

Effluent and Waste Disposal

Semi-Annual Report

July 1, 1997 - December 31, 1997

Facility Indian Point 3
Licensee New York Power Authority

This information is provided in accordance with the requirements of Regulatory Guide 1.21. The numbered sections of this report reference corresponding sections of the subject Regulatory Guide, pages 10 to 12.

A. Supplemental Information

1. Regulatory Limits

Indian Point 3 is presently subject to limits on radioactive waste releases that are set forth in sections 2.3.1, 2.3.2, 2.3.3, 2.4.1, 2.4.2, 2.4.3 and 2.4.4 of Appendix B to Docket No. 50-286 entitled "Environmental Technical Specification Requirements Part II Radiological Environmental" (ETSR). The percentages of the technical specification limits reported in Tables 1A and 2A are the percent of the quarterly limits specified in the ETSR. If more than one limit applies to the release, the most restrictive limit is reported.

2. Maximum Permissible Concentration

a) Fission and Activation Gases

The quarterly dose resulting from release of fission and activation gases is calculated in accordance with the methodology stated in the Offsite Dose Calculation Manual (ODCM). The specific isotopes listed in Table 1C are used to determine the effective dose factors for the time period.

b/c) Iodines, Tritium and Particulates

The quarterly organ dose limit for Iodine 131, tritium and particulates with half-lives greater than eight days is calculated in accordance with the methodology stated in the ODCM.

d) Liquid Effluents

The quarterly dose limit for liquid isotopic releases is calculated in accordance with the methodology stated in the ODCM. The concentration limit for noble gases dissolved in liquid releases is calculated based upon a maximum permissible concentration of 2.00E-4 uCi/ml as required by section 2.3.1.A of the ETSR.

3. Average Energy

The average energies (\bar{E}) of the radionuclide mixtures in releases of fission and activation gases were as follows:

3rd Quarter $\bar{E}_\beta = 2.23\text{E-}01$ Mev/dis $\bar{E}_\gamma = 5.50\text{E-}02$ Mev/dis

4th Quarter $\bar{E}_\beta = 3.10\text{E-}01$ Mev/dis $\bar{E}_\gamma = 6.95\text{E-}01$ Mev/dis

4. Measurements and Approximations of Total Radioactivity

a) Fission and Activation Gases

Analysis of effluent gases has been performed in compliance with the requirements of Table 3.4-1 of the ETSR. In the case of isolated tanks (batch release), the total activity discharged is based on an isotopic analysis of each batch with the volume of gas in the batch corrected to standard temperature and pressure.

Vapor containment purge discharges that are less than 150 hours/quarter in duration have been treated as batch releases and Vapor Containment pressure relief discharges have been treated as continuous releases (> 500 hrs/year and as defined in NUREG 0133, Section 3.3). At least one complete isotopic concentration analysis of containment air is performed monthly. This analysis is used in conjunction with a process monitor to obtain the isotopic mixture and quantification of each pressure relief. Isotopic analyses for each vapor containment purge are taken prior to and during the purge. This information is combined with the volume of air in each discharge to calculate the quantity of activity released from these discharges.

The continuous building discharges are based on weekly samples of ventilation air analyzed for isotopic content. This information is combined with total air volume discharged and the process radiation monitor readings to determine the quantity of activity from continuous discharges.

b/c) Iodines and Particulates

Iodine-131 and particulate releases are quantified by collecting a continuous sample of ventilation air on a TEDA impregnated, activated charcoal cartridge and a glass-fiber filter paper. These samples are changed weekly as required in Table 3.4-1 of the ETSR and the concentration of isotopes found by analysis of these samples is combined with the volume of air discharged during the sampling period to calculate the quantity of activity discharged.

For other iodine isotopes the concentration of each isotope is determined monthly on a 24-hour sample. The concentration of the isotopes found by analysis is combined with the volume of air discharged during the sampling period to calculate the quantity of activity discharged.

d) Liquid Effluents

A sample of each batch discharge is taken and an isotopic analysis is performed in compliance with requirements specified in Table 3.3-1 of the ETSR. This isotopic concentration data is combined with the information on volume discharged to determine the amount of each isotope discharged.

Proportional composite samples of continuous discharges are taken and analyzed in compliance with Table 3.3-1 of the ETSR. These concentration data are combined with the volume discharged to calculate the total activity discharged.

5. Batch Releases

a) Liquid

	<u>1997</u>	
	<u>3rd Quarter</u>	<u>4th Quarter</u>
Number of Batch Releases	62	32
Total Time Period Batch Releases (min)	6689	3457
Maximum " " " " "	165	194
Average " " " " "	108	108
Minimum " " " " "	88	98
Average Stream Flow (cfs)	Note: *	Note: *

Note:*

This information is obtained from the Department of the Interior, U.S. Geological Survey, for the Hudson River. Due to the delays in obtaining this data from the governmental agency, flows will be submitted as they become available.

Estimated Average Stream Flows of the Hudson River at Indian Point

<u>YEAR</u>	<u>QUARTER</u>	<u>FLOW (cfs)</u>
1995	Fourth	22,400
1996	First	33,467
1996	Second	36,467
1996	Third	14,293

b) Gaseous

	<u>1997</u>	
	<u>3rd Quarter</u>	<u>4th Quarter</u>
Number of Batch Releases	15	0
Total Time Period Batch Releases (min)	906	0
Maximum " " " " "	142	0
Average " " " " "	60	0
Minimum " " " " "	27	0

6. Abnormal Releases

- a) Liquid
None
- b) Gaseous
None

7. Radiological Environmental Technical Specifications

The Radiological Environmental Technical Specifications (RETS) require reporting of prolonged outages of effluent monitoring equipment (Sections 2.1.C and 2.2.B) and significant changes in the land use census, Radiological Environmental Monitoring Program (REMP), or exceeding the total curie content limitations in outdoor tanks (Sections 2.8.A, 2.8.B, 2.7.C and 2.3.4.B).

During this reporting period, the following required Technical Specification Effluent Monitoring equipment was out of service (OOS) for periods greater than 30 consecutive days:

Equipment: R-19 (Steam Generator Blowdown Monitor)

Period out of service: July 1, 1997 to September 1, 1997 (62 days during this reporting period and 46 days reported in the previous report)

Explanation: The Steam Generator Blowdown Line is used to drain Steam Generators in Cold Wet Layup. During power operation, the pressure in the generators is used as the motive force and the skid mounted pump is not run. It is only required for draining in Cold Wet Layup.

However, on May 16, 1997, during the summer refueling outage, the sample pump failed to provide adequate flow rate for monitoring during a draindown. The monitor was placed out of service and compensatory samples were taken for subsequent batch draindowns.

During the interval defined above, there were 10 separate draindowns (or partial drains), each of which indicated no activity above minimum detectable levels on both an initial sample and a sample during the draindown.

The extended out of service condition was due to delays in providing a replacement sample pump. When the unit left cold shutdown on September 1, 1997, the monitor was placed back in service, due to adequate flow provided from Steam Generator pressure.

The sample pump was replaced in February 1998 to ensure readiness for the next cold shutdown condition.

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B. GASEOUS EFFLUENTS
THIRD AND FOURTH QUARTERS, 1997

TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (Jul - Dec 1997)

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3rd	QUARTER 4th	EST. TOTAL ERROR %
A. Fission & Activation Gases				
1. Total Release	Ci	1.73E-01	8.63E-02	±25
2. Average release rate for period	uCi/sec	2.17E-02	1.09E-02	
3. Percent of technical spec. limit	%	4.58E-04	2.97E-04	
B. Iodines				
1. Total Iodine - 131	Ci	2.93E-06	0.00E+00	±25
2. Average release rate for period	uCi/sec	3.68E-07	0.00E+00	
C. Particulates				
1. Total release with T½ >8 days	Ci	2.73E-07	8.75E-07	±25
2. Average release rate for period	uCi/sec	3.43E-08	1.10E-07	
3. Gross alpha radioactivity	Ci	<3.28E-07	<2.87E-07	
D. Tritium				
1. Total release	Ci	4.97E-01	2.39E-01	±25
2. Average release rate for period	uCi/sec	6.26E-02	3.01E-02	
E. Percent of Tech Spec Limit Iodines, Particulate with T½ > 8days, & Tritium				
	%	2.23E-03	5.40E-04	±25

TABLE 1C
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (Jul - Dec 1997)
 GASEOUS EFFLUENTS-GROUND RELEASES

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		3rd Quarter	4th Quarter	3rd Quarter	4th Quarter
1) Fission Gases					
Krypton (Kr) 85m	Ci			9.41E-05	
Krypton (Kr) 85	Ci			1.11E-01	
Krypton (Kr) 87	Ci			2.02E-05	
Krypton (Kr) 88	Ci			9.90E-05	
Xenon (Xe) 131m	Ci				
Xenon (Xe) 133m	Ci			1.97E-03	
Xenon (Xe) 133	Ci		3.96E-02	5.08E-02	
Xenon (Xe) 135m	Ci				
Xenon (Xe) 135	Ci		1.56E-03	4.10E-03	
Xenon (Xe) 138	Ci				
Argon (Ar) 41	Ci	2.69E-03	4.51E-02	1.68E-03	
TOTAL FOR PERIOD	Ci	2.69E-03	8.63E-02	1.70E-01	0.00E+00
2) Iodines					
Iodine (I) 131	Ci	2.93E-06			
Iodine (I) 133	Ci				
Iodine (I) 135	Ci				
TOTAL FOR PERIOD	Ci	2.93E-06	0.00E+00	0.00E+00	0.00E+00

