

Attachment to JAFP-84-0823

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT

JANUARY 1984 - JUNE 1984

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NEW YORK POWER AUTHORITY
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 EFFLUENT AND WASTE DISPOSAL
 SEMIANNUAL REPORT/JANUARY 1984 - JUNE 1984
 SUPPLEMENTAL INFORMATION

UTILITY: JAFNPPLICENSEE: NEW YORK POWER AUTHORITY1. Regulatory Limits

a. Fission and activation gases:

$$\frac{Q_s \bar{E} \text{ (JAF Stack)}}{7.00E-01} + \frac{Q_s \bar{E} \text{ (NMP-1 Stack)}}{5.60E-01} + \frac{\sum Q_{iv} \text{ (JAF Vents)}}{6.30E+05 MPC_i} \leq 1$$

Where: Q_s is stack release rate, Ci/sec \bar{E} is the average energy of release, MeV Q_{iv} is the release rate, Ci/sec, of radioisotope i from building vents MPC_i is defined by Col. 1, Table II of App. B to 10 CFR 20

b,c. Halogens and particulates, half-lives >8 days:

$$\frac{Q_s \text{ (JAF Stack)}}{2.60E-06} + \frac{Q_s \text{ (NMP-1 Stack)}}{2.30E-06} + \frac{Q_{iv} \text{ (JAF Vents)}}{8.90E-08} \leq 1$$

d. Liquid effluents:

- (1) The radioactivity release concentration in the discharge tunnel shall not exceed the values specified in 10 CFR 20, Appendix B, for unrestricted areas.
- (2) The cumulative discharge of radioactive liquid effluents, excluding tritium and noble gases, shall not exceed 10 curies during any calendar quarter.

SUPPLEMENTAL INFORMATION (continued)

2. Maximum Permissible Concentrations

a. Fission and activation gases:

<u>Nuclide</u>	<u>MPC ($\mu\text{Ci/cc}$)</u>	<u>Nuclide</u>	<u>MPC ($\mu\text{Ci/cc}$)</u>
Kr-85	3.00E-07	Xe-131m	4.00E-07
Kr-85m	1.00E-07	Xe-133	3.00E-07
Kr-87	2.00E-08	Xe-133m	3.00E-07
Kr-88	2.00E-08	Xe-135	1.00E-07
N-13	3.00E-08	Xe-135m	3.00E-08
Ar-41	4.00E-08	Xe-138	3.00E-08

b. Iodines: (Not applicable)

c. Particulates, half-lives >8 days: (Not applicable)

d. Liquid effluents:

(1)	2.89E-05 $\mu\text{Ci/ml}$	Quarter 1
(2)	3.78E-05 $\mu\text{Ci/ml}$	Quarter 2

3. <u>Average Energy, \bar{E}</u>	Unit	Quarter 1	Quarter 2
a. Elevated release:	MeV	6.76E-01	4.84E-01
b. Ground level release:	MeV	5.39E-01	5.87E-01

SUPPLEMENTAL INFORMATION (continued)

4. Measurements and Approximations of Total Radioactivity

- a. Fission and activation gases: Continuous monitor on each release path calibrated to Marinelli grab sample analyzed by Ge(Li) spectrometer; bubbler grab sample analyzed for tritium.
- b. Iodines: Ge(Li) analysis of charcoal cartridge and particulate filter on each release path.
- c. Particulates: Ge(Li) analysis of particulate filter on each release path.
- d. Liquid effluents: Ge(Li) analysis of each batch discharged, except composite analysis for Sr-89, Sr-90, and tritium.

5. Batch Releases

Liquid:	<u>Quarter 1</u>	<u>Quarter 2</u>
(1) Number of batch releases:	15	53
(2) Total time period for batch releases:	12.5 hrs.	57.7 hrs.
(3) Maximum time period for batch release:	1.25 hrs.	1.25 hrs.
(4) Average time period for batch release:	8.33E-01 hrs.	1.08 hrs.
(5) Minimum time period for batch release:	2.5 E-01 hrs.	8.33E-01 hrs.
(6) Average stream flow: (Not applicable)		

6. Abnormal Releases

a. Liquid:	Quarter 1	Quarter 2
(1) Number of releases:	None	None
(2) Total activity released:	None	None
b. Gaseous:		
(1) Number of releases:	None	None
(2) Total activity released:	None	None

TABLE 1A

NEW YORK POWER AUTHORITY
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 EFFLUENT AND WASTE DISPOSAL
 SEMIANNUAL REPORT/JANUARY 1984 - JUNE 1984
 GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

	UNIT	QUARTER 1	QUARTER 2	EST. TOTAL ERROR %
A. FISSION AND ACTIVATION GASES				
1. Total release	Ci	1.08E+04	7.15E+03	1.00E+01
2. Average release rate for period	μCi/sec	1.37E+03	9.09E+02	
3. Tech. Spec. limit	%	*	*	
B. IODINES				
1. Total iodine-131	Ci	2.80E-02	1.86E-02	1.00E+01
2. Average release rate for period	μCi/sec	3.56E-03	2.37E-03	
3. Tech. Spec. limit	%	*	*	
C. PARTICULATES				
1. Particulates with half-lives >8 days	Ci	4.64E-02	4.08E-02	1.00E+01
2. Average release rate for period	μCi/sec	5.9 E-03	5.19E-03	
3. Tech. Spec. limit	%	*	*	
4. Gross alpha radioactivity	Ci	6.98E-03	1.55E-03	1.00E+01
D. TRITIUM				
1. Total release	Ci	2.25E 00	2.46E 00	1.00E+01
2. Average release rate for period	μCi/sec	2.86E-01	3.13E-01	
*E. PERCENT OF TECHNICAL SPECIFICATION LIMITS				
FISSION AND ACTIVATION GASES				
1. JAF elevated release	%	1.29E-01	6.10E-02	
2. NMP-1 elevated release	%	2.19E-03	7.00E-03	
3. JAF ground level release	%	1.55E-01	9.90E-02	
4. Total site release	%	2.86E-01	1.67E-01	
HALOGENS AND PARTICULATES WITH HALF-LIVES >8 DAYS				
5. JAF elevated release	%	1.40E-01	7.80E-02	
6. NMP-1 elevated release	%	7.90E-02	1.50E-02	
7. JAF ground level release	%	1.70E 00	2.19E 00	
8. Total site release	%	1.92E 00	2.28E 00	

TABLE 1B

NEW YORK POWER AUTHORITY
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 EFFLUENT AND WASTE DISPOSAL
 SEMIANNUAL REPORT/JANUARY 1984 - JUNE 1984
 GASEOUS EFFLUENTS--ELEVATED RELEASE

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE	
		QUARTER 1	QUARTER 2
1. <u>Fission gases</u>			
Nitrogen-13	Ci	7.53E+02	5.23E+01
Argon-41	Ci	1.23E 00	ND
Krypton-85m	Ci	3.82E+02	4.44E+02
Krypton-87	Ci	5.77E+02	4.87E+02
Krypton-88	Ci	7.98E+02	8.71E+02
Xenon-131m	Ci	8.46E+02	1.21E+03
Xenon-133	Ci	2.82E+02	2.98E+02
Xenon-135	Ci	3.02E+03	3.53E+03
Xenon-135m	Ci	8.88E+02	2.06E+01
Xenon-138	Ci	2.92E+03	5.31E+01
2. <u>Iodines</u>			
Iodine-131	Ci	1.74E-02	4.47E-03
Iodine-133	Ci	1.15E-04	1.39E-04
Iodine-135	Ci	ND	3.75E-04
3. <u>Particulates</u>			
Chromium-51	Ci	7.86E-06	ND
Manganese-54	Ci	9.37E-07	2.02E-06
Cobalt-58	Ci	ND	8.91E-08
Cobalt-60	Ci	2.19E-06	1.55E-05
Strontium-89	Ci	3.42E-02	3.42E-02
Strontium-90	Ci	2.69E-05	2.69E-05
Cesium-137	Ci	3.64E-04	ND
Barium-Lanthanum-140	Ci	1.61E-03	4.37E-05

There are no batch releases for this period.

ND - None detected.

TABLE 1C

NEW YORK POWER AUTHORITY
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 EFFLUENT AND WASTE DISPOSAL
 SEMIANNUAL REPORT/JANUARY 1984 - JUNE 1984
 GASEOUS EFFLUENTS--GROUND LEVEL RELEASES

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE	
		QUARTER 1	QUARTER 2
1. <u>Fission gases</u>			
Nitrogen-13	Ci	2.70E+01	ND
Krypton-85m	Ci	9.94E+01	ND
Krypton-87	Ci	1.69E+01	1.43E 00
Krypton-88	Ci	5.74E 00	ND
Xenon-133	Ci	2.55E 00	5.79E-01
Xenon-135	Ci	7.59E+01	5.71E+01
Xenon-135m	Ci	4.17E+01	6.63E+01
Xenon-138	Ci	7.53E+01	6.09E+01
2. <u>Iodines</u>			
Iodine-131	Ci	1.06E-02	1.41E-02
Iodine-133	Ci	1.51E-01	1.30E-01
Iodine-135	Ci	1.55E-01	1.35E-01
3. <u>Particulates</u>			
Chromium-51	Ci	3.90E-03	1.03E-03
Manganese-54	Ci	4.01E-04	1.34E-04
Cobalt-58	Ci	8.41E-05	3.57E-05
Cobalt-60	Ci	8.69E-04	8.45E-04
Zinc-65	Ci	9.88E-05	2.62E-05
Strontium-89	Ci	1.81E-03	1.81E-03
Strontium-90	Ci	1.05E-05	1.05E-05
Zirconium-Niobium-95	Ci	1.53E-05	ND
Cesium-137	Ci	2.88E-06	2.42E-06
Barium-Lanthanum-140	Ci	2.91E-03	2.63E-03
Cerium-141	Ci	5.82E-05	1.38E-05

There are no batch releases for this period.

