.0	.0	2.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	23.0	28.0	2.0	.0	.0	53.0
S	.0	.0	10.0	5.0	4.0	.0	.0	19.0
SSW	.0	.0	1.0	5.0	4.0	.0	.0	10.0
SW	.0	.0	3.0	5.0	1.0	.0	.0	9.0
WSW	.0	.0	3.0	6.0	1.0	.0	.0	10.0
W	.0	.0	5.0	6.0	2.0	.0	.0	13.0
WNW	.0	.0	5.0	13.0	2.0	3.0	1.0	24.0
NW	.0	.0	4.0	5.0	16.0	5.0	1.0	31.0
NNW	.0	.0	8.0	6.0	12.0	2.0	.0	28.0
TOTAL	.0	.0	70.0	102.0	56.0	12.0	2.0	242.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	18.0	10.0	8.0	.0	.0	36.0
NNE	.0	.0	1.0	.0	.0	.0	.0	1.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	1.0	.0	.0	.0	.0	1.0
SSE	.0	.0	11.0	7.0	2.0	.0	.0	20.0
S	.0	.0	13.0	6.0	3.0	.0	.0	22.0
SSW	.0	.0	7.0	1.0	5.0	.0	.0	13.0
SW	.0	.0	5.0	2.0	3.0	.0	.0	10.0
WSW	.0	.0	4.0	3.0	.0	1.0	.0	8.0
W	.0	.0	2.0	3.0	3.0	.0	.0	8.0
WNW	.0	.0	4.0	3.0	3.0	.0	.0	10.0
NW	.0	.0	3.0	1.0	1.0	.0	.0	5.0
NNW	.0	.0	6.0	1.0	3.0	.0	.0	10.0
TOTAL	.0	.0	75.0	37.0	31.0	1.0	.0	144.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	19.0	10.0	2.0	.0	.0	31.0
NNE	.0	.0	7.0	3.0	.0	.0	.0	10.0
NE	.0	.0	1.0	.0	.0	.0	.0	1.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	1.0	.0	.0	.0	.0	.0	1.0
ESE	.0	.0	.0	1.0	.0	.0	.0	1.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	4.0	10.0	4.0	.0	.0	.0	18.0
S	.0	1.0	12.0	2.0	1.0	.0	.0	16.0
SSW	.0	.0	7.0	2.0	.0	.0	.0	9.0
SW	.0	.0	6.0	.0	1.0	.0	.0	7.0
WSW	.0	1.0	3.0	3.0	2.0	1.0	.0	10.0
W	.0	2.0	1.0	3.0	2.0	1.0	.0	9.0
WNW	.0	.0	3.0	2.0	.0	.0	1.0	6.0
NW	.0	1.0	5.0	5.0	1.0	.0	.0	12.0
NNW	.0	.0	13.0	3.0	.0	1.0	.0	17.0
TOTAL	.0	10.0	87.0	38.0	9.0	3.0	1.0	148.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	2.0	24.0	53.0	35.0	6.0	.0	120.0
NNE	.0	4.0	35.0	36.0	4.0	.0	.0	79.0
NE	.0	11.0	28.0	15.0	.0	.0	.0	54.0
ENE	.0	8.0	13.0	3.0	.0	.0	.0	24.0
E	.0	7.0	14.0	8.0	1.0	.0	.0	30.0
ESE	.0	3.0	15.0	9.0	1.0	.0	.0	28.0
SE	.0	3.0	4.0	5.0	4.0	.0	.0	16.0
SSE	.0	12.0	12.0	36.0	10.0	.0	.0	70.0
S	.0	17.0	20.0	35.0	8.0	.0	.0	80.0
SSW	.0	5.0	15.0	9.0	3.0	.0	.0	32.0
SW	.0	4.0	7.0	6.0	9.0	.0	.0	26.0
WSW	.0	2.0	1.0	7.0	4.0	1.0	.0	15.0
W	.0	1.0	9.0	14.0	4.0	2.0	.0	30.0
WNW	.0	2.0	6.0	8.0	3.0	2.0	.0	21.0
NW	.0	1.0	3.0	12.0	12.0	7.0	3.0	38.0
NNW	.0	2.0	9.0	24.0	32.0	7.0	.0	74.0
TOTAL	.0	84.0	215.0	280.0	130.0	25.0	3.0	737.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	10.0	21.0	5.0	1.0	.0	.0	37.0
NNE	.0	20.0	131.0	45.0	.0	.0	.0	196.0
NE	.0	10.0	11.0	3.0	.0	.0	.0	24.0
ENE	.0	2.0	4.0	.0	.0	.0	.0	6.0
E	.0	4.0	1.0	2.0	.0	.0	.0	7.0
ESE	.0	2.0	3.0	3.0	1.0	.0	.0	9.0
SE	.0	7.0	6.0	2.0	.0	.0	.0	15.0
SSE	.0	3.0	19.0	15.0	.0	.0	.0	37.0
S	.0	5.0	23.0	32.0	6.0	.0	.0	66.0
SSW	.0	6.0	38.0	27.0	5.0	.0	.0	76.0
SW	.0	9.0	19.0	20.0	1.0	.0	.0	49.0
WSW	.0	9.0	9.0	11.0	1.0	1.0	.0	31.0
W	.0	6.0	12.0	13.0	5.0	1.0	.0	37.0
WNW	.0	2.0	6.0	3.0	3.0	.0	.0	14.0
NW	.0	6.0	7.0	13.0	1.0	2.0	.0	29.0
NNW	.0	7.0	5.0	9.0	1.0	.0	.0	22.0
TOTAL	.0	108.0	315.0	203.0	25.0	4.0	.0	655.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	10.0	15.0	6.0	.0	.0	.0	31.0
NNE	.0	8.0	34.0	7.0	.0	.0	.0	49.0
NE	.0	10.0	3.0	.0	.0	.0	.0	13.0
ENE	.0	1.0	1.0	.0	.0	.0	.0	2.0
E	.0	2.0	.0	.0	.0	.0	.0	2.0
ESE	.0	2.0	1.0	.0	.0	.0	.0	3.0