TABLE 1C
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (Jul - Dec 1997)
 GASEOUS EFFLUENTS - GROUND RELEASES

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		3rd Quarter	4th Quarter	3rd Quarter	4th Quarter
3) Particulates					
Antimony (Sb) 125	Ci				
Barium (Ba) 133	Ci				
Cadmium (Cd) 109	Ci				
Cerium (Ce) 139	Ci				
Cerium (Ce) 141	Ci				
Cerium (Ce) 144	Ci				
Cesium (Cs) 134	Ci				
Cesium (Cs) 137	Ci	2.73E-07	8.75E-07		
Cobalt (Co) 57	Ci				
Cobalt (Co) 58	Ci				
Cobalt (Co) 60	Ci				
Chromium (Cr) 51	Ci				
Niobium (Nb) 95	Ci				
Strontium (Sr) 89	Ci				
Strontium (Sr) 90	Ci				
Tin (Sn) 113	Ci				
TOTAL	Ci	2.73E-07	8.75E-07	0.00E+00	0.00E+00

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C. LIQUID EFFLUENTS
THIRD AND FOURTH QUARTERS, 1997

TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (Jul - Dec 1997)

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	UNITS	QUARTER 3rd	QUARTER 4th	EST. TOTAL ERROR %
A. Fission and activation products				
1. Total release (not including tritium, gases, alpha)	Ci	6.48E-02	2.66E-02	±25
2. Average diluted concentration during period	uCi/ml	2.43E-10	1.15E-10	
B. Tritium				
1. Total release	Ci	4.06E+01	2.82E+01	±25
2. Average diluted concentration during period	uCi/ml	1.53E-07	1.22E-07	
C. Dissolved and entrained gases				
1. Total release	Ci	1.02E-02	2.82E-04	±25
2. Average diluted concentration during period	uCi/ml	3.84E-11	1.22E-12	
D. Gross alpha radioactivity				
1. Total release	Ci	< 8.79E-05	< 6.34E-05	±25
E. Volume of waste released (prior to dilution)				
	liters	1.47E+06	7.46E+05	±10
F. Volume of dilution water used during period				
	liters	2.66E+11	2.31E+11	±10
G. Percent of liquid effluent limit				
	%	7.24E-02	7.06E-02	±25

TABLE 2B
 LIQUID EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (Jul - Dec 1997)

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		3rd Quarter	4th Quarter	3rd Quarter	4th Quarter
Chromium (Cr) 51	Ci			3.02E-03	
Manganese (Mn) 54	Ci			2.86E-04	9.20E-05
Iron (Fe) 55	Ci			7.28E-03	1.81E-03
Iron (Fe) 59	Ci			2.27E-04	
Cobalt (Co) 58	Ci			1.79E-02	3.51E-03
Cobalt (Co) 60	Ci			4.04E-03	2.17E-03
Nickel (Ni) 63	Ci			6.42E-03	3.04E-03
Strontium (Sr) 85	Ci			4.14E-05	
Zirconium (Zr) 95	Ci			9.65E-05	
Niobium (Nb) 95	Ci			2.36E-04	
Antimony (Sb) 124	Ci			7.10E-03	1.44E-03
Antimony (Sb) 125	Ci			9.03E-03	5.79E-03
Cesium (Cs) 134	Ci			3.35E-03	3.09E-03
Cesium (Cs) 137	Ci			5.83E-03	5.71E-03
Cerium (Ce) 141	Ci			2.15E-06	
TOTAL FOR PERIOD	Ci	0.00E+00	0.00E+00	6.48E-02	2.66E-02

Nuclides	Unit	CONTINUOUS MODE		BATCH MODE	
		3rd Quarter	4th Quarter	3rd Quarter	4th Quarter
Krypton (Kr) 85	Ci			9.44E-03	
Xenon (Xe) 131m	Ci			4.51E-04	
Xenon (Xe) 133	Ci			3.12E-04	2.82E-04
TOTAL DISSOLVED AND ENTRAINED GASES	Ci			1.02E-02	2.82E-04

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D. SOLID WASTE
THIRD AND FOURTH QUARTERS, 1997