ND - None detected.

TABLE 2A

NEW YORK POWER AUTHORITY
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 EFFLUENT AND WASTE DISPOSAL
 SEMIANNUAL REPORT/JANUARY 1984 - JUNE 1984
 LIQUID EFFLUENTS--SUMMATION OF ALL RELEASES

	UNIT	QUARTER 1	QUARTER 2	EST. TOTAL ERROR %
A. FISSION AND ACTIVATION PRODUCTS				
1. Total release (not including tritium and alpha)	Ci	6.45E-03	2.51E-02	1.00E+01
2. Average diluted concentration during period	μ C/ml	3.62E-11	1.29E-10	
3. Applicable limit	%	1.25E-04	3.42E-04	
B. TRITIUM				
1. Total release	Ci	2.66E-01	1.43E 00	1.00E+01
2. Average diluted concentration during period	μ Ci/ml	1.50E-09	7.39E-09	
3. Applicable limit	%	4.99E-05	2.46E-04	
C. DISSOLVED AND ENTRAINED GASES				
1. Total release	Ci	1.07E 00	1.47E+01	1.00E+01
2. Average diluted concentration during period	μ Ci/ml	6.03E-09	7.58E-08	
3. Applicable limit	%	6.03E-13	7.58E-12	
D. GROSS ALPHA RADIOACTIVITY				
Total release	Ci	7.29E-06	5.40E-04	1.00E+01
E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)				
	Liters	4.42E+05	2.38E+06	1.00E+01
F. VOLUME OF DILUTION WATER USED DURING PERIOD				
	Liters	1.78E+11	1.94E+11	1.00E+01

TABLE 2B

NEW YORK POWER AUTHORITY
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 SEMIANNUAL REPORT/JANUARY 1984 - JUNE 1984
 LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	BATCH MODE	
		QUARTER 1	QUARTER 2
Sodium-24	Ci	ND	2.02E-04
Chromium-51	Ci	4.39E-04	9.55E-05
Manganese-54	Ci	4.47E-04	2.01E-04
Cobalt-58	Ci	4.71E-04	3.42E-04
Iron-59	Ci	2.83E-05	ND
Cobalt-60	Ci	3.66E-03	5.49E-03
Zinc-65	Ci	1.88E-05	5.85E-04
Krypton-85m	Ci	5.30E-05	ND
Zirconium-Niobium-95	Ci	ND	3.32E-05
Technetium-99m	Ci	3.31E-05	6.95E-05
Silver-110m	Ci	2.66E-05	ND
Iodine-131	Ci	1.01E-05	2.00E-05
Iodine-133	Ci	ND	4.48E-05
Xenon-133	Ci	3.85E-04	5.42E-04
Cesium-134	Ci	1.73E-05	6.83E-05
Xenon-135	Ci	6.36E-04	1.42E-02
Cesium-137	Ci	9.37E-05	3.12E-04
Barium-Lanthanium-140	Ci	3.24E-05	3.96E-04
Neptunium-239	Ci	ND	2.01E-03

There are no continuous mode discharges for this period.

ND - None detected.

TABLE 3

NEW YORK POWER AUTHORITY
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 EFFLUENT AND WASTE DISPOSAL
 SEMIANNUAL REPORT/JANUARY 1984 - JUNE 1984
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

	UNIT	SIX-MONTH PERIOD	EST. TOTAL ERROR %
1. <u>Type of Waste</u>			
a. Spent resins, filter sludges evaporator bottoms, etc.	m ³ Ci	7.13E+01 6.65E+02	1.00E+01 1.00E+01
b. Dry compressible waste, contaminated equipment, etc.	m ³ Ci	8.02E+01 4.73E 00	1.00E+01 1.00E+01
c. Irradiated components	(None)		
d. Other	(None)		
2. <u>Estimate of Major Nuclide Composition</u>			
Chromium-51		0.2 %	1.00E+01
Manganese-54		5.0 %	
Iron-55		29.5 %	
Cobalt-58		0.8 %	
Nickel-59		0.5 %	
Cobalt-60		37.1 %	
Nickel-63		0.9 %	
Zinc-65		3.0 %	
Strontium-89		5.6 %	
Strontium-90		1.4 %	
Cesium-134		5.4 %	
Cesium-137		8.9 %	

3. Solid Waste Disposition

SHIPMENT	QTY.	TRANSPORTATION MODE	DESTINATION
Type a and b	21	Truck	Barnwell, SC
Type b	3	Truck	Richland, WA

B. IRRADIATED FUEL SHIPMENTS (NONE)

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REPORT NOTES

1) Table 1A, Section E Percent of Technical Specification Limit

Subsections 5 and 7, halogens and particulates with half-lives >8 days calculated as I-131 equivalents in accordance with Technical Specifications Appendix B, 2.3.B.2.

2) Table 1B, Section 3 Particulates

Second Quarter strontium-89 and strontium-90 releases calculated from First Quarter Sample Data.

3) If actual sample data alters the report significantly (changes percent of allowable release limits), the report will be revised and redistributed.

APPENDIX A*

* Appendix A is submitted in compliance with Section 4.3.5 of the James A. FitzPatrick Nuclear Power Plant Environmental Technical Specifications. Section 4.3.5 requires that all deviations from the environmental sampling schedule shall be described in the semiannual reports.

RADIOLOGICAL ENVIRONMENTAL SURVEILLANCE PROGRAM
DEVIATION FROM THE REQUIRED SAMPLING SCHEDULE
JANUARY 1984 - JUNE 1984

EXCEPTIONS TO THE PROGRAM

1. Environmental radiation monitor I onsite was inoperable from January 13, 1984 (0715 hours) to January 16, 1984 (1115 hours). Inoperability was caused by an electrical malfunction.
2. The air sampling pump at the K onsite environmental sampling station was inoperable from February 10, 1984 (1000 hours) to February 13, 1984 (1000 hours). Inoperability was due to an I&C technician's failure to restart the air sampling pump after environmental station maintenance.
3. The air sampling pump at the C offsite environmental sampling station was inoperable from March 6, 1984 (0930 hours) to March 7, 1984 (0930 hours). Inoperability was caused by pump mechanical problems.
4. The air sampling pump at the J onsite environmental sampling station was inoperable from April 18, 1984 (0958 hours) to May 17, 1984 (1415 hours). Inoperability was caused by pump mechanical problems. All spare air sampling pumps were also being repaired during this time interval, and were not available until May 17, 1984.
5. Environmental radiation monitor C offsite was inoperable from May 5, 1984 (2100 hours) to May 15, 1984 (0857 hours). Inoperability was caused by vandalism to the environmental station (the monitor detector was stolen).
6. Environmental radiation monitor C offsite was inoperable from May 22, 1984 (0937 hours) to May 26, 1984 (0745 hours). Inoperability was caused by an electrical malfunction.
7. Environmental radiation monitor C offsite was inoperable from May 27, 1984 (1045 hours) to June 4, 1984 (0830 hours). Inoperability was caused by vandalism to the environmental station (the monitor detector was stolen).
8. The spring collection of GAMMARUS did not contain sufficient quantities for Sr-89 and Sr-90 analysis as required by Table 4.3.1, Appendix B of the James A. FitzPatrick Nuclear Power Plant Environmental Technical Specifications. As required by plant procedures, three attempts were made to obtain sufficient quantities of GAMMARUS for analysis. The unavailability of GAMMARUS is most probably due to the unseasonably cold temperature of Lake Ontario and the delay of the spring lake turnover. Few GAMMARUS were inhabiting the shoreline shallows during the spring sampling season. Another sample collection of GAMMARUS will be attempted before the second sample collection in late August.

***** LEGEND *****

% FREQUENCY OF WIND DIRECTION WITHIN WIND SPEED CATEGORY
*** BY STABILITY ***

-----JG120*

SITE: NINE MILE UPPER: WIND SPEED UPPER - 200FT AEROVANE
WIND DIRECTION UPPER - 200FT AEROVANE
TEMPERATURE DIFFERENCE - (200-27FT)

NINE MILE LOWER: WIND SPEED LOWER - 30FT CUP
WIND DIRECTION LOWER - 30FT CUP
TEMPERATURE DIFFERENCE - (200-27FT)

STABILITY CLASS: PASQUILL STABILITY CATEGORIES - DEGC/100M

A - EXTREMELY UNSTABLE	LT -1.9
B - MODERATELY UNSTABLE	-1.8 TO -1.7
C - SLIGHTLY UNSTABLE	-1.6 TO -1.5
D - NEUTRAL	-1.4 TO -0.5
E - SLIGHTLY STABLE	-0.4 TO 1.5
F - MODERATELY STABLE	1.6 TO 4.0
G - EXTREMELY STABLE	GT 4.0
ALL - ALL STABILITIES (A-G)	ALL
() - ALL WIND	N/A

WIND CLASS: SIX WIND SPEED CATEGORIES - (SEE TABLE HEADINGS) MPH

SIXTEEN WIND DIRECTION CATEGORIES - 22.5 DEG

NOTE: THE DATA CAPTURE STATISTICS ARE GIVEN FOR EACH OF THE NINE
CATEGORIES LISTED ABOVE.

CALM WINDS ARE LISTED IN THE 0-3 WIND SPEED CATEGORY.

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - A

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

D.R	SPEED (MPH)					TOTAL	
	00-03	04-07	08-12	13-18	19-23		>24
N	0.0 (0)	0.6 (11)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	1.0 (18)
NNE	0.0 (0)	0.3 (6)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.6 (11)
NE	0.2 (3)	0.3 (5)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
ENE	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
E	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)	0.3 (6)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (2)	0.6 (11)	0.8 (15)
NNW	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)	0.3 (6)	0.1 (2)	0.5 (10)
TOTAL	0.3 (6)	1.7 (31)	0.9 (16)	0.2 (4)	0.5 (10)	1.1 (20)	4.6 (87)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 87

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - B

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.1 (2)	0.3 (6)	0.0 (0)	0.0 (0)	0.4 (8)
NNE	0.0 (0)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.3 (5)
NE	0.0 (0)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (2)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	0.2 (4)	0.2 (4)
NW	0.0 (0)	0.0 (0)	0.3 (5)	0.4 (7)	0.2 (4)	0.8 (15)
NNW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
TOTAL	0.0 (0)	0.6 (11)	0.7 (14)	0.5 (9)	0.5 (10)	3.0 (57)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 58

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - C

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.4 (8)	0.4 (7)	0.1 (1)	0.0 (0)	0.9 (16)
NNE	0.0 (0)	0.4 (8)	0.2 (3)	0.0 (0)	0.0 (0)	0.6 (11)
NE	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
ENE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
SE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
NW	0.0 (0)	0.0 (0)	0.2 (3)	0.4 (8)	0.1 (2)	1.0 (18)
NNW	0.0 (0)	0.1 (1)	0.4 (7)	0.6 (11)	0.5 (10)	1.6 (30)
TOTAL	0.0 (0)	1.3 (25)	1.3 (24)	1.3 (25)	0.6 (12)	4.9 (92)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 92

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - D

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.0 (0)	2.1 (40)	1.1 (21)	0.1 (1)	0.0 (0)	0.0 (0)	3.3 (62)
NNE	0.2 (3)	2.7 (51)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	3.4 (63)
NE	0.4 (8)	3.6 (67)	1.8 (33)	0.5 (9)	0.0 (0)	0.0 (0)	6.3 (117)
ENE	0.3 (5)	0.8 (15)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (20)
E	0.2 (3)	0.7 (14)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (23)
ESE	0.1 (2)	1.2 (22)	2.0 (38)	0.6 (12)	0.1 (1)	0.0 (0)	4.0 (75)
SE	0.1 (1)	0.9 (16)	2.0 (37)	0.3 (6)	0.0 (0)	0.0 (0)	3.2 (60)
SSE	0.0 (0)	0.5 (10)	0.8 (15)	0.1 (2)	0.0 (0)	0.0 (0)	1.4 (27)
S	0.2 (3)	0.9 (17)	0.3 (6)	0.1 (1)	0.0 (0)	0.0 (0)	1.4 (27)
SSW	0.0 (0)	0.6 (12)	0.8 (15)	0.4 (7)	0.0 (0)	0.0 (0)	1.8 (34)
SW	0.2 (4)	0.2 (3)	0.7 (13)	0.2 (4)	0.1 (1)	0.0 (0)	1.3 (25)
WSW	0.0 (0)	0.3 (5)	0.4 (7)	0.4 (7)	0.3 (6)	0.2 (4)	1.5 (29)
W	0.1 (1)	0.5 (9)	0.5 (9)	0.5 (9)	1.3 (24)	1.0 (18)	3.7 (70)
WNW	0.1 (2)	0.5 (9)	0.3 (6)	1.2 (23)	1.5 (28)	1.0 (19)	4.6 (87)
NW	0.1 (2)	0.7 (14)	2.5 (47)	2.0 (37)	0.9 (16)	0.2 (3)	6.4 (119)
MNW	0.1 (1)	0.4 (8)	1.8 (33)	0.4 (7)	0.0 (0)	0.0 (0)	2.6 (49)
TOTAL	1.9 (35)	16.7 (312)	15.8 (295)	6.7 (125)	4.1 (76)	2.4 (44)	47.4 (887)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 909

NUMBER OF MISSING WIND OBSERVATIONS: 22

NUMBER OF CALM HOURS: 2

Attachment to JAFP-84-0823

6

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - E

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.1 (1)	0.6 (11)	0.6 (11)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (23)
NNE	0.2 (3)	1.0 (18)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	1.2 (22)
NE	0.1 (2)	1.5 (29)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	1.8 (33)
ENE	0.2 (4)	0.5 (10)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.7 (14)
E	0.2 (4)	1.2 (23)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	1.5 (29)
ESE	0.5 (10)	2.2 (41)	1.8 (33)	0.7 (13)	0.0 (0)	0.0 (0)	5.2 (97)
SE	0.3 (5)	2.4 (45)	4.0 (74)	1.0 (19)	0.0 (0)	0.0 (0)	7.6 (143)
SSE	0.1 (1)	2.3 (43)	2.3 (43)	0.3 (6)	0.1 (1)	0.0 (0)	5.0 (94)
S	0.1 (2)	1.2 (23)	1.3 (24)	0.2 (3)	0.0 (0)	0.0 (0)	2.8 (52)
SSW	0.1 (2)	1.1 (20)	1.1 (21)	0.0 (0)	0.0 (0)	0.0 (0)	2.3 (43)
SW	0.2 (4)	0.7 (14)	2.0 (38)	1.0 (19)	0.0 (0)	0.0 (0)	4.0 (75)
WSW	0.1 (2)	1.2 (22)	1.0 (19)	0.4 (8)	0.1 (2)	0.3 (6)	3.2 (59)
W	0.2 (3)	0.4 (8)	0.0 (0)	0.1 (2)	0.2 (4)	0.4 (7)	1.3 (24)
WNW	0.1 (1)	0.3 (5)	0.5 (9)	0.5 (9)	0.2 (4)	0.1 (1)	1.5 (29)
NW	0.0 (0)	0.1 (1)	0.2 (3)	0.1 (2)	0.0 (0)	0.0 (0)	0.3 (6)
NNW	0.0 (0)	0.2 (3)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
TOTAL	2.4 (44)	16.9 (316)	15.1 (282)	4.4 (82)	0.6 (11)	0.7 (14)	40.0 (749)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 769

NUMBER OF MISSING WIND OBSERVATIONS: 20

NUMBER OF CALM HOURS: 5

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

SITE: NINE MILE LOWER (9)

STABILITY CLASS - F

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 0
 NUMBER OF MISSING WIND OBSERVATIONS: 0
 NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - G

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 0

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - ALL

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.1 (1)	3.8 (72)	2.8 (52)	0.1 (2)	0.0 (0)	0.0 (0)	6.8 (127)
NNE	0.3 (6)	4.6 (87)	0.9 (17)	0.1 (2)	0.0 (0)	0.0 (0)	6.0 (112)
NE	0.7 (13)	5.8 (108)	1.9 (36)	0.5 (9)	0.0 (0)	0.0 (0)	8.9 (166)
ENE	0.5 (10)	1.4 (27)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (37)
E	0.4 (8)	2.0 (37)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	2.8 (53)
ESE	0.6 (12)	3.4 (64)	3.8 (72)	1.3 (25)	0.1 (1)	0.0 (0)	9.3 (174)
SE	0.4 (7)	3.3 (62)	5.9 (111)	1.3 (25)	0.0 (0)	0.0 (0)	11.0 (205)
SSE	0.1 (1)	2.9 (54)	3.1 (58)	0.4 (8)	0.1 (1)	0.0 (0)	6.5 (122)
S	0.3 (5)	2.1 (40)	1.6 (30)	0.2 (4)	0.0 (0)	0.0 (0)	4.2 (79)
SSW	0.1 (2)	1.7 (32)	2.0 (38)	0.4 (7)	0.0 (0)	0.0 (0)	4.2 (79)
SW	0.4 (8)	0.9 (17)	2.7 (51)	1.3 (24)	0.1 (1)	0.0 (0)	5.4 (101)
WSW	0.1 (2)	1.4 (27)	1.4 (26)	0.8 (15)	0.6 (12)	0.6 (11)	5.0 (93)
W	0.2 (4)	0.9 (17)	0.5 (9)	0.6 (12)	1.5 (28)	1.9 (35)	5.6 (105)
WNW	0.2 (3)	0.7 (14)	1.0 (18)	2.4 (44)	2.1 (40)	2.4 (45)	8.8 (164)
NW	0.1 (2)	0.9 (16)	3.4 (63)	3.1 (58)	1.9 (36)	0.3 (6)	9.7 (181)
NNW	0.1 (1)	1.1 (21)	2.2 (42)	0.5 (10)	0.0 (0)	0.0 (0)	4.0 (74)
TOTAL	4.5 (85)	37.1 (695)	33.7 (631)	13.1 (245)	6.4 (119)	5.2 (97)	100.0 (1872)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1915

NUMBER OF MISSING WIND OBSERVATIONS: 43

NUMBER OF CALM HOURS: 8

Attachment to JAFP-84-0823

10
 NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.0 (1)	3.7 (74)	2.6 (53)	0.1 (2)	0.0 (0)	0.0 (0)	6.4 (120)
NNE	0.3 (7)	4.5 (91)	0.8 (17)	0.1 (2)	0.0 (0)	0.0 (0)	5.8 (117)
NE	0.7 (15)	5.4 (109)	1.8 (36)	0.4 (9)	0.0 (0)	0.0 (0)	8.4 (169)
ENE	0.6 (12)	1.4 (28)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (40)
E	0.5 (11)	2.3 (47)	0.4 (8)	0.0 (0)	0.0 (0)	0.0 (0)	3.3 (66)
ESE	0.6 (13)	3.9 (79)	3.6 (73)	1.2 (25)	0.0 (1)	0.0 (0)	9.5 (191)
SE	0.4 (8)	3.8 (76)	5.6 (114)	1.3 (26)	0.0 (0)	0.0 (0)	11.1 (224)
SSE	0.3 (7)	3.8 (77)	3.2 (65)	0.4 (9)	0.0 (1)	0.0 (0)	7.9 (159)
S	0.2 (5)	3.1 (62)	1.6 (32)	0.2 (4)	0.0 (0)	0.0 (0)	5.1 (103)
SSW	0.1 (2)	1.7 (35)	2.0 (40)	0.3 (7)	0.0 (0)	0.0 (0)	4.2 (84)
SW	0.4 (8)	0.8 (17)	2.6 (53)	1.2 (24)	0.0 (1)	0.0 (0)	5.1 (103)
WSW	0.1 (2)	1.5 (31)	1.4 (28)	0.9 (18)	0.6 (12)	0.5 (11)	5.1 (102)
W	0.2 (4)	0.9 (18)	0.5 (10)	0.6 (13)	1.4 (29)	1.7 (35)	5.4 (109)
WNW	0.1 (3)	0.7 (14)	0.9 (18)	2.2 (44)	2.0 (41)	2.2 (45)	8.2 (165)
NW	0.1 (2)	0.8 (16)	3.1 (63)	2.9 (58)	1.8 (36)	0.3 (6)	9.0 (181)
NNW	0.1 (2)	1.0 (21)	2.1 (43)	0.5 (10)	0.0 (0)	0.0 (0)	3.8 (76)
TOTAL	5.1 (102)	39.4 (795)	32.3 (653)	12.4 (251)	6.0 (121)	4.8 (97)	100.0 (2019)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2184

NUMBER OF MISSING WIND OBSERVATIONS: 165

NUMBER OF CALM HOURS: 8

Attachment to JAFP-84-0823

***** LEGEND *****

% FREQUENCY OF WIND DIRECTION WITHIN WIND SPEED CATEGORY
*** BY STABILITY ***

JG120*

SITE: NINE MILE UPPER: WIND SPEED UPPER - 200FT AEROVANE
WIND DIRECTION UPPER - 200FT AEROVANE
TEMPERATURE DIFFERENCE - (200-27FT)

NINE MILE LOWER: WIND SPEED LOWER - 30FT CUP
WIND DIRECTION LOWER - 30FT CUP
TEMPERATURE DIFFERENCE - (200-27FT)

STABILITY CLASS: PASQUILL STABILITY CATEGORIES - DEG/100M

A - EXTREMELY UNSTABLE	LT	-1.9
B - MODERATELY UNSTABLE	-1.8 TO	-1.7
C - SLIGHTLY UNSTABLE	-1.6 TO	-1.5
D - NEUTRAL	-1.4 TO	-0.5
E - SLIGHTLY STABLE	-0.4 TO	1.5
F - MODERATELY STABLE	1.6 TO	4.0
G - EXTREMELY STABLE	GT	4.0
ALL - ALL STABILITIES (A-G)	ALL	
() - ALL WIND	N/A	

WIND CLASS: SIX WIND SPEED CATEGORIES - (SEE TABLE HEADINGS) MPH

SIXTEEN WIND DIRECTION CATEGORIES - 22.5 DEG

NOTE: THE DATA CAPTURE STATISTICS ARE GIVEN FOR EACH OF THE NINE
CATEGORIES LISTED ABOVE.

CALM WINDS ARE LISTED IN THE 0-3 WIND SPEED CATEGORY.

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

SITE: NINE MILE UPPER (9)

JG120*

STABILITY CLASS - A

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL	
	00-03	04-07	08-12	13-18	19-23		>24
N	0.0 (0)	0.2 (3)	0.4 (8)	0.3 (5)	0.1 (2)	0.1 (1)	1.0 (19)
NNE	0.0 (0)	0.1 (1)	0.3 (3)	0.2 (3)	0.2 (4)	0.3 (3)	0.7 (14)
NE	0.0 (0)	0.4 (7)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
ENE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
E	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ESE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)	0.4 (7)	0.7 (14)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)	0.6 (8)	0.5 (10)
TOTAL	0.0 (0)	0.9 (16)	0.9 (17)	0.6 (11)	0.5 (10)	1.8 (33)	4.6 (87)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 87
 NUMBER OF MISSING WIND OBSERVATIONS: 0
 NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - B

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.1 (1)	0.0 (0)	0.2 (3)	0.0 (0)	0.2 (4)
NNE	0.0 (0)	0.1 (1)	0.1 (2)	0.1 (1)	0.0 (0)	0.1 (4)
NE	0.0 (0)	0.2 (3)	0.1 (1)	0.0 (0)	0.0 (0)	0.3 (4)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (2)	0.2 (4)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)	0.3 (6)	0.6 (12)
N	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.2 (2)
TOTAL	0.0 (0)	0.3 (5)	0.3 (5)	0.7 (13)	0.4 (8)	1.4 (27)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 58

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

14
NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - C

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.1 (2)	0.1 (1)	0.5 (9)	0.1 (2)	0.9 (17)
NNE	0.0 (0)	0.1 (2)	0.1 (1)	0.3 (5)	0.1 (1)	0.6 (12)
NE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)	0.1 (2)
SE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)	0.1 (2)	0.9 (17)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (8)	0.3 (6)	1.6 (30)
TOTAL	0.0 (0)	0.3 (6)	0.4 (7)	1.8 (34)	0.9 (16)	4.9 (92)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 92

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

15
 NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - D

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.1 (1)	0.3 (5)	0.6 (12)	1.6 (30)	0.6 (11)	0.6 (11)	3.7 (70)
NNE	0.1 (1)	0.2 (4)	0.9 (17)	2.1 (40)	1.0 (18)	2.0 (37)	6.2 (117)
NE	0.1 (2)	0.7 (14)	1.4 (27)	0.9 (16)	0.2 (3)	0.1 (2)	3.4 (64)
ENE	0.1 (1)	0.3 (5)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (12)
E	0.0 (0)	0.4 (8)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (10)
ESE	0.1 (1)	0.3 (5)	0.7 (13)	1.4 (26)	0.6 (12)	0.5 (10)	3.6 (67)
SE	0.0 (0)	0.1 (2)	1.1 (21)	1.8 (34)	0.6 (11)	0.4 (8)	4.0 (76)
SSE	0.0 (0)	0.1 (1)	0.7 (13)	0.5 (9)	0.4 (7)	0.0 (0)	1.6 (30)
S	0.0 (0)	0.4 (7)	0.7 (14)	0.2 (4)	0.1 (1)	0.0 (0)	1.4 (26)
SSW	0.0 (0)	0.2 (3)	0.7 (13)	0.2 (4)	0.6 (11)	0.0 (0)	1.6 (31)
SW	0.1 (1)	0.1 (2)	0.4 (8)	0.7 (14)	0.3 (5)	0.1 (1)	1.6 (31)
WSW	0.1 (2)	0.0 (0)	0.4 (7)	0.4 (8)	0.2 (3)	0.6 (12)	1.7 (32)
W	0.1 (1)	0.2 (4)	0.5 (10)	0.2 (3)	0.7 (14)	2.2 (42)	3.9 (74)
WW	0.0 (0)	0.3 (6)	0.3 (5)	0.6 (11)	1.3 (24)	2.0 (37)	4.4 (83)
NW	0.1 (2)	0.4 (7)	0.8 (15)	2.4 (45)	1.4 (26)	1.2 (22)	6.2 (117)
NNW	0.0 (0)	0.2 (4)	0.6 (12)	1.5 (28)	0.5 (9)	0.3 (5)	3.1 (58)
TOTAL	0.6 (12)	4.1 (77)	10.4 (195)	14.5 (272)	8.2 (155)	9.9 (187)	47.7 (898)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 909

NUMBER OF MISSING WIND OBSERVATIONS: 11

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - E

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL	
	00-03	04-07	08-12	13-18	19-23		>24
N	0.0 (0)	0.0 (0)	0.1 (1)	0.5 (9)	0.5 (9)	0.7 (14)	1.8 (33)
NNE	0.0 (0)	0.0 (0)	0.2 (3)	0.5 (9)	0.6 (12)	0.3 (6)	1.6 (30)
NE	0.1 (1)	0.2 (4)	0.9 (17)	0.1 (2)	0.1 (1)	0.0 (0)	1.3 (25)
ENE	0.0 (0)	0.1 (2)	0.2 (3)	0.2 (4)	0.0 (0)	0.0 (0)	0.5 (9)
E	0.0 (0)	0.1 (2)	0.5 (9)	0.2 (3)	0.0 (0)	0.0 (0)	0.7 (14)
ESE	0.0 (0)	0.2 (4)	1.0 (19)	1.0 (19)	0.2 (3)	0.4 (8)	2.8 (53)
SE	0.0 (0)	0.5 (9)	0.9 (17)	3.0 (57)	2.1 (40)	1.5 (28)	8.0 (151)
SSE	0.0 (0)	0.1 (2)	0.9 (16)	2.8 (53)	1.0 (18)	0.3 (5)	5.0 (94)
S	0.1 (1)	0.1 (2)	1.3 (24)	2.0 (37)	0.7 (14)	0.0 (0)	4.1 (78)
SSW	0.0 (0)	0.1 (2)	0.6 (12)	1.1 (21)	0.1 (1)	0.0 (0)	1.9 (36)
SW	0.0 (0)	0.1 (2)	0.9 (17)	1.9 (35)	0.6 (12)	0.1 (1)	3.6 (67)
WSW	0.0 (0)	0.3 (5)	0.6 (12)	1.1 (20)	0.7 (14)	0.7 (14)	3.5 (65)
W	0.0 (0)	0.5 (10)	0.7 (13)	0.3 (6)	0.2 (3)	0.5 (10)	2.2 (42)
WNW	0.0 (0)	0.3 (6)	0.3 (5)	0.3 (6)	0.5 (9)	0.2 (4)	1.6 (30)
NW	0.0 (0)	0.2 (4)	0.1 (2)	0.3 (6)	0.2 (3)	0.0 (0)	0.8 (15)
NNW	0.0 (0)	0.1 (2)	0.0 (0)	0.1 (1)	0.1 (1)	0.1 (1)	0.3 (5)
TOTAL	0.1 (2)	3.0 (56)	9.0 (170)	15.3 (288)	7.4 (140)	4.8 (91)	39.7 (747)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 769

NUMBER OF MISSING WIND OBSERVATIONS: 22

NUMBER OF CALM HOURS: 0

Attachment to JAFF-84-0823

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - F

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 0

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - G

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
TOTAL	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 0

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

19
 NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

STABILITY CLASS - ALL

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.1 (1)	0.6 (11)	1.2 (22)	3.0 (56)	1.3 (24)	1.8 (33)	7.8 (147)
NNE	0.1 (1)	0.4 (8)	1.4 (26)	3.1 (58)	1.9 (35)	2.7 (50)	9.5 (178)
NE	0.2 (3)	1.6 (30)	2.5 (47)	1.0 (18)	0.2 (4)	0.1 (2)	5.5 (104)
ENE	0.1 (1)	0.5 (9)	0.5 (10)	0.2 (4)	0.0 (0)	0.0 (0)	1.3 (24)
E	0.0 (0)	0.6 (11)	0.6 (11)	0.2 (3)	0.0 (0)	0.0 (0)	1.3 (25)
ESE	0.1 (1)	0.5 (10)	1.8 (33)	2.4 (45)	0.9 (16)	1.0 (18)	6.5 (123)
SE	0.0 (0)	0.6 (11)	2.1 (39)	4.8 (91)	2.7 (51)	1.9 (36)	12.1 (228)
SSE	0.0 (0)	0.2 (3)	1.6 (30)	3.3 (62)	1.3 (25)	0.3 (5)	6.6 (125)
S	0.1 (1)	0.5 (9)	2.0 (38)	2.2 (41)	0.8 (15)	0.0 (0)	5.5 (104)
SSW	0.0 (0)	0.3 (5)	1.3 (25)	1.4 (27)	0.6 (12)	0.0 (0)	3.7 (69)
SW	0.1 (1)	0.2 (4)	1.3 (25)	2.7 (50)	0.9 (17)	0.2 (3)	5.3 (100)
WSW	0.1 (2)	0.3 (5)	1.0 (19)	1.5 (28)	0.9 (17)	1.6 (31)	5.4 (102)
W	0.1 (1)	0.7 (14)	1.2 (23)	0.5 (9)	1.0 (18)	3.3 (63)	6.8 (128)
WNW	0.0 (0)	0.6 (12)	0.5 (10)	1.4 (27)	2.1 (40)	3.7 (70)	8.4 (159)
NW	0.1 (2)	0.6 (11)	0.9 (17)	3.5 (65)	2.2 (42)	2.7 (50)	9.9 (187)
NNW	0.0 (0)	0.4 (7)	1.0 (19)	1.8 (34)	0.7 (13)	0.3 (6)	4.2 (79)
TOTAL	0.7 (14)	8.5 (160)	20.9 (394)	32.8 (618)	17.5 (329)	19.5 (367)	100.0 (1882)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1915

NUMBER OF MISSING WIND OBSERVATIONS: 33

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

20
 NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JAN 1 1984 THROUGH MAR 31 1984

JG120*

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.0 (1)	0.5 (11)	1.1 (22)	2.9 (58)	1.3 (26)	1.6 (33)	7.4 (151)
NNE	0.0 (1)	0.4 (8)	1.4 (28)	2.9 (59)	1.8 (36)	2.5 (50)	9.0 (182)
NE	0.1 (3)	1.5 (30)	2.3 (47)	0.9 (18)	0.2 (4)	0.1 (2)	5.1 (104)
ENE	0.0 (1)	0.6 (13)	0.7 (14)	0.2 (4)	0.0 (0)	0.0 (0)	1.6 (32)
E	0.0 (0)	0.5 (11)	0.8 (16)	0.2 (4)	0.0 (0)	0.0 (0)	1.5 (31)
ESE	0.0 (1)	0.6 (12)	1.8 (36)	2.6 (53)	0.8 (16)	0.9 (18)	6.7 (136)
SE	0.0 (0)	0.6 (13)	2.2 (44)	4.9 (99)	2.6 (52)	1.8 (37)	12.1 (245)
SSE	0.0 (0)	0.2 (4)	1.6 (32)	3.6 (74)	1.4 (28)	0.3 (6)	7.1 (144)
S	0.0 (1)	0.5 (11)	2.2 (44)	2.4 (48)	0.9 (18)	0.0 (0)	6.0 (122)
SSW	0.0 (0)	0.2 (5)	1.5 (31)	1.5 (31)	0.6 (12)	0.0 (0)	3.9 (79)
SW	0.0 (1)	0.2 (5)	1.8 (37)	2.6 (52)	0.8 (17)	0.1 (3)	5.7 (115)
WSW	0.1 (2)	0.4 (8)	1.4 (28)	1.5 (30)	0.9 (18)	1.6 (33)	5.9 (119)
W	0.0 (1)	0.8 (16)	1.3 (26)	0.5 (10)	0.9 (19)	3.2 (65)	6.8 (137)
WNW	0.0 (0)	0.7 (14)	0.6 (12)	1.3 (27)	2.0 (40)	3.4 (70)	8.0 (163)
NW	0.1 (3)	0.6 (12)	0.9 (18)	3.2 (65)	2.1 (42)	2.5 (50)	9.4 (190)
NNW	0.0 (0)	0.3 (7)	0.9 (19)	1.7 (34)	0.6 (13)	0.3 (6)	3.9 (79)
TOTAL	0.7 (15)	8.9 (180)	22.4 (454)	32.8 (666)	16.8 (341)	18.4 (373)	100.0 (2029)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2184

NUMBER OF MISSING WIND OBSERVATIONS: 155

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

***** LEGEND *****

% FREQUENCY OF WIND DIRECTION WITHIN WIND SPEED CATEGORY
*** BY STABILITY ***

-----JG120

SITE: NINE MILE UPPER: WIND SPEED UPPER - 200FT AEROVANE
WIND DIRECTION UPPER - 200FT AEROVANE
TEMPERATURE DIFFERENCE - (200-27FT)

NINE MILE LOWER: WIND SPEED LOWER - 30FT CUP
WIND DIRECTION LOWER - 30FT CUP
TEMPERATURE DIFFERENCE - (200-27FT)

STABILITY CLASS: PASQUILL STABILITY CATEGORIES - DEGC/100M

- A - EXTREMELY UNSTABLE LT -1.9
- B - MODERATELY UNSTABLE -1.8 TO -1.7
- C - SLIGHTLY UNSTABLE -1.6 TO -1.5
- D - NEUTRAL -1.4 TO -0.5
- E - SLIGHTLY STABLE -0.4 TO 1.5
- F - MODERATELY STABLE 1.6 TO 4.0
- G - EXTREMELY STABLE GT 4.0
- ALL - ALL STABILITIES (A-G) ALL
- () - ALL WIND N/A

WIND CLASS: SIX WIND SPEED CATEGORIES - (SEE TABLE HEADINGS) MPH

SIXTEEN WIND DIRECTION CATEGORIES - 22.5 DEG

NOTE: THE DATA CAPTURE STATISTICS ARE GIVEN FOR EACH OF THE NINE CATEGORIES LISTED ABOVE.

CALM WINDS ARE LISTED IN THE 0-3 WIND SPEED CATEGORY.

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - A

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.1 (2)	0.3 (6)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
NNE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
SE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
WNW	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NW	0.1 (2)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (6)
NNW	0.2 (4)	0.4 (7)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.9 (16)
TOTAL	0.5 (9)	1.4 (24)	0.5 (9)	0.1 (2)	0.0 (0)	0.0 (0)	2.6 (44)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 44

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - B

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	13-18	19-23	>24	TOTAL
N	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NNE	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
NE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
W	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
WNW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
NNW	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
TOTAL	0.3 (5)	0.3 (5)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (14)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 14

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - C

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (2)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.1 (2)
SE	0.0 (0)	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.2 (3)
SSE	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
S	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.2 (3)	0.1 (1)	0.1 (2)	0.3 (6)
W	0.1 (1)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.3 (5)
WNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
TOTAL	0.1 (2)	0.4 (7)	0.8 (13)	0.2 (3)	0.1 (2)	1.6 (27)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 28

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - D

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.1 (1)	0.1 (2)	0.1 (2)	0.1 (2)	0.0 (0)	0.0 (0)	0.4 (7)
NNE	0.1 (2)	0.5 (8)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.6 (10)
NE	0.2 (3)	0.6 (10)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.8 (13)
ENE	0.1 (2)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (7)
E	0.0 (0)	0.3 (5)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
ESE	0.1 (1)	0.6 (11)	2.7 (47)	0.3 (5)	0.0 (0)	0.0 (0)	3.7 (64)
SE	0.0 (0)	0.1 (2)	0.9 (15)	0.0 (0)	0.0 (0)	0.0 (0)	1.0 (17)
SSE	0.1 (1)	0.2 (4)	0.8 (14)	0.1 (2)	0.0 (0)	0.0 (0)	1.2 (21)
S	0.1 (1)	0.3 (6)	0.7 (12)	0.2 (4)	0.0 (0)	0.0 (0)	1.3 (23)
SSW	0.0 (0)	0.1 (1)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (8)
SW	0.0 (0)	0.1 (2)	0.6 (10)	0.1 (1)	0.0 (0)	0.0 (0)	0.8 (13)
WSW	0.0 (0)	0.7 (12)	3.6 (62)	3.4 (58)	1.0 (18)	0.1 (2)	8.8 (152)
W	0.0 (0)	1.2 (21)	2.6 (44)	1.5 (26)	0.3 (5)	0.1 (1)	5.6 (97)
WNW	0.1 (1)	0.4 (7)	0.3 (5)	0.3 (5)	0.0 (0)	0.0 (0)	1.0 (18)
NW	0.0 (0)	0.2 (3)	0.2 (4)	0.1 (1)	0.0 (0)	0.0 (0)	0.5 (8)
NNW	0.2 (3)	0.6 (11)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	1.0 (18)
TOTAL	0.9 (15)	6.4 (110)	13.3 (230)	6.0 (104)	1.3 (23)	0.2 (3)	28.1 (485)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 490

NUMBER OF MISSING WIND OBSERVATIONS: 5

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - E

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.2 (3)	1.1 (19)	0.4 (7)	0.2 (4)	0.0 (0)	0.1 (1)	2.0 (34)
NNE	0.6 (11)	0.5 (9)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (20)
NE	1.7 (29)	2.8 (48)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	4.5 (77)
ENE	0.5 (9)	1.2 (20)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	1.7 (30)
E	0.4 (7)	0.6 (10)	0.3 (6)	0.3 (5)	0.0 (0)	0.0 (0)	1.6 (28)
ESE	0.2 (3)	0.9 (15)	2.6 (44)	0.4 (7)	0.1 (1)	0.0 (0)	4.1 (70)
SE	0.2 (3)	1.7 (29)	1.3 (23)	0.0 (0)	0.0 (0)	0.0 (0)	3.2 (55)
SSE	0.4 (7)	0.8 (14)	1.6 (28)	0.0 (0)	0.0 (0)	0.0 (0)	2.8 (49)
S	0.5 (8)	1.3 (23)	3.0 (52)	0.0 (0)	0.0 (0)	0.0 (0)	4.8 (83)
SSW	0.3 (6)	1.1 (19)	0.6 (11)	0.0 (0)	0.0 (0)	0.0 (0)	2.1 (36)
SW	0.5 (9)	2.0 (34)	2.0 (35)	0.3 (5)	0.0 (0)	0.0 (0)	4.8 (83)
WSW	0.2 (4)	2.8 (48)	6.2 (106)	3.0 (51)	0.1 (1)	0.0 (0)	12.2 (210)
W	0.2 (3)	1.3 (23)	1.5 (26)	0.6 (10)	0.2 (4)	0.0 (0)	3.8 (66)
WNW	0.3 (6)	0.4 (7)	0.7 (12)	0.6 (10)	0.0 (0)	0.0 (0)	2.0 (35)
NW	0.2 (3)	0.3 (5)	0.8 (13)	0.1 (1)	0.0 (0)	0.0 (0)	1.3 (22)
NNW	0.2 (3)	0.8 (13)	0.5 (8)	0.3 (5)	0.0 (0)	0.0 (0)	1.7 (29)
TOTAL	6.6 (114)	19.5 (336)	21.6 (372)	5.7 (98)	0.3 (6)	0.1 (1)	53.8 (927)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1007

NUMBER OF MISSING WIND OBSERVATIONS: 80

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - F

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.1 (1)	0.2 (3)	0.1 (1)	0.2 (4)	0.0 (0)	0.5 (9)
NNE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NE	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (4)
ENE	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (2)
E	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ESE	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (2)
SE	0.1 (1)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (4)
SSE	0.1 (1)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
S	0.0 (0)	0.4 (7)	0.2 (4)	0.0 (0)	0.0 (0)	0.6 (11)
SSW	0.1 (1)	0.3 (5)	0.1 (1)	0.0 (0)	0.0 (0)	0.5 (7)
SW	0.2 (3)	0.2 (3)	0.1 (2)	0.0 (0)	0.0 (0)	0.5 (8)
WSW	0.2 (3)	0.2 (4)	0.9 (15)	0.1 (1)	0.0 (0)	1.3 (23)
W	0.0 (0)	0.2 (4)	0.0 (0)	0.1 (1)	0.0 (0)	0.3 (5)
WNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (2)
NNW	0.1 (1)	0.3 (5)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (6)
TOTAL	1.0 (17)	2.7 (46)	1.4 (24)	0.3 (6)	0.0 (0)	5.4 (93)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 93

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - G

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	13-18	19-23	>24	TOTAL
N	0.0 (0)	0.2 (4)	0.0 (0)	0.2 (3)	0.0 (0)	0.1 (1)	0.5 (8)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ENE	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
E	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ESE	0.6 (11)	0.5 (8)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (19)
SE	0.5 (8)	1.0 (16)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.5 (26)
SSE	0.5 (10)	1.3 (22)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.9 (32)
S	0.2 (3)	0.3 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.5 (9)
SSW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
SW	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
WSW	0.0 (0)	0.4 (7)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (7)
W	0.1 (2)	0.2 (3)	0.6 (10)	0.0 (0)	0.0 (0)	0.0 (0)	1.0 (17)
WNW	0.1 (1)	0.2 (3)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.4 (7)
NW	0.0 (0)	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (4)
NNW	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
TOTAL	2.3 (40)	4.3 (74)	0.9 (15)	0.2 (3)	0.0 (0)	0.1 (1)	7.7 (133)

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 133

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

1120*

STABILITY CLASS - ALL

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.4 (7)	2.1 (37)	0.6 (11)	0.8 (14)	0.0 (0)	0.1 (2)	4.1 (71)
NNE	0.9 (15)	1.2 (20)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	2.0 (35)
NE	2.0 (34)	3.9 (67)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	5.9 (101)
ENE	0.8 (13)	1.6 (27)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	2.4 (42)
E	0.5 (8)	1.0 (17)	0.6 (10)	0.3 (5)	0.0 (0)	0.0 (0)	2.3 (40)
ESE	1.0 (17)	2.0 (35)	5.5 (95)	0.8 (13)	0.1 (1)	0.0 (0)	9.3 (161)
SE	0.7 (12)	3.0 (52)	2.4 (42)	0.0 (0)	0.0 (0)	0.0 (0)	6.2 (106)
SSE	1.2 (20)	2.6 (44)	2.5 (43)	0.1 (2)	0.0 (0)	0.0 (0)	6.3 (109)
S	0.7 (12)	2.6 (45)	4.0 (69)	0.2 (4)	0.0 (0)	0.0 (0)	7.5 (130)
SSW	0.4 (7)	1.5 (26)	1.1 (19)	0.0 (0)	0.0 (0)	0.0 (0)	3.0 (52)
SW	0.8 (14)	2.3 (39)	2.7 (47)	0.3 (6)	0.0 (0)	0.0 (0)	6.2 (106)
WSW	0.5 (8)	4.1 (71)	11.4 (197)	6.4 (111)	1.2 (21)	0.1 (2)	23.8 (410)
W	0.3 (6)	3.2 (55)	4.3 (74)	2.1 (37)	0.5 (9)	0.1 (1)	10.6 (182)
WNW	0.6 (10)	0.9 (16)	1.2 (21)	0.9 (15)	0.0 (0)	0.0 (0)	3.6 (62)
NW	0.4 (7)	0.8 (14)	1.2 (21)	0.1 (2)	0.0 (0)	0.0 (0)	2.6 (44)
NNW	0.7 (12)	2.1 (37)	0.9 (16)	0.4 (7)	0.0 (0)	0.0 (0)	4.2 (72)
TOTAL	11.7 (202)	34.9 (602)	38.7 (667)	12.5 (216)	1.8 (31)	0.3 (5)	100.0 (1723)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1809

NUMBER OF MISSING WIND OBSERVATIONS: 86

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

30
 NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.6 (12)	2.2 (44)	0.6 (13)	0.7 (14)	0.0 (0)	0.1 (2)	4.2 (85)
NNE	0.8 (17)	1.1 (22)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.9 (39)
NE	2.0 (41)	3.4 (69)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	5.5 (110)
ENE	0.8 (16)	1.4 (29)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	2.3 (47)
E	0.7 (15)	1.7 (34)	0.5 (10)	0.2 (5)	0.0 (0)	0.0 (0)	3.2 (64)
ESE	1.3 (26)	2.6 (53)	4.7 (95)	0.7 (14)	0.0 (1)	0.0 (0)	9.4 (189)
SE	1.0 (20)	2.7 (54)	2.1 (42)	0.0 (0)	0.0 (0)	0.0 (0)	5.8 (116)
SSE	1.8 (37)	3.1 (62)	2.1 (43)	0.1 (2)	0.0 (0)	0.0 (0)	7.2 (144)
S	0.7 (14)	3.0 (60)	3.5 (70)	0.2 (4)	0.0 (0)	0.0 (0)	7.4 (148)
SSW	0.3 (7)	1.7 (35)	0.9 (19)	0.0 (0)	0.0 (0)	0.0 (0)	3.0 (61)
SW	0.7 (15)	2.2 (44)	2.5 (51)	0.3 (6)	0.0 (0)	0.0 (0)	5.8 (116)
WSW	0.5 (10)	3.9 (79)	10.6 (212)	5.8 (117)	1.0 (21)	0.1 (2)	22.0 (441)
W	0.5 (11)	3.4 (68)	4.1 (83)	2.2 (44)	0.5 (10)	0.0 (1)	10.8 (217)
WNW	0.6 (13)	1.1 (22)	1.4 (29)	0.9 (18)	0.0 (0)	0.0 (0)	4.1 (82)
NW	0.5 (10)	0.9 (19)	1.2 (25)	0.2 (4)	0.0 (0)	0.0 (0)	2.9 (58)
NNW	1.0 (20)	2.1 (42)	0.8 (17)	0.3 (7)	0.0 (0)	0.0 (1)	4.3 (87)
TOTAL	14.2 (284)	36.7 (736)	35.5 (711)	11.7 (235)	1.6 (32)	0.3 (6)	100.0 (2004)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2184

NUMBER OF MISSING WIND OBSERVATIONS: 180

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

***** LEGEND *****

% FREQUENCY OF WIND DIRECTION WITHIN WIND SPEED CATEGORY
*** BY STABILITY ***

-----JG120

SITE: NINE MILE UPPER: WIND SPEED UPPER - 200FT AEROVANE
WIND DIRECTION UPPER - 200FT AEROVANE
TEMPERATURE DIFFERENCE - (200-27FT)

NINE MILE LOWER: WIND SPEED LOWER - 30FT CUP
WIND DIRECTION LOWER - 30FT CUP
TEMPERATURE DIFFERENCE - (200-27FT)

STABILITY CLASS: PASQUILL STABILITY CATEGORIES - DEGC/100M

- A - EXTREMELY UNSTABLE LT -1.9
- B - MODERATELY UNSTABLE -1.8 TO -1.7
- C - SLIGHTLY UNSTABLE -1.6 TO -1.5
- D - NEUTRAL -1.4 TO -0.5
- E - SLIGHTLY STABLE -0.4 TO 1.5
- F - MODERATELY STABLE 1.6 TO 4.0
- G - EXTREMELY STABLE GT 4.0
- ALL - ALL STABILITIES (A-G) ALL
- () - ALL WIND N/A

WIND CLASS: SIX WIND SPEED CATEGORIES - (SEE TABLE HEADINGS) MPH
SIXTEEN WIND DIRECTION CATEGORIES - 22.5 DEG

NOTE: THE DATA CAPTURE STATISTICS ARE GIVEN FOR EACH OF THE NINE CATEGORIES LISTED ABOVE.

CALM WINDS ARE LISTED IN THE 0-3 WIND SPEED CATEGORY.

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - A

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	13-18	19-23	>24	TOTAL
N	0.0 (0)	0.2 (3)	0.2 (4)	0.3 (5)	0.2 (4)	0.1 (2)	1.0 (18)
NNE	0.0 (0)	0.1 (2)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.3 (5)
NE	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)	0.1 (2)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NW	0.0 (0)	0.1 (1)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.2 (3)
NNW	0.0 (0)	0.1 (1)	0.2 (4)	0.3 (6)	0.0 (0)	0.0 (0)	0.6 (11)
TOTAL	0.0 (0)	0.5 (8)	0.8 (13)	0.9 (15)	0.2 (4)	0.2 (3)	2.5 (43)

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 44

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - B

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	00-03	04-07	08-12	SPEED (MPH) 13-18	19-23	>24	TOTAL
N	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	0.1 (2)
NNE	0.0 (0)	0.1 (2)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.2 (4)
NE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
W	0.0 (0)	0.1 (2)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
WNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
NNW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
TOTAL	0.0 (0)	0.3 (6)	0.1 (1)	0.3 (5)	0.0 (0)	0.1 (2)	0.8 (14)

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 14

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - C

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
NE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
ESE	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.1 (2)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)	0.2 (3)
SSE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
SSW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
SW	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
WSW	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)	0.0 (0)	0.2 (3)
W	0.0 (0)	0.1 (2)	0.2 (3)	0.0 (0)	0.0 (0)	0.3 (5)
WNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)	0.0 (0)	0.2 (2)
NNW	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)	0.2 (2)
TOTAL	0.0 (0)	0.3 (6)	0.2 (4)	0.5 (9)	0.2 (4)	1.6 (28)

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 28

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - D

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.0 (0)	0.2 (4)	0.1 (2)	0.2 (3)	0.2 (3)	0.2 (4)	0.9 (16)
NNE	0.0 (0)	0.3 (6)	0.2 (3)	0.3 (5)	0.0 (0)	0.0 (0)	0.8 (14)
NE	0.1 (1)	0.3 (6)	0.1 (2)	0.3 (5)	0.0 (0)	0.0 (0)	0.8 (14)
ENE	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
E	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.1 (1)	0.0 (0)	0.2 (3)
ESE	0.1 (1)	0.1 (2)	0.3 (5)	1.3 (23)	1.2 (20)	0.3 (5)	3.3 (56)
SE	0.0 (0)	0.1 (1)	0.1 (2)	0.9 (16)	0.8 (13)	0.1 (1)	1.9 (33)
SSE	0.0 (0)	0.0 (0)	0.3 (6)	0.5 (8)	0.1 (2)	0.1 (2)	1.0 (18)
S	0.1 (1)	0.1 (1)	0.5 (9)	0.4 (7)	0.2 (4)	0.2 (3)	1.5 (25)
SSW	0.0 (0)	0.1 (2)	0.1 (1)	0.3 (6)	0.0 (0)	0.0 (0)	0.5 (9)
SW	0.0 (0)	0.0 (0)	0.2 (4)	0.5 (9)	0.0 (0)	0.0 (0)	0.8 (13)
WSW	0.0 (0)	0.1 (1)	1.6 (27)	3.2 (55)	2.0 (35)	0.6 (11)	7.5 (129)
W	0.0 (0)	0.4 (7)	3.0 (52)	1.3 (23)	0.9 (16)	0.5 (9)	6.2 (107)
WNW	0.1 (1)	0.2 (4)	0.6 (10)	0.5 (9)	0.1 (2)	0.0 (0)	1.5 (26)
NW	0.0 (0)	0.2 (3)	0.2 (3)	0.2 (4)	0.1 (1)	0.0 (0)	0.6 (11)
NNW	0.0 (0)	0.1 (1)	0.2 (4)	0.2 (3)	0.1 (1)	0.0 (0)	0.5 (9)
TOTAL	0.2 (4)	2.3 (39)	7.7 (133)	10.2 (176)	5.7 (98)	2.0 (35)	28.1 (485)

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 490

NUMBER OF MISSING WIND OBSERVATIONS: 5

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - E

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.0 (0)	0.2 (4)	0.2 (3)	0.5 (8)	0.6 (11)	0.3 (5)	1.8 (31)
NNE	0.1 (1)	0.6 (10)	0.8 (13)	1.5 (26)	0.7 (12)	0.8 (14)	4.4 (76)
NE	0.1 (2)	0.5 (8)	1.0 (17)	0.5 (8)	0.6 (10)	0.0 (0)	2.6 (45)
ENE	0.1 (2)	0.5 (8)	0.2 (3)	0.0 (0)	0.1 (1)	0.0 (0)	0.8 (14)
E	0.1 (1)	0.3 (5)	0.1 (2)	0.4 (7)	0.0 (0)	0.1 (1)	0.9 (16)
ESE	0.0 (0)	0.2 (4)	0.1 (2)	0.8 (13)	0.8 (13)	0.5 (9)	2.4 (41)
SE	0.0 (0)	0.0 (0)	0.3 (6)	2.1 (37)	1.7 (29)	0.0 (0)	4.2 (72)
SSE	0.0 (0)	0.1 (2)	0.6 (11)	1.5 (25)	0.8 (14)	0.0 (0)	3.0 (52)
S	0.0 (0)	0.3 (5)	0.5 (8)	1.6 (28)	1.3 (23)	0.0 (0)	3.7 (64)
SSW	0.1 (2)	0.2 (4)	0.3 (5)	2.0 (34)	0.1 (2)	0.0 (0)	2.7 (47)
SW	0.1 (1)	0.6 (10)	0.9 (15)	1.4 (24)	0.1 (1)	0.0 (0)	3.0 (51)
WSW	0.1 (1)	0.5 (8)	2.8 (48)	4.2 (72)	2.0 (35)	0.6 (11)	10.2 (175)
W	0.1 (1)	0.6 (11)	2.7 (47)	2.0 (35)	1.2 (21)	0.5 (9)	7.2 (124)
WNW	0.1 (2)	0.9 (15)	1.2 (20)	0.7 (12)	0.1 (1)	0.1 (2)	3.0 (52)
NW	0.0 (0)	0.6 (10)	0.2 (4)	0.7 (12)	0.3 (6)	0.0 (0)	1.9 (32)
NNW	0.0 (0)	0.3 (6)	0.1 (2)	0.6 (10)	0.6 (11)	0.3 (6)	2.0 (35)
TOTAL	0.8 (13)	6.4 (110)	12.0 (206)	20.4 (351)	11.0 (190)	3.3 (57)	53.8 (927)

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1007

NUMBER OF MISSING WIND OBSERVATIONS: 80

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - F

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.2 (3)	0.2 (4)	0.5 (8)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.1 (1)
NE	0.0 (0)	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
ENE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
E	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
ESE	0.0 (0)	0.1 (2)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (2)
SE	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
SSE	0.0 (0)	0.0 (0)	0.1 (1)	0.2 (4)	0.0 (0)	0.0 (0)	0.3 (5)
S	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)	0.1 (1)	0.0 (0)	0.2 (4)
SSW	0.0 (0)	0.1 (1)	0.1 (2)	0.5 (9)	0.1 (1)	0.0 (0)	0.8 (13)
SW	0.0 (0)	0.1 (1)	0.2 (4)	0.0 (0)	0.0 (0)	0.0 (0)	0.3 (5)
WSW	0.0 (0)	0.0 (0)	0.6 (11)	0.3 (6)	0.2 (3)	0.1 (1)	1.2 (21)
W	0.0 (0)	0.3 (6)	0.1 (2)	0.3 (6)	0.2 (4)	0.2 (4)	1.3 (22)
WNW	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NNW	0.0 (0)	0.1 (2)	0.1 (1)	0.1 (1)	0.1 (1)	0.1 (1)	0.3 (6)
TOTAL	0.0 (0)	0.8 (13)	1.5 (25)	1.8 (31)	0.8 (14)	0.6 (10)	5.4 (93)

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 93

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

SITE: NINE MILE UPPER (9)

JG120*

STABILITY CLASS - G

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)					TOTAL
	00-03	04-07	08-12	13-18	19-23	
N	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)	0.3 (6)
NNE	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
NE	0.0 (0)	0.2 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
ENE	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
E	0.0 (0)	0.1 (1)	0.1 (1)	0.0 (0)	0.0 (0)	0.1 (2)
ESE	0.0 (0)	0.2 (3)	0.1 (2)	0.1 (2)	0.0 (0)	0.4 (7)
SE	0.0 (0)	0.1 (1)	0.2 (3)	0.3 (5)	0.0 (0)	0.5 (9)
SSE	0.0 (0)	0.1 (1)	0.3 (5)	0.3 (6)	0.0 (0)	0.7 (12)
S	0.0 (0)	0.1 (2)	0.3 (5)	0.5 (9)	0.1 (1)	1.0 (17)
SSW	0.0 (0)	0.1 (2)	0.3 (6)	0.2 (2)	0.0 (0)	0.6 (10)
SW	0.1 (1)	0.3 (6)	0.3 (5)	0.2 (4)	0.0 (0)	0.9 (16)
WSW	0.0 (0)	0.6 (10)	0.4 (7)	0.3 (6)	0.1 (2)	1.5 (25)
W	0.0 (0)	0.3 (6)	0.2 (4)	0.1 (1)	0.1 (2)	0.9 (15)
WNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.1 (1)
NW	0.1 (1)	0.1 (1)	0.0 (0)	0.2 (3)	0.1 (1)	0.3 (6)
NNW	0.0 (0)	0.1 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.2 (3)
TOTAL	0.1 (2)	2.3 (40)	2.2 (38)	2.2 (38)	0.5 (8)	7.7 (133)

Attachment to JAFP-84-0823

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 133

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

STABILITY CLASS - ALL

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.0 (0)	0.7 (12)	0.6 (10)	1.0 (17)	1.3 (23)	1.2 (21)	4.8 (83)
NNE	0.1 (1)	1.2 (20)	1.0 (18)	2.0 (35)	0.8 (13)	0.8 (14)	5.9 (101)
NE	0.2 (3)	1.2 (20)	1.3 (23)	0.8 (13)	0.6 (10)	0.0 (0)	4.0 (69)
ENE	0.1 (2)	0.6 (10)	0.2 (4)	0.0 (0)	0.1 (1)	0.0 (0)	1.0 (17)
E	0.1 (1)	0.3 (6)	0.3 (6)	0.4 (7)	0.1 (1)	0.1 (1)	1.3 (22)
ESE	0.1 (1)	0.6 (11)	0.5 (9)	2.4 (42)	1.9 (33)	0.9 (15)	6.4 (111)
SE	0.0 (0)	0.1 (2)	0.6 (11)	3.5 (60)	2.6 (45)	0.1 (1)	6.9 (119)
SSE	0.0 (0)	0.2 (3)	1.3 (23)	2.5 (43)	0.9 (16)	0.2 (3)	5.1 (88)
S	0.1 (1)	0.5 (8)	1.3 (22)	2.8 (48)	1.7 (29)	0.2 (3)	6.4 (111)
SSW	0.1 (2)	0.5 (9)	0.8 (14)	3.0 (51)	0.2 (3)	0.0 (0)	4.6 (79)
SW	0.1 (2)	1.0 (17)	1.6 (28)	2.1 (37)	0.1 (1)	0.0 (0)	4.9 (85)
WSW	0.1 (1)	1.1 (19)	5.4 (93)	8.2 (142)	4.4 (75)	1.5 (26)	20.7 (356)
W	0.1 (1)	2.0 (35)	6.3 (109)	3.8 (65)	2.5 (43)	1.4 (24)	16.1 (277)
WNW	0.2 (3)	1.3 (22)	1.7 (30)	1.3 (22)	0.2 (3)	0.1 (2)	4.8 (82)
NW	0.1 (1)	1.0 (17)	0.5 (8)	1.3 (22)	0.5 (8)	0.0 (0)	3.3 (56)
NNW	0.0 (0)	0.6 (11)	0.7 (12)	1.2 (21)	0.8 (14)	0.5 (9)	3.9 (67)
TOTAL	1.1 (19)	12.9 (222)	24.4 (420)	36.3 (625)	18.5 (318)	6.9 (119)	100.0 (1723)

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1809

NUMBER OF MISSING WIND OBSERVATIONS: 86

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR APR 1 1984 THROUGH JUNE 30 1984

JG120*

% FREQUENCY (NO. OF OCCURRENCES) OF WIND DIRECTION WITHIN WIND SPEED CATEGORY

DIR	SPEED (MPH)						TOTAL
	00-03	04-07	08-12	13-18	19-23	>24	
N	0.1 (2)	0.6 (13)	0.8 (16)	1.2 (24)	1.3 (26)	1.4 (28)	5.4 (109)
NNE	0.0 (1)	1.1 (22)	1.2 (24)	2.1 (43)	0.6 (13)	0.8 (17)	6.0 (120)
NE	0.2 (5)	1.2 (25)	1.5 (30)	0.6 (13)	0.5 (10)	0.0 (0)	4.1 (83)
ENE	0.1 (3)	0.6 (13)	0.7 (15)	0.0 (0)	0.0 (1)	0.0 (0)	1.6 (32)
E	0.0 (1)	0.3 (6)	0.6 (12)	0.5 (10)	0.0 (1)	0.0 (1)	1.5 (31)
ESE	0.0 (1)	0.6 (13)	0.5 (11)	2.4 (48)	1.7 (34)	0.7 (15)	6.1 (122)
SE	0.0 (0)	0.1 (2)	0.6 (13)	3.3 (66)	2.3 (46)	0.0 (1)	6.4 (128)
SSE	0.0 (1)	0.1 (3)	1.2 (24)	2.2 (45)	0.8 (17)	0.1 (3)	4.6 (93)
S	0.1 (2)	0.6 (12)	1.2 (24)	2.6 (52)	1.4 (29)	0.1 (3)	6.1 (122)
SSW	0.1 (2)	0.6 (13)	1.0 (21)	2.7 (54)	0.1 (3)	0.0 (0)	4.6 (93)
SW	0.1 (2)	1.4 (28)	2.3 (47)	2.0 (40)	0.0 (1)	0.0 (0)	5.9 (118)
WSW	0.2 (4)	1.3 (26)	5.7 (114)	7.3 (146)	3.9 (78)	1.4 (28)	19.7 (396)
W	0.1 (3)	1.9 (38)	5.8 (117)	3.4 (69)	2.5 (50)	1.5 (31)	15.4 (308)
WNW	0.1 (3)	1.2 (25)	1.5 (30)	1.2 (25)	0.2 (4)	0.2 (5)	4.6 (92)
NW	0.1 (3)	1.0 (20)	0.7 (14)	1.3 (26)	0.7 (15)	0.1 (2)	4.0 (80)
NNW	0.0 (1)	0.7 (15)	0.7 (14)	1.1 (23)	0.8 (16)	0.5 (10)	3.9 (79)
TOTAL	1.7 (34)	13.7 (274)	26.2 (526)	34.1 (684)	17.1 (344)	7.2 (144)	100.0 (2006)

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2184

NUMBER OF MISSING WIND OBSERVATIONS: 178

NUMBER OF CALM HOURS: 0

Attachment to JAFP-84-0823

James A. FitzPatrick
Nuclear Power Plant
P.O. Box 41
Lycoming, New York 13093
315 342.3840



Corbin A. McNeill, Jr.
Resident Manager

August 27, 1984
JAFF-84-0823

United States Nuclear
Regulatory Commission
Region 1
631 Park Avenue
King Of Prussia, PA 19406

Attention: Thomas E. Murley
Regional Administrator

SUBJECT: JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333, LICENSE NO. DPR-59

Gentlemen:

In accordance with the requirements in Appendix B of the James A. FitzPatrick Nuclear Power Plant Technical Specifications Section 5.6.1 b (Facility Operating License No. DPR-59, Docket No. 50-333), we submit the Radioactive Effluent Release Report for the period January 1, 1984 through June 30, 1984.

The format used is as outlined in Regulatory Guide 1.21.

Meteorological data, in accordance with Regulatory Guide 1.23, is included.

Distribution for this report is, in accordance with Regulatory Guide 10.1.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'C. McNeill, Jr.', with a long horizontal flourish extending to the right.

CORBIN A. McNEILL, JR.

CAM:EAM:jaa

Attachments

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