SE	.0	2.0	1.0	.0	.0	.0	.0	3.0
SSE	.0	3.0	.0	.0	.0	.0	.0	3.0
S	.0	5.0	7.0	2.0	.0	.0	.0	14.0
SSW	.0	6.0	22.0	4.0	.0	.0	.0	32.0
SW	.0	1.0	6.0	1.0	.0	.0	.0	8.0
WSW	.0	4.0	.0	.0	.0	.0	.0	4.0
W	.0	2.0	3.0	2.0	.0	.0	.0	7.0
WNW	.0	2.0	4.0	.0	.0	.0	.0	6.0
NW	.0	5.0	3.0	.0	.0	.0	.0	8.0
NNW	.0	8.0	2.0	.0	.0	.0	.0	10.0
TOTAL	.0	71.0	102.0	22.0	.0	.0	.0	195.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)						TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	
N	.0	.0	.0	.0	.0	.0	.0
NNE	.0	2.0	.0	.0	.0	.0	2.0
NE	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0
SSE	.0	1.0	.0	.0	.0	.0	1.0
S	.0	1.0	.0	.0	.0	.0	1.0
SSW	.0	1.0	.0	.0	.0	.0	1.0
SW	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0
WNW	.0	1.0	.0	.0	.0	.0	1.0
NW	.0	.0	.0	.0	.0	.0	.0
NNW	.0	1.0	.0	.0	.0	.0	1.0
TOTAL	.0	7.0	.0	.0	.0	.0	7.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	22.0	104.0	107.0	57.0	8.0	.0	298.0
NNE	.0	34.0	209.0	91.0	5.0	.0	.0	339.0
NE	.0	31.0	43.0	18.0	.0	.0	.0	92.0
ENE	.0	11.0	18.0	3.0	.0	.0	.0	32.0
E	.0	14.0	15.0	10.0	1.0	.0	.0	40.0
ESE	.0	7.0	19.0	13.0	2.0	.0	.0	41.0
SE	.0	12.0	12.0	7.0	4.0	.0	.0	35.0
SSE	.0	23.0	75.0	90.0	14.0	.0	.0	202.0
S	.0	29.0	85.0	82.0	22.0	.0	.0	218.0
SSW	.0	18.0	90.0	48.0	17.0	.0	.0	173.0
SW	.0	14.0	46.0	34.0	15.0	.0	.0	109.0
WSW	.0	16.0	20.0	30.0	8.0	4.0	.0	78.0
W	.0	11.0	32.0	41.0	16.0	4.0	.0	104.0
WNW	.0	7.0	28.0	29.0	11.0	5.0	2.0	82.0
NW	.0	13.0	25.0	36.0	31.0	14.0	4.0	123.0
NNW	.0	18.0	43.0	43.0	48.0	10.0	.0	162.0
TOTAL	.0	280.0	864.0	682.0	251.0	45.0	6.0	2128.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)						TOTAL	
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00		24.00 - 80.00
N	.0	.0	.0	.0	1.0	.0	.0	1.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	3.0	5.0	.0	.0	8.0
S	.0	.0	.0	1.0	.0	.0	.0	1.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	2.0	1.0	.0	.0	3.0
WNW	.0	.0	.0	5.0	.0	2.0	.0	7.0
NW	.0	.0	.0	.0	.0	3.0	1.0	4.0
NNW	.0	.0	.0	.0	4.0	.0	.0	4.0
TOTAL	.0	.0	.0	11.0	11.0	5.0	1.0	28.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	11.0	9.0	.0	.0	20.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	6.0	6.0	1.0	.0	.0	13.0
S	.0	.0	.0	.0	2.0	.0	.0	2.0
SSW	.0	.0	.0	.0	2.0	.0	.0	2.0
SW	.0	.0	.0	3.0	1.0	.0	.0	4.0
WSW	.0	.0	1.0	3.0	.0	.0	.0	4.0
W	.0	.0	1.0	3.0	.0	.0	.0	4.0
WNW	.0	.0	.0	6.0	1.0	1.0	.0	8.0
NW	.0	.0	1.0	4.0	5.0	.0	.0	10.0
NNW	.0	.0	1.0	.0	6.0	4.0	1.0	12.0
TOTAL	.0	.0	10.0	36.0	27.0	5.0	1.0	79.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	15.0	20.0	9.0	4.0	.0	48.0
NNE	.0	.0	2.0	4.0	2.0	.0	.0	8.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	1.0	.0	.0	.0	.0	1.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	1.0	.0	.0	.0	.0	1.0
SSE	.0	.0	8.0	6.0	4.0	.0	.0	18.0
S	.0	.0	16.0	5.0	1.0	.0	.0	22.0
SSW	.0	.0	5.0	3.0	5.0	.0	.0	13.0
SW	.0	.0	3.0	3.0	1.0	.0	.0	7.0
WSW	.0	.0	2.0	4.0	3.0	.0	.0	9.0
W	.0	.0	1.0	6.0	1.0	.0	.0	8.0
WNW	.0	.0	4.0	6.0	1.0	1.0	.0	12.0
NW	.0	.0	3.0	4.0	4.0	2.0	1.0	14.0
NNW	.0	.0	9.0	6.0	3.0	4.0	.0	22.0
TOTAL	.0	.0	70.0	67.0	34.0	11.0	1.0	183.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	5.0	45.0	51.0	77.0	7.0	3.0	188.0
NNE	.0	1.0	26.0	38.0	21.0	.0	.0	86.0
NE	.0	8.0	14.0	14.0	2.0	.0	.0	38.0
ENE	.0	12.0	8.0	10.0	1.0	.0	.0	31.0
E	.0	10.0	8.0	13.0	4.0	1.0	.0	36.0
ESE	.0	6.0	10.0	16.0	7.0	.0	.0	39.0
SE	.0	5.0	4.0	8.0	.0	.0	.0	17.0
SSE	.0	14.0	21.0	33.0	42.0	.0	.0	110.0
S	.0	16.0	50.0	36.0	33.0	2.0	.0	137.0
SSW	.0	5.0	31.0	26.0	12.0	.0	.0	74.0
SW	.0	6.0	15.0	12.0	16.0	2.0	.0	51.0
WSW	.0	1.0	6.0	15.0	9.0	4.0	.0	35.0
W	.0	1.0	10.0	21.0	9.0	7.0	2.0	50.0
WNW	.0	1.0	11.0	14.0	10.0	2.0	2.0	40.0
NW	.0	4.0	9.0	13.0	18.0	11.0	5.0	60.0
NNW	.0	1.0	21.0	26.0	26.0	11.0	2.0	87.0
TOTAL	.0	96.0	289.0	346.0	287.0	47.0	14.0	1079.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	7.0	28.0	20.0	1.0	1.0	.0	57.0
NNE	.0	4.0	13.0	13.0	.0	.0	.0	30.0
NE	.0	7.0	11.0	6.0	.0	.0	.0	24.0
ENE	.0	4.0	7.0	.0	1.0	.0	.0	12.0
E	.0	10.0	2.0	2.0	.0	.0	.0	14.0
ESE	.0	4.0	6.0	.0	1.0	1.0	.0	12.0
SE	.0	5.0	2.0	2.0	1.0	.0	.0	10.0
SSE	.0	6.0	14.0	11.0	1.0	.0	.0	32.0
S	.0	13.0	27.0	26.0	4.0	.0	.0	70.0
SSW	.0	13.0	29.0	37.0	10.0	.0	.0	89.0
SW	.0	22.0	26.0	23.0	6.0	2.0	.0	79.0
WSW	.0	9.0	20.0	11.0	5.0	.0	.0	45.0
W	.0	5.0	9.0	9.0	5.0	3.0	1.0	32.0
WNW	.0	10.0	8.0	11.0	4.0	.0	.0	33.0
NW	.0	3.0	16.0	8.0	7.0	.0	1.0	35.0
NNW	.0	8.0	12.0	9.0	2.0	.0	.0	31.0
TOTAL	.0	130.0	230.0	188.0	48.0	7.0	2.0	605.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	9.0	12.0	.0	.0	.0	.0	21.0
NNE	.0	2.0	5.0	1.0	.0	.0	.0	8.0
NE	.0	.0	3.0	.0	.0	.0	.0	3.0
ENE	.0	1.0	.0	.0	.0	.0	.0	1.0
E	.0	2.0	.0	.0	.0	.0	.0	2.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	2.0	.0	.0	.0	.0	.0	2.0
SSE	.0	1.0	1.0	.0	.0	.0	.0	2.0
S	.0	3.0	1.0	.0	.0	.0	.0	4.0
SSW	.0	6.0	11.0	2.0	.0	.0	.0	19.0
SW	.0	7.0	5.0	.0	.0	.0	.0	12.0
WSW	.0	7.0	.0	1.0	.0	.0	.0	8.0
W	.0	3.0	5.0	.0	1.0	.0	.0	9.0
WNW	.0	6.0	5.0	1.0	1.0	.0	.0	13.0
NW	.0	9.0	10.0	1.0	1.0	.0	.0	21.0
NNW	.0	5.0	17.0	3.0	1.0	.0	.0	26.0
TOTAL	.0	63.0	75.0	9.0	4.0	.0	.0	151.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	1.0	.0	.0	.0	.0	.0	1.0
WNW	.0	1.0	.0	.0	.0	.0	.0	1.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	1.0	.0	.0	.0	.0	.0	1.0
TOTAL	.0	3.0	.0	.0	.0	.0	.0	3.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - JUL/AUG/SEP 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/ 7/ 1/ 0] TO [1997/ 9/30/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	21.0	100.0	102.0	97.0	12.0	3.0	335.0
NNE	.0	7.0	46.0	56.0	23.0	.0	.0	132.0
NE	.0	15.0	28.0	20.0	2.0	.0	.0	65.0
ENE	.0	17.0	15.0	10.0	2.0	.0	.0	44.0
E	.0	22.0	11.0	15.0	4.0	1.0	.0	53.0
ESE	.0	10.0	16.0	16.0	8.0	1.0	.0	51.0
SE	.0	12.0	7.0	10.0	1.0	.0	.0	30.0
SSE	.0	21.0	50.0	59.0	53.0	.0	.0	183.0
S	.0	32.0	94.0	68.0	40.0	2.0	.0	236.0
SSW	.0	24.0	76.0	68.0	29.0	.0	.0	197.0
SW	.0	35.0	49.0	41.0	24.0	4.0	.0	153.0
WSW	.0	17.0	29.0	34.0	17.0	4.0	.0	101.0
W	.0	10.0	26.0	41.0	17.0	10.0	3.0	107.0
WNW	.0	18.0	28.0	43.0	17.0	6.0	2.0	114.0
NW	.0	16.0	39.0	30.0	35.0	16.0	8.0	144.0
NNW	.0	15.0	60.0	44.0	42.0	19.0	3.0	183.0
TOTAL	.0	292.0	674.0	657.0	411.0	75.0	19.0	2128.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 80
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2128

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	11.0	.0	.0	.0	.0	11.0
NNE	.0	.0	1.0	.0	.0	.0	.0	1.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	6.0	.0	.0	.0	.0	6.0
S	.0	.0	1.0	.0	.0	.0	.0	1.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	3.0	.0	.0	.0	.0	3.0
W	.0	.0	2.0	.0	.0	.0	.0	2.0
WNW	.0	.0	7.0	1.0	.0	.0	.0	8.0
NW	.0	.0	10.0	.0	.0	.0	.0	10.0
NNW	.0	.0	3.0	.0	.0	.0	.0	3.0
TOTAL	.0	.0	44.0	1.0	.0	.0	.0	45.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	8.0	1.0	.0	.0	.0	9.0
NNE	.0	.0	3.0	1.0	.0	.0	.0	4.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	1.0	.0	.0	.0	.0	1.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	3.0	.0	.0	.0	.0	3.0
S	.0	.0	5.0	.0	.0	.0	.0	5.0
SSW	.0	.0	2.0	.0	.0	.0	.0	2.0
SW	.0	.0	3.0	.0	.0	.0	.0	3.0
WSW	.0	.0	1.0	.0	.0	.0	.0	1.0
W	.0	.0	2.0	.0	.0	.0	.0	2.0
WNW	.0	.0	2.0	4.0	.0	.0	.0	6.0
NW	.0	.0	6.0	4.0	.0	.0	.0	10.0
NNW	.0	.0	2.0	.0	.0	.0	.0	2.0
TOTAL	.0	.0	38.0	10.0	.0	.0	.0	48.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	16.0	2.0	.0	.0	.0	18.0
NNE	.0	.0	1.0	1.0	.0	.0	.0	2.0
NE	.0	.0	.0	3.0	.0	.0	.0	3.0
ENE	.0	.0	1.0	.0	.0	.0	.0	1.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	4.0	2.0	.0	.0	.0	.0	6.0
S	.0	2.0	6.0	1.0	.0	.0	.0	9.0
SSW	.0	.0	6.0	.0	.0	.0	.0	6.0
SW	.0	.0	2.0	1.0	.0	.0	.0	3.0
WSW	.0	1.0	3.0	.0	.0	.0	.0	4.0
W	.0	1.0	3.0	.0	.0	.0	.0	4.0
WNW	.0	.0	7.0	3.0	.0	.0	.0	10.0
NW	.0	.0	7.0	9.0	1.0	.0	.0	17.0
NNW	.0	.0	8.0	2.0	1.0	.0	.0	11.0
TOTAL	.0	8.0	62.0	22.0	2.0	.0	.0	94.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	2.0	17.0	107.0	21.0	.0	.0	.0	147.0
NNE	2.8	24.0	124.0	116.0	2.0	.0	.0	268.8
NE	3.7	32.0	30.0	8.0	.0	.0	.0	73.7
ENE	.3	3.0	6.0	3.0	.0	.0	.0	12.3
E	.9	8.0	5.0	.0	.0	.0	.0	13.9
ESE	1.0	9.0	.0	.0	.0	.0	.0	10.0
SE	.9	8.0	.0	.0	.0	.0	.0	8.9
SSE	2.3	20.0	13.0	2.0	.0	.0	.0	37.3
S	3.1	27.0	41.0	11.0	.0	.0	.0	82.1
SSW	1.5	13.0	19.0	4.0	.0	.0	.0	37.5
SW	1.4	12.0	6.0	1.0	.0	.0	.0	20.4
WSW	1.0	9.0	22.0	.0	.0	.0	.0	32.0
W	1.3	11.0	49.0	13.0	.0	.0	.0	74.3
WNW	.5	4.0	55.0	17.0	.0	.0	.0	76.5
NW	.6	5.0	76.0	51.0	16.0	.0	.0	148.6
NNW	.8	7.0	58.0	21.0	.0	.0	.0	86.8
TOTAL	24.0	209.0	611.0	268.0	18.0	.0	.0	1130.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.1	21.0	14.0	.0	.0	.0	.0	35.1
NNE	.1	55.0	58.0	4.0	.0	.0	.0	117.1
NE	.1	40.0	38.0	.0	.0	.0	.0	78.1
ENE	.1	22.0	2.0	.0	.0	.0	.0	24.1
E	.1	23.0	.0	.0	.0	.0	.0	23.1
ESE	.0	11.0	.0	.0	.0	.0	.0	11.0
SE	.1	25.0	1.0	.0	.0	.0	.0	26.1
SSE	.1	52.0	13.0	.0	.0	.0	.0	65.1
S	.1	47.0	33.0	10.0	.0	.0	.0	90.1
SSW	.1	32.0	10.0	1.0	.0	.0	.0	43.1
SW	.1	23.0	4.0	.0	.0	.0	.0	27.1
WSW	.1	25.0	7.0	.0	.0	.0	.0	32.1
W	.0	9.0	9.0	.0	.0	.0	.0	18.0
WNW	.0	8.0	11.0	1.0	.0	.0	.0	20.0
NW	.0	13.0	7.0	.0	.0	.0	.0	20.0
NNW	.0	9.0	7.0	.0	.0	.0	.0	16.0
TOTAL	1.0	415.0	214.0	16.0	.0	.0	.0	646.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	21.0	.0	.0	.0	.0	.0	21.0
NNE	.0	60.0	35.0	.0	.0	.0	.0	95.0
NE	.0	24.0	20.0	.0	.0	.0	.0	44.0
ENE	.0	9.0	1.0	.0	.0	.0	.0	10.0
E	.0	3.0	1.0	.0	.0	.0	.0	4.0
ESE	.0	1.0	.0	.0	.0	.0	.0	1.0
SE	.0	3.0	.0	.0	.0	.0	.0	3.0
SSE	.0	7.0	.0	.0	.0	.0	.0	7.0
S	.0	7.0	2.0	.0	.0	.0	.0	9.0
SSW	.0	4.0	.0	.0	.0	.0	.0	4.0
SW	.0	2.0	.0	.0	.0	.0	.0	2.0
WSW	.0	4.0	.0	.0	.0	.0	.0	4.0
W	.0	1.0	.0	.0	.0	.0	.0	1.0
WNW	.0	1.0	.0	.0	.0	.0	.0	1.0
NW	.0	5.0	.0	.0	.0	.0	.0	5.0
NNW	.0	5.0	.0	.0	.0	.0	.0	5.0
TOTAL	.0	157.0	59.0	.0	.0	.0	.0	216.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	7.0	.0	.0	.0	.0	.0	7.0
NNE	.0	7.0	2.0	.0	.0	.0	.0	9.0
NE	.0	1.0	1.0	.0	.0	.0	.0	2.0
ENE	.0	1.0	.0	.0	.0	.0	.0	1.0
E	.0	1.0	.0	.0	.0	.0	.0	1.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.0	.0	.0	.0	.0	.0	1.0
SSE	.0	1.0	.0	.0	.0	.0	.0	1.0
S	.0	1.0	.0	.0	.0	.0	.0	1.0
SSW	.0	1.0	.0	.0	.0	.0	.0	1.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	1.0	.0	.0	.0	.0	.0	1.0
NW	.0	1.0	.0	.0	.0	.0	.0	1.0
NNW	.0	1.0	.0	.0	.0	.0	.0	1.0
TOTAL	.0	24.0	3.0	.0	.0	.0	.0	27.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 10.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	2.0	66.0	156.0	24.0	.0	.0	.0	248.0
NNE	2.9	146.0	224.0	122.0	2.0	.0	.0	496.9
NE	3.8	97.0	89.0	11.0	.0	.0	.0	200.8
ENE	.4	35.0	11.0	3.0	.0	.0	.0	49.4
E	1.0	35.0	6.0	.0	.0	.0	.0	42.0
ESE	1.1	21.0	.0	.0	.0	.0	.0	22.1
SE	1.0	37.0	1.0	.0	.0	.0	.0	39.0
SSE	2.4	84.0	37.0	2.0	.0	.0	.0	125.4
S	3.2	84.0	88.0	22.0	.0	.0	.0	197.2
SSW	1.6	50.0	37.0	5.0	.0	.0	.0	93.6
SW	1.4	37.0	15.0	2.0	.0	.0	.0	55.4
WSW	1.1	39.0	36.0	.0	.0	.0	.0	76.1
W	1.3	22.0	65.0	13.0	.0	.0	.0	101.3
WNW	.5	14.0	82.0	26.0	.0	.0	.0	122.5
NW	.6	24.0	106.0	64.0	17.0	.0	.0	211.6
NNW	.8	22.0	78.0	23.0	1.0	.0	.0	124.8
TOTAL	25.0	813.0	1031.0	317.0	20.0	.0	.0	2206.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 10.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	1.0	7.0	2.0	.0	.0	10.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	1.0	6.0	.0	.0	.0	7.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	1.0	.0	.0	.0	1.0
W	.0	.0	1.0	1.0	.0	.0	.0	2.0
WNW	.0	.0	.0	5.0	3.0	1.0	.0	9.0
NW	.0	.0	.0	3.0	10.0	1.0	.0	14.0
NNW	.0	.0	.0	1.0	1.0	.0	.0	2.0
TOTAL	.0	.0	3.0	24.0	16.0	2.0	.0	45.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	4.0	2.0	2.0	.0	.0	8.0
NNE	.0	.0	1.0	1.0	.0	.0	.0	2.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	1.0	.0	.0	.0	1.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	3.0	4.0	.0	.0	.0	7.0
S	.0	.0	1.0	.0	.0	.0	.0	1.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	2.0	.0	.0	.0	2.0
WSW	.0	.0	2.0	1.0	.0	.0	.0	3.0
W	.0	.0	1.0	2.0	.0	.0	.0	3.0
WNW	.0	.0	.0	1.0	3.0	3.0	.0	7.0
NW	.0	.0	.0	2.0	5.0	3.0	.0	10.0
NNW	.0	.0	1.0	3.0	.0	.0	.0	4.0
TOTAL	.0	.0	13.0	19.0	10.0	6.0	.0	48.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	6.0	9.0	2.0	.0	.0	17.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	3.0	.0	.0	3.0
ENE	.0	.0	.0	1.0	.0	.0	.0	1.0
E	.0	.0	.0	1.0	.0	.0	.0	1.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	1.0	.0	.0	.0	.0	1.0
SSE	.0	.0	8.0	1.0	.0	.0	.0	9.0
S	.0	.0	6.0	1.0	1.0	.0	.0	8.0
SSW	.0	.0	.0	1.0	.0	.0	.0	1.0
SW	.0	.0	2.0	.0	.0	.0	.0	2.0
WSW	.0	1.0	2.0	2.0	3.0	.0	.0	8.0
W	.0	.0	1.0	.0	.0	.0	.0	1.0
WNW	.0	.0	1.0	4.0	4.0	2.0	.0	11.0
NW	.0	1.0	1.0	4.0	7.0	3.0	4.0	20.0
NNW	.0	.0	3.0	2.0	4.0	1.0	1.0	11.0
TOTAL	.0	2.0	31.0	26.0	24.0	6.0	5.0	94.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	9.0	55.0	93.0	83.0	12.0	.0	252.0
NNE	.0	10.0	58.0	53.0	25.0	1.0	.0	147.0
NE	.0	6.0	34.0	15.0	9.0	.0	.0	64.0
ENE	.0	5.0	5.0	5.0	1.0	.0	.0	16.0
E	.0	2.0	5.0	4.0	2.0	2.0	.0	15.0
ESE	.0	5.0	1.0	1.0	1.0	.0	.0	8.0
SE	.0	9.0	3.0	.0	.0	.0	.0	12.0
SSE	.0	12.0	18.0	13.0	.0	.0	.0	43.0
S	.0	15.0	23.0	18.0	4.0	.0	.0	60.0
SSW	.0	13.0	14.0	6.0	6.0	.0	.0	39.0
SW	.0	5.0	8.0	8.0	3.0	.0	.0	24.0
WSW	.0	5.0	6.0	10.0	5.0	.0	.0	26.0
W	.0	6.0	12.0	28.0	19.0	3.0	.0	68.0
WNW	.0	4.0	7.0	30.0	41.0	5.0	.0	87.0
NW	.0	4.0	6.0	41.0	83.0	28.0	26.0	188.0
NNW	.0	5.0	8.0	29.0	22.0	15.0	2.0	81.0
TOTAL	.0	115.0	263.0	354.0	304.0	66.0	28.0	1130.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	6.0	19.0	9.0	1.0	.0	.0	35.0
NNE	.0	19.0	90.0	29.0	2.0	.0	.0	140.0
NE	.0	13.0	14.0	3.0	2.0	.0	.0	32.0
ENE	.0	6.0	9.0	.0	.0	.0	.0	15.0
E	.0	11.0	4.0	.0	.0	.0	.0	15.0
ESE	.0	6.0	6.0	.0	.0	.0	.0	12.0
SE	.0	3.0	8.0	1.0	.0	.0	.0	12.0
SSE	.0	10.0	19.0	13.0	.0	.0	.0	42.0
S	.0	9.0	28.0	16.0	3.0	.0	.0	56.0
SSW	.0	12.0	37.0	21.0	8.0	.0	.0	78.0
SW	.0	12.0	36.0	12.0	.0	.0	.0	60.0
WSW	.0	8.0	19.0	6.0	2.0	.0	.0	35.0
W	.0	3.0	14.0	4.0	1.0	.0	.0	22.0
WNW	.0	2.0	16.0	11.0	6.0	.0	.0	35.0
NW	.0	1.0	10.0	10.0	8.0	.0	.0	29.0
NNW	.0	9.0	11.0	6.0	2.0	.0	.0	28.0
TOTAL	.0	130.0	340.0	141.0	35.0	.0	.0	646.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	15.0	12.0	2.0	.0	.0	.0	29.0
NNE	.0	12.0	40.0	15.0	.0	.0	.0	67.0
NE	.0	6.0	6.0	.0	.0	.0	.0	12.0
ENE	.0	6.0	3.0	.0	.0	.0	.0	9.0
E	.0	3.0	1.0	.0	.0	.0	.0	4.0
ESE	.0	2.0	.0	.0	.0	.0	.0	2.0
SE	.0	3.0	.0	.0	.0	.0	.0	3.0
SSE	.0	6.0	2.0	1.0	.0	.0	.0	9.0
S	.0	8.0	3.0	1.0	.0	.0	.0	12.0
SSW	.0	11.0	5.0	2.0	.0	.0	.0	18.0
SW	.0	6.0	7.0	4.0	.0	.0	.0	17.0
WSW	.0	6.0	2.0	1.0	.0	.0	.0	9.0
W	.0	8.0	.0	.0	.0	.0	.0	8.0
WNW	.0	4.0	.0	.0	.0	.0	.0	4.0
NW	.0	5.0	.0	.0	.0	.0	.0	5.0
NNW	.0	5.0	2.0	1.0	.0	.0	.0	8.0
TOTAL	.0	106.0	83.0	27.0	.0	.0	.0	216.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	3.0	1.0	1.0	.0	.0	.0	5.0
NNE	.0	4.0	.0	1.0	.0	.0	.0	5.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	1.0	.0	.0	.0	.0	.0	1.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	3.0	.0	.0	.0	.0	.0	3.0
S	.0	.0	1.0	.0	.0	.0	.0	1.0
SSW	.0	2.0	2.0	.0	.0	.0	.0	4.0
SW	.0	1.0	1.0	.0	.0	.0	.0	2.0
WSW	.0	2.0	2.0	.0	.0	.0	.0	4.0
W	.0	1.0	1.0	.0	.0	.0	.0	2.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	17.0	8.0	2.0	.0	.0	.0	27.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00

TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 60.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	33.0	98.0	123.0	90.0	12.0	.0	356.0
NNE	.0	45.0	189.0	99.0	27.0	1.0	.0	361.0
NE	.0	25.0	54.0	18.0	14.0	.0	.0	111.0
ENE	.0	17.0	17.0	7.0	1.0	.0	.0	42.0
E	.0	17.0	10.0	5.0	2.0	2.0	.0	36.0
ESE	.0	13.0	7.0	1.0	1.0	.0	.0	22.0
SE	.0	15.0	12.0	1.0	.0	.0	.0	28.0
SSE	.0	31.0	51.0	38.0	.0	.0	.0	120.0
S	.0	32.0	62.0	36.0	8.0	.0	.0	138.0
SSW	.0	38.0	58.0	30.0	14.0	.0	.0	140.0
SW	.0	24.0	54.0	26.0	3.0	.0	.0	107.0
WSW	.0	22.0	33.0	21.0	10.0	.0	.0	86.0
W	.0	18.0	30.0	35.0	20.0	3.0	.0	106.0
WNW	.0	10.0	24.0	51.0	57.0	11.0	.0	153.0
NW	.0	11.0	17.0	60.0	113.0	35.0	30.0	266.0
NNW	.0	19.0	25.0	42.0	29.0	16.0	3.0	134.0
TOTAL	.0	370.0	741.0	593.0	389.0	80.0	33.0	2206.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 60.00
 TEMPERATURE SENSOR SEPARATION (METERS) 50.90

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: A

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	1.0	.0	.0	1.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	.0	.0	1.0	.0	.0	1.0

DATA MEASUREMENT HEIGHT (M. ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: B

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	.0	2.0	1.0	.0	.0	3.0
NNE	.0	.0	.0	1.0	.0	.0	.0	1.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	4.0	.0	.0	.0	4.0
S	.0	.0	1.0	.0	.0	.0	.0	1.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	1.0	.0	.0	.0	1.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	3.0	.0	1.0	.0	4.0
NW	.0	.0	.0	.0	1.0	1.0	.0	2.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	1.0	11.0	2.0	2.0	.0	16.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: C

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	1.0	4.0	5.0	.0	.0	10.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	1.0	2.0	.0	.0	.0	3.0
S	.0	.0	2.0	.0	.0	.0	.0	2.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	1.0	.0	.0	1.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	1.0	1.0	1.0	.0	.0	3.0
WNW	.0	.0	2.0	2.0	6.0	.0	2.0	12.0
NW	.0	.0	.0	2.0	5.0	3.0	.0	10.0
NNW	.0	.0	.0	.0	.0	2.0	.0	2.0
TOTAL	.0	.0	7.0	11.0	18.0	5.0	2.0	43.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00

TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2

VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: D

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	8.0	38.0	99.0	93.0	52.0	7.0	297.0
NNE	.0	6.0	41.0	50.0	17.0	15.0	1.0	130.0
NE	.0	6.0	23.0	14.0	13.0	9.0	.0	65.0
ENE	.0	4.0	10.0	9.0	3.0	.0	.0	26.0
E	.0	3.0	11.0	1.0	3.0	2.0	3.0	23.0
ESE	.0	4.0	.0	.0	3.0	.0	.0	7.0
SE	.0	12.0	5.0	2.0	.0	.0	.0	19.0
SSE	.0	11.0	24.0	18.0	9.0	.0	.0	62.0
S	.0	7.0	31.0	19.0	10.0	1.0	.0	68.0
SSW	.0	6.0	17.0	7.0	17.0	3.0	.0	50.0
SW	.0	5.0	9.0	12.0	5.0	2.0	.0	33.0
WSW	.0	9.0	7.0	11.0	17.0	.0	.0	44.0
W	.0	6.0	9.0	30.0	31.0	11.0	2.0	89.0
WNW	.0	5.0	8.0	43.0	56.0	19.0	7.0	138.0
NW	.0	1.0	8.0	42.0	83.0	52.0	52.0	238.0
NNW	.0	9.0	10.0	14.0	33.0	12.0	9.0	87.0
TOTAL	.0	102.0	251.0	371.0	393.0	178.0	81.0	1376.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: E

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	12.0	22.0	24.0	7.0	.0	.0	65.0
NNE	.0	10.0	15.0	9.0	1.0	.0	.0	35.0
NE	.0	14.0	14.0	4.0	1.0	.0	.0	33.0
ENE	.0	11.0	5.0	2.0	.0	.0	.0	18.0
E	.0	9.0	12.0	3.0	.0	.0	.0	24.0
ESE	.0	12.0	4.0	3.0	.0	.0	.0	19.0
SE	.0	3.0	4.0	4.0	.0	.0	.0	11.0
SSE	.0	8.0	10.0	10.0	3.0	.0	.0	31.0
S	.0	9.0	49.0	18.0	4.0	.0	.0	80.0
SSW	.0	10.0	25.0	25.0	9.0	2.0	.0	71.0
SW	.0	13.0	21.0	28.0	2.0	.0	.0	64.0
WSW	.0	6.0	28.0	11.0	4.0	.0	.0	49.0
W	.0	3.0	7.0	5.0	1.0	1.0	.0	17.0
WNW	.0	5.0	12.0	7.0	7.0	.0	.0	31.0
NW	.0	9.0	8.0	5.0	2.0	.0	.0	24.0
NNW	.0	11.0	11.0	9.0	4.0	.0	.0	35.0
TOTAL	.0	145.0	247.0	167.0	45.0	3.0	.0	607.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: F

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	2.0	6.0	8.0	.0	.0	.0	16.0
NNE	.0	2.0	8.0	5.0	.0	.0	.0	15.0
NE	.0	5.0	3.0	1.0	.0	.0	.0	9.0
ENE	.0	3.0	3.0	.0	.0	.0	.0	6.0
E	.0	1.0	1.0	.0	.0	.0	.0	2.0
ESE	.0	3.0	.0	.0	.0	.0	.0	3.0
SE	.0	4.0	.0	.0	.0	.0	.0	4.0
SSE	.0	10.0	5.0	.0	.0	.0	.0	15.0
S	.0	15.0	9.0	.0	.0	.0	.0	24.0
SSW	.0	8.0	15.0	1.0	.0	.0	.0	24.0
SW	.0	5.0	6.0	2.0	.0	.0	.0	13.0
WSW	.0	.0	4.0	1.0	.0	.0	.0	5.0
W	.0	3.0	.0	2.0	1.0	.0	.0	6.0
WNW	.0	2.0	.0	.0	.0	.0	.0	2.0
NW	.0	1.0	2.0	.0	.0	.0	.0	3.0
NNW	.0	3.0	4.0	2.0	.0	.0	.0	9.0
TOTAL	.0	67.0	66.0	22.0	1.0	.0	.0	156.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: G

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	.0	1.0	.0	.0	.0	.0	1.0
NNE	.0	1.0	.0	.0	.0	.0	.0	1.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	1.0	.0	.0	.0	.0	.0	1.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	2.0	.0	.0	.0	.0	2.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	2.0	.0	.0	.0	.0	2.0
TOTAL	.0	2.0	5.0	.0	.0	.0	.0	7.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY
 OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO
 ENTRIES IN EACH STABILITY.

INDIAN POINT (UNITS 2 & 3) - JOINT FREQUENCY DISTRIBUTIONS - OCT/NOV/DEC 1997

BASIC METEOROLOGICAL OBSERVATIONS AT 122.0 (M)
 FOR PERIOD [Year/Month/Day/Hour]
 [1997/10/ 1/ 0] TO [1997/12/31/23]

PASQUILL STABILITY: ALL

WIND FROM	WIND SPEED (MPH)							TOTAL
	CALMS	.60 - 3.50	3.50 - 7.50	7.50 - 12.50	12.50 - 18.50	18.50 - 24.00	24.00 - 80.00	
N	.0	22.0	68.0	137.0	106.0	52.0	7.0	392.0
NNE	.0	19.0	64.0	65.0	18.0	15.0	1.0	182.0
NE	.0	25.0	40.0	19.0	14.0	9.0	.0	107.0
ENE	.0	19.0	18.0	11.0	3.0	.0	.0	51.0
E	.0	13.0	24.0	4.0	3.0	2.0	3.0	49.0
ESE	.0	19.0	4.0	3.0	3.0	.0	.0	29.0
SE	.0	19.0	9.0	6.0	.0	.0	.0	34.0
SSE	.0	29.0	40.0	34.0	12.0	.0	.0	115.0
S	.0	31.0	92.0	37.0	14.0	1.0	.0	175.0
SSW	.0	24.0	59.0	33.0	26.0	5.0	.0	147.0
SW	.0	23.0	36.0	42.0	8.0	2.0	.0	111.0
WSW	.0	15.0	39.0	24.0	21.0	.0	.0	99.0
W	.0	12.0	17.0	38.0	34.0	12.0	2.0	115.0
WNW	.0	12.0	22.0	55.0	69.0	20.0	9.0	187.0
NW	.0	11.0	18.0	49.0	92.0	56.0	52.0	278.0
NNW	.0	23.0	27.0	25.0	37.0	14.0	9.0	135.0
TOTAL	.0	316.0	577.0	582.0	460.0	188.0	83.0	2206.0

DATA MEASUREMENT HEIGHT (M ABOVE GRADE) 122.00
 TEMPERATURE SENSOR SEPARATION (METERS) 112.00

MISSING OBS. DURING THIS PERIOD (ALL STABILITIES) 2
 VALID OBSER. DURING THIS PERIOD (ALL STABILITIES) 2206

NOTE: CALMS WERE DISTRIBUTED IN PROPORTION TO THE FREQUENCY OF WINDS IN THE LOWEST WIND SPEED GROUP WITH NON-ZERO ENTRIES IN EACH STABILITY.

ANNUAL
EFFLUENT AND WASTE DISPOSAL REPORT
F - REPORTABLE CHANGES
TO THE PROCESS CONTROL PROGRAM (PCP)
OFFSITE DOSE CALCULATION MANUAL (ODCM)
AND RADIOACTIVE WASTE SYSTEMS

G - REPORTABLE ITEMS
THE RADIOACTIVE LIQUID EFFLUENT MONITORING
INSTRUMENTATION
RADIOACTIVE GASEOUS EFFLUENT MONITORING
INSTRUMENTATION

H - UNPLANNED RELEASES

1997

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NOS. 1 & 2
DOCKET NOS. 50-03 & 50-247
MAY, 1998

SECTION F

Reportable Changes

A. Process Control Program (PCP)

Section 6.14.1 of the Indian Point Unit No. 2 Technical Specifications requires that licensee initiated changes to PCP be reported to the Commission in the Annual Radioactive Effluent Release Report. During the 1997 reporting period there were no changes made.

B. Offsite Dose Calculation Manual (ODCM)

Section 6.15.2 of the Indian Point Unit No. 2 Technical Specifications requires that changes to ODCM be reported to the Commission in the Annual Radioactive Effluent Release Report. During the 1997 reporting period there were no changes made.

C. Radioactive Waste Systems (RWS)

Section 6.16.1 of the Indian Point Unit No. 2 Technical Specifications requires that major changes to RWS be reported to the Commission in the Annual Radioactive Effluent Release Report. During the 1997 reporting period there were no major changes made to the RWS.

SECTION G

Reportable Items

A. Radioactive Liquid Effluent Monitoring Instrumentation

During the 1997 refueling outage, R-46 and R-53 Fan Cooler Units Service Water Outlet Monitors, were out-of-service for greater than 30 days contrary to the requirements of Technical Specification 3.9.A.2.c. The monitors were out of service while maintenance activities were performed which isolated the monitors from the Service Water flow stream. During the out-of-service period for these monitors compensatory monitoring was performed by the chemistry section as required by the above Technical Specification.

During three separate 1997 outage periods, R-49, the Steam Generator Blowdown Monitor, was out of service for greater than 30 days contrary to the requirements of Technical Specification 3.9.A.2.c. The monitor was out of service since the monitor cannot pass sufficient flow to meet the monitor flow requirements with steam generators at atmospheric pressure. During releases with R-49 out-of-service compensatory monitoring was performed by the chemistry section as required by Technical Specifications.

B. Radioactive Gaseous Effluent Monitoring Instrumentation

During the period from January 1, 1997 until April 16, 1997, the Unit 1 Stack Vent Flow Rate Monitor was out-of-service for repair work on the monitor. The extended period was the result of the need to prepare a modification and obtain parts for the transmitter that the vendor had redesigned. The actions of Technical Specification 3.9.B.2.c requirements were complied with by performing compensatory action 4.

During the period from September 8, 1997 until December 31, 1997, the Unit 2 Plant Vent Flow Rate Monitor was out-of-service for repair work on the monitor. The extended time was based on delays in performing a root cause analysis for the transmitter failure and the unavailability of replacement parts. The actions of Technical Specification 3.9.B.2.c requirements were complied with by performing compensatory action 4.

During the period from January 1, 1997 through July 24, 1997 the Waste Gas Holdup System Explosive Monitoring System Hydrogen and Oxygen monitors reported in the 1996 Radiological Effluent Monitoring Report remained inoperable due to the monitor alarms. The modification previously reported, MOD FIX-93-56782-M and Post Modification Testing were completed on July 24, 1997. Subsequently the monitor was returned to operable status and Technical Specification Table 3.9-2 Action 4 was exited. The actions of Technical Specification 3.9.B.2.c requirements were complied with by performing compensatory action 4.

SECTION H

Unplanned Releases

A. Unplanned Liquid Releases

There were no unplanned liquid releases during the reporting period.

B. Unplanned Gaseous Releases

The following unplanned gaseous releases occurred during the reporting period:

On April 1, 1997 while obtaining a Vapor Containment (VC) air sample, the sample container failed. The failure resulted in releasing 0.6 SCFM of atmospheric VC sample for a period of 20 minutes to the Primary Auxiliary Building which resulted in an estimated release of $7.5E-6$ Ci through the Plant Vent. This release is estimated to be less than 0.001% of Technical Specification limits.

Between August 16, 1997 and August 18, 1997 radiogas was released from the Refueling Water Storage Tank (RWST) when valve 4055 was closed stopping flow from the RWST to the Reactor Coolant System. Since the RWST is vented to atmosphere the radiogas that was contained in the RWST was assumed to have been released resulting in an estimated unmonitored release of $5.0E-3$ Ci through the tank vent. This release is estimated to be less than 0.04% of Technical Specification limits.

Each of these events involved low gas volumes of high activity. The activity released from each event was properly quantified and accounted for. Appropriate corrective actions were identified and implemented.