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
 July 1 - December 31, 1997
SOLID WASTE SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of Waste	Unit	6 Month Period			Est. Total Error, %
		Class A	Class B	Class C	
a. Spent resins, filter sludges, etc.	m ³ Ci	4.47E+00 4.64E-01	0 0	0 0	±25
b. Dry compressible, contam. equipment for burial	m ³ Ci	0 0	0 0	0 0	±25
c. Irradiated Components	m ³ Ci	0 0	0 0	0 0	±25
d. Other: Dry compressible, contaminated equip. for volume reduction at offsite facility	m ³ Ci	2.56E+02 6.56E-01	0 0	0 0	±25

2. Estimate of major nuclide composition (by type of waste)

NUCLIDE	UNIT	Dry Vol. Red CLASS A	Resin CLASS A	Resin CLASS B
C-14	%	6.00	0.01	
Fe-55	%	33.72	0.47	
Co-60	%	21.86	0.95	
Ni-59	%	0.38	0.01	
Cs-137	%	1.66	70.05	
Pu-241	%	0.10	0.07	
Ni-63	%	36.28	0.62	
Mn-54	%	0.00	0.07	
Co-58	%	0.00	0.02	
Sb-125	%	0.00	0.15	
H-3	%	0.00	2.10	
Sr-90	%	0.00	0.20	
Cs-134	%	0.00	25.22	
Ce-144	%	0.00	0.06	

Percentages of nuclides and total activities are based on a combination of direct measurements and scaling for non-gamma emitting nuclides.

3. Solid Waste Disposition

Number of Shipments	Mode of Transport	Destination	
4	Truck	SEG, Oak Ridge TN	for volume reduction
1	Truck	Hake, Memphis TN	for volume reduction
1	Truck	Barnwell, SC	for direct burial

4. Containers Shipped

Container	Number	Class A		Class B		Class C	
		Number	Solid Media	Number	Solid Media	Number	Solid Media
<i>For Burial:</i>							
Poly HIC	1		N/A	0	N/A	0	N/A
Drums	0		N/A	0	N/A	0	N/A
Steel Liner	0		N/A	0	N/A	0	N/A
Crates	0		N/A	0	N/A	0	N/A
<i>For Volume Reduction:</i>							
SeaLand Cont.	6		N/A	0	N/A	0	N/A
Crate	14		N/A	0	N/A	0	N/A
Six Pack	0		N/A	0	N/A	0	N/A
Drums	0		N/A	0	N/A	0	N/A

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E. RADIOLOGICAL IMPACT ON MAN
January 1, 1997 through December 31, 1997

RADIOLOGICAL IMPACT ON MAN

The radiological impact on man is determined by conservatively calculating doses to a hypothetical maximally exposed individual offsite based on plant effluents. These calculations are divided into 3 categories:

- Noble Gases
- Particulates and Iodine
- Liquid Releases (fish and invertebrate consumption)

An annual average dispersion factor is used in the calculations, the details of which are presented in the Offsite Dose Calculation Manual.

The computer code used to perform gaseous dose calculations incorporates the models and parameters presented in the Indian Point 3 ODCM Revision 11 which utilizes the assumptions in Regulatory Guide 1.109 and NUREG 0133.

These doses were calculated using radioactive releases from the Indian Point #3 Nuclear Power Plant. Indian Point is a multi-unit site, with Unit 3 owned and operated by the New York Power Authority. Consolidated Edison owns and operates Unit 2. Unit 1 is owned by Consolidated Edison but is defueled and not operational. Doses resulting from releases from Indian Point unit 2 are independently reported by Consolidated Edison.

Doses to individuals from liquid pathways for the fish and invertebrate consumption pathways are computed using the methodology and parameters in the Indian Point 3 ODCM, which incorporates the calculational models that are present in Regulatory Guide 1.109 and NUREG 0133 where site specific data do not exist.

Carbon 14 release concentration and resulting dose have been estimated using data generated at Indian Point 3 from August 1980 to June 1982 after a study conducted by the New York State Department of Health. These estimates are consistent with NUREG 0017, Rev. 1. The maximum dose from Carbon 14 releases has been calculated using the maximum dependable gross electrical capacity of Indian Point 3, which is 1000 MW maintained for the entire year for Carbon 14. The resultant dose to the maximally exposed individual (child) from gaseous releases is 0.68 mRem to the critical organ (bone) and 0.14 mRem to the total body. These values are based upon site specific assumptions. The resultant dose to the maximally exposed individual from liquid releases from Carbon 14 is 0.012 mRem to the critical organ and 0.0025 mRem to the total body.

