



**NEBRASKA PUBLIC POWER DISTRICT  
COOPER NUCLEAR STATION**

**RADIOACTIVE EFFLUENT RELEASE REPORT**

**January 1, 2000 through December 31, 2000**

USNRC Docket 50-298

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## **INTRODUCTION**

This report summarizes meteorological data and doses from radioactive effluents for the Cooper Nuclear Station for the period January through December, 2000. The data presented is consistent with guidance provided in Regulatory Guide 1.21 of the U.S. Nuclear Regulatory Commission (Revision 1, 1974) for reporting meteorological data and radioactive effluent data.

The report is organized into three parts. Appendix A presents the effluent and waste disposal source term data. Appendix B presents a summary of onsite meteorological data for the report period, including atmospheric diffusion estimates and a description of the atmospheric diffusion model. Appendix C presents the doses from liquid and gaseous radioactive effluents. Descriptions of the dose calculation models are also included.

**APPENDIX A**

**SOURCE TERMS**

**EFFLUENT AND WASTE DISPOSAL REPORTS**

**SUPPLEMENTAL INFORMATION**

# EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT

January 1, 2000, to December 31, 2000

Cooper Nuclear Station effluent and waste disposal data are presented in the format prescribed by Regulatory Guide 1.2I. Meteorological data required by Table 4A&B of Regulatory Guide 1.2I is included in the Meteorological Section of the Annual Radioactive Material Release Report - Radioactive Effluents.

Facility Cooper Nuclear Station License DPR-46.

## A. Regulatory Limits

### 1. Gaseous Waste Effluents

- a. The dose rates due to radioactive materials released in gaseous effluents offsite shall be limited to the following:
  1. Noble Gases: Less than or equal to 500 mrem/yr to the total body and less than or equal to 3000 mrem/yr to the skin.
  2. I-131, I-133, tritium, and all radionuclides in particulate form with half-lives greater than or equal to 8 days: Less than or equal to 1500 mrem/yr to any organ.
- b. The air dose due to noble gases released in gaseous effluents offsite shall be limited to the following:
  1. During any calendar quarter: Less than or equal to 5 mrad from gamma radiation and less than or equal to 10 mrad from beta radiation.
  2. During any calendar year: Less than or equal to 10 mrad from gamma radiation and less than or equal to 20 mrad from beta radiation.
- c. The dose to a member of the public due to I-131, I-133, and radioactive materials in particulate form with half-lives greater than 8 days in gaseous effluents offsite shall be limited to the following:
  1. During any calendar quarter: Less than or equal to 7.5 mrem to any organ.
  2. During any calendar year: Less than or equal to 15 mrem to any organ.

### 2. Liquid Waste Effluents

- a. January 1, 2000, through December 31, 2000

The concentration of radioactive material in water offsite due to radioactive liquid effluents shall not exceed the concentration specified in 10 CFR 20 Part 20.1302 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the

concentration shall not exceed  $2 \times 10^{-4}$  Ci/ml total activity. (CNS Technical Specification Amendment 174 Implementation)

- b. The dose to a member of the public due to radioactive material in liquid effluents offsite shall be limited to the following:
  1. During any calendar quarter: Less than or equal to 1.5 mrem to the total body and less than or equal to 5 mrem to any organ.
  2. During any calendar year: Less than or equal to 3 mrem to the total body and less than or equal to 10 mrem to any organ.

**B. Maximum Permissible Concentrations**

1. Water: Covered in Section A.2.
2. Air: Covered in Section A.1.

**C. Average Energy**

The average energy (E) of the radionuclide mixtures of fission and activation gases released is not applicable. This information is not utilized for dose or release calculations.

**D. Measurements and Approximations of Total Radioactivity**

The methods used to measure or approximate the total radioactivity in effluents and to determine radionuclide composition are as follows:

**1. Gaseous Effluents**

**a. Fission and Activation Gases:**

Radioactivity and radionuclide composition is determined by laboratory HPGe detector analysis in correlation with continuous gross radioactivity monitoring by a beta scintillation detector in the release pathway.

**b. Iodines:**

Charcoal cartridges provide continuous sample collection. These cartridges are analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer.

**c. Particulates:**

Particulate filters provide continuous sample collection. These filters are analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer. An aliquot of a filter composite from each release point was analyzed for Sr-89, Sr-90, and gross alpha by an offsite laboratory.

d. Tritium:

A portable sampling apparatus is utilized to collect a quarterly sample of each radioactive vent effluent. These samples are analyzed using a liquid scintillation counter.

2. Liquid Effluents

a. Principal gamma emitters and dissolved and entrained gases:

Each batch of liquid effluent is analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer. In addition, each batch is monitored for gross gamma radioactivity by a NaI detector in-line with the release pathway.

b. Tritium:

An aliquot of a monthly composite is analyzed using a liquid scintillation counter.

c. Sr-89 and Sr-90:

An aliquot from a quarterly composite is analyzed by an offsite laboratory.

d. Gross alpha:

An aliquot from a monthly composite is analyzed by gas flow proportional counting.

e. Fe-55:

An aliquot from a quarterly composite is analyzed by an offsite laboratory.

E. Batch Releases

a. Liquid

|   |          |               |
|---|----------|---------------|
| 1. Number of batch releases   | 13       |               |
| 2. Total time period for batch releases   | 3483     | minutes       |
| 3. Maximum time period for batch release  | 298      | minutes       |
| 4. Average time period for batch release  | 268      | minutes       |
| 5. Minimum time period for batch release  | 202      | minutes       |
| 6. Average stream flow during periods of release of effluent into a flowing stream: | 5.28E+07 | liters/minute |



**b. Gaseous**

- |  |      |
|--|------|
| 1. Number of batch releases              | None |
| 2. Total time period for batch releases  | N/A  |
| 3. Maximum time period for batch release | N/A  |
| 4. Average time period for batch release | N/A  |
| 5. Minimum time period for batch release | N/A  |

**F. Abnormal Release**

**a. Liquid**

- |                            |      |
|----------------------------|------|
| 1. Number of releases:     | 0    |
| 2. Total activity released | None |

**b. Gaseous**

- |                            |      |
|----------------------------|------|
| 1. Number of releases:     | 0    |
| 2. Total activity released | None |

TABLE 1A  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

|  | UNIT    | 1st QTR  | 2nd QTR  | 3rd QTR  | 4th QTR  | EST. TOTAL<br>ERROR % |
|--|---------|----------|----------|----------|----------|-----------------------|
| A. Fission and activation gases        |         |          |          |          |          |                       |
| 1. Total release                       | Ci      | 5.85E+01 | 8.80E+00 | 4.33E+02 | 1.01E+03 | 2.0E+01               |
| 2. Average release rate for period     | uCi/sec | 7.44E+00 | 1.12E+00 | 5.45E+01 | 1.27E+02 |                       |
| B. Iodines                             |         |          |          |          |          |                       |
| 1. Total iodine 131                    | Ci      | 1.42E-03 | 7.37E-04 | 9.40E-04 | 3.71E-03 | 3.0E+01               |
| 2. Average release rate for period     | uCi/sec | 1.81E-04 | 9.37E-05 | 1.18E-04 | 4.67E-04 |                       |
| C. Particulates                        |         |          |          |          |          |                       |
| 1. Particulates with half-lives >8days | Ci      | 3.59E-06 | 5.03E-05 | 6.60E-07 | 5.24E-03 | 5.0E+01               |
| 2. Average release rate for period     | uCi/sec | 4.57E-07 | 6.40E-06 | 8.30E-08 | 6.59E-04 |                       |
| 3. Gross alpha radioactivity           | Ci      | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |                       |
| D. Tritium                             |         |          |          |          |          |                       |
| 1. Total release                       | Ci      | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.0E+01               |
| 2. Average release rate for period     | uCi/sec | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |                       |

TABLE 1B  
 EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT  
 GASEOUS EFFLUENT-ELEVATED RELEASE  
 CONTINUOUS MODE    \*BATCH

| NUCLIDES RELEASED | UNIT | 1st QTR  | 2nd QTR  | 3rd QTR  | 4th QTR  |
|-------------------|------|----------|----------|----------|----------|
| 1. Fission gases  |      |          |          |          |          |
| krypton-83m       | Ci   | 4.90E-01 | 7.40E-02 | 3.60E+00 | 8.20E+00 |
| krypton-85m       | Ci   | 8.80E-01 | 1.30E-01 | 6.60E+00 | 1.50E+01 |
| krypton-85        | Ci   | 2.70E+00 | 4.10E-01 | 2.00E+01 | 4.60E+01 |
| krypton-87        | Ci   | 2.90E+00 | 4.40E-01 | 2.20E+01 | 4.90E+01 |
| krypton-88        | Ci   | 2.90E+00 | 4.40E-01 | 2.20E+01 | 4.90E+01 |
| krypton-89        | Ci   | 1.40E+01 | 2.00E+00 | 1.00E+02 | 2.30E+02 |
| xenon-133m        | Ci   | 4.10E-02 | 6.10E-03 | 3.00E-01 | 6.90E-01 |
| xenon-133         | Ci   | 2.00E+00 | 3.10E-01 | 1.50E+01 | 3.50E+01 |
| xenon-135m        | Ci   | 9.80E-01 | 1.50E-01 | 7.30E+00 | 1.70E+01 |
| xenon-135         | Ci   | 3.60E+00 | 5.40E-01 | 2.70E+01 | 6.10E+01 |
| xenon-137         | Ci   | 1.60E+01 | 2.50E+00 | 1.20E+02 | 2.70E+02 |
| xenon-138         | Ci   | 1.20E+01 | 1.80E+00 | 8.90E+01 | 2.00E+02 |
| Total for period  | Ci   | 5.85E+01 | 8.80E+00 | 4.33E+02 | 9.81E+02 |
| 2. Iodines        |      |          |          |          |          |
| iodine-131        | Ci   | 9.18E-04 | 7.36E-04 | 9.39E-04 | 3.65E-03 |
| iodine-132        | Ci   | 0.00E+00 | 6.21E-04 | 5.95E-03 | 1.35E-03 |
| iodine-133        | Ci   | 1.49E-03 | 1.79E-03 | 6.77E-03 | 5.57E-03 |
| iodine-134        | Ci   | 7.07E-04 | 2.92E-03 | 1.44E-04 | 5.82E-04 |
| iodine-135        | Ci   | 7.88E-04 | 3.00E-03 | 9.76E-03 | 4.06E-03 |
| Total for period  | Ci   | 3.90E-03 | 9.07E-03 | 2.36E-02 | 1.52E-02 |

\* No batch discharges were made

TABLE 1B  
 EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT  
 GASEOUS EFFLUENT-ELEVATED RELEASE (continued)  
 CONTINUOUS MODE      \*BATCH

|    | NUCLIDES RELEASED | UNIT | 1st QTR  | 2nd QTR  | 3rd QTR  | 4th QTR  |
|----|-------------------|------|----------|----------|----------|----------|
| 3. | Particulates      |      |          |          |          |          |
|    | rubidium-88       | Ci   | 0.00E+00 | 0.00E+00 | 3.15E-04 | 0.00E+00 |
|    | rubidium-89       | Ci   | 4.05E-02 | 1.61E-02 | 1.78E-02 | 6.88E-02 |
|    | strontium-89      | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-04 |
|    | strontium-91      | Ci   | 4.05E-04 | 5.14E-04 | 2.94E-04 | 1.79E-03 |
|    | yttrium-91m       | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | ruthenium-106     | Ci   | 0.00E+00 | 1.04E-05 | 0.00E+00 | 0.00E+00 |
|    | cesium-137        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | cesium-138        | Ci   | 2.82E-02 | 1.37E-02 | 4.61E-01 | 8.35E-01 |
|    | barium-139        | Ci   | 3.11E-02 | 9.66E-01 | 2.97E-02 | 2.23E-01 |
|    | barium-140        | Ci   | 3.59E-06 | 3.99E-05 | 6.60E-07 | 2.09E-03 |
|    | lanthanum-140     | Ci   | 0.00E+00 | 2.03E-05 | 0.00E+00 | 8.66E-05 |
|    | Total for period  | Ci   | 1.00E-01 | 9.96E-01 | 5.09E-01 | 1.13E+00 |

\* No batch discharges were made

TABLE 1C  
 EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT  
 GASEOUS EFFLUENT-BUILDING VENT RELEASES  
 CONTINUOUS MODE    \*BATCH

|    | NUCLIDES RELEASED | UNIT | 1st QTR  | 2nd QTR  | 3rd QTR  | 4th QTR  |
|----|-------------------|------|----------|----------|----------|----------|
| 1. | Fission gases     |      |          |          |          |          |
|    | krypton-83m       | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | krypton-85m       | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.50E-01 |
|    | krypton-85        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | krypton-87        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.60E-01 |
|    | krypton-88        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E+00 |
|    | krypton-89        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | xenon-133m        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | xenon-133         | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E+01 |
|    | xenon-135m        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.50E+00 |
|    | xenon-135         | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.30E+00 |
|    | xenon-137         | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | xenon-138         | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.00E+00 |
|    | Total for period  | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E+01 |
| 2. | Iodines           |      |          |          |          |          |
|    | iodine-131        | Ci   | 5.01E-04 | 6.71E-07 | 6.79E-07 | 6.28E-05 |
|    | iodine-132        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | iodine-133        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | iodine-134        | Ci   | 1.50E-03 | 1.18E-05 | 1.19E-05 | 1.19E-05 |
|    | iodine-135        | Ci   | 6.54E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | Total for period  | Ci   | 2.66E-03 | 1.25E-05 | 1.26E-05 | 7.47E-05 |
| 3. | Particulates      |      |          |          |          |          |
|    | rubidium-89       | Ci   | 0.00E+00 | 5.90E-02 | 3.48E-03 | 1.85E-01 |
|    | strontium-89      | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.02E-03 |
|    | strontium-91      | Ci   | 0.00E+00 | 0.00E+00 | 9.98E-04 | 0.00E+00 |
|    | yttrium-91m       | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | cesium-137        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | cesium-138        | Ci   | 7.46E-02 | 6.97E-02 | 2.74E-01 | 2.38E-01 |
|    | barium-139        | Ci   | 4.69E-02 | 3.23E-02 | 1.56E-01 | 1.16E-01 |
|    | barium-140        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | lanthanum-140     | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | cerium-144        | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | praseodymium-144  | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
|    | Total for period  | Ci   | 1.22E-01 | 1.61E-01 | 4.34E-01 | 5.42E-01 |

\* No batch discharges were made

TABLE 2A  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

|   | UNIT   | 1st QTR  | 2nd QTR  | 3rd QTR  | 4th QTR  | EST. TOTAL<br>ERROR % |
|---|--------|----------|----------|----------|----------|-----------------------|
| A. Fission and activation products                                |        |          |          |          |          |                       |
| 1. Total release<br>(not including<br>tritium, gases or<br>alpha) | Ci     | 2.44E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.0E+01               |
| 2. Average diluted<br>concentration<br>during period              | uCi/ml | 5.64E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |                       |
| B. Tritium  |        |          |          |          |          |                       |
| 1. Total release  | Ci     | 1.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.0E+01               |
| 2. Average diluted<br>concentration<br>during period              | uCi/ml | 2.33E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 |                       |
| C. Dissolved and entrained gases                                  |        |          |          |          |          |                       |
| 1. Total release  | Ci     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.0E+01               |
| 2. Average diluted<br>concentration<br>during period              | uCi/ml | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |                       |
| D. Gross alpha radioactivity                                      |        |          |          |          |          |                       |
| 1. Total release  | Ci     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.0E+01               |
| E. Volume of waste<br>released (prior to<br>dilution)             |        |          |          |          |          |                       |
|   | liters | 7.82E+05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.0E+01               |
| F. Volume of dilution<br>water used during<br>period              |        |          |          |          |          |                       |
|   | liters | 4.33E+09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.0E+01               |

TABLE 2B  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT  
 LIQUID EFFLUENTS  
 CONTINUOUS MODE\*    BATCH MODE

| NUCLIDES RELEASED | UNIT | 1st QTR  | 2nd QTR  | 3rd QTR  | 4th QTR  |
|-------------------|------|----------|----------|----------|----------|
| sodium-24         | Ci   | 5.08E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| manganese-54      | Ci   | 4.24E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cobalt-58         | Ci   | 6.64E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cobalt-60         | Ci   | 1.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| zinc-65           | Ci   | 6.79E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| strontium-89      | Ci   | 1.48E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| strontium-90      | Ci   | 2.66E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| technetium-99m    | Ci   | 2.30E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| iodine-131        | Ci   | 3.17E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| iodine-133        | Ci   | 4.85E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| cesium-137        | Ci   | 6.56E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| <br>              |      |          |          |          |          |
| Total for period  | Ci   | 2.44E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| <br>              |      |          |          |          |          |
| xenon-133         | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| xenon-135         | Ci   | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

\* No continuous mode discharges were made

TABLE 3

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
PERIOD January 1, 2000 TO December 31, 2000

## A. Solid Waste Shipped Offsite for Burial or Disposal (Not Irradiated Fuel)

## 1. Type of Waste

|  | Unit | 12 Month<br>Period | Est. Total Error % |
|--|------|--------------------|--------------------|
| a. Spent resins, filter sludges,<br>evaporator bottoms, etc. | m3   | 3.36E+01           | N/A                |
|  | Ci   | 2.29E+02           | 15%                |
| b. Dry compressible waste,<br>contaminated equip, etc.       | m3   | 1.05E+01           | N/A                |
|  | Ci   | 5.00E+00           | 25%                |
| c. Irradiated components,<br>control rods, etc.              | m3   | 0.00E+00           | N/A                |
|  | Ci   | 0.00E+00           |                    |
| d. Other   | m3   | 0.00E+00           | N/A                |
|  | Ci   | 0.00E+00           |                    |

## 2. Estimate of Major Nuclide Composition (By Type of Waste), Percent %

|                  |          |                   |          |
|------------------|----------|-------------------|----------|
| a. americium-241 | 9.10E-05 | iron-59           | 3.91E-02 |
| antimony-124     | 1.20E-03 | lanthanum-140     | 2.67E-02 |
| barium-140       | 3.20E-02 | maganese-54       | 1.06E+01 |
| cadmium-115      | 1.39E-03 | nickel-59         | 1.12E-02 |
| carbon-14        | 5.47E-01 | nickel-63         | 1.12E+00 |
| cerium-141       | 7.56E-03 | niobium-95        | 5.04E-03 |
| cesuim-134       | 5.35E-02 | plutonium-238     | 2.60E-04 |
| cesium-137       | 4.25E-01 | plutonium-239/240 | 1.77E-04 |
| chromium-51      | 1.93E-01 | plutonium-241     | 8.48E-03 |
| cobalt-57        | 7.38E-06 | silver-110m       | 8.22E-01 |
| cobalt-58        | 5.23E-01 | strontium-89      | 2.63E+00 |
| cobalt-60        | 6.01E+01 | strontium-90      | 1.30E-01 |
| curium-242       | 7.07E-05 | technetium-99     | 2.05E-03 |
| curium-243/244   | 1.47E-04 | tritium           | 9.21E-03 |
| iodine-129       | 1.07E-02 | xenon-131m        | 6.32E-02 |
| iodine-131       | 3.52E-02 | xenon-133         | 9.65E-04 |
| iodine-133       | 1.75E-06 | zinc-65           | 7.47E-01 |
| iron-55          | 2.19E+01 |                   |          |



TABLE 3

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS (continued)  
 PERIOD January 1, 2000 TO December 31, 2000

|    |               |          |               |          |
|----|---------------|----------|---------------|----------|
| b. |               |          |               |          |
|    | americium-241 | 5.56E-04 | manganese-54  | 3.97E-01 |
|    | cadmium-109   | 9.60E-05 | nickel-59     | 8.71E-02 |
|    | carbon-14     | 1.11E-02 | nickel-63     | 1.13E+01 |
|    | cerium-141    | 2.08E-04 | niobium-94    | 2.60E-05 |
|    | cerium-144    | 4.66E-04 | niobium-95    | 1.28E-02 |
|    | cesium-137    | 8.46E-01 | plutonium-241 | 1.44E-04 |
|    | chromium-51   | 1.34E-01 | silver-110m   | 8.40E-04 |
|    | cobalt-58     | 2.12E-02 | strontium-89  | 1.48E-03 |
|    | cobalt-60     | 4.54E+01 | strontium-90  | 1.01E-03 |
|    | iodine-129    | 3.64E-04 | technetium-99 | 8.80E-05 |
|    | iodine-131    | 1.03E-03 | tritium       | 3.41E-03 |
|    | iron-55       | 4.13E+01 | zinc-65       | 3.55E-01 |
|    | iron-59       | 3.06E-02 | zirconium-95  | 1.26E-02 |

3. Solid Waste Disposition

| <u>Number of Shipments</u> | <u>Mode of Transportation</u> | <u>Destination</u> |
|----------------------------|-------------------------------|--------------------|
| 21                         | Exclusive Use Vehicle         | Barnwell, SC       |

4. Solidification Agent

No shipments required solidification during this period.

B. Irradiated Fuel Shipments (Disposition)

| <u>Number of Shipments</u> | <u>Mode of Transportation</u> | <u>Destination</u> |
|----------------------------|-------------------------------|--------------------|
| 0                          | N/A                           | N/A                |

**GASEOUS RADIOACTIVE WASTES  
CUMULATIVE DOSE DATA**

|    |  |      |                   |                    |                 |         |         |
|----|--|------|-------------------|--------------------|-----------------|---------|---------|
| A. | Maximum gamma air dose   |      | 1st Qtr           | 2nd Qtr            | 3rd Qtr         | 4th Qtr | Annual  |
|    |  |      | _____             | _____              | _____           | _____   | _____   |
|    | Site boundary  |      | (0.69 miles NNW ) | (0.67 miles North) | (0.67 mi North) |         |         |
|    | 1. Total   | mrad | 1.20E-4           | 2.66E-4            | 6.43E-3         | 3.34E-2 | 4.28E-2 |
|    | 2. Percent of Technical  |      |                   |                    |                 |         |         |
|    | Specification Limit %  |      | 0.00              | 0.01               | 0.13            | 0.67    | 0.43    |
|    | Most Exposed Resident  |      | (0.90 mi.NW       | ) (0.90 mi NW      | ) (0.90 mi NW)  |         |         |
|    | 1. Total   | mrad | 9.42E-4           | 2.36E-4            | 1.12E-2         | 3.01E-2 | 4.27E-2 |
|    | 2. Percent of Technical  |      |                   |                    |                 |         |         |
|    | Specification Limit %  |      | 0.02              | 0.00               | 0.22            | 0.60    | 0.43    |
| B. | Maximum beta air dose  |      |                   |                    |                 |         |         |
|    | Site boundary  |      | (0.69 miles NNW)  | (0.67 miles North) | (0.67 mi North) |         |         |
|    | 1. Total   | mrad | 1.10E-4           | 2.82E-4            | 6.13E-3         | 2.55E-2 | 3.66E-2 |
|    | 2. Percent of Technical  |      |                   |                    |                 |         |         |
|    | Specification Limit %  |      | 0.00              | 0.00               | 0.06            | 0.26    | 0.18    |
|    | Most Exposed Resident  |      | (0.90 miles NW )  | ( 0.90 miles NW )  | (0.90 mi NW)    |         |         |
|    | 1. Total   | mrad | 8.97E-4           | 2.37E-4            | 1.05E-2         | 2.73E-2 | 4.05E-2 |
|    | 2. Percent of Technical  |      |                   |                    |                 |         |         |
|    | Specification Limit %  |      | 0.01              | 0.00               | 0.11            | 0.27    | 0.20    |
| C. | Maximum organ dose due to<br>I-131, I-133, and particulates<br>(>8 day half lives)   |      |                   |                    |                 |         |         |
|    | Site boundary  |      | (0.69 miles NNW ) | (0.67 miles North) | (0.67 mi North) |         |         |
|    | 1. Total   | mrem | 2.01E-1           | 6.57E-2            | 7.34E-2         | 1.78E-1 | 7.46E-1 |
|    | 2. Percent of Technical  |      |                   |                    |                 |         |         |
|    | Specification Limit %  |      | 2.68              | 0.88               | 0.98            | 2.37    | 4.97    |
|    | 3. Organ   |      | Thyroid           | Thyroid            | Thyroid         | Bone    | Thyroid |
|    | 4. Exposed Individual  |      | Infant            | Infant             | Infant          | Child   | Infant  |
|    | Most Exposed Resident  |      | (0.90 miles NW )  | (0.90 miles NW )   | (0.90 mi NW)    |         |         |
|    | 1. Total   | mrem | 9.52E-2           | 3.43E-2            | 6.04E-2         | 1.80E-1 | 4.00E-1 |
|    | 2. Percent of Technical  |      |                   |                    |                 |         |         |
|    | Specification Limit %  |      | 1.27              | 0.46               | 0.81            | 2.40    | 2.67    |
|    | 3. Organ   |      | Thyroid           | Thyroid            | Thyroid         | Thyroid | Thyroid |
|    | 4. Exposed Individual  |      | Infant            | Infant             | Infant          | Infant  | Infant  |
| D. | Maximum organ dose rate due to I-131, I-133, tritium, and particulates<br>(>8 day half-lives) was 7.46 E-01 mrem/year which was 4.97% of the<br>Technical Specification Limit.   |      |                   |                    |                 |         |         |
| E. | All radioactive noble gas effluent monitors were set to automatically<br>alarm when the monitor alarm setpoint, determined as specified in the<br>Offsite Dose Assessment Manual (ODAM), was exceeded. This is required to<br>ensure that the 500 mrem/yr to the total body and the 3000 mrem/yr to the<br>skin limits are not exceeded. |      |                   |                    |                 |         |         |

**LIQUID RADIOACTIVE WASTES  
CUMULATIVE DOSE DATA**

| A. Maximum whole body dose                     |   | <u>1st Qtr</u> | <u>2nd Qtr</u> | <u>3rd Qtr</u> | <u>4th Qtr</u> | <u>Annual</u> |
|--|---|----------------|----------------|----------------|----------------|---------------|
| 1. Total                                       | mrem  | 1.28E-3        | 0.00E+0        | 0.00E+0        | 0.00E+0        | 1.28E-3       |
| 2. Percent of Technical<br>Specification Limit | %   | 0.09           | 0.00           | 0.00           | 0.00           | 0.04          |
|  |   |                |                |                |                |               |
| B. Maximum organ dose                          |   |                |                |                |                |               |
| 1. Total                                       | mrem  | 3.71E-3        | 0.00E+0        | 0.00E+0        | 0.00E+0        | 3.71E-3       |
| 2. Percent of Technical<br>Specification Limit | %   | 0.07           | 0.00           | 0.00           | 0.00           | 0.04          |
|  |   |                |                |                |                |               |
| C.   | All radioactive liquid effluents were diluted, at time of discharge to concentrations below the concentrations specified in 10 CFR Part 20.1302 for radionuclides other than dissolved or entrained noble gases. For dissolved and entrained noble gases the concentrations were diluted below $2 \times 10^{-4}$ $\mu\text{Ci/ml}$ total activity. |                |                |                |                |               |

## SUPPLEMENTAL INFORMATION

### A. Unplanned Releases:

None.

### B. District Initiated Changes to the Process Control Program

The information below provides a summary of specific changes made to the Process Control Program (PCP) during the reporting period of January 1 - December 31, 2000. These changes were editorial and administrative in nature, and did not reduce the overall conformance of the solidified waste product to existing criteria for solid waste. These changes have been reviewed and found acceptable by the Station Operating Review Committee:

- Corrected the title of "Annual Radioactive Effluent Release Report" to read "Radioactive Effluent Release Report," to be consistent with Technical Specification Section (TS) 5.6.3 throughout the PCP.
- Correction of typographical errors.
- Revised references from "Technical Specifications" to the "Offsite Dose Assessment Manual," pursuant to Amendment No. 178 to the CNS Operating License, which implemented Improved TS and relocated several requirements from the CNS TS to the Offsite Dose Assessment Manual (ODAM).
- Addition of a new Section H to the PCP which identifies the requirements for "District Initiated Changes" to the PCP as described in the Updated Safety Analysis Report (USAR).

### C. Changes to the Offsite Dose Assessment Manual

In accordance with Technical Specifications (TS) 5.5.1.c.3, a complete, legible copy of the entire ODA M is being submitted along with the 2000 Radioactive Effluent Release Report. The specific changes are identified with revision bars in the right-hand margin of the affected pages; pages revised during 2000 are identified as such by date in the lower right-hand corner of the affected pages.

### D. Reports Required by Offsite Dose Assessment Manual

#### D.1 Service Water Radiation Effluent Monitor Out of Service

The following information is being reported per the requirements of ODA M Specification D 3.3.1, Condition B, Required Action B.2.2. This information describes a continuation of a condition that was previously reported in the 1999 Annual Radioactive Effluent

Release Report<sup>1./</sup> and is being reported below due to the condition continuing for a period of greater than 31 days during the January 1 - December 31, 2000 reporting period.

The Service Water (SW) Radiation Effluent Monitor had been declared inoperable for the majority of the reporting period (January 1, 2000 to December 31, 2000). This was due to the low SW flow condition to the SW Radiation Effluent Monitor caused by system design inadequacies. Therefore, ODAM Specification D 3.3.1, Required Action D.1 has been implemented requiring daily grab samples of the SW effluent to be taken. These daily grab samples provide continued confirmation that no radioactive releases have occurred. Actions to address the design inadequacies with the SW Radiation Effluent Monitor are being addressed in the Corrective Action Program.

#### D.2 Augmented Off Gas System (AOG) Hydrogen (H<sub>2</sub>) Analyzers Out of Service

The following information is being reported per the requirements of ODAM Specification D 3.3.2, Condition B, Required Action B.2.2. This information has been previously reported in the 1999 Annual Radioactive Effluent Release Report<sup>1./</sup> and is being reported below due to the condition continuing for a period of greater than 31 days during the January 1 - December 31, 2000 reporting period.

On October 18, 1999, an unexpected Group 2 isolation caused the Augmented Off Gas (AOG) system to trip off-line. This caused one of the two cyclic dryer heaters for the AOG train A to fail. Because of this only half the heating capacity to regenerate the AOG desiccant beds was available upon startup of the AOG system. This resulted in the dewpoint only achieving approximately -30° F. Per procedure, the Hydrogen (H<sub>2</sub>) Analyzers require a dewpoint of -50° F before being calibrated and placed in service, therefore the analyzers have not been in service for the balance of 1999, and for the first two months of 2000.

In the interim, compensatory measures delineated in DLCO 3.3.2 were taken due to the unavailability of the H<sub>2</sub> analyzers. In accordance with the ODAM requirements, these measures consisted of obtaining and analyzing Off Gas grab samples for hydrogen concentration and monitoring recombiner temperatures. The new cyclic dryer heaters were installed in April 2000 during Refueling Outage 19.

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1./ Letter (No. NLS 2000037) to USNRC Document Control Desk from John H. Swailes (NPPD) dated May 1, 2000, "Annual Radioactive Effluent Release Report"

**APPENDIX B**

**METEOROLOGY**

## CONTENTS

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## METEOROLOGICAL DATA SUMMARIES

Meteorological data collected onsite for the period January 1, 2000, through December 31, 2000, were reduced, validated, summarized for analysis, and included in appropriate dose calculations. Hourly data summaries are provided for all pertinent parameters and for the joint frequency distributions (JFD's) of wind speed and wind direction by atmospheric stability class.

### DATA RECOVERY

Data recovery statistics are provided in Table 1 for all pertinent meteorological parameters.

|  |        | <u>Lowest<br/>Data Recovery</u> | <u>Average<br/>Data Recovery</u> |
|--|--------|---------------------------------|----------------------------------|
| January 1 - March 31, 2000                               | (Q1)   | 81.5%                           | 94.9%                            |
| April 1 - June 30, 2000                                  | (Q2)   | 78.8%                           | 97.0%                            |
| First Semiannual Period -<br>January 1 - June 30, 2000   | (SEM1) | 88.0%                           | 96.0%                            |
| July 1 - September 30, 2000                              | (Q3)   | 52.9%                           | 90.7%                            |
| October 1 - December 31, 2000                            | (Q4)   | 20.2%                           | 92.8%                            |
| Second Semiannual Period -<br>July 1 - December 31, 2000 | (SEM2) | 44.2%                           | 91.8%                            |
| Annual Period -<br>January 1 - December 31, 2000         | (ANN)  | 71.8%                           | 93.9%                            |

10 meter back-up temperature data was used, when necessary, to replace invalid 10 meter temperature data.



## WIND AT 100-METER LEVEL AND 10-METER LEVEL

|      | <u>Predominant Wind Direction at 100m Level</u> |            | <u>Predominant Wind Direction at 10m Level</u> |            |
|------|---|------------|--|------------|
|      | Direction                                       | Percentage | Direction                                      | Percentage |
| Q1   | NorthNorthwest                                  | 11.5%      | South  | 12.5%      |
| Q2   | South   | 17.9%      | South  | 17.9%      |
| SEM1 | South   | 14.4%      | South  | 15.2%      |
| Q3   | South   | 13.7%      | South  | 13.5%      |
| Q4   | Northwest                                       | 13.3%      | Northwest                                      | 13.0%      |
| SEM2 | South   | 12.5%      | South  | 12.6%      |
| ANN  | South   | 13.5%      | South  | 14.0%      |

|      | <u>Mean Wind Speed at 100m Level</u> |      | <u>Mean Wind Speed at 10m Level</u> |      |
|------|--------------------------------------|------|-------------------------------------|------|
|      | Speed                                | Unit | Speed                               | Unit |
| Q1   | 14.4                                 | MPH  | 8.4                                 | MPH  |
| Q2   | 14.9                                 | MPH  | 9.1                                 | MPH  |
| SEM1 | 14.6                                 | MPH  | 8.8                                 | MPH  |
| Q3   | 12.5                                 | MPH  | 6.7                                 | MPH  |
| Q4   | 14.3                                 | MPH  | 8.6                                 | MPH  |
| SEM2 | 13.4                                 | MPH  | 7.7                                 | MPH  |
| ANN  | 14.0                                 | MPH  | 8.2                                 | MPH  |

|      | <u>Maximum Hourly Average Wind Speed/(Date at 100m Level)</u> |            | <u>Maximum Hourly Average Wind Speed/(Date at 10m Level)</u> |            |
|------|---|------------|--|------------|
|      | Speed   | Date       | Speed  | Date       |
| Q1   | 40.5 MPH  | (00/03/08) | 32.8 MPH   | (00/01/19) |
| Q2   | 47.7 MPH  | (00/04/07) | 37.9 MPH   | (00/04/07) |
| SEM1 | 47.7 MPH  | (00/04/07) | 37.9 MPH   | (00/04/07) |
| Q3   | 29.2 MPH  | (00/09/18) | 20.8 MPH   | (00/09/18) |
| Q4   | 35.3 MPH  | (00/12/18) | 30.7 MPH   | (00/12/18) |
| SEM2 | 35.3 MPH  | (00/12/18) | 30.7 MPH   | (00/12/18) |
| ANN  | 47.7 MPH  | (00/04/07) | 37.9 MPH   | (00/04/07) |

## TEMPERATURE AT 10-METER LEVEL

|      | <u>Mean Hourly<br/>Average Temperature</u> | <u>Average Daily<br/>Maximum</u> | <u>Average Daily<br/>Minimum</u> |
|------|--|----------------------------------|----------------------------------|
| Q1   | 4.1 Degrees Celsius                        | 9.1 Degrees Celsius              | -1.1 Degrees Celsius             |
| Q2   | 18.2 Degrees Celsius                       | 23.9 Degrees Celsius             | 12.6 Degrees Celsius             |
| SEM1 | 11.1 Degrees Celsius                       | 16.5 Degrees Celsius             | 5.8 Degrees Celsius              |
| Q3   | 23.9 Degrees Celsius                       | 29.5 Degrees Celsius             | 18.9 Degrees Celsius             |
| Q4   | 2.5 Degrees Celsius                        | 7.5 Degrees Celsius              | -1.9 Degrees Celsius             |
| SEM2 | 13.2 Degrees Celsius                       | 18.5 Degrees Celsius             | 8.5 Degrees Celsius              |
| ANN  | 12.2 Degrees Celsius                       | 17.5 Degrees Celsius             | 7.2 Degrees Celsius              |

|      | <u>Maximum Temperature<br/>(Date)</u> | <u>Minimum Temperature<br/>(Date)</u> |
|------|---------------------------------------|---------------------------------------|
| Q1   | 23.9 Degrees Celsius<br>(00/03/07)    | -13.8 Degrees Celsius<br>(00/01/26)   |
| Q2   | 36.6 Degrees Celsius<br>(00/05/11)    | -1.8 Degrees Celsius<br>(00/04/08)    |
| SEM1 | 36.6 Degrees Celsius<br>(00/05/11)    | -13.8 Degrees Celsius<br>(00/01/26)   |
| Q3   | 39.9 Degrees Celsius<br>(00/08/28)    | 5.9 Degrees Celsius<br>(00/09/26)     |
| Q4   | 31.1 Degrees Celsius<br>(00/10/01)    | -21.7 Degrees Celsius<br>(00/12/22)   |
| SEM2 | 39.9 Degrees Celsius<br>(00/08/28)    | -21.7 Degrees Celsius<br>(00/12/22)   |
| ANN  | 39.9 Degrees Celsius<br>(00/08/28)    | -21.7 Degrees Celsius<br>(00/12/22)   |

## PRECIPITATION

|      | <u>Total<br/>Precipitation</u> | <u>Maximum Daily<br/>Precipitation<br/>Total/(Date)</u> | <u>Maximum Hourly<br/>Precipitation<br/>Total/(Date)</u> |
|------|--------------------------------|---|--|
| Q1   | 2.83 Inches                    | 0.90 Inches<br>(00/03/12)                               | 0.90 Inches<br>(00/03/12)                                |
| Q2   | 2.26 Inches                    | 0.52 Inches<br>(00/04/16)                               | 0.26 Inches<br>(00/04/27)                                |
| SEM1 | 5.09 Inches                    | 0.90 Inches<br>(00/03/12)                               | 0.90 Inches<br>(00/03/12)                                |
| Q3   | 5.20 Inches                    | 1.90 Inches<br>(00/08/19)                               | 0.80 Inches<br>(00/08/22)                                |
| Q4   | 3.60 Inches                    | 0.90 Inches<br>(00/11/06)                               | 0.40 Inches<br>(00/10/13)                                |
| SEM2 | 8.80 Inches                    | 1.90 Inches<br>(00/08/19)                               | 0.80 Inches<br>(00/08/22)                                |
| ANN  | 13.89 Inches                   | 1.90 Inches<br>(00/08/19)                               | 0.90 Inches<br>(00/03/12)                                |

## ATMOSPHERIC STABILITY

Atmospheric stability is determined through classification of differential temperature data based on JFD of the 100-meter wind and the delta T (100m - 10m) stability data.

|      | <u>Unstable Conditions<br/>Classes A-C</u> | <u>Neutral Conditions<br/>Class D</u> | <u>Stable Conditions<br/>Classes E-G</u> |
|------|--|---------------------------------------|--|
| Q1   | 4%   | 53%                                   | 43%                                      |
| Q2   | 12%  | 49%                                   | 39%                                      |
| SEM1 | 8%   | 51%                                   | 41%                                      |
| Q3   | 8%   | 42%                                   | 50%                                      |
| Q4   | 1%   | 59%                                   | 40%                                      |
| SEM2 | 5%   | 51%                                   | 44%                                      |
| ANN  | 6%   | 51%                                   | 43%                                      |

**TABLE 1. Meteorological Data Recovery**

Data Recovery (% of total Observations)

|                          | January-<br>March<br><u>2000</u> | April-<br>June<br><u>2000</u> | January-<br>June<br><u>2000</u> | July-<br>Sept.<br><u>2000</u> | October-<br>Dec.<br><u>2000</u> | July-<br>Dec.<br><u>2000</u> | January-<br>Dec.<br><u>2000</u> |
|--------------------------|----------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|------------------------------|---------------------------------|
| 100m wind speed          | 99.5                             | 99.9                          | 99.7                            | 92.3                          | 97.7                            | 95.0                         | 97.3                            |
| 100m wind direction      | 99.5                             | 99.9                          | 99.7                            | 92.3                          | 97.7                            | 95.0                         | 97.3                            |
| 100m ambient temperature | 99.3                             | 99.9                          | 99.6                            | 99.8                          | 97.7                            | 98.8                         | 99.2                            |
| 60m wind speed           | 99.5                             | 99.9                          | 99.7                            | 92.3                          | 97.7                            | 95.0                         | 97.3                            |
| 60m wind direction       | 99.5                             | 99.9                          | 99.7                            | 68.1                          | 20.2                            | 44.2                         | 71.8                            |
| 60m ambient temperature  | 84.8                             | 96.9                          | 90.9                            | 99.4                          | 97.1                            | 98.2                         | 94.6                            |
| 10m wind speed           | 97.4                             | 99.9                          | 98.7                            | 92.3                          | 97.7                            | 95.0                         | 96.8                            |
| 10m wind direction       | 97.4                             | 99.9                          | 98.7                            | 92.3                          | 97.7                            | 95.0                         | 96.8                            |
| 10m ambient temperature  | 98.1                             | 97.0                          | 97.6                            | 97.5                          | 97.7                            | 97.6                         | 97.6                            |
| 10m dew point            | 98.6                             | 78.8                          | 88.7                            | 52.9                          | 97.6                            | 75.3                         | 82.0                            |
| 100m-10m delta T         | 97.9                             | 97.0                          | 97.5                            | 97.3                          | 97.7                            | 97.5                         | 97.5                            |
| 100m-60m delta T         | 84.5                             | 96.9                          | 90.7                            | 99.4                          | 97.1                            | 98.2                         | 94.5                            |
| 60m-10m delta T          | 83.3                             | 94.5                          | 88.9                            | 96.9                          | 97.1                            | 97.0                         | 93.0                            |
| Precipitation            | 100.0                            | 100.0                         | 100.0                           | 100.0                         | 100.0                           | 100.0                        | 100.0                           |
| 100m JFD                 | 97.9                             | 97.0                          | 97.5                            | 89.7                          | 97.7                            | 93.7                         | 95.6                            |
| 10m JFD                  | 81.5                             | 94.5                          | 88.0                            | 89.3                          | 97.0                            | 93.2                         | 90.6                            |

JFD - Joint Frequency Distribution of wind speed, wind direction and atmospheric stability.

## MONTHLY SUMMARY TABLES OF HOURLY METEOROLOGICAL DATA

The tables presented in this section provide a summary of hourly averages of measured meteorological parameters. The tables provide summaries by month for the annual period January through December, 2000. Summaries for the first quarter, second quarter, third quarter, fourth quarter, and semiannual periods are also provided. The parameters provided are listed below.

- \* 10 meter ambient temperature.
- \* Wind direction frequencies at 10 meters and 100 meters.
- \* Precipitation.

Any missing or non-measured data are indicated by a field of 9's.

**10-Meter Ambient Temperature**  
**and**  
**10-Meter Dew Point Temperature**

10 meter back-up temperature data was used, when necessary, to replace invalid 10 meter temperature data.

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/ 0 TO 3/31/ 0

JANUARY

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 31.           | -1.7    | 31.           | -8.3    | 31.           | 61.9 | 31.           | 2.8     | 31.           | -3.8    |
| 2             | 29.           | -2.7    | 31.           | -8.5    | 29.           | 62.9 | 29.           | 2.6     | 29.           | -4.6    |
| 3             | 29.           | -3.1    | 31.           | -8.6    | 29.           | 63.9 | 29.           | 2.6     | 29.           | -5.0    |
| 4             | 29.           | -3.5    | 31.           | -8.8    | 29.           | 64.8 | 29.           | 2.6     | 29.           | -5.2    |
| 5             | 29.           | -3.6    | 31.           | -8.9    | 29.           | 65.0 | 29.           | 2.6     | 29.           | -5.4    |
| 6             | 29.           | -3.8    | 31.           | -9.0    | 29.           | 65.2 | 29.           | 2.6     | 29.           | -5.5    |
| 7             | 29.           | -3.8    | 31.           | -9.1    | 29.           | 65.1 | 29.           | 2.5     | 29.           | -5.5    |
| 8             | 30.           | -3.8    | 31.           | -9.1    | 30.           | 66.2 | 30.           | 2.6     | 30.           | -5.4    |
| 9             | 30.           | -3.4    | 31.           | -8.8    | 30.           | 65.8 | 30.           | 2.7     | 30.           | -5.1    |
| 10            | 30.           | -2.1    | 31.           | -8.2    | 30.           | 63.0 | 30.           | 2.8     | 30.           | -4.1    |
| 11            | 30.           | -0.6    | 31.           | -7.7    | 30.           | 58.6 | 30.           | 2.9     | 30.           | -3.0    |
| 12            | 31.           | 0.7     | 31.           | -7.5    | 31.           | 55.5 | 31.           | 3.0     | 31.           | -2.0    |
| 13            | 31.           | 1.9     | 31.           | -7.4    | 31.           | 51.5 | 31.           | 2.9     | 31.           | -1.3    |
| 14            | 31.           | 2.9     | 31.           | -7.4    | 31.           | 48.3 | 31.           | 2.9     | 31.           | -0.7    |
| 15            | 31.           | 3.4     | 31.           | -7.3    | 31.           | 47.1 | 31.           | 3.0     | 31.           | -0.3    |
| 16            | 31.           | 3.6     | 31.           | -7.3    | 31.           | 46.6 | 31.           | 2.9     | 31.           | -0.3    |
| 17            | 31.           | 3.3     | 31.           | -7.6    | 31.           | 46.9 | 31.           | 2.9     | 31.           | -0.5    |
| 18            | 31.           | 2.3     | 31.           | -7.8    | 31.           | 49.1 | 31.           | 2.8     | 31.           | -1.1    |
| 19            | 31.           | 1.3     | 31.           | -8.0    | 31.           | 51.9 | 31.           | 2.8     | 31.           | -1.8    |
| 20            | 31.           | 0.7     | 31.           | -8.1    | 31.           | 53.8 | 31.           | 2.8     | 31.           | -2.2    |
| 21            | 31.           | 0.0     | 31.           | -8.4    | 31.           | 55.4 | 31.           | 2.8     | 31.           | -2.7    |
| 22            | 31.           | -0.7    | 31.           | -8.3    | 31.           | 58.1 | 31.           | 2.8     | 31.           | -3.2    |
| 23            | 31.           | -1.1    | 31.           | -8.4    | 31.           | 59.4 | 31.           | 2.7     | 31.           | -3.4    |
| 24            | 31.           | -1.7    | 31.           | -8.5    | 31.           | 60.8 | 31.           | 2.7     | 31.           | -3.9    |
| HOURLY MEAN   |               | -0.6    |               | -8.2    |               | 57.7 |               | 2.8     |               | -3.1    |
| AVG DAILY MAX |               | 4.3     |               | -5.5    |               | 70.9 |               | 3.4     |               | 0.4     |
| AVG DAILY MIN |               | -5.2    |               | -11.2   |               | 44.2 |               | 2.2     |               | -6.7    |
| ABSOLUTE MAX  |               | 14.0    |               | 4.7     |               | 81.3 |               | 6.6     |               | 8.3     |
| ABSOLUTE MIN  |               | -13.8   |               | -17.7   |               | 19.0 |               | 1.3     |               | -14.5   |
| TOTAL OBS     | 728           |         | 744           |         | 728           |      | 728           |         | 728           |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/ 0 TO 3/31/ 0

FEBRUARY

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 27.           | 3.0     | 28.           | -3.4    | 27.           | 64.4 | 27.           | 4.2     | 27.           | 0.6     |
| 2             | 28.           | 2.4     | 28.           | -3.6    | 27.           | 65.5 | 27.           | 4.2     | 27.           | 0.4     |
| 3             | 28.           | 2.1     | 28.           | -3.7    | 27.           | 66.1 | 27.           | 4.1     | 27.           | 0.1     |
| 4             | 28.           | 1.8     | 28.           | -3.8    | 27.           | 66.7 | 27.           | 4.1     | 27.           | -0.1    |
| 5             | 28.           | 1.4     | 28.           | -4.0    | 27.           | 67.9 | 27.           | 4.0     | 27.           | -0.4    |
| 6             | 28.           | 1.1     | 28.           | -4.0    | 27.           | 69.0 | 27.           | 4.0     | 27.           | -0.6    |
| 7             | 28.           | 0.9     | 28.           | -4.1    | 27.           | 69.7 | 27.           | 4.0     | 27.           | -0.7    |
| 8             | 28.           | 0.8     | 28.           | -4.0    | 27.           | 70.2 | 27.           | 4.1     | 27.           | -0.7    |
| 9             | 27.           | 1.4     | 27.           | -3.5    | 26.           | 69.9 | 26.           | 4.2     | 26.           | -0.2    |
| 10            | 27.           | 3.0     | 27.           | -2.7    | 26.           | 66.7 | 26.           | 4.4     | 26.           | 1.0     |
| 11            | 28.           | 4.4     | 27.           | -2.1    | 27.           | 62.8 | 27.           | 4.5     | 27.           | 2.0     |
| 12            | 28.           | 5.7     | 27.           | -1.9    | 27.           | 58.8 | 27.           | 4.5     | 27.           | 2.8     |
| 13            | 28.           | 7.1     | 27.           | -1.8    | 27.           | 54.7 | 27.           | 4.6     | 27.           | 3.6     |
| 14            | 28.           | 8.1     | 27.           | -1.9    | 27.           | 51.2 | 27.           | 4.5     | 27.           | 4.1     |
| 15            | 28.           | 8.6     | 27.           | -2.1    | 27.           | 49.0 | 27.           | 4.5     | 27.           | 4.3     |
| 16            | 28.           | 8.8     | 28.           | -2.1    | 28.           | 49.9 | 28.           | 4.5     | 28.           | 4.3     |
| 17            | 28.           | 8.7     | 28.           | -2.5    | 28.           | 48.5 | 28.           | 4.3     | 28.           | 4.1     |
| 18            | 28.           | 8.0     | 28.           | -2.6    | 28.           | 50.1 | 28.           | 4.3     | 28.           | 3.7     |
| 19            | 28.           | 6.8     | 28.           | -2.8    | 28.           | 52.9 | 28.           | 4.2     | 28.           | 3.0     |
| 20            | 29.           | 5.8     | 28.           | -2.9    | 28.           | 55.1 | 28.           | 4.2     | 28.           | 2.4     |
| 21            | 29.           | 5.0     | 28.           | -2.9    | 28.           | 57.9 | 28.           | 4.2     | 28.           | 2.0     |
| 22            | 28.           | 4.6     | 28.           | -2.8    | 27.           | 60.3 | 27.           | 4.4     | 27.           | 1.9     |
| 23            | 28.           | 4.2     | 28.           | -2.8    | 27.           | 61.7 | 27.           | 4.4     | 27.           | 1.7     |
| 24            | 28.           | 3.6     | 28.           | -3.0    | 27.           | 63.1 | 27.           | 4.3     | 27.           | 1.3     |
| HOURLY MEAN   |               | 4.5     |               | -3.0    |               | 60.4 |               | 4.3     |               | 1.7     |
| AVG DAILY MAX |               | 9.5     |               | -0.1    |               | 73.0 |               | 5.1     |               | 5.0     |
| AVG DAILY MIN |               | -1.1    |               | -6.2    |               | 44.7 |               | 3.3     |               | -2.4    |
| ABSOLUTE MAX  |               | 20.6    |               | 13.5    |               | 89.7 |               | 11.5    |               | 15.6    |
| ABSOLUTE MIN  |               | -9.9    |               | -14.4   |               | 24.5 |               | 1.6     |               | -10.6   |
| TOTAL OBS     | 671           |         | 665           |         | 652           |      | 652           |         | 652           |         |



PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/ 0 TO 3/31/ 0

MARCH

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEN POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 31.           | 6.1     | 31.           | -0.8    | 31.           | 62.0 | 31.           | 4.8     | 31.           | 3.3     |
| 2             | 31.           | 5.5     | 31.           | -0.9    | 31.           | 64.0 | 31.           | 4.8     | 31.           | 2.9     |
| 3             | 31.           | 5.2     | 31.           | -1.0    | 31.           | 64.6 | 31.           | 4.8     | 31.           | 2.7     |
| 4             | 31.           | 5.0     | 31.           | -1.1    | 31.           | 65.3 | 31.           | 4.7     | 31.           | 2.6     |
| 5             | 31.           | 4.6     | 31.           | -1.2    | 31.           | 66.8 | 31.           | 4.7     | 31.           | 2.3     |
| 6             | 31.           | 4.2     | 31.           | -1.3    | 31.           | 67.8 | 31.           | 4.7     | 31.           | 2.0     |
| 7             | 31.           | 4.0     | 31.           | -1.4    | 31.           | 68.5 | 31.           | 4.6     | 31.           | 1.9     |
| 8             | 31.           | 4.3     | 31.           | -1.1    | 31.           | 68.1 | 31.           | 4.7     | 31.           | 2.2     |
| 9             | 31.           | 5.8     | 31.           | -0.8    | 31.           | 63.3 | 31.           | 4.8     | 31.           | 3.1     |
| 10            | 31.           | 7.4     | 31.           | -0.5    | 31.           | 59.0 | 31.           | 4.9     | 31.           | 4.1     |
| 11            | 31.           | 9.0     | 31.           | -0.3    | 31.           | 54.1 | 31.           | 4.9     | 31.           | 5.0     |
| 12            | 31.           | 10.3    | 31.           | -0.4    | 31.           | 49.8 | 31.           | 4.9     | 31.           | 5.7     |
| 13            | 31.           | 11.1    | 31.           | -0.7    | 31.           | 46.7 | 31.           | 4.8     | 31.           | 6.1     |
| 14            | 31.           | 11.8    | 31.           | -0.9    | 31.           | 44.2 | 31.           | 4.8     | 31.           | 6.4     |
| 15            | 31.           | 12.3    | 31.           | -0.9    | 31.           | 42.8 | 31.           | 4.7     | 31.           | 6.6     |
| 16            | 31.           | 12.7    | 31.           | -1.1    | 31.           | 41.5 | 31.           | 4.7     | 31.           | 6.7     |
| 17            | 31.           | 12.7    | 31.           | -1.2    | 31.           | 41.0 | 31.           | 4.6     | 31.           | 6.7     |
| 18            | 31.           | 12.4    | 31.           | -1.2    | 31.           | 41.8 | 31.           | 4.6     | 31.           | 6.5     |
| 19            | 31.           | 11.4    | 31.           | -1.0    | 31.           | 44.8 | 31.           | 4.7     | 31.           | 6.1     |
| 20            | 31.           | 10.2    | 31.           | -0.8    | 31.           | 48.9 | 31.           | 4.8     | 31.           | 5.6     |
| 21            | 31.           | 9.2     | 31.           | -0.6    | 31.           | 52.5 | 31.           | 4.9     | 31.           | 5.1     |
| 22            | 31.           | 8.3     | 31.           | -0.5    | 31.           | 55.3 | 31.           | 4.9     | 31.           | 4.6     |
| 23            | 31.           | 7.4     | 31.           | -0.8    | 31.           | 57.4 | 31.           | 4.8     | 31.           | 4.1     |
| 24            | 31.           | 6.7     | 31.           | -0.7    | 31.           | 60.0 | 31.           | 4.8     | 31.           | 3.7     |
| HOURLY MEAN   |               | 8.2     |               | -0.9    |               | 55.4 |               | 4.8     |               | 4.4     |
| AVG DAILY MAX |               | 13.4    |               | 2.2     |               | 72.4 |               | 5.9     |               | 7.5     |
| AVG DAILY MIN |               | 3.0     |               | -3.8    |               | 38.4 |               | 3.9     |               | 0.9     |
| ABSOLUTE MAX  |               | 23.9    |               | 12.9    |               | 81.5 |               | 11.0    |               | 16.8    |
| ABSOLUTE MIN  |               | -5.6    |               | -14.7   |               | 19.0 |               | 1.5     |               | -7.1    |
| TOTAL OBS     |               | 744     |               | 744     |               | 744  |               | 744     |               | 744     |

PROGRAM: WETTEMP  
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 2000

JAN-MAR HOUR AVERAGES FOR THE PERIOD 1/ 1/ 0 TO 3/31/ 0

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 89.           | 2.4     | 90.           | -4.2    | 89.           | 62.7 | 89.           | 3.9     | 89.           | 0.0     |
| 2             | 88.           | 1.8     | 90.           | -4.3    | 87.           | 64.1 | 87.           | 3.9     | 87.           | -0.4    |
| 3             | 88.           | 1.5     | 90.           | -4.5    | 87.           | 64.9 | 87.           | 3.8     | 87.           | -0.6    |
| 4             | 88.           | 1.2     | 90.           | -4.6    | 87.           | 65.6 | 87.           | 3.8     | 87.           | -0.9    |
| 5             | 88.           | 0.9     | 90.           | -4.7    | 87.           | 66.5 | 87.           | 3.8     | 87.           | -1.1    |
| 6             | 88.           | 0.6     | 90.           | -4.8    | 87.           | 67.3 | 87.           | 3.8     | 87.           | -1.3    |
| 7             | 88.           | 0.4     | 90.           | -4.9    | 87.           | 67.7 | 87.           | 3.8     | 87.           | -1.4    |
| 8             | 89.           | 0.5     | 90.           | -4.8    | 88.           | 68.1 | 88.           | 3.8     | 88.           | -1.3    |
| 9             | 88.           | 1.3     | 89.           | -4.4    | 87.           | 66.1 | 87.           | 3.9     | 87.           | -0.7    |
| 10            | 88.           | 2.8     | 89.           | -3.8    | 87.           | 62.7 | 87.           | 4.0     | 87.           | 0.4     |
| 11            | 89.           | 4.3     | 89.           | -3.4    | 88.           | 58.3 | 88.           | 4.1     | 88.           | 1.4     |
| 12            | 90.           | 5.6     | 89.           | -3.3    | 89.           | 54.5 | 89.           | 4.1     | 89.           | 2.1     |
| 13            | 90.           | 6.7     | 89.           | -3.4    | 89.           | 50.8 | 89.           | 4.1     | 89.           | 2.7     |
| 14            | 90.           | 7.6     | 89.           | -3.5    | 89.           | 47.8 | 89.           | 4.1     | 89.           | 3.2     |
| 15            | 90.           | 8.1     | 89.           | -3.5    | 89.           | 46.2 | 89.           | 4.0     | 89.           | 3.5     |
| 16            | 90.           | 8.3     | 90.           | -3.6    | 90.           | 45.9 | 90.           | 4.0     | 90.           | 3.6     |
| 17            | 90.           | 8.2     | 90.           | -3.8    | 90.           | 45.4 | 90.           | 3.9     | 90.           | 3.4     |
| 18            | 90.           | 7.6     | 90.           | -3.9    | 90.           | 46.9 | 90.           | 3.9     | 90.           | 3.0     |
| 19            | 90.           | 6.5     | 90.           | -4.0    | 90.           | 49.8 | 90.           | 3.9     | 90.           | 2.4     |
| 20            | 91.           | 5.5     | 90.           | -4.0    | 90.           | 52.5 | 90.           | 3.9     | 90.           | 1.9     |
| 21            | 91.           | 4.7     | 90.           | -4.0    | 90.           | 55.2 | 90.           | 3.9     | 90.           | 1.5     |
| 22            | 90.           | 4.0     | 90.           | -3.9    | 89.           | 57.8 | 89.           | 4.0     | 89.           | 1.1     |
| 23            | 90.           | 3.5     | 90.           | -4.0    | 89.           | 59.4 | 89.           | 4.0     | 89.           | 0.7     |
| 24            | 90.           | 2.9     | 90.           | -4.1    | 89.           | 61.2 | 89.           | 3.9     | 89.           | 0.3     |
| HOURLY MEAN   |               | 4.1     |               | -4.1    |               | 57.7 |               | 3.9     |               | 1.0     |
| AVG DAILY MAX |               | 9.1     |               | -1.2    |               | 72.1 |               | 4.8     |               | 4.3     |
| AVG DAILY MIN |               | -1.1    |               | -7.1    |               | 42.4 |               | 3.1     |               | -2.8    |
| ABSOLUTE MAX  |               | 23.9    |               | 13.5    |               | 89.7 |               | 11.5    |               | 16.8    |
| ABSOLUTE MIN  |               | -13.8   |               | -17.7   |               | 19.0 |               | 1.3     |               | -14.5   |
| TOTAL OBS     | 2143          |         | 2153          |         | 2124          |      | 2124          |         | 2124          |         |

PROGRAM: WETTEMP  
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/ 0 TO 6/30/ 0

APRIL

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 30.           | 9.8     | 29.           | 2.0     | 29.           | 61.1 | 29.           | 5.7     | 29.           | 6.2     |
| 2             | 29.           | 9.4     | 28.           | 1.8     | 28.           | 61.5 | 28.           | 5.6     | 28.           | 5.9     |
| 3             | 30.           | 8.8     | 29.           | 1.6     | 29.           | 63.3 | 29.           | 5.5     | 29.           | 5.5     |
| 4             | 30.           | 8.4     | 30.           | 1.7     | 30.           | 64.1 | 30.           | 5.6     | 30.           | 5.5     |
| 5             | 30.           | 8.1     | 30.           | 1.8     | 30.           | 65.7 | 30.           | 5.7     | 30.           | 5.4     |
| 6             | 30.           | 7.8     | 30.           | 1.7     | 30.           | 66.7 | 30.           | 5.6     | 30.           | 5.2     |
| 7             | 30.           | 7.9     | 30.           | 2.0     | 30.           | 67.4 | 30.           | 5.7     | 30.           | 5.3     |
| 8             | 30.           | 8.9     | 30.           | 2.3     | 30.           | 64.4 | 30.           | 5.8     | 30.           | 6.0     |
| 9             | 30.           | 10.4    | 30.           | 2.5     | 30.           | 59.0 | 30.           | 5.8     | 30.           | 6.8     |
| 10            | 30.           | 12.0    | 30.           | 2.2     | 30.           | 52.7 | 30.           | 5.7     | 30.           | 7.5     |
| 11            | 30.           | 13.6    | 30.           | 1.8     | 30.           | 47.2 | 30.           | 5.5     | 30.           | 8.1     |
| 12            | 30.           | 14.9    | 30.           | 1.6     | 30.           | 43.5 | 30.           | 5.4     | 30.           | 8.7     |
| 13            | 30.           | 15.5    | 30.           | 1.5     | 30.           | 42.0 | 30.           | 5.4     | 30.           | 8.9     |
| 14            | 30.           | 16.1    | 29.           | 1.3     | 29.           | 41.1 | 29.           | 5.3     | 29.           | 9.0     |
| 15            | 30.           | 16.6    | 29.           | 1.2     | 29.           | 40.3 | 29.           | 5.3     | 29.           | 9.2     |
| 16            | 30.           | 16.9    | 29.           | 1.3     | 29.           | 39.3 | 29.           | 5.4     | 29.           | 9.4     |
| 17            | 30.           | 16.9    | 29.           | 1.5     | 29.           | 39.7 | 29.           | 5.5     | 29.           | 9.5     |
| 18            | 30.           | 16.5    | 28.           | 1.7     | 28.           | 41.8 | 28.           | 5.6     | 28.           | 9.2     |
| 19            | 30.           | 15.5    | 28.           | 1.9     | 28.           | 44.5 | 28.           | 5.7     | 28.           | 8.9     |
| 20            | 30.           | 14.1    | 28.           | 2.0     | 28.           | 48.0 | 28.           | 5.7     | 28.           | 8.3     |
| 21            | 30.           | 12.9    | 28.           | 2.2     | 28.           | 52.3 | 28.           | 5.8     | 28.           | 7.8     |
| 22            | 30.           | 12.0    | 28.           | 2.5     | 28.           | 56.0 | 28.           | 5.9     | 28.           | 7.4     |
| 23            | 30.           | 11.2    | 28.           | 2.6     | 28.           | 58.8 | 28.           | 6.0     | 28.           | 7.1     |
| 24            | 28.           | 9.9     | 29.           | 2.5     | 28.           | 59.7 | 28.           | 5.7     | 28.           | 6.4     |
| HOURLY MEAN   |               | 12.3    |               | 1.9     |               | 53.4 |               | 5.6     |               | 7.4     |
| AVG DAILY MAX |               | 18.2    |               | 5.5     |               | 72.0 |               | 7.2     |               | 10.7    |
| AVG DAILY MIN |               | 6.3     |               | -1.3    |               | 34.7 |               | 4.4     |               | 3.7     |
| ABSOLUTE MAX  |               | 31.2    |               | 16.5    |               | 87.0 |               | 13.8    |               | 18.4    |
| ABSOLUTE MIN  |               | -1.8    |               | -10.7   |               | 19.0 |               | 2.1     |               | -3.9    |
| TOTAL OBS     | 717           |         | 699           |         | 698           |      | 698           |         | 698           |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/ 0 TO 6/30/ 0

MAY

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 27.           | 17.6    | 17.           | 8.4     | 15.           | 65.0 | 15.           | 8.7     | 15.           | 11.8    |
| 2             | 28.           | 17.3    | 18.           | 8.3     | 16.           | 67.8 | 16.           | 8.6     | 16.           | 11.5    |
| 3             | 29.           | 16.7    | 20.           | 8.5     | 18.           | 69.4 | 18.           | 8.8     | 18.           | 11.6    |
| 4             | 29.           | 15.9    | 24.           | 9.0     | 22.           | 69.9 | 22.           | 9.1     | 22.           | 12.0    |
| 5             | 29.           | 15.6    | 25.           | 8.7     | 23.           | 69.5 | 23.           | 8.9     | 23.           | 11.7    |
| 6             | 29.           | 15.3    | 26.           | 8.7     | 24.           | 69.9 | 24.           | 8.9     | 24.           | 11.6    |
| 7             | 30.           | 15.5    | 25.           | 8.9     | 24.           | 69.5 | 24.           | 8.8     | 24.           | 11.5    |
| 8             | 30.           | 16.9    | 25.           | 9.3     | 24.           | 65.1 | 24.           | 9.0     | 24.           | 12.2    |
| 9             | 30.           | 18.7    | 25.           | 9.5     | 24.           | 59.8 | 24.           | 9.1     | 24.           | 13.1    |
| 10            | 30.           | 20.2    | 24.           | 9.1     | 23.           | 54.2 | 23.           | 8.8     | 23.           | 13.4    |
| 11            | 30.           | 21.5    | 21.           | 9.0     | 20.           | 51.7 | 20.           | 8.7     | 20.           | 13.6    |
| 12            | 30.           | 22.8    | 18.           | 8.1     | 17.           | 47.4 | 17.           | 8.1     | 17.           | 13.3    |
| 13            | 30.           | 23.7    | 19.           | 7.9     | 18.           | 44.6 | 18.           | 8.0     | 18.           | 13.6    |
| 14            | 30.           | 24.5    | 18.           | 7.6     | 17.           | 42.2 | 17.           | 7.8     | 17.           | 13.7    |
| 15            | 30.           | 24.9    | 18.           | 7.6     | 17.           | 41.9 | 17.           | 7.7     | 17.           | 13.8    |
| 16            | 30.           | 25.1    | 17.           | 7.4     | 16.           | 42.2 | 16.           | 7.6     | 16.           | 13.7    |
| 17            | 31.           | 25.0    | 16.           | 7.5     | 16.           | 44.8 | 16.           | 8.1     | 16.           | 14.0    |
| 18            | 31.           | 24.7    | 14.           | 6.9     | 14.           | 44.9 | 14.           | 7.7     | 14.           | 13.3    |
| 19            | 31.           | 23.9    | 15.           | 7.3     | 15.           | 46.6 | 15.           | 8.0     | 15.           | 13.4    |
| 20            | 31.           | 22.3    | 17.           | 8.2     | 17.           | 49.7 | 17.           | 8.4     | 17.           | 13.6    |
| 21            | 30.           | 21.2    | 17.           | 8.3     | 16.           | 55.1 | 16.           | 8.8     | 16.           | 13.5    |
| 22            | 30.           | 20.3    | 18.           | 8.4     | 17.           | 57.2 | 17.           | 8.8     | 17.           | 13.2    |
| 23            | 30.           | 19.3    | 18.           | 8.3     | 17.           | 59.7 | 17.           | 8.7     | 17.           | 12.7    |
| 24            | 16.           | 15.9    | 16.           | 8.0     | 15.           | 63.7 | 15.           | 8.7     | 15.           | 12.0    |
| HOURLY MEAN   |               | 20.3    |               | 8.4     |               | 57.3 |               | 8.6     |               | 12.8    |
| AVG DAILY MAX |               | 25.9    |               | 11.8    |               | 71.5 |               | 10.5    |               | 15.8    |
| AVG DAILY MIN |               | 14.3    |               | 6.8     |               | 42.2 |               | 7.8     |               | 11.1    |
| ABSOLUTE MAX  |               | 36.6    |               | 18.3    |               | 82.6 |               | 15.4    |               | 21.3    |
| ABSOLUTE MIN  |               | 5.9     |               | -4.5    |               | 19.0 |               | 3.3     |               | 2.3     |
| TOTAL OBS     | 701           |         | 471           |         | 445           |      | 445           |         | 445           |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/ 0 TO 6/30/ 0

JUNE

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 29.           | 19.7    | 25.           | 13.2    | 24.           | 69.9 | 24.           | 11.4    | 24.           | 15.5    |
| 2             | 29.           | 19.3    | 26.           | 13.2    | 25.           | 71.6 | 25.           | 11.3    | 25.           | 15.2    |
| 3             | 29.           | 18.8    | 26.           | 12.8    | 25.           | 71.9 | 25.           | 11.1    | 25.           | 14.8    |
| 4             | 29.           | 18.5    | 26.           | 12.6    | 25.           | 72.4 | 25.           | 10.9    | 25.           | 14.6    |
| 5             | 29.           | 18.0    | 27.           | 12.6    | 26.           | 73.2 | 26.           | 10.9    | 26.           | 14.5    |
| 6             | 29.           | 18.1    | 27.           | 12.8    | 26.           | 73.7 | 26.           | 11.1    | 26.           | 14.6    |
| 7             | 29.           | 18.7    | 26.           | 13.1    | 25.           | 72.2 | 25.           | 11.3    | 25.           | 15.1    |
| 8             | 29.           | 20.0    | 27.           | 13.4    | 26.           | 67.8 | 26.           | 11.6    | 26.           | 15.9    |
| 9             | 29.           | 21.2    | 26.           | 13.6    | 25.           | 62.6 | 25.           | 11.7    | 25.           | 16.6    |
| 10            | 30.           | 22.5    | 24.           | 13.3    | 24.           | 57.7 | 24.           | 11.6    | 24.           | 17.0    |
| 11            | 30.           | 23.5    | 24.           | 13.3    | 24.           | 54.8 | 24.           | 11.6    | 24.           | 17.3    |
| 12            | 30.           | 24.5    | 22.           | 12.6    | 22.           | 50.6 | 22.           | 11.0    | 22.           | 17.2    |
| 13            | 30.           | 25.4    | 20.           | 12.3    | 20.           | 49.3 | 20.           | 10.8    | 20.           | 17.2    |
| 14            | 30.           | 26.0    | 19.           | 12.3    | 19.           | 48.0 | 19.           | 10.8    | 19.           | 17.3    |
| 15            | 30.           | 26.5    | 18.           | 12.2    | 18.           | 46.7 | 18.           | 10.7    | 18.           | 17.4    |
| 16            | 30.           | 26.8    | 18.           | 12.0    | 18.           | 44.8 | 18.           | 10.6    | 18.           | 17.5    |
| 17            | 30.           | 26.6    | 19.           | 12.4    | 19.           | 47.2 | 19.           | 10.9    | 19.           | 17.6    |
| 18            | 30.           | 25.8    | 21.           | 12.5    | 21.           | 49.5 | 21.           | 11.0    | 21.           | 17.5    |
| 19            | 30.           | 25.3    | 21.           | 12.5    | 21.           | 50.7 | 21.           | 11.0    | 21.           | 17.3    |
| 20            | 30.           | 23.8    | 21.           | 12.7    | 21.           | 54.7 | 21.           | 11.2    | 21.           | 16.9    |
| 21            | 30.           | 22.3    | 22.           | 13.0    | 22.           | 59.7 | 22.           | 11.4    | 22.           | 16.6    |
| 22            | 29.           | 21.2    | 22.           | 13.4    | 21.           | 65.2 | 21.           | 11.5    | 21.           | 16.1    |
| 23            | 29.           | 20.6    | 23.           | 13.5    | 22.           | 67.3 | 22.           | 11.6    | 22.           | 16.0    |
| 24            | 21.           | 18.5    | 22.           | 13.0    | 21.           | 69.9 | 21.           | 11.2    | 21.           | 15.2    |
| HOURLY MEAN   |               | 22.2    |               | 12.9    |               | 61.4 |               | 11.2    |               | 16.2    |
| AVG DAILY MAX |               | 27.4    |               | 15.5    |               | 76.8 |               | 13.2    |               | 18.7    |
| AVG DAILY MIN |               | 17.1    |               | 11.4    |               | 48.9 |               | 10.2    |               | 14.4    |
| ABSOLUTE MAX  |               | 33.7    |               | 20.5    |               | 85.6 |               | 17.6    |               | 22.9    |
| ABSOLUTE MIN  |               | 11.0    |               | 4.6     |               | 28.1 |               | 6.2     |               | 9.2     |
| TOTAL OBS     | 700           |         | 552           |         | 540           |      | 540           |         | 540           |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 2000

APR-JUN HOUR AVERAGES FOR THE PERIOD 4/ 1/ 0 TO 6/30/ 0

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 86.           | 15.6    | 71.           | 7.5     | 68.           | 65.1 | 68.           | 8.4     | 68.           | 10.7    |
| 2             | 86.           | 15.3    | 72.           | 7.5     | 69.           | 66.6 | 69.           | 8.4     | 69.           | 10.6    |
| 3             | 88.           | 14.7    | 75.           | 7.3     | 72.           | 67.8 | 72.           | 8.3     | 72.           | 10.3    |
| 4             | 88.           | 14.2    | 80.           | 7.4     | 77.           | 68.4 | 77.           | 8.3     | 77.           | 10.3    |
| 5             | 88.           | 13.9    | 82.           | 7.5     | 79.           | 69.3 | 79.           | 8.3     | 79.           | 10.2    |
| 6             | 88.           | 13.6    | 83.           | 7.5     | 80.           | 69.9 | 80.           | 8.4     | 80.           | 10.2    |
| 7             | 89.           | 14.0    | 81.           | 7.7     | 79.           | 69.6 | 79.           | 8.4     | 79.           | 10.3    |
| 8             | 89.           | 15.2    | 82.           | 8.1     | 80.           | 65.7 | 80.           | 8.6     | 80.           | 11.1    |
| 9             | 89.           | 16.7    | 81.           | 8.2     | 79.           | 60.3 | 79.           | 8.7     | 79.           | 11.8    |
| 10            | 90.           | 18.2    | 78.           | 7.7     | 77.           | 54.7 | 77.           | 8.5     | 77.           | 12.3    |
| 11            | 90.           | 19.5    | 75.           | 7.5     | 74.           | 50.9 | 74.           | 8.3     | 74.           | 12.6    |
| 12            | 90.           | 20.7    | 70.           | 6.7     | 69.           | 46.7 | 69.           | 7.9     | 69.           | 12.5    |
| 13            | 90.           | 21.5    | 69.           | 6.4     | 68.           | 44.8 | 68.           | 7.7     | 68.           | 12.6    |
| 14            | 90.           | 22.2    | 66.           | 6.2     | 65.           | 43.4 | 65.           | 7.6     | 65.           | 12.7    |
| 15            | 90.           | 22.7    | 65.           | 6.0     | 64.           | 42.5 | 64.           | 7.5     | 64.           | 12.7    |
| 16            | 90.           | 23.0    | 64.           | 5.9     | 63.           | 41.6 | 63.           | 7.5     | 63.           | 12.8    |
| 17            | 91.           | 22.9    | 64.           | 6.2     | 64.           | 43.2 | 64.           | 7.8     | 64.           | 13.0    |
| 18            | 91.           | 22.4    | 63.           | 6.5     | 63.           | 45.0 | 63.           | 7.9     | 63.           | 12.9    |
| 19            | 91.           | 21.6    | 64.           | 6.6     | 64.           | 47.0 | 64.           | 8.0     | 64.           | 12.7    |
| 20            | 91.           | 20.1    | 66.           | 7.0     | 66.           | 50.6 | 66.           | 8.1     | 66.           | 12.4    |
| 21            | 90.           | 18.8    | 67.           | 7.3     | 66.           | 55.4 | 66.           | 8.4     | 66.           | 12.1    |
| 22            | 89.           | 17.8    | 68.           | 7.6     | 66.           | 59.2 | 66.           | 8.4     | 66.           | 11.7    |
| 23            | 89.           | 17.0    | 69.           | 7.7     | 67.           | 61.8 | 67.           | 8.5     | 67.           | 11.4    |
| 24            | 65.           | 14.2    | 67.           | 7.3     | 64.           | 64.0 | 64.           | 8.2     | 64.           | 10.6    |
| HOURLY MEAN   |               | 18.2    |               | 7.2     |               | 57.0 |               | 8.2     |               | 11.6    |
| AVG DAILY MAX |               | 23.9    |               | 10.9    |               | 73.4 |               | 10.3    |               | 15.0    |
| AVG DAILY MIN |               | 12.6    |               | 5.6     |               | 41.9 |               | 7.5     |               | 9.7     |
| ABSOLUTE MAX  |               | 36.6    |               | 20.5    |               | 87.0 |               | 17.6    |               | 22.9    |
| ABSOLUTE MIN  |               | -1.8    |               | -10.7   |               | 19.0 |               | 2.1     |               | -3.9    |
| TOTAL OBS     | 2118          |         | 1722          |         | 1683          |      | 1683          |         | 1683          |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-JUN 2000

JAN-JUN HOUR AVERAGES FOR THE PERIOD 1/ 1/ 0 TO 6/30/ 0

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 175.          | 8.9     | 161.          | 0.9     | 157.          | 63.7 | 157.          | 5.8     | 157.          | 4.7     |
| 2             | 174.          | 8.5     | 162.          | 0.9     | 156.          | 65.2 | 156.          | 5.9     | 156.          | 4.5     |
| 3             | 176.          | 8.1     | 165.          | 0.9     | 159.          | 66.2 | 159.          | 5.9     | 159.          | 4.3     |
| 4             | 176.          | 7.7     | 170.          | 1.0     | 164.          | 66.9 | 164.          | 5.9     | 164.          | 4.4     |
| 5             | 176.          | 7.4     | 172.          | 1.1     | 166.          | 67.8 | 166.          | 6.0     | 166.          | 4.3     |
| 6             | 176.          | 7.1     | 173.          | 1.1     | 167.          | 68.6 | 167.          | 6.0     | 167.          | 4.2     |
| 7             | 177.          | 7.3     | 171.          | 1.1     | 166.          | 68.6 | 166.          | 6.0     | 166.          | 4.2     |
| 8             | 178.          | 7.9     | 172.          | 1.4     | 168.          | 67.0 | 168.          | 6.1     | 168.          | 4.6     |
| 9             | 177.          | 9.1     | 170.          | 1.6     | 166.          | 63.4 | 166.          | 6.2     | 166.          | 5.3     |
| 10            | 178.          | 10.6    | 167.          | 1.6     | 164.          | 59.0 | 164.          | 6.1     | 164.          | 5.9     |
| 11            | 179.          | 12.0    | 164.          | 1.6     | 162.          | 54.9 | 162.          | 6.0     | 162.          | 6.5     |
| 12            | 180.          | 13.1    | 159.          | 1.1     | 158.          | 51.1 | 158.          | 5.8     | 158.          | 6.7     |
| 13            | 180.          | 14.1    | 158.          | 0.9     | 157.          | 48.2 | 157.          | 5.6     | 157.          | 7.0     |
| 14            | 180.          | 14.9    | 155.          | 0.6     | 154.          | 45.9 | 154.          | 5.5     | 154.          | 7.2     |
| 15            | 180.          | 15.4    | 154.          | 0.5     | 153.          | 44.7 | 153.          | 5.5     | 153.          | 7.4     |
| 16            | 180.          | 15.6    | 154.          | 0.4     | 153.          | 44.1 | 153.          | 5.4     | 153.          | 7.4     |
| 17            | 181.          | 15.6    | 154.          | 0.4     | 154.          | 44.5 | 154.          | 5.5     | 154.          | 7.4     |
| 18            | 181.          | 15.0    | 153.          | 0.4     | 153.          | 46.1 | 153.          | 5.5     | 153.          | 7.1     |
| 19            | 181.          | 14.1    | 154.          | 0.4     | 154.          | 48.6 | 154.          | 5.6     | 154.          | 6.7     |
| 20            | 182.          | 12.8    | 156.          | 0.7     | 156.          | 51.7 | 156.          | 5.7     | 156.          | 6.3     |
| 21            | 181.          | 11.7    | 157.          | 0.9     | 156.          | 55.3 | 156.          | 5.8     | 156.          | 6.0     |
| 22            | 179.          | 10.9    | 158.          | 1.0     | 155.          | 58.4 | 155.          | 5.9     | 155.          | 5.6     |
| 23            | 179.          | 10.2    | 159.          | 1.1     | 156.          | 60.4 | 156.          | 5.9     | 156.          | 5.3     |
| 24            | 155.          | 7.6     | 157.          | 0.7     | 153.          | 62.4 | 153.          | 5.7     | 153.          | 4.6     |
| HOURLY MEAN   |               | 11.1    |               | 0.9     |               | 57.4 |               | 5.8     |               | 5.7     |
| AVG DAILY MAX |               | 16.5    |               | 4.8     |               | 72.7 |               | 7.5     |               | 9.6     |
| AVG DAILY MIN |               | 5.8     |               | -0.9    |               | 42.2 |               | 5.3     |               | 3.4     |
| ABSOLUTE MAX  |               | 36.6    |               | 20.5    |               | 89.7 |               | 17.6    |               | 22.9    |
| ABSOLUTE MIN  |               | -13.8   |               | -17.7   |               | 19.0 |               | 1.3     |               | -14.5   |
| TOTAL OBS     | 4261          |         | 3875          |         | 3807          |      | 3807          |         | 3807          |         |

PROGRAM: WETTEMP  
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/ 0 TO 9/30/ 0

JULY

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |        | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|--------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)    | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 31.           | 22.6    | 3.            | 17.5    | 3.            | 82.6   | 3.            | 14.8    | 3.            | 18.6    |
| 2             | 31.           | 22.2    | 3.            | 17.4    | 3.            | 83.4   | 3.            | 14.7    | 3.            | 18.5    |
| 3             | 31.           | 21.7    | 4.            | 15.7    | 4.            | 79.9   | 4.            | 13.5    | 4.            | 17.3    |
| 4             | 31.           | 21.3    | 6.            | 16.3    | 6.            | 79.9   | 6.            | 13.9    | 6.            | 17.8    |
| 5             | 31.           | 21.0    | 6.            | 16.9    | 6.            | 83.8   | 6.            | 14.4    | 6.            | 18.0    |
| 6             | 31.           | 20.8    | 6.            | 16.7    | 6.            | 84.3   | 6.            | 14.3    | 6.            | 17.8    |
| 7             | 31.           | 21.2    | 8.            | 16.2    | 8.            | 80.7   | 8.            | 13.8    | 8.            | 17.7    |
| 8             | 31.           | 22.2    | 8.            | 17.3    | 8.            | 83.0   | 8.            | 14.7    | 8.            | 18.5    |
| 9             | 31.           | 23.5    | 7.            | 17.1    | 7.            | 78.5   | 7.            | 14.6    | 7.            | 18.7    |
| 10            | 30.           | 24.9    | 6.            | 16.9    | 5.            | 72.3   | 5.            | 13.7    | 5.            | 18.3    |
| 11            | 30.           | 26.1    | 3.            | 18.6    | 2.            | 79.4   | 2.            | 15.4    | 2.            | 19.5    |
| 12            | 31.           | 27.0    | 3.            | 18.0    | 3.            | 69.4   | 3.            | 15.2    | 3.            | 20.2    |
| 13            | 30.           | 27.8    | 3.            | 18.3    | 3.            | 66.5   | 3.            | 15.4    | 3.            | 20.7    |
| 14            | 30.           | 28.3    | 2.            | 19.6    | 2.            | 64.0   | 2.            | 16.5    | 2.            | 22.2    |
| 15            | 29.           | 28.6    | 0.            | -999.0  | 0.            | -999.0 | 0.            | -999.0  | 0.            | -999.0  |
| 16            | 30.           | 28.6    | 0.            | -999.0  | 0.            | -999.0 | 0.            | -999.0  | 0.            | -999.0  |
| 17            | 31.           | 28.7    | 1.            | 21.9    | 1.            | 55.9   | 1.            | 18.7    | 1.            | 24.9    |
| 18            | 31.           | 28.5    | 1.            | 21.9    | 1.            | 57.2   | 1.            | 18.7    | 1.            | 24.8    |
| 19            | 31.           | 27.7    | 1.            | 21.9    | 1.            | 58.8   | 1.            | 18.8    | 1.            | 24.6    |
| 20            | 31.           | 26.1    | 1.            | 21.9    | 1.            | 63.0   | 1.            | 18.8    | 1.            | 24.3    |
| 21            | 31.           | 24.8    | 2.            | 19.8    | 2.            | 76.5   | 2.            | 16.9    | 2.            | 21.3    |
| 22            | 31.           | 24.0    | 2.            | 18.1    | 2.            | 81.0   | 2.            | 15.3    | 2.            | 19.4    |
| 23            | 31.           | 23.3    | 2.            | 18.6    | 2.            | 85.4   | 2.            | 15.8    | 2.            | 19.5    |
| 24            | 1.            | 22.8    | 2.            | 17.9    | 1.            | 75.8   | 1.            | 15.4    | 1.            | 19.9    |
| HOURLY MEAN   |               | 24.8    |               | 17.5    |               | 78.2   |               | 14.8    |               | 18.9    |
| AVG DAILY MAX |               | 29.1    |               | 18.2    |               | 86.3   |               | 15.6    |               | 20.0    |
| AVG DAILY MIN |               | 20.6    |               | 15.7    |               | 68.4   |               | 13.4    |               | 17.6    |
| ABSOLUTE MAX  |               | 34.4    |               | 21.9    |               | 91.7   |               | 18.9    |               | 24.9    |
| ABSOLUTE MIN  |               | 16.3    |               | 10.3    |               | 55.9   |               | 9.3     |               | 13.6    |
| TOTAL OBS     | 707           |         | 80            |         | 77            |        | 77            |         | 77            |         |



PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/ 0 TO 9/30/ 0

AUGUST

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/H3) | NUMBER<br>OBS | (DEG C) |
| 1             | 31.           | 23.8    | 15.           | 19.1    | 15.           | 74.9 | 15.           | 16.3    | 15.           | 20.8    |
| 2             | 31.           | 23.4    | 15.           | 18.8    | 15.           | 75.6 | 15.           | 16.1    | 15.           | 20.6    |
| 3             | 31.           | 23.1    | 15.           | 18.9    | 15.           | 77.5 | 15.           | 16.2    | 15.           | 20.5    |
| 4             | 31.           | 22.7    | 15.           | 18.6    | 15.           | 78.3 | 15.           | 15.9    | 15.           | 20.1    |
| 5             | 31.           | 22.4    | 15.           | 18.3    | 15.           | 78.7 | 15.           | 15.6    | 15.           | 19.8    |
| 6             | 31.           | 22.0    | 15.           | 18.0    | 15.           | 79.2 | 15.           | 15.4    | 15.           | 19.5    |
| 7             | 31.           | 22.1    | 15.           | 17.8    | 15.           | 79.1 | 15.           | 15.2    | 15.           | 19.3    |
| 8             | 31.           | 23.1    | 15.           | 18.2    | 15.           | 77.2 | 15.           | 15.5    | 15.           | 19.8    |
| 9             | 31.           | 24.5    | 15.           | 18.1    | 15.           | 71.7 | 15.           | 15.3    | 15.           | 20.2    |
| 10            | 31.           | 25.9    | 15.           | 18.2    | 15.           | 66.8 | 15.           | 15.3    | 15.           | 20.6    |
| 11            | 31.           | 27.3    | 15.           | 18.3    | 15.           | 63.0 | 15.           | 15.3    | 15.           | 21.1    |
| 12            | 30.           | 28.6    | 15.           | 18.4    | 15.           | 58.8 | 15.           | 15.4    | 15.           | 21.6    |
| 13            | 30.           | 29.5    | 15.           | 18.4    | 15.           | 56.6 | 15.           | 15.4    | 15.           | 21.9    |
| 14            | 30.           | 30.1    | 15.           | 18.3    | 15.           | 54.5 | 15.           | 15.3    | 15.           | 22.1    |
| 15            | 30.           | 30.7    | 15.           | 18.4    | 15.           | 52.6 | 15.           | 15.4    | 15.           | 22.4    |
| 16            | 31.           | 30.8    | 16.           | 18.7    | 16.           | 52.1 | 16.           | 15.7    | 16.           | 22.7    |
| 17            | 31.           | 30.7    | 16.           | 19.0    | 16.           | 53.2 | 16.           | 16.0    | 16.           | 22.8    |
| 18            | 31.           | 29.8    | 16.           | 19.3    | 16.           | 56.9 | 16.           | 16.3    | 16.           | 22.6    |
| 19            | 31.           | 28.4    | 16.           | 19.8    | 16.           | 63.5 | 16.           | 16.9    | 16.           | 22.5    |
| 20            | 31.           | 26.9    | 16.           | 19.6    | 16.           | 67.7 | 16.           | 16.7    | 16.           | 21.9    |
| 21            | 31.           | 25.9    | 16.           | 19.4    | 16.           | 70.9 | 16.           | 16.6    | 16.           | 21.4    |
| 22            | 31.           | 25.3    | 16.           | 18.9    | 16.           | 70.8 | 16.           | 16.1    | 16.           | 21.0    |
| 23            | 31.           | 24.6    | 16.           | 18.9    | 16.           | 72.4 | 16.           | 16.2    | 16.           | 20.9    |
| 24            | 16.           | 24.2    | 16.           | 19.0    | 16.           | 73.6 | 16.           | 16.3    | 16.           | 20.9    |
| HOURLY MEAN   |               | 26.1    |               | 18.7    |               | 67.7 |               | 15.9    |               | 21.1    |
| AVG DAILY MAX |               | 31.4    |               | 21.3    |               | 83.1 |               | 18.5    |               | 23.5    |
| AVG DAILY MIN |               | 21.5    |               | 16.0    |               | 48.2 |               | 13.4    |               | 18.7    |
| ABSOLUTE MAX  |               | 39.9    |               | 23.6    |               | 93.5 |               | 20.9    |               | 26.8    |
| ABSOLUTE MIN  |               | 16.5    |               | 12.8    |               | 20.8 |               | 10.5    |               | 14.7    |
| TOTAL OBS     | 725           |         | 369           |         | 369           |      | 369           |         | 369           |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 7/ 1/ 0 TO 9/30/ 0

SEPTEMBER

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 30.           | 18.3    | 30.           | 9.8     | 30.           | 59.8 | 30.           | 9.6     | 30.           | 13.7    |
| 2             | 30.           | 17.8    | 30.           | 9.8     | 30.           | 61.6 | 30.           | 9.5     | 30.           | 13.4    |
| 3             | 30.           | 17.1    | 30.           | 9.7     | 30.           | 63.6 | 30.           | 9.5     | 30.           | 13.1    |
| 4             | 30.           | 16.6    | 30.           | 9.7     | 30.           | 65.5 | 30.           | 9.5     | 30.           | 12.9    |
| 5             | 30.           | 16.1    | 30.           | 9.6     | 30.           | 67.2 | 30.           | 9.5     | 30.           | 12.6    |
| 6             | 30.           | 15.7    | 30.           | 9.6     | 30.           | 69.1 | 30.           | 9.5     | 30.           | 12.4    |
| 7             | 30.           | 15.6    | 30.           | 9.8     | 30.           | 70.4 | 30.           | 9.7     | 30.           | 12.5    |
| 8             | 30.           | 16.7    | 30.           | 10.3    | 30.           | 67.4 | 30.           | 9.9     | 30.           | 13.2    |
| 9             | 30.           | 18.9    | 30.           | 10.5    | 30.           | 59.9 | 30.           | 10.0    | 30.           | 14.3    |
| 10            | 30.           | 21.2    | 30.           | 10.3    | 30.           | 52.5 | 30.           | 9.9     | 30.           | 15.1    |
| 11            | 30.           | 23.0    | 30.           | 10.1    | 30.           | 46.7 | 30.           | 9.7     | 30.           | 15.7    |
| 12            | 30.           | 24.2    | 30.           | 10.2    | 30.           | 43.9 | 30.           | 9.8     | 30.           | 16.3    |
| 13            | 30.           | 25.3    | 30.           | 10.1    | 30.           | 41.4 | 30.           | 9.7     | 30.           | 16.7    |
| 14            | 30.           | 26.1    | 30.           | 9.9     | 30.           | 39.3 | 30.           | 9.5     | 30.           | 16.8    |
| 15            | 30.           | 26.9    | 30.           | 9.6     | 30.           | 37.2 | 30.           | 9.3     | 30.           | 16.9    |
| 16            | 30.           | 27.1    | 30.           | 9.4     | 30.           | 36.2 | 30.           | 9.1     | 30.           | 16.9    |
| 17            | 30.           | 26.8    | 30.           | 9.3     | 30.           | 36.7 | 30.           | 9.1     | 30.           | 16.8    |
| 18            | 30.           | 25.7    | 30.           | 9.6     | 30.           | 39.3 | 30.           | 9.3     | 30.           | 16.5    |
| 19            | 30.           | 23.2    | 30.           | 10.0    | 30.           | 45.6 | 30.           | 9.6     | 30.           | 15.7    |
| 20            | 30.           | 21.6    | 30.           | 10.0    | 30.           | 49.9 | 30.           | 9.5     | 30.           | 15.1    |
| 21            | 30.           | 20.8    | 30.           | 9.7     | 30.           | 51.8 | 30.           | 9.4     | 30.           | 14.6    |
| 22            | 30.           | 20.0    | 30.           | 9.7     | 30.           | 54.1 | 30.           | 9.4     | 30.           | 14.3    |
| 23            | 30.           | 19.3    | 30.           | 9.7     | 30.           | 56.2 | 30.           | 9.4     | 30.           | 14.0    |
| 24            | 30.           | 18.7    | 30.           | 9.7     | 30.           | 58.1 | 30.           | 9.4     | 30.           | 13.8    |
| HOURLY MEAN   |               | 20.9    |               | 9.8     |               | 53.1 |               | 9.5     |               | 14.7    |
| AVG DAILY MAX |               | 27.8    |               | 12.5    |               | 73.0 |               | 11.3    |               | 17.7    |
| AVG DAILY MIN |               | 14.4    |               | 7.2     |               | 33.9 |               | 7.9     |               | 11.4    |
| ABSOLUTE MAX  |               | 39.1    |               | 22.2    |               | 84.7 |               | 19.3    |               | 24.9    |
| ABSOLUTE MIN  |               | 5.9     |               | -0.3    |               | 19.0 |               | 4.5     |               | 3.9     |
| TOTAL OBS     | 720           |         | 720           |         | 720           |      | 720           |         | 720           |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 2000

JUL-SEP HOUR AVERAGES FOR THE PERIOD 7/ 1/ 0 TO 9/30/ 0

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 92.           | 21.6    | 48.           | 13.2    | 48.           | 65.9 | 48.           | 12.0    | 48.           | 16.2    |
| 2             | 92.           | 21.2    | 48.           | 13.1    | 48.           | 67.3 | 48.           | 11.9    | 48.           | 16.0    |
| 3             | 92.           | 20.7    | 49.           | 13.0    | 49.           | 69.2 | 49.           | 11.9    | 49.           | 15.7    |
| 4             | 92.           | 20.3    | 51.           | 13.1    | 51.           | 70.9 | 51.           | 11.9    | 51.           | 15.6    |
| 5             | 92.           | 19.9    | 51.           | 13.0    | 51.           | 72.5 | 51.           | 11.9    | 51.           | 15.4    |
| 6             | 92.           | 19.5    | 51.           | 12.9    | 51.           | 73.8 | 51.           | 11.8    | 51.           | 15.1    |
| 7             | 92.           | 19.7    | 53.           | 13.1    | 53.           | 74.4 | 53.           | 11.9    | 53.           | 15.2    |
| 8             | 92.           | 20.7    | 53.           | 13.6    | 53.           | 72.5 | 53.           | 12.2    | 53.           | 15.9    |
| 9             | 92.           | 22.3    | 52.           | 13.6    | 52.           | 65.8 | 52.           | 12.1    | 52.           | 16.6    |
| 10            | 91.           | 24.0    | 50.           | 13.4    | 50.           | 58.8 | 50.           | 11.9    | 50.           | 17.1    |
| 11            | 91.           | 25.4    | 48.           | 13.1    | 47.           | 53.3 | 47.           | 11.7    | 47.           | 17.6    |
| 12            | 91.           | 26.6    | 48.           | 13.2    | 48.           | 50.2 | 48.           | 11.9    | 48.           | 18.2    |
| 13            | 90.           | 27.5    | 48.           | 13.2    | 48.           | 47.7 | 48.           | 11.8    | 48.           | 18.5    |
| 14            | 90.           | 28.2    | 47.           | 13.0    | 47.           | 45.2 | 47.           | 11.7    | 47.           | 18.7    |
| 15            | 89.           | 28.7    | 45.           | 12.5    | 45.           | 42.4 | 45.           | 11.3    | 45.           | 18.7    |
| 16            | 91.           | 28.9    | 46.           | 12.6    | 46.           | 41.7 | 46.           | 11.4    | 46.           | 18.9    |
| 17            | 92.           | 28.8    | 47.           | 12.9    | 47.           | 42.7 | 47.           | 11.6    | 47.           | 19.0    |
| 18            | 92.           | 28.0    | 47.           | 13.1    | 47.           | 45.7 | 47.           | 11.8    | 47.           | 18.7    |
| 19            | 92.           | 26.5    | 47.           | 13.6    | 47.           | 52.0 | 47.           | 12.3    | 47.           | 18.2    |
| 20            | 92.           | 24.9    | 47.           | 13.5    | 47.           | 56.2 | 47.           | 12.2    | 47.           | 17.6    |
| 21            | 92.           | 23.9    | 48.           | 13.4    | 48.           | 59.2 | 48.           | 12.1    | 48.           | 17.2    |
| 22            | 92.           | 23.1    | 48.           | 13.1    | 48.           | 60.8 | 48.           | 11.9    | 48.           | 16.7    |
| 23            | 92.           | 22.4    | 48.           | 13.1    | 48.           | 62.9 | 48.           | 11.9    | 48.           | 16.5    |
| 24            | 47.           | 20.7    | 48.           | 13.1    | 47.           | 63.7 | 47.           | 11.9    | 47.           | 16.3    |
| HOURLY MEAN   |               | 23.9    |               | 13.2    |               | 59.3 |               | 11.9    |               | 17.0    |
| AVG DAILY MAX |               | 29.5    |               | 16.0    |               | 78.3 |               | 14.1    |               | 19.8    |
| AVG DAILY MIN |               | 18.9    |               | 11.3    |               | 44.2 |               | 10.5    |               | 14.6    |
| ABSOLUTE MAX  |               | 39.9    |               | 23.6    |               | 93.5 |               | 20.9    |               | 26.8    |
| ABSOLUTE MIN  |               | 5.9     |               | -0.3    |               | 19.0 |               | 4.5     |               | 3.9     |
| TOTAL OBS     | 2152          |         | 1169          |         | 1166          |      | 1166          |         | 1166          |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/ 0 TO 12/31/ 0

OCTOBER

10.0 METERS LEVEL

| HOUR          | TEMPERATURE (DEG C) |      | DEW POINT (DEG C) |      | RELATIVE HUM (%) |      | ABSOLUTE HUM (GM/M3) |      | WET BULB (DEG C) |      |
|---------------|---------------------|------|-------------------|------|------------------|------|----------------------|------|------------------|------|
|               | NUMBER OBS          |      | NUMBER OBS        |      | NUMBER OBS       |      | NUMBER OBS           |      | NUMBER OBS       |      |
| 1             | 29.                 | 12.8 | 29.               | 6.6  | 29.              | 67.4 | 29.                  | 8.1  | 29.              | 9.8  |
| 2             | 28.                 | 12.4 | 28.               | 6.3  | 28.              | 67.6 | 28.                  | 7.9  | 28.              | 9.5  |
| 3             | 29.                 | 11.9 | 29.               | 6.2  | 29.              | 69.4 | 29.                  | 7.8  | 29.              | 9.1  |
| 4             | 29.                 | 11.7 | 29.               | 6.3  | 29.              | 70.7 | 29.                  | 7.9  | 29.              | 9.1  |
| 5             | 29.                 | 11.4 | 29.               | 6.3  | 29.              | 71.7 | 29.                  | 7.8  | 29.              | 8.9  |
| 6             | 29.                 | 11.2 | 29.               | 6.3  | 29.              | 72.7 | 29.                  | 7.9  | 29.              | 8.8  |
| 7             | 29.                 | 10.9 | 29.               | 6.2  | 29.              | 73.4 | 29.                  | 7.9  | 29.              | 8.7  |
| 8             | 29.                 | 11.5 | 29.               | 6.4  | 29.              | 72.1 | 29.                  | 7.9  | 29.              | 9.0  |
| 9             | 29.                 | 13.1 | 29.               | 7.0  | 29.              | 67.7 | 29.                  | 8.2  | 29.              | 10.2 |
| 10            | 29.                 | 14.8 | 29.               | 7.4  | 29.              | 63.1 | 29.                  | 8.4  | 29.              | 11.1 |
| 11            | 29.                 | 16.3 | 29.               | 7.5  | 29.              | 58.2 | 29.                  | 8.5  | 29.              | 11.9 |
| 12            | 29.                 | 17.6 | 29.               | 7.5  | 29.              | 54.2 | 29.                  | 8.5  | 29.              | 12.5 |
| 13            | 29.                 | 18.7 | 28.               | 7.2  | 28.              | 50.5 | 28.                  | 8.4  | 28.              | 12.8 |
| 14            | 29.                 | 19.5 | 28.               | 6.9  | 28.              | 47.4 | 28.                  | 8.2  | 28.              | 13.0 |
| 15            | 28.                 | 20.1 | 28.               | 7.0  | 28.              | 45.7 | 28.                  | 8.2  | 28.              | 13.3 |
| 16            | 28.                 | 20.2 | 28.               | 6.9  | 28.              | 45.1 | 28.                  | 8.1  | 28.              | 13.3 |
| 17            | 29.                 | 19.5 | 29.               | 6.8  | 29.              | 46.9 | 29.                  | 8.1  | 29.              | 13.0 |
| 18            | 29.                 | 18.3 | 29.               | 7.0  | 29.              | 50.5 | 29.                  | 8.2  | 29.              | 12.6 |
| 19            | 29.                 | 16.9 | 29.               | 7.2  | 29.              | 55.0 | 29.                  | 8.3  | 29.              | 12.0 |
| 20            | 29.                 | 15.9 | 29.               | 7.1  | 29.              | 58.1 | 29.                  | 8.3  | 29.              | 11.5 |
| 21            | 29.                 | 15.1 | 29.               | 7.1  | 29.              | 60.5 | 29.                  | 8.3  | 29.              | 11.2 |
| 22            | 29.                 | 14.3 | 29.               | 7.1  | 29.              | 63.5 | 29.                  | 8.4  | 29.              | 10.8 |
| 23            | 29.                 | 13.7 | 29.               | 7.0  | 29.              | 65.2 | 29.                  | 8.3  | 29.              | 10.5 |
| 24            | 29.                 | 13.2 | 29.               | 7.1  | 29.              | 67.3 | 29.                  | 8.3  | 29.              | 10.2 |
| HOURLY MEAN   |                     | 15.0 |                   | 6.9  |                  | 61.1 |                      | 8.2  |                  | 10.9 |
| AVG DAILY MAX |                     | 20.3 |                   | 9.3  |                  | 76.1 |                      | 9.4  |                  | 13.6 |
| AVG DAILY MIN |                     | 10.3 |                   | 4.5  |                  | 45.2 |                      | 6.9  |                  | 7.9  |
| ABSOLUTE MAX  |                     | 31.1 |                   | 17.3 |                  | 85.0 |                      | 14.5 |                  | 19.8 |
| ABSOLUTE MIN  |                     | -3.9 |                   | -9.2 |                  | 19.0 |                      | 2.4  |                  | -4.8 |
| TOTAL OBS     | 693                 |      | 691               |      | 691              |      | 691                  |      | 691              |      |

PROGRAM: WETTEMP  
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/ 0 TO 12/31/ 0

NOVEMBER

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 30.           | 0.2     | 30.           | -4.2    | 30.           | 72.7 | 30.           | 3.9     | 30.           | -1.4    |
| 2             | 30.           | 0.0     | 30.           | -4.2    | 30.           | 73.7 | 30.           | 3.9     | 30.           | -1.6    |
| 3             | 30.           | -0.3    | 30.           | -4.4    | 30.           | 74.4 | 30.           | 3.9     | 30.           | -1.8    |
| 4             | 30.           | -0.6    | 30.           | -4.4    | 30.           | 75.6 | 30.           | 3.9     | 30.           | -2.0    |
| 5             | 30.           | -1.0    | 30.           | -4.6    | 30.           | 76.8 | 30.           | 3.8     | 30.           | -2.3    |
| 6             | 30.           | -1.2    | 30.           | -4.8    | 30.           | 76.8 | 30.           | 3.8     | 30.           | -2.4    |
| 7             | 30.           | -1.3    | 30.           | -4.9    | 30.           | 76.6 | 30.           | 3.8     | 30.           | -2.5    |
| 8             | 30.           | -1.2    | 30.           | -4.9    | 30.           | 76.2 | 30.           | 3.8     | 30.           | -2.5    |
| 9             | 30.           | -0.6    | 30.           | -4.7    | 30.           | 73.9 | 30.           | 3.8     | 30.           | -2.1    |
| 10            | 30.           | 0.8     | 30.           | -4.4    | 30.           | 69.1 | 30.           | 3.9     | 30.           | -1.1    |
| 11            | 30.           | 2.3     | 30.           | -4.2    | 30.           | 63.5 | 30.           | 3.9     | 30.           | -0.1    |
| 12            | 30.           | 3.3     | 30.           | -4.1    | 30.           | 59.9 | 30.           | 3.9     | 30.           | 0.6     |
| 13            | 30.           | 4.1     | 30.           | -4.2    | 30.           | 57.1 | 30.           | 3.8     | 30.           | 1.0     |
| 14            | 30.           | 4.7     | 30.           | -4.2    | 30.           | 54.9 | 30.           | 3.8     | 30.           | 1.3     |
| 15            | 30.           | 5.1     | 30.           | -4.2    | 30.           | 53.6 | 30.           | 3.8     | 30.           | 1.6     |
| 16            | 30.           | 5.2     | 30.           | -4.1    | 30.           | 53.4 | 30.           | 3.8     | 30.           | 1.7     |
| 17            | 30.           | 4.9     | 30.           | -4.0    | 30.           | 54.6 | 30.           | 3.8     | 30.           | 1.5     |
| 18            | 30.           | 3.8     | 30.           | -4.0    | 30.           | 58.0 | 30.           | 3.8     | 30.           | 0.9     |
| 19            | 30.           | 3.0     | 30.           | -4.2    | 30.           | 60.2 | 30.           | 3.8     | 30.           | 0.3     |
| 20            | 30.           | 2.3     | 30.           | -4.4    | 30.           | 62.2 | 30.           | 3.7     | 30.           | -0.2    |
| 21            | 30.           | 1.6     | 30.           | -4.3    | 30.           | 65.8 | 30.           | 3.7     | 30.           | -0.6    |
| 22            | 30.           | 0.9     | 30.           | -4.4    | 30.           | 68.5 | 30.           | 3.7     | 30.           | -1.0    |
| 23            | 30.           | 0.5     | 30.           | -4.5    | 30.           | 69.5 | 30.           | 3.7     | 30.           | -1.3    |
| 24            | 30.           | 0.0     | 30.           | -4.7    | 30.           | 71.3 | 30.           | 3.6     | 30.           | -1.7    |
| HOURLY MEAN   |               | 1.5     |               | -4.4    |               | 66.6 |               | 3.8     |               | -0.7    |
| AVG DAILY MAX |               | 6.1     |               | -1.7    |               | 80.2 |               | 4.7     |               | 2.6     |
| AVG DAILY MIN |               | -3.2    |               | -7.2    |               | 51.4 |               | 3.0     |               | -4.4    |
| ABSOLUTE MAX  |               | 20.7    |               | 16.7    |               | 87.1 |               | 14.0    |               | 18.2    |
| ABSOLUTE MIN  |               | -10.9   |               | -14.8   |               | 27.1 |               | 1.6     |               | -11.6   |
| TOTAL OBS     | 720           |         | 720           |         | 720           |      | 720           |         | 720           |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 2000

MONTHLY HOUR AVERAGES FOR THE PERIOD 10/ 1/ 0 TO 12/31/ 0

DECEMBER

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 31.           | -8.5    | 31.           | -12.9   | 31.           | 70.8 | 31.           | 2.1     | 31.           | -9.6    |
| 2             | 31.           | -8.7    | 31.           | -13.0   | 31.           | 71.5 | 31.           | 2.0     | 31.           | -9.8    |
| 3             | 31.           | -9.0    | 31.           | -13.5   | 31.           | 71.2 | 31.           | 2.0     | 31.           | -10.1   |
| 4             | 31.           | -9.2    | 31.           | -13.4   | 31.           | 72.0 | 31.           | 2.0     | 31.           | -10.2   |
| 5             | 31.           | -9.3    | 31.           | -13.4   | 31.           | 72.5 | 31.           | 2.0     | 31.           | -10.3   |
| 6             | 31.           | -9.6    | 31.           | -13.5   | 31.           | 73.6 | 31.           | 1.9     | 31.           | -10.6   |
| 7             | 31.           | -10.0   | 31.           | -13.8   | 31.           | 73.6 | 31.           | 1.9     | 31.           | -10.9   |
| 8             | 31.           | -10.2   | 31.           | -14.1   | 31.           | 73.2 | 31.           | 1.9     | 31.           | -11.1   |
| 9             | 31.           | -10.0   | 31.           | -14.0   | 31.           | 73.2 | 31.           | 1.9     | 31.           | -11.0   |
| 10            | 31.           | -9.2    | 31.           | -13.6   | 31.           | 70.9 | 31.           | 1.9     | 31.           | -10.3   |
| 11            | 31.           | -8.3    | 31.           | -13.3   | 31.           | 68.2 | 31.           | 2.0     | 31.           | -9.6    |
| 12            | 31.           | -7.5    | 31.           | -13.0   | 31.           | 65.5 | 31.           | 2.0     | 31.           | -8.9    |
| 13            | 31.           | -6.8    | 31.           | -12.8   | 31.           | 63.4 | 31.           | 2.1     | 31.           | -8.4    |
| 14            | 31.           | -6.1    | 31.           | -12.5   | 31.           | 61.9 | 31.           | 2.1     | 31.           | -7.9    |
| 15            | 31.           | -5.7    | 31.           | -12.3   | 31.           | 60.7 | 31.           | 2.1     | 31.           | -7.5    |
| 16            | 31.           | -5.5    | 31.           | -12.4   | 31.           | 59.6 | 31.           | 2.1     | 31.           | -7.5    |
| 17            | 31.           | -5.9    | 31.           | -12.5   | 31.           | 60.9 | 31.           | 2.1     | 31.           | -7.7    |
| 18            | 31.           | -6.6    | 31.           | -12.8   | 31.           | 62.6 | 31.           | 2.1     | 31.           | -8.3    |
| 19            | 31.           | -7.3    | 31.           | -13.0   | 31.           | 64.6 | 31.           | 2.1     | 31.           | -8.8    |
| 20            | 31.           | -7.7    | 31.           | -13.2   | 31.           | 65.9 | 31.           | 2.0     | 31.           | -9.1    |
| 21            | 31.           | -8.2    | 31.           | -13.3   | 31.           | 67.4 | 31.           | 2.0     | 31.           | -9.5    |
| 22            | 31.           | -8.4    | 31.           | -13.5   | 31.           | 67.5 | 31.           | 2.0     | 31.           | -9.7    |
| 23            | 31.           | -8.6    | 31.           | -13.4   | 31.           | 68.8 | 31.           | 2.0     | 31.           | -9.8    |
| 24            | 31.           | -8.9    | 31.           | -13.5   | 31.           | 69.9 | 31.           | 2.0     | 31.           | -10.0   |
| HOURLY MEAN   |               | -8.1    |               | -13.2   |               | 67.9 |               | 2.0     |               | -9.4    |
| AVG DAILY MAX |               | -3.7    |               | -9.3    |               | 78.4 |               | 2.7     |               | -5.5    |
| AVG DAILY MIN |               | -12.5   |               | -16.8   |               | 57.2 |               | 1.5     |               | -13.3   |
| ABSOLUTE MAX  |               | 15.5    |               | 0.4     |               | 91.2 |               | 4.9     |               | 8.0     |
| ABSOLUTE MIN  |               | -21.7   |               | -25.4   |               | 31.8 |               | 0.7     |               | -22.0   |
| TOTAL OBS     | 744           |         | 744           |         | 744           |      | 744           |         | 744           |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 2000

OCT-DEC HOUR AVERAGES FOR THE PERIOD 10/ 1/ 0 TO 12/31/ 0

| HOUR          | TEMPERATURE |         | DEW POINT  |         | RELATIVE HUM |      | ABSOLUTE HUM |         | WET BULB   |         |
|---------------|-------------|---------|------------|---------|--------------|------|--------------|---------|------------|---------|
|               | NUMBER OBS  | (DEG C) | NUMBER OBS | (DEG C) | NUMBER OBS   | (%)  | NUMBER OBS   | (GM/M3) | NUMBER OBS | (DEG C) |
| 1             | 90.         | 1.3     | 90.        | -3.7    | 90.          | 70.3 | 90.          | 4.6     | 90.        | -0.6    |
| 2             | 89.         | 0.9     | 89.        | -4.0    | 89.          | 71.0 | 89.          | 4.5     | 89.        | -1.0    |
| 3             | 90.         | 0.6     | 90.        | -4.1    | 90.          | 71.7 | 90.          | 4.5     | 90.        | -1.1    |
| 4             | 90.         | 0.4     | 90.        | -4.1    | 90.          | 72.8 | 90.          | 4.5     | 90.        | -1.3    |
| 5             | 90.         | 0.1     | 90.        | -4.2    | 90.          | 73.7 | 90.          | 4.5     | 90.        | -1.5    |
| 6             | 90.         | -0.1    | 90.        | -4.2    | 90.          | 74.4 | 90.          | 4.5     | 90.        | -1.6    |
| 7             | 90.         | -0.3    | 90.        | -4.4    | 90.          | 74.6 | 90.          | 4.4     | 90.        | -1.8    |
| 8             | 90.         | -0.2    | 90.        | -4.4    | 90.          | 73.8 | 90.          | 4.5     | 90.        | -1.8    |
| 9             | 90.         | 0.6     | 90.        | -4.1    | 90.          | 71.6 | 90.          | 4.6     | 90.        | -1.2    |
| 10            | 90.         | 1.8     | 90.        | -3.8    | 90.          | 67.8 | 90.          | 4.7     | 90.        | -0.3    |
| 11            | 90.         | 3.2     | 90.        | -3.5    | 90.          | 63.4 | 90.          | 4.7     | 90.        | 0.5     |
| 12            | 90.         | 4.2     | 90.        | -3.4    | 90.          | 60.0 | 90.          | 4.7     | 90.        | 1.1     |
| 13            | 90.         | 5.1     | 89.        | -3.6    | 89.          | 57.2 | 89.          | 4.6     | 89.        | 1.4     |
| 14            | 90.         | 5.7     | 89.        | -3.6    | 89.          | 55.0 | 89.          | 4.6     | 89.        | 1.8     |
| 15            | 89.         | 6.1     | 89.        | -3.5    | 89.          | 53.6 | 89.          | 4.6     | 89.        | 2.1     |
| 16            | 89.         | 6.2     | 89.        | -3.5    | 89.          | 52.9 | 89.          | 4.6     | 89.        | 2.2     |
| 17            | 90.         | 5.9     | 90.        | -3.5    | 90.          | 54.3 | 90.          | 4.6     | 90.        | 2.0     |
| 18            | 90.         | 4.9     | 90.        | -3.5    | 90.          | 57.1 | 90.          | 4.7     | 90.        | 1.5     |
| 19            | 90.         | 3.9     | 90.        | -3.6    | 90.          | 60.1 | 90.          | 4.7     | 90.        | 0.9     |
| 20            | 90.         | 3.2     | 90.        | -3.7    | 90.          | 62.2 | 90.          | 4.6     | 90.        | 0.5     |
| 21            | 90.         | 2.6     | 90.        | -3.7    | 90.          | 64.7 | 90.          | 4.6     | 90.        | 0.1     |
| 22            | 90.         | 2.0     | 90.        | -3.8    | 90.          | 66.6 | 90.          | 4.6     | 90.        | -0.2    |
| 23            | 90.         | 1.6     | 90.        | -3.9    | 90.          | 67.9 | 90.          | 4.6     | 90.        | -0.5    |
| 24            | 90.         | 1.2     | 90.        | -3.9    | 90.          | 69.5 | 90.          | 4.6     | 90.        | -0.7    |
| HOURLY MEAN   |             | 2.5     |            | -3.8    |              | 65.3 |              | 4.6     |            | 0.0     |
| AVG DAILY MAX |             | 7.5     |            | -0.7    |              | 78.2 |              | 5.5     |            | 3.5     |
| AVG DAILY MIN |             | -1.9    |            | -6.6    |              | 51.3 |              | 3.8     |            | -3.4    |
| ABSOLUTE MAX  |             | 31.1    |            | 17.3    |              | 91.2 |              | 14.5    |            | 19.8    |
| ABSOLUTE MIN  |             | -21.7   |            | -25.4   |              | 19.0 |              | 0.7     |            | -22.0   |
| TOTAL OBS     | 2157        |         | 2155       |         | 2155         |      | 2155         |         | 2155       |         |

PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-DEC 2000

JUL-DEC HOUR AVERAGES FOR THE PERIOD 7/ 1/ 0 TO 12/31/ 0

| 10.0 METERS LEVEL |        | TEMPERATURE |        | DEW POINT |        | RELATIVE HUM |        | ABSOLUTE HUM |        | WET BULB |     |
|-------------------|--------|-------------|--------|-----------|--------|--------------|--------|--------------|--------|----------|-----|
| ---               | ---    | ---         | ---    | ---       | ---    | ---          | ---    | ---          | ---    | ---      | --- |
| HOUR              | NUMBER | (DEG C)     | NUMBER | (DEG C)   | NUMBER | (%)          | NUMBER | (GM/M3)      | NUMBER | (DEG C)  | --- |
| ---               | OBS    | ---         | OBS    | ---       | OBS    | ---          | OBS    | ---          | OBS    | ---      | OBS |
| 1                 | 182.   | 11.6        | 138.   | 2.2       | 138.   | 68.8         | 138.   | 7.2          | 138.   | 5.2      |     |
| 2                 | 181.   | 11.2        | 137.   | 2.0       | 137.   | 69.7         | 137.   | 7.1          | 137.   | 5.0      |     |
| 3                 | 182.   | 10.8        | 139.   | 1.9       | 139.   | 70.8         | 139.   | 7.1          | 139.   | 4.8      |     |
| 4                 | 182.   | 10.4        | 141.   | 2.1       | 141.   | 72.1         | 141.   | 7.2          | 141.   | 4.8      |     |
| 5                 | 182.   | 10.1        | 141.   | 2.1       | 141.   | 73.3         | 141.   | 7.2          | 141.   | 4.6      |     |
| 6                 | 182.   | 9.8         | 141.   | 2.0       | 141.   | 74.2         | 141.   | 7.1          | 141.   | 4.4      |     |
| 7                 | 182.   | 9.8         | 143.   | 2.1       | 143.   | 74.5         | 143.   | 7.2          | 143.   | 4.5      |     |
| 8                 | 182.   | 10.4        | 143.   | 2.3       | 143.   | 73.4         | 143.   | 7.3          | 143.   | 4.8      |     |
| 9                 | 182.   | 11.6        | 142.   | 2.4       | 142.   | 69.5         | 142.   | 7.3          | 142.   | 5.3      |     |
| 10                | 181.   | 13.0        | 141.   | 2.4       | 140.   | 64.6         | 140.   | 7.2          | 140.   | 5.9      |     |
| 11                | 181.   | 14.4        | 138.   | 2.3       | 137.   | 60.0         | 137.   | 7.1          | 137.   | 6.4      |     |
| 12                | 181.   | 15.5        | 138.   | 2.4       | 138.   | 56.6         | 138.   | 7.2          | 138.   | 7.1      |     |
| 13                | 180.   | 16.3        | 137.   | 2.3       | 137.   | 53.9         | 137.   | 7.2          | 137.   | 7.4      |     |
| 14                | 180.   | 17.0        | 136.   | 2.2       | 136.   | 51.6         | 136.   | 7.0          | 136.   | 7.6      |     |
| 15                | 178.   | 17.4        | 134.   | 1.9       | 134.   | 49.8         | 134.   | 6.9          | 134.   | 7.7      |     |
| 16                | 180.   | 17.7        | 135.   | 2.0       | 135.   | 49.1         | 135.   | 6.9          | 135.   | 7.9      |     |
| 17                | 182.   | 17.4        | 137.   | 2.2       | 137.   | 50.3         | 137.   | 7.0          | 137.   | 7.8      |     |
| 18                | 182.   | 16.6        | 137.   | 2.2       | 137.   | 53.2         | 137.   | 7.1          | 137.   | 7.4      |     |
| 19                | 182.   | 15.3        | 137.   | 2.3       | 137.   | 57.3         | 137.   | 7.3          | 137.   | 6.9      |     |
| 20                | 182.   | 14.2        | 137.   | 2.2       | 137.   | 60.1         | 137.   | 7.2          | 137.   | 6.4      |     |
| 21                | 182.   | 13.3        | 138.   | 2.2       | 138.   | 62.8         | 138.   | 7.2          | 138.   | 6.1      |     |
| 22                | 182.   | 12.7        | 138.   | 2.1       | 138.   | 64.6         | 138.   | 7.1          | 138.   | 5.7      |     |
| 23                | 182.   | 12.1        | 138.   | 2.0       | 138.   | 66.1         | 138.   | 7.1          | 138.   | 5.4      |     |
| 24                | 137.   | 7.9         | 138.   | 2.0       | 137.   | 67.5         | 137.   | 7.1          | 137.   | 5.1      |     |
| HOURLY MEAN       |        | 13.2        |        | 2.2       |        | 63.2         |        | 7.1          |        | 6.0      |     |
| AVG DAILY MAX     |        | 18.5        |        | 5.7       |        | 78.2         |        | 8.8          |        | 9.7      |     |
| AVG DAILY MIN     |        | 8.5         |        | 0.2       |        | 48.6         |        | 6.3          |        | 3.5      |     |
| ABSOLUTE MAX      |        | 39.9        |        | 23.6      |        | 93.5         |        | 20.9         |        | 26.8     |     |
| ABSOLUTE MIN      |        | -21.7       |        | -25.4     |        | 19.0         |        | 0.7          |        | -22.0    |     |
| TOTAL OBS         | 4309   |             | 3324   |           | 3321   |              | 3321   |              | 3321   |          |     |



PROGRAM: WETTEMP  
 VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-DEC 2000

JAN-DEC HOUR AVERAGES FOR THE PERIOD 1/ 1/ 0 TO 12/31/ 0

10.0 METERS LEVEL

| HOUR          | TEMPERATURE   |         | DEW POINT     |         | RELATIVE HUM  |      | ABSOLUTE HUM  |         | WET BULB      |         |
|---------------|---------------|---------|---------------|---------|---------------|------|---------------|---------|---------------|---------|
|               | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (DEG C) | NUMBER<br>OBS | (%)  | NUMBER<br>OBS | (GM/M3) | NUMBER<br>OBS | (DEG C) |
| 1             | 357.          | 10.3    | 299.          | 1.5     | 295.          | 66.1 | 295.          | 6.5     | 295.          | 4.9     |
| 2             | 355.          | 9.9     | 299.          | 1.4     | 293.          | 67.3 | 293.          | 6.5     | 293.          | 4.7     |
| 3             | 358.          | 9.4     | 304.          | 1.4     | 298.          | 68.3 | 298.          | 6.4     | 298.          | 4.5     |
| 4             | 358.          | 9.1     | 311.          | 1.5     | 305.          | 69.3 | 305.          | 6.5     | 305.          | 4.6     |
| 5             | 358.          | 8.7     | 313.          | 1.5     | 307.          | 70.3 | 307.          | 6.5     | 307.          | 4.4     |
| 6             | 358.          | 8.5     | 314.          | 1.5     | 308.          | 71.1 | 308.          | 6.5     | 308.          | 4.3     |
| 7             | 359.          | 8.5     | 314.          | 1.5     | 309.          | 71.3 | 309.          | 6.5     | 309.          | 4.3     |
| 8             | 360.          | 9.1     | 315.          | 1.8     | 311.          | 69.9 | 311.          | 6.7     | 311.          | 4.7     |
| 9             | 359.          | 10.3    | 312.          | 1.9     | 308.          | 66.2 | 308.          | 6.7     | 308.          | 5.3     |
| 10            | 359.          | 11.8    | 308.          | 2.0     | 304.          | 61.5 | 304.          | 6.6     | 304.          | 5.9     |
| 11            | 360.          | 13.2    | 302.          | 1.9     | 299.          | 57.2 | 299.          | 6.5     | 299.          | 6.4     |
| 12            | 361.          | 14.3    | 297.          | 1.7     | 296.          | 53.7 | 296.          | 6.4     | 296.          | 6.9     |
| 13            | 360.          | 15.2    | 295.          | 1.6     | 294.          | 50.9 | 294.          | 6.4     | 294.          | 7.2     |
| 14            | 360.          | 15.9    | 291.          | 1.4     | 290.          | 48.6 | 290.          | 6.2     | 290.          | 7.4     |
| 15            | 358.          | 16.4    | 288.          | 1.1     | 287.          | 47.1 | 287.          | 6.1     | 287.          | 7.5     |
| 16            | 360.          | 16.6    | 289.          | 1.1     | 288.          | 46.5 | 288.          | 6.1     | 288.          | 7.6     |
| 17            | 363.          | 16.5    | 291.          | 1.2     | 291.          | 47.2 | 291.          | 6.2     | 291.          | 7.6     |
| 18            | 363.          | 15.8    | 290.          | 1.2     | 290.          | 49.5 | 290.          | 6.3     | 290.          | 7.2     |
| 19            | 363.          | 14.7    | 291.          | 1.3     | 291.          | 52.7 | 291.          | 6.4     | 291.          | 6.8     |
| 20            | 364.          | 13.5    | 293.          | 1.4     | 293.          | 55.6 | 293.          | 6.4     | 293.          | 6.3     |
| 21            | 363.          | 12.5    | 295.          | 1.5     | 294.          | 58.8 | 294.          | 6.5     | 294.          | 6.0     |
| 22            | 361.          | 11.8    | 296.          | 1.5     | 293.          | 61.3 | 293.          | 6.5     | 293.          | 5.6     |
| 23            | 361.          | 11.2    | 297.          | 1.5     | 294.          | 63.1 | 294.          | 6.5     | 294.          | 5.4     |
| 24            | 292.          | 7.7     | 295.          | 1.3     | 290.          | 64.8 | 290.          | 6.4     | 290.          | 4.9     |
| HOURLY MEAN   |               | 12.2    |               | 1.5     |               | 60.1 |               | 6.4     |               | 5.8     |
| AVG DAILY MAX |               | 17.5    |               | 5.2     |               | 75.2 |               | 8.1     |               | 9.6     |
| AVG DAILY MIN |               | 7.2     |               | -0.4    |               | 45.1 |               | 5.7     |               | 3.4     |
| ABSOLUTE MAX  |               | 39.9    |               | 23.6    |               | 93.5 |               | 20.9    |               | 26.8    |
| ABSOLUTE MIN  |               | -21.7   |               | -25.4   |               | 19.0 |               | 0.7     |               | -22.0   |
| TOTAL OBS     | 8570          |         | 7199          |         | 7128          |      | 7128          |         | 7128          |         |

## **Wind Direction Frequencies**

### **10-Meter Level**

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JANUARY

WIND DIRECTION

| HR. OF DAY | N    | NNE  | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW  | W   | WNW  | NW   | NNW  | CALM | TOTAL |
|------------|------|------|-----|-----|-----|------|------|------|------|------|------|------|-----|------|------|------|------|-------|
| 1          | 12.9 | 3.2  | 3.2 | 3.2 | 3.2 | 3.2  | 6.5  | 6.5  | 22.6 | 0.0  | 0.0  | 6.5  | 3.2 | 3.2  | 12.9 | 9.7  | 0.0  | 100.  |
| 2          | 6.5  | 3.2  | 3.2 | 6.5 | 3.2 | 0.0  | 12.9 | 6.5  | 16.1 | 6.5  | 0.0  | 3.2  | 0.0 | 6.5  | 12.9 | 12.9 | 0.0  | 100.  |
| 3          | 16.1 | 3.2  | 3.2 | 6.5 | 6.5 | 3.2  | 6.5  | 9.7  | 12.9 | 3.2  | 0.0  | 6.5  | 3.2 | 0.0  | 16.1 | 3.2  | 0.0  | 100.  |
| 4          | 6.5  | 3.2  | 0.0 | 9.7 | 6.5 | 6.5  | 6.5  | 6.5  | 19.4 | 6.5  | 0.0  | 3.2  | 0.0 | 3.2  | 16.1 | 6.5  | 0.0  | 100.  |
| 5          | 9.7  | 0.0  | 6.5 | 0.0 | 6.5 | 3.2  | 9.7  | 16.1 | 9.7  | 0.0  | 3.2  | 3.2  | 3.2 | 9.7  | 9.7  | 9.7  | 0.0  | 100.  |
| 6          | 9.7  | 9.7  | 0.0 | 3.2 | 3.2 | 6.5  | 3.2  | 16.1 | 9.7  | 12.9 | 0.0  | 6.5  | 0.0 | 6.5  | 6.5  | 6.5  | 0.0  | 100.  |
| 7          | 9.7  | 9.7  | 3.2 | 0.0 | 6.5 | 3.2  | 0.0  | 12.9 | 19.4 | 3.2  | 3.2  | 6.5  | 3.2 | 9.7  | 6.5  | 3.2  | 0.0  | 100.  |
| 8          | 9.7  | 0.0  | 6.5 | 3.2 | 6.5 | 6.5  | 0.0  | 16.1 | 12.9 | 6.5  | 0.0  | 6.5  | 0.0 | 6.5  | 16.1 | 3.2  | 0.0  | 100.  |
| 9          | 3.2  | 6.5  | 3.2 | 3.2 | 3.2 | 9.7  | 0.0  | 12.9 | 9.7  | 9.7  | 3.2  | 3.2  | 3.2 | 6.5  | 12.9 | 9.7  | 0.0  | 100.  |
| 10         | 9.7  | 3.2  | 3.2 | 0.0 | 9.7 | 6.5  | 3.2  | 9.7  | 9.7  | 9.7  | 3.2  | 3.2  | 3.2 | 9.7  | 6.5  | 9.7  | 0.0  | 100.  |
| 11         | 0.0  | 3.2  | 0.0 | 0.0 | 6.5 | 12.9 | 3.2  | 6.5  | 9.7  | 9.7  | 6.5  | 3.2  | 3.2 | 9.7  | 9.7  | 16.1 | 0.0  | 100.  |
| 12         | 6.5  | 12.9 | 0.0 | 0.0 | 0.0 | 9.7  | 6.5  | 6.5  | 16.1 | 6.5  | 3.2  | 6.5  | 3.2 | 9.7  | 6.5  | 6.5  | 0.0  | 100.  |
| 13         | 3.2  | 9.7  | 3.2 | 0.0 | 3.2 | 6.5  | 3.2  | 3.2  | 16.1 | 6.5  | 3.2  | 6.5  | 6.5 | 12.9 | 6.5  | 9.7  | 0.0  | 100.  |
| 14         | 6.5  | 3.2  | 3.2 | 0.0 | 3.2 | 3.2  | 6.5  | 6.5  | 3.2  | 19.4 | 3.2  | 3.2  | 3.2 | 6.5  | 12.9 | 16.1 | 0.0  | 100.  |
| 15         | 6.5  | 3.2  | 3.2 | 0.0 | 3.2 | 3.2  | 9.7  | 3.2  | 0.0  | 22.6 | 3.2  | 6.5  | 0.0 | 9.7  | 16.1 | 9.7  | 0.0  | 100.  |
| 16         | 0.0  | 6.5  | 3.2 | 3.2 | 3.2 | 6.5  | 9.7  | 0.0  | 6.5  | 12.9 | 6.5  | 6.5  | 6.5 | 3.2  | 12.9 | 12.9 | 0.0  | 100.  |
| 17         | 3.2  | 6.5  | 3.2 | 3.2 | 3.2 | 3.2  | 3.2  | 6.5  | 0.0  | 16.1 | 9.7  | 9.7  | 0.0 | 3.2  | 12.9 | 16.1 | 0.0  | 100.  |
| 18         | 6.5  | 6.5  | 0.0 | 3.2 | 3.2 | 0.0  | 6.5  | 6.5  | 3.2  | 9.7  | 12.9 | 12.9 | 0.0 | 3.2  | 6.5  | 19.4 | 0.0  | 100.  |
| 19         | 0.0  | 3.2  | 3.2 | 3.2 | 3.2 | 3.2  | 6.5  | 0.0  | 12.9 | 6.5  | 16.1 | 0.0  | 9.7 | 0.0  | 9.7  | 22.6 | 0.0  | 100.  |
| 20         | 6.5  | 0.0  | 3.2 | 9.7 | 3.2 | 0.0  | 6.5  | 3.2  | 16.1 | 12.9 | 3.2  | 3.2  | 6.5 | 3.2  | 9.7  | 12.9 | 0.0  | 100.  |
| 21         | 9.7  | 3.2  | 3.2 | 6.5 | 3.2 | 3.2  | 6.5  | 9.7  | 12.9 | 0.0  | 6.5  | 6.5  | 6.5 | 3.2  | 6.5  | 12.9 | 0.0  | 100.  |
| 22         | 6.5  | 6.5  | 3.2 | 6.5 | 3.2 | 0.0  | 3.2  | 6.5  | 22.6 | 0.0  | 3.2  | 6.5  | 3.2 | 3.2  | 6.5  | 19.4 | 0.0  | 100.  |
| 23         | 3.2  | 6.5  | 3.2 | 0.0 | 3.2 | 6.5  | 6.5  | 12.9 | 9.7  | 0.0  | 6.5  | 3.2  | 3.2 | 3.2  | 12.9 | 19.4 | 0.0  | 100.  |
| 24         | 9.7  | 6.5  | 3.2 | 0.0 | 3.2 | 3.2  | 6.5  | 22.6 | 9.7  | 3.2  | 0.0  | 3.2  | 3.2 | 0.0  | 16.1 | 9.7  | 0.0  | 100.  |
| ALL        | 6.7  | 5.0  | 2.8 | 3.0 | 4.2 | 4.6  | 5.5  | 8.6  | 11.7 | 7.7  | 4.0  | 5.2  | 3.1 | 5.5  | 10.9 | 11.6 | 0.0  | 100.  |

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

FEBRUARY

| HR. OF DAY | WIND DIRECTION |     |     |     |     |     |      |      |      |      |      |      |     |      |      |      | CALM | TOTAL |      |
|------------|----------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|------|------|------|------|-------|------|
|            | N              | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW   | WSW  | W   | WNW  | NW   | NNW  |      |       |      |
| 1          | 7.4            | 3.7 | 3.7 | 0.0 | 0.0 | 0.0 | 14.8 | 11.1 | 14.8 | 11.1 | 7.4  | 0.0  | 0.0 | 14.8 | 0.0  | 11.1 | 0.0  | 100.  |      |
| 2          | 11.1           | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 14.8 | 11.1 | 18.5 | 3.7  | 3.7  | 7.4  | 0.0 | 7.4  | 7.4  | 11.1 | 0.0  | 100.  |      |
| 3          | 11.1           | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 14.8 | 11.1 | 18.5 | 3.7  | 3.7  | 3.7  | 0.0 | 7.4  | 7.4  | 7.4  | 0.0  | 100.  |      |
| 4          | 7.4            | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 14.8 | 18.5 | 22.2 | 3.7  | 0.0  | 0.0  | 3.7 | 7.4  | 3.7  | 11.1 | 3.7  | 100.  |      |
| 5          | 14.8           | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 18.5 | 11.1 | 7.4  | 0.0  | 3.7  | 7.4  | 0.0 | 3.7  | 3.7  | 14.8 | 0.0  | 100.  |      |
| 6          | 7.4            | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 18.5 | 14.8 | 14.8 | 7.4  | 3.7  | 7.4  | 0.0 | 3.7  | 3.7  | 11.1 | 0.0  | 100.  |      |
| 7          | 7.4            | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 22.2 | 22.2 | 3.7  | 3.7  | 0.0  | 7.4  | 0.0 | 7.4  | 3.7  | 11.1 | 0.0  | 100.  |      |
| 8          | 7.4            | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 14.8 | 22.2 | 14.8 | 3.7  | 3.7  | 7.4  | 0.0 | 0.0  | 7.7  | 7.7  | 0.0  | 100.  |      |
| 9          | 7.7            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.4 | 19.2 | 23.1 | 3.8  | 7.7  | 7.7  | 0.0 | 0.0  | 7.7  | 7.7  | 0.0  | 100.  |      |
| 10         | 11.5           | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8  | 23.1 | 15.4 | 11.5 | 3.8  | 7.7  | 0.0 | 3.8  | 3.8  | 15.4 | 0.0  | 100.  |      |
| 11         | 3.8            | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8  | 23.1 | 15.4 | 15.4 | 15.4 | 3.8  | 3.8 | 0.0  | 3.8  | 19.2 | 0.0  | 100.  |      |
| 12         | 3.8            | 3.8 | 0.0 | 0.0 | 0.0 | 3.8 | 7.7  | 11.5 | 23.1 | 7.7  | 3.8  | 3.8  | 3.8 | 0.0  | 7.7  | 15.4 | 0.0  | 100.  |      |
| 13         | 0.0            | 3.8 | 0.0 | 0.0 | 0.0 | 3.8 | 3.8  | 7.7  | 15.4 | 26.9 | 0.0  | 7.7  | 0.0 | 3.8  | 7.7  | 19.2 | 0.0  | 100.  |      |
| 14         | 3.8            | 3.8 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0  | 3.8  | 19.2 | 23.1 | 0.0  | 11.5 | 0.0 | 3.8  | 7.7  | 15.4 | 0.0  | 100.  |      |
| 15         | 0.0            | 0.0 | 3.8 | 0.0 | 0.0 | 3.8 | 3.8  | 26.9 | 11.5 | 3.8  | 3.8  | 3.8  | 3.8 | 7.7  | 3.8  | 19.2 | 0.0  | 100.  |      |
| 16         | 0.0            | 0.0 | 3.8 | 0.0 | 0.0 | 3.8 | 3.8  | 23.1 | 15.4 | 0.0  | 0.0  | 3.8  | 3.8 | 7.7  | 3.8  | 23.1 | 0.0  | 100.  |      |
| 17         | 0.0            | 3.7 | 0.0 | 3.7 | 0.0 | 0.0 | 7.4  | 3.7  | 22.2 | 14.8 | 0.0  | 0.0  | 0.0 | 7.4  | 11.1 | 3.7  | 22.2 | 0.0   | 100. |
| 18         | 3.7            | 3.7 | 3.7 | 3.7 | 0.0 | 3.7 | 7.4  | 11.1 | 11.1 | 7.4  | 3.7  | 3.7  | 0.0 | 7.4  | 11.1 | 18.5 | 0.0  | 100.  |      |
| 19         | 7.4            | 3.7 | 0.0 | 3.7 | 0.0 | 7.4 | 3.7  | 11.1 | 11.1 | 11.1 | 0.0  | 0.0  | 7.4 | 3.7  | 3.7  | 25.9 | 0.0  | 100.  |      |
| 20         | 7.4            | 3.7 | 3.7 | 0.0 | 0.0 | 3.7 | 11.1 | 14.8 | 11.1 | 0.0  | 3.7  | 3.7  | 7.4 | 0.0  | 7.4  | 22.2 | 0.0  | 100.  |      |
| 21         | 3.7            | 0.0 | 3.7 | 3.7 | 0.0 | 0.0 | 3.7  | 14.8 | 18.5 | 7.4  | 3.7  | 3.7  | 0.0 | 3.7  | 14.8 | 18.5 | 0.0  | 100.  |      |
| 22         | 14.8           | 0.0 | 3.7 | 7.4 | 0.0 | 0.0 | 3.7  | 18.5 | 11.1 | 7.4  | 3.7  | 3.7  | 3.7 | 7.4  | 11.1 | 3.7  | 0.0  | 100.  |      |
| 23         | 7.4            | 7.4 | 0.0 | 0.0 | 3.7 | 0.0 | 7.4  | 14.8 | 11.1 | 7.4  | 3.7  | 3.7  | 3.7 | 3.7  | 14.8 | 11.1 | 0.0  | 100.  |      |
| 24         | 7.4            | 7.4 | 3.7 | 0.0 | 0.0 | 3.7 | 3.7  | 22.2 | 7.4  | 14.8 | 7.4  | 0.0  | 3.7 | 11.1 | 3.7  | 3.7  | 0.0  | 100.  |      |
| ALL        | 6.6            | 2.3 | 1.2 | 0.9 | 0.2 | 2.8 | 9.1  | 13.1 | 15.3 | 11.2 | 3.4  | 4.4  | 3.1 | 5.3  | 6.6  | 14.2 | 0.2  | 100.  |      |

NUMBER OF OBS = 640

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

MARCH

WIND DIRECTION

| HR. OF DAY | N    | NNE  | NE  | ENE  | E   | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  | CALM | TOTAL |      |
|------------|------|------|-----|------|-----|------|------|------|------|------|-----|-----|-----|-----|------|------|------|-------|------|
| 1          | 22.6 | 3.2  | 6.5 | 3.2  | 0.0 | 6.5  | 12.9 | 16.1 | 12.9 | 3.2  | 0.0 | 0.0 | 0.0 | 3.2 | 9.7  | 0.0  | 0.0  | 100.  |      |
| 2          | 22.6 | 3.2  | 0.0 | 3.2  | 0.0 | 3.2  | 19.4 | 9.7  | 12.9 | 6.5  | 0.0 | 0.0 | 0.0 | 3.2 | 3.2  | 9.7  | 6.5  | 0.0   | 100. |
| 3          | 25.8 | 3.2  | 3.2 | 0.0  | 3.2 | 12.9 | 9.7  | 9.7  | 3.2  | 6.5  | 0.0 | 3.2 | 0.0 | 3.2 | 6.5  | 9.7  | 0.0  | 100.  |      |
| 4          | 16.1 | 3.2  | 3.2 | 12.9 | 3.2 | 3.2  | 0.0  | 19.4 | 9.7  | 0.0  | 0.0 | 0.0 | 0.0 | 3.2 | 6.5  | 19.4 | 0.0  | 100.  |      |
| 5          | 25.8 | 3.2  | 3.2 | 3.2  | 0.0 | 6.5  | 6.5  | 22.6 | 3.2  | 0.0  | 0.0 | 0.0 | 3.2 | 3.2 | 16.1 | 3.2  | 0.0  | 100.  |      |
| 6          | 19.4 | 12.9 | 3.2 | 3.2  | 3.2 | 6.5  | 0.0  | 25.8 | 9.7  | 0.0  | 0.0 | 0.0 | 3.2 | 0.0 | 6.5  | 6.5  | 0.0  | 100.  |      |
| 7          | 16.1 | 3.2  | 6.5 | 6.5  | 0.0 | 3.2  | 9.7  | 12.9 | 19.4 | 0.0  | 0.0 | 0.0 | 3.2 | 0.0 | 12.9 | 6.5  | 0.0  | 100.  |      |
| 8          | 9.7  | 6.5  | 3.2 | 6.5  | 3.2 | 6.5  | 3.2  | 16.1 | 12.9 | 3.2  | 3.2 | 0.0 | 3.2 | 3.2 | 6.5  | 16.1 | 0.0  | 100.  |      |
| 9          | 9.7  | 6.5  | 0.0 | 6.5  | 3.2 | 12.9 | 3.2  | 0.0  | 16.1 | 12.9 | 6.5 | 0.0 | 3.2 | 0.0 | 3.2  | 6.5  | 0.0  | 100.  |      |
| 10         | 16.1 | 6.5  | 6.5 | 3.2  | 3.2 | 9.7  | 3.2  | 0.0  | 16.1 | 12.9 | 6.5 | 0.0 | 3.2 | 0.0 | 3.2  | 6.5  | 0.0  | 100.  |      |
| 11         | 12.9 | 3.2  | 6.5 | 0.0  | 9.7 | 9.7  | 3.2  | 3.2  | 19.4 | 6.5  | 3.2 | 0.0 | 0.0 | 6.5 | 0.0  | 16.1 | 0.0  | 100.  |      |
| 12         | 25.8 | 0.0  | 0.0 | 6.5  | 6.5 | 6.5  | 3.2  | 19.4 | 9.7  | 9.7  | 0.0 | 3.2 | 3.2 | 3.2 | 3.2  | 6.5  | 0.0  | 100.  |      |
| 13         | 25.8 | 0.0  | 3.2 | 6.5  | 6.5 | 6.5  | 3.2  | 6.5  | 9.7  | 9.7  | 3.2 | 3.2 | 3.2 | 3.2 | 0.0  | 9.7  | 0.0  | 100.  |      |
| 14         | 19.4 | 3.2  | 3.2 | 3.2  | 9.7 | 0.0  | 12.9 | 3.2  | 9.7  | 9.7  | 0.0 | 9.7 | 3.2 | 3.2 | 3.2  | 6.5  | 0.0  | 100.  |      |
| 15         | 16.1 | 0.0  | 3.2 | 3.2  | 9.7 | 3.2  | 12.9 | 0.0  | 9.7  | 9.7  | 0.0 | 6.5 | 0.0 | 6.5 | 6.5  | 12.9 | 0.0  | 100.  |      |
| 16         | 22.6 | 0.0  | 6.5 | 6.5  | 3.2 | 3.2  | 3.2  | 6.5  | 6.5  | 6.5  | 3.2 | 6.5 | 0.0 | 6.5 | 3.2  | 9.7  | 0.0  | 100.  |      |
| 17         | 22.6 | 6.5  | 3.2 | 9.7  | 3.2 | 0.0  | 6.5  | 6.5  | 6.5  | 6.5  | 3.2 | 6.5 | 0.0 | 3.2 | 6.5  | 9.7  | 0.0  | 100.  |      |
| 18         | 16.1 | 6.5  | 9.7 | 9.7  | 3.2 | 3.2  | 3.2  | 9.7  | 3.2  | 6.5  | 3.2 | 3.2 | 0.0 | 3.2 | 3.2  | 12.9 | 0.0  | 100.  |      |
| 19         | 25.8 | 3.2  | 6.5 | 6.5  | 3.2 | 3.2  | 3.2  | 9.7  | 3.2  | 6.5  | 3.2 | 3.2 | 6.5 | 0.0 | 12.9 | 3.2  | 0.0  | 100.  |      |
| 20         | 12.9 | 9.7  | 6.5 | 3.2  | 3.2 | 3.2  | 0.0  | 3.2  | 9.7  | 6.5  | 0.0 | 6.5 | 3.2 | 6.5 | 6.5  | 16.1 | 0.0  | 100.  |      |
| 21         | 29.0 | 0.0  | 3.2 | 3.2  | 3.2 | 3.2  | 6.5  | 12.9 | 9.7  | 3.2  | 0.0 | 0.0 | 6.5 | 0.0 | 6.5  | 12.9 | 0.0  | 100.  |      |
| 22         | 22.6 | 0.0  | 3.2 | 3.2  | 3.2 | 9.7  | 9.7  | 6.5  | 16.1 | 0.0  | 3.2 | 0.0 | 0.0 | 6.5 | 6.5  | 9.7  | 0.0  | 100.  |      |
| 23         | 22.6 | 6.5  | 3.2 | 6.5  | 3.2 | 0.0  | 12.9 | 0.0  | 19.4 | 0.0  | 3.2 | 3.2 | 3.2 | 6.5 | 3.2  | 9.7  | 0.0  | 100.  |      |
| 24         | 29.0 | 6.5  | 0.0 | 3.2  | 3.2 | 0.0  | 9.7  | 12.9 | 6.5  | 6.5  | 0.0 | 0.0 | 0.0 | 9.7 | 3.2  | 9.7  | 0.0  | 100.  |      |
| ALL        | 20.3 | 4.0  | 3.9 | 4.7  | 4.2 | 5.1  | 6.9  | 9.7  | 11.0 | 5.1  | 1.6 | 2.3 | 1.9 | 3.5 | 6.0  | 9.8  | 0.0  | 100.  |      |

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-MAR

| HR. OF DAY | WIND DIRECTION |     |     |     |     |     |      |      |      |      |     |     |     |     |      |      | TOTAL |      |
|------------|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|------|------|-------|------|
|            | N              | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  |       | CALM |
| 1          | 14.6           | 3.4 | 4.5 | 2.2 | 1.1 | 3.4 | 11.2 | 11.2 | 16.9 | 4.5  | 2.2 | 2.2 | 1.1 | 6.7 | 7.9  | 6.7  | 0.0   | 100. |
| 2          | 13.5           | 3.4 | 1.1 | 3.4 | 1.1 | 1.1 | 15.7 | 9.0  | 15.7 | 5.6  | 1.1 | 3.4 | 0.0 | 5.6 | 10.1 | 10.1 | 0.0   | 100. |
| 3          | 18.0           | 2.2 | 2.2 | 2.2 | 3.4 | 7.9 | 11.2 | 9.0  | 9.0  | 1.1  | 4.5 | 1.1 | 1.1 | 3.4 | 10.1 | 6.7  | 0.0   | 100. |
| 4          | 10.1           | 3.4 | 1.1 | 7.9 | 3.4 | 3.4 | 6.7  | 14.6 | 16.9 | 3.4  | 0.0 | 1.1 | 1.1 | 4.5 | 9.0  | 12.4 | 1.1   | 100. |
| 5          | 16.9           | 1.1 | 3.4 | 1.1 | 2.2 | 4.5 | 11.2 | 19.1 | 7.9  | 2.2  | 1.1 | 2.2 | 4.5 | 5.6 | 11.2 | 5.6  | 0.0   | 100. |
| 6          | 12.4           | 7.9 | 1.1 | 2.2 | 2.2 | 5.6 | 6.7  | 19.1 | 11.2 | 6.7  | 1.1 | 4.5 | 1.1 | 3.4 | 5.6  | 9.0  | 0.0   | 100. |
| 7          | 11.2           | 4.5 | 3.4 | 2.2 | 2.2 | 4.5 | 10.1 | 15.7 | 14.6 | 2.2  | 1.1 | 4.5 | 1.1 | 4.5 | 7.9  | 6.7  | 0.0   | 100. |
| 8          | 9.0            | 2.2 | 3.4 | 3.4 | 3.4 | 5.6 | 5.6  | 18.0 | 13.5 | 4.5  | 2.2 | 4.5 | 1.1 | 4.5 | 9.0  | 10.1 | 0.0   | 100. |
| 9          | 6.8            | 4.5 | 1.1 | 3.4 | 3.4 | 6.8 | 4.5  | 14.8 | 15.9 | 4.5  | 4.5 | 4.5 | 2.3 | 3.4 | 8.0  | 11.4 | 0.0   | 100. |
| 10         | 12.5           | 3.4 | 3.4 | 1.1 | 4.5 | 6.8 | 3.4  | 10.2 | 13.6 | 11.4 | 4.5 | 3.4 | 2.3 | 4.5 | 4.5  | 10.2 | 0.0   | 100. |
| 11         | 5.7            | 3.4 | 2.3 | 0.0 | 5.7 | 8.0 | 5.7  | 4.5  | 14.8 | 10.2 | 8.0 | 2.3 | 2.3 | 5.7 | 4.5  | 17.0 | 0.0   | 100. |
| 12         | 12.5           | 5.7 | 0.0 | 0.0 | 2.3 | 8.0 | 5.7  | 15.9 | 12.5 | 3.4  | 3.4 | 5.7 | 2.3 | 4.5 | 5.7  | 9.1  | 0.0   | 100. |
| 13         | 10.2           | 4.5 | 2.3 | 2.3 | 3.4 | 5.7 | 3.4  | 5.7  | 13.6 | 13.6 | 2.3 | 5.7 | 3.4 | 4.5 | 8.0  | 12.5 | 0.0   | 100. |
| 14         | 10.2           | 3.4 | 2.3 | 1.1 | 4.5 | 3.4 | 6.8  | 4.5  | 10.2 | 17.0 | 1.1 | 8.0 | 2.3 | 4.5 | 8.0  | 12.5 | 0.0   | 100. |
| 15         | 8.0            | 1.1 | 3.4 | 1.1 | 4.5 | 3.4 | 9.1  | 2.3  | 11.4 | 14.8 | 2.3 | 5.7 | 2.3 | 6.8 | 10.2 | 13.6 | 0.0   | 100. |
| 16         | 8.0            | 2.3 | 4.5 | 3.4 | 4.5 | 4.5 | 5.7  | 3.4  | 11.4 | 12.5 | 3.4 | 4.5 | 4.5 | 5.7 | 6.8  | 14.8 | 0.0   | 100. |
| 17         | 9.0            | 5.6 | 2.2 | 5.6 | 2.2 | 1.1 | 5.6  | 5.6  | 9.0  | 12.4 | 4.5 | 5.6 | 2.2 | 5.6 | 7.9  | 15.7 | 0.0   | 100. |
| 18         | 9.0            | 5.6 | 4.5 | 5.6 | 2.2 | 2.2 | 5.6  | 7.9  | 6.7  | 7.9  | 7.9 | 6.7 | 0.0 | 4.5 | 6.7  | 16.9 | 0.0   | 100. |
| 19         | 11.2           | 3.4 | 3.4 | 4.5 | 2.2 | 4.5 | 4.5  | 6.7  | 9.0  | 7.9  | 6.7 | 1.1 | 7.9 | 1.1 | 9.0  | 16.9 | 0.0   | 100. |
| 20         | 9.0            | 4.5 | 4.5 | 4.5 | 2.2 | 1.1 | 4.5  | 7.9  | 12.4 | 10.1 | 1.1 | 4.5 | 5.6 | 3.4 | 7.9  | 16.9 | 0.0   | 100. |
| 21         | 14.6           | 1.1 | 3.4 | 4.5 | 2.2 | 2.2 | 5.6  | 12.4 | 13.5 | 3.4  | 3.4 | 3.4 | 4.5 | 2.2 | 9.0  | 14.6 | 0.0   | 100. |
| 22         | 14.6           | 2.2 | 3.4 | 5.6 | 2.2 | 3.4 | 5.6  | 10.1 | 16.9 | 2.2  | 3.4 | 3.4 | 2.2 | 5.6 | 7.9  | 11.2 | 0.0   | 100. |
| 23         | 11.2           | 6.7 | 2.2 | 2.2 | 3.4 | 2.2 | 9.0  | 9.0  | 13.5 | 2.2  | 3.4 | 3.4 | 3.4 | 4.5 | 10.1 | 13.5 | 0.0   | 100. |
| 24         | 15.7           | 6.7 | 2.2 | 1.1 | 2.2 | 2.2 | 6.7  | 19.1 | 7.9  | 7.9  | 2.2 | 1.1 | 2.2 | 6.7 | 7.9  | 7.9  | 0.0   | 100. |
| ALL        | 11.4           | 3.9 | 2.7 | 3.0 | 3.0 | 4.2 | 7.0  | 10.3 | 12.5 | 7.8  | 3.0 | 3.9 | 2.7 | 4.7 | 7.9  | 11.7 | 0.0   | 100. |

NUMBER OF OBS = 2128

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

APRIL

WIND DIRECTION

| HR. OF DAY | N    | NNE | NE  | ENE  | E    | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW  | W    | WNW  | NW   | NNW  | CALM | TOTAL |
|------------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1          | 6.7  | 0.0 | 0.0 | 3.3  | 3.3  | 13.3 | 3.3  | 3.3  | 10.0 | 6.7  | 3.3  | 0.0  | 6.7  | 10.0 | 16.7 | 13.3 | 0.0  | 100.  |
| 2          | 10.3 | 0.0 | 0.0 | 0.0  | 3.4  | 13.8 | 3.4  | 3.4  | 10.3 | 3.4  | 0.0  | 3.4  | 3.4  | 10.3 | 13.8 | 20.7 | 0.0  | 100.  |
| 3          | 6.7  | 6.7 | 0.0 | 0.0  | 6.7  | 0.0  | 13.3 | 13.3 | 6.7  | 3.3  | 3.3  | 0.0  | 6.7  | 3.3  | 20.0 | 10.0 | 0.0  | 100.  |
| 4          | 10.0 | 3.3 | 3.3 | 0.0  | 3.3  | 3.3  | 16.7 | 10.0 | 6.7  | 0.0  | 0.0  | 0.0  | 6.7  | 3.3  | 13.3 | 10.0 | 0.0  | 100.  |
| 5          | 13.3 | 6.7 | 0.0 | 3.3  | 6.7  | 3.3  | 16.7 | 6.7  | 10.0 | 0.0  | 0.0  | 0.0  | 6.7  | 0.0  | 16.7 | 6.7  | 0.0  | 100.  |
| 6          | 6.7  | 3.3 | 6.7 | 0.0  | 6.7  | 0.0  | 6.7  | 13.3 | 16.7 | 0.0  | 0.0  | 3.3  | 6.7  | 3.3  | 13.3 | 13.3 | 0.0  | 100.  |
| 7          | 6.7  | 3.3 | 3.3 | 3.3  | 6.7  | 6.7  | 10.0 | 10.0 | 13.3 | 3.3  | 0.0  | 0.0  | 6.7  | 0.0  | 10.0 | 3.3  | 0.0  | 100.  |
| 8          | 3.3  | 3.3 | 0.0 | 10.0 | 3.3  | 0.0  | 16.7 | 6.7  | 13.3 | 6.7  | 0.0  | 6.7  | 6.7  | 3.3  | 13.3 | 6.7  | 0.0  | 100.  |
| 9          | 6.7  | 0.0 | 3.3 | 3.3  | 6.7  | 3.3  | 10.0 | 10.0 | 6.7  | 3.3  | 10.0 | 3.3  | 6.7  | 3.3  | 16.7 | 6.7  | 0.0  | 100.  |
| 10         | 3.3  | 0.0 | 0.0 | 6.7  | 10.0 | 3.3  | 6.7  | 10.0 | 6.7  | 3.3  | 3.3  | 3.3  | 16.7 | 0.0  | 10.0 | 16.7 | 0.0  | 100.  |
| 11         | 6.7  | 3.3 | 0.0 | 0.0  | 6.7  | 6.7  | 3.3  | 13.3 | 6.7  | 3.3  | 0.0  | 6.7  | 6.7  | 3.3  | 16.7 | 13.3 | 0.0  | 100.  |
| 12         | 3.3  | 6.7 | 6.7 | 3.3  | 6.7  | 6.7  | 10.0 | 6.7  | 13.3 | 0.0  | 0.0  | 10.0 | 6.7  | 0.0  | 10.0 | 10.0 | 0.0  | 100.  |
| 13         | 10.0 | 0.0 | 0.0 | 6.7  | 3.3  | 6.7  | 10.0 | 10.0 | 13.3 | 0.0  | 0.0  | 10.0 | 10.0 | 0.0  | 10.0 | 10.0 | 0.0  | 100.  |
| 14         | 6.7  | 3.3 | 3.3 | 0.0  | 3.3  | 6.7  | 3.3  | 13.3 | 10.0 | 3.3  | 10.0 | 6.7  | 10.0 | 3.3  | 6.7  | 10.0 | 0.0  | 100.  |
| 15         | 10.0 | 3.3 | 0.0 | 3.3  | 0.0  | 3.3  | 13.3 | 6.7  | 13.3 | 6.7  | 3.3  | 3.3  | 13.3 | 0.0  | 10.0 | 10.0 | 0.0  | 100.  |
| 16         | 0.0  | 6.7 | 0.0 | 3.3  | 3.3  | 6.7  | 10.0 | 6.7  | 13.3 | 10.0 | 6.7  | 3.3  | 0.0  | 3.3  | 6.7  | 20.0 | 0.0  | 100.  |
| 17         | 3.3  | 0.0 | 3.3 | 0.0  | 0.0  | 13.3 | 6.7  | 10.0 | 16.7 | 3.3  | 13.3 | 3.3  | 0.0  | 3.3  | 6.7  | 16.7 | 0.0  | 100.  |
| 18         | 3.3  | 0.0 | 6.7 | 0.0  | 6.7  | 6.7  | 16.7 | 3.3  | 16.7 | 3.3  | 6.7  | 3.3  | 0.0  | 3.3  | 3.3  | 20.0 | 0.0  | 100.  |
| 19         | 6.7  | 0.0 | 3.3 | 6.7  | 3.3  | 6.7  | 10.0 | 16.7 | 13.3 | 3.3  | 3.3  | 3.3  | 0.0  | 0.0  | 3.3  | 20.0 | 0.0  | 100.  |
| 20         | 13.3 | 0.0 | 3.3 | 3.3  | 6.7  | 6.7  | 3.3  | 13.3 | 13.3 | 6.7  | 3.3  | 0.0  | 0.0  | 0.0  | 10.0 | 16.7 | 0.0  | 100.  |
| 21         | 3.3  | 3.3 | 3.3 | 6.7  | 3.3  | 3.3  | 6.7  | 16.7 | 13.3 | 13.3 | 0.0  | 0.0  | 3.3  | 0.0  | 13.3 | 13.3 | 0.0  | 100.  |
| 22         | 6.7  | 3.3 | 3.3 | 0.0  | 3.3  | 10.0 | 0.0  | 3.3  | 33.3 | 6.7  | 0.0  | 0.0  | 0.0  | 6.7  | 16.7 | 6.7  | 0.0  | 100.  |
| 23         | 6.7  | 6.7 | 3.3 | 0.0  | 3.3  | 6.7  | 0.0  | 10.0 | 23.3 | 3.3  | 3.3  | 0.0  | 3.3  | 3.3  | 16.7 | 10.0 | 0.0  | 100.  |
| 24         | 0.0  | 0.0 | 0.0 | 3.3  | 3.3  | 6.7  | 6.7  | 10.0 | 20.0 | 3.3  | 0.0  | 6.7  | 3.3  | 10.0 | 10.0 | 16.7 | 0.0  | 100.  |
| ALL        | 6.4  | 2.6 | 2.2 | 2.8  | 5.0  | 6.3  | 7.2  | 9.7  | 13.5 | 4.7  | 2.9  | 3.2  | 5.1  | 3.5  | 12.2 | 12.5 | 0.0  | 100.  |

NUMBER OF OBS = 719

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

MAY

| HR. OF DAY | WIND DIRECTION |     |     |     |     |      |      |      |      |      |     |     |     |      |      |      | TOTAL |      |
|------------|----------------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|------|------|------|-------|------|
|            | N              | NNE | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW  | NW   | NNW  |       | CALM |
| 1          | 3.2            | 6.5 | 0.0 | 0.0 | 0.0 | 6.5  | 0.0  | 22.6 | 12.9 | 9.7  | 6.5 | 3.2 | 0.0 | 6.5  | 9.7  | 9.7  | 3.2   | 100. |
| 2          | 3.2            | 6.5 | 0.0 | 3.2 | 0.0 | 3.2  | 6.5  | 16.1 | 22.6 | 6.5  | 0.0 | 0.0 | 6.5 | 3.2  | 9.7  | 12.9 | 0.0   | 100. |
| 3          | 9.7            | 3.2 | 0.0 | 0.0 | 3.2 | 9.7  | 6.5  | 12.9 | 16.1 | 3.2  | 3.2 | 3.2 | 0.0 | 6.5  | 9.7  | 12.9 | 0.0   | 100. |
| 4          | 9.7            | 3.2 | 0.0 | 0.0 | 6.5 | 3.2  | 6.5  | 29.0 | 9.7  | 3.2  | 3.2 | 0.0 | 0.0 | 3.2  | 9.7  | 12.9 | 0.0   | 100. |
| 5          | 9.7            | 6.5 | 0.0 | 0.0 | 3.2 | 3.2  | 12.9 | 25.8 | 6.5  | 9.7  | 3.2 | 0.0 | 3.2 | 6.5  | 3.2  | 6.5  | 0.0   | 100. |
| 6          | 9.7            | 6.5 | 6.5 | 0.0 | 3.2 | 3.2  | 12.9 | 16.1 | 6.5  | 3.2  | 6.5 | 0.0 | 0.0 | 6.5  | 3.2  | 16.1 | 0.0   | 100. |
| 7          | 12.9           | 6.5 | 0.0 | 0.0 | 3.2 | 12.9 | 9.7  | 3.2  | 22.6 | 6.5  | 0.0 | 0.0 | 0.0 | 9.7  | 3.2  | 9.7  | 0.0   | 100. |
| 8          | 9.7            | 6.5 | 0.0 | 0.0 | 6.5 | 3.2  | 22.6 | 12.9 | 9.7  | 3.2  | 6.5 | 0.0 | 0.0 | 3.2  | 9.7  | 6.5  | 0.0   | 100. |
| 9          | 9.7            | 3.2 | 0.0 | 3.2 | 3.2 | 6.5  | 19.4 | 9.7  | 9.7  | 9.7  | 3.2 | 3.2 | 3.2 | 6.5  | 3.2  | 9.7  | 0.0   | 100. |
| 10         | 6.5            | 6.5 | 0.0 | 0.0 | 6.5 | 3.2  | 9.7  | 16.1 | 12.9 | 9.7  | 3.2 | 3.2 | 0.0 | 6.5  | 12.9 | 3.2  | 0.0   | 100. |
| 11         | 6.5            | 3.2 | 3.2 | 0.0 | 0.0 | 6.5  | 9.7  | 12.9 | 16.1 | 12.9 | 0.0 | 0.0 | 6.5 | 3.2  | 12.9 | 6.5  | 0.0   | 100. |
| 12         | 9.7            | 0.0 | 3.2 | 0.0 | 0.0 | 6.5  | 9.7  | 16.1 | 12.9 | 9.7  | 3.2 | 0.0 | 3.2 | 9.7  | 3.2  | 12.9 | 0.0   | 100. |
| 13         | 6.5            | 6.5 | 0.0 | 0.0 | 0.0 | 3.2  | 6.5  | 22.6 | 12.9 | 6.5  | 3.2 | 0.0 | 0.0 | 6.5  | 16.1 | 9.7  | 0.0   | 100. |
| 14         | 9.7            | 6.5 | 0.0 | 0.0 | 0.0 | 3.2  | 19.4 | 19.4 | 19.4 | 6.5  | 3.2 | 3.2 | 0.0 | 3.2  | 16.1 | 6.5  | 0.0   | 100. |
| 15         | 3.2            | 3.2 | 6.5 | 3.2 | 0.0 | 3.2  | 9.7  | 12.9 | 19.4 | 6.5  | 3.2 | 0.0 | 3.2 | 3.2  | 12.9 | 9.7  | 0.0   | 100. |
| 16         | 3.2            | 3.2 | 0.0 | 3.2 | 3.2 | 3.2  | 6.5  | 16.1 | 22.6 | 3.2  | 0.0 | 3.2 | 3.2 | 6.5  | 6.5  | 16.1 | 0.0   | 100. |
| 17         | 0.0            | 6.5 | 0.0 | 0.0 | 3.2 | 6.5  | 3.2  | 16.1 | 25.8 | 6.5  | 0.0 | 3.2 | 3.2 | 6.5  | 6.5  | 12.9 | 0.0   | 100. |
| 18         | 3.2            | 3.2 | 0.0 | 0.0 | 6.5 | 0.0  | 6.5  | 22.6 | 19.4 | 6.5  | 3.2 | 0.0 | 3.2 | 3.2  | 9.7  | 12.9 | 0.0   | 100. |
| 19         | 3.2            | 3.2 | 3.2 | 0.0 | 3.2 | 0.0  | 6.5  | 19.4 | 29.0 | 0.0  | 3.2 | 0.0 | 3.2 | 9.7  | 6.5  | 9.7  | 0.0   | 100. |
| 20         | 3.2            | 0.0 | 0.0 | 0.0 | 3.2 | 3.2  | 3.2  | 29.0 | 22.6 | 3.2  | 3.2 | 0.0 | 0.0 | 3.2  | 16.1 | 9.7  | 0.0   | 100. |
| 21         | 3.2            | 0.0 | 0.0 | 0.0 | 3.2 | 0.0  | 9.7  | 25.8 | 19.4 | 3.2  | 0.0 | 3.2 | 0.0 | 6.5  | 16.1 | 9.7  | 0.0   | 100. |
| 22         | 12.9           | 3.2 | 3.2 | 3.2 | 0.0 | 0.0  | 0.0  | 25.8 | 25.8 | 3.2  | 0.0 | 0.0 | 0.0 | 12.9 | 0.0  | 6.5  | 0.0   | 100. |
| 23         | 16.1           | 0.0 | 0.0 | 0.0 | 6.5 | 0.0  | 6.5  | 22.6 | 16.1 | 6.5  | 6.5 | 0.0 | 6.5 | 0.0  | 3.2  | 9.7  | 0.0   | 100. |
| 24         | 3.3            | 6.7 | 0.0 | 0.0 | 3.3 | 3.3  | 3.3  | 23.3 | 23.3 | 0.0  | 6.7 | 0.0 | 3.3 | 3.3  | 0.0  | 20.0 | 0.0   | 100. |
| ALL        | 7.0            | 4.2 | 1.1 | 0.7 | 3.0 | 3.9  | 7.4  | 19.1 | 17.2 | 5.8  | 3.0 | 1.1 | 2.0 | 5.7  | 8.3  | 10.5 | 0.1   | 100. |

NUMBER OF OBS = 743



NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUNE

| HR. OF DAY | WIND DIRECTION |      |      |      |     |      |      |      |      |      |      |      |      |     |      |      | CALM | TOTAL |
|------------|----------------|------|------|------|-----|------|------|------|------|------|------|------|------|-----|------|------|------|-------|
|            | N              | NNE  | NE   | ENE  | E   | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW  | W    | WNW | NW   | NNW  |      |       |
| 1          | 6.7            | 0.0  | 0.0  | 0.0  | 0.0 | 3.3  | 6.7  | 10.0 | 33.3 | 10.0 | 0.0  | 3.3  | 0.0  | 0.0 | 6.7  | 20.0 | 0.0  | 100.  |
| 2          | 6.7            | 3.3  | 3.3  | 3.3  | 0.0 | 0.0  | 0.0  | 13.3 | 26.7 | 6.7  | 6.7  | 0.0  | 0.0  | 0.0 | 10.0 | 20.0 | 0.0  | 100.  |
| 3          | 0.0            | 3.3  | 3.3  | 6.7  | 0.0 | 0.0  | 0.0  | 20.0 | 26.7 | 6.7  | 10.0 | 0.0  | 3.3  | 6.7 | 6.7  | 6.7  | 0.0  | 100.  |
| 4          | 3.3            | 3.3  | 3.3  | 0.0  | 3.3 | 0.0  | 0.0  | 13.3 | 26.7 | 13.3 | 0.0  | 3.3  | 0.0  | 3.3 | 13.3 | 10.0 | 3.3  | 100.  |
| 5          | 0.0            | 0.0  | 3.3  | 3.3  | 0.0 | 0.0  | 3.3  | 23.3 | 20.0 | 3.3  | 10.0 | 0.0  | 6.7  | 3.3 | 13.3 | 10.0 | 0.0  | 100.  |
| 6          | 0.0            | 3.3  | 0.0  | 0.0  | 0.0 | 10.0 | 0.0  | 16.7 | 6.7  | 20.0 | 3.3  | 10.0 | 0.0  | 6.7 | 6.7  | 13.3 | 0.0  | 100.  |
| 7          | 6.7            | 0.0  | 0.0  | 6.7  | 3.3 | 0.0  | 10.0 | 6.7  | 26.7 | 10.0 | 0.0  | 3.3  | 6.7  | 3.3 | 3.3  | 13.3 | 0.0  | 100.  |
| 8          | 3.3            | 3.3  | 3.3  | 0.0  | 3.3 | 0.0  | 3.3  | 3.3  | 33.3 | 13.3 | 6.7  | 6.7  | 6.7  | 3.3 | 0.0  | 10.0 | 0.0  | 100.  |
| 9          | 6.7            | 3.3  | 0.0  | 3.3  | 3.3 | 3.3  | 3.3  | 0.0  | 30.0 | 13.3 | 3.3  | 0.0  | 10.0 | 6.7 | 3.3  | 10.0 | 0.0  | 100.  |
| 10         | 3.3            | 3.3  | 0.0  | 6.7  | 3.3 | 0.0  | 0.0  | 13.3 | 23.3 | 10.0 | 10.0 | 3.3  | 6.7  | 3.3 | 6.7  | 6.7  | 0.0  | 100.  |
| 11         | 3.3            | 3.3  | 3.3  | 0.0  | 0.0 | 6.7  | 3.3  | 16.7 | 16.7 | 6.7  | 0.0  | 10.0 | 10.0 | 3.3 | 3.3  | 13.3 | 0.0  | 100.  |
| 12         | 6.7            | 0.0  | 3.3  | 3.3  | 3.3 | 0.0  | 3.3  | 23.3 | 13.3 | 10.0 | 6.7  | 3.3  | 3.3  | 6.7 | 3.3  | 10.0 | 0.0  | 100.  |
| 13         | 10.0           | 0.0  | 0.0  | 3.3  | 0.0 | 3.3  | 3.3  | 16.7 | 16.7 | 10.0 | 6.7  | 0.0  | 3.3  | 6.7 | 6.7  | 6.7  | 0.0  | 100.  |
| 14         | 6.7            | 3.3  | 3.3  | 0.0  | 3.3 | 6.7  | 0.0  | 20.0 | 20.0 | 10.0 | 0.0  | 3.3  | 3.3  | 6.7 | 0.0  | 13.3 | 0.0  | 100.  |
| 15         | 0.0            | 3.3  | 6.7  | 0.0  | 0.0 | 3.3  | 0.0  | 10.0 | 20.0 | 16.7 | 10.0 | 0.0  | 3.3  | 6.7 | 0.0  | 20.0 | 0.0  | 100.  |
| 16         | 3.3            | 10.0 | 0.0  | 0.0  | 3.3 | 3.3  | 10.0 | 13.3 | 20.0 | 10.0 | 0.0  | 3.3  | 0.0  | 3.3 | 6.7  | 13.3 | 0.0  | 100.  |
| 17         | 6.7            | 3.3  | 6.7  | 0.0  | 0.0 | 3.3  | 6.7  | 16.7 | 20.0 | 6.7  | 0.0  | 6.7  | 0.0  | 0.0 | 10.0 | 13.3 | 0.0  | 100.  |
| 18         | 16.7           | 3.3  | 3.3  | 0.0  | 0.0 | 3.3  | 3.3  | 16.7 | 23.3 | 3.3  | 0.0  | 6.7  | 0.0  | 3.3 | 6.7  | 10.0 | 0.0  | 100.  |
| 19         | 0.0            | 0.0  | 10.0 | 10.0 | 0.0 | 0.0  | 6.7  | 3.3  | 30.0 | 6.7  | 6.7  | 0.0  | 0.0  | 3.3 | 3.3  | 20.0 | 0.0  | 100.  |
| 20         | 6.7            | 3.3  | 0.0  | 3.3  | 3.3 | 0.0  | 3.3  | 20.0 | 23.3 | 10.0 | 0.0  | 0.0  | 0.0  | 3.3 | 6.7  | 10.0 | 0.0  | 100.  |
| 21         | 6.7            | 0.0  | 6.7  | 0.0  | 6.7 | 0.0  | 6.7  | 13.3 | 20.0 | 6.7  | 3.3  | 0.0  | 3.3  | 3.3 | 3.3  | 20.0 | 0.0  | 100.  |
| 22         | 6.7            | 0.0  | 0.0  | 3.3  | 3.3 | 3.3  | 3.3  | 20.0 | 23.3 | 3.3  | 3.3  | 3.3  | 3.3  | 3.3 | 3.3  | 16.7 | 0.0  | 100.  |
| 23         | 3.3            | 0.0  | 0.0  | 0.0  | 0.0 | 3.3  | 3.3  | 26.7 | 23.3 | 6.7  | 3.3  | 6.7  | 0.0  | 6.7 | 0.0  | 16.7 | 0.0  | 100.  |
| 24         | 0.0            | 0.0  | 0.0  | 0.0  | 3.3 | 3.3  | 0.0  | 20.0 | 30.0 | 6.7  | 3.3  | 0.0  | 6.7  | 3.3 | 6.7  | 16.7 | 0.0  | 100.  |
| ALL        | 4.7            | 2.1  | 2.8  | 2.1  | 2.2 | 2.2  | 3.7  | 15.3 | 22.9 | 8.9  | 3.5  | 3.2  | 3.3  | 4.2 | 5.6  | 13.2 | 0.1  | 100.  |

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

APR-JUN

WIND DIRECTION

| HR. OF DAY | N   | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW | SW  | WSW | W   | WNW | NW   | NNW  | CALM | TOTAL |
|------------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|------|------|------|-------|
| 1          | 5.5 | 2.2 | 0.0 | 1.1 | 1.1 | 7.7 | 3.3  | 12.1 | 18.7 | 8.8 | 3.3 | 2.2 | 2.2 | 5.5 | 11.0 | 14.3 | 1.1  | 100.  |
| 2          | 6.7 | 3.3 | 1.1 | 2.2 | 1.1 | 5.6 | 3.3  | 11.1 | 20.0 | 5.6 | 2.2 | 1.1 | 3.3 | 4.4 | 11.1 | 17.8 | 0.0  | 100.  |
| 3          | 5.5 | 4.4 | 1.1 | 2.2 | 3.3 | 3.3 | 6.6  | 15.4 | 16.5 | 4.4 | 5.5 | 1.1 | 3.3 | 5.5 | 12.1 | 9.9  | 0.0  | 100.  |
| 4          | 7.7 | 3.3 | 2.2 | 0.0 | 6.6 | 2.2 | 3.3  | 19.8 | 15.4 | 7.7 | 1.1 | 1.1 | 2.2 | 3.3 | 12.1 | 11.0 | 1.1  | 100.  |
| 5          | 7.7 | 4.4 | 1.1 | 2.2 | 3.3 | 2.2 | 6.6  | 22.0 | 11.0 | 7.7 | 4.4 | 0.0 | 5.5 | 3.3 | 11.0 | 7.7  | 0.0  | 100.  |
| 6          | 5.5 | 4.4 | 4.4 | 0.0 | 3.3 | 4.4 | 6.6  | 15.4 | 9.9  | 7.7 | 3.3 | 4.4 | 3.3 | 5.5 | 7.7  | 14.3 | 0.0  | 100.  |
| 7          | 8.8 | 3.3 | 1.1 | 3.3 | 4.4 | 6.6 | 9.9  | 6.6  | 20.9 | 6.6 | 0.0 | 1.1 | 2.2 | 7.7 | 8.8  | 8.8  | 0.0  | 100.  |
| 8          | 5.5 | 4.4 | 1.1 | 3.3 | 4.4 | 1.1 | 14.3 | 7.7  | 18.7 | 7.7 | 4.4 | 4.4 | 4.4 | 3.3 | 7.7  | 7.7  | 0.0  | 100.  |
| 9          | 7.7 | 2.2 | 1.1 | 3.3 | 4.4 | 4.4 | 6.6  | 9.9  | 15.4 | 8.8 | 5.5 | 2.2 | 6.6 | 5.5 | 7.7  | 8.8  | 0.0  | 100.  |
| 10         | 4.4 | 2.2 | 2.2 | 3.3 | 6.6 | 2.2 | 5.5  | 13.2 | 14.3 | 7.7 | 5.5 | 3.3 | 7.7 | 3.3 | 9.9  | 8.8  | 0.0  | 100.  |
| 11         | 5.5 | 3.3 | 2.2 | 0.0 | 3.3 | 6.6 | 5.5  | 14.3 | 13.2 | 7.7 | 0.0 | 5.5 | 7.7 | 3.3 | 11.0 | 11.0 | 0.0  | 100.  |
| 12         | 6.6 | 2.2 | 4.4 | 2.2 | 3.3 | 4.4 | 7.7  | 15.4 | 13.2 | 6.6 | 3.3 | 4.4 | 4.4 | 5.5 | 5.5  | 11.0 | 0.0  | 100.  |
| 13         | 8.8 | 2.2 | 0.0 | 3.3 | 3.3 | 4.4 | 6.6  | 16.5 | 14.3 | 5.5 | 3.3 | 3.3 | 4.4 | 4.4 | 11.0 | 8.8  | 0.0  | 100.  |
| 14         | 7.7 | 4.4 | 2.2 | 0.0 | 2.2 | 5.5 | 2.2  | 17.6 | 16.5 | 6.6 | 4.4 | 4.4 | 4.4 | 4.4 | 7.7  | 9.9  | 0.0  | 100.  |
| 15         | 4.4 | 3.3 | 4.4 | 2.2 | 1.1 | 2.2 | 11.0 | 13.2 | 16.5 | 7.7 | 2.2 | 2.2 | 5.5 | 3.3 | 7.7  | 13.2 | 0.0  | 100.  |
| 16         | 2.2 | 6.6 | 0.0 | 2.2 | 3.3 | 4.4 | 8.8  | 12.1 | 18.7 | 7.7 | 2.2 | 3.3 | 1.1 | 4.4 | 6.6  | 16.5 | 0.0  | 100.  |
| 17         | 3.3 | 3.3 | 3.3 | 0.0 | 1.1 | 7.7 | 5.5  | 14.3 | 20.9 | 5.5 | 4.4 | 4.4 | 1.1 | 3.3 | 7.7  | 14.3 | 0.0  | 100.  |
| 18         | 7.7 | 2.2 | 3.3 | 0.0 | 4.4 | 3.3 | 8.8  | 14.3 | 19.8 | 4.4 | 3.3 | 3.3 | 1.1 | 3.3 | 6.6  | 14.3 | 0.0  | 100.  |
| 19         | 3.3 | 1.1 | 5.5 | 5.5 | 2.2 | 2.2 | 7.7  | 13.2 | 24.2 | 3.3 | 4.4 | 1.1 | 1.1 | 4.4 | 4.4  | 16.5 | 0.0  | 100.  |
| 20         | 7.7 | 1.1 | 1.1 | 2.2 | 4.4 | 3.3 | 3.3  | 20.9 | 19.8 | 6.6 | 2.2 | 0.0 | 1.1 | 3.3 | 12.1 | 11.0 | 0.0  | 100.  |
| 21         | 4.4 | 1.1 | 3.3 | 2.2 | 4.4 | 3.3 | 6.6  | 15.4 | 18.7 | 7.7 | 1.1 | 1.1 | 2.2 | 3.3 | 11.0 | 14.3 | 0.0  | 100.  |
| 22         | 8.8 | 2.2 | 2.2 | 2.2 | 3.3 | 4.4 | 1.1  | 16.5 | 27.5 | 4.4 | 1.1 | 1.1 | 1.1 | 7.7 | 6.6  | 9.9  | 0.0  | 100.  |
| 23         | 8.8 | 2.2 | 1.1 | 0.0 | 3.3 | 3.3 | 3.3  | 19.8 | 20.9 | 5.5 | 4.4 | 2.2 | 3.3 | 3.3 | 6.6  | 12.1 | 0.0  | 100.  |
| 24         | 1.1 | 2.2 | 0.0 | 1.1 | 3.3 | 4.4 | 3.3  | 17.8 | 24.4 | 3.3 | 3.3 | 2.2 | 4.4 | 5.6 | 5.6  | 17.8 | 0.0  | 100.  |
| ALL        | 6.0 | 3.0 | 2.0 | 1.8 | 3.4 | 4.1 | 6.1  | 14.8 | 17.9 | 6.5 | 3.1 | 2.5 | 3.5 | 4.4 | 8.7  | 12.1 | 0.1  | 100.  |

NUMBER OF OBS = 2182

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-JUN

WIND DIRECTION

| HR. OF DAY | N    | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  | CALM | TOTAL |
|------------|------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|------|------|------|-------|
| 1          | 10.0 | 2.8 | 2.2 | 1.7 | 1.1 | 5.6 | 7.2  | 11.7 | 17.8 | 6.7  | 2.8 | 2.2 | 1.7 | 6.1 | 9.4  | 10.6 | 0.6  | 100.  |
| 2          | 10.1 | 3.4 | 1.1 | 2.8 | 1.1 | 3.4 | 9.5  | 10.1 | 17.9 | 5.6  | 1.7 | 2.2 | 1.7 | 5.0 | 10.6 | 14.0 | 0.0  | 100.  |
| 3          | 11.7 | 3.3 | 1.7 | 2.2 | 3.3 | 5.6 | 7.2  | 13.3 | 12.8 | 6.7  | 3.3 | 2.8 | 2.2 | 4.4 | 11.1 | 8.3  | 0.0  | 100.  |
| 4          | 8.9  | 3.3 | 1.7 | 3.9 | 5.0 | 2.8 | 5.0  | 17.2 | 16.1 | 5.6  | 0.6 | 1.1 | 1.7 | 3.9 | 10.6 | 11.7 | 1.1  | 100.  |
| 5          | 12.2 | 2.8 | 2.2 | 1.7 | 2.8 | 3.3 | 8.9  | 20.6 | 9.4  | 5.0  | 2.8 | 1.1 | 5.0 | 4.4 | 11.1 | 6.7  | 0.0  | 100.  |
| 6          | 8.9  | 6.1 | 2.8 | 1.1 | 2.8 | 5.0 | 6.7  | 17.2 | 10.6 | 7.2  | 2.2 | 4.4 | 2.2 | 4.4 | 6.7  | 11.7 | 0.0  | 100.  |
| 7          | 10.0 | 3.9 | 2.2 | 2.8 | 3.3 | 5.6 | 10.0 | 11.1 | 17.8 | 4.4  | 0.6 | 2.8 | 3.3 | 6.1 | 8.3  | 7.8  | 0.0  | 100.  |
| 8          | 7.2  | 3.3 | 2.2 | 3.3 | 3.9 | 3.3 | 10.0 | 12.8 | 16.1 | 6.1  | 3.3 | 4.4 | 2.8 | 3.9 | 8.3  | 8.9  | 0.0  | 100.  |
| 9          | 7.3  | 3.4 | 1.1 | 3.4 | 3.9 | 5.6 | 5.6  | 12.3 | 15.6 | 6.7  | 5.0 | 3.4 | 4.5 | 4.5 | 7.8  | 10.1 | 0.0  | 100.  |
| 10         | 8.4  | 2.8 | 2.2 | 2.8 | 2.2 | 4.5 | 4.5  | 11.7 | 14.0 | 9.5  | 5.0 | 3.4 | 5.0 | 3.9 | 7.3  | 9.5  | 0.0  | 100.  |
| 11         | 5.6  | 3.4 | 2.2 | 0.0 | 4.5 | 7.3 | 5.6  | 9.5  | 14.0 | 8.9  | 3.9 | 3.9 | 5.0 | 4.5 | 7.8  | 14.0 | 0.0  | 100.  |
| 12         | 9.5  | 3.9 | 2.2 | 1.1 | 2.8 | 6.1 | 7.8  | 10.6 | 14.5 | 9.5  | 3.4 | 4.5 | 3.4 | 5.0 | 5.6  | 10.1 | 0.0  | 100.  |
| 13         | 9.5  | 3.4 | 1.1 | 2.8 | 3.4 | 5.0 | 5.0  | 11.2 | 14.0 | 9.5  | 2.8 | 4.5 | 3.9 | 5.6 | 7.8  | 10.6 | 0.0  | 100.  |
| 14         | 8.9  | 3.9 | 2.2 | 0.6 | 3.4 | 4.5 | 4.5  | 11.2 | 13.4 | 11.7 | 2.8 | 6.1 | 3.4 | 4.5 | 7.8  | 11.2 | 0.0  | 100.  |
| 15         | 6.1  | 2.2 | 3.9 | 1.7 | 2.8 | 2.8 | 10.1 | 7.8  | 14.0 | 11.2 | 2.2 | 3.9 | 3.9 | 5.0 | 8.9  | 13.4 | 0.0  | 100.  |
| 16         | 5.0  | 4.5 | 2.2 | 2.8 | 3.9 | 4.5 | 7.3  | 7.8  | 15.1 | 10.1 | 2.8 | 3.9 | 2.8 | 5.0 | 6.7  | 15.6 | 0.0  | 100.  |
| 17         | 6.1  | 4.4 | 2.8 | 2.8 | 1.7 | 4.4 | 5.6  | 10.0 | 15.0 | 8.9  | 4.4 | 5.0 | 1.7 | 4.4 | 7.8  | 15.0 | 0.0  | 100.  |
| 18         | 8.3  | 3.9 | 3.9 | 2.8 | 3.3 | 2.8 | 7.2  | 11.1 | 13.3 | 6.1  | 5.6 | 5.0 | 0.6 | 3.9 | 6.7  | 15.6 | 0.0  | 100.  |
| 19         | 7.2  | 2.2 | 4.4 | 5.0 | 2.2 | 3.3 | 6.1  | 10.0 | 16.7 | 5.6  | 5.6 | 1.1 | 4.4 | 2.8 | 6.7  | 16.7 | 0.0  | 100.  |
| 20         | 8.3  | 2.8 | 2.8 | 3.3 | 3.3 | 2.2 | 3.9  | 14.4 | 16.1 | 8.3  | 1.7 | 2.2 | 3.3 | 3.3 | 10.0 | 13.9 | 0.0  | 100.  |
| 21         | 9.4  | 1.1 | 3.3 | 3.3 | 3.3 | 2.8 | 6.1  | 13.9 | 16.1 | 5.6  | 2.2 | 2.2 | 3.3 | 2.8 | 10.0 | 14.4 | 0.0  | 100.  |
| 22         | 11.7 | 2.2 | 2.8 | 3.9 | 2.8 | 3.9 | 3.3  | 13.3 | 22.2 | 3.3  | 2.2 | 2.2 | 1.7 | 6.7 | 7.2  | 10.6 | 0.0  | 100.  |
| 23         | 10.0 | 4.4 | 1.7 | 1.1 | 3.3 | 2.8 | 6.1  | 14.4 | 17.2 | 3.9  | 3.9 | 2.8 | 3.3 | 3.9 | 8.3  | 12.8 | 0.0  | 100.  |
| 24         | 8.4  | 4.5 | 1.1 | 1.1 | 2.8 | 3.4 | 5.0  | 18.4 | 16.2 | 5.6  | 2.8 | 1.7 | 3.4 | 6.1 | 6.7  | 12.8 | 0.0  | 100.  |
| ALL        | 8.7  | 3.4 | 2.4 | 2.4 | 3.2 | 4.2 | 6.6  | 12.6 | 15.2 | 7.1  | 3.1 | 3.2 | 3.1 | 4.6 | 8.3  | 11.9 | 0.1  | 100.  |

NUMBER OF OBS = 4310

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JULY

| HR. OF DAY | WIND DIRECTION |      |     |     |     |      |      |      |      |      |     |     |     |     |     |      | TOTAL |      |
|------------|----------------|------|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|-----|------|-------|------|
|            | N              | NNE  | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW  | NNW  |       | CALM |
| 1          | 6.5            | 3.2  | 6.5 | 3.2 | 0.0 | 0.0  | 6.5  | 6.5  | 38.7 | 3.2  | 6.5 | 6.5 | 0.0 | 0.0 | 0.0 | 12.9 | 0.0   | 100. |
| 2          | 6.5            | 9.7  | 3.2 | 3.2 | 0.0 | 0.0  | 16.1 | 9.7  | 29.0 | 0.0  | 6.5 | 0.0 | 0.0 | 0.0 | 3.2 | 12.9 | 0.0   | 100. |
| 3          | 12.9           | 9.7  | 3.2 | 3.2 | 0.0 | 3.2  | 9.7  | 6.5  | 19.4 | 3.2  | 3.2 | 3.2 | 0.0 | 3.2 | 3.2 | 16.1 | 0.0   | 100. |
| 4          | 3.2            | 16.1 | 3.2 | 6.5 | 3.2 | 0.0  | 9.7  | 6.5  | 19.4 | 9.7  | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 19.4 | 0.0   | 100. |
| 5          | 6.5            | 6.5  | 3.2 | 3.2 | 3.2 | 6.5  | 12.9 | 12.9 | 16.1 | 6.5  | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 9.7  | 3.2   | 100. |
| 6          | 16.1           | 3.2  | 3.2 | 0.0 | 6.5 | 0.0  | 12.9 | 19.4 | 22.6 | 0.0  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 | 0.0   | 100. |
| 7          | 9.7            | 12.9 | 0.0 | 3.2 | 6.5 | 3.2  | 6.5  | 12.9 | 22.6 | 0.0  | 0.0 | 0.0 | 0.0 | 9.7 | 0.0 | 12.9 | 0.0   | 100. |
| 8          | 12.9           | 9.7  | 3.2 | 6.5 | 3.2 | 9.7  | 9.7  | 6.5  | 16.1 | 9.7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 | 0.0   | 100. |
| 9          | 9.7            | 6.5  | 6.5 | 6.5 | 3.2 | 6.5  | 0.0  | 19.4 | 16.1 | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0   | 100. |
| 10         | 6.5            | 9.7  | 6.5 | 3.2 | 6.5 | 6.5  | 6.5  | 6.5  | 19.4 | 16.1 | 3.2 | 0.0 | 0.0 | 3.2 | 0.0 | 6.5  | 0.0   | 100. |
| 11         | 16.1           | 6.5  | 6.5 | 6.5 | 6.5 | 0.0  | 12.9 | 3.2  | 19.4 | 12.9 | 0.0 | 3.2 | 0.0 | 3.2 | 0.0 | 3.2  | 0.0   | 100. |
| 12         | 12.9           | 6.5  | 0.0 | 9.7 | 6.5 | 3.2  | 6.5  | 16.1 | 12.9 | 12.9 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0   | 100. |
| 13         | 12.9           | 6.5  | 9.7 | 0.0 | 6.5 | 6.5  | 3.2  | 12.9 | 19.4 | 9.7  | 3.2 | 0.0 | 0.0 | 0.0 | 3.2 | 6.5  | 0.0   | 100. |
| 14         | 9.7            | 9.7  | 3.2 | 6.5 | 0.0 | 6.5  | 3.2  | 16.1 | 12.9 | 12.9 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 | 0.0   | 100. |
| 15         | 12.9           | 9.7  | 0.0 | 3.2 | 3.2 | 3.2  | 16.1 | 6.5  | 19.4 | 6.5  | 0.0 | 6.5 | 0.0 | 3.2 | 0.0 | 9.7  | 0.0   | 100. |
| 16         | 12.9           | 16.1 | 0.0 | 3.2 | 9.7 | 0.0  | 6.5  | 19.4 | 12.9 | 6.5  | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5  | 0.0   | 100. |
| 17         | 16.1           | 19.4 | 0.0 | 0.0 | 6.5 | 3.2  | 16.1 | 16.1 | 9.7  | 3.2  | 3.2 | 0.0 | 0.0 | 0.0 | 3.2 | 3.2  | 0.0   | 100. |
| 18         | 16.1           | 9.7  | 6.5 | 0.0 | 3.2 | 3.2  | 22.6 | 19.4 | 0.0  | 6.5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 | 0.0   | 100. |
| 19         | 9.7            | 16.1 | 6.5 | 0.0 | 6.5 | 9.7  | 22.6 | 9.7  | 3.2  | 3.2  | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0   | 100. |
| 20         | 3.2            | 9.7  | 3.2 | 6.5 | 0.0 | 3.2  | 19.4 | 9.7  | 3.2  | 3.2  | 3.2 | 0.0 | 3.2 | 0.0 | 0.0 | 12.9 | 0.0   | 100. |
| 21         | 9.7            | 0.0  | 6.5 | 0.0 | 6.5 | 6.5  | 12.9 | 22.6 | 6.5  | 0.0  | 0.0 | 3.2 | 0.0 | 0.0 | 3.2 | 22.6 | 0.0   | 100. |
| 22         | 12.9           | 6.5  | 3.2 | 0.0 | 0.0 | 12.9 | 3.2  | 22.6 | 9.7  | 9.7  | 0.0 | 0.0 | 3.2 | 0.0 | 3.2 | 12.9 | 0.0   | 100. |
| 23         | 0.0            | 6.5  | 3.2 | 3.2 | 0.0 | 6.5  | 9.7  | 12.9 | 16.1 | 6.5  | 6.5 | 0.0 | 0.0 | 3.2 | 3.2 | 22.6 | 0.0   | 100. |
| 24         | 3.2            | 6.5  | 0.0 | 0.0 | 6.5 | 3.2  | 9.7  | 9.7  | 22.6 | 12.9 | 0.0 | 3.2 | 3.2 | 0.0 | 0.0 | 19.4 | 0.0   | 100. |
| ALL        | 9.9            | 9.0  | 3.6 | 3.2 | 4.3 | 4.3  | 10.6 | 12.6 | 16.1 | 7.1  | 2.2 | 1.3 | 0.4 | 1.2 | 1.7 | 12.1 | 0.1   | 100. |

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

AUGUST

| HR. OF DAY | WIND DIRECTION |      |      |      |      |      |      |      |      |      |      |     |     |     |     |      | CALM | TOTAL |      |
|------------|----------------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|------|------|-------|------|
|            | N              | NNE  | NE   | ENE  | E    | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW | W   | WNW | NW  | NNW  |      |       |      |
| 1          | 12.9           | 9.7  | 0.0  | 3.2  | 3.2  | 9.7  | 19.4 | 16.1 | 9.7  | 3.2  | 6.5  | 0.0 | 0.0 | 0.0 | 3.2 | 3.2  | 0.0  | 100.  |      |
| 2          | 6.5            | 6.5  | 0.0  | 0.0  | 12.9 | 0.0  | 16.1 | 22.6 | 12.9 | 6.5  | 0.0  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0  | 12.9 | 0.0   | 100. |
| 3          | 6.5            | 3.2  | 3.2  | 3.2  | 6.5  | 6.5  | 16.1 | 22.6 | 9.7  | 3.2  | 6.5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 12.9 | 0.0   | 100. |
| 4          | 9.7            | 9.7  | 6.5  | 3.2  | 3.2  | 12.9 | 16.1 | 12.9 | 3.2  | 3.2  | 0.0  | 3.2 | 0.0 | 3.2 | 0.0 | 9.7  | 3.2  | 100.  |      |
| 5          | 9.7            | 3.2  | 9.7  | 3.2  | 6.5  | 3.2  | 19.4 | 12.9 | 6.5  | 3.2  | 6.5  | 0.0 | 0.0 | 0.0 | 3.2 | 12.9 | 0.0  | 100.  |      |
| 6          | 3.2            | 3.2  | 3.2  | 3.2  | 6.5  | 3.2  | 16.1 | 22.6 | 9.7  | 3.2  | 6.5  | 0.0 | 3.2 | 3.2 | 6.5 | 6.5  | 0.0  | 100.  |      |
| 7          | 12.9           | 3.2  | 3.2  | 3.2  | 3.2  | 12.9 | 12.9 | 6.5  | 16.1 | 0.0  | 9.7  | 3.2 | 0.0 | 0.0 | 6.5 | 6.5  | 0.0  | 100.  |      |
| 8          | 9.7            | 3.2  | 0.0  | 0.0  | 0.0  | 19.4 | 19.4 | 19.4 | 9.7  | 0.0  | 6.5  | 3.2 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0  | 100.  |      |
| 9          | 6.5            | 6.5  | 3.2  | 3.2  | 3.2  | 9.7  | 22.6 | 16.1 | 9.7  | 3.2  | 6.5  | 0.0 | 0.0 | 0.0 | 3.2 | 6.5  | 0.0  | 100.  |      |
| 10         | 0.0            | 9.7  | 6.5  | 6.5  | 0.0  | 19.4 | 9.7  | 22.6 | 6.5  | 9.7  | 0.0  | 0.0 | 0.0 | 3.2 | 0.0 | 6.5  | 0.0  | 100.  |      |
| 11         | 3.2            | 3.2  | 6.5  | 6.5  | 6.5  | 16.1 | 16.1 | 9.7  | 12.9 | 3.2  | 6.5  | 0.0 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0  | 100.  |      |
| 12         | 6.7            | 3.3  | 0.0  | 6.7  | 13.3 | 13.3 | 16.7 | 10.0 | 3.3  | 6.7  | 6.7  | 0.0 | 0.0 | 3.3 | 3.3 | 6.7  | 0.0  | 100.  |      |
| 13         | 6.7            | 10.0 | 3.3  | 3.3  | 16.7 | 10.0 | 13.3 | 10.0 | 0.0  | 6.7  | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 0.0  | 100.  |      |
| 14         | 13.3           | 3.3  | 6.7  | 6.7  | 10.0 | 13.3 | 13.3 | 10.0 | 0.0  | 10.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3  | 0.0  | 100.  |      |
| 15         | 10.0           | 3.3  | 13.3 | 0.0  | 3.3  | 26.7 | 10.0 | 10.0 | 6.7  | 10.0 | 3.3  | 0.0 | 0.0 | 0.0 | 0.0 | 3.3  | 0.0  | 100.  |      |
| 16         | 6.5            | 6.5  | 9.7  | 6.5  | 3.2  | 22.6 | 16.1 | 6.5  | 3.2  | 16.1 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 3.2  | 0.0  | 100.  |      |
| 17         | 12.9           | 6.5  | 6.5  | 6.5  | 6.5  | 22.6 | 16.1 | 6.5  | 3.2  | 9.7  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 3.2  | 0.0  | 100.  |      |
| 18         | 3.2            | 3.2  | 6.5  | 12.9 | 9.7  | 12.9 | 9.7  | 12.9 | 6.5  | 6.5  | 3.2  | 0.0 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0  | 100.  |      |
| 19         | 3.2            | 6.5  | 3.2  | 9.7  | 19.4 | 9.7  | 9.7  | 6.5  | 9.7  | 3.2  | 3.2  | 0.0 | 0.0 | 0.0 | 6.5 | 9.7  | 0.0  | 100.  |      |
| 20         | 9.7            | 6.5  | 3.2  | 12.9 | 12.9 | 6.5  | 9.7  | 6.5  | 9.7  | 6.5  | 0.0  | 0.0 | 0.0 | 0.0 | 9.7 | 6.5  | 0.0  | 100.  |      |
| 21         | 9.7            | 9.7  | 3.2  | 12.9 | 12.9 | 6.5  | 12.9 | 3.2  | 16.1 | 3.2  | 3.2  | 0.0 | 0.0 | 0.0 | 0.0 | 6.5  | 0.0  | 100.  |      |
| 22         | 19.4           | 9.7  | 3.2  | 6.5  | 12.9 | 3.2  | 12.9 | 3.2  | 12.9 | 3.2  | 0.0  | 3.2 | 3.2 | 0.0 | 0.0 | 6.5  | 0.0  | 100.  |      |
| 23         | 9.7            | 6.5  | 6.5  | 6.5  | 6.5  | 12.9 | 9.7  | 3.2  | 12.9 | 0.0  | 6.5  | 0.0 | 0.0 | 3.2 | 6.5 | 9.7  | 0.0  | 100.  |      |
| 24         | 6.5            | 0.0  | 6.5  | 9.7  | 6.5  | 9.7  | 12.9 | 12.9 | 9.7  | 0.0  | 3.2  | 3.2 | 3.2 | 0.0 | 6.5 | 12.9 | 0.0  | 100.  |      |
| ALL        | 8.2            | 5.7  | 4.9  | 5.7  | 7.7  | 11.8 | 14.5 | 11.9 | 8.4  | 5.0  | 4.2  | 0.8 | 0.4 | 0.7 | 2.3 | 7.8  | 0.1  | 100.  |      |

NUMBER OF OBS = 740

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

SEPTEMBER

| HR. OF DAY | WIND DIRECTION |     |     |     |      |     |      |      |      |      |     |     |     |     |     |      | TOTAL |      |
|------------|----------------|-----|-----|-----|------|-----|------|------|------|------|-----|-----|-----|-----|-----|------|-------|------|
|            | N              | NNE | NE  | ENE | E    | ESE | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW  | NNW  |       | CALM |
| 1          | 13.0           | 8.7 | 0.0 | 0.0 | 4.3  | 4.3 | 8.7  | 21.7 | 17.4 | 4.3  | 0.0 | 0.0 | 0.0 | 0.0 | 8.7 | 8.7  | 0.0   | 100. |
| 2          | 8.7            | 0.0 | 0.0 | 4.3 | 4.3  | 4.3 | 8.7  | 13.0 | 17.4 | 4.3  | 4.3 | 0.0 | 0.0 | 0.0 | 8.7 | 21.7 | 0.0   | 100. |
| 3          | 17.4           | 0.0 | 0.0 | 0.0 | 4.3  | 8.7 | 4.3  | 13.0 | 17.4 | 8.7  | 4.3 | 0.0 | 0.0 | 4.3 | 4.3 | 8.7  | 4.3   | 100. |
| 4          | 13.0           | 4.3 | 4.3 | 0.0 | 0.0  | 8.7 | 4.3  | 13.0 | 13.0 | 13.0 | 0.0 | 0.0 | 4.3 | 4.3 | 0.0 | 17.4 | 0.0   | 100. |
| 5          | 0.0            | 0.0 | 4.3 | 0.0 | 8.7  | 4.3 | 8.7  | 21.7 | 8.7  | 4.3  | 4.3 | 8.7 | 0.0 | 0.0 | 4.3 | 21.7 | 0.0   | 100. |
| 6          | 4.3            | 0.0 | 4.3 | 4.3 | 0.0  | 4.3 | 17.4 | 21.7 | 4.3  | 17.4 | 4.3 | 0.0 | 0.0 | 4.3 | 8.7 | 17.4 | 0.0   | 100. |
| 7          | 8.7            | 0.0 | 0.0 | 0.0 | 4.3  | 4.3 | 17.4 | 17.4 | 13.0 | 0.0  | 0.0 | 4.3 | 0.0 | 0.0 | 4.3 | 8.7  | 4.3   | 100. |
| 8          | 8.7            | 0.0 | 0.0 | 4.3 | 0.0  | 8.7 | 13.0 | 8.7  | 26.1 | 8.7  | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 13.0 | 0.0   | 100. |
| 9          | 8.7            | 0.0 | 0.0 | 4.3 | 4.3  | 0.0 | 13.0 | 21.7 | 30.4 | 0.0  | 0.0 | 4.3 | 4.3 | 0.0 | 0.0 | 4.3  | 0.0   | 100. |
| 10         | 4.3            | 8.7 | 4.3 | 4.3 | 4.3  | 0.0 | 13.0 | 8.7  | 13.0 | 17.4 | 4.3 | 4.3 | 0.0 | 4.3 | 0.0 | 8.7  | 0.0   | 100. |
| 11         | 4.3            | 0.0 | 4.3 | 0.0 | 4.3  | 4.3 | 13.0 | 8.7  | 13.0 | 17.4 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 21.7 | 0.0   | 100. |
| 12         | 8.7            | 4.3 | 0.0 | 4.3 | 4.3  | 4.3 | 17.4 | 4.3  | 13.0 | 8.7  | 0.0 | 8.7 | 0.0 | 0.0 | 4.3 | 17.4 | 0.0   | 100. |
| 13         | 13.0           | 0.0 | 0.0 | 0.0 | 8.7  | 4.3 | 13.0 | 13.0 | 13.0 | 0.0  | 4.3 | 4.3 | 0.0 | 4.3 | 4.3 | 17.4 | 0.0   | 100. |
| 14         | 16.7           | 0.0 | 0.0 | 0.0 | 4.2  | 4.2 | 16.7 | 4.2  | 16.7 | 4.2  | 4.2 | 4.2 | 0.0 | 8.3 | 4.2 | 12.5 | 0.0   | 100. |
| 15         | 8.7            | 4.3 | 4.3 | 0.0 | 4.3  | 4.3 | 8.7  | 13.0 | 26.1 | 4.3  | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 13.0 | 0.0   | 100. |
| 16         | 4.3            | 4.3 | 4.3 | 4.3 | 4.3  | 0.0 | 17.4 | 4.3  | 26.1 | 4.3  | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 26.1 | 0.0   | 100. |
| 17         | 4.3            | 0.0 | 4.3 | 4.3 | 4.3  | 0.0 | 17.4 | 17.4 | 13.0 | 4.3  | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 26.1 | 0.0   | 100. |
| 18         | 4.3            | 4.3 | 0.0 | 4.3 | 4.3  | 4.3 | 13.0 | 17.4 | 13.0 | 4.3  | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 30.4 | 0.0   | 100. |
| 19         | 0.0            | 0.0 | 4.3 | 0.0 | 4.3  | 0.0 | 21.7 | 21.7 | 8.7  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 26.1 | 0.0   | 100. |
| 20         | 8.7            | 0.0 | 4.3 | 4.3 | 4.3  | 0.0 | 13.0 | 26.1 | 8.7  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 26.1 | 0.0   | 100. |
| 21         | 17.4           | 0.0 | 4.3 | 4.3 | 4.3  | 0.0 | 8.7  | 30.4 | 4.3  | 4.3  | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 13.0 | 4.3   | 100. |
| 22         | 13.0           | 0.0 | 0.0 | 0.0 | 13.0 | 0.0 | 8.7  | 17.4 | 26.1 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.7 | 0.0   | 100. |
| 23         | 8.7            | 0.0 | 4.3 | 0.0 | 8.7  | 4.3 | 13.0 | 13.0 | 17.4 | 13.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 13.0 | 0.0   | 100. |
| 24         | 4.3            | 0.0 | 0.0 | 4.3 | 8.7  | 4.3 | 4.3  | 21.7 | 26.1 | 0.0  | 4.3 | 0.0 | 0.0 | 0.0 | 8.7 | 13.0 | 0.0   | 100. |
| ALL        | 8.5            | 1.8 | 2.2 | 2.0 | 4.5  | 4.0 | 11.4 | 15.2 | 16.6 | 6.5  | 1.8 | 1.8 | 0.4 | 1.6 | 4.5 | 16.6 | 0.5   | 100. |

NUMBER OF OBS = 553

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-SEP 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUL-SEP

| HR. OF DAY | WIND DIRECTION |      |     |     |      |      |      |      |      |      |     |     |     |     |     |      | CALM | TOTAL |
|------------|----------------|------|-----|-----|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|-------|
|            | N              | NNE  | NE  | ENE | E    | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW  | NNW  |      |       |
| 1          | 10.6           | 7.1  | 2.4 | 2.4 | 2.4  | 4.7  | 11.8 | 14.1 | 22.4 | 3.5  | 4.7 | 2.4 | 0.0 | 0.0 | 3.5 | 8.2  | 0.0  | 100.  |
| 2          | 7.1            | 5.9  | 1.2 | 2.4 | 5.9  | 1.2  | 14.1 | 15.3 | 20.0 | 3.5  | 3.5 | 1.2 | 0.0 | 0.0 | 3.5 | 15.3 | 0.0  | 100.  |
| 3          | 11.8           | 4.7  | 2.4 | 2.4 | 3.5  | 5.9  | 10.6 | 14.1 | 15.3 | 4.7  | 4.7 | 1.2 | 0.0 | 2.4 | 2.4 | 12.9 | 1.2  | 100.  |
| 4          | 8.2            | 10.6 | 4.7 | 3.5 | 2.4  | 7.1  | 10.6 | 10.6 | 11.8 | 8.2  | 0.0 | 1.2 | 1.2 | 3.5 | 0.0 | 15.3 | 1.2  | 100.  |
| 5          | 5.9            | 3.5  | 5.9 | 2.4 | 5.9  | 4.7  | 14.1 | 15.3 | 10.6 | 4.7  | 3.5 | 2.4 | 0.0 | 0.0 | 5.9 | 14.1 | 1.2  | 100.  |
| 6          | 8.2            | 2.4  | 3.5 | 2.4 | 5.9  | 1.2  | 11.8 | 21.2 | 12.9 | 5.9  | 4.7 | 0.0 | 1.2 | 2.4 | 4.7 | 11.8 | 0.0  | 100.  |
| 7          | 10.6           | 5.9  | 1.2 | 2.4 | 3.5  | 7.1  | 11.8 | 11.8 | 18.8 | 3.5  | 3.5 | 2.4 | 0.0 | 3.5 | 3.5 | 9.4  | 1.2  | 100.  |
| 8          | 10.6           | 5.9  | 1.2 | 2.4 | 2.4  | 10.6 | 14.1 | 15.3 | 17.6 | 3.5  | 2.4 | 2.4 | 1.2 | 0.0 | 1.2 | 9.4  | 0.0  | 100.  |
| 9          | 8.2            | 4.7  | 3.5 | 4.7 | 2.4  | 8.2  | 11.8 | 15.3 | 16.5 | 9.4  | 3.5 | 1.2 | 0.0 | 0.0 | 1.2 | 9.4  | 0.0  | 100.  |
| 10         | 3.5            | 9.4  | 5.9 | 4.7 | 3.5  | 9.4  | 9.4  | 12.9 | 12.9 | 14.1 | 2.4 | 1.2 | 0.0 | 3.5 | 0.0 | 7.1  | 0.0  | 100.  |
| 11         | 8.2            | 3.5  | 5.9 | 5.9 | 4.7  | 7.1  | 14.1 | 7.1  | 15.3 | 10.6 | 2.4 | 1.2 | 0.0 | 2.4 | 1.2 | 10.6 | 0.0  | 100.  |
| 12         | 9.5            | 4.8  | 0.0 | 7.1 | 8.3  | 7.1  | 13.1 | 10.7 | 9.5  | 9.5  | 2.4 | 3.6 | 0.0 | 1.2 | 2.4 | 10.7 | 0.0  | 100.  |
| 13         | 10.7           | 6.0  | 4.8 | 1.2 | 10.7 | 7.1  | 9.5  | 11.9 | 10.7 | 6.0  | 6.0 | 1.2 | 0.0 | 1.2 | 2.4 | 10.7 | 0.0  | 100.  |
| 14         | 12.9           | 4.7  | 3.5 | 4.7 | 4.7  | 8.2  | 10.6 | 10.6 | 9.4  | 9.4  | 7.1 | 1.2 | 0.0 | 2.4 | 1.2 | 9.4  | 0.0  | 100.  |
| 15         | 10.7           | 6.0  | 6.0 | 1.2 | 3.6  | 11.9 | 11.9 | 9.5  | 16.7 | 7.1  | 1.2 | 2.4 | 0.0 | 2.4 | 1.2 | 8.3  | 0.0  | 100.  |
| 16         | 8.2            | 9.4  | 4.7 | 3.5 | 5.9  | 11.8 | 10.6 | 11.8 | 11.8 | 9.4  | 2.4 | 0.0 | 0.0 | 0.0 | 2.4 | 8.2  | 0.0  | 100.  |
| 17         | 11.8           | 9.4  | 3.5 | 3.5 | 5.9  | 9.4  | 16.5 | 9.4  | 11.8 | 5.9  | 1.2 | 0.0 | 0.0 | 0.0 | 2.4 | 9.4  | 0.0  | 100.  |
| 18         | 8.2            | 5.9  | 5.9 | 5.9 | 5.9  | 7.1  | 15.3 | 16.5 | 5.9  | 5.9  | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 | 15.3 | 0.0  | 100.  |
| 19         | 4.7            | 8.2  | 4.7 | 3.5 | 10.6 | 7.1  | 17.6 | 11.8 | 7.1  | 2.4  | 1.2 | 1.2 | 0.0 | 0.0 | 4.7 | 15.3 | 0.0  | 100.  |
| 20         | 7.1            | 5.9  | 3.5 | 8.2 | 8.2  | 4.7  | 14.1 | 12.9 | 7.1  | 3.5  | 1.2 | 0.0 | 1.2 | 0.0 | 8.2 | 14.1 | 0.0  | 100.  |
| 21         | 11.8           | 3.5  | 4.7 | 5.9 | 8.2  | 4.7  | 11.8 | 17.6 | 9.4  | 2.4  | 1.2 | 1.2 | 0.0 | 0.0 | 2.4 | 14.1 | 1.2  | 100.  |
| 22         | 15.3           | 5.9  | 2.4 | 2.4 | 8.2  | 5.9  | 8.2  | 14.1 | 15.3 | 4.7  | 0.0 | 1.2 | 2.4 | 0.0 | 1.2 | 12.9 | 0.0  | 100.  |
| 23         | 5.9            | 4.7  | 4.7 | 3.5 | 4.7  | 8.2  | 10.6 | 9.4  | 15.3 | 5.9  | 5.9 | 0.0 | 0.0 | 2.4 | 3.5 | 15.3 | 0.0  | 100.  |
| 24         | 4.7            | 2.4  | 2.4 | 4.7 | 7.1  | 5.9  | 9.4  | 14.1 | 18.8 | 4.7  | 1.2 | 2.4 | 2.4 | 0.0 | 4.7 | 15.3 | 0.0  | 100.  |
| ALL        | 8.9            | 5.8  | 3.7 | 3.8 | 5.6  | 6.9  | 12.2 | 13.1 | 13.5 | 6.2  | 2.8 | 1.3 | 0.4 | 1.1 | 2.7 | 11.8 | 0.2  | 100.  |

NUMBER OF OBS = 2037

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

OCTOBER

| HR. OF DAY | WIND DIRECTION |      |     |     |      |      |      |      |      |      |     |     |     |     |     |      | CALM | TOTAL |      |
|------------|----------------|------|-----|-----|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|-------|------|
|            | N              | NNE  | NE  | ENE | E    | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW  | NNW  |      |       |      |
| 1          | 3.4            | 3.4  | 3.4 | 3.4 | 0.0  | 6.9  | 13.8 | 13.8 | 27.6 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 3.4  | 0.0  | 100.  |      |
| 2          | 3.6            | 3.6  | 3.6 | 0.0 | 7.1  | 10.7 | 3.6  | 17.9 | 25.0 | 14.3 | 0.0 | 0.0 | 0.0 | 3.6 | 0.0 | 3.6  | 0.0  | 100.  |      |
| 3          | 3.4            | 0.0  | 3.4 | 3.4 | 0.0  | 13.8 | 10.3 | 20.7 | 13.8 | 10.3 | 3.4 | 3.4 | 3.4 | 0.0 | 3.4 | 6.9  | 0.0  | 100.  |      |
| 4          | 10.3           | 3.4  | 0.0 | 3.4 | 3.4  | 6.9  | 13.8 | 20.7 | 17.2 | 6.9  | 0.0 | 0.0 | 0.0 | 3.4 | 0.0 | 3.4  | 0.0  | 100.  |      |
| 5          | 6.9            | 10.3 | 3.4 | 0.0 | 3.4  | 6.9  | 13.8 | 17.2 | 10.3 | 10.3 | 3.4 | 0.0 | 0.0 | 3.4 | 0.0 | 10.3 | 0.0  | 100.  |      |
| 6          | 3.4            | 10.3 | 0.0 | 0.0 | 6.9  | 10.3 | 6.9  | 24.1 | 24.1 | 0.0  | 0.0 | 0.0 | 0.0 | 3.4 | 0.0 | 3.4  | 3.4  | 100.  |      |
| 7          | 6.9            | 0.0  | 3.4 | 0.0 | 10.3 | 6.9  | 20.7 | 24.1 | 6.9  | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0  | 100.  |      |
| 8          | 10.3           | 6.9  | 3.4 | 0.0 | 3.4  | 6.9  | 13.8 | 13.8 | 24.1 | 10.3 | 0.0 | 0.0 | 0.0 | 3.4 | 0.0 | 3.4  | 0.0  | 100.  |      |
| 9          | 13.8           | 3.4  | 0.0 | 3.4 | 0.0  | 10.3 | 3.4  | 13.8 | 31.0 | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0  | 100.  |      |
| 10         | 6.9            | 3.4  | 0.0 | 0.0 | 6.9  | 6.9  | 3.4  | 3.4  | 27.6 | 17.2 | 6.9 | 3.4 | 0.0 | 0.0 | 3.4 | 10.3 | 0.0  | 100.  |      |
| 11         | 3.4            | 0.0  | 6.9 | 3.4 | 0.0  | 6.9  | 10.3 | 3.4  | 27.6 | 10.3 | 6.9 | 0.0 | 0.0 | 0.0 | 3.4 | 13.8 | 0.0  | 100.  |      |
| 12         | 3.4            | 6.9  | 3.4 | 3.4 | 0.0  | 6.9  | 17.2 | 3.4  | 27.6 | 17.2 | 3.4 | 0.0 | 0.0 | 0.0 | 3.4 | 10.3 | 0.0  | 100.  |      |
| 13         | 3.4            | 3.4  | 3.4 | 0.0 | 0.0  | 6.9  | 17.2 | 3.4  | 27.6 | 17.2 | 3.4 | 0.0 | 0.0 | 0.0 | 3.4 | 10.3 | 0.0  | 100.  |      |
| 14         | 3.4            | 3.4  | 6.9 | 3.4 | 0.0  | 3.4  | 10.3 | 20.7 | 13.8 | 17.2 | 3.4 | 0.0 | 0.0 | 0.0 | 3.4 | 10.3 | 0.0  | 100.  |      |
| 15         | 7.1            | 7.1  | 0.0 | 0.0 | 0.0  | 7.1  | 17.9 | 28.6 | 10.7 | 3.6  | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 7.1  | 0.0  | 100.  |      |
| 16         | 3.6            | 7.1  | 0.0 | 0.0 | 0.0  | 7.1  | 21.4 | 10.7 | 25.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 14.3 | 0.0  | 100.  |      |
| 17         | 3.4            | 3.4  | 3.4 | 3.4 | 0.0  | 6.9  | 13.8 | 13.8 | 17.2 | 17.2 | 0.0 | 0.0 | 0.0 | 3.4 | 0.0 | 13.8 | 0.0  | 100.  |      |
| 18         | 3.4            | 6.9  | 0.0 | 3.4 | 0.0  | 10.3 | 17.2 | 13.8 | 24.1 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.8 | 0.0  | 100.  |      |
| 19         | 13.8           | 0.0  | 0.0 | 0.0 | 3.4  | 6.9  | 3.4  | 27.6 | 17.2 | 10.3 | 0.0 | 0.0 | 0.0 | 6.9 | 0.0 | 3.4  | 13.8 | 0.0   | 100. |
| 20         | 13.8           | 0.0  | 0.0 | 0.0 | 3.4  | 3.4  | 10.3 | 24.1 | 3.4  | 17.2 | 3.4 | 3.4 | 0.0 | 0.0 | 0.0 | 6.9  | 6.9  | 100.  |      |
| 21         | 6.9            | 6.9  | 0.0 | 0.0 | 0.0  | 6.9  | 17.2 | 17.2 | 13.8 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.8 | 3.4  | 100.  |      |
| 22         | 3.4            | 6.9  | 0.0 | 0.0 | 0.0  | 3.4  | 6.9  | 31.0 | 17.2 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.2 | 0.0  | 100.  |      |
| 23         | 6.9            | 6.9  | 3.4 | 0.0 | 0.0  | 3.4  | 17.2 | 13.8 | 27.6 | 3.4  | 3.4 | 0.0 | 0.0 | 3.4 | 0.0 | 10.3 | 0.0  | 100.  |      |
| 24         | 0.0            | 6.9  | 3.4 | 0.0 | 0.0  | 6.9  | 10.3 | 24.1 | 24.1 | 3.4  | 0.0 | 3.4 | 0.0 | 0.0 | 3.4 | 13.8 | 0.0  | 100.  |      |
| ALL        | 6.1            | 4.6  | 2.2 | 1.3 | 2.2  | 7.1  | 10.7 | 16.9 | 20.2 | 11.5 | 2.0 | 0.7 | 1.4 | 0.4 | 2.6 | 9.5  | 0.6  | 100.  |      |

NUMBER OF OBS = 693



NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

NOVEMBER

| HR. OF DAY | WIND DIRECTION |     |     |     |     |     |      |      |      |      |     |      |      |      |      |      | CALM | TOTAL |
|------------|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|------|------|------|------|------|------|-------|
|            | N              | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW  | WSW  | W    | WNW  | NW   | NNW  |      |       |
| 1          | 6.7            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 16.7 | 13.3 | 0.0  | 3.3 | 3.3  | 20.0 | 13.3 | 10.0 | 3.3  | 0.0  | 100.  |
| 2          | 10.0           | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7  | 16.7 | 10.0 | 3.3  | 0.0 | 6.7  | 16.7 | 13.3 | 13.3 | 3.3  | 0.0  | 100.  |
| 3          | 3.3            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3  | 13.3 | 13.3 | 0.0  | 3.3 | 10.0 | 16.7 | 10.0 | 13.3 | 13.3 | 0.0  | 100.  |
| 4          | 6.7            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7  | 13.3 | 6.7  | 3.3  | 0.0 | 13.3 | 16.7 | 13.3 | 10.0 | 10.0 | 0.0  | 100.  |
| 5          | 0.0            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3  | 6.7  | 16.7 | 3.3  | 6.7 | 13.3 | 20.0 | 10.0 | 13.3 | 6.7  | 0.0  | 100.  |
| 6          | 3.3            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 13.3 | 10.0 | 0.0  | 3.3 | 10.0 | 13.3 | 13.3 | 10.0 | 10.0 | 0.0  | 100.  |
| 7          | 10.0           | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 13.3 | 0.0  | 0.0  | 0.0 | 3.3  | 26.7 | 13.3 | 10.0 | 6.7  | 0.0  | 100.  |
| 8          | 6.7            | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 6.7  | 3.3  | 3.3  | 3.3 | 6.7  | 23.3 | 10.0 | 6.7  | 16.7 | 0.0  | 100.  |
| 9          | 3.3            | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 13.3 | 10.0 | 0.0  | 0.0 | 10.0 | 20.0 | 3.3  | 13.3 | 10.0 | 0.0  | 100.  |
| 10         | 0.0            | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7  | 16.7 | 6.7  | 3.3  | 0.0 | 3.3  | 20.0 | 3.3  | 20.0 | 13.3 | 0.0  | 100.  |
| 11         | 6.7            | 6.7 | 0.0 | 0.0 | 0.0 | 3.3 | 6.7  | 3.3  | 13.3 | 3.3  | 0.0 | 3.3  | 20.0 | 6.7  | 16.7 | 6.7  | 0.0  | 100.  |
| 12         | 6.7            | 3.3 | 0.0 | 0.0 | 0.0 | 3.3 | 6.7  | 10.0 | 10.0 | 3.3  | 3.3 | 3.3  | 20.0 | 6.7  | 20.0 | 3.3  | 0.0  | 100.  |
| 13         | 3.3            | 3.3 | 3.3 | 0.0 | 0.0 | 0.0 | 3.3  | 10.0 | 6.7  | 0.0  | 3.3 | 6.7  | 16.7 | 16.7 | 10.0 | 13.3 | 0.0  | 100.  |
| 14         | 0.0            | 0.0 | 6.7 | 3.3 | 0.0 | 3.3 | 6.7  | 3.3  | 3.3  | 0.0  | 6.7 | 6.7  | 13.3 | 20.0 | 16.7 | 6.7  | 0.0  | 100.  |
| 15         | 0.0            | 6.7 | 3.3 | 0.0 | 3.3 | 0.0 | 3.3  | 6.7  | 3.3  | 0.0  | 6.7 | 6.7  | 6.7  | 13.3 | 26.7 | 6.7  | 0.0  | 100.  |
| 16         | 10.0           | 3.3 | 3.3 | 0.0 | 3.3 | 0.0 | 6.7  | 3.3  | 6.7  | 3.3  | 0.0 | 10.0 | 10.0 | 13.3 | 10.0 | 13.3 | 0.0  | 100.  |
| 17         | 16.7           | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3  | 6.7  | 6.7  | 3.3  | 3.3 | 6.7  | 6.7  | 13.3 | 20.0 | 6.7  | 0.0  | 100.  |
| 18         | 6.7            | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3  | 6.7  | 6.7  | 3.3  | 3.3 | 3.3  | 13.3 | 6.7  | 20.0 | 6.7  | 0.0  | 100.  |
| 19         | 6.7            | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 6.7  | 6.7  | 6.7  | 0.0 | 3.3  | 13.3 | 10.0 | 13.3 | 20.0 | 0.0  | 100.  |
| 20         | 6.7            | 0.0 | 6.7 | 0.0 | 0.0 | 0.0 | 3.3  | 6.7  | 3.3  | 6.7  | 6.7 | 6.7  | 13.3 | 16.7 | 10.0 | 16.7 | 0.0  | 100.  |
| 21         | 3.3            | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 6.7  | 3.3  | 10.0 | 6.7  | 6.7 | 10.0 | 6.7  | 16.7 | 16.7 | 6.7  | 0.0  | 100.  |
| 22         | 10.0           | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7  | 10.0 | 3.3  | 10.0 | 6.7 | 10.0 | 6.7  | 16.7 | 16.7 | 6.7  | 0.0  | 100.  |
| 23         | 10.0           | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7  | 3.3  | 6.7  | 3.3  | 0.0 | 20.0 | 6.7  | 16.7 | 6.7  | 10.0 | 0.0  | 100.  |
| 24         | 6.7            | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3  | 16.7 | 10.0 | 3.3  | 6.7 | 3.3  | 23.3 | 6.7  | 16.7 | 3.3  | 0.0  | 100.  |
| ALL        | 6.0            | 2.1 | 1.0 | 0.1 | 0.8 | 2.4 | 6.7  | 9.2  | 8.5  | 3.1  | 3.9 | 6.7  | 16.2 | 11.0 | 13.7 | 8.7  | 0.0  | 100.  |

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

DECEMBER

| HR. OF DAY | WIND DIRECTION |     |     |     |     |      |      |      |      |     |      |     |     |      |      |      | CALM | TOTAL |      |
|------------|----------------|-----|-----|-----|-----|------|------|------|------|-----|------|-----|-----|------|------|------|------|-------|------|
|            | N              | NNE | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW | SW   | WSW | W   | WNW  | NW   | NNW  |      |       |      |
| 1          | 6.5            | 0.0 | 0.0 | 3.2 | 6.5 | 3.2  | 9.7  | 6.5  | 9.7  | 3.2 | 3.2  | 0.0 | 6.5 | 0.0  | 32.3 | 9.7  | 0.0  | 100.  |      |
| 2          | 6.5            | 0.0 | 3.2 | 3.2 | 0.0 | 0.0  | 16.1 | 9.7  | 3.2  | 3.2 | 3.2  | 3.2 | 0.0 | 3.2  | 6.5  | 29.0 | 12.9 | 0.0   | 100. |
| 3          | 12.9           | 3.2 | 3.2 | 0.0 | 0.0 | 0.0  | 9.7  | 19.4 | 0.0  | 6.5 | 3.2  | 0.0 | 3.2 | 16.1 | 9.7  | 12.9 | 0.0  | 100.  |      |
| 4          | 6.5            | 3.2 | 0.0 | 3.2 | 0.0 | 6.5  | 3.2  | 9.7  | 6.5  | 6.5 | 6.5  | 0.0 | 3.2 | 9.7  | 19.4 | 16.1 | 0.0  | 100.  |      |
| 5          | 9.7            | 6.5 | 0.0 | 6.5 | 0.0 | 6.5  | 6.5  | 6.5  | 3.2  | 0.0 | 6.5  | 3.2 | 6.5 | 6.5  | 22.6 | 9.7  | 0.0  | 100.  |      |
| 6          | 9.7            | 3.2 | 0.0 | 3.2 | 3.2 | 0.0  | 6.5  | 12.9 | 3.2  | 3.2 | 6.5  | 3.2 | 3.2 | 9.7  | 22.6 | 9.7  | 0.0  | 100.  |      |
| 7          | 16.1           | 3.2 | 0.0 | 3.2 | 3.2 | 0.0  | 9.7  | 6.5  | 6.5  | 0.0 | 3.2  | 9.7 | 3.2 | 9.7  | 19.4 | 9.7  | 0.0  | 100.  |      |
| 8          | 9.7            | 3.2 | 0.0 | 3.2 | 3.2 | 0.0  | 9.7  | 6.5  | 12.9 | 3.2 | 0.0  | 6.5 | 3.2 | 12.9 | 16.1 | 9.7  | 0.0  | 100.  |      |
| 9          | 6.5            | 3.2 | 0.0 | 0.0 | 6.5 | 0.0  | 6.5  | 9.7  | 9.7  | 0.0 | 0.0  | 6.5 | 9.7 | 6.5  | 16.1 | 16.1 | 3.2  | 100.  |      |
| 10         | 12.9           | 0.0 | 3.2 | 0.0 | 6.5 | 0.0  | 6.5  | 12.9 | 6.5  | 0.0 | 0.0  | 6.5 | 3.2 | 6.5  | 19.4 | 16.1 | 0.0  | 100.  |      |
| 11         | 12.9           | 6.5 | 0.0 | 3.2 | 3.2 | 3.2  | 3.2  | 6.5  | 12.9 | 3.2 | 0.0  | 3.2 | 3.2 | 12.9 | 16.1 | 9.7  | 0.0  | 100.  |      |
| 12         | 12.9           | 0.0 | 0.0 | 3.2 | 6.5 | 0.0  | 9.7  | 3.2  | 9.7  | 3.2 | 3.2  | 3.2 | 9.7 | 6.5  | 19.4 | 9.7  | 0.0  | 100.  |      |
| 13         | 12.9           | 0.0 | 6.5 | 3.2 | 3.2 | 0.0  | 6.5  | 0.0  | 16.1 | 6.5 | 0.0  | 0.0 | 9.7 | 3.2  | 25.8 | 6.5  | 0.0  | 100.  |      |
| 14         | 12.9           | 0.0 | 6.5 | 3.2 | 0.0 | 3.2  | 6.5  | 3.2  | 16.1 | 3.2 | 0.0  | 3.2 | 3.2 | 12.9 | 19.4 | 6.5  | 0.0  | 100.  |      |
| 15         | 16.1           | 0.0 | 9.7 | 0.0 | 0.0 | 12.9 | 3.2  | 0.0  | 12.9 | 0.0 | 0.0  | 6.5 | 3.2 | 6.5  | 22.6 | 6.5  | 0.0  | 100.  |      |
| 16         | 9.7            | 6.5 | 3.2 | 3.2 | 3.2 | 3.2  | 9.7  | 6.5  | 6.5  | 0.0 | 3.2  | 0.0 | 3.2 | 3.2  | 29.0 | 9.7  | 0.0  | 100.  |      |
| 17         | 9.7            | 6.5 | 3.2 | 3.2 | 0.0 | 3.2  | 12.9 | 12.9 | 3.2  | 0.0 | 0.0  | 3.2 | 0.0 | 9.7  | 32.3 | 0.0  | 0.0  | 100.  |      |
| 18         | 9.7            | 3.2 | 0.0 | 3.2 | 3.2 | 6.5  | 9.7  | 9.7  | 3.2  | 0.0 | 3.2  | 0.0 | 3.2 | 6.5  | 25.8 | 12.9 | 0.0  | 100.  |      |
| 19         | 6.5            | 3.2 | 6.5 | 3.2 | 0.0 | 3.2  | 6.5  | 12.9 | 6.5  | 0.0 | 3.2  | 0.0 | 6.5 | 0.0  | 25.8 | 12.9 | 0.0  | 100.  |      |
| 20         | 9.7            | 3.2 | 3.2 | 6.5 | 0.0 | 6.5  | 6.5  | 12.9 | 3.2  | 3.2 | 0.0  | 0.0 | 0.0 | 3.2  | 16.1 | 22.6 | 0.0  | 100.  |      |
| 21         | 9.7            | 3.2 | 3.2 | 3.2 | 3.2 | 3.2  | 12.9 | 9.7  | 3.2  | 3.2 | 0.0  | 0.0 | 0.0 | 3.2  | 12.9 | 19.4 | 3.2  | 100.  |      |
| 22         | 3.2            | 6.5 | 6.5 | 3.2 | 3.2 | 3.2  | 19.4 | 6.5  | 9.7  | 0.0 | 3.2  | 0.0 | 0.0 | 9.7  | 12.9 | 16.1 | 0.0  | 100.  |      |
| 23         | 3.2            | 3.2 | 0.0 | 9.7 | 0.0 | 3.2  | 19.4 | 0.0  | 12.9 | 3.2 | 3.2  | 0.0 | 0.0 | 6.5  | 19.4 | 16.1 | 0.0  | 100.  |      |
| 24         | 6.5            | 3.2 | 0.0 | 9.7 | 0.0 | 0.0  | 12.9 | 6.5  | 0.0  | 6.5 | 12.9 | 0.0 | 0.0 | 3.2  | 25.8 | 12.9 | 0.0  | 100.  |      |
| ALL        | 9.7            | 3.0 | 2.4 | 3.5 | 2.3 | 2.8  | 8.9  | 7.8  | 7.4  | 2.4 | 2.7  | 2.4 | 3.8 | 7.0  | 22.0 | 11.7 | 0.3  | 100.  |      |

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION OCT-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

OCT-DEC

| HR. OF DAY | WIND DIRECTION |     |     |     |     |     |      |      |      |      |     |     |      |      |      |      | CALM | TOTAL |
|------------|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|------|------|------|------|------|-------|
|            | N              | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW  | WSW | W    | WNW  | NW   | NNW  |      |       |
| 1          | 5.6            | 1.1 | 1.1 | 2.2 | 2.2 | 3.3 | 11.1 | 12.2 | 16.7 | 5.6  | 2.2 | 1.1 | 8.9  | 4.4  | 16.7 | 5.6  | 0.0  | 100.  |
| 2          | 6.7            | 1.1 | 2.2 | 1.1 | 2.2 | 3.4 | 9.0  | 14.6 | 12.4 | 6.7  | 1.1 | 3.4 | 6.7  | 7.9  | 14.6 | 6.7  | 0.0  | 100.  |
| 3          | 6.7            | 1.1 | 2.2 | 1.1 | 0.0 | 4.4 | 7.8  | 17.8 | 8.9  | 5.6  | 3.3 | 4.4 | 7.8  | 8.9  | 8.9  | 11.1 | 0.0  | 100.  |
| 4          | 7.8            | 2.2 | 0.0 | 2.2 | 1.1 | 4.4 | 7.8  | 14.4 | 10.0 | 5.6  | 2.2 | 4.4 | 7.8  | 7.8  | 12.2 | 10.0 | 0.0  | 100.  |
| 5          | 5.6            | 5.6 | 1.1 | 2.2 | 1.1 | 4.4 | 7.8  | 10.0 | 10.0 | 4.4  | 5.6 | 5.6 | 10.0 | 5.6  | 15.6 | 5.6  | 0.0  | 100.  |
| 6          | 5.6            | 4.4 | 0.0 | 1.1 | 3.3 | 3.3 | 8.9  | 16.7 | 12.2 | 1.1  | 3.3 | 4.4 | 6.7  | 7.8  | 12.2 | 7.8  | 1.1  | 100.  |
| 7          | 11.1           | 1.1 | 1.1 | 1.1 | 4.4 | 3.3 | 13.3 | 14.4 | 4.4  | 3.3  | 1.1 | 4.4 | 10.0 | 7.8  | 10.0 | 8.9  | 0.0  | 100.  |
| 8          | 8.9            | 3.3 | 1.1 | 1.1 | 2.2 | 2.2 | 12.2 | 8.9  | 13.3 | 5.6  | 1.1 | 4.4 | 10.0 | 7.8  | 7.8  | 10.0 | 0.0  | 100.  |
| 9          | 7.8            | 3.3 | 0.0 | 1.1 | 2.2 | 4.4 | 6.7  | 12.2 | 16.7 | 3.3  | 0.0 | 5.6 | 10.0 | 3.3  | 10.0 | 12.2 | 1.1  | 100.  |
| 10         | 6.7            | 3.3 | 1.1 | 0.0 | 4.4 | 2.2 | 5.6  | 11.1 | 13.3 | 6.7  | 2.2 | 4.4 | 7.8  | 3.3  | 14.4 | 13.3 | 0.0  | 100.  |
| 11         | 7.8            | 4.4 | 2.2 | 1.1 | 3.3 | 4.4 | 6.7  | 4.4  | 15.6 | 6.7  | 3.3 | 3.3 | 8.9  | 6.7  | 11.1 | 10.0 | 0.0  | 100.  |
| 12         | 7.8            | 3.3 | 1.1 | 2.2 | 2.2 | 3.3 | 8.9  | 5.6  | 15.6 | 5.6  | 4.4 | 2.2 | 10.0 | 4.4  | 14.4 | 8.9  | 0.0  | 100.  |
| 13         | 6.7            | 2.2 | 4.4 | 1.1 | 1.1 | 3.3 | 8.9  | 4.4  | 16.7 | 7.8  | 2.2 | 2.2 | 8.9  | 6.7  | 13.3 | 10.0 | 0.0  | 100.  |
| 14         | 5.6            | 1.1 | 6.7 | 3.3 | 0.0 | 3.3 | 7.8  | 10.0 | 11.1 | 7.8  | 2.2 | 3.3 | 5.6  | 11.1 | 13.3 | 7.8  | 0.0  | 100.  |
| 15         | 7.9            | 4.5 | 4.5 | 0.0 | 1.1 | 9.0 | 4.5  | 7.9  | 14.6 | 3.4  | 3.4 | 4.5 | 3.4  | 6.7  | 18.0 | 6.7  | 0.0  | 100.  |
| 16         | 7.9            | 5.6 | 2.2 | 1.1 | 2.2 | 3.4 | 7.9  | 10.1 | 7.9  | 10.1 | 1.1 | 3.4 | 4.5  | 5.6  | 14.6 | 12.4 | 0.0  | 100.  |
| 17         | 10.0           | 3.3 | 2.2 | 1.1 | 2.2 | 3.3 | 10.0 | 11.1 | 8.9  | 7.8  | 1.1 | 2.2 | 4.4  | 6.7  | 17.8 | 6.7  | 0.0  | 100.  |
| 18         | 6.7            | 4.4 | 0.0 | 2.2 | 1.1 | 6.7 | 10.0 | 8.9  | 14.4 | 1.1  | 2.2 | 2.2 | 5.6  | 5.6  | 13.3 | 15.6 | 0.0  | 100.  |
| 19         | 8.9            | 3.3 | 2.2 | 1.1 | 1.1 | 3.3 | 7.8  | 14.4 | 10.0 | 5.6  | 1.1 | 1.1 | 5.6  | 4.4  | 15.6 | 14.4 | 0.0  | 100.  |
| 20         | 10.0           | 1.1 | 3.3 | 3.3 | 1.1 | 4.4 | 6.7  | 14.4 | 3.3  | 8.9  | 3.3 | 3.3 | 6.7  | 5.6  | 12.2 | 10.0 | 2.2  | 100.  |
| 21         | 6.7            | 3.3 | 1.1 | 1.1 | 2.2 | 5.6 | 7.8  | 10.0 | 10.0 | 7.8  | 2.2 | 3.3 | 4.4  | 6.7  | 12.2 | 14.4 | 1.1  | 100.  |
| 22         | 5.6            | 4.4 | 2.2 | 1.1 | 1.1 | 4.4 | 8.9  | 13.3 | 12.2 | 6.7  | 4.4 | 1.1 | 5.6  | 5.6  | 8.9  | 13.3 | 1.1  | 100.  |
| 23         | 6.7            | 4.4 | 1.1 | 3.3 | 0.0 | 3.3 | 14.4 | 5.6  | 15.6 | 2.2  | 8.9 | 2.2 | 5.6  | 5.6  | 12.2 | 8.9  | 0.0  | 100.  |
| 24         | 4.4            | 4.4 | 1.1 | 3.3 | 0.0 | 3.3 | 8.9  | 15.6 | 11.1 | 4.4  | 6.7 | 2.2 | 7.8  | 3.3  | 13.3 | 10.0 | 0.0  | 100.  |
| ALL        | 7.3            | 3.2 | 1.9 | 1.7 | 1.8 | 4.0 | 8.7  | 11.2 | 11.9 | 5.6  | 2.9 | 3.3 | 7.2  | 6.2  | 13.0 | 10.0 | 0.3  | 100.  |

NUMBER OF OBS = 2157

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JUL-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUL-DEC

| HR. OF DAY | WIND DIRECTION |     |     |     |     |      |      |      |      |      |     |     |     |     |      |      | CALM | TOTAL |
|------------|----------------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|------|------|------|-------|
|            | N              | NNE | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  |      |       |
| 1          | 8.0            | 4.0 | 1.7 | 2.3 | 2.3 | 4.0  | 11.4 | 13.1 | 19.4 | 4.6  | 3.4 | 1.7 | 4.6 | 2.3 | 10.3 | 6.9  | 0.0  | 100.  |
| 2          | 6.9            | 3.4 | 1.7 | 1.7 | 4.0 | 2.3  | 11.5 | 14.9 | 16.1 | 5.2  | 2.3 | 2.3 | 3.4 | 4.0 | 9.2  | 10.9 | 0.0  | 100.  |
| 3          | 9.1            | 2.9 | 2.3 | 1.7 | 1.7 | 5.1  | 9.1  | 16.0 | 12.0 | 5.1  | 4.0 | 2.9 | 4.0 | 5.7 | 5.7  | 12.0 | 0.6  | 100.  |
| 4          | 8.0            | 6.3 | 2.3 | 2.9 | 1.7 | 5.7  | 9.1  | 12.6 | 10.9 | 6.9  | 1.1 | 2.9 | 4.6 | 5.7 | 6.3  | 12.6 | 0.6  | 100.  |
| 5          | 5.7            | 4.6 | 3.4 | 2.3 | 3.4 | 4.6  | 10.9 | 12.6 | 10.3 | 4.6  | 4.6 | 4.0 | 5.1 | 2.9 | 10.9 | 9.7  | 0.6  | 100.  |
| 6          | 6.9            | 3.4 | 1.7 | 1.7 | 4.6 | 2.3  | 10.3 | 18.9 | 12.6 | 3.4  | 2.3 | 2.3 | 4.0 | 5.1 | 8.6  | 9.7  | 0.6  | 100.  |
| 7          | 10.9           | 3.4 | 1.1 | 1.7 | 4.0 | 5.1  | 12.6 | 13.1 | 11.4 | 3.4  | 4.0 | 3.4 | 5.1 | 5.7 | 6.9  | 9.1  | 0.6  | 100.  |
| 8          | 9.7            | 4.6 | 1.1 | 1.7 | 2.3 | 6.3  | 13.1 | 12.0 | 15.4 | 4.6  | 1.7 | 3.4 | 5.7 | 4.0 | 4.6  | 9.7  | 0.0  | 100.  |
| 9          | 8.0            | 4.0 | 1.7 | 2.9 | 2.3 | 6.3  | 9.1  | 13.7 | 16.6 | 6.3  | 1.7 | 3.4 | 5.1 | 1.7 | 5.7  | 10.9 | 0.6  | 100.  |
| 10         | 5.1            | 6.3 | 3.4 | 2.3 | 4.0 | 5.7  | 7.4  | 12.0 | 13.1 | 10.3 | 2.3 | 2.9 | 4.0 | 3.4 | 7.4  | 10.3 | 0.0  | 100.  |
| 11         | 8.0            | 4.0 | 4.0 | 3.4 | 4.0 | 5.7  | 10.3 | 5.7  | 15.4 | 8.6  | 2.9 | 2.3 | 4.6 | 4.6 | 6.3  | 10.3 | 0.0  | 100.  |
| 12         | 8.6            | 4.0 | 0.6 | 4.6 | 5.2 | 5.2  | 10.9 | 8.0  | 12.6 | 7.5  | 3.4 | 2.9 | 5.2 | 2.9 | 8.6  | 9.8  | 0.0  | 100.  |
| 13         | 8.6            | 4.0 | 4.6 | 1.1 | 5.7 | 5.2  | 9.2  | 8.0  | 13.8 | 6.9  | 4.0 | 1.7 | 4.6 | 4.0 | 8.0  | 10.3 | 0.0  | 100.  |
| 14         | 9.1            | 2.9 | 5.1 | 4.0 | 2.3 | 5.7  | 9.1  | 10.3 | 10.3 | 8.6  | 4.6 | 2.3 | 2.9 | 6.9 | 7.4  | 8.6  | 0.0  | 100.  |
| 15         | 9.2            | 5.2 | 5.2 | 0.6 | 2.3 | 10.4 | 8.1  | 8.7  | 15.6 | 5.2  | 2.3 | 3.5 | 1.7 | 4.6 | 9.8  | 7.5  | 0.0  | 100.  |
| 16         | 8.0            | 7.5 | 3.4 | 2.3 | 4.0 | 7.5  | 9.2  | 10.9 | 9.8  | 9.8  | 1.7 | 1.7 | 2.3 | 2.9 | 8.6  | 10.3 | 0.0  | 100.  |
| 17         | 10.9           | 6.3 | 2.9 | 2.9 | 4.0 | 6.3  | 13.1 | 10.3 | 10.3 | 6.9  | 1.1 | 1.1 | 2.3 | 3.4 | 10.3 | 8.0  | 0.0  | 100.  |
| 18         | 7.4            | 5.1 | 2.9 | 4.0 | 3.4 | 6.9  | 12.6 | 12.6 | 10.3 | 3.4  | 1.7 | 1.1 | 2.9 | 2.9 | 7.4  | 15.4 | 0.0  | 100.  |
| 19         | 6.9            | 5.7 | 3.4 | 2.3 | 5.7 | 5.1  | 12.6 | 13.1 | 8.6  | 4.0  | 1.1 | 1.1 | 2.9 | 2.3 | 10.3 | 14.9 | 0.0  | 100.  |
| 20         | 8.6            | 3.4 | 3.4 | 5.7 | 4.6 | 4.6  | 10.3 | 13.7 | 5.1  | 6.3  | 2.3 | 1.7 | 4.0 | 2.9 | 10.3 | 12.0 | 1.1  | 100.  |
| 21         | 9.1            | 3.4 | 2.9 | 3.4 | 5.1 | 5.1  | 9.7  | 13.7 | 9.7  | 5.1  | 1.7 | 2.3 | 2.3 | 3.4 | 7.4  | 14.3 | 1.1  | 100.  |
| 22         | 10.3           | 5.1 | 2.3 | 1.7 | 4.6 | 5.1  | 8.6  | 13.7 | 13.7 | 5.7  | 2.3 | 1.1 | 4.0 | 2.9 | 5.1  | 13.1 | 0.6  | 100.  |
| 23         | 6.3            | 4.6 | 2.9 | 3.4 | 2.3 | 5.7  | 12.6 | 7.4  | 15.4 | 4.0  | 7.4 | 1.1 | 2.9 | 4.0 | 8.0  | 12.0 | 0.0  | 100.  |
| 24         | 4.6            | 3.4 | 1.7 | 4.0 | 3.4 | 4.6  | 9.1  | 14.9 | 14.9 | 4.6  | 4.0 | 2.3 | 5.1 | 1.7 | 9.1  | 12.6 | 0.0  | 100.  |
| ALL        | 8.1            | 4.5 | 2.7 | 2.7 | 3.6 | 5.4  | 10.4 | 12.1 | 12.6 | 5.9  | 2.8 | 2.3 | 3.9 | 3.7 | 8.0  | 10.9 | 0.3  | 100.  |

NUMBER OF OBS = 4194

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-DEC

| HR. OF DAY | WIND DIRECTION |     |     |     |     |     |      |      |      |      |     |     |     |     |      |      | CALM | TOTAL |      |
|------------|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|------|------|------|-------|------|
|            | N              | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  |      |       |      |
| 1          | 9.0            | 3.4 | 2.0 | 2.0 | 1.7 | 4.8 | 9.3  | 12.4 | 18.6 | 5.6  | 3.1 | 2.0 | 3.1 | 3.1 | 4.2  | 9.9  | 8.7  | 0.3   | 100. |
| 2          | 8.5            | 3.4 | 1.4 | 2.3 | 2.5 | 2.8 | 10.5 | 12.5 | 17.0 | 5.4  | 2.0 | 2.3 | 2.5 | 4.5 | 9.9  | 12.5 | 0.0  | 100.  |      |
| 3          | 10.4           | 3.1 | 2.0 | 2.0 | 2.5 | 5.4 | 8.2  | 14.6 | 12.4 | 5.9  | 3.7 | 2.8 | 3.1 | 5.1 | 8.5  | 10.1 | 0.3  | 100.  |      |
| 4          | 8.5            | 4.8 | 2.0 | 3.4 | 3.4 | 4.2 | 7.0  | 14.9 | 13.5 | 6.2  | 0.8 | 2.0 | 3.1 | 4.8 | 8.5  | 12.1 | 0.8  | 100.  |      |
| 5          | 9.0            | 3.7 | 2.8 | 2.0 | 3.1 | 3.9 | 9.9  | 16.6 | 9.9  | 4.8  | 3.7 | 2.5 | 5.1 | 3.7 | 11.0 | 8.2  | 0.3  | 100.  |      |
| 6          | 7.9            | 4.8 | 2.3 | 1.4 | 3.7 | 3.7 | 8.5  | 18.0 | 11.5 | 5.4  | 3.1 | 3.4 | 3.1 | 4.8 | 7.6  | 10.7 | 0.3  | 100.  |      |
| 7          | 10.4           | 3.7 | 1.7 | 2.3 | 3.7 | 5.4 | 11.3 | 12.1 | 14.6 | 3.9  | 1.4 | 3.1 | 4.2 | 5.9 | 7.6  | 8.5  | 0.3  | 100.  |      |
| 8          | 8.5            | 3.9 | 1.7 | 2.5 | 3.1 | 4.8 | 11.5 | 12.4 | 15.8 | 5.4  | 2.5 | 3.9 | 4.2 | 3.9 | 6.5  | 9.3  | 0.0  | 100.  |      |
| 9          | 7.6            | 3.7 | 1.4 | 3.1 | 3.1 | 5.9 | 7.3  | 13.0 | 16.1 | 6.5  | 3.4 | 3.4 | 4.8 | 3.1 | 6.8  | 10.5 | 0.3  | 100.  |      |
| 10         | 6.8            | 4.5 | 3.1 | 2.3 | 4.8 | 5.1 | 5.9  | 11.9 | 13.6 | 9.9  | 3.7 | 3.1 | 4.5 | 3.7 | 7.3  | 9.9  | 0.0  | 100.  |      |
| 11         | 6.8            | 3.7 | 3.1 | 1.7 | 4.2 | 6.5 | 7.9  | 7.6  | 14.7 | 8.8  | 3.4 | 3.1 | 4.8 | 4.5 | 7.1  | 12.1 | 0.0  | 100.  |      |
| 12         | 9.1            | 4.0 | 1.4 | 2.8 | 4.0 | 5.7 | 9.3  | 9.3  | 13.6 | 8.5  | 3.4 | 3.7 | 4.2 | 4.0 | 7.1  | 9.9  | 0.0  | 100.  |      |
| 13         | 9.1            | 3.7 | 2.8 | 2.0 | 4.5 | 5.1 | 7.1  | 9.6  | 13.9 | 8.2  | 3.4 | 3.1 | 4.2 | 4.8 | 7.9  | 10.5 | 0.0  | 100.  |      |
| 14         | 9.0            | 3.4 | 3.7 | 2.3 | 2.8 | 5.1 | 6.8  | 10.7 | 11.9 | 10.2 | 3.7 | 4.2 | 3.1 | 5.6 | 7.6  | 9.9  | 0.0  | 100.  |      |
| 15         | 7.7            | 3.7 | 4.5 | 1.1 | 2.6 | 6.5 | 9.1  | 8.2  | 14.8 | 8.2  | 2.3 | 3.7 | 2.8 | 4.8 | 9.4  | 10.5 | 0.0  | 100.  |      |
| 16         | 6.5            | 5.9 | 2.8 | 2.5 | 4.0 | 5.9 | 8.2  | 9.3  | 12.5 | 9.9  | 2.3 | 2.8 | 2.5 | 4.0 | 7.6  | 13.0 | 0.0  | 100.  |      |
| 17         | 8.5            | 5.4 | 2.8 | 2.8 | 2.8 | 5.4 | 9.3  | 10.1 | 12.7 | 7.9  | 2.8 | 3.1 | 2.0 | 3.9 | 9.0  | 11.5 | 0.0  | 100.  |      |
| 18         | 7.9            | 4.5 | 3.4 | 3.4 | 3.4 | 4.8 | 9.9  | 11.8 | 11.8 | 4.8  | 3.7 | 3.1 | 1.7 | 3.4 | 7.0  | 15.5 | 0.0  | 100.  |      |
| 19         | 7.0            | 3.9 | 3.9 | 3.7 | 3.9 | 4.2 | 9.3  | 11.5 | 12.7 | 4.8  | 3.4 | 1.1 | 3.7 | 2.5 | 8.5  | 15.8 | 0.0  | 100.  |      |
| 20         | 8.5            | 3.1 | 3.1 | 4.5 | 3.9 | 3.4 | 7.0  | 14.1 | 10.7 | 7.3  | 2.0 | 2.0 | 3.7 | 3.1 | 10.1 | 13.0 | 0.6  | 100.  |      |
| 21         | 9.3            | 2.3 | 3.1 | 3.4 | 4.2 | 3.9 | 7.9  | 13.8 | 13.0 | 5.4  | 2.0 | 2.3 | 2.8 | 3.1 | 8.7  | 14.4 | 0.6  | 100.  |      |
| 22         | 11.0           | 3.7 | 2.5 | 2.8 | 3.7 | 4.5 | 5.9  | 13.5 | 18.0 | 4.5  | 2.3 | 1.7 | 2.8 | 4.8 | 6.2  | 11.8 | 0.3  | 100.  |      |
| 23         | 8.2            | 4.5 | 2.3 | 2.3 | 2.8 | 4.2 | 9.3  | 11.0 | 16.3 | 3.9  | 5.6 | 2.0 | 3.1 | 3.9 | 8.2  | 12.4 | 0.0  | 100.  |      |
| 24         | 6.5            | 4.0 | 1.4 | 2.5 | 3.1 | 4.0 | 7.1  | 16.7 | 15.5 | 5.1  | 3.4 | 2.0 | 4.2 | 4.0 | 7.9  | 12.7 | 0.0  | 100.  |      |
| ALL        | 8.4            | 3.9 | 2.6 | 2.5 | 3.4 | 4.8 | 8.5  | 12.3 | 14.0 | 6.5  | 3.0 | 2.8 | 3.5 | 4.2 | 8.2  | 11.4 | 0.2  | 100.  |      |

NUMBER OF OBS = 8504

## **Wind Direction Frequencies**

### **100-Meter Level**

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JANUARY

WIND DIRECTION

| HR. OF DAY | N   | NNE | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW | W   | WNNW | NW   | NNW  | CALM | TOTAL |
|------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|------|------|------|------|-------|
| 1          | 3.2 | 6.5 | 3.2 | 0.0 | 6.5 | 3.2  | 9.7  | 6.5  | 9.7  | 9.7  | 6.5  | 3.2 | 6.5 | 3.2  | 12.9 | 9.7  | 0.0  | 100.  |
| 2          | 3.2 | 6.5 | 6.5 | 0.0 | 3.2 | 9.7  | 3.2  | 6.5  | 6.5  | 16.1 | 6.5  | 0.0 | 9.7 | 0.0  | 16.1 | 6.5  | 0.0  | 100.  |
| 3          | 9.7 | 0.0 | 6.5 | 6.5 | 6.5 | 9.7  | 0.0  | 9.7  | 6.5  | 6.5  | 9.7  | 0.0 | 6.5 | 6.5  | 9.7  | 6.5  | 0.0  | 100.  |
| 4          | 6.5 | 0.0 | 3.2 | 6.5 | 0.0 | 12.9 | 0.0  | 16.1 | 6.5  | 6.5  | 6.5  | 0.0 | 9.7 | 3.2  | 16.1 | 6.5  | 0.0  | 100.  |
| 5          | 9.7 | 0.0 | 3.2 | 6.5 | 0.0 | 12.9 | 0.0  | 9.7  | 12.9 | 6.5  | 3.2  | 3.2 | 3.2 | 6.5  | 16.1 | 6.5  | 0.0  | 100.  |
| 6          | 6.5 | 6.5 | 3.2 | 6.5 | 0.0 | 12.9 | 0.0  | 9.7  | 12.9 | 6.5  | 0.0  | 6.5 | 6.5 | 9.7  | 6.5  | 6.5  | 0.0  | 100.  |
| 7          | 6.5 | 0.0 | 3.2 | 6.5 | 6.5 | 9.7  | 0.0  | 9.7  | 12.9 | 3.2  | 6.5  | 6.5 | 0.0 | 3.2  | 16.1 | 9.7  | 0.0  | 100.  |
| 8          | 6.5 | 0.0 | 3.2 | 3.2 | 6.5 | 9.7  | 6.5  | 9.7  | 9.7  | 3.2  | 9.7  | 3.2 | 0.0 | 9.7  | 12.9 | 6.5  | 0.0  | 100.  |
| 9          | 3.2 | 6.5 | 3.2 | 0.0 | 3.2 | 12.9 | 6.5  | 6.5  | 12.9 | 3.2  | 9.7  | 0.0 | 3.2 | 3.2  | 16.1 | 9.7  | 0.0  | 100.  |
| 10         | 9.7 | 6.5 | 0.0 | 0.0 | 6.5 | 9.7  | 6.5  | 0.0  | 16.1 | 3.2  | 9.7  | 6.5 | 3.2 | 3.2  | 12.9 | 6.5  | 0.0  | 100.  |
| 11         | 3.2 | 3.2 | 0.0 | 0.0 | 6.5 | 9.7  | 6.5  | 3.2  | 12.9 | 9.7  | 3.2  | 6.5 | 3.2 | 3.2  | 16.1 | 12.9 | 0.0  | 100.  |
| 12         | 9.7 | 3.2 | 3.2 | 0.0 | 0.0 | 9.7  | 6.5  | 9.7  | 12.9 | 3.2  | 6.5  | 6.5 | 3.2 | 6.5  | 6.5  | 12.9 | 0.0  | 100.  |
| 13         | 9.7 | 3.2 | 3.2 | 0.0 | 0.0 | 6.5  | 6.5  | 3.2  | 12.9 | 9.7  | 3.2  | 6.5 | 6.5 | 12.9 | 3.2  | 12.9 | 0.0  | 100.  |
| 14         | 3.2 | 0.0 | 6.5 | 0.0 | 3.2 | 0.0  | 12.9 | 3.2  | 3.2  | 16.1 | 6.5  | 3.2 | 3.2 | 9.7  | 9.7  | 19.4 | 0.0  | 100.  |
| 15         | 3.2 | 0.0 | 3.2 | 0.0 | 3.2 | 0.0  | 12.9 | 3.2  | 0.0  | 19.4 | 6.5  | 6.5 | 0.0 | 6.5  | 22.6 | 12.9 | 0.0  | 100.  |
| 16         | 6.5 | 6.5 | 0.0 | 3.2 | 3.2 | 3.2  | 9.7  | 3.2  | 0.0  | 19.4 | 6.5  | 3.2 | 6.5 | 3.2  | 16.1 | 9.7  | 0.0  | 100.  |
| 17         | 0.0 | 6.5 | 3.2 | 0.0 | 6.5 | 3.2  | 3.2  | 6.5  | 0.0  | 16.1 | 6.5  | 9.7 | 3.2 | 3.2  | 12.9 | 19.4 | 0.0  | 100.  |
| 18         | 0.0 | 0.0 | 6.5 | 3.2 | 6.5 | 0.0  | 6.5  | 6.5  | 0.0  | 9.7  | 12.9 | 6.5 | 9.7 | 0.0  | 6.5  | 25.8 | 0.0  | 100.  |
| 19         | 0.0 | 3.2 | 3.2 | 0.0 | 9.7 | 6.5  | 3.2  | 6.5  | 3.2  | 9.7  | 6.5  | 9.7 | 6.5 | 3.2  | 3.2  | 25.8 | 0.0  | 100.  |
| 20         | 9.7 | 0.0 | 3.2 | 3.2 | 6.5 | 3.2  | 6.5  | 6.5  | 6.5  | 9.7  | 9.7  | 3.2 | 9.7 | 0.0  | 6.5  | 16.1 | 0.0  | 100.  |
| 21         | 3.2 | 3.2 | 3.2 | 0.0 | 6.5 | 6.5  | 6.5  | 6.5  | 12.9 | 6.5  | 3.2  | 3.2 | 3.2 | 9.7  | 9.7  | 16.1 | 0.0  | 100.  |
| 22         | 6.5 | 6.5 | 0.0 | 0.0 | 3.2 | 9.7  | 6.5  | 3.2  | 12.9 | 9.7  | 0.0  | 3.2 | 3.2 | 16.1 | 9.7  | 9.7  | 0.0  | 100.  |
| 23         | 0.0 | 9.7 | 0.0 | 0.0 | 3.2 | 9.7  | 9.7  | 3.2  | 9.7  | 12.9 | 3.2  | 0.0 | 9.7 | 0.0  | 12.9 | 16.1 | 0.0  | 100.  |
| 24         | 3.2 | 6.5 | 3.2 | 0.0 | 3.2 | 6.5  | 6.5  | 6.5  | 12.9 | 6.5  | 3.2  | 3.2 | 3.2 | 3.2  | 16.1 | 12.9 | 0.0  | 100.  |
| ALL        | 5.1 | 3.5 | 3.1 | 1.9 | 4.2 | 7.4  | 5.6  | 6.5  | 8.6  | 9.3  | 6.2  | 4.2 | 5.0 | 5.2  | 12.0 | 12.4 | 0.0  | 100.  |

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

FEBRUARY

| HR. OF DAY | WIND DIRECTION |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      | CALM | TOTAL |      |
|------------|----------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
|            | N              | NNE | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW  | W    | WNW  | NW   | MNW  |      |       |      |
| 1          | 3.4            | 3.4 | 3.4 | 0.0 | 3.4 | 6.9  | 3.4  | 6.9  | 17.2 | 3.4  | 10.3 | 3.4  | 10.3 | 3.4  | 10.3 | 10.3 | 0.0  | 100.  |      |
| 2          | 6.9            | 6.9 | 0.0 | 0.0 | 0.0 | 6.9  | 3.4  | 10.3 | 13.8 | 10.3 | 3.4  | 3.4  | 0.0  | 3.4  | 17.2 | 0.0  | 17.2 | 0.0   | 100. |
| 3          | 6.9            | 3.4 | 0.0 | 0.0 | 0.0 | 6.9  | 6.9  | 13.8 | 13.8 | 3.4  | 10.3 | 0.0  | 10.3 | 6.9  | 10.3 | 13.8 | 0.0  | 100.  |      |
| 4          | 6.9            | 3.4 | 0.0 | 0.0 | 0.0 | 6.9  | 10.3 | 13.8 | 6.9  | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 10.3 | 13.8 | 0.0  | 100.  |      |
| 5          | 10.3           | 0.0 | 0.0 | 0.0 | 0.0 | 3.4  | 6.9  | 17.2 | 6.9  | 3.4  | 10.3 | 6.9  | 6.9  | 6.9  | 10.3 | 13.8 | 0.0  | 100.  |      |
| 6          | 10.3           | 0.0 | 0.0 | 0.0 | 0.0 | 3.4  | 10.3 | 13.8 | 10.3 | 6.9  | 6.9  | 3.4  | 3.4  | 6.9  | 0.0  | 6.9  | 0.0  | 100.  |      |
| 7          | 6.9            | 0.0 | 0.0 | 0.0 | 0.0 | 3.4  | 10.3 | 13.8 | 13.8 | 0.0  | 10.3 | 6.9  | 6.9  | 3.4  | 10.3 | 17.2 | 0.0  | 100.  |      |
| 8          | 10.3           | 0.0 | 0.0 | 0.0 | 0.0 | 3.4  | 20.7 | 13.8 | 3.4  | 13.8 | 3.4  | 3.4  | 3.4  | 3.4  | 0.0  | 13.8 | 0.0  | 100.  |      |
| 9          | 10.7           | 0.0 | 0.0 | 0.0 | 3.6 | 0.0  | 14.3 | 17.9 | 14.3 | 7.1  | 3.6  | 7.1  | 3.6  | 3.6  | 10.7 | 10.7 | 0.0  | 100.  |      |
| 10         | 7.1            | 3.6 | 0.0 | 0.0 | 0.0 | 3.6  | 0.0  | 14.3 | 10.7 | 21.4 | 7.1  | 3.6  | 3.6  | 3.6  | 3.6  | 17.9 | 0.0  | 100.  |      |
| 11         | 10.7           | 3.6 | 0.0 | 0.0 | 0.0 | 3.6  | 7.1  | 10.7 | 17.9 | 14.3 | 14.3 | 3.6  | 3.6  | 0.0  | 3.6  | 14.3 | 0.0  | 100.  |      |
| 12         | 3.6            | 7.1 | 0.0 | 0.0 | 0.0 | 7.1  | 3.6  | 7.1  | 10.7 | 21.4 | 10.7 | 3.6  | 3.6  | 3.6  | 3.6  | 17.9 | 0.0  | 100.  |      |
| 13         | 0.0            | 3.6 | 0.0 | 0.0 | 0.0 | 3.6  | 7.1  | 3.6  | 14.3 | 25.0 | 7.1  | 7.1  | 0.0  | 0.0  | 3.6  | 7.1  | 17.9 | 0.0   | 100. |
| 14         | 7.1            | 3.6 | 0.0 | 0.0 | 0.0 | 7.1  | 3.6  | 3.6  | 14.3 | 25.0 | 0.0  | 10.7 | 0.0  | 3.6  | 7.1  | 14.3 | 0.0  | 100.  |      |
| 15         | 3.7            | 0.0 | 3.7 | 0.0 | 0.0 | 7.4  | 3.7  | 0.0  | 29.6 | 11.1 | 3.7  | 3.7  | 7.4  | 3.7  | 7.4  | 14.8 | 0.0  | 100.  |      |
| 16         | 0.0            | 0.0 | 3.7 | 0.0 | 3.7 | 3.7  | 3.7  | 0.0  | 22.2 | 18.5 | 0.0  | 0.0  | 11.1 | 3.7  | 7.4  | 22.2 | 0.0  | 100.  |      |
| 17         | 0.0            | 0.0 | 3.6 | 3.6 | 0.0 | 0.0  | 7.1  | 0.0  | 21.4 | 14.3 | 3.6  | 3.6  | 7.1  | 10.7 | 3.6  | 21.4 | 0.0  | 100.  |      |
| 18         | 3.4            | 3.4 | 3.4 | 0.0 | 3.4 | 3.4  | 6.9  | 10.3 | 10.3 | 6.9  | 6.9  | 3.4  | 0.0  | 6.9  | 10.3 | 20.7 | 0.0  | 100.  |      |
| 19         | 3.4            | 3.4 | 0.0 | 3.4 | 6.9 | 6.9  | 3.4  | 13.8 | 3.4  | 13.8 | 3.4  | 0.0  | 6.9  | 3.4  | 3.4  | 24.1 | 0.0  | 100.  |      |
| 20         | 3.4            | 0.0 | 3.4 | 3.4 | 6.9 | 6.9  | 3.4  | 10.3 | 3.4  | 13.8 | 6.9  | 0.0  | 6.9  | 3.4  | 6.9  | 20.7 | 0.0  | 100.  |      |
| 21         | 6.9            | 0.0 | 3.4 | 3.4 | 3.4 | 10.3 | 13.8 | 6.9  | 6.9  | 13.8 | 3.4  | 0.0  | 3.4  | 3.4  | 10.3 | 17.2 | 0.0  | 100.  |      |
| 22         | 0.0            | 3.4 | 0.0 | 6.9 | 0.0 | 13.8 | 0.0  | 6.9  | 24.1 | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 6.9  | 17.2 | 0.0  | 100.  |      |
| 23         | 3.4            | 0.0 | 6.9 | 3.4 | 3.4 | 3.4  | 6.9  | 20.7 | 3.4  | 3.4  | 3.4  | 6.9  | 6.9  | 6.9  | 10.3 | 6.9  | 0.0  | 100.  |      |
| 24         | 6.9            | 0.0 | 6.9 | 3.4 | 0.0 | 6.9  | 3.4  | 17.2 | 6.9  | 6.9  | 3.4  | 3.4  | 6.9  | 10.3 | 6.9  | 6.9  | 0.0  | 100.  |      |
| ALL        | 5.5            | 2.0 | 1.6 | 1.2 | 1.5 | 5.1  | 5.0  | 9.2  | 14.3 | 10.9 | 6.6  | 3.5  | 4.7  | 5.1  | 7.6  | 16.2 | 0.0  | 100.  |      |

NUMBER OF OBS = 685



NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

MARCH

| HR. OF DAY | WIND DIRECTION |      |      |      |      |      |      |      |      |      |      |     |     |     |      |      | CALM | TOTAL |
|------------|----------------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|-------|
|            | N              | NNE  | NE   | ENE  | E    | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW | W   | WNW | NW   | NNW  |      |       |
| 1          | 16.1           | 0.0  | 9.7  | 3.2  | 6.5  | 6.5  | 9.7  | 12.9 | 6.5  | 3.2  | 9.7  | 0.0 | 0.0 | 3.2 | 12.9 | 0.0  | 0.0  | 100.  |
| 2          | 16.1           | 3.2  | 9.7  | 3.2  | 3.2  | 3.2  | 9.7  | 9.7  | 6.5  | 12.9 | 3.2  | 3.2 | 0.0 | 3.2 | 12.9 | 0.0  | 0.0  | 100.  |
| 3          | 16.1           | 6.5  | 3.2  | 3.2  | 3.2  | 9.7  | 6.5  | 6.5  | 12.9 | 12.9 | 0.0  | 3.2 | 0.0 | 3.2 | 9.7  | 3.2  | 0.0  | 100.  |
| 4          | 16.1           | 3.2  | 9.7  | 3.2  | 3.2  | 12.9 | 6.5  | 9.7  | 12.9 | 0.0  | 3.2  | 0.0 | 0.0 | 0.0 | 12.9 | 3.2  | 0.0  | 100.  |
| 5          | 19.4           | 3.2  | 6.5  | 3.2  | 9.7  | 6.5  | 3.2  | 9.7  | 12.9 | 6.5  | 3.2  | 3.2 | 0.0 | 3.2 | 9.7  | 0.0  | 0.0  | 100.  |
| 6          | 9.7            | 3.2  | 9.7  | 6.5  | 6.5  | 9.7  | 0.0  | 6.5  | 16.1 | 6.5  | 0.0  | 3.2 | 0.0 | 3.2 | 9.7  | 9.7  | 0.0  | 100.  |
| 7          | 12.9           | 9.7  | 0.0  | 3.2  | 16.1 | 0.0  | 6.5  | 6.5  | 16.1 | 3.2  | 3.2  | 3.2 | 0.0 | 6.5 | 6.5  | 6.5  | 0.0  | 100.  |
| 8          | 9.7            | 3.2  | 3.2  | 0.0  | 12.9 | 12.9 | 9.7  | 9.7  | 9.7  | 9.7  | 0.0  | 6.5 | 3.2 | 0.0 | 12.9 | 9.7  | 0.0  | 100.  |
| 9          | 16.1           | 3.2  | 6.5  | 0.0  | 9.7  | 9.7  | 3.2  | 3.2  | 12.9 | 6.5  | 6.5  | 3.2 | 3.2 | 0.0 | 6.5  | 9.7  | 0.0  | 100.  |
| 10         | 16.1           | 3.2  | 6.5  | 0.0  | 6.5  | 12.9 | 3.2  | 3.2  | 12.9 | 9.7  | 9.7  | 0.0 | 3.2 | 0.0 | 0.0  | 12.9 | 0.0  | 100.  |
| 11         | 12.9           | 3.2  | 6.5  | 0.0  | 6.5  | 9.7  | 9.7  | 0.0  | 9.7  | 16.1 | 0.0  | 3.2 | 0.0 | 3.2 | 3.2  | 16.1 | 0.0  | 100.  |
| 12         | 19.4           | 3.2  | 0.0  | 0.0  | 3.2  | 12.9 | 6.5  | 6.5  | 19.4 | 9.7  | 0.0  | 3.2 | 0.0 | 3.2 | 3.2  | 9.7  | 0.0  | 100.  |
| 13         | 29.0           | 0.0  | 3.2  | 3.2  | 6.5  | 6.5  | 6.5  | 3.2  | 12.9 | 12.9 | 3.2  | 3.2 | 3.2 | 3.2 | 3.2  | 0.0  | 0.0  | 100.  |
| 14         | 16.1           | 6.5  | 0.0  | 6.5  | 6.5  | 3.2  | 9.7  | 3.2  | 9.7  | 9.7  | 0.0  | 6.5 | 6.5 | 3.2 | 3.2  | 0.0  | 0.0  | 100.  |
| 15         | 22.6           | 0.0  | 0.0  | 3.2  | 9.7  | 6.5  | 6.5  | 3.2  | 9.7  | 3.2  | 6.5  | 6.5 | 0.0 | 6.5 | 6.5  | 9.7  | 0.0  | 100.  |
| 16         | 19.4           | 6.5  | 0.0  | 9.7  | 12.9 | 0.0  | 6.5  | 6.5  | 3.2  | 6.5  | 3.2  | 0.0 | 0.0 | 3.2 | 6.5  | 6.5  | 0.0  | 100.  |
| 17         | 12.9           | 12.9 | 3.2  | 9.7  | 6.5  | 0.0  | 6.5  | 6.5  | 6.5  | 3.2  | 12.9 | 0.0 | 3.2 | 3.2 | 3.2  | 9.7  | 0.0  | 100.  |
| 18         | 19.4           | 6.5  | 6.5  | 12.9 | 3.2  | 3.2  | 3.2  | 6.5  | 6.5  | 6.5  | 3.2  | 3.2 | 3.2 | 3.2 | 3.2  | 12.9 | 0.0  | 100.  |
| 19         | 19.4           | 9.7  | 3.2  | 6.5  | 6.5  | 6.5  | 6.5  | 9.7  | 3.2  | 3.2  | 3.2  | 6.5 | 0.0 | 3.2 | 3.2  | 9.7  | 0.0  | 100.  |
| 20         | 12.9           | 16.1 | 3.2  | 6.5  | 9.7  | 3.2  | 3.2  | 12.9 | 6.5  | 0.0  | 3.2  | 0.0 | 6.5 | 0.0 | 3.2  | 3.2  | 0.0  | 100.  |
| 21         | 9.7            | 12.9 | 0.0  | 6.5  | 9.7  | 9.7  | 0.0  | 16.1 | 12.9 | 3.2  | 0.0  | 0.0 | 6.5 | 0.0 | 12.9 | 3.2  | 0.0  | 100.  |
| 22         | 16.1           | 3.2  | 12.9 | 3.2  | 0.0  | 16.1 | 12.9 | 6.5  | 9.7  | 6.5  | 0.0  | 0.0 | 0.0 | 3.2 | 9.7  | 6.5  | 0.0  | 100.  |
| 23         | 12.9           | 3.2  | 12.9 | 3.2  | 6.5  | 6.5  | 19.4 | 6.5  | 6.5  | 6.5  | 3.2  | 0.0 | 0.0 | 3.2 | 9.7  | 0.0  | 0.0  | 100.  |
| 24         | 19.4           | 0.0  | 9.7  | 3.2  | 3.2  | 6.5  | 16.1 | 12.9 | 3.2  | 3.2  | 6.5  | 0.0 | 0.0 | 3.2 | 6.5  | 6.5  | 0.0  | 100.  |
| ALL        | 16.3           | 5.1  | 4.7  | 4.7  | 7.0  | 7.3  | 6.6  | 7.0  | 9.9  | 7.3  | 3.5  | 2.7 | 1.6 | 2.7 | 7.4  | 6.3  | 0.0  | 100.  |

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-MAR

WIND DIRECTION

| HR. OF DAY | N    | NNE | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  | CALM | TOTAL |
|------------|------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|------|------|------|-------|
| 1          | 7.7  | 3.3 | 5.5 | 1.1 | 5.5 | 7.7  | 8.8  | 11.0 | 5.5  | 8.8  | 2.2 | 2.2 | 5.5 | 3.3 | 12.1 | 6.6  | 0.0  | 100.  |
| 2          | 8.8  | 5.5 | 3.3 | 3.3 | 2.2 | 6.6  | 5.5  | 8.8  | 13.2 | 4.4  | 1.1 | 1.1 | 4.4 | 6.6 | 9.9  | 7.7  | 0.0  | 100.  |
| 3          | 11.0 | 3.3 | 3.3 | 3.3 | 3.3 | 8.8  | 4.4  | 7.7  | 11.0 | 7.7  | 6.6 | 1.1 | 5.5 | 5.5 | 9.9  | 7.7  | 0.0  | 100.  |
| 4          | 9.9  | 2.2 | 2.2 | 5.5 | 1.1 | 11.0 | 3.3  | 11.0 | 9.9  | 8.8  | 3.3 | 2.2 | 4.4 | 4.4 | 14.3 | 6.6  | 0.0  | 100.  |
| 5          | 13.2 | 1.1 | 3.3 | 3.3 | 3.3 | 7.7  | 3.3  | 12.1 | 11.0 | 5.5  | 5.5 | 4.4 | 2.2 | 5.5 | 12.1 | 6.6  | 0.0  | 100.  |
| 6          | 8.8  | 3.3 | 4.4 | 4.4 | 2.2 | 8.8  | 3.3  | 9.9  | 13.2 | 6.6  | 2.2 | 4.4 | 4.4 | 4.4 | 7.7  | 12.1 | 0.0  | 100.  |
| 7          | 8.8  | 3.3 | 1.1 | 3.3 | 7.7 | 4.4  | 5.5  | 9.9  | 14.3 | 2.2  | 6.6 | 5.5 | 1.1 | 4.4 | 11.0 | 11.0 | 0.0  | 100.  |
| 8          | 8.8  | 1.1 | 2.2 | 1.1 | 6.6 | 8.8  | 3.3  | 12.1 | 11.0 | 5.5  | 7.7 | 4.4 | 2.2 | 3.3 | 13.2 | 8.8  | 0.0  | 100.  |
| 9          | 10.0 | 3.3 | 3.3 | 0.0 | 5.6 | 7.8  | 3.3  | 7.8  | 14.4 | 7.8  | 7.8 | 2.2 | 3.3 | 2.2 | 11.1 | 10.0 | 0.0  | 100.  |
| 10         | 11.1 | 4.4 | 2.2 | 0.0 | 4.4 | 8.9  | 3.3  | 5.6  | 13.3 | 11.1 | 8.9 | 3.3 | 3.3 | 2.2 | 5.6  | 12.2 | 0.0  | 100.  |
| 11         | 8.9  | 3.3 | 2.2 | 0.0 | 4.4 | 7.8  | 7.8  | 3.3  | 11.1 | 14.4 | 5.6 | 4.4 | 2.2 | 2.2 | 7.8  | 14.4 | 0.0  | 100.  |
| 12         | 11.1 | 4.4 | 1.1 | 0.0 | 1.1 | 10.0 | 5.6  | 7.8  | 14.4 | 11.1 | 5.6 | 4.4 | 1.1 | 4.4 | 4.4  | 13.3 | 0.0  | 100.  |
| 13         | 13.3 | 2.2 | 2.2 | 1.1 | 2.2 | 5.6  | 6.7  | 3.3  | 14.4 | 14.4 | 4.4 | 5.6 | 3.3 | 3.3 | 3.3  | 11.1 | 0.0  | 100.  |
| 14         | 8.9  | 3.3 | 2.2 | 2.2 | 3.3 | 3.3  | 8.9  | 3.3  | 8.9  | 16.7 | 2.2 | 6.7 | 3.3 | 5.6 | 6.7  | 14.4 | 0.0  | 100.  |
| 15         | 10.1 | 0.0 | 2.2 | 1.1 | 4.5 | 4.5  | 7.9  | 2.2  | 12.4 | 11.2 | 5.6 | 5.6 | 2.2 | 5.6 | 12.4 | 12.4 | 0.0  | 100.  |
| 16         | 9.0  | 4.5 | 1.1 | 4.5 | 6.7 | 2.2  | 6.7  | 2.2  | 9.0  | 13.5 | 6.7 | 1.1 | 6.7 | 3.4 | 10.1 | 12.4 | 0.0  | 100.  |
| 17         | 4.4  | 6.7 | 3.3 | 4.4 | 4.4 | 1.1  | 5.6  | 4.4  | 8.9  | 12.2 | 5.6 | 5.6 | 3.3 | 5.6 | 7.8  | 16.7 | 0.0  | 100.  |
| 18         | 7.7  | 3.3 | 5.5 | 2.2 | 3.3 | 7.7  | 6.6  | 4.4  | 9.9  | 3.3  | 8.8 | 4.4 | 4.4 | 3.3 | 6.6  | 18.7 | 0.0  | 100.  |
| 19         | 7.7  | 5.5 | 2.2 | 3.3 | 7.7 | 6.6  | 4.4  | 9.9  | 3.3  | 8.8  | 4.4 | 5.5 | 4.4 | 2.2 | 3.3  | 20.9 | 0.0  | 100.  |
| 20         | 8.8  | 5.5 | 3.3 | 4.4 | 7.7 | 4.4  | 4.4  | 9.9  | 5.5  | 7.7  | 6.6 | 1.1 | 7.7 | 1.1 | 8.8  | 13.2 | 0.0  | 100.  |
| 21         | 6.6  | 5.5 | 2.2 | 3.3 | 6.6 | 6.6  | 5.5  | 12.1 | 11.0 | 7.7  | 2.2 | 1.1 | 3.3 | 4.4 | 8.8  | 13.2 | 0.0  | 100.  |
| 22         | 7.7  | 4.4 | 4.4 | 3.3 | 1.1 | 13.2 | 6.6  | 5.5  | 15.4 | 6.6  | 1.1 | 2.2 | 2.2 | 7.7 | 9.9  | 8.8  | 0.0  | 100.  |
| 23         | 5.5  | 4.4 | 6.6 | 2.2 | 4.4 | 6.6  | 11.0 | 5.5  | 12.1 | 7.7  | 3.3 | 2.2 | 4.4 | 3.3 | 9.9  | 11.0 | 0.0  | 100.  |
| 24         | 9.9  | 2.2 | 6.6 | 2.2 | 2.2 | 6.6  | 8.8  | 8.8  | 11.0 | 5.5  | 6.6 | 2.2 | 4.4 | 6.6 | 9.9  | 6.6  | 0.0  | 100.  |
| ALL        | 9.1  | 3.6 | 3.2 | 2.6 | 4.3 | 6.6  | 5.8  | 7.5  | 10.9 | 9.1  | 5.4 | 3.5 | 3.7 | 4.3 | 9.0  | 11.5 | 0.0  | 100.  |

NUMBER OF OBS = 2173

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

APRIL

WIND DIRECTION

| HR. OF DAY | N    | NNE  | NE  | ENE | E    | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW  | W    | WNW  | NW   | NNW  | CALM | TOTAL |      |
|------------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 1          | 6.7  | 3.3  | 0.0 | 3.3 | 3.3  | 6.7  | 13.3 | 10.0 | 6.7  | 3.3  | 10.0 | 0.0  | 3.3  | 10.0 | 16.7 | 3.3  | 0.0  | 100.  |      |
| 2          | 6.9  | 0.0  | 3.4 | 0.0 | 6.9  | 10.3 | 13.8 | 3.4  | 6.9  | 6.9  | 3.4  | 0.0  | 0.0  | 6.9  | 20.7 | 10.3 | 0.0  | 100.  |      |
| 3          | 3.3  | 3.3  | 3.3 | 3.3 | 6.7  | 6.7  | 6.7  | 10.0 | 10.0 | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 20.0 | 10.0 | 0.0  | 100.  |      |
| 4          | 13.3 | 0.0  | 3.3 | 3.3 | 10.0 | 6.7  | 6.7  | 10.0 | 13.3 | 0.0  | 3.3  | 3.3  | 6.7  | 0.0  | 16.7 | 3.3  | 0.0  | 100.  |      |
| 5          | 6.7  | 3.3  | 0.0 | 3.3 | 6.7  | 3.3  | 6.7  | 6.7  | 20.0 | 3.3  | 3.3  | 3.3  | 6.7  | 0.0  | 20.0 | 6.7  | 0.0  | 100.  |      |
| 6          | 6.7  | 3.3  | 0.0 | 3.3 | 6.7  | 3.3  | 6.7  | 6.7  | 20.0 | 3.3  | 0.0  | 3.3  | 0.0  | 10.0 | 16.7 | 10.0 | 0.0  | 100.  |      |
| 7          | 6.7  | 0.0  | 3.3 | 3.3 | 6.7  | 3.3  | 3.3  | 16.7 | 23.3 | 3.3  | 0.0  | 3.3  | 0.0  | 10.0 | 16.7 | 10.0 | 0.0  | 100.  |      |
| 8          | 3.3  | 3.3  | 0.0 | 3.3 | 6.7  | 3.3  | 3.3  | 6.7  | 13.3 | 3.3  | 0.0  | 10.0 | 0.0  | 6.7  | 16.7 | 10.0 | 0.0  | 100.  |      |
| 9          | 6.7  | 0.0  | 3.3 | 3.3 | 6.7  | 3.3  | 13.3 | 10.0 | 6.7  | 3.3  | 3.3  | 3.3  | 10.0 | 6.7  | 3.3  | 16.7 | 10.0 | 0.0   | 100. |
| 10         | 3.3  | 0.0  | 0.0 | 3.3 | 6.7  | 3.3  | 13.3 | 10.0 | 6.7  | 3.3  | 3.3  | 3.3  | 10.0 | 6.7  | 6.7  | 20.0 | 0.0  | 100.  |      |
| 11         | 10.0 | 0.0  | 3.3 | 0.0 | 3.3  | 10.0 | 6.7  | 10.0 | 10.0 | 3.3  | 0.0  | 3.3  | 10.0 | 6.7  | 10.0 | 13.3 | 0.0  | 100.  |      |
| 12         | 10.0 | 0.0  | 6.7 | 0.0 | 6.7  | 10.0 | 10.0 | 6.7  | 10.0 | 3.3  | 0.0  | 3.3  | 10.0 | 6.7  | 10.0 | 10.0 | 0.0  | 100.  |      |
| 13         | 6.7  | 0.0  | 0.0 | 3.3 | 10.0 | 3.3  | 10.0 | 10.0 | 10.0 | 3.3  | 0.0  | 6.7  | 13.3 | 3.3  | 10.0 | 10.0 | 0.0  | 100.  |      |
| 14         | 6.7  | 0.0  | 3.3 | 3.3 | 3.3  | 6.7  | 6.7  | 10.0 | 10.0 | 3.3  | 6.7  | 6.7  | 6.7  | 10.0 | 6.7  | 10.0 | 0.0  | 100.  |      |
| 15         | 6.7  | 0.0  | 3.3 | 3.3 | 0.0  | 3.3  | 13.3 | 6.7  | 10.0 | 6.7  | 10.0 | 6.7  | 6.7  | 3.3  | 6.7  | 13.3 | 0.0  | 100.  |      |
| 16         | 3.3  | 3.3  | 6.7 | 0.0 | 3.3  | 6.7  | 6.7  | 10.0 | 13.3 | 10.0 | 3.3  | 6.7  | 6.7  | 6.7  | 3.3  | 16.7 | 0.0  | 100.  |      |
| 17         | 3.3  | 3.3  | 3.3 | 0.0 | 0.0  | 10.0 | 10.0 | 13.3 | 16.7 | 0.0  | 6.7  | 10.0 | 0.0  | 3.3  | 0.0  | 20.0 | 0.0  | 100.  |      |
| 18         | 3.3  | 0.0  | 3.3 | 3.3 | 3.3  | 6.7  | 20.0 | 3.3  | 16.7 | 3.3  | 6.7  | 3.3  | 0.0  | 0.0  | 6.7  | 20.0 | 0.0  | 100.  |      |
| 19         | 6.7  | 0.0  | 3.3 | 3.3 | 6.7  | 3.3  | 13.3 | 6.7  | 23.3 | 3.3  | 3.3  | 3.3  | 0.0  | 0.0  | 3.3  | 20.0 | 0.0  | 100.  |      |
| 20         | 6.7  | 0.0  | 0.0 | 3.3 | 13.3 | 3.3  | 6.7  | 13.3 | 20.0 | 6.7  | 3.3  | 0.0  | 0.0  | 0.0  | 10.0 | 13.3 | 0.0  | 100.  |      |
| 21         | 3.3  | 0.0  | 6.7 | 0.0 | 3.3  | 3.3  | 6.7  | 10.0 | 16.7 | 10.0 | 6.7  | 0.0  | 0.0  | 0.0  | 13.3 | 10.0 | 0.0  | 100.  |      |
| 22         | 0.0  | 3.3  | 0.0 | 3.3 | 6.7  | 10.0 | 6.7  | 10.0 | 13.3 | 13.3 | 3.3  | 0.0  | 0.0  | 3.3  | 16.7 | 10.0 | 0.0  | 100.  |      |
| 23         | 0.0  | 10.0 | 0.0 | 0.0 | 3.3  | 10.0 | 3.3  | 10.0 | 20.0 | 6.7  | 3.3  | 3.3  | 3.3  | 0.0  | 13.3 | 13.3 | 0.0  | 100.  |      |
| 24         | 6.7  | 3.3  | 0.0 | 0.0 | 3.3  | 6.7  | 10.0 | 6.7  | 16.7 | 6.7  | 3.3  | 3.3  | 3.3  | 3.3  | 6.7  | 20.0 | 0.0  | 100.  |      |
| ALL        | 5.7  | 1.7  | 2.4 | 2.2 | 6.0  | 5.8  | 8.9  | 8.9  | 14.2 | 4.6  | 3.6  | 4.0  | 3.9  | 4.0  | 11.8 | 12.2 | 0.0  | 100.  |      |

NUMBER OF OBS = 719

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

MAY

WIND DIRECTION

| HR. OF DAY | N    | NNE  | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW | W   | WNW  | NW   | NNW  | CALM | TOTAL |
|------------|------|------|-----|-----|-----|------|------|------|------|------|------|-----|-----|------|------|------|------|-------|
| 1          | 6.5  | 3.2  | 0.0 | 0.0 | 0.0 | 6.5  | 3.2  | 19.4 | 19.4 | 3.2  | 6.5  | 3.2 | 0.0 | 6.5  | 9.7  | 12.9 | 0.0  | 100.  |
| 2          | 9.7  | 9.7  | 0.0 | 0.0 | 3.2 | 3.2  | 6.5  | 9.7  | 25.8 | 3.2  | 9.7  | 0.0 | 0.0 | 6.5  | 9.7  | 3.2  | 0.0  | 100.  |
| 3          | 6.5  | 3.2  | 3.2 | 0.0 | 3.2 | 6.5  | 6.5  | 9.7  | 16.1 | 6.5  | 9.7  | 0.0 | 0.0 | 6.5  | 12.9 | 9.7  | 0.0  | 100.  |
| 4          | 9.7  | 12.9 | 0.0 | 0.0 | 0.0 | 6.5  | 6.5  | 16.1 | 12.9 | 3.2  | 9.7  | 3.2 | 0.0 | 0.0  | 9.7  | 9.7  | 0.0  | 100.  |
| 5          | 16.1 | 6.5  | 3.2 | 0.0 | 0.0 | 3.2  | 12.9 | 9.7  | 16.1 | 3.2  | 9.7  | 3.2 | 0.0 | 0.0  | 9.7  | 6.5  | 0.0  | 100.  |
| 6          | 9.7  | 6.5  | 6.5 | 0.0 | 3.2 | 0.0  | 12.9 | 9.7  | 19.4 | 0.0  | 12.9 | 0.0 | 0.0 | 6.5  | 3.2  | 9.7  | 0.0  | 100.  |
| 7          | 12.9 | 3.2  | 6.5 | 0.0 | 3.2 | 0.0  | 16.1 | 12.9 | 6.5  | 12.9 | 6.5  | 0.0 | 3.2 | 6.5  | 3.2  | 6.5  | 0.0  | 100.  |
| 8          | 6.5  | 6.5  | 0.0 | 3.2 | 3.2 | 0.0  | 19.4 | 6.5  | 3.2  | 19.4 | 6.5  | 3.2 | 0.0 | 3.2  | 6.5  | 12.9 | 0.0  | 100.  |
| 9          | 3.2  | 3.2  | 0.0 | 3.2 | 6.5 | 3.2  | 6.5  | 12.9 | 16.1 | 9.7  | 3.2  | 3.2 | 3.2 | 6.5  | 3.2  | 16.1 | 0.0  | 100.  |
| 10         | 6.5  | 6.5  | 0.0 | 0.0 | 3.2 | 6.5  | 6.5  | 16.1 | 12.9 | 12.9 | 3.2  | 3.2 | 0.0 | 6.5  | 9.7  | 6.5  | 0.0  | 100.  |
| 11         | 6.5  | 3.2  | 0.0 | 3.2 | 0.0 | 9.7  | 6.5  | 12.9 | 16.1 | 9.7  | 3.2  | 0.0 | 6.5 | 3.2  | 9.7  | 9.7  | 0.0  | 100.  |
| 12         | 6.5  | 3.2  | 0.0 | 3.2 | 0.0 | 0.0  | 12.9 | 16.1 | 19.4 | 6.5  | 3.2  | 0.0 | 3.2 | 9.7  | 6.5  | 9.7  | 0.0  | 100.  |
| 13         | 6.5  | 6.5  | 0.0 | 0.0 | 0.0 | 3.2  | 3.2  | 19.4 | 19.4 | 3.2  | 6.5  | 0.0 | 0.0 | 12.9 | 9.7  | 9.7  | 0.0  | 100.  |
| 14         | 6.5  | 9.7  | 0.0 | 0.0 | 0.0 | 3.2  | 3.2  | 16.1 | 22.6 | 6.5  | 3.2  | 0.0 | 3.2 | 3.2  | 12.9 | 9.7  | 0.0  | 100.  |
| 15         | 3.2  | 3.2  | 6.5 | 3.2 | 0.0 | 3.2  | 6.5  | 12.9 | 22.6 | 6.5  | 3.2  | 3.2 | 0.0 | 3.2  | 12.9 | 9.7  | 0.0  | 100.  |
| 16         | 0.0  | 0.0  | 3.2 | 3.2 | 3.2 | 3.2  | 6.5  | 12.9 | 22.6 | 6.5  | 0.0  | 3.2 | 3.2 | 6.5  | 6.5  | 19.4 | 0.0  | 100.  |
| 17         | 0.0  | 6.5  | 0.0 | 0.0 | 3.2 | 6.5  | 3.2  | 16.1 | 22.6 | 9.7  | 0.0  | 3.2 | 3.2 | 3.2  | 6.5  | 16.1 | 0.0  | 100.  |
| 18         | 3.2  | 0.0  | 0.0 | 0.0 | 3.2 | 3.2  | 9.7  | 16.1 | 22.6 | 6.5  | 3.2  | 0.0 | 3.2 | 3.2  | 12.9 | 12.9 | 0.0  | 100.  |
| 19         | 6.5  | 3.2  | 3.2 | 0.0 | 3.2 | 0.0  | 6.5  | 9.7  | 38.7 | 3.2  | 0.0  | 0.0 | 3.2 | 6.5  | 9.7  | 6.5  | 0.0  | 100.  |
| 20         | 6.5  | 0.0  | 0.0 | 0.0 | 6.5 | 3.2  | 6.5  | 12.9 | 32.3 | 3.2  | 0.0  | 3.2 | 0.0 | 3.2  | 12.9 | 9.7  | 0.0  | 100.  |
| 21         | 12.9 | 0.0  | 0.0 | 0.0 | 3.2 | 3.2  | 12.9 | 12.9 | 25.8 | 9.7  | 0.0  | 3.2 | 0.0 | 3.2  | 9.7  | 3.2  | 0.0  | 100.  |
| 22         | 6.5  | 9.7  | 0.0 | 0.0 | 0.0 | 6.5  | 3.2  | 25.8 | 19.4 | 9.7  | 0.0  | 0.0 | 3.2 | 3.2  | 3.2  | 9.7  | 0.0  | 100.  |
| 23         | 12.9 | 3.2  | 0.0 | 0.0 | 6.5 | 3.2  | 6.5  | 19.4 | 19.4 | 12.9 | 0.0  | 0.0 | 3.2 | 3.2  | 3.2  | 6.5  | 0.0  | 100.  |
| 24         | 10.0 | 3.3  | 0.0 | 0.0 | 0.0 | 10.0 | 3.3  | 16.7 | 20.0 | 10.0 | 6.7  | 0.0 | 0.0 | 6.7  | 3.3  | 10.0 | 0.0  | 100.  |
| ALL        | 7.3  | 4.7  | 1.3 | 0.8 | 2.3 | 3.9  | 7.8  | 14.3 | 19.7 | 7.4  | 4.4  | 1.5 | 1.6 | 5.0  | 8.2  | 9.8  | 0.0  | 100.  |

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUNE

WIND DIRECTION

| HR. OF DAY | N    | NNE | NE  | ENE | E    | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW  | W    | WNW  | NW   | NMW  | CALM | TOTAL |
|------------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1          | 0.0  | 0.0 | 0.0 | 0.0 | 3.3  | 3.3  | 16.7 | 13.3 | 20.0 | 10.0 | 0.0  | 6.7  | 3.3  | 10.0 | 10.0 | 3.3  | 0.0  | 100.  |
| 2          | 3.3  | 0.0 | 3.3 | 3.3 | 0.0  | 3.3  | 16.7 | 6.7  | 16.7 | 13.3 | 3.3  | 6.7  | 6.7  | 3.3  | 3.3  | 10.0 | 0.0  | 100.  |
| 3          | 6.7  | 0.0 | 3.3 | 0.0 | 3.3  | 6.7  | 10.0 | 0.0  | 23.3 | 13.3 | 3.3  | 10.0 | 6.7  | 3.3  | 6.7  | 3.3  | 0.0  | 100.  |
| 4          | 3.3  | 0.0 | 0.0 | 0.0 | 6.7  | 3.3  | 13.3 | 3.3  | 20.0 | 16.7 | 3.3  | 6.7  | 6.7  | 10.0 | 3.3  | 3.3  | 0.0  | 100.  |
| 5          | 0.0  | 0.0 | 0.0 | 3.3 | 3.3  | 6.7  | 3.3  | 6.7  | 23.3 | 13.3 | 3.3  | 10.0 | 10.0 | 3.3  | 3.3  | 10.0 | 0.0  | 100.  |
| 6          | 3.3  | 0.0 | 0.0 | 0.0 | 0.0  | 13.3 | 3.3  | 16.7 | 10.0 | 23.3 | 0.0  | 10.0 | 0.0  | 3.3  | 6.7  | 10.0 | 0.0  | 100.  |
| 7          | 6.7  | 3.3 | 0.0 | 3.3 | 0.0  | 6.7  | 3.3  | 13.3 | 16.7 | 20.0 | 3.3  | 0.0  | 6.7  | 3.3  | 6.7  | 6.7  | 0.0  | 100.  |
| 8          | 3.3  | 3.3 | 3.3 | 0.0 | 0.0  | 3.3  | 3.3  | 3.3  | 26.7 | 16.7 | 3.3  | 6.7  | 3.3  | 13.3 | 0.0  | 10.0 | 0.0  | 100.  |
| 9          | 6.7  | 3.3 | 0.0 | 0.0 | 3.3  | 6.7  | 0.0  | 0.0  | 23.3 | 16.7 | 6.7  | 0.0  | 10.0 | 6.7  | 6.7  | 6.7  | 0.0  | 100.  |
| 10         | 6.7  | 0.0 | 3.3 | 6.7 | 0.0  | 3.3  | 0.0  | 13.3 | 23.3 | 10.0 | 6.7  | 3.3  | 10.0 | 3.3  | 6.7  | 3.3  | 0.0  | 100.  |
| 11         | 6.7  | 3.3 | 3.3 | 0.0 | 0.0  | 6.7  | 3.3  | 16.7 | 16.7 | 6.7  | 0.0  | 10.0 | 10.0 | 3.3  | 3.3  | 10.0 | 0.0  | 100.  |
| 12         | 6.7  | 0.0 | 0.0 | 0.0 | 3.3  | 6.7  | 0.0  | 20.0 | 16.7 | 10.0 | 6.7  | 3.3  | 3.3  | 6.7  | 6.7  | 6.7  | 0.0  | 100.  |
| 13         | 10.0 | 0.0 | 0.0 | 0.0 | 6.7  | 6.7  | 3.3  | 13.3 | 20.0 | 10.0 | 6.7  | 0.0  | 3.3  | 6.7  | 0.0  | 13.3 | 0.0  | 100.  |
| 14         | 6.7  | 3.3 | 0.0 | 0.0 | 3.3  | 6.7  | 6.7  | 16.7 | 13.3 | 16.7 | 0.0  | 3.3  | 3.3  | 6.7  | 0.0  | 13.3 | 0.0  | 100.  |
| 15         | 3.3  | 6.7 | 0.0 | 3.3 | 3.3  | 0.0  | 10.0 | 13.3 | 20.0 | 13.3 | 0.0  | 3.3  | 0.0  | 6.7  | 0.0  | 16.7 | 0.0  | 100.  |
| 16         | 10.0 | 3.3 | 0.0 | 0.0 | 0.0  | 3.3  | 6.7  | 13.3 | 20.0 | 16.7 | 0.0  | 0.0  | 3.3  | 3.3  | 6.7  | 13.3 | 0.0  | 100.  |
| 17         | 6.7  | 0.0 | 6.7 | 3.3 | 0.0  | 3.3  | 6.7  | 13.3 | 20.0 | 10.0 | 0.0  | 6.7  | 0.0  | 0.0  | 10.0 | 13.3 | 0.0  | 100.  |
| 18         | 16.7 | 6.7 | 3.3 | 0.0 | 0.0  | 3.3  | 0.0  | 16.7 | 23.3 | 6.7  | 0.0  | 6.7  | 0.0  | 0.0  | 10.0 | 6.7  | 0.0  | 100.  |
| 19         | 6.7  | 0.0 | 6.7 | 6.7 | 6.7  | 3.3  | 3.3  | 3.3  | 26.7 | 10.0 | 6.7  | 0.0  | 0.0  | 0.0  | 10.0 | 10.0 | 0.0  | 100.  |
| 20         | 6.7  | 3.3 | 0.0 | 0.0 | 10.0 | 0.0  | 6.7  | 13.3 | 26.7 | 3.3  | 6.7  | 0.0  | 3.3  | 3.3  | 10.0 | 6.7  | 0.0  | 100.  |
| 21         | 3.3  | 3.3 | 0.0 | 3.3 | 10.0 | 3.3  | 6.7  | 16.7 | 20.0 | 0.0  | 10.0 | 0.0  | 0.0  | 6.7  | 6.7  | 10.0 | 0.0  | 100.  |
| 22         | 0.0  | 6.7 | 3.3 | 3.3 | 0.0  | 6.7  | 6.7  | 20.0 | 20.0 | 6.7  | 0.0  | 6.7  | 0.0  | 10.0 | 0.0  | 10.0 | 0.0  | 100.  |
| 23         | 0.0  | 0.0 | 0.0 | 6.7 | 0.0  | 6.7  | 13.3 | 16.7 | 16.7 | 6.7  | 3.3  | 10.0 | 6.7  | 3.3  | 0.0  | 10.0 | 0.0  | 100.  |
| 24         | 0.0  | 3.3 | 0.0 | 3.3 | 3.3  | 6.7  | 23.3 | 13.3 | 10.0 | 3.3  | 10.0 | 3.3  | 10.0 | 6.7  | 3.3  | 6.7  | 0.0  | 100.  |
| ALL        | 5.1  | 2.1 | 1.5 | 2.1 | 2.8  | 4.7  | 6.5  | 12.2 | 19.9 | 11.7 | 3.2  | 5.0  | 4.2  | 5.1  | 5.0  | 8.9  | 0.0  | 100.  |

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

APR-JUN

WIND DIRECTION

| HR. OF DAY | N   | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  | CALM | TOTAL |
|------------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|------|------|------|-------|
| 1          | 4.4 | 2.2 | 0.0 | 1.1 | 2.2 | 5.5 | 11.0 | 14.3 | 15.4 | 5.5  | 5.5 | 3.3 | 2.2 | 8.8 | 12.1 | 6.6  | 0.0  | 100.  |
| 2          | 6.7 | 3.3 | 2.2 | 1.1 | 3.3 | 5.6 | 12.2 | 6.7  | 16.7 | 7.8  | 5.6 | 2.2 | 2.2 | 5.6 | 11.1 | 7.8  | 0.0  | 100.  |
| 3          | 5.5 | 2.2 | 3.3 | 1.1 | 4.4 | 6.6 | 7.7  | 6.6  | 16.5 | 7.7  | 5.5 | 4.4 | 3.3 | 4.4 | 13.2 | 7.7  | 0.0  | 100.  |
| 4          | 8.8 | 4.4 | 1.1 | 1.1 | 5.5 | 5.5 | 8.8  | 9.9  | 15.4 | 6.6  | 5.5 | 4.4 | 4.4 | 3.3 | 9.9  | 5.5  | 0.0  | 100.  |
| 5          | 7.7 | 3.3 | 1.1 | 2.2 | 3.3 | 4.4 | 7.7  | 7.7  | 19.8 | 6.6  | 5.5 | 5.5 | 5.5 | 1.1 | 11.0 | 7.7  | 0.0  | 100.  |
| 6          | 6.6 | 3.3 | 2.2 | 1.1 | 3.3 | 5.5 | 7.7  | 11.0 | 16.5 | 8.8  | 4.4 | 4.4 | 0.0 | 6.6 | 8.8  | 9.9  | 0.0  | 100.  |
| 7          | 8.8 | 2.2 | 3.3 | 2.2 | 3.3 | 3.3 | 7.7  | 11.0 | 15.4 | 12.1 | 3.3 | 1.1 | 3.3 | 6.6 | 8.8  | 7.7  | 0.0  | 100.  |
| 8          | 4.4 | 4.4 | 1.1 | 2.2 | 3.3 | 2.2 | 8.8  | 8.8  | 14.3 | 13.2 | 3.3 | 6.6 | 1.1 | 7.7 | 7.7  | 11.0 | 0.0  | 100.  |
| 9          | 5.5 | 2.2 | 1.1 | 2.2 | 5.5 | 2.2 | 7.7  | 6.6  | 17.6 | 8.8  | 4.4 | 4.4 | 6.6 | 5.5 | 8.8  | 11.0 | 0.0  | 100.  |
| 10         | 5.5 | 2.2 | 1.1 | 3.3 | 3.3 | 4.4 | 6.6  | 13.2 | 14.3 | 8.8  | 4.4 | 3.3 | 6.6 | 5.5 | 7.7  | 9.9  | 0.0  | 100.  |
| 11         | 7.7 | 2.2 | 2.2 | 1.1 | 1.1 | 8.8 | 5.5  | 13.2 | 14.3 | 6.6  | 1.1 | 4.4 | 8.8 | 4.4 | 7.7  | 11.0 | 0.0  | 100.  |
| 12         | 7.7 | 1.1 | 2.2 | 2.2 | 3.3 | 5.5 | 7.7  | 14.3 | 15.4 | 6.6  | 3.3 | 2.2 | 6.6 | 5.5 | 7.7  | 8.8  | 0.0  | 100.  |
| 13         | 7.7 | 2.2 | 0.0 | 1.1 | 5.5 | 4.4 | 5.5  | 14.3 | 16.5 | 5.5  | 4.4 | 2.2 | 5.5 | 7.7 | 6.6  | 11.0 | 0.0  | 100.  |
| 14         | 6.6 | 4.4 | 1.1 | 1.1 | 2.2 | 5.5 | 5.5  | 14.3 | 15.4 | 8.8  | 3.3 | 3.3 | 4.4 | 6.6 | 6.6  | 13.2 | 0.0  | 100.  |
| 15         | 4.4 | 3.3 | 3.3 | 3.3 | 1.1 | 2.2 | 9.9  | 11.0 | 17.6 | 8.8  | 4.4 | 4.4 | 2.2 | 4.4 | 6.6  | 13.2 | 0.0  | 100.  |
| 16         | 4.4 | 2.2 | 3.3 | 1.1 | 2.2 | 4.4 | 6.6  | 12.1 | 18.7 | 11.0 | 1.1 | 3.3 | 2.2 | 5.5 | 5.5  | 16.5 | 0.0  | 100.  |
| 17         | 3.3 | 3.3 | 3.3 | 1.1 | 1.1 | 6.6 | 6.6  | 14.3 | 19.8 | 6.6  | 2.2 | 6.6 | 1.1 | 2.2 | 5.5  | 16.5 | 0.0  | 100.  |
| 18         | 7.7 | 2.2 | 2.2 | 1.1 | 2.2 | 4.4 | 9.9  | 12.1 | 20.9 | 5.5  | 3.3 | 3.3 | 1.1 | 1.1 | 9.9  | 13.2 | 0.0  | 100.  |
| 19         | 6.6 | 1.1 | 4.4 | 3.3 | 5.5 | 2.2 | 7.7  | 6.6  | 29.7 | 5.5  | 3.3 | 1.1 | 1.1 | 2.2 | 7.7  | 12.1 | 0.0  | 100.  |
| 20         | 6.6 | 1.1 | 0.0 | 1.1 | 9.9 | 2.2 | 6.6  | 13.2 | 26.4 | 4.4  | 3.3 | 1.1 | 1.1 | 2.2 | 11.0 | 9.9  | 0.0  | 100.  |
| 21         | 6.6 | 1.1 | 2.2 | 1.1 | 8.8 | 3.3 | 8.8  | 13.2 | 20.9 | 6.6  | 5.5 | 1.1 | 0.0 | 3.3 | 9.9  | 7.7  | 0.0  | 100.  |
| 22         | 2.2 | 6.6 | 1.1 | 2.2 | 2.2 | 7.7 | 5.5  | 18.7 | 17.6 | 9.9  | 1.1 | 2.2 | 1.1 | 5.5 | 6.6  | 9.9  | 0.0  | 100.  |
| 23         | 4.4 | 4.4 | 0.0 | 2.2 | 3.3 | 6.6 | 7.7  | 15.4 | 18.7 | 8.8  | 2.2 | 4.4 | 4.4 | 2.2 | 5.5  | 9.9  | 0.0  | 100.  |
| 24         | 5.6 | 3.3 | 0.0 | 1.1 | 2.2 | 6.7 | 6.7  | 15.6 | 16.7 | 8.9  | 4.4 | 4.4 | 2.2 | 5.6 | 4.4  | 12.2 | 0.0  | 100.  |
| ALL        | 6.0 | 2.8 | 1.7 | 1.7 | 3.7 | 4.8 | 7.7  | 11.8 | 17.9 | 7.9  | 3.8 | 3.5 | 3.2 | 4.7 | 8.3  | 10.3 | 0.0  | 100.  |

NUMBER OF OBS = 2182

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-JUN 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-JUN

WIND DIRECTION

| HR. OF DAY | N    | NNE | NE  | ENE | E   | ESE  | SE  | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  | CALM | TOTAL |
|------------|------|-----|-----|-----|-----|------|-----|------|------|------|-----|-----|-----|-----|------|------|------|-------|
| 1          | 6.0  | 2.7 | 2.7 | 1.1 | 3.8 | 5.5  | 9.3 | 11.5 | 13.2 | 5.5  | 7.1 | 2.7 | 3.8 | 6.0 | 12.1 | 6.6  | 0.0  | 100.  |
| 2          | 7.7  | 4.4 | 2.8 | 2.2 | 2.8 | 6.1  | 8.8 | 7.7  | 12.7 | 10.5 | 5.0 | 1.7 | 3.3 | 6.1 | 10.5 | 7.7  | 0.0  | 100.  |
| 3          | 8.2  | 2.7 | 3.3 | 2.2 | 3.8 | 7.7  | 6.0 | 7.1  | 13.7 | 7.7  | 6.0 | 2.7 | 4.4 | 4.9 | 11.5 | 7.7  | 0.0  | 100.  |
| 4          | 9.3  | 3.3 | 1.6 | 3.3 | 3.3 | 8.2  | 6.0 | 10.4 | 12.6 | 7.7  | 4.4 | 3.3 | 4.4 | 3.8 | 12.1 | 6.0  | 0.0  | 100.  |
| 5          | 10.4 | 2.2 | 2.2 | 2.7 | 3.3 | 6.0  | 5.5 | 9.9  | 15.4 | 6.0  | 5.5 | 4.9 | 3.8 | 3.3 | 11.5 | 7.1  | 0.0  | 100.  |
| 6          | 7.7  | 3.3 | 3.3 | 2.7 | 2.7 | 7.1  | 5.5 | 10.4 | 14.8 | 7.7  | 3.3 | 4.4 | 2.2 | 5.5 | 8.2  | 11.0 | 0.0  | 100.  |
| 7          | 8.8  | 2.7 | 2.2 | 2.7 | 5.5 | 3.8  | 6.6 | 10.4 | 14.8 | 7.1  | 4.9 | 3.3 | 2.2 | 5.5 | 9.9  | 9.3  | 0.0  | 100.  |
| 8          | 6.6  | 2.7 | 1.6 | 1.6 | 4.9 | 5.5  | 6.0 | 10.4 | 12.6 | 9.3  | 5.5 | 5.5 | 1.6 | 5.5 | 10.4 | 9.9  | 0.0  | 100.  |
| 9          | 7.7  | 2.8 | 2.2 | 1.1 | 5.5 | 5.0  | 5.5 | 7.2  | 16.0 | 8.3  | 6.1 | 3.3 | 5.0 | 3.9 | 9.9  | 10.5 | 0.0  | 100.  |
| 10         | 8.3  | 3.3 | 1.7 | 1.7 | 3.9 | 6.6  | 5.0 | 9.4  | 13.8 | 9.9  | 6.6 | 3.3 | 5.0 | 3.9 | 6.6  | 11.0 | 0.0  | 100.  |
| 11         | 8.3  | 2.8 | 2.2 | 0.6 | 2.8 | 8.3  | 6.6 | 8.3  | 12.7 | 10.5 | 3.3 | 4.4 | 5.5 | 3.3 | 7.7  | 12.7 | 0.0  | 100.  |
| 12         | 9.4  | 2.8 | 1.7 | 1.1 | 2.2 | 7.7  | 6.6 | 11.0 | 14.9 | 8.8  | 4.4 | 3.3 | 3.9 | 5.0 | 6.1  | 11.0 | 0.0  | 100.  |
| 13         | 10.5 | 2.2 | 1.1 | 1.1 | 3.9 | 5.0  | 6.1 | 8.8  | 15.5 | 9.9  | 4.4 | 3.9 | 4.4 | 7.2 | 5.0  | 11.0 | 0.0  | 100.  |
| 14         | 7.7  | 3.9 | 1.7 | 1.7 | 2.8 | 4.4  | 7.2 | 8.8  | 12.2 | 12.7 | 2.8 | 5.0 | 3.9 | 6.1 | 6.6  | 12.7 | 0.0  | 100.  |
| 15         | 7.2  | 1.7 | 2.8 | 2.2 | 2.8 | 3.3  | 8.9 | 6.7  | 15.0 | 10.0 | 5.0 | 5.0 | 2.2 | 5.0 | 9.4  | 12.8 | 0.0  | 100.  |
| 16         | 6.7  | 3.3 | 2.2 | 2.8 | 4.4 | 3.3  | 6.7 | 7.2  | 13.9 | 12.2 | 3.9 | 2.2 | 4.4 | 4.4 | 7.8  | 14.4 | 0.0  | 100.  |
| 17         | 3.9  | 5.0 | 3.3 | 2.8 | 2.8 | 3.9  | 6.1 | 9.4  | 14.4 | 9.4  | 3.9 | 2.2 | 2.2 | 3.9 | 6.6  | 16.6 | 0.0  | 100.  |
| 18         | 7.7  | 2.7 | 3.8 | 3.3 | 3.3 | 3.3  | 7.7 | 9.9  | 13.2 | 6.6  | 5.5 | 3.8 | 2.7 | 2.2 | 8.2  | 15.9 | 0.0  | 100.  |
| 19         | 7.1  | 3.3 | 3.3 | 3.3 | 6.6 | 4.4  | 6.0 | 8.2  | 16.5 | 7.1  | 3.8 | 3.3 | 2.7 | 2.2 | 5.5  | 16.5 | 0.0  | 100.  |
| 20         | 7.7  | 3.3 | 1.6 | 2.7 | 8.8 | 3.3  | 5.5 | 11.5 | 15.9 | 6.0  | 4.9 | 1.1 | 4.4 | 1.6 | 9.9  | 11.5 | 0.0  | 100.  |
| 21         | 6.6  | 3.3 | 2.2 | 2.2 | 7.7 | 4.9  | 7.1 | 12.6 | 15.9 | 7.1  | 3.8 | 1.1 | 1.6 | 3.8 | 9.3  | 10.4 | 0.0  | 100.  |
| 22         | 4.9  | 5.5 | 2.7 | 2.7 | 1.6 | 10.4 | 6.0 | 12.1 | 16.5 | 8.2  | 1.1 | 2.2 | 1.6 | 6.6 | 8.2  | 9.3  | 0.0  | 100.  |
| 23         | 4.9  | 4.4 | 3.3 | 2.2 | 3.8 | 6.6  | 9.3 | 10.4 | 15.4 | 8.2  | 2.7 | 3.3 | 4.4 | 2.7 | 7.7  | 10.4 | 0.0  | 100.  |
| 24         | 7.7  | 2.8 | 3.3 | 1.7 | 2.2 | 6.6  | 7.7 | 12.2 | 13.8 | 7.2  | 5.5 | 3.3 | 3.3 | 6.1 | 7.2  | 9.4  | 0.0  | 100.  |
| ALL        | 7.6  | 3.2 | 2.5 | 2.2 | 4.0 | 5.7  | 6.8 | 9.7  | 14.4 | 8.5  | 4.6 | 3.5 | 3.5 | 4.5 | 8.7  | 10.9 | 0.0  | 100.  |

NUMBER OF OBS = 4355

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JULY

| HR. OF DAY | WIND DIRECTION |      |      |     |     |      |      |      |      |      |     |     |     |     |     |      | TOTAL |      |
|------------|----------------|------|------|-----|-----|------|------|------|------|------|-----|-----|-----|-----|-----|------|-------|------|
|            | N              | NNE  | NE   | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW  | NNW  |       | CALM |
| 1          | 9.7            | 6.5  | 3.2  | 6.5 | 6.5 | 3.2  | 9.7  | 6.5  | 29.0 | 6.5  | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 | 3.2  | 0.0   | 100. |
| 2          | 9.7            | 6.5  | 9.7  | 3.2 | 0.0 | 6.5  | 12.9 | 0.0  | 25.8 | 16.1 | 0.0 | 3.2 | 0.0 | 3.2 | 0.0 | 3.2  | 0.0   | 100. |
| 3          | 16.1           | 9.7  | 3.2  | 3.2 | 6.5 | 9.7  | 6.5  | 6.5  | 16.1 | 12.9 | 3.2 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0  | 0.0   | 100. |
| 4          | 19.4           | 3.2  | 9.7  | 3.2 | 6.5 | 6.5  | 6.5  | 3.2  | 19.4 | 12.9 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 6.5  | 0.0   | 100. |
| 5          | 12.9           | 6.5  | 3.2  | 3.2 | 0.0 | 19.4 | 9.7  | 3.2  | 19.4 | 12.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0   | 100. |
| 6          | 6.5            | 6.5  | 6.5  | 0.0 | 0.0 | 12.9 | 6.5  | 16.1 | 12.9 | 9.7  | 3.2 | 3.2 | 0.0 | 0.0 | 3.2 | 12.9 | 0.0   | 100. |
| 7          | 6.5            | 9.7  | 6.5  | 0.0 | 6.5 | 9.7  | 6.5  | 6.5  | 22.6 | 6.5  | 0.0 | 3.2 | 3.2 | 0.0 | 0.0 | 9.7  | 0.0   | 100. |
| 8          | 6.5            | 9.7  | 3.2  | 0.0 | 6.5 | 9.7  | 6.5  | 16.1 | 9.7  | 12.9 | 3.2 | 0.0 | 3.2 | 0.0 | 3.2 | 9.7  | 0.0   | 100. |
| 9          | 3.2            | 6.5  | 6.5  | 3.2 | 6.5 | 6.5  | 0.0  | 9.7  | 22.6 | 16.1 | 3.2 | 0.0 | 0.0 | 3.2 | 0.0 | 12.9 | 0.0   | 100. |
| 10         | 12.9           | 6.5  | 6.5  | 0.0 | 3.2 | 9.7  | 6.5  | 0.0  | 22.6 | 12.9 | 3.2 | 6.5 | 0.0 | 3.2 | 0.0 | 6.5  | 0.0   | 100. |
| 11         | 9.7            | 9.7  | 3.2  | 6.5 | 3.2 | 6.5  | 9.7  | 0.0  | 19.4 | 16.1 | 0.0 | 3.2 | 0.0 | 0.0 | 3.2 | 9.7  | 0.0   | 100. |
| 12         | 9.7            | 3.2  | 6.5  | 9.7 | 3.2 | 6.5  | 6.5  | 6.5  | 25.8 | 9.7  | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0   | 100. |
| 13         | 9.7            | 6.5  | 3.2  | 9.7 | 3.2 | 6.5  | 6.5  | 9.7  | 19.4 | 12.9 | 3.2 | 0.0 | 0.0 | 0.0 | 3.2 | 6.5  | 0.0   | 100. |
| 14         | 12.9           | 6.5  | 6.5  | 3.2 | 3.2 | 6.5  | 3.2  | 16.1 | 12.9 | 12.9 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0   | 100. |
| 15         | 16.1           | 6.5  | 3.2  | 3.2 | 3.2 | 6.5  | 12.9 | 6.5  | 16.1 | 9.7  | 0.0 | 6.5 | 0.0 | 0.0 | 3.2 | 6.5  | 0.0   | 100. |
| 16         | 16.1           | 9.7  | 6.5  | 3.2 | 3.2 | 6.5  | 3.2  | 22.6 | 12.9 | 6.5  | 3.2 | 0.0 | 3.2 | 0.0 | 0.0 | 3.2  | 0.0   | 100. |
| 17         | 12.9           | 9.7  | 9.7  | 3.2 | 9.7 | 0.0  | 12.9 | 19.4 | 9.7  | 3.2  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5  | 0.0   | 100. |
| 18         | 9.7            | 16.1 | 9.7  | 3.2 | 0.0 | 6.5  | 22.6 | 12.9 | 6.5  | 6.5  | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 3.2  | 0.0   | 100. |
| 19         | 3.2            | 12.9 | 16.1 | 3.2 | 3.2 | 9.7  | 22.6 | 12.9 | 0.0  | 3.2  | 3.2 | 0.0 | 3.2 | 0.0 | 0.0 | 6.5  | 0.0   | 100. |
| 20         | 9.7            | 9.7  | 12.9 | 3.2 | 6.5 | 9.7  | 19.4 | 16.1 | 3.2  | 3.2  | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 3.2  | 0.0   | 100. |
| 21         | 9.7            | 6.5  | 9.7  | 6.5 | 3.2 | 12.9 | 19.4 | 19.4 | 3.2  | 3.2  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2  | 0.0   | 100. |
| 22         | 12.9           | 3.2  | 12.9 | 3.2 | 3.2 | 12.9 | 12.9 | 19.4 | 9.7  | 3.2  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2  | 0.0   | 100. |
| 23         | 9.7            | 3.2  | 9.7  | 3.2 | 0.0 | 16.1 | 16.1 | 16.1 | 19.4 | 3.2  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 24         | 3.2            | 16.1 | 3.2  | 0.0 | 3.2 | 9.7  | 12.9 | 12.9 | 22.6 | 9.7  | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| ALL        | 10.3           | 7.9  | 7.1  | 3.5 | 3.8 | 8.7  | 10.5 | 10.8 | 15.9 | 9.3  | 2.4 | 1.5 | 0.5 | 1.1 | 0.7 | 5.9  | 0.1   | 100. |

NUMBER OF OBS = 744



NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

AUGUST

| HR. OF DAY | WIND DIRECTION |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     | CALM | TOTAL |      |
|------------|----------------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|-------|------|
|            | N              | NNE  | NE   | ENE  | E    | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW | W   | WNW | NW  | NNW |      |       |      |
| 1          | 3.2            | 3.2  | 0.0  | 6.5  | 16.1 | 19.4 | 16.1 | 9.7  | 6.5  | 12.9 | 0.0  | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 2          | 3.2            | 3.2  | 3.2  | 0.0  | 3.2  | 22.6 | 25.8 | 6.5  | 9.7  | 9.7  | 0.0  | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2  | 0.0   | 100. |
| 3          | 6.5            | 3.2  | 3.2  | 0.0  | 9.7  | 12.9 | 25.8 | 6.5  | 9.7  | 9.7  | 9.7  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 4          | 9.7            | 3.2  | 3.2  | 3.2  | 6.5  | 19.4 | 16.1 | 9.7  | 3.2  | 3.2  | 9.7  | 6.5 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 5          | 6.5            | 0.0  | 3.2  | 0.0  | 3.2  | 22.6 | 9.7  | 16.1 | 9.7  | 0.0  | 16.1 | 3.2 | 0.0 | 3.2 | 3.2 | 0.0 | 0.0  | 0.0   | 100. |
| 6          | 6.5            | 3.2  | 3.2  | 3.2  | 6.5  | 16.1 | 9.7  | 9.7  | 12.9 | 6.5  | 16.1 | 3.2 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 7          | 6.5            | 3.2  | 0.0  | 6.5  | 3.2  | 12.9 | 16.1 | 9.7  | 12.9 | 6.5  | 3.2  | 9.7 | 3.2 | 6.5 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 8          | 9.7            | 0.0  | 9.7  | 0.0  | 0.0  | 16.1 | 16.1 | 9.7  | 12.9 | 3.2  | 6.5  | 6.5 | 0.0 | 0.0 | 3.2 | 0.0 | 0.0  | 0.0   | 100. |
| 9          | 3.2            | 3.2  | 6.5  | 3.2  | 3.2  | 12.9 | 12.9 | 12.9 | 12.9 | 9.7  | 0.0  | 6.5 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 10         | 3.2            | 9.7  | 0.0  | 9.7  | 0.0  | 9.7  | 19.4 | 9.7  | 12.9 | 9.7  | 6.5  | 0.0 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 11         | 6.5            | 0.0  | 6.5  | 3.2  | 6.5  | 9.7  | 16.1 | 12.9 | 16.1 | 6.5  | 6.5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7  | 0.0   | 100. |
| 12         | 6.7            | 3.3  | 0.0  | 3.3  | 6.7  | 26.7 | 10.0 | 10.0 | 6.7  | 6.7  | 6.7  | 0.0 | 0.0 | 3.3 | 3.3 | 6.7 | 0.0  | 0.0   | 100. |
| 13         | 10.0           | 13.3 | 0.0  | 0.0  | 10.0 | 16.7 | 16.7 | 3.3  | 6.7  | 10.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 14         | 10.0           | 6.7  | 6.7  | 3.3  | 10.0 | 16.7 | 10.0 | 13.3 | 0.0  | 10.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 15         | 10.0           | 3.3  | 13.3 | 3.3  | 6.7  | 23.3 | 6.7  | 10.0 | 3.3  | 10.0 | 6.7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 16         | 3.2            | 6.5  | 9.7  | 6.5  | 6.5  | 22.6 | 9.7  | 9.7  | 6.5  | 12.9 | 3.2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 17         | 12.9           | 0.0  | 9.7  | 3.2  | 9.7  | 19.4 | 19.4 | 9.7  | 0.0  | 3.2  | 9.7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 18         | 3.2            | 3.2  | 3.2  | 16.1 | 6.5  | 19.4 | 9.7  | 6.5  | 9.7  | 9.7  | 3.2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 19         | 9.7            | 0.0  | 3.2  | 9.7  | 9.7  | 25.8 | 9.7  | 3.2  | 9.7  | 6.5  | 6.5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 20         | 0.0            | 9.7  | 3.2  | 9.7  | 12.9 | 22.6 | 6.5  | 9.7  | 6.5  | 6.5  | 6.5  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 21         | 3.2            | 3.2  | 6.5  | 9.7  | 16.1 | 19.4 | 6.5  | 9.7  | 9.7  | 6.5  | 3.2  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 22         | 3.2            | 0.0  | 6.5  | 16.1 | 16.1 | 16.1 | 6.5  | 9.7  | 9.7  | 3.2  | 3.2  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 23         | 6.5            | 0.0  | 3.2  | 12.9 | 9.7  | 29.0 | 6.5  | 9.7  | 6.5  | 3.2  | 6.5  | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| 24         | 3.2            | 6.5  | 0.0  | 9.7  | 16.1 | 12.9 | 12.9 | 12.9 | 6.5  | 6.5  | 0.0  | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0   | 100. |
| ALL        | 6.1            | 3.6  | 4.5  | 5.8  | 8.1  | 18.5 | 13.1 | 9.6  | 8.4  | 7.0  | 6.2  | 2.7 | 0.7 | 0.9 | 0.8 | 3.9 | 0.0  | 0.0   | 100. |

NUMBER OF OBS = 740

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

SEPTEMBER

| HR. OF DAY | WIND DIRECTION |     |     |     |      |      |      |      |      |     |      |     |     |      |      |      | CALM | TOTAL |
|------------|----------------|-----|-----|-----|------|------|------|------|------|-----|------|-----|-----|------|------|------|------|-------|
|            | N              | NNE | NE  | ENE | E    | ESE  | SE   | SSE  | S    | SSW | SW   | WSW | W   | WNW  | NW   | NNW  |      |       |
| 1          | 4.3            | 4.3 | 4.3 | 0.0 | 13.0 | 4.3  | 13.0 | 21.7 | 8.7  | 4.3 | 4.3  | 0.0 | 0.0 | 0.0  | 8.7  | 8.7  | 0.0  | 100.  |
| 2          | 8.7            | 4.3 | 0.0 | 0.0 | 13.0 | 8.7  | 13.0 | 21.7 | 8.7  | 4.3 | 4.3  | 0.0 | 0.0 | 0.0  | 8.7  | 4.3  | 0.0  | 100.  |
| 3          | 8.7            | 0.0 | 0.0 | 0.0 | 13.0 | 4.3  | 8.7  | 17.4 | 8.7  | 8.7 | 4.3  | 4.3 | 0.0 | 0.0  | 4.3  | 13.0 | 0.0  | 100.  |
| 4          | 13.0           | 0.0 | 0.0 | 0.0 | 4.3  | 13.0 | 4.3  | 13.0 | 13.0 | 8.7 | 4.3  | 4.3 | 4.3 | 4.3  | 4.3  | 8.7  | 0.0  | 100.  |
| 5          | 13.0           | 0.0 | 0.0 | 0.0 | 8.7  | 8.7  | 8.7  | 13.0 | 13.0 | 4.3 | 8.7  | 4.3 | 4.3 | 4.3  | 4.3  | 8.7  | 0.0  | 100.  |
| 6          | 8.7            | 4.3 | 0.0 | 0.0 | 8.7  | 4.3  | 13.0 | 17.4 | 0.0  | 4.3 | 13.0 | 0.0 | 0.0 | 4.3  | 4.3  | 4.3  | 0.0  | 100.  |
| 7          | 8.7            | 4.3 | 0.0 | 0.0 | 13.0 | 13.0 | 13.0 | 17.4 | 4.3  | 8.7 | 8.7  | 0.0 | 0.0 | 0.0  | 4.3  | 4.3  | 0.0  | 100.  |
| 8          | 8.7            | 0.0 | 0.0 | 4.3 | 4.3  | 8.7  | 8.7  | 30.4 | 4.3  | 8.7 | 8.7  | 0.0 | 0.0 | 0.0  | 4.3  | 4.3  | 0.0  | 100.  |
| 9          | 8.7            | 0.0 | 0.0 | 0.0 | 4.3  | 8.7  | 8.7  | 13.0 | 21.7 | 4.3 | 4.3  | 4.3 | 8.7 | 0.0  | 0.0  | 8.7  | 0.0  | 100.  |
| 10         | 4.3            | 0.0 | 4.3 | 4.3 | 0.0  | 8.7  | 8.7  | 13.0 | 13.0 | 4.3 | 8.7  | 0.0 | 0.0 | 4.3  | 8.7  | 8.7  | 0.0  | 100.  |
| 11         | 8.7            | 0.0 | 4.3 | 4.3 | 0.0  | 4.3  | 13.0 | 13.0 | 8.7  | 8.7 | 0.0  | 0.0 | 0.0 | 4.3  | 13.0 | 8.7  | 0.0  | 100.  |
| 12         | 13.0           | 4.3 | 0.0 | 0.0 | 4.3  | 4.3  | 17.4 | 13.0 | 8.7  | 0.0 | 8.7  | 0.0 | 0.0 | 0.0  | 4.3  | 13.0 | 0.0  | 100.  |
| 13         | 13.0           | 0.0 | 0.0 | 0.0 | 4.3  | 8.7  | 13.0 | 16.7 | 4.2  | 4.3 | 4.3  | 4.3 | 0.0 | 12.5 | 4.3  | 17.4 | 0.0  | 100.  |
| 14         | 12.5           | 4.2 | 0.0 | 0.0 | 4.2  | 4.2  | 12.5 | 16.7 | 4.2  | 4.2 | 4.2  | 0.0 | 0.0 | 4.3  | 0.0  | 12.5 | 0.0  | 100.  |
| 15         | 8.7            | 4.3 | 4.3 | 0.0 | 4.3  | 4.3  | 8.7  | 17.4 | 4.3  | 4.3 | 0.0  | 0.0 | 0.0 | 4.3  | 4.3  | 13.0 | 0.0  | 100.  |
| 16         | 8.7            | 4.3 | 0.0 | 4.3 | 4.3  | 8.7  | 13.0 | 17.4 | 4.3  | 4.3 | 0.0  | 0.0 | 0.0 | 4.3  | 17.4 | 0.0  | 100. |       |
| 17         | 4.3            | 0.0 | 0.0 | 4.3 | 8.7  | 4.3  | 13.0 | 26.1 | 4.3  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0  | 4.3  | 26.1 | 0.0  | 100.  |
| 18         | 17.4           | 4.3 | 0.0 | 4.3 | 8.7  | 4.3  | 13.0 | 26.1 | 4.3  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0  | 4.3  | 8.7  | 0.0  | 100.  |
| 19         | 8.7            | 4.3 | 0.0 | 0.0 | 8.7  | 8.7  | 13.0 | 17.4 | 4.3  | 4.3 | 0.0  | 0.0 | 0.0 | 0.0  | 4.3  | 17.4 | 0.0  | 100.  |
| 20         | 4.3            | 0.0 | 4.3 | 0.0 | 8.7  | 13.0 | 17.4 | 17.4 | 4.3  | 0.0 | 4.3  | 0.0 | 0.0 | 0.0  | 0.0  | 21.7 | 0.0  | 100.  |
| 21         | 13.0           | 0.0 | 0.0 | 4.3 | 8.7  | 13.0 | 21.7 | 17.4 | 0.0  | 4.3 | 0.0  | 0.0 | 0.0 | 0.0  | 4.3  | 8.7  | 0.0  | 100.  |
| 22         | 8.7            | 4.3 | 0.0 | 4.3 | 13.0 | 4.3  | 13.0 | 13.0 | 4.3  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 13.0 | 0.0  | 100.  |
| 23         | 4.3            | 0.0 | 4.3 | 4.3 | 13.0 | 4.3  | 13.0 | 30.4 | 0.0  | 4.3 | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 13.0 | 0.0  | 100.  |
| 24         | 4.3            | 0.0 | 4.3 | 8.7 | 8.7  | 4.3  | 8.7  | 13.0 | 13.0 | 4.3 | 0.0  | 0.0 | 0.0 | 0.0  | 8.7  | 8.7  | 0.0  | 100.  |
| ALL        | 9.0            | 2.0 | 1.3 | 2.2 | 6.9  | 7.6  | 9.4  | 11.0 | 18.1 | 6.7 | 4.0  | 3.6 | 0.7 | 1.6  | 4.5  | 11.4 | 0.0  | 100.  |

NUMBER OF OBS = 553

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-SEP 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUL-SEP

| HR. OF DAY | WIND DIRECTION |     |     |     |      |      |      |      |      |      |     |     |     |     |     |      | CALM | TOTAL |
|------------|----------------|-----|-----|-----|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|-------|
|            | N              | NNE | NE  | ENE | E    | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW  | NNW  |      |       |
| 1          | 5.9            | 4.7 | 2.4 | 4.7 | 11.8 | 9.4  | 10.6 | 9.4  | 18.8 | 9.4  | 3.5 | 2.4 | 1.2 | 0.0 | 2.4 | 3.5  | 0.0  | 100.  |
| 2          | 7.1            | 4.7 | 4.7 | 1.2 | 4.7  | 12.9 | 15.3 | 5.9  | 18.8 | 11.8 | 0.0 | 5.9 | 0.0 | 1.2 | 2.4 | 2.4  | 1.2  | 100.  |
| 3          | 10.6           | 4.7 | 2.4 | 1.2 | 8.2  | 11.8 | 12.9 | 7.1  | 14.1 | 10.6 | 7.1 | 2.4 | 0.0 | 2.4 | 1.2 | 3.5  | 0.0  | 100.  |
| 4          | 14.1           | 2.4 | 4.7 | 2.4 | 5.9  | 12.9 | 9.4  | 5.9  | 11.8 | 9.4  | 5.9 | 3.5 | 3.5 | 2.4 | 1.2 | 4.7  | 0.0  | 100.  |
| 5          | 10.6           | 2.4 | 3.5 | 1.2 | 3.5  | 17.6 | 9.4  | 9.4  | 12.9 | 8.2  | 7.1 | 3.5 | 1.2 | 1.2 | 2.4 | 5.9  | 0.0  | 100.  |
| 6          | 7.1            | 4.7 | 3.5 | 1.2 | 4.7  | 11.8 | 9.4  | 12.9 | 14.1 | 5.9  | 8.2 | 5.9 | 0.0 | 2.4 | 2.4 | 4.7  | 0.0  | 100.  |
| 7          | 7.1            | 5.9 | 2.4 | 2.4 | 3.5  | 11.8 | 11.8 | 9.4  | 17.6 | 5.9  | 3.5 | 7.1 | 2.4 | 3.5 | 1.2 | 4.7  | 0.0  | 100.  |
| 8          | 8.2            | 3.5 | 4.7 | 1.2 | 3.5  | 11.8 | 9.4  | 11.8 | 16.5 | 7.1  | 5.9 | 4.7 | 1.2 | 0.0 | 3.5 | 7.1  | 0.0  | 100.  |
| 9          | 4.7            | 3.5 | 4.7 | 2.4 | 4.7  | 9.4  | 7.1  | 10.6 | 16.5 | 15.3 | 2.4 | 3.5 | 2.4 | 2.4 | 0.0 | 10.6 | 0.0  | 100.  |
| 10         | 7.1            | 5.9 | 3.5 | 4.7 | 1.2  | 9.4  | 11.8 | 5.9  | 16.5 | 11.8 | 4.7 | 4.7 | 0.0 | 3.5 | 2.4 | 7.1  | 0.0  | 100.  |
| 11         | 8.2            | 3.5 | 4.7 | 4.7 | 3.5  | 7.1  | 11.8 | 8.2  | 16.5 | 10.6 | 4.7 | 1.2 | 0.0 | 1.2 | 4.7 | 9.4  | 0.0  | 100.  |
| 12         | 9.5            | 3.6 | 2.4 | 6.0 | 4.8  | 13.1 | 10.7 | 7.1  | 15.5 | 8.3  | 2.4 | 3.6 | 0.0 | 1.2 | 2.4 | 9.5  | 0.0  | 100.  |
| 13         | 10.7           | 7.1 | 1.2 | 3.6 | 6.0  | 10.7 | 11.9 | 7.1  | 13.1 | 8.3  | 6.0 | 1.2 | 0.0 | 1.2 | 3.6 | 8.3  | 0.0  | 100.  |
| 14         | 11.8           | 5.9 | 4.7 | 2.4 | 5.9  | 9.4  | 7.1  | 14.1 | 9.4  | 9.4  | 7.1 | 1.2 | 0.0 | 1.2 | 0.0 | 8.2  | 0.0  | 100.  |
| 15         | 11.9           | 4.8 | 7.1 | 2.4 | 4.8  | 11.9 | 9.5  | 9.5  | 14.3 | 7.1  | 3.6 | 2.4 | 0.0 | 1.2 | 2.4 | 7.1  | 0.0  | 100.  |
| 16         | 9.4            | 7.1 | 5.9 | 4.7 | 4.7  | 12.9 | 8.2  | 14.1 | 11.8 | 8.2  | 3.5 | 0.0 | 1.2 | 0.0 | 1.2 | 7.1  | 0.0  | 100.  |
| 17         | 10.6           | 3.5 | 7.1 | 3.5 | 9.4  | 8.2  | 15.3 | 11.8 | 10.6 | 3.5  | 4.7 | 0.0 | 0.0 | 0.0 | 1.2 | 10.6 | 0.0  | 100.  |
| 18         | 9.4            | 8.2 | 4.7 | 8.2 | 4.7  | 10.6 | 15.3 | 8.2  | 12.9 | 7.1  | 1.2 | 0.0 | 0.0 | 1.2 | 1.2 | 7.1  | 0.0  | 100.  |
| 19         | 7.1            | 5.9 | 7.1 | 4.7 | 7.1  | 15.3 | 15.3 | 11.8 | 5.9  | 4.7  | 3.5 | 0.0 | 1.2 | 0.0 | 2.4 | 8.2  | 0.0  | 100.  |
| 20         | 4.7            | 7.1 | 7.1 | 4.7 | 9.4  | 15.3 | 10.6 | 14.1 | 8.2  | 4.7  | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 9.4  | 0.0  | 100.  |
| 21         | 8.2            | 3.5 | 5.9 | 7.1 | 9.4  | 15.3 | 10.6 | 16.5 | 9.4  | 3.5  | 3.5 | 1.2 | 0.0 | 0.0 | 1.2 | 4.7  | 0.0  | 100.  |
| 22         | 8.2            | 2.4 | 7.1 | 8.2 | 10.6 | 11.8 | 10.6 | 14.1 | 12.9 | 3.5  | 2.4 | 0.0 | 1.2 | 0.0 | 1.2 | 5.9  | 0.0  | 100.  |
| 23         | 7.1            | 1.2 | 5.9 | 7.1 | 7.1  | 17.6 | 11.8 | 11.8 | 17.6 | 2.4  | 4.7 | 1.2 | 0.0 | 0.0 | 0.0 | 4.7  | 0.0  | 100.  |
| 24         | 3.5            | 8.2 | 2.4 | 5.9 | 9.4  | 11.8 | 12.9 | 14.1 | 9.4  | 3.5  | 2.4 | 2.4 | 0.0 | 0.0 | 2.4 | 4.7  | 0.0  | 100.  |
| ALL        | 8.4            | 4.8 | 4.6 | 4.0 | 6.2  | 12.0 | 11.1 | 10.4 | 13.7 | 7.8  | 4.2 | 2.5 | 0.6 | 1.2 | 1.8 | 6.7  | 0.0  | 100.  |

NUMBER OF OBS = 2037

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

OCTOBER

WIND DIRECTION

| HR. OF DAY | N    | NNE | NE   | ENE  | E   | ESE  | SE   | SSE  | S    | SSW  | SW   | WSW | W   | WNW | NW  | NNW  | CALM | TOTAL |
|------------|------|-----|------|------|-----|------|------|------|------|------|------|-----|-----|-----|-----|------|------|-------|
| 1          | 3.4  | 3.4 | 0.0  | 3.4  | 3.4 | 3.4  | 0.0  | 10.3 | 27.6 | 20.7 | 10.3 | 3.4 | 0.0 | 0.0 | 3.4 | 6.9  | 0.0  | 100.  |
| 2          | 3.6  | 0.0 | 3.6  | 0.0  | 3.6 | 3.6  | 3.6  | 7.1  | 17.9 | 32.1 | 7.1  | 3.6 | 3.6 | 0.0 | 0.0 | 10.7 | 0.0  | 100.  |
| 3          | 3.4  | 0.0 | 0.0  | 3.4  | 3.4 | 6.9  | 3.4  | 6.9  | 20.7 | 27.6 | 6.9  | 3.4 | 0.0 | 0.0 | 0.0 | 13.8 | 0.0  | 100.  |
| 4          | 6.9  | 3.4 | 0.0  | 0.0  | 3.4 | 6.9  | 3.4  | 10.3 | 20.7 | 24.1 | 6.9  | 0.0 | 0.0 | 3.4 | 3.4 | 6.9  | 0.0  | 100.  |
| 5          | 0.0  | 3.4 | 3.4  | 0.0  | 3.4 | 10.3 | 3.4  | 10.3 | 17.2 | 17.2 | 13.8 | 0.0 | 0.0 | 3.4 | 3.4 | 10.3 | 0.0  | 100.  |
| 6          | 0.0  | 3.4 | 3.4  | 0.0  | 0.0 | 10.3 | 6.9  | 17.2 | 10.3 | 17.2 | 13.8 | 0.0 | 3.4 | 0.0 | 3.4 | 10.3 | 0.0  | 100.  |
| 7          | 6.9  | 0.0 | 3.4  | 0.0  | 3.4 | 13.8 | 3.4  | 13.8 | 17.2 | 20.7 | 3.4  | 3.4 | 0.0 | 6.9 | 0.0 | 3.4  | 0.0  | 100.  |
| 8          | 3.4  | 3.4 | 3.4  | 3.4  | 3.4 | 6.9  | 6.9  | 6.9  | 27.6 | 17.2 | 3.4  | 0.0 | 3.4 | 0.0 | 3.4 | 6.9  | 0.0  | 100.  |
| 9          | 10.3 | 3.4 | 0.0  | 0.0  | 3.4 | 6.9  | 6.9  | 3.4  | 24.1 | 20.7 | 3.4  | 6.9 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0  | 100.  |
| 10         | 10.3 | 3.4 | 0.0  | 0.0  | 0.0 | 10.3 | 6.9  | 3.4  | 17.2 | 24.1 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0  | 100.  |
| 11         | 3.4  | 0.0 | 6.9  | 0.0  | 0.0 | 6.9  | 13.8 | 0.0  | 20.7 | 17.2 | 10.3 | 3.4 | 3.4 | 0.0 | 3.4 | 17.2 | 0.0  | 100.  |
| 12         | 3.4  | 0.0 | 6.9  | 3.4  | 0.0 | 6.9  | 10.3 | 3.4  | 27.6 | 10.3 | 6.9  | 0.0 | 0.0 | 0.0 | 3.4 | 13.8 | 0.0  | 100.  |
| 13         | 3.4  | 0.0 | 3.4  | 0.0  | 3.4 | 6.9  | 6.9  | 10.3 | 24.1 | 20.7 | 3.4  | 0.0 | 0.0 | 0.0 | 3.4 | 17.2 | 0.0  | 100.  |
| 14         | 3.4  | 0.0 | 10.3 | 0.0  | 0.0 | 3.4  | 6.9  | 20.7 | 17.2 | 13.8 | 6.9  | 0.0 | 0.0 | 0.0 | 3.4 | 13.8 | 0.0  | 100.  |
| 15         | 0.0  | 7.1 | 0.0  | 3.6  | 0.0 | 3.6  | 7.1  | 14.3 | 28.6 | 14.3 | 3.6  | 0.0 | 0.0 | 0.0 | 3.6 | 14.3 | 0.0  | 100.  |
| 16         | 3.6  | 3.6 | 3.6  | 0.0  | 0.0 | 3.6  | 10.7 | 17.9 | 17.9 | 17.9 | 3.6  | 0.0 | 0.0 | 3.6 | 0.0 | 14.3 | 0.0  | 100.  |
| 17         | 0.0  | 0.0 | 6.9  | 3.4  | 0.0 | 6.9  | 6.9  | 17.2 | 17.2 | 17.2 | 3.4  | 0.0 | 0.0 | 3.4 | 0.0 | 17.2 | 0.0  | 100.  |
| 18         | 6.9  | 3.4 | 3.4  | 3.4  | 0.0 | 6.9  | 10.3 | 27.6 | 6.9  | 17.2 | 0.0  | 3.4 | 0.0 | 3.4 | 0.0 | 6.9  | 0.0  | 100.  |
| 19         | 6.9  | 0.0 | 3.4  | 3.4  | 3.4 | 6.9  | 10.3 | 31.0 | 17.2 | 3.4  | 0.0  | 0.0 | 3.4 | 0.0 | 0.0 | 10.3 | 0.0  | 100.  |
| 20         | 13.8 | 0.0 | 0.0  | 3.4  | 0.0 | 3.4  | 10.3 | 24.1 | 13.8 | 13.8 | 3.4  | 0.0 | 3.4 | 0.0 | 0.0 | 3.4  | 0.0  | 100.  |
| 21         | 3.4  | 3.4 | 3.4  | 3.4  | 0.0 | 10.3 | 6.9  | 31.0 | 10.3 | 13.8 | 0.0  | 3.4 | 0.0 | 0.0 | 3.4 | 6.9  | 0.0  | 100.  |
| 22         | 0.0  | 0.0 | 3.4  | 6.9  | 0.0 | 3.4  | 13.8 | 27.6 | 17.2 | 6.9  | 3.4  | 0.0 | 3.4 | 0.0 | 3.4 | 10.3 | 0.0  | 100.  |
| 23         | 3.4  | 0.0 | 0.0  | 13.8 | 0.0 | 3.4  | 3.4  | 34.5 | 13.8 | 10.3 | 6.9  | 0.0 | 0.0 | 0.0 | 3.4 | 6.9  | 0.0  | 100.  |
| 24         | 3.4  | 0.0 | 3.4  | 6.9  | 3.4 | 3.4  | 3.4  | 13.8 | 27.6 | 20.7 | 3.4  | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0  | 100.  |
| ALL        | 4.3  | 1.7 | 3.0  | 2.6  | 1.9 | 6.5  | 6.9  | 15.2 | 19.2 | 17.5 | 5.8  | 1.3 | 1.0 | 1.0 | 1.7 | 10.4 | 0.0  | 100.  |

NUMBER OF OBS = 693

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

NOVEMBER

| HR. OF DAY | WIND DIRECTION |      |     |     |     |     |      |      |      |      |     |      |      |      |      |      | CALM | TOTAL |
|------------|----------------|------|-----|-----|-----|-----|------|------|------|------|-----|------|------|------|------|------|------|-------|
|            | N              | NNE  | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW  | WSW  | W    | WNW  | NW   | NNW  |      |       |
| 1          | 6.7            | 6.7  | 0.0 | 0.0 | 0.0 | 3.3 | 6.7  | 6.7  | 3.3  | 6.7  | 0.0 | 6.7  | 13.3 | 20.0 | 13.3 | 6.7  | 0.0  | 100.  |
| 2          | 10.0           | 0.0  | 0.0 | 0.0 | 3.3 | 3.3 | 6.7  | 6.7  | 6.7  | 6.7  | 3.3 | 3.3  | 16.7 | 13.3 | 13.3 | 6.7  | 0.0  | 100.  |
| 3          | 6.7            | 0.0  | 0.0 | 0.0 | 3.3 | 3.3 | 0.0  | 13.3 | 10.0 | 3.3  | 3.3 | 3.3  | 16.7 | 10.0 | 16.7 | 10.0 | 0.0  | 100.  |
| 4          | 3.3            | 0.0  | 0.0 | 3.3 | 0.0 | 0.0 | 3.3  | 6.7  | 10.0 | 6.7  | 6.7 | 3.3  | 16.7 | 16.7 | 10.0 | 13.3 | 0.0  | 100.  |
| 5          | 0.0            | 0.0  | 0.0 | 0.0 | 3.3 | 0.0 | 6.7  | 3.3  | 13.3 | 3.3  | 0.0 | 0.0  | 16.7 | 26.7 | 10.0 | 16.7 | 0.0  | 100.  |
| 6          | 3.3            | 0.0  | 0.0 | 0.0 | 0.0 | 3.3 | 10.0 | 13.3 | 3.3  | 0.0  | 0.0 | 0.0  | 20.0 | 23.3 | 6.7  | 16.7 | 0.0  | 100.  |
| 7          | 3.3            | 0.0  | 0.0 | 0.0 | 0.0 | 3.3 | 6.7  | 16.7 | 6.7  | 0.0  | 0.0 | 3.3  | 20.0 | 16.7 | 10.0 | 16.7 | 0.0  | 100.  |
| 8          | 6.7            | 0.0  | 0.0 | 0.0 | 0.0 | 3.3 | 6.7  | 10.0 | 10.0 | 0.0  | 0.0 | 3.3  | 13.3 | 23.3 | 6.7  | 16.7 | 0.0  | 100.  |
| 9          | 6.7            | 0.0  | 0.0 | 0.0 | 0.0 | 6.7 | 3.3  | 3.3  | 16.7 | 0.0  | 0.0 | 3.3  | 20.0 | 13.3 | 10.0 | 16.7 | 0.0  | 100.  |
| 10         | 0.0            | 3.3  | 0.0 | 0.0 | 3.3 | 0.0 | 6.7  | 6.7  | 13.3 | 0.0  | 0.0 | 3.3  | 16.7 | 13.3 | 16.7 | 16.7 | 0.0  | 100.  |
| 11         | 3.3            | 3.3  | 0.0 | 3.3 | 3.3 | 3.3 | 3.3  | 3.3  | 13.3 | 3.3  | 0.0 | 3.3  | 16.7 | 10.0 | 23.3 | 6.7  | 0.0  | 100.  |
| 12         | 6.7            | 0.0  | 0.0 | 0.0 | 0.0 | 3.3 | 6.7  | 6.7  | 10.0 | 3.3  | 3.3 | 3.3  | 16.7 | 6.7  | 16.7 | 10.0 | 0.0  | 100.  |
| 13         | 0.0            | 3.3  | 0.0 | 3.3 | 0.0 | 3.3 | 6.7  | 6.7  | 10.0 | 0.0  | 0.0 | 10.0 | 20.0 | 10.0 | 20.0 | 10.0 | 0.0  | 100.  |
| 14         | 0.0            | 3.3  | 3.3 | 6.7 | 0.0 | 0.0 | 6.7  | 6.7  | 3.3  | 3.3  | 3.3 | 3.3  | 20.0 | 13.3 | 20.0 | 6.7  | 0.0  | 100.  |
| 15         | 0.0            | 6.7  | 3.3 | 0.0 | 6.7 | 3.3 | 3.3  | 6.7  | 3.3  | 3.3  | 3.3 | 6.7  | 10.0 | 10.0 | 26.7 | 6.7  | 0.0  | 100.  |
| 16         | 10.0           | 3.3  | 3.3 | 0.0 | 3.3 | 0.0 | 3.3  | 6.7  | 6.7  | 3.3  | 3.3 | 10.0 | 10.0 | 10.0 | 16.7 | 10.0 | 0.0  | 100.  |
| 17         | 16.7           | 0.0  | 0.0 | 3.3 | 3.3 | 0.0 | 3.3  | 6.7  | 6.7  | 6.7  | 0.0 | 6.7  | 13.3 | 6.7  | 16.7 | 10.0 | 0.0  | 100.  |
| 18         | 0.0            | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7  | 6.7  | 13.3 | 3.3  | 3.3 | 3.3  | 10.0 | 10.0 | 13.3 | 20.0 | 0.0  | 100.  |
| 19         | 10.0           | 3.3  | 3.3 | 0.0 | 0.0 | 0.0 | 10.0 | 6.7  | 3.3  | 10.0 | 3.3 | 3.3  | 10.0 | 10.0 | 13.3 | 13.3 | 0.0  | 100.  |
| 20         | 3.3            | 3.3  | 0.0 | 3.3 | 0.0 | 3.3 | 3.3  | 13.3 | 0.0  | 0.0  | 6.7 | 10.0 | 6.7  | 20.0 | 6.7  | 20.0 | 0.0  | 100.  |
| 21         | 6.7            | 0.0  | 0.0 | 0.0 | 3.3 | 3.3 | 3.3  | 6.7  | 6.7  | 3.3  | 3.3 | 6.7  | 13.3 | 13.3 | 16.7 | 13.3 | 0.0  | 100.  |
| 22         | 13.3           | 0.0  | 0.0 | 0.0 | 0.0 | 6.7 | 3.3  | 6.7  | 3.3  | 3.3  | 6.7 | 3.3  | 10.0 | 20.0 | 16.7 | 6.7  | 0.0  | 100.  |
| 23         | 6.7            | 6.7  | 0.0 | 0.0 | 0.0 | 6.7 | 3.3  | 6.7  | 3.3  | 3.3  | 3.3 | 10.0 | 13.3 | 13.3 | 20.0 | 3.3  | 0.0  | 100.  |
| 24         | 10.0           | 0.0  | 3.3 | 0.0 | 0.0 | 6.7 | 3.3  | 6.7  | 6.7  | 0.0  | 3.3 | 6.7  | 20.0 | 16.7 | 10.0 | 6.7  | 0.0  | 100.  |
| ALL        | 5.6            | 2.2  | 0.7 | 1.0 | 1.4 | 2.8 | 4.9  | 7.6  | 7.6  | 3.1  | 2.4 | 4.9  | 15.3 | 14.4 | 14.6 | 11.7 | 0.0  | 100.  |

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

DECEMBER

| HR. OF DAY | WIND DIRECTION |     |     |     |     |     |      |      |      |     |     |      |     |     |      |      | CALM | TOTAL |      |
|------------|----------------|-----|-----|-----|-----|-----|------|------|------|-----|-----|------|-----|-----|------|------|------|-------|------|
|            | N              | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW | SW  | WSW  | W   | WNW | NW   | NNW  |      |       |      |
| 1          | 6.5            | 0.0 | 0.0 | 3.2 | 3.2 | 3.2 | 12.9 | 9.7  | 6.5  | 9.7 | 6.5 | 0.0  | 0.0 | 3.2 | 25.8 | 9.7  | 0.0  | 100.  |      |
| 2          | 6.5            | 0.0 | 3.2 | 3.2 | 0.0 | 6.5 | 9.7  | 12.9 | 0.0  | 6.5 | 0.0 | 0.0  | 6.5 | 3.2 | 19.4 | 16.1 | 0.0  | 100.  |      |
| 3          | 3.2            | 0.0 | 3.2 | 3.2 | 0.0 | 0.0 | 6.5  | 19.4 | 3.2  | 0.0 | 9.7 | 0.0  | 0.0 | 9.7 | 19.4 | 22.6 | 0.0  | 100.  |      |
| 4          | 3.2            | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 9.7  | 9.7  | 6.5  | 3.2 | 9.7 | 0.0  | 0.0 | 6.5 | 19.4 | 25.8 | 0.0  | 100.  |      |
| 5          | 6.5            | 3.2 | 0.0 | 3.2 | 0.0 | 3.2 | 6.5  | 3.2  | 6.5  | 3.2 | 3.2 | 12.9 | 0.0 | 6.5 | 16.1 | 25.8 | 0.0  | 100.  |      |
| 6          | 16.1           | 3.2 | 0.0 | 0.0 | 3.2 | 3.2 | 6.5  | 3.2  | 6.5  | 0.0 | 3.2 | 6.5  | 6.5 | 9.7 | 25.8 | 6.5  | 0.0  | 100.  |      |
| 7          | 16.1           | 3.2 | 0.0 | 0.0 | 3.2 | 3.2 | 6.5  | 3.2  | 6.5  | 0.0 | 0.0 | 9.7  | 9.7 | 6.5 | 22.6 | 9.7  | 0.0  | 100.  |      |
| 8          | 6.5            | 3.2 | 3.2 | 0.0 | 9.7 | 0.0 | 9.7  | 3.2  | 6.5  | 0.0 | 3.2 | 9.7  | 3.2 | 6.5 | 22.6 | 12.9 | 0.0  | 100.  |      |
| 9          | 6.5            | 3.2 | 0.0 | 0.0 | 6.5 | 3.2 | 6.5  | 6.5  | 6.5  | 3.2 | 3.2 | 6.5  | 6.5 | 9.7 | 16.1 | 16.1 | 0.0  | 100.  |      |
| 10         | 9.7            | 0.0 | 3.2 | 0.0 | 3.2 | 3.2 | 6.5  | 6.5  | 9.7  | 0.0 | 3.2 | 3.2  | 3.2 | 9.7 | 19.4 | 19.4 | 0.0  | 100.  |      |
| 11         | 16.1           | 6.5 | 3.2 | 0.0 | 3.2 | 6.5 | 6.5  | 6.5  | 9.7  | 0.0 | 0.0 | 6.5  | 3.2 | 6.5 | 19.4 | 9.7  | 0.0  | 100.  |      |
| 12         | 16.1           | 0.0 | 0.0 | 3.2 | 6.5 | 0.0 | 12.9 | 3.2  | 9.7  | 0.0 | 0.0 | 3.2  | 6.5 | 6.5 | 22.6 | 9.7  | 0.0  | 100.  |      |
| 13         | 12.9           | 0.0 | 6.5 | 0.0 | 6.5 | 0.0 | 6.5  | 0.0  | 16.1 | 6.5 | 0.0 | 0.0  | 0.0 | 9.7 | 3.2  | 22.6 | 9.7  | 0.0   | 100. |
| 14         | 12.9           | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 6.5  | 3.2  | 16.1 | 0.0 | 3.2 | 0.0  | 6.5 | 3.2 | 25.8 | 12.9 | 0.0  | 100.  |      |
| 15         | 9.7            | 0.0 | 6.5 | 3.2 | 0.0 | 6.5 | 6.5  | 6.5  | 12.9 | 0.0 | 3.2 | 0.0  | 6.5 | 3.2 | 29.0 | 9.7  | 0.0  | 100.  |      |
| 16         | 9.7            | 3.2 | 6.5 | 3.2 | 0.0 | 3.2 | 9.7  | 9.7  | 6.5  | 0.0 | 3.2 | 0.0  | 3.2 | 6.5 | 29.0 | 6.5  | 0.0  | 100.  |      |
| 17         | 9.7            | 3.2 | 6.5 | 3.2 | 0.0 | 3.2 | 9.7  | 9.7  | 9.7  | 0.0 | 0.0 | 0.0  | 3.2 | 0.0 | 32.3 | 9.7  | 0.0  | 100.  |      |
| 18         | 6.5            | 6.5 | 3.2 | 3.2 | 3.2 | 3.2 | 6.5  | 12.9 | 6.5  | 0.0 | 0.0 | 3.2  | 3.2 | 0.0 | 25.8 | 12.9 | 0.0  | 100.  |      |
| 19         | 9.7            | 3.2 | 0.0 | 9.7 | 0.0 | 3.2 | 9.7  | 12.9 | 6.5  | 0.0 | 0.0 | 3.2  | 0.0 | 3.2 | 22.6 | 22.6 | 0.0  | 100.  |      |
| 20         | 6.5            | 0.0 | 6.5 | 6.5 | 0.0 | 3.2 | 6.5  | 12.9 | 6.5  | 0.0 | 0.0 | 3.2  | 0.0 | 3.2 | 19.4 | 19.4 | 0.0  | 100.  |      |
| 21         | 9.7            | 0.0 | 9.7 | 3.2 | 3.2 | 3.2 | 6.5  | 9.7  | 6.5  | 3.2 | 3.2 | 0.0  | 0.0 | 3.2 | 25.8 | 12.9 | 0.0  | 100.  |      |
| 22         | 6.5            | 3.2 | 3.2 | 3.2 | 3.2 | 6.5 | 9.7  | 6.5  | 12.9 | 0.0 | 3.2 | 0.0  | 0.0 | 9.7 | 19.4 | 16.1 | 0.0  | 100.  |      |
| 23         | 3.2            | 3.2 | 0.0 | 9.7 | 0.0 | 6.5 | 9.7  | 9.7  | 3.2  | 6.5 | 3.2 | 0.0  | 0.0 | 0.0 | 22.6 | 19.4 | 0.0  | 100.  |      |
| 24         | 6.5            | 0.0 | 0.0 | 0.0 | 9.7 | 3.2 | 9.7  | 9.7  | 6.5  | 6.5 | 6.5 | 0.0  | 0.0 | 0.0 | 22.6 | 19.4 | 0.0  | 100.  |      |
| ALL        | 9.0            | 2.2 | 3.0 | 2.7 | 2.7 | 3.1 | 8.2  | 7.8  | 7.8  | 2.0 | 3.1 | 2.8  | 3.2 | 5.5 | 22.7 | 14.2 | 0.0  | 100.  |      |

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION OCT-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

OCT-DEC

WIND DIRECTION

| HR. OF DAY | N   | NNE | NE  | ENE | E   | ESE | SE   | SSE  | S    | SSW  | SW  | WSW | W    | WNW  | NW   | NNW  | CALM | TOTAL |
|------------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|------|------|------|------|------|-------|
| 1          | 5.6 | 3.3 | 0.0 | 2.2 | 2.2 | 3.3 | 6.7  | 8.9  | 12.2 | 12.2 | 5.6 | 3.3 | 4.4  | 7.8  | 14.4 | 7.8  | 0.0  | 100.  |
| 2          | 6.7 | 0.0 | 2.2 | 1.1 | 2.2 | 4.5 | 6.7  | 9.0  | 7.9  | 14.6 | 5.6 | 2.2 | 9.0  | 5.6  | 11.2 | 11.2 | 0.0  | 100.  |
| 3          | 4.4 | 0.0 | 1.1 | 2.2 | 2.2 | 3.3 | 3.3  | 13.3 | 11.1 | 10.0 | 6.7 | 2.2 | 5.6  | 6.7  | 12.2 | 15.6 | 0.0  | 100.  |
| 4          | 4.4 | 2.2 | 1.1 | 1.1 | 1.1 | 4.4 | 5.6  | 8.9  | 12.2 | 11.1 | 7.8 | 1.1 | 5.6  | 8.9  | 11.1 | 15.6 | 0.0  | 100.  |
| 5          | 2.2 | 2.2 | 1.1 | 1.1 | 2.2 | 4.4 | 5.6  | 5.6  | 12.2 | 7.8  | 5.6 | 4.4 | 5.6  | 12.2 | 10.0 | 17.8 | 0.0  | 100.  |
| 6          | 6.7 | 2.2 | 1.1 | 0.0 | 1.1 | 5.6 | 7.8  | 11.1 | 6.7  | 5.6  | 5.6 | 2.2 | 10.0 | 11.1 | 12.2 | 11.1 | 0.0  | 100.  |
| 7          | 8.9 | 1.1 | 1.1 | 0.0 | 2.2 | 6.7 | 4.4  | 11.1 | 10.0 | 6.7  | 1.1 | 5.6 | 10.0 | 10.0 | 11.1 | 10.0 | 0.0  | 100.  |
| 8          | 5.6 | 2.2 | 2.2 | 1.1 | 4.4 | 3.3 | 7.8  | 6.7  | 14.4 | 5.6  | 2.2 | 4.4 | 6.7  | 10.0 | 11.1 | 12.2 | 0.0  | 100.  |
| 9          | 7.8 | 2.2 | 0.0 | 0.0 | 3.3 | 5.6 | 5.6  | 4.4  | 15.6 | 7.8  | 2.2 | 5.6 | 8.9  | 7.8  | 8.9  | 14.4 | 0.0  | 100.  |
| 10         | 6.7 | 2.2 | 1.1 | 1.1 | 2.2 | 4.4 | 6.7  | 5.6  | 13.3 | 7.8  | 5.6 | 2.2 | 6.7  | 7.8  | 12.2 | 15.6 | 0.0  | 100.  |
| 11         | 7.8 | 3.3 | 3.3 | 1.1 | 2.2 | 4.4 | 7.8  | 3.3  | 14.4 | 6.7  | 3.3 | 4.4 | 7.8  | 5.6  | 14.4 | 10.0 | 0.0  | 100.  |
| 12         | 8.9 | 0.0 | 2.2 | 2.2 | 2.2 | 3.3 | 10.0 | 4.4  | 15.6 | 4.4  | 3.3 | 2.2 | 10.0 | 4.4  | 14.4 | 12.2 | 0.0  | 100.  |
| 13         | 5.6 | 1.1 | 3.3 | 1.1 | 3.3 | 3.3 | 5.6  | 5.6  | 16.7 | 8.9  | 1.1 | 3.3 | 10.0 | 4.4  | 15.6 | 11.1 | 0.0  | 100.  |
| 14         | 5.6 | 2.2 | 5.6 | 3.3 | 0.0 | 2.2 | 6.7  | 10.0 | 12.2 | 5.6  | 4.4 | 1.1 | 8.9  | 7.8  | 15.6 | 8.9  | 0.0  | 100.  |
| 15         | 3.4 | 4.5 | 3.4 | 2.2 | 2.2 | 4.5 | 5.6  | 7.9  | 14.6 | 5.6  | 3.4 | 2.2 | 5.6  | 4.5  | 19.1 | 11.2 | 0.0  | 100.  |
| 16         | 7.9 | 3.4 | 4.5 | 1.1 | 1.1 | 2.2 | 7.9  | 11.2 | 10.1 | 6.7  | 3.4 | 3.4 | 4.5  | 5.6  | 15.7 | 11.2 | 0.0  | 100.  |
| 17         | 8.9 | 1.1 | 4.4 | 3.3 | 1.1 | 3.3 | 6.7  | 11.1 | 11.1 | 7.8  | 1.1 | 2.2 | 5.6  | 5.6  | 15.6 | 11.1 | 0.0  | 100.  |
| 18         | 4.4 | 6.7 | 2.2 | 2.2 | 1.1 | 3.3 | 7.8  | 15.6 | 8.9  | 6.7  | 1.1 | 3.3 | 4.4  | 4.4  | 15.6 | 12.2 | 0.0  | 100.  |
| 19         | 8.9 | 2.2 | 2.2 | 4.4 | 1.1 | 3.3 | 10.0 | 16.7 | 8.9  | 4.4  | 1.1 | 2.2 | 4.4  | 4.4  | 13.3 | 12.2 | 0.0  | 100.  |
| 20         | 7.8 | 1.1 | 2.2 | 4.4 | 2.2 | 3.3 | 6.7  | 16.7 | 6.7  | 4.4  | 3.3 | 4.4 | 3.3  | 7.8  | 10.0 | 15.6 | 0.0  | 100.  |
| 21         | 6.7 | 1.1 | 4.4 | 2.2 | 2.2 | 5.6 | 5.6  | 15.6 | 7.8  | 6.7  | 2.2 | 3.3 | 4.4  | 5.6  | 13.3 | 13.3 | 0.0  | 100.  |
| 22         | 6.7 | 1.1 | 2.2 | 3.3 | 1.1 | 5.6 | 8.9  | 13.3 | 11.1 | 3.3  | 4.4 | 1.1 | 4.4  | 7.8  | 15.6 | 10.0 | 0.0  | 100.  |
| 23         | 4.4 | 3.3 | 0.0 | 7.8 | 0.0 | 5.6 | 5.6  | 16.7 | 6.7  | 4.4  | 3.3 | 3.3 | 4.4  | 7.8  | 14.4 | 8.9  | 0.0  | 100.  |
| 24         | 6.7 | 0.0 | 2.2 | 2.2 | 4.4 | 4.4 | 5.6  | 10.0 | 13.3 | 8.9  | 4.4 | 2.2 | 6.7  | 5.6  | 11.1 | 12.2 | 0.0  | 100.  |
| ALL        | 6.4 | 2.0 | 2.2 | 2.1 | 2.0 | 4.1 | 6.7  | 10.1 | 11.4 | 7.3  | 3.7 | 3.0 | 6.5  | 7.0  | 13.3 | 12.1 | 0.0  | 100.  |

NUMBER OF OBS = 2157

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JUL-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JUL-DEC

| HR. OF DAY | WIND DIRECTION |     |     |     |     |      |      |      |      |      |     |     |     |     |      |      | TOTAL |      |
|------------|----------------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|------|------|-------|------|
|            | N              | NNE | NE  | ENE | E   | ESE  | SE   | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  |       | CALM |
| 1          | 5.7            | 4.0 | 1.1 | 3.4 | 6.9 | 6.3  | 8.6  | 9.1  | 15.4 | 10.9 | 4.6 | 2.9 | 2.9 | 4.0 | 8.6  | 5.7  | 0.0   | 100. |
| 2          | 6.9            | 2.3 | 3.4 | 1.1 | 3.4 | 8.6  | 10.9 | 7.5  | 13.2 | 13.2 | 2.9 | 4.0 | 4.6 | 3.4 | 6.9  | 6.9  | 0.6   | 100. |
| 3          | 7.4            | 2.3 | 1.7 | 1.7 | 5.1 | 7.4  | 8.0  | 10.3 | 12.6 | 10.3 | 6.9 | 2.3 | 2.9 | 4.6 | 6.9  | 9.7  | 0.0   | 100. |
| 4          | 9.1            | 2.3 | 2.9 | 1.7 | 3.4 | 7.4  | 7.4  | 7.4  | 12.0 | 10.3 | 6.9 | 2.3 | 4.6 | 5.7 | 6.3  | 10.3 | 0.0   | 100. |
| 5          | 6.3            | 2.3 | 2.3 | 1.1 | 2.9 | 10.9 | 7.4  | 7.4  | 12.6 | 8.0  | 6.3 | 4.0 | 3.4 | 6.9 | 6.3  | 12.0 | 0.0   | 100. |
| 6          | 6.9            | 3.4 | 2.3 | 0.6 | 2.9 | 8.6  | 8.6  | 12.0 | 10.3 | 5.7  | 6.9 | 4.0 | 5.1 | 6.9 | 7.4  | 8.6  | 0.0   | 100. |
| 7          | 8.0            | 3.4 | 1.7 | 1.1 | 2.9 | 9.1  | 8.0  | 10.3 | 13.7 | 6.3  | 2.3 | 6.3 | 6.3 | 6.9 | 6.3  | 7.4  | 0.0   | 100. |
| 8          | 6.9            | 2.9 | 3.4 | 1.1 | 4.0 | 7.4  | 8.6  | 9.1  | 15.4 | 6.3  | 4.0 | 4.6 | 4.0 | 5.1 | 7.4  | 9.7  | 0.0   | 100. |
| 9          | 6.3            | 2.9 | 2.3 | 1.1 | 4.0 | 7.4  | 6.3  | 7.4  | 16.0 | 11.4 | 2.3 | 4.6 | 5.7 | 5.1 | 4.6  | 12.6 | 0.0   | 100. |
| 10         | 6.9            | 4.0 | 2.3 | 2.3 | 1.7 | 6.9  | 9.1  | 5.7  | 14.9 | 9.7  | 5.1 | 3.4 | 3.4 | 5.7 | 7.4  | 11.4 | 0.0   | 100. |
| 11         | 8.0            | 3.4 | 4.0 | 2.9 | 2.9 | 5.7  | 9.7  | 5.7  | 15.4 | 8.6  | 4.0 | 2.9 | 4.0 | 3.4 | 9.7  | 9.7  | 0.0   | 100. |
| 12         | 9.2            | 1.7 | 2.3 | 4.0 | 3.4 | 8.0  | 10.3 | 5.7  | 15.5 | 6.3  | 2.9 | 2.9 | 5.2 | 2.9 | 8.6  | 10.9 | 0.0   | 100. |
| 13         | 8.0            | 4.0 | 2.3 | 2.3 | 4.6 | 6.9  | 8.6  | 6.3  | 14.9 | 8.6  | 3.4 | 2.3 | 5.2 | 2.9 | 9.8  | 9.8  | 0.0   | 100. |
| 14         | 8.6            | 4.0 | 5.1 | 2.9 | 2.9 | 5.7  | 6.9  | 12.0 | 10.9 | 7.4  | 5.7 | 1.1 | 4.6 | 5.7 | 8.0  | 8.6  | 0.0   | 100. |
| 15         | 7.5            | 4.6 | 5.2 | 2.3 | 3.5 | 8.1  | 7.5  | 8.7  | 14.5 | 6.4  | 3.5 | 2.3 | 2.9 | 2.9 | 11.0 | 9.2  | 0.0   | 100. |
| 16         | 8.6            | 5.2 | 5.2 | 2.9 | 2.9 | 7.5  | 8.0  | 12.6 | 10.9 | 7.5  | 3.4 | 1.7 | 2.9 | 2.9 | 8.6  | 9.2  | 0.0   | 100. |
| 17         | 9.7            | 2.3 | 5.7 | 3.4 | 5.1 | 5.7  | 10.9 | 11.4 | 10.9 | 5.7  | 2.9 | 1.1 | 2.9 | 2.9 | 8.6  | 10.9 | 0.0   | 100. |
| 18         | 6.9            | 7.4 | 3.4 | 5.1 | 2.9 | 6.9  | 11.4 | 12.0 | 10.9 | 6.9  | 1.1 | 1.7 | 2.3 | 2.9 | 8.6  | 9.7  | 0.0   | 100. |
| 19         | 8.0            | 4.0 | 4.6 | 4.6 | 4.0 | 9.1  | 12.6 | 14.3 | 7.4  | 4.6  | 2.3 | 1.1 | 2.9 | 2.3 | 8.0  | 10.3 | 0.0   | 100. |
| 20         | 6.3            | 4.0 | 4.6 | 4.6 | 5.7 | 9.1  | 8.6  | 15.4 | 7.4  | 4.6  | 2.9 | 3.4 | 1.7 | 4.0 | 5.1  | 12.6 | 0.0   | 100. |
| 21         | 7.4            | 2.3 | 5.1 | 4.6 | 5.7 | 10.3 | 8.0  | 16.0 | 8.6  | 5.1  | 2.9 | 2.3 | 2.3 | 2.9 | 7.4  | 9.1  | 0.0   | 100. |
| 22         | 7.4            | 1.7 | 4.6 | 5.7 | 5.7 | 8.6  | 9.7  | 13.7 | 12.0 | 3.4  | 3.4 | 0.6 | 2.9 | 4.0 | 8.6  | 8.0  | 0.0   | 100. |
| 23         | 5.7            | 2.3 | 2.9 | 7.4 | 3.4 | 11.4 | 8.6  | 14.3 | 12.0 | 4.6  | 4.6 | 2.3 | 2.3 | 4.0 | 7.4  | 6.9  | 0.0   | 100. |
| 24         | 5.1            | 4.0 | 2.3 | 4.0 | 6.9 | 6.9  | 8.6  | 11.4 | 13.7 | 9.1  | 4.0 | 2.3 | 3.4 | 2.9 | 6.9  | 8.6  | 0.0   | 100. |
| ALL        | 7.4            | 3.4 | 3.4 | 3.0 | 4.0 | 7.9  | 8.8  | 10.3 | 12.5 | 7.5  | 4.0 | 2.8 | 3.7 | 4.2 | 7.7  | 9.5  | 0.0   | 100. |

NUMBER OF OBS = 4194



NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-DEC 2000

PROGRAM: WINPER  
VERSION: 2P

HOURLY WIND ROSES (PERCENT)

JAN-DEC

| HR. OF DAY | WIND DIRECTION |     |     |     |     |     |     |      |      |      |     |     |     |     |      |      | CALM | TOTAL |
|------------|----------------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|------|------|------|-------|
|            | N              | NNE | NE  | ENE | E   | ESE | SE  | SSE  | S    | SSW  | SW  | WSW | W   | WNW | NW   | NNW  |      |       |
| 1          | 5.9            | 3.4 | 2.0 | 2.2 | 5.3 | 5.9 | 9.0 | 10.4 | 14.3 | 8.1  | 5.9 | 2.8 | 3.4 | 5.0 | 10.4 | 6.2  | 0.0  | 100.  |
| 2          | 7.3            | 3.4 | 3.1 | 1.7 | 3.1 | 7.3 | 9.9 | 7.6  | 13.0 | 11.8 | 3.9 | 2.8 | 3.9 | 4.8 | 8.7  | 7.3  | 0.3  | 100.  |
| 3          | 7.8            | 2.5 | 2.5 | 2.0 | 4.5 | 7.6 | 7.0 | 8.7  | 13.2 | 9.0  | 6.4 | 2.5 | 3.6 | 4.8 | 9.2  | 8.7  | 0.0  | 100.  |
| 4          | 9.2            | 2.8 | 2.2 | 2.5 | 3.4 | 7.8 | 6.7 | 9.0  | 12.3 | 9.0  | 5.6 | 2.8 | 4.5 | 4.8 | 9.2  | 8.1  | 0.0  | 100.  |
| 5          | 8.4            | 2.2 | 2.2 | 2.0 | 3.1 | 8.4 | 6.4 | 8.7  | 14.0 | 7.0  | 5.9 | 4.5 | 3.6 | 5.0 | 9.0  | 9.5  | 0.0  | 100.  |
| 6          | 7.3            | 3.4 | 2.8 | 1.7 | 2.8 | 7.8 | 7.0 | 11.2 | 12.6 | 6.7  | 5.0 | 4.2 | 3.6 | 6.2 | 7.8  | 9.8  | 0.0  | 100.  |
| 7          | 8.4            | 3.1 | 2.0 | 2.0 | 4.2 | 6.4 | 7.3 | 10.4 | 14.3 | 6.7  | 3.6 | 4.8 | 4.2 | 6.2 | 8.1  | 8.4  | 0.0  | 100.  |
| 8          | 6.7            | 2.8 | 2.5 | 1.4 | 4.5 | 6.4 | 7.3 | 9.8  | 14.0 | 7.8  | 4.8 | 5.0 | 2.8 | 5.3 | 9.0  | 9.8  | 0.0  | 100.  |
| 9          | 7.0            | 2.8 | 2.2 | 1.1 | 4.8 | 6.2 | 5.9 | 7.3  | 16.0 | 9.8  | 4.2 | 3.9 | 5.3 | 4.5 | 7.3  | 11.5 | 0.0  | 100.  |
| 10         | 7.6            | 3.7 | 2.0 | 2.0 | 2.8 | 6.7 | 7.0 | 7.6  | 14.3 | 9.8  | 5.9 | 3.4 | 4.2 | 4.8 | 7.0  | 11.2 | 0.0  | 100.  |
| 11         | 8.1            | 3.1 | 3.1 | 1.7 | 2.8 | 7.0 | 8.1 | 7.0  | 14.0 | 9.6  | 3.7 | 3.7 | 4.8 | 3.4 | 8.7  | 11.2 | 0.0  | 100.  |
| 12         | 9.3            | 2.3 | 2.0 | 2.5 | 2.8 | 7.9 | 8.5 | 8.5  | 15.2 | 7.6  | 3.7 | 3.1 | 4.5 | 3.9 | 7.3  | 11.0 | 0.0  | 100.  |
| 13         | 9.3            | 3.1 | 1.7 | 1.7 | 4.2 | 5.9 | 7.3 | 7.6  | 15.2 | 9.3  | 3.9 | 3.1 | 4.8 | 5.1 | 7.3  | 10.4 | 0.0  | 100.  |
| 14         | 8.1            | 3.9 | 3.4 | 2.2 | 2.8 | 5.1 | 7.0 | 10.4 | 11.5 | 10.1 | 4.2 | 3.1 | 4.2 | 5.9 | 7.3  | 10.7 | 0.0  | 100.  |
| 15         | 7.4            | 3.1 | 4.0 | 2.3 | 3.1 | 5.7 | 8.2 | 7.6  | 14.7 | 8.2  | 4.2 | 3.7 | 2.5 | 4.0 | 10.2 | 11.0 | 0.0  | 100.  |
| 16         | 7.6            | 4.2 | 3.7 | 2.8 | 3.7 | 5.4 | 7.3 | 9.9  | 12.4 | 9.9  | 3.7 | 2.0 | 3.7 | 3.7 | 8.2  | 11.9 | 0.0  | 100.  |
| 17         | 6.7            | 3.7 | 4.5 | 3.1 | 3.9 | 4.8 | 8.4 | 10.4 | 12.6 | 7.6  | 3.4 | 3.7 | 2.5 | 3.4 | 7.6  | 13.8 | 0.0  | 100.  |
| 18         | 7.3            | 5.0 | 3.6 | 4.2 | 3.1 | 5.0 | 9.5 | 10.9 | 12.0 | 6.7  | 3.4 | 2.8 | 2.5 | 2.5 | 8.4  | 12.9 | 0.0  | 100.  |
| 19         | 7.6            | 3.6 | 3.9 | 3.9 | 5.3 | 6.7 | 9.2 | 11.2 | 12.0 | 5.9  | 3.1 | 2.2 | 2.8 | 2.2 | 6.7  | 13.4 | 0.0  | 100.  |
| 20         | 7.0            | 3.6 | 3.1 | 3.6 | 7.3 | 6.2 | 7.0 | 13.4 | 11.8 | 5.3  | 3.9 | 2.2 | 3.1 | 2.8 | 7.6  | 12.0 | 0.0  | 100.  |
| 21         | 7.0            | 2.8 | 3.6 | 3.4 | 6.7 | 7.6 | 7.6 | 14.3 | 12.3 | 6.2  | 3.4 | 1.7 | 2.0 | 3.4 | 8.4  | 9.8  | 0.0  | 100.  |
| 22         | 6.2            | 3.6 | 3.6 | 4.2 | 3.6 | 9.5 | 7.8 | 12.9 | 14.3 | 5.9  | 2.2 | 1.4 | 2.2 | 5.3 | 8.4  | 8.7  | 0.0  | 100.  |
| 23         | 5.3            | 3.4 | 3.1 | 4.8 | 3.6 | 9.0 | 9.0 | 12.3 | 13.7 | 6.4  | 3.6 | 2.8 | 3.4 | 3.4 | 7.6  | 8.7  | 0.0  | 100.  |
| 24         | 6.5            | 3.4 | 2.8 | 2.8 | 4.5 | 6.7 | 8.1 | 11.8 | 13.8 | 8.1  | 4.8 | 2.8 | 3.4 | 4.5 | 7.0  | 9.0  | 0.0  | 100.  |
| ALL        | 7.5            | 3.3 | 2.9 | 2.6 | 4.0 | 6.8 | 7.8 | 10.0 | 13.5 | 8.0  | 4.3 | 3.1 | 3.6 | 4.4 | 8.2  | 10.2 | 0.0  | 100.  |

NUMBER OF OBS = 8549

## Precipitation

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM | 2AM<br>2PM | 3AM<br>3PM | 4AM<br>4PM | 5AM<br>5PM | 6AM<br>6PM | 7AM<br>7PM | 8AM<br>8PM | 9AM<br>9PM | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------|---------------|-------|
| 0  | 1   | 1   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 2   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 3   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 4   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 5   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 6   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 7   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 8   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 9   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 10  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 11  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 12  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 13  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 14  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 15  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 16  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 1   | 17  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12M<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 1   | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 1   | 31  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

MONTH OF JANUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 24 - 0.00 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 19 - 0.00 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 13 - 0.00 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 7 - 0.00 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 1 - 0.00 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 386  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF JANUARY

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

AMOUNT INCHES

| AMOUNT INCHES | DURATION (HOURS) |   |    |    |    |
|---------------|------------------|---|----|----|----|
|               | 1                | 6 | 12 | 18 | 24 |
| 0.01          | 0                | 0 | 0  | 0  | 0  |
| 0.02          | 0                | 0 | 0  | 0  | 0  |
| 0.03          | 0                | 0 | 0  | 0  | 0  |
| 0.04          | 0                | 0 | 0  | 0  | 0  |
| 0.05          | 0                | 0 | 0  | 0  | 0  |
| 0.07          | 0                | 0 | 0  | 0  | 0  |
| 0.10          | 0                | 0 | 0  | 0  | 0  |
| 0.15          | 0                | 0 | 0  | 0  | 0  |
| 0.20          | 0                | 0 | 0  | 0  | 0  |
| 0.25          | 0                | 0 | 0  | 0  | 0  |
| 0.30          | 0                | 0 | 0  | 0  | 0  |
| 0.35          | 0                | 0 | 0  | 0  | 0  |
| 0.40          | 0                | 0 | 0  | 0  | 0  |
| 0.45          | 0                | 0 | 0  | 0  | 0  |
| 0.50          | 0                | 0 | 0  | 0  | 0  |
| 0.60          | 0                | 0 | 0  | 0  | 0  |
| 0.70          | 0                | 0 | 0  | 0  | 0  |
| 0.80          | 0                | 0 | 0  | 0  | 0  |
| 0.90          | 0                | 0 | 0  | 0  | 0  |
| 1.00          | 0                | 0 | 0  | 0  | 0  |
| 1.10          | 0                | 0 | 0  | 0  | 0  |
| 1.20          | 0                | 0 | 0  | 0  | 0  |
| 1.30          | 0                | 0 | 0  | 0  | 0  |
| 1.40          | 0                | 0 | 0  | 0  | 0  |
| 1.50          | 0                | 0 | 0  | 0  | 0  |
| 1.60          | 0                | 0 | 0  | 0  | 0  |
| 1.70          | 0                | 0 | 0  | 0  | 0  |
| 1.80          | 0                | 0 | 0  | 0  | 0  |
| 1.90          | 0                | 0 | 0  | 0  | 0  |
| 2.00          | 0                | 0 | 0  | 0  | 0  |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 2000

| YR | MON | DAY | 1AM<br>1PM | 2AM<br>2PM | 3AM<br>3PM | 4AM<br>4PM | 5AM<br>5PM | 6AM<br>6PM | 7AM<br>7PM | 8AM<br>8PM | 9AM<br>9PM | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------|---------------|-------|
| 0  | 2   | 1   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 2   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 3   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 4   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 5   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 6   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 7   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 8   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 9   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 10  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 11  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 12  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 13  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 14  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 15  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 16  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |
| 0  | 2   | 17  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 2   | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 2   | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 2   | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 2   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 2   | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 2   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00  | 0.30  |
| 0  | 2   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 2   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 2   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 2   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 2   | 28  | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 2   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |



MONTH OF FEBRUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 696  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 7  
 TOTAL DAYS WITH PRECIPITATION - 5  
 TOTAL AMOUNT OF PRECIPITATION - 0.70 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.30 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 28 HOUR 14 - 0.10 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 23 HOUR 9 - 0.20 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 23 HOUR 3 - 0.30 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 21 - 0.40 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 21 - 0.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 210  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF FEBRUARY

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |    |    | 18  | 24 |
|------------------|------------------|----|----|----|-----|----|
|                  | 1                | 6  | 12 | 18 |     |    |
| 0.01             | 7                | 38 | 62 | 86 | 110 |    |
| 0.02             | 7                | 38 | 62 | 86 | 110 |    |
| 0.03             | 7                | 38 | 62 | 86 | 110 |    |
| 0.04             | 7                | 38 | 62 | 86 | 110 |    |
| 0.05             | 7                | 38 | 62 | 86 | 110 |    |
| 0.07             | 7                | 38 | 62 | 86 | 110 |    |
| 0.10             | 7                | 38 | 62 | 86 | 110 |    |
| 0.15             | 0                | 4  | 18 | 24 | 30  |    |
| 0.20             | 0                | 4  | 18 | 24 | 30  |    |
| 0.25             | 0                | 0  | 4  | 12 | 18  |    |
| 0.30             | 0                | 0  | 4  | 12 | 18  |    |
| 0.35             | 0                | 0  | 0  | 4  | 10  |    |
| 0.40             | 0                | 0  | 0  | 4  | 0   |    |
| 0.45             | 0                | 0  | 0  | 0  | 0   |    |
| 0.50             | 0                | 0  | 0  | 0  | 0   |    |
| 0.60             | 0                | 0  | 0  | 0  | 0   |    |
| 0.70             | 0                | 0  | 0  | 0  | 0   |    |
| 0.80             | 0                | 0  | 0  | 0  | 0   |    |
| 0.90             | 0                | 0  | 0  | 0  | 0   |    |
| 1.00             | 0                | 0  | 0  | 0  | 0   |    |
| 1.10             | 0                | 0  | 0  | 0  | 0   |    |
| 1.20             | 0                | 0  | 0  | 0  | 0   |    |
| 1.30             | 0                | 0  | 0  | 0  | 0   |    |
| 1.40             | 0                | 0  | 0  | 0  | 0   |    |
| 1.50             | 0                | 0  | 0  | 0  | 0   |    |
| 1.60             | 0                | 0  | 0  | 0  | 0   |    |
| 1.70             | 0                | 0  | 0  | 0  | 0   |    |
| 1.80             | 0                | 0  | 0  | 0  | 0   |    |
| 1.90             | 0                | 0  | 0  | 0  | 0   |    |
| 2.00             | 0                | 0  | 0  | 0  | 0   |    |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 2000 RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12M<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 3   | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 8   | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.20<br>0.00 | 0.10<br>0.00  | 0.40  |
| 0  | 3   | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.90 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.90  |
| 0  | 3   | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 15  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 3   | 18  | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.13 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.23  |
| 0  | 3   | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.20  |
| 0  | 3   | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.20<br>0.00 | 0.00<br>0.00 | 0.20<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.40  |
| 0  | 3   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 3   | 31  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

MONTH OF MARCH

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 10  
 TOTAL DAYS WITH PRECIPITATION - 5  
 TOTAL AMOUNT OF PRECIPITATION - 2.13 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.90 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.90 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 12 HOUR 16 - 0.90 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 12 HOUR 16 - 0.90 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 12 HOUR 16 - 0.90 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 12 HOUR 16 - 0.90 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 12 HOUR 16 - 0.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 75  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF MARCH

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |    |     | 24  |
|------------------|------------------|----|----|-----|-----|
|                  | 1                | 6  | 12 | 18  |     |
| 0.01             | 10               | 44 | 77 | 101 | 125 |
| 0.02             | 10               | 44 | 77 | 101 | 125 |
| 0.03             | 10               | 44 | 77 | 101 | 125 |
| 0.04             | 10               | 44 | 77 | 101 | 125 |
| 0.05             | 10               | 44 | 77 | 101 | 125 |
| 0.07             | 10               | 44 | 77 | 101 | 125 |
| 0.10             | 10               | 44 | 77 | 101 | 125 |
| 0.15             | 4                | 27 | 57 | 86  | 110 |
| 0.20             | 4                | 27 | 57 | 86  | 110 |
| 0.25             | 1                | 15 | 34 | 58  | 82  |
| 0.30             | 1                | 15 | 34 | 58  | 82  |
| 0.35             | 1                | 10 | 24 | 43  | 67  |
| 0.40             | 1                | 10 | 24 | 43  | 67  |
| 0.45             | 1                | 6  | 12 | 18  | 24  |
| 0.50             | 1                | 6  | 12 | 18  | 24  |
| 0.60             | 1                | 6  | 12 | 18  | 24  |
| 0.70             | 1                | 6  | 12 | 18  | 24  |
| 0.80             | 1                | 6  | 12 | 18  | 24  |
| 0.90             | 1                | 6  | 12 | 18  | 24  |
| 1.00             | 0                | 0  | 0  | 0   | 0   |
| 1.10             | 0                | 0  | 0  | 0   | 0   |
| 1.20             | 0                | 0  | 0  | 0   | 0   |
| 1.30             | 0                | 0  | 0  | 0   | 0   |
| 1.40             | 0                | 0  | 0  | 0   | 0   |
| 1.50             | 0                | 0  | 0  | 0   | 0   |
| 1.60             | 0                | 0  | 0  | 0   | 0   |
| 1.70             | 0                | 0  | 0  | 0   | 0   |
| 1.80             | 0                | 0  | 0  | 0   | 0   |
| 1.90             | 0                | 0  | 0  | 0   | 0   |
| 2.00             | 0                | 0  | 0  | 0   | 0   |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2184  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 17  
 TOTAL DAYS WITH PRECIPITATION - 10  
 TOTAL AMOUNT OF PRECIPITATION - 2.83 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.90 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.90 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 12 HOUR 16 - 0.90 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 12 HOUR 16 - 0.90 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 12 HOUR 16 - 0.90 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 12 HOUR 16 - 0.90 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 12 HOUR 16 - 0.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 671  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |     |     |
|------------------|------------------|----|-----|-----|
|                  | 1                | 6  | 12  | 18  |
| 0.01             | 17               | 82 | 139 | 187 |
| 0.02             | 17               | 82 | 139 | 187 |
| 0.03             | 17               | 82 | 139 | 187 |
| 0.04             | 17               | 82 | 139 | 187 |
| 0.05             | 17               | 82 | 139 | 187 |
| 0.07             | 17               | 82 | 139 | 187 |
| 0.10             | 17               | 82 | 139 | 187 |
| 0.15             | 4                | 31 | 75  | 110 |
| 0.20             | 4                | 31 | 75  | 110 |
| 0.25             | 1                | 15 | 38  | 70  |
| 0.30             | 1                | 15 | 38  | 70  |
| 0.35             | 1                | 10 | 24  | 47  |
| 0.40             | 1                | 10 | 24  | 47  |
| 0.45             | 1                | 6  | 12  | 18  |
| 0.50             | 1                | 6  | 12  | 18  |
| 0.60             | 1                | 6  | 12  | 18  |
| 0.70             | 1                | 6  | 12  | 18  |
| 0.80             | 1                | 6  | 12  | 18  |
| 0.90             | 1                | 6  | 12  | 18  |
| 1.00             | 0                | 0  | 0   | 0   |
| 1.10             | 0                | 0  | 0   | 0   |
| 1.20             | 0                | 0  | 0   | 0   |
| 1.30             | 0                | 0  | 0   | 0   |
| 1.40             | 0                | 0  | 0   | 0   |
| 1.50             | 0                | 0  | 0   | 0   |
| 1.60             | 0                | 0  | 0   | 0   |
| 1.70             | 0                | 0  | 0   | 0   |
| 1.80             | 0                | 0  | 0   | 0   |
| 1.90             | 0                | 0  | 0   | 0   |
| 2.00             | 0                | 0  | 0   | 0   |



NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 4   | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 4   | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 4   | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 15  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 16  | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.12 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00  | 0.52  |
| 0  | 4   | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12M<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 4   | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.40  |
| 0  | 4   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 22  | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 4   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.26<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.26  |
| 0  | 4   | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 4   | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.18 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.18  |

MONTH OF APRIL

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 14  
 TOTAL DAYS WITH PRECIPITATION - 7  
 TOTAL AMOUNT OF PRECIPITATION - 1.66 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.26 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.52 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 27 HOUR 9 - 0.26 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 20 HOUR 6 - 0.30 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 10 - 0.52 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 10 - 0.52 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 16 HOUR 10 - 0.52 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 14  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF APRIL

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |    |    |    | 18  | 24  |
|------------------|------------------|----|----|----|----|-----|-----|
|                  | 1                | 6  | 12 | 18 | 24 |     |     |
| 0.01             | 14               | 61 | 99 |    |    | 135 | 171 |
| 0.02             | 14               | 61 | 99 |    |    | 135 | 171 |
| 0.03             | 14               | 61 | 99 |    |    | 135 | 171 |
| 0.04             | 14               | 61 | 99 |    |    | 135 | 171 |
| 0.05             | 14               | 61 | 99 |    |    | 135 | 171 |
| 0.07             | 14               | 61 | 99 |    |    | 135 | 171 |
| 0.10             | 14               | 61 | 99 |    |    | 135 | 171 |
| 0.15             | 2                | 30 | 52 |    |    | 70  | 88  |
| 0.20             | 1                | 24 | 44 |    |    | 62  | 80  |
| 0.25             | 1                | 11 | 34 |    |    | 52  | 70  |
| 0.30             | 0                | 5  | 22 |    |    | 34  | 46  |
| 0.35             | 0                | 0  | 8  |    |    | 20  | 32  |
| 0.40             | 0                | 0  | 8  |    |    | 20  | 32  |
| 0.45             | 0                | 0  | 3  |    |    | 9   | 15  |
| 0.50             | 0                | 0  | 3  |    |    | 9   | 15  |
| 0.60             | 0                | 0  | 0  |    |    | 0   | 0   |
| 0.70             | 0                | 0  | 0  |    |    | 0   | 0   |
| 0.80             | 0                | 0  | 0  |    |    | 0   | 0   |
| 0.90             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.00             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.10             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.20             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.30             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.40             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.50             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.60             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.70             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.80             | 0                | 0  | 0  |    |    | 0   | 0   |
| 1.90             | 0                | 0  | 0  |    |    | 0   | 0   |
| 2.00             | 0                | 0  | 0  |    |    | 0   | 0   |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12M<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 5   | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 10  | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 5   | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 15  | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 5   | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 5   | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 5   | 31  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>9.99  | 0.00  |

MONTH OF MAY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744  
 NUMBER OF MISSING HOURS - 1  
 TOTAL HOURS OF PRECIPITATION - 2  
 TOTAL DAYS WITH PRECIPITATION - 2  
 TOTAL AMOUNT OF PRECIPITATION - 0.20 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.10 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 14 - 0.10 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 14 - 0.10 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 14 - 0.10 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 14 - 0.10 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 15 HOUR 14 - 0.10 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF MAY

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |    |    |
|------------------|------------------|----|----|----|
|                  | 1                | 6  | 12 | 18 |
| 0.01             | 2                | 12 | 24 | 36 |
| 0.02             | 2                | 12 | 24 | 36 |
| 0.03             | 2                | 12 | 24 | 36 |
| 0.04             | 2                | 12 | 24 | 36 |
| 0.05             | 2                | 12 | 24 | 36 |
| 0.07             | 2                | 12 | 24 | 36 |
| 0.10             | 2                | 12 | 24 | 36 |
| 0.15             | 0                | 0  | 0  | 0  |
| 0.20             | 0                | 0  | 0  | 0  |
| 0.25             | 0                | 0  | 0  | 0  |
| 0.30             | 0                | 0  | 0  | 0  |
| 0.35             | 0                | 0  | 0  | 0  |
| 0.40             | 0                | 0  | 0  | 0  |
| 0.45             | 0                | 0  | 0  | 0  |
| 0.50             | 0                | 0  | 0  | 0  |
| 0.60             | 0                | 0  | 0  | 0  |
| 0.70             | 0                | 0  | 0  | 0  |
| 0.80             | 0                | 0  | 0  | 0  |
| 0.90             | 0                | 0  | 0  | 0  |
| 1.00             | 0                | 0  | 0  | 0  |
| 1.10             | 0                | 0  | 0  | 0  |
| 1.20             | 0                | 0  | 0  | 0  |
| 1.30             | 0                | 0  | 0  | 0  |
| 1.40             | 0                | 0  | 0  | 0  |
| 1.50             | 0                | 0  | 0  | 0  |
| 1.60             | 0                | 0  | 0  | 0  |
| 1.70             | 0                | 0  | 0  | 0  |
| 1.80             | 0                | 0  | 0  | 0  |
| 1.90             | 0                | 0  | 0  | 0  |
| 2.00             | 0                | 0  | 0  | 0  |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN



NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 6   | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 6   | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 15  | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 6   | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 6   | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 6   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 6   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 6   | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 2000

RAIN VERSION # 2P

MONTH OF JUNE

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 4  
 TOTAL DAYS WITH PRECIPITATION - 4  
 TOTAL AMOUNT OF PRECIPITATION - