

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

JULY 1984 - DECEMBER 1984

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NEW YORK POWER AUTHORITY
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
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 SEMIANNUAL REPORT/JULY 1984 - DECEMBER 1984
 SUPPLEMENTAL INFORMATION

UTILITY: JAFNPPLICENSEE: NEW YORK POWER AUTHORITY1. Regulatory Limits

a. Fission and activation gases:

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

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:

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

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) | 3.11E-05 $\mu\text{Ci/ml}$ | Quarter 3 |
| (2) | 3.40E-05 $\mu\text{Ci/ml}$ | Quarter 4 |

| 3. | <u>Average Energy, \bar{E}</u> | Unit | Quarter 3 | Quarter 4 |
|----|---|------|-----------|-----------|
| a. | Elevated release: | MeV | 4.88E-01 | 8.35E-01 |
| b. | Ground level release: | MeV | 1.83E-01 | 5.28E-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: | Quarter 3 | Quarter 4 |
|--|------------------|------------|
| (1) Number of batch releases: | 16 | 129 |
| (2) Total time period for batch releases: | 18.3 hrs. | 142.6 hrs. |
| (3) Maximum time period for batch release: | 2.08 hrs. | 2.25 hrs. |
| (4) Average time period for batch release: | 1.15 hrs. | 1.10 hrs. |
| (5) Minimum time period for batch release: | 0.13 hrs. | 0.17 hrs. |
| (6) Average stream flow: | (Not applicable) | |

6. Abnormal Releases

| a. Liquid: | Quarter 3 | Quarter 4 |
|------------------------------|-----------|-----------|
| (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/JULY 1984 - DECEMBER 1984
GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

| | UNIT | QUARTER 3 | QUARTER 4 | EST. TOTAL ERROR % |
|---|--------------|-----------|-----------|--------------------------|
| A. FISSION AND ACTIVATION GASES | | | | |
| 1. Total release | Ci | 5.70E+03 | 1.05E+04 | 1.00E+01 |
| 2. Average release rate for period | μ Ci/sec | 7.17E+02 | 1.32E+03 | |
| 3. Tech. Spec. limit | % | * | * | |
| B. IODINES | | | | |
| 1. Total iodine-131 | Ci | 2.57E-02 | 2.92E-02 | 1.00E+01 |
| 2. Average release rate for period | μ Ci/sec | 3.23E-03 | 3.67E-03 | |
| 3. Tech. Spec. limit | % | * | * | |
| C. PARTICULATES | | | | |
| 1. Particulates with half-lives >8 days | Ci | 6.75E-03 | 1.49E-02 | 1.00E+01 |
| 2. Average release rate for period | μ Ci/sec | 8.49E-04 | 1.87E-03 | |
| 3. Tech. Spec. limit | % | * | * | |
| 4. Gross alpha radioactivity | Ci | 3.74E-06 | 5.71E-03 | 1.00E+01 |
| D. TRITIUM | | | | |
| 1. Total release | Ci | 1.64E 00 | 1.63E 00 | 1.00E+01 |
| 2. Average release rate for period | μ Ci/sec | 2.06E-01 | 2.05E-01 | |
| *E. PERCENT OF TECHNICAL SPECIFICATION LIMITS | | | | |
| FISSION AND ACTIVATION GASES | | | | |
| 1. JAF elevated release | % | 4.40E-02 | 1.56E-01 | |
| 2. NMP-1 elevated release | % | 3.00E-03 | 2.00E-03 | |
| 3. JAF ground level release | % | 1.15E-01 | 3.20E-02 | |
| 4. Total site release | % | 1.62E-01 | 1.90E-01 | |
| HALOGENS AND PARTICULATES WITH HALF-LIVES >8 DAYS | | | | |
| 5. JAF elevated release | % | 2.10E-02 | 1.45E-01 | |
| 6. NMP-1 elevated release | % | 9.90E-03 | 1.50E-02 | |
| 7. JAF ground level release | % | 3.19E 00 | 4.70E-01 | |
| 8. Total site release | % | 3.22E 00 | 6.30E-01 | |

TABLE 1B

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

CONTINUOUS MODE

| NUCLIDES RELEASED | UNIT | QUARTER 3 | QUARTER 4 |
|-------------------------|------|-----------|-----------|
| 1. <u>Fission gases</u> | | | |
| Nitrogen-13 | Ci | 4.67E+01 | 1.62E+03 |
| Argon-41 | Ci | ND | 7.60E-01 |
| Krypton-85m | Ci | 3.25E+02 | 2.49E+02 |
| Krypton-87 | Ci | 3.55E+02 | 2.83E+02 |
| Krypton-88 | Ci | 6.58E+02 | 6.73E+02 |
| Xenon-131m | Ci | 1.02E+03 | 1.31E+02 |
| Xenon-133 | Ci | 2.95E+02 | 8.78E+01 |
| Xenon-133m | Ci | ND | 7.20E 00 |
| Xenon-135 | Ci | 2.29E+03 | 1.49E+03 |
| Xenon-135m | Ci | 2.15E+01 | 1.24E+03 |
| Xenon-138 | Ci | 3.85E+01 | 4.59E+03 |
| 2. <u>Iodines</u> | | | |
| Iodine-131 | Ci | 4.19E-03 | 2.68E-02 |
| Iodine-133 | Ci | 3.66E-03 | 1.28E-04 |
| Iodine-135 | Ci | 4.26E-03 | 1.46E-04 |
| 3. <u>Particulates</u> | | | |
| Manganese-54 | Ci | 2.97E-06 | ND |
| Cobalt-58 | Ci | 3.13E-06 | 4.35E-05 |
| Cobalt-60 | Ci | 1.08E-05 | 1.37E-05 |
| Strontium-89 | Ci | 1.78E-04 | 7.66E-03 |
| Strontium-90 | Ci | 2.96E-07 | 3.96E-05 |
| Cesium-137 | Ci | 1.73E-06 | 4.19E-05 |
| Barium-Lanthanum-140 | Ci | 8.79E-05 | 3.75E-03 |

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/JULY 1984 - DECEMBER 1984
GASEOUS EFFLUENTS--GROUND LEVEL RELEASES

| NUCLIDES RELEASED | UNIT | CONTINUOUS MODE | |
|-------------------------|------|-----------------|-----------|
| | | QUARTER 3 | QUARTER 4 |
| 1. <u>Fission gases</u> | | | |
| Nitrogen-13 | Ci | 1.12E+01 | ND |
| Krypton-87 | Ci | 1.02E 00 | ND |
| Krypton-88 | Ci | 2.23E 00 | ND |
| Xenon-131m | Ci | ND | 2.90E 00 |
| Xenon-133 | Ci | 3.27E+02 | 9.16E 00 |
| Xenon-133m | Ci | ND | 3.95E 00 |
| Xenon-135 | Ci | 2.65E+02 | 2.22E+01 |
| Xenon-135m | Ci | 3.58E+01 | 8.14E 00 |
| Xenon-138 | Ci | 7.80E 00 | 3.19E+01 |
| 2. <u>Iodines</u> | | | |
| Iodine-131 | Ci | 2.15E-02 | 2.41E-03 |
| Iodine-133 | Ci | 1.97E-01 | 4.30E-02 |
| Iodine-135 | Ci | 2.53E-01 | 3.61E-02 |
| 3. <u>Particulates</u> | | | |
| Chromium-51 | Ci | 5.61E-04 | 1.42E-04 |
| Manganese-54 | Ci | 4.52E-04 | 4.44E-05 |
| Cobalt-58 | Ci | 4.84E-05 | 2.14E-06 |
| Cobalt-60 | Ci | 1.05E-03 | 1.17E-03 |
| Zinc-65 | Ci | 2.79E-04 | 1.38E-04 |
| Strontium-89 | Ci | 9.91E-04 | 1.32E-03 |
| Strontium-90 | Ci | 4.95E-06 | 3.70E-06 |
| Zirconium-Niobium-95 | Ci | 1.78E-06 | 8.58E-06 |
| Cesium-134 | Ci | ND | 1.37E-05 |
| Cesium-137 | Ci | 2.17E-06 | 2.18E-05 |
| Barium-Lanthanum-140 | Ci | 2.98E-03 | 5.26E-04 |
| Cerium-141 | Ci | 9.43E-05 | 8.04E-06 |

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/JULY 1984 - DECEMBER 1984
 LIQUID EFFLUENTS--SUMMATION OF ALL RELEASES

| | UNIT | QUARTER 3 | QUARTER 4 | EST. TOTAL ERROR % |
|--|-------------|-----------|-----------|--------------------------|
| A. FISSION AND ACTIVATION PRODUCTS | | | | |
| 1. Total release (not including tritium and alpha) | Ci | 7.34E-03 | 5.90E-02 | .00E+01 |
| 2. Average diluted concentration during period | μ C/ml | 3.16E-11 | 4.31E-10 | |
| 3. Applicable limit | % | 1.02E-04 | 1.27E-03 | |
| B. TRITIUM | | | | |
| 1. Total release | Ci | 5.46E-01 | 2.53E 00 | 1.00E+01 |
| 2. Average diluted concentration during period | μ Ci/ml | 2.35E-09 | 1.84E-08 | |
| 3. Applicable limit | % | 7.84E-05 | 6.15E-04 | |
| C. DISSOLVED AND ENTRAINED GASES | | | | |
| 1. Total release | Ci | 7.95E-01 | 1.93E-01 | 1.00E+01 |
| 2. Average diluted concentration during period | μ Ci/ml | 3.43E-09 | 1.41E-07 | |
| 3. Applicable limit | % | 3.43E-13 | 1.41E-11 | |
| D. GROSS ALPHA RADIOACTIVITY | | | | |
| Total release | Ci | 5.27E-05 | 3.63E-04 | 1.00E+01 |
| E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION) | | | | |
| | Liters | 6.07E+05 | 4.95E+06 | 1.00E+01 |
| F. VOLUME OF DILUTION WATER USED DURING PERIOD | | | | |
| | Liters | 2.32E+11 | 1.37E+11 | 1.00E+01 |

TABLE 2B

NEW YORK POWER AUTHORITY
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EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT/JULY 1984 - DECEMBER 1984
LIQUID EFFLUENTS

| NUCLIDES RELEASED | UNIT | BATCH MODE | |
|----------------------|------|------------|-----------|
| | | QUARTER 3 | QUARTER 4 |
| Chromium-51 | Ci | 4.94E-05 | 2.46E-04 |
| Manganese-54 | Ci | 1.76E-03 | 7.79E-03 |
| Cobalt-58 | Ci | 5.80E-04 | 1.84E-03 |
| Iron-59 | Ci | 4.06E-05 | 2.52E-04 |
| Cobalt-60 | Ci | 3.67E-03 | 2.71E-02 |
| Zinc-65 | Ci | 7.93E-05 | 6.09E-04 |
| Arsenic-76 | Ci | 1.33E-04 | 1.56E-04 |
| Krypton-85m | Ci | ND | 1.04E-06 |
| Zirconium-Niobium-95 | Ci | ND | 1.41E-04 |
| Technetium-99m | Ci | 2.12E-06 | 3.37E-05 |
| Antimony-124 | Ci | ND | 1.87E-05 |
| Iodine-131 | Ci | 3.47E-06 | 1.37E-05 |
| Iodine-133 | Ci | ND | 6.35E-05 |
| Xenon-133 | Ci | 2.56E-04 | 1.64E-03 |
| Cesium-134 | Ci | 1.05E-05 | 1.23E-04 |
| Xenon-135 | Ci | 5.41E-04 | 1.77E-02 |
| Cesium-137 | Ci | 1.87E-06 | 4.72E-04 |
| Barium-Lanthanum-140 | Ci | 6.34E-05 | 9.42E-05 |
| Cerium-141 | Ci | 5.34E-05 | 6.98E-05 |
| Cerium-144 | Ci | 1.34E-05 | 5.40E-06 |
| Neptunium-239 | Ci | ND | 7.82E-06 |

NOTES:

1. There are no continuous mode discharges for this period.
2. Strontium 89 and 90 were specifically analyzed for in composite sample and were recorded as MDL's (minimum detectable levels).
3. ND - None detected.

TABLE 3

NEW YORK POWER AUTHORITY
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EFFLUENT AND WASTE DISPOSAL
SEMIANNUAL REPORT/JULY 1984 - DECEMBER 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 | m ³ | 1.06E+02 | 1.00E+01 |
| evaporator bottoms, etc. | Ci | 5.70E+02 | 1.00E+01 |
| b. Dry compressible waste, | m ³ | 1.74E+02 | 1.00E+01 |
| contaminated equipment, etc. | Ci | 1.68E+01 | 1.00E+01 |
| c. Irradiated components (None) | | | |
| d. Other (None) | | | |
| 2. <u>Estimate of Major Nuclide Composition</u> | | | |
| Cobalt-60 | | 44.0% | 1.00E+01 |
| Iron-55 | | 38.0% | |
| Cesium-137 | | 5.0% | |
| Manganese-54 | | 4.0% | |
| Chromium-51 | | 2.0% | |
| Strontium-89 | | 2.0% | |
| Cesium-134 | | 2.0% | |
| Zinc-65 | | 1.0% | |
| Strontium-90 | | 0.6% | |
| Cobalt-58 | | 0.8% | |
| Nickel-63 | | 0.5% | |
| Nickel-59 | | 0.2% | |

3. Solid Waste Disposition

| SHIPMENT | QTY. | TRANSPORTA- TION MODE | DESTINATION |
|--------------|------|--------------------------|--------------|
| Type a and b | 25 | Truck | Barnwell, SC |
| Type b | 7 | 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.

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

JULY 1984 - DECEMBER 1984

EXCEPTIONS TO THE PROGRAM

1. Environmental radiation monitor J onsite was inoperable from July 16, 1984 (0001 hours) to July 19, 1984 (1334 hours). Inoperability was caused by vandalism to the environmental station (the monitor detector was stolen).
2. Environmental radiation monitor D-1 onsite was inoperable from August 5, 1984 (0630 hours) to August 8, 1984 (1307 hours). Inoperability was caused by an electrical malfunction.
3. The air sampling pump at the I onsite environmental sampling station was inoperable from August 20, 1984 (1025 hours) to August 23, 1984 (1107 hours). Inoperability was caused by pump mechanical problems.
4. The air sampling pump and environmental radiation monitor at the F onsite environmental sampling station were inoperable from August 30, 1984 (2205 hours) to September 4, 1984 (1121 hours). Inoperability was caused by an electrical malfunction.
5. The air sampling pump at C offsite environmental sampling station was inoperable from September 26, 1984 (1700 hours) to October 4, 1984 (1020 hours). Inoperability was caused by pump mechanical problems.
6. The air sampling pump at D-2 offsite environmental sampling station was inoperable from September 27, 1984 (1720 hours) to October 4, 1984 (1135 hours). Inoperability was caused by pump mechanical problems.
7. Environmental radiation monitor D-1 offsite was inoperable from November 26, 1984 (0730 hours) to November 27, 1984 (0830 hours). Inoperability was due to rapid chart paper advance. No high trips were indicated by the high trip light. The high trip light was verified to be operational. The chart paper ran out prior to its scheduled replacement date because the chart advance circuitry malfunctioned which resulted in the rapid chart paper advance. This was replaced by an instrumentation and control technician in the field. The chart paper was replaced and the monitor returned to normal operation on November 27, 1984 (0830 hours).

EXCEPTIONS TO THE PROGRAM (continued)

8. The air sampling pump and environmental radiation monitor at K onsite environmental sampling station was inoperable from November 29, 1984 (0030 hours) to November 30, 1984 (1600 hours). Inoperability was caused by a power outage due to a transformer failure.
9. The air sampling pump at D-2 onsite environmental sampling station was inoperable from December 10, 1984 (0909 hours) to December 17, 1984 (0845 hours). Inoperability was caused by a blown fuse.
10. The air sampling pump at G onsite environmental sampling station was inoperable from December 12, 1984 (1607 hours) to December 17, 1984 (1022 hours). Inoperability was caused by pump mechanical problems.
11. The air sampling pump at the D-2 onsite environmental sampling station was inoperable from December 17, 1984 (0830 hours) to December 27, 1984 (1030 hours). Inoperability was caused by pump mechanical problems.

***** 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.

ATTACH. TO JAFP-85-0193

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 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 | 0.3 (7) | 0.4 (9) | 0.0 (1) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 1.1 (22) |
| NNE | 0.1 (2) | 0.5 (11) | 0.3 (6) | 0.3 (7) | 0.0 (0) | 0.0 (0) | 1.3 (26) |
| NE | 0.0 (1) | 0.3 (6) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.5 (10) |
| 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 (1) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| SSE | 0.0 (0) | 0.0 (0) | 0.1 (3) | 0.4 (9) | 0.0 (1) | 0.0 (0) | 0.6 (13) |
| S | 0.0 (0) | 0.1 (2) | 0.3 (7) | 0.2 (5) | 0.0 (1) | 0.0 (0) | 0.7 (15) |
| SSW | 0.0 (0) | 0.3 (6) | 0.2 (4) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.5 (11) |
| SW | 0.0 (0) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| WSW | 0.0 (0) | 0.1 (3) | 0.1 (2) | 0.2 (5) | 0.1 (2) | 0.0 (0) | 0.6 (12) |
| W | 0.0 (0) | 0.3 (7) | 0.5 (10) | 0.3 (6) | 0.1 (3) | 0.0 (0) | 1.3 (26) |
| WNW | 0.1 (3) | 0.9 (19) | 1.0 (20) | 0.4 (8) | 0.0 (0) | 0.0 (1) | 2.5 (51) |
| NW | 0.0 (1) | 0.7 (15) | 0.6 (12) | 0.4 (8) | 0.0 (0) | 0.0 (1) | 1.8 (37) |
| NNW | 0.0 (0) | 0.4 (9) | 0.6 (12) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 1.3 (26) |
| TOTAL | 0.7 (15) | 4.4 (90) | 3.8 (79) | 3.0 (61) | 0.3 (7) | 0.1 (2) | 12.3 (254) |

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 255

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 2

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 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 (1) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.1 (3) |
| NNE | 0.0 (1) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| NE | 0.0 (0) | 0.0 (1) | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| ENE | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (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) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) |
| SE | 0.0 (0) | 0.1 (2) | 0.0 (1) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.3 (6) |
| SSE | 0.0 (1) | 0.0 (0) | 0.1 (2) | 0.1 (3) | 0.0 (1) | 0.0 (0) | 0.3 (6) |
| S | 0.0 (0) | 0.0 (1) | 0.0 (1) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.2 (5) |
| SSW | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| 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 (1) | 0.0 (0) | 0.2 (5) | 0.3 (7) | 0.1 (3) | 0.0 (0) | 0.8 (16) |
| W | 0.0 (1) | 0.1 (3) | 0.1 (3) | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.4 (9) |
| WNW | 0.1 (2) | 0.2 (4) | 0.1 (3) | 0.0 (0) | 0.1 (2) | 0.1 (3) | 0.7 (14) |
| NW | 0.0 (1) | 0.1 (3) | 0.1 (2) | 0.1 (2) | 0.0 (0) | 0.0 (1) | 0.4 (9) |
| NNW | 0.0 (0) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| TOTAL | 0.4 (9) | 0.9 (19) | 1.1 (22) | 0.9 (18) | 0.4 (9) | 0.2 (4) | 3.9 (81) |

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 82

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 1

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

STABILITY CLASS - C

% 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 (1) | 0.0 (0) | 0.1 (3) |
| NNE | 0.0 (0) | 0.3 (6) | 0.0 (0) | 0.0 (1) | 0.1 (2) | 0.0 (0) | 0.4 (9) |
| NE | 0.0 (0) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| 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 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| SE | 0.0 (0) | 0.0 (0) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| SSE | 0.0 (0) | 0.0 (0) | 0.1 (3) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| S | 0.0 (0) | 0.0 (1) | 0.1 (3) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.2 (5) |
| SSW | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| SW | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| WSW | 0.0 (1) | 0.2 (5) | 0.2 (4) | 0.5 (10) | 0.0 (0) | 0.0 (0) | 1.0 (20) |
| W | 0.0 (0) | 0.2 (4) | 0.4 (8) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 0.8 (17) |
| WNW | 0.0 (1) | 0.2 (4) | 0.1 (2) | 0.0 (0) | 0.0 (1) | 0.1 (2) | 0.5 (10) |
| NW | 0.0 (1) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| NNW | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| TOTAL | 0.2 (4) | 1.4 (29) | 1.3 (26) | 1.0 (20) | 0.2 (4) | 0.1 (2) | 4.1 (85) |

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 88

NUMBER OF MISSING WIND OBSERVATIONS: 3

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

STABILITY CLASS - D

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

| DIR | 00-03 | 04-07 | 08-12 | 13-16 | 19-23 | >24 | TOTAL |
|-------|-----------|-----------|------------|------------|-----------|-----------|-------------|
| N | 0.2 (4) | 0.2 (5) | 0.2 (4) | 0.1 (3) | 0.2 (5) | 0.0 (0) | 1.0 (21) |
| NNE | 0.1 (2) | 0.1 (2) | 0.3 (6) | 0.4 (8) | 0.4 (9) | 0.4 (9) | 1.8 (36) |
| NE | 0.2 (5) | 0.3 (6) | 0.2 (5) | 0.3 (6) | 0.0 (1) | 0.0 (1) | 1.2 (24) |
| ENE | 0.1 (3) | 0.0 (1) | 0.2 (4) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.5 (11) |
| E | 0.0 (1) | 0.3 (6) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (9) |
| ESE | 0.0 (1) | 0.0 (1) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.2 (5) |
| SE | 0.0 (0) | 0.1 (2) | 0.4 (9) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 0.8 (16) |
| SSE | 0.0 (0) | 0.5 (10) | 0.6 (13) | 0.6 (12) | 0.2 (4) | 0.0 (0) | 1.9 (39) |
| S | 0.0 (1) | 0.3 (6) | 1.0 (21) | 0.7 (14) | 0.2 (5) | 0.0 (0) | 2.3 (47) |
| SSW | 0.0 (1) | 0.4 (8) | 0.8 (17) | 0.6 (13) | 0.1 (2) | 0.0 (0) | 2.0 (41) |
| SW | 0.0 (0) | 0.0 (1) | 0.3 (6) | 0.4 (9) | 0.0 (0) | 0.0 (0) | 0.8 (16) |
| WSW | 0.0 (1) | 0.3 (6) | 1.2 (24) | 1.5 (30) | 0.3 (7) | 0.1 (2) | 3.4 (70) |
| W | 0.2 (5) | 0.5 (11) | 1.4 (29) | 1.0 (20) | 1.1 (22) | 0.8 (16) | 5.0 (103) |
| NNW | 0.1 (3) | 0.4 (8) | 0.6 (13) | 0.4 (8) | 0.4 (8) | 0.5 (11) | 2.5 (51) |
| NW | 0.0 (1) | 0.3 (6) | 0.1 (3) | 0.4 (8) | 0.2 (5) | 0.2 (4) | 1.3 (27) |
| NNW | 0.0 (1) | 0.1 (2) | 0.2 (4) | 0.2 (5) | 0.1 (2) | 0.0 (1) | 0.7 (15) |
| TOTAL | 1.4 (29) | 3.9 (81) | 7.9 (162) | 7.0 (145) | 3.4 (70) | 2.1 (44) | 25.8 (531) |

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 559

NUMBER OF MISSING WIND OBSERVATIONS: 28

NUMBER OF CALM HOURS: 6

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

STABILITY CLASS - E

% 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 | 0.2 (5) | 0.2 (4) | 0.1 (2) | 0.2 (4) | 0.1 (3) | 0.2 (5) | 1.1 (23) |
| NNE | 0.1 (2) | 0.1 (3) | 0.6 (12) | 0.1 (3) | 0.1 (2) | 0.0 (1) | 1.1 (23) |
| NE | 0.1 (2) | 0.4 (9) | 0.4 (9) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 1.1 (23) |
| ENE | 0.0 (1) | 0.3 (7) | 0.1 (2) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.6 (13) |
| E | 0.1 (2) | 0.2 (4) | 0.3 (6) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.6 (13) |
| ESE | 0.0 (1) | 0.0 (1) | 0.2 (5) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.5 (10) |
| SE | 0.1 (3) | 0.1 (3) | 0.9 (19) | 0.7 (14) | 0.1 (3) | 0.0 (0) | 2.0 (42) |
| SSE | 0.1 (2) | 0.4 (8) | 0.9 (18) | 1.7 (34) | 0.7 (14) | 0.0 (0) | 3.7 (76) |
| S | 0.0 (1) | 0.2 (5) | 1.0 (21) | 2.9 (59) | 0.9 (19) | 0.0 (0) | 5.1 (105) |
| SSW | 0.0 (0) | 0.3 (6) | 0.7 (14) | 1.8 (37) | 0.2 (5) | 0.0 (1) | 3.1 (63) |
| SW | 0.1 (2) | 0.3 (7) | 0.6 (12) | 1.1 (23) | 0.1 (3) | 0.0 (1) | 2.3 (48) |
| WSW | 0.0 (0) | 0.2 (5) | 0.9 (18) | 1.1 (23) | 0.8 (17) | 0.3 (6) | 3.4 (69) |
| W | 0.1 (2) | 0.1 (2) | 0.5 (11) | 0.4 (8) | 0.3 (6) | 0.2 (5) | 1.7 (34) |
| WNW | 0.0 (1) | 0.2 (4) | 0.3 (7) | 0.0 (1) | 0.4 (8) | 0.2 (4) | 1.2 (25) |
| NW | 0.1 (3) | 0.2 (5) | 0.2 (4) | 0.2 (4) | 0.4 (8) | 0.1 (3) | 1.3 (27) |
| NNW | 0.0 (0) | 0.1 (3) | 0.2 (4) | 0.3 (7) | 0.3 (6) | 0.2 (5) | 1.2 (25) |
| TOTAL | 1.3 (27) | 3.7 (76) | 8.0 (164) | 11.0 (226) | 4.6 (95) | 1.5 (31) | 30.1 (619) |

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 633

NUMBER OF MISSING WIND OBSERVATIONS: 14

NUMBER OF CALM HOURS: 0

ATTACH. TO JAFP-35-0193

NIAGARA MOHAWK

AMBIENT AIR MONITORING

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

SITE: NINE MILE UPPER (9)

JG120*

STABILITY CLASS - F

% 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 | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| NE | 0.0 (0) | 0.1 (3) | 0.0 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (5) |
| ENE | 0.1 (3) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (8) |
| E | 0.1 (2) | 0.3 (7) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.7 (14) |
| ESE | 0.0 (0) | 0.1 (3) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.3 (6) |
| SE | 0.1 (2) | 0.2 (4) | 0.2 (5) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.4 (9) |
| SSE | 0.0 (0) | 0.2 (4) | 0.1 (2) | 0.5 (10) | 0.2 (4) | 0.0 (0) | 1.0 (20) |
| S | 0.1 (2) | 0.0 (1) | 0.3 (7) | 0.8 (16) | 0.0 (0) | 0.0 (0) | 1.3 (26) |
| SSW | 0.0 (0) | 0.2 (5) | 0.4 (8) | 1.3 (27) | 0.2 (5) | 0.0 (0) | 2.2 (45) |
| SW | 0.1 (2) | 0.4 (8) | 1.0 (20) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 1.7 (35) |
| WSW | 0.0 (1) | 0.2 (4) | 0.9 (19) | 0.2 (5) | 0.0 (1) | 0.0 (1) | 1.5 (31) |
| W | 0.1 (3) | 0.3 (6) | 0.0 (1) | 0.1 (2) | 0.1 (3) | 0.0 (0) | 0.7 (15) |
| WNW | 0.0 (1) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.2 (5) |
| NW | 0.1 (3) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| NNW | 0.0 (1) | 0.0 (0) | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| TOTAL | 1.0 (21) | 2.5 (51) | 3.6 (74) | 3.3 (68) | 0.6 (13) | 0.1 (2) | 11.1 (229) |

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 230

NUMBER OF MISSING WIND OBSERVATIONS: 1

NUMBER OF CALM HOURS: 2

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 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 | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| NNE | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| NE | 0.2 (4) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (8) |
| ENE | 0.0 (1) | 0.2 (4) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.3 (7) |
| E | 0.1 (2) | 0.0 (0) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (5) |
| ESE | 0.2 (4) | 0.2 (4) | 0.4 (8) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 1.0 (20) |
| SE | 0.1 (2) | 0.2 (4) | 0.1 (3) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.6 (13) |
| SSE | 0.1 (2) | 0.2 (5) | 0.2 (5) | 0.4 (8) | 0.0 (1) | 0.0 (0) | 1.0 (21) |
| S | 0.1 (2) | 0.6 (12) | 0.6 (13) | 0.8 (17) | 0.0 (1) | 0.0 (0) | 2.2 (45) |
| SSW | 0.1 (2) | 0.3 (7) | 0.7 (15) | 0.6 (12) | 0.0 (0) | 0.0 (0) | 1.8 (36) |
| SW | 0.1 (2) | 0.8 (17) | 0.9 (18) | 0.8 (17) | 0.0 (0) | 0.0 (0) | 2.6 (54) |
| WSW | 0.2 (5) | 0.7 (15) | 0.4 (8) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 1.5 (30) |
| W | 0.1 (3) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.3 (6) |
| NNW | 0.0 (1) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| NW | 0.0 (0) | 0.1 (3) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (5) |
| NNW | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| TOTAL | 1.7 (35) | 3.8 (79) | 3.8 (79) | 3.1 (63) | 0.1 (2) | 0.0 (0) | 12.5 (258) |

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 258

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 2

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

STABILITY CLASS - ALL

% 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 | 0.9 (19) | 1.1 (23) | 0.3 (7) | 0.6 (12) | 0.5 (10) | 0.2 (5) | 3.7 (76) |
| NNE | 0.4 (8) | 1.2 (25) | 1.2 (25) | 0.9 (19) | 0.6 (13) | 0.5 (10) | 4.9 (100) |
| NE | 0.6 (12) | 1.6 (32) | 0.9 (19) | 0.5 (10) | 0.1 (2) | 0.0 (1) | 3.7 (76) |
| ENE | 0.4 (9) | 0.8 (17) | 0.4 (8) | 0.3 (6) | 0.0 (0) | 0.0 (0) | 1.9 (40) |
| E | 0.3 (7) | 0.8 (17) | 0.8 (16) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 2.0 (41) |
| ESE | 0.3 (6) | 0.4 (9) | 0.9 (19) | 0.4 (8) | 0.0 (0) | 0.0 (0) | 2.0 (42) |
| SE | 0.4 (9) | 0.5 (11) | 2.0 (41) | 1.3 (27) | 0.2 (4) | 0.0 (0) | 4.5 (92) |
| SSE | 0.2 (5) | 1.3 (27) | 2.2 (46) | 3.7 (77) | 1.2 (24) | 0.0 (0) | 8.7 (179) |
| S | 0.3 (6) | 1.4 (28) | 3.5 (73) | 5.5 (114) | 1.3 (27) | 0.0 (0) | 12.1 (243) |
| SSW | 0.1 (3) | 1.7 (34) | 2.9 (60) | 4.4 (91) | 0.6 (12) | 0.0 (1) | 9.8 (201) |
| SW | 0.3 (6) | 1.8 (36) | 2.7 (56) | 2.7 (55) | 0.1 (3) | 0.0 (1) | 7.6 (157) |
| WSW | 0.4 (9) | 1.8 (38) | 3.9 (80) | 4.0 (82) | 1.5 (30) | 0.4 (9) | 12.1 (248) |
| W | 0.7 (14) | 1.8 (36) | 3.0 (62) | 2.0 (42) | 1.7 (35) | 1.0 (21) | 10.2 (210) |
| WNW | 0.6 (12) | 2.0 (41) | 2.3 (48) | 0.8 (17) | 0.9 (19) | 1.1 (22) | 7.7 (159) |
| NW | 0.5 (10) | 1.7 (35) | 1.2 (24) | 1.1 (22) | 0.6 (13) | 0.4 (9) | 5.5 (113) |
| NNW | 0.2 (5) | 0.8 (16) | 1.1 (22) | 0.9 (18) | 0.4 (8) | 0.3 (6) | 3.6 (75) |
| TOTAL | 6.8 (140) | 20.7 (425) | 29.5 (606) | 29.2 (601) | 9.7 (200) | 4.1 (85) | 100.0 (2057) |

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2105

NUMBER OF MISSING WIND OBSERVATIONS: 48

NUMBER OF CALM HOURS: 13

ATTACH. TO JAFP-85-0193

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

----- JG120

% 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 | 0.9 (19) | 1.1 (23) | 0.3 (7) | 0.6 (12) | 0.5 (10) | 0.2 (5) | 3.6 (76) |
| NNE | 0.4 (8) | 1.2 (25) | 1.2 (25) | 0.9 (20) | 0.7 (15) | 0.5 (11) | 4.9 (104) |
| NE | 0.6 (12) | 1.6 (33) | 0.9 (19) | 0.6 (12) | 0.1 (2) | 0.0 (1) | 3.7 (79) |
| ENE | 0.4 (9) | 0.8 (17) | 0.4 (8) | 0.3 (6) | 0.0 (0) | 0.0 (0) | 1.9 (40) |
| E | 0.3 (7) | 0.9 (19) | 0.8 (16) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 2.0 (43) |
| ESE | 0.3 (6) | 0.5 (11) | 0.9 (19) | 0.4 (8) | 0.0 (0) | 0.0 (0) | 2.1 (44) |
| SE | 0.4 (9) | 0.6 (12) | 2.0 (42) | 1.3 (27) | 0.2 (4) | 0.0 (0) | 4.4 (94) |
| SSE | 0.2 (5) | 1.3 (27) | 2.4 (52) | 4.1 (87) | 1.2 (25) | 0.0 (0) | 9.2 (196) |
| S | 0.3 (6) | 1.3 (28) | 3.5 (75) | 5.6 (119) | 1.3 (28) | 0.0 (0) | 12.1 (256) |
| SSW | 0.1 (3) | 1.6 (34) | 2.9 (61) | 4.3 (92) | 0.6 (12) | 0.0 (1) | 9.6 (203) |
| SW | 0.3 (6) | 1.7 (36) | 2.6 (56) | 2.6 (55) | 0.1 (3) | 0.0 (1) | 7.4 (157) |
| WSW | 0.4 (9) | 1.8 (38) | 3.8 (81) | 3.9 (82) | 1.4 (30) | 0.4 (9) | 11.7 (249) |
| W | 0.7 (14) | 1.7 (36) | 3.0 (63) | 2.0 (42) | 1.7 (37) | 1.1 (23) | 10.1 (215) |
| WNW | 0.6 (12) | 1.9 (41) | 2.4 (50) | 0.8 (17) | 1.1 (24) | 1.3 (27) | 8.1 (171) |
| NW | 0.5 (11) | 1.7 (36) | 1.1 (24) | 1.0 (22) | 0.7 (15) | 0.6 (13) | 5.7 (121) |
| NNW | 0.2 (5) | 0.8 (16) | 1.0 (22) | 0.8 (18) | 0.4 (8) | 0.3 (6) | 3.5 (75) |
| TOTAL | 6.6 (141) | 20.3 (432) | 29.2 (620) | 29.2 (620) | 10.0 (213) | 4.6 (97) | 100.0 (2123) |

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 85

NUMBER OF CALM HOURS: 13

ATTACH. TO JAFP-85-0193

***** 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.

ATTACH. TO JAFP-35-0193

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 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) | | | | >24 | TOTAL |
|-------|-----------|------------|-----------|-------------|----------|----------|----------|-------------|-------|
| | | | | 13-18 | 19-23 | | | | |
| N | 0.1 (2) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.3 (6) | |
| NNE | 0.2 (4) | 0.6 (11) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.8 (15) | |
| NE | 0.2 (4) | 0.4 (8) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (12) | |
| ENE | 0.0 (0) | 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) | 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) | 0.0 (0) | |
| SE | 0.0 (0) | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (1) | |
| SSE | 0.0 (0) | 0.2 (4) | 0.2 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (7) | |
| S | 0.1 (2) | 0.1 (2) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (8) | |
| SSW | 0.1 (1) | 0.2 (4) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (7) | |
| SW | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (1) | |
| WSW | 0.1 (2) | 0.2 (4) | 0.3 (6) | 0.3 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.9 (17) | |
| W | 0.3 (6) | 0.5 (10) | 0.8 (16) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.9 (36) | |
| WNW | 0.7 (13) | 1.5 (28) | 0.8 (15) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 3.0 (58) | |
| NW | 0.8 (15) | 1.2 (23) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.2 (42) | |
| NNW | 0.1 (2) | 0.6 (11) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.7 (13) | |
| TOTAL | 2.7 (51) | 5.8 (110) | 2.7 (51) | 0.5 (9) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 11.7 (223) | |

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 255

NUMBER OF MISSING WIND OBSERVATIONS: 32

NUMBER OF CALM HOURS: 0

NINIGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 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) | | | | >24 | TOTAL |
|-------|-----------|-----------|-----------|-------------|----------|----------|----------|-----------|-----------|
| | | | | 13-18 | 19-23 | | | | |
| N | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (1) | 0.1 (1) |
| NNE | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.1 (2) |
| NE | 0.2 (3) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) | 0.2 (4) |
| ENE | 0.0 (0) | 0.0 (0) | 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) | 0.0 (0) | 0.0 (0) |
| ESE | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (1) | 0.1 (1) |
| SE | 0.0 (0) | 0.1 (2) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) | 0.2 (4) |
| SSE | 0.2 (3) | 0.2 (3) | 0.2 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.5 (9) | 0.5 (9) |
| S | 0.0 (0) | 0.1 (1) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (3) | 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) | 0.0 (0) | 0.0 (0) |
| SW | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.1 (2) |
| WSW | 0.0 (0) | 0.2 (3) | 0.4 (8) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.7 (13) | 0.7 (13) |
| W | 0.1 (1) | 0.2 (4) | 0.3 (6) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.8 (15) | 0.8 (15) |
| WNW | 0.2 (3) | 0.4 (7) | 0.1 (1) | 0.0 (0) | 0.2 (3) | 0.0 (0) | 0.0 (0) | 0.7 (14) | 0.7 (14) |
| NW | 0.0 (0) | 0.2 (3) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) | 0.2 (4) |
| NNW | 0.2 (3) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) | 0.2 (4) |
| TOTAL | 0.7 (14) | 1.5 (29) | 1.2 (23) | 0.4 (7) | 0.2 (3) | 0.0 (0) | 0.0 (0) | 4.0 (76) | 4.0 (76) |

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 82

NUMBER OF MISSING WIND OBSERVATIONS: 6

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

STABILITY CLASS - C

X 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 (1) | 0.3 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.3 (6) |
| NE | 0.1 (2) | 0.1 (2) | 0.0 (0) | 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) | 0.0 (0) |
| 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 | 0.0 (0) | 0.1 (1) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| SSE | 0.1 (1) | 0.2 (4) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.3 (6) |
| S | 0.1 (1) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| SSW | 0.1 (1) | 0.1 (2) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| SW | 0.1 (1) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (3) |
| WSW | 0.0 (0) | 0.2 (3) | 0.6 (11) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.9 (18) |
| W | 0.2 (3) | 0.4 (7) | 0.3 (6) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.9 (17) |
| WNW | 0.1 (1) | 0.2 (4) | 0.2 (3) | 0.1 (1) | 0.1 (1) | 0.1 (1) | 0.6 (11) |
| NW | 0.2 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (3) |
| NNW | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| TOTAL | 0.9 (17) | 1.6 (31) | 1.3 (25) | 0.3 (6) | 0.1 (1) | 0.1 (1) | 4.3 (81) |

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 88

NUMBER OF MISSING WIND OBSERVATIONS: 7

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 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 | 0.2 (4) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (8) |
| NNE | 0.3 (5) | 0.8 (15) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.1 (20) |
| NE | 0.4 (8) | 1.4 (26) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.9 (36) |
| ENE | 0.3 (5) | 0.4 (7) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (12) |
| E | 0.3 (5) | 0.3 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.5 (10) |
| ESE | 0.2 (3) | 0.4 (7) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (11) |
| SE | 0.1 (2) | 0.7 (13) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.8 (16) |
| SSE | 0.3 (6) | 1.4 (27) | 0.8 (15) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.5 (48) |
| S | 0.4 (7) | 1.5 (29) | 0.6 (11) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 2.5 (48) |
| SSW | 0.2 (3) | 0.5 (9) | 0.4 (8) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.1 (20) |
| SW | 0.1 (2) | 0.5 (10) | 0.4 (8) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 1.2 (22) |
| WSW | 0.2 (3) | 0.9 (18) | 2.2 (42) | 0.6 (12) | 0.3 (5) | 0.0 (0) | 4.2 (80) |
| W | 0.5 (9) | 0.6 (11) | 1.3 (24) | 1.2 (22) | 1.1 (21) | 0.1 (1) | 4.6 (88) |
| WNW | 0.3 (5) | 0.5 (10) | 1.2 (23) | 0.4 (7) | 0.3 (5) | 0.3 (6) | 2.9 (56) |
| NW | 0.2 (4) | 0.1 (2) | 0.6 (11) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 1.1 (21) |
| NNW | 0.4 (7) | 0.2 (4) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (12) |
| TOTAL | 4.1 (78) | 10.4 (197) | 7.7 (147) | 2.5 (48) | 1.6 (31) | 0.4 (7) | 26.7 (508) |

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 559

NUMBER OF MISSING WIND OBSERVATIONS: 51

NUMBER OF CALM HOURS: 3

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

STABILITY CLASS - E

% 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 | 0.1 (2) | 0.3 (6) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (8) |
| NNE | 0.3 (6) | 0.4 (8) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.7 (14) |
| NE | 1.3 (25) | 0.8 (15) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.2 (41) |
| ENE | 0.6 (11) | 0.4 (7) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.9 (18) |
| E | 0.7 (13) | 0.4 (8) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.2 (22) |
| ESE | 0.9 (17) | 0.6 (11) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.5 (28) |
| SE | 1.2 (23) | 1.3 (24) | 0.3 (6) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.8 (53) |
| SSE | 0.7 (14) | 3.1 (59) | 1.1 (20) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 4.9 (93) |
| S | 0.6 (11) | 2.9 (56) | 1.6 (31) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 5.2 (98) |
| SSW | 0.3 (6) | 1.1 (21) | 0.7 (13) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.1 (40) |
| SW | 0.1 (1) | 1.0 (19) | 0.8 (15) | 0.4 (7) | 0.0 (0) | 0.0 (0) | 2.2 (42) |
| WSW | 0.3 (5) | 0.5 (9) | 1.3 (24) | 0.3 (5) | 0.1 (1) | 0.0 (0) | 2.3 (44) |
| W | 0.1 (1) | 0.3 (5) | 0.3 (5) | 0.7 (14) | 0.2 (3) | 0.0 (0) | 1.5 (28) |
| WNW | 0.2 (3) | 0.2 (4) | 0.2 (4) | 0.3 (6) | 0.2 (3) | 0.0 (0) | 1.1 (20) |
| NW | 0.0 (0) | 0.3 (6) | 0.4 (7) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.7 (14) |
| NNW | 0.1 (2) | 0.3 (5) | 0.2 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.5 (10) |
| TOTAL | 7.4 (140) | 13.8 (263) | 6.8 (130) | 1.7 (33) | 0.4 (7) | 0.0 (0) | 30.1 (573) |

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 633

NUMBER OF MISSING WIND OBSERVATIONS: 60

NUMBER OF CALM HOURS: 10

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

STABILITY CLASS - F

% 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) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) |
| NNE | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (1) |
| NE | 0.2 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (3) |
| ENE | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (1) |
| E | 0.5 (10) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (12) |
| ESE | 1.1 (21) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.2 (23) |
| SE | 0.7 (13) | 0.5 (10) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.2 (23) |
| SSE | 0.7 (13) | 1.3 (25) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.1 (39) |
| S | 0.6 (11) | 2.0 (38) | 0.6 (11) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.2 (60) |
| SSW | 0.2 (4) | 0.8 (15) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.0 (19) |
| SW | 0.0 (0) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| WSW | 0.0 (0) | 0.2 (3) | 0.5 (10) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.7 (14) |
| W | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| WNW | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.1 (1) | 0.0 (0) | 0.1 (2) |
| 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) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (1) |
| TOTAL | 4.0 (77) | 5.4 (102) | 1.2 (22) | 0.1 (2) | 0.1 (1) | 0.0 (0) | 10.7 (204) |

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 230

NUMBER OF MISSING WIND OBSERVATIONS: 26

NUMBER OF CALM HOURS: 8

OSWEGO
NIAGARA MOHAWK

OSWEGO
AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 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) | 0.0 (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 | 0.3 (6) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (8) |
| ESE | 1.1 (20) | 0.5 (10) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.6 (30) |
| SE | 1.9 (36) | 1.7 (33) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.6 (69) |
| SSE | 1.3 (24) | 2.7 (52) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 4.0 (77) |
| S | 0.1 (1) | 2.4 (46) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.5 (48) |
| SSW | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| 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) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (1) |
| NW | 0.0 (0) | 0.1 (1) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| NNW | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) |
| TOTAL | 4.6 (87) | 7.7 (146) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 12.5 (237) |

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 258

NUMBER OF MISSING WIND OBSERVATIONS: 21

NUMBER OF CALM HOURS: 3

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

STABILITY CLASS - ALL

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

| DIR | 00-03 | 04-07 | 08-12 | SPEED (MPH) | | | 19-23 | >24 | TOTAL |
|-------|-------------|-------------|-------------|-------------|-----------|-----------|----------|----------|---------------|
| | | | | 13-18 | | | | | |
| N | 0.4 (8) | 0.9 (17) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.3 (25) |
| NNE | 0.9 (17) | 2.2 (41) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.0 (58) |
| NE | 2.4 (45) | 2.7 (52) | 0.2 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 5.3 (100) |
| ENE | 0.9 (17) | 0.7 (14) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.6 (31) |
| E | 1.8 (35) | 0.9 (17) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.8 (53) |
| ESE | 3.3 (62) | 1.6 (30) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 4.9 (93) |
| SE | 3.9 (74) | 4.4 (83) | 0.6 (11) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 8.8 (168) |
| SSE | 3.2 (61) | 9.1 (173) | 2.3 (44) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 14.7 (279) |
| S | 1.7 (33) | 9.1 (173) | 3.2 (60) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 14.0 (267) |
| SSW | 0.8 (15) | 2.8 (53) | 1.3 (24) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 4.8 (92) |
| SW | 0.2 (4) | 1.8 (35) | 1.3 (25) | 0.5 (10) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.9 (74) |
| WSW | 0.5 (10) | 2.1 (40) | 5.3 (101) | 1.5 (29) | 0.3 (6) | 0.3 (6) | 0.0 (0) | 0.0 (0) | 9.8 (186) |
| W | 1.1 (20) | 2.0 (38) | 3.0 (57) | 2.4 (46) | 1.3 (24) | 1.3 (24) | 0.1 (1) | 0.1 (1) | 9.8 (186) |
| WNW | 1.3 (25) | 2.8 (54) | 2.5 (47) | 0.7 (14) | 0.8 (15) | 0.8 (15) | 0.4 (7) | 0.4 (7) | 8.5 (162) |
| NW | 1.2 (22) | 1.8 (35) | 1.3 (24) | 0.3 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 4.5 (86) |
| NNW | 0.8 (16) | 1.2 (22) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.2 (42) |
| TOTAL | 24.4 (464) | 46.2 (878) | 21.1 (402) | 5.5 (105) | 2.4 (45) | 2.4 (45) | 0.4 (8) | 0.4 (8) | 100.0 (1902) |

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2105

NUMBER OF MISSING WIND OBSERVATIONS: 203

NUMBER OF CALM HOURS: 24

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR JULY 1 1984 THROUGH SEPT 30 1984

JG120*

% 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 | 0.4 (8) | 0.9 (17) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.3 (25) |
| NNE | 0.9 (17) | 2.2 (43) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.1 (60) |
| NE | 2.3 (46) | 2.8 (56) | 0.2 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 5.3 (105) |
| ENE | 0.9 (17) | 0.7 (14) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.6 (31) |
| E | 1.9 (37) | 0.9 (17) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.8 (55) |
| ESE | 3.3 (64) | 1.5 (30) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 4.8 (95) |
| SE | 4.2 (83) | 4.6 (90) | 0.6 (11) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 9.4 (184) |
| SSE | 3.2 (62) | 9.0 (178) | 2.2 (44) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 14.4 (284) |
| S | 1.7 (33) | 9.1 (179) | 3.2 (62) | 0.1 (1) | 0.0 (0) | 0.0 (0) | 14.0 (275) |
| SSW | 0.8 (15) | 2.7 (53) | 1.2 (24) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 4.7 (92) |
| SW | 0.2 (4) | 1.8 (35) | 1.3 (25) | 0.5 (10) | 0.0 (0) | 0.0 (0) | 3.8 (74) |
| WSW | 0.5 (10) | 2.0 (40) | 5.1 (101) | 1.5 (30) | 0.3 (6) | 0.0 (0) | 9.5 (187) |
| W | 1.0 (20) | 1.9 (38) | 3.0 (59) | 2.4 (48) | 1.4 (27) | 0.1 (1) | 9.8 (193) |
| WNW | 1.3 (26) | 2.8 (56) | 2.4 (47) | 1.3 (26) | 0.8 (16) | 0.4 (7) | 9.0 (178) |
| NW | 1.1 (22) | 1.8 (35) | 1.2 (24) | 0.3 (6) | 0.0 (0) | 0.0 (0) | 4.4 (87) |
| NNW | 0.8 (16) | 1.1 (22) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.1 (42) |
| TOTAL | 24.4 (480) | 45.9 (903) | 20.6 (406) | 6.2 (121) | 2.5 (49) | 0.4 (8) | 100.0 (1967) |

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 241

NUMBER OF CALM HOURS: 24

***** 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.

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR OCT 1 1984 THROUGH DEC 31 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 (1) | 0.4 (9) | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.6 (12) |
| NNE | 0.0 (1) | 0.5 (11) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (12) |
| NE | 0.0 (0) | 0.4 (9) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (9) |
| 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 (1) | 0.0 (1) |
| W | 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) | 0.1 (2) | 0.0 (0) | 0.1 (3) | 0.2 (5) |
| NW | 0.0 (0) | 0.1 (3) | 0.2 (4) | 0.1 (3) | 0.0 (1) | 0.1 (2) | 0.6 (13) |
| NNW | 0.1 (2) | 0.1 (3) | 0.3 (6) | 0.4 (9) | 0.0 (0) | 0.0 (0) | 1.0 (20) |
| TOTAL | 0.2 (4) | 1.7 (35) | 0.5 (11) | 0.7 (15) | 0.0 (1) | 0.3 (6) | 3.4 (72) |

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 72

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 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) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (1) |
| NNE | 0.0 (0) | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| NE | 0.0 (1) | 0.0 (1) | 0.0 (0) | 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) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (1) |
| SE | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| 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) |
| NNW | 0.0 (0) | 0.0 (0) | 0.1 (3) | 0.0 (2) | 0.0 (0) | 0.0 (7) | 0.6 (12) |
| NW | 0.0 (0) | 0.0 (1) | 0.1 (3) | 0.5 (10) | 0.0 (0) | 0.1 (3) | 0.8 (17) |
| NNW | 0.0 (0) | 0.0 (1) | 0.1 (2) | 0.7 (15) | 0.4 (8) | 0.0 (1) | 1.3 (27) |
| TOTAL | 0.0 (1) | 0.2 (4) | 0.5 (11) | 1.3 (27) | 0.4 (9) | 0.6 (12) | 3.0 (64) |

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 64

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

STABILITY CLASS - C

% 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 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| NNE | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| NE | 0.0 (1) | 0.0 (1) | 0.0 (0) | 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 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| SE | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| 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) | 0.2 (5) | 0.2 (5) |
| WNW | 0.0 (0) | 0.0 (1) | 0.0 (1) | 0.1 (2) | 0.1 (3) | 0.2 (4) | 0.5 (11) |
| NW | 0.0 (0) | 0.1 (2) | 0.3 (7) | 0.4 (8) | 0.4 (9) | 0.0 (0) | 1.2 (26) |
| NNW | 0.0 (0) | 0.0 (1) | 0.2 (5) | 0.1 (3) | 0.1 (3) | 0.0 (1) | 0.6 (13) |
| TOTAL | 0.1 (2) | 0.3 (7) | 0.7 (15) | 0.6 (13) | 0.7 (15) | 1.0 (22) | 3.5 (74) |

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 74

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

-----JG120

STABILITY CLASS - D

% 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 | 0.2 (4) | 0.6 (13) | 0.1 (2) | 0.1 (2) | 0.0 (0) | 0.1 (2) | 1.1 (23) |
| NNE | 0.3 (7) | 0.7 (15) | 0.2 (4) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 1.3 (27) |
| NE | 0.3 (6) | 1.3 (28) | 0.7 (14) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 2.4 (50) |
| ENE | 0.4 (8) | 0.4 (9) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.9 (18) |
| E | 0.4 (8) | 1.2 (25) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 1.9 (39) |
| ESE | 0.3 (7) | 1.9 (40) | 1.1 (23) | 0.1 (3) | 0.0 (0) | 0.0 (1) | 3.5 (74) |
| SE | 0.0 (1) | 2.6 (54) | 3.2 (68) | 0.4 (8) | 0.0 (0) | 0.0 (0) | 6.2 (131) |
| SSE | 0.0 (1) | 1.8 (37) | 2.9 (60) | 0.4 (9) | 0.0 (0) | 0.0 (0) | 5.1 (107) |
| S | 0.1 (2) | 1.4 (29) | 1.4 (29) | 0.3 (7) | 0.0 (1) | 0.0 (0) | 3.2 (68) |
| SSW | 0.1 (3) | 1.0 (21) | 0.9 (19) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 2.0 (43) |
| SW | 0.0 (1) | 0.4 (8) | 1.3 (28) | 0.3 (6) | 0.0 (0) | 0.0 (0) | 2.0 (43) |
| WSW | 0.0 (0) | 0.0 (1) | 0.5 (10) | 1.0 (20) | 0.8 (16) | 1.3 (27) | 3.5 (74) |
| W | 0.0 (1) | 0.4 (9) | 0.6 (13) | 1.6 (33) | 0.8 (16) | 2.2 (47) | 5.7 (119) |
| WNW | 0.1 (2) | 0.8 (16) | 1.4 (30) | 1.8 (37) | 2.5 (52) | 0.9 (18) | 7.4 (155) |
| NW | 0.2 (4) | 0.8 (16) | 1.9 (39) | 1.4 (29) | 0.6 (12) | 0.0 (1) | 4.8 (101) |
| NNW | 0.1 (3) | 0.5 (10) | 0.8 (16) | 0.1 (3) | 0.0 (0) | 0.1 (2) | 1.6 (34) |
| TOTAL | 2.8 (58) | 15.7 (331) | 17.1 (359) | 7.5 (157) | 4.8 (101) | 4.8 (100) | 52.5 (1106) |

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1106

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

ATTACH. TO JAFP-85-0193

OSWEGO NIAGARA MOHAWK

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

STABILITY CLASS - E

% 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 | 0.3 (6) | 0.0 (1) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.4 (9) |
| NNE | 0.3 (6) | 1.0 (22) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.3 (28) |
| NE | 0.4 (9) | 0.6 (13) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.0 (22) |
| ENE | 0.6 (13) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.9 (18) |
| E | 0.6 (12) | 0.5 (10) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.0 (22) |
| ESE | 0.7 (14) | 2.3 (49) | 0.4 (9) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.4 (72) |
| SE | 0.9 (18) | 2.6 (55) | 3.1 (65) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 6.7 (141) |
| SSE | 0.3 (6) | 2.2 (47) | 1.0 (20) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.5 (73) |
| S | 0.4 (8) | 1.3 (28) | 1.3 (28) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 3.1 (66) |
| SSW | 0.0 (1) | 0.8 (16) | 0.6 (12) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.4 (29) |
| SW | 0.1 (2) | 0.2 (5) | 0.5 (10) | 0.7 (15) | 0.0 (0) | 0.0 (0) | 1.5 (32) |
| WSW | 0.0 (1) | 0.4 (8) | 0.2 (5) | 0.4 (8) | 0.2 (4) | 0.0 (0) | 1.4 (30) |
| W | 0.0 (1) | 0.1 (3) | 0.3 (6) | 0.5 (10) | 0.1 (2) | 0.1 (3) | 1.2 (25) |
| WNW | 0.0 (0) | 0.1 (3) | 0.1 (3) | 0.1 (3) | 0.0 (1) | 0.0 (1) | 0.6 (13) |
| NW | 0.4 (8) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (13) |
| NNW | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| TOTAL | 5.0 (106) | 12.7 (268) | 7.6 (159) | 2.0 (43) | 0.4 (8) | 0.5 (11) | 28.3 (595) |

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 595

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9) DATA FOR OCT 1 1984 THROUGH DEC 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 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| 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 | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| E | 0.2 (5) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.3 (6) |
| ESE | 0.5 (10) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.7 (15) |
| SE | 0.4 (9) | 0.6 (12) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.2 (26) |
| SSE | 0.0 (0) | 0.6 (12) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (12) |
| S | 0.1 (2) | 0.6 (12) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.8 (17) |
| SSW | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| SW | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| WSW | 0.0 (1) | 0.2 (5) | 0.1 (2) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.5 (10) |
| W | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| WNW | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| 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 | 1.5 (32) | 2.3 (49) | 0.6 (13) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 4.7 (98) |

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 98

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK
OSWEGO AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 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) | 0.0 (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 (1) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| ESE | 0.5 (11) | 0.6 (13) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.1 (24) |
| SE | 0.5 (11) | 1.0 (21) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.5 (32) |
| SSE | 0.6 (12) | 0.7 (14) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 1.2 (26) |
| S | 0.0 (1) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (5) |
| SSW | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| SW | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| WSW | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| 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 | 1.8 (38) | 2.6 (55) | 0.0 (1) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 4.6 (96) |

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 96

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

STABILITY CLASS - ALL

% 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 | 0.6 (12) | 1.1 (24) | 0.1 (3) | 0.2 (5) | 0.0 (0) | 0.1 (3) | 2.2 (47) |
| NNE | 0.7 (15) | 2.3 (49) | 0.2 (5) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 3.3 (70) |
| NE | 0.8 (17) | 2.5 (52) | 0.7 (14) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 4.0 (85) |
| ENE | 1.1 (24) | 0.7 (14) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 1.9 (39) |
| E | 1.2 (26) | 1.8 (38) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 3.3 (70) |
| ESE | 2.0 (42) | 5.1 (108) | 1.5 (32) | 0.1 (3) | 0.0 (1) | 0.0 (1) | 8.9 (187) |
| SE | 1.9 (39) | 6.7 (142) | 6.7 (142) | 0.5 (11) | 0.0 (0) | 0.0 (0) | 15.9 (334) |
| SSE | 0.9 (19) | 5.2 (110) | 3.8 (80) | 0.4 (9) | 0.0 (0) | 0.0 (0) | 10.4 (218) |
| S | 0.6 (13) | 3.5 (73) | 2.9 (60) | 0.4 (9) | 0.0 (1) | 0.0 (0) | 7.4 (156) |
| SSW | 0.2 (5) | 1.9 (39) | 1.5 (31) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.6 (75) |
| SW | 0.2 (4) | 0.6 (13) | 1.9 (39) | 1.0 (21) | 0.0 (0) | 0.0 (0) | 3.7 (77) |
| WSW | 0.1 (2) | 0.7 (15) | 0.9 (18) | 1.5 (32) | 1.0 (20) | 1.8 (37) | 5.9 (124) |
| W | 0.1 (2) | 0.6 (12) | 1.0 (21) | 2.1 (45) | 0.9 (18) | 2.9 (62) | 7.6 (160) |
| WNW | 0.1 (3) | 1.0 (20) | 1.8 (37) | 2.2 (46) | 2.7 (56) | 1.7 (35) | 9.4 (197) |
| NW | 0.6 (12) | 1.1 (24) | 2.6 (54) | 2.4 (50) | 1.1 (23) | 0.3 (7) | 8.1 (170) |
| NNW | 0.3 (6) | 0.8 (16) | 1.4 (29) | 1.4 (30) | 0.5 (11) | 0.2 (4) | 4.6 (96) |
| TOTAL | 11.4 (241) | 35.6 (749) | 27.0 (569) | 12.4 (261) | 6.4 (134) | 7.2 (151) | 100.0 (2105) |

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2105

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE LOWER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

% 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 | 0.6 (13) | 1.1 (24) | 0.1 (3) | 0.2 (5) | 0.0 (0) | 0.2 (5) | 2.4 (50) |
| NNE | 0.7 (15) | 2.3 (49) | 0.2 (5) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 3.3 (70) |
| NE | 0.8 (17) | 2.5 (52) | 0.7 (14) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 4.0 (85) |
| ENE | 1.1 (24) | 0.7 (14) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 1.8 (39) |
| E | 1.2 (26) | 1.8 (38) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 3.3 (70) |
| ESE | 2.0 (42) | 5.1 (108) | 1.5 (32) | 0.1 (3) | 0.0 (1) | 0.0 (1) | 8.8 (187) |
| SE | 1.8 (39) | 6.7 (142) | 6.7 (142) | 0.5 (11) | 0.0 (0) | 0.0 (0) | 15.7 (334) |
| SSE | 0.9 (19) | 5.2 (110) | 3.9 (83) | 0.4 (9) | 0.0 (0) | 0.0 (0) | 10.4 (221) |
| S | 0.6 (13) | 3.4 (73) | 2.8 (60) | 0.4 (9) | 0.0 (1) | 0.0 (0) | 7.4 (156) |
| SSW | 0.2 (5) | 1.9 (40) | 1.5 (31) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 3.6 (76) |
| SW | 0.2 (4) | 0.6 (13) | 1.8 (39) | 1.0 (21) | 0.0 (0) | 0.0 (0) | 3.6 (77) |
| WSW | 0.1 (2) | 0.7 (15) | 0.8 (18) | 1.5 (32) | 0.9 (20) | 1.7 (37) | 5.8 (124) |
| W | 0.1 (2) | 0.6 (12) | 1.0 (21) | 2.2 (47) | 0.9 (19) | 2.9 (62) | 7.7 (163) |
| WNW | 0.1 (3) | 1.0 (21) | 1.8 (38) | 2.2 (46) | 2.7 (58) | 1.6 (35) | 9.5 (201) |
| NW | 0.7 (14) | 1.1 (24) | 2.5 (54) | 2.4 (50) | 1.1 (23) | 0.3 (7) | 8.1 (172) |
| NNW | 0.3 (6) | 0.8 (16) | 1.4 (29) | 1.5 (31) | 0.5 (11) | 0.2 (4) | 4.6 (97) |
| TOTAL | 11.5 (244) | 35.4 (751) | 27.0 (573) | 12.4 (264) | 6.5 (137) | 7.2 (153) | 100.0 (2122) |

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

NUMBER OF MISSING WIND OBSERVATIONS: 86

NUMBER OF CALM HOURS: 0

ATTACH. TO JAFP-35-0193

***** 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.

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 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 | 0.0 (0) | 0.1 (2) | 0.2 (4) | 0.1 (2) | 0.0 (1) | 0.0 (1) | 0.5 (10) |
| NNE | 0.0 (0) | 0.1 (2) | 0.3 (7) | 0.3 (7) | 0.0 (1) | 0.0 (1) | 0.9 (18) |
| NE | 0.0 (0) | 0.1 (2) | 0.2 (4) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.4 (8) |
| 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) | 0.1 (2) | 0.1 (2) |
| NW | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (1) | 0.1 (3) | 0.1 (3) | 0.4 (8) |
| NNW | 0.0 (0) | 0.1 (3) | 0.1 (3) | 0.2 (5) | 0.2 (5) | 0.3 (6) | 1.0 (22) |
| TOTAL | 0.0 (0) | 0.4 (9) | 0.9 (19) | 0.8 (17) | 0.6 (12) | 0.7 (15) | 3.4 (72) |

FOR STABILITY CLASS - A

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 72

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 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) | 0.0 (0) | 0.0 (0) |
| NNE | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.1 (2) |
| NE | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 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) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (1) |
| SE | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.1 (2) |
| 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 (1) | 0.0 (1) | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.1 (2) | 0.1 (2) |
| NW | 0.0 (1) | 0.0 (1) | 0.0 (1) | 0.0 (2) | 0.0 (7) | 0.4 (8) | 0.6 (12) |
| NNW | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.3 (9) | 0.2 (4) | 0.8 (16) |
| TOTAL | 0.1 (2) | 0.1 (3) | 0.1 (3) | 0.3 (6) | 0.9 (18) | 1.5 (32) | 3.0 (64) |

FOR STABILITY CLASS - B

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 64

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

STABILITY CLASS - C

% 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) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) |
| NNE | 0.0 (0) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| NE | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (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 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| SE | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| SSE | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| 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) | 0.2 (5) | 0.2 (5) |
| W | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.6 (13) | 0.6 (13) |
| WNW | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.1 (2) | 0.2 (5) | 0.4 (9) |
| NW | 0.0 (0) | 0.1 (2) | 0.2 (5) | 0.3 (6) | 0.2 (4) | 0.5 (10) | 1.3 (27) |
| NNW | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.2 (4) | 0.1 (2) | 0.2 (5) | 0.6 (13) |
| TOTAL | 0.0 (0) | 0.2 (4) | 0.5 (11) | 0.6 (13) | 0.4 (8) | 1.8 (38) | 3.5 (74) |

FOR STABILITY CLASS - C

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 74

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

STABILITY CLASS - D

% 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) | 0.3 (7) | 0.3 (6) | 0.0 (1) | 0.1 (2) | 0.0 (1) | 0.8 (17) |
| NNE | 0.0 (1) | 0.5 (10) | 0.2 (5) | 0.8 (16) | 0.5 (10) | 0.4 (9) | 2.4 (51) |
| NE | 0.0 (0) | 0.3 (7) | 0.4 (8) | 0.5 (11) | 0.3 (6) | 0.0 (0) | 1.5 (32) |
| ENE | 0.0 (1) | 0.2 (4) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.4 (8) |
| E | 0.0 (0) | 0.2 (5) | 0.5 (11) | 0.1 (3) | 0.0 (0) | 0.0 (1) | 1.0 (20) |
| ESE | 0.0 (1) | 0.3 (7) | 1.3 (28) | 0.7 (15) | 0.5 (11) | 0.1 (2) | 3.0 (64) |
| SE | 0.0 (0) | 0.6 (13) | 1.7 (36) | 1.8 (38) | 1.2 (25) | 0.2 (4) | 5.5 (116) |
| SSE | 0.0 (1) | 0.1 (3) | 1.7 (35) | 2.6 (54) | 1.9 (39) | 0.5 (10) | 6.7 (142) |
| S | 0.0 (0) | 0.5 (10) | 0.6 (12) | 1.1 (23) | 0.8 (16) | 0.6 (13) | 3.5 (74) |
| SSW | 0.0 (1) | 0.1 (3) | 1.0 (21) | 0.8 (16) | 0.0 (1) | 0.0 (0) | 2.0 (42) |
| SW | 0.0 (1) | 0.0 (1) | 0.5 (11) | 1.7 (36) | 0.0 (1) | 0.0 (0) | 2.4 (50) |
| WSW | 0.0 (1) | 0.0 (1) | 0.1 (2) | 0.6 (12) | 0.8 (16) | 2.0 (43) | 3.6 (75) |
| W | 0.0 (1) | 0.2 (5) | 0.5 (11) | 1.4 (29) | 1.0 (22) | 3.4 (71) | 6.6 (139) |
| WNW | 0.1 (2) | 0.3 (6) | 1.0 (20) | 1.3 (27) | 1.8 (37) | 2.3 (48) | 6.7 (140) |
| NW | 0.0 (1) | 0.5 (11) | 1.1 (24) | 1.1 (23) | 1.0 (20) | 0.9 (19) | 4.7 (98) |
| NNW | 0.0 (0) | 0.3 (6) | 0.5 (11) | 0.6 (12) | 0.3 (6) | 0.1 (3) | 1.8 (38) |
| TOTAL | 0.5 (11) | 4.7 (99) | 11.5 (243) | 15.0 (316) | 10.1 (212) | 10.7 (225) | 52.5 (1106) |

FOR STABILITY CLASS - D

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 1106

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

ATTACH. TO JAFP-85-0193

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

STABILITY CLASS - E

% 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) | 0.5 (10) | 0.1 (2) | 0.0 (1) | 0.2 (4) | 0.0 (0) | 0.9 (19) |
| NNE | 0.1 (2) | 0.2 (5) | 0.5 (11) | 1.0 (21) | 0.2 (4) | 0.0 (0) | 2.0 (43) |
| NE | 0.0 (1) | 0.2 (5) | 0.0 (1) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.5 (10) |
| ENE | 0.0 (0) | 0.2 (5) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.4 (9) |
| E | 0.0 (1) | 0.1 (3) | 0.3 (7) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.5 (11) |
| ESE | 0.0 (0) | 0.4 (9) | 0.6 (12) | 0.4 (9) | 0.1 (3) | 0.0 (0) | 1.6 (33) |
| SE | 0.0 (1) | 0.3 (6) | 0.8 (17) | 3.3 (69) | 1.2 (25) | 0.1 (3) | 5.7 (121) |
| SSE | 0.1 (2) | 0.5 (11) | 1.1 (24) | 2.3 (49) | 0.7 (14) | 0.1 (2) | 4.8 (102) |
| S | 0.1 (2) | 0.3 (7) | 0.8 (17) | 1.4 (29) | 0.5 (10) | 0.1 (2) | 3.2 (67) |
| SSW | 0.0 (0) | 0.1 (3) | 0.5 (11) | 1.2 (26) | 0.2 (4) | 0.0 (0) | 2.1 (44) |
| SW | 0.0 (1) | 0.2 (4) | 0.4 (9) | 0.4 (9) | 0.5 (11) | 0.3 (7) | 1.9 (41) |
| WSW | 0.0 (1) | 0.2 (4) | 0.2 (5) | 0.1 (2) | 0.3 (6) | 0.5 (11) | 1.4 (29) |
| W | 0.0 (0) | 0.2 (4) | 0.1 (3) | 0.5 (10) | 0.5 (10) | 0.3 (6) | 1.6 (33) |
| WNW | 0.0 (1) | 0.2 (4) | 0.2 (4) | 0.2 (4) | 0.0 (1) | 0.3 (6) | 1.0 (20) |
| NW | 0.0 (0) | 0.3 (7) | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.0 (1) | 0.5 (10) |
| NNW | 0.0 (1) | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| TOTAL | 0.7 (15) | 4.2 (88) | 6.1 (129) | 11.0 (232) | 4.4 (93) | 1.8 (38) | 28.3 (595) |

FOR STABILITY CLASS - E

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 595

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

ATTACH. 70 JAFP-85-0193

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

STABILITY CLASS - F

% 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) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| 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 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.0 (1) |
| ENE | 0.0 (0) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.1 (3) | 0.1 (3) |
| E | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.1 (2) |
| ESE | 0.0 (1) | 0.1 (2) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.3 (6) | 0.3 (6) |
| SE | 0.0 (1) | 0.0 (1) | 0.3 (6) | 0.4 (8) | 0.2 (5) | 1.0 (21) | 1.0 (21) |
| SSE | 0.0 (0) | 0.1 (2) | 0.3 (7) | 0.2 (4) | 0.1 (2) | 0.7 (15) | 0.7 (15) |
| S | 0.0 (0) | 0.1 (2) | 0.1 (3) | 0.0 (1) | 0.0 (0) | 0.3 (6) | 0.3 (6) |
| SSW | 0.0 (0) | 0.0 (1) | 0.1 (3) | 0.3 (6) | 0.0 (1) | 0.5 (11) | 0.5 (11) |
| SW | 0.0 (0) | 0.0 (1) | 0.4 (8) | 0.1 (3) | 0.0 (0) | 0.6 (12) | 0.6 (12) |
| WSW | 0.0 (0) | 0.0 (0) | 0.2 (5) | 0.0 (1) | 0.0 (2) | 0.4 (8) | 0.4 (8) |
| W | 0.0 (1) | 0.0 (1) | 0.0 (1) | 0.0 (1) | 0.1 (2) | 0.3 (6) | 0.3 (6) |
| WNW | 0.0 (0) | 0.1 (2) | 0.0 (0) | 0.0 (1) | 0.0 (1) | 0.2 (4) | 0.2 (4) |
| NW | 0.0 (1) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (2) | 0.1 (2) |
| NNW | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) |
| TOTAL | 0.2 (4) | 0.9 (19) | 1.7 (36) | 1.2 (26) | 0.5 (11) | 0.1 (2) | 4.7 (98) |

FOR STABILITY CLASS - F

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 98

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 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 (1) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| 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) | 0.0 (0) | 0.1 (3) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.1 (3) |
| ESE | 0.0 (1) | 0.1 (3) | 0.2 (5) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.6 (13) |
| SE | 0.0 (0) | 0.0 (0) | 0.4 (9) | 0.2 (4) | 0.1 (2) | 0.0 (0) | 0.7 (15) |
| SSE | 0.0 (0) | 0.1 (3) | 0.2 (4) | 0.2 (4) | 0.0 (1) | 0.0 (0) | 0.6 (12) |
| S | 0.0 (0) | 0.1 (3) | 0.1 (2) | 0.2 (4) | 0.0 (0) | 0.0 (0) | 0.4 (9) |
| SSW | 0.0 (0) | 0.4 (9) | 0.1 (2) | 0.0 (1) | 0.0 (0) | 0.0 (0) | 0.6 (12) |
| SW | 0.0 (0) | 0.1 (3) | 0.0 (1) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.2 (5) |
| WSW | 0.0 (1) | 0.3 (7) | 0.0 (1) | 0.0 (0) | 0.0 (1) | 0.0 (0) | 0.5 (10) |
| W | 0.0 (1) | 0.2 (5) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 0.3 (7) |
| WNW | 0.1 (2) | 0.1 (2) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.2 (4) |
| 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 (1) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (0) | 0.0 (1) |
| TOTAL | 0.3 (6) | 1.9 (40) | 1.3 (27) | 0.8 (17) | 0.2 (5) | 0.0 (1) | 4.6 (96) |

FOR STABILITY CLASS - G

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 96

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 31 1984

JG120*

STABILITY CLASS - ALL

% 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) | 1.0 (20) | 0.6 (12) | 0.2 (4) | 0.3 (7) | 0.1 (2) | 2.2 (47) |
| NNE | 0.1 (3) | 0.9 (19) | 1.2 (25) | 2.1 (44) | 0.7 (15) | 0.5 (11) | 5.6 (117) |
| NE | 0.1 (2) | 0.9 (18) | 0.7 (14) | 0.7 (15) | 0.4 (8) | 0.0 (0) | 2.7 (57) |
| ENE | 0.0 (1) | 0.6 (13) | 0.3 (7) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 1.0 (22) |
| E | 0.0 (1) | 0.5 (10) | 1.0 (21) | 0.1 (3) | 0.0 (0) | 0.0 (1) | 1.7 (36) |
| ESE | 0.1 (3) | 1.0 (21) | 2.3 (48) | 1.4 (29) | 0.7 (15) | 0.1 (2) | 5.6 (118) |
| SE | 0.1 (2) | 1.0 (20) | 3.2 (68) | 5.8 (122) | 2.7 (57) | 0.3 (7) | 13.1 (276) |
| SSE | 0.1 (3) | 0.9 (19) | 3.4 (71) | 5.3 (111) | 2.7 (56) | 0.6 (12) | 12.9 (272) |
| S | 0.1 (2) | 1.0 (22) | 1.6 (34) | 2.7 (57) | 1.2 (26) | 0.7 (15) | 7.4 (156) |
| SSW | 0.0 (1) | 0.8 (16) | 1.8 (37) | 2.3 (49) | 0.3 (6) | 0.0 (0) | 5.2 (109) |
| SW | 0.1 (2) | 0.4 (9) | 1.4 (29) | 2.3 (48) | 0.6 (13) | 0.3 (7) | 5.1 (108) |
| WSW | 0.1 (3) | 0.6 (12) | 0.6 (13) | 0.7 (15) | 1.1 (23) | 2.9 (61) | 6.0 (127) |
| W | 0.1 (3) | 0.7 (15) | 0.7 (15) | 1.9 (40) | 1.6 (34) | 4.5 (95) | 9.6 (202) |
| WNW | 0.3 (6) | 0.7 (15) | 1.2 (25) | 1.7 (35) | 2.0 (43) | 3.3 (69) | 9.2 (193) |
| NW | 0.1 (3) | 1.0 (22) | 1.5 (32) | 1.6 (33) | 1.6 (34) | 1.8 (37) | 7.6 (161) |
| NNW | 0.0 (1) | 0.5 (11) | 0.8 (17) | 1.0 (22) | 1.0 (22) | 1.5 (31) | 4.9 (104) |
| TOTAL | 1.8 (38) | 12.4 (262) | 22.2 (468) | 29.8 (627) | 17.1 (359) | 16.7 (351) | 100.0 (2105) |

FOR STABILITY CLASS - ALL

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2105

NUMBER OF MISSING WIND OBSERVATIONS: 0

NUMBER OF CALM HOURS: 0

ATTACH. TO JAFP-85-0193

NIAGARA MOHAWK

OSWEGO

AMBIENT AIR MONITORING

SITE: NINE MILE UPPER (9)

DATA FOR OCT 1 1984 THROUGH DEC 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 | 0.1 (2) | 1.0 (21) | 0.6 (12) | 0.2 (4) | 0.3 (7) | 0.1 (3) | 2.3 (49) |
| NNE | 0.1 (3) | 0.9 (19) | 1.2 (25) | 2.1 (44) | 0.7 (15) | 0.5 (11) | 5.5 (117) |
| NE | 0.1 (2) | 0.8 (18) | 0.7 (14) | 0.7 (15) | 0.4 (8) | 0.0 (0) | 2.7 (57) |
| ENE | 0.0 (1) | 0.6 (13) | 0.3 (7) | 0.0 (0) | 0.0 (0) | 0.0 (1) | 1.0 (22) |
| E | 0.0 (1) | 0.5 (10) | 1.0 (21) | 0.1 (3) | 0.0 (0) | 0.0 (1) | 1.7 (36) |
| ESE | 0.1 (3) | 1.0 (21) | 2.3 (48) | 1.4 (29) | 0.7 (15) | 0.1 (2) | 5.6 (118) |
| SE | 0.1 (2) | 0.9 (20) | 3.2 (68) | 5.7 (122) | 2.7 (57) | 0.3 (7) | 13.0 (276) |
| SSE | 0.1 (3) | 0.9 (19) | 3.4 (72) | 5.3 (113) | 2.6 (56) | 0.6 (12) | 13.0 (275) |
| S | 0.1 (2) | 1.0 (22) | 1.6 (34) | 2.7 (57) | 1.2 (26) | 0.7 (15) | 7.4 (156) |
| SSW | 0.0 (1) | 0.8 (16) | 1.7 (37) | 2.3 (49) | 0.3 (6) | 0.0 (0) | 5.1 (109) |
| SW | 0.1 (2) | 0.5 (10) | 1.4 (29) | 2.3 (48) | 0.6 (13) | 0.3 (7) | 5.1 (109) |
| WSW | 0.1 (3) | 0.6 (12) | 0.6 (13) | 0.7 (15) | 1.1 (23) | 2.9 (61) | 6.0 (127) |
| W | 0.1 (3) | 0.7 (15) | 0.7 (15) | 2.0 (42) | 1.6 (34) | 4.6 (98) | 9.8 (207) |
| WNW | 0.3 (6) | 0.8 (16) | 1.2 (26) | 1.6 (35) | 2.1 (44) | 3.3 (69) | 9.2 (196) |
| NW | 0.1 (3) | 1.0 (22) | 1.5 (32) | 1.6 (33) | 1.6 (34) | 1.7 (37) | 7.6 (161) |
| NNW | 0.1 (2) | 0.6 (12) | 0.8 (17) | 1.0 (22) | 1.1 (23) | 1.5 (31) | 5.0 (107) |
| TOTAL | 1.8 (39) | 12.5 (266) | 22.1 (470) | 29.7 (631) | 17.0 (361) | 16.7 (355) | 100.0 (2122) |

FOR ALL WIND CATEGORIES

NUMBER OF POSSIBLE HOURLY OBSERVATIONS: 2208

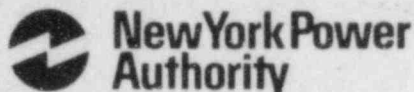
NUMBER OF MISSING WIND OBSERVATIONS: 86

NUMBER OF CALM HOURS: 0

ATTACH. TO JAFP-85-0193

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

Harold A. Glovier
Resident Manager



February 26, 1985
JAFF-85-0193

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 July 1, 1984 through December 31, 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.

A handwritten signature in dark ink, appearing to read 'H. A. Glovier'.

HAROLD A. GLOVIER

HAG:EAM:jaa

Attachments

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