INDIAN POINT 3 NUCLEAR POWER PLANT
 RADIOLOGICAL IMPACT ON MAN
 JANUARY - DECEMBER 1997

Maximum exposed individual doses (in mrem or mrad) and percent of limit

A. LIQUIDS

QUARTER	1	2	3	4	ANNUAL
Adult Liver Dose (mrem)	2.11E-03	1.83E-03	1.65E-03	1.49E-03	7.07E-03
Percent of Limit (%)	4.22E-02	3.65E-02	3.29E-02	2.99E-02	7.07E-02
Adult Total Body Dose (mrem)	1.50E-03	9.85E-04	1.08E-03	1.06E-03	4.62E-03
Percent of Limit (%)	9.97E-02	6.57E-02	7.22E-02	7.05E-02	1.54E-01

note : The Adult Liver was the critical organ for liquid pathways in 1997.

B. NOBLE GASES

QUARTER	1	2	3	4	ANNUAL
Total Body Dose (mrem)	4.14E-03	4.76E-03	5.37E-06	2.84E-05	8.93E-03
Percent of Limit (%)	3.31E-03	3.81E-03	4.30E-06	2.27E-05	1.19E-03
Skin Dose (mrem)	1.19E-02	1.30E-02	3.52E-05	5.41E-05	2.50E-02
Percent of Limit (%)	2.38E-03	2.60E-03	7.04E-06	1.08E-05	8.33E-04
Gamma Air Dose (mrad)	4.95E-03	5.66E-03	5.93E-06	3.01E-05	1.06E-02
Percent of Limit (%)	9.91E-02	1.13E-01	1.19E-04	6.02E-04	1.06E-01
Beta Air Dose (mrad)	2.00E-02	2.16E-02	4.58E-05	2.97E-05	4.16E-02
Percent of Limit (%)	2.00E-01	2.16E-01	4.58E-04	2.97E-04	2.08E-01

C. IODINES and PARTICULATES

QUARTER	1	2	3	4	ANNUAL
Iodine/Part Dose (mrem)	2.25E-03	1.05E-02	1.67E-04	4.06E-05	1.30E-02
age group	Infant	Infant	Infant	Child	Infant
Critical Organ	Thyroid	Thyroid	Thyroid	Liver	Thyroid
Percent of Limit (%)	2.99E-02	1.40E-01	2.23E-03	5.41E-04	8.64E-02

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F. METEOROLOGICAL DATA

January 1, 1997 through December 31, 1997

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 - 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 - 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 - 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 3
EFFLUENT AND WASTE DISPOSAL
SEMI-ANNUAL REPORT

G. OFFSITE DOSE CALCULATION MANUAL OR
PROCESS CONTROL PROGRAM OR LAND USE CENSUS LOCATION CHANGES

THIRD AND FOURTH QUARTERS, 1997

The Process Control Program was not changed during this reporting period.

No new locations for dose calculations and/or environmental monitoring were identified by the land use census.

The ODCM was upgraded from Revision 10 to 11 during this reporting period. See the attached justification package and enclosed is a copy of revision 11 of the ODCM.

ODCM (Rev 11) JUSTIFICATION PACKAGE

item 1 of 2

OBJECTIVE:

Correct the reference to the Noble Gas dose factor table in Section 3.3.1.2 to Table 3-8 (instead of the erroneously listed 3-9).

DESCRIPTION OF CHANGES:

Corrected the table reference (Table 3-8) in the middle of page 3-8.

IMPACT:

None

JUSTIFICATION:

This typographical correction does not alter the intent of the associated text.

ODCM (Rev 11) JUSTIFICATION PACKAGE

item 2 of 2

OBJECTIVE:

Remove references to the second of two controlling locations (Lake Cohasset) in Section 4.

DESCRIPTION OF CHANGES:

Removed the Lake Cohasset reference from the following sections:

- 1) The last line at the bottom of page 4-4
- 2) The last line of the first paragraph atop page 4-5
- 3) The last line at the bottom of page 4-5

IMPACT:

None. This controlling location was added in June 1993 (ODCM Revision 8) as an experimental location. The original controlling location remains at Roseton.

JUSTIFICATION:

The Technical Specifications Appendix B, Table 2.7-1 require only one sample from a control location. The official control location remains at Roseton. The Lake Cohasset location was added in June 1993 for study as a potential second control location for the off site monitoring of Indian Point. This study was completed by April 17, 1997. The site was determined to be an unacceptable location due to high background Cesium concentration and limited accessibility in winter months.

Particulars of this study were documented in IP3 memorandums IP-RES-96-104 and IP-RES-97-053. The latter memo suggested removal of this temporary additional location in the next ODCM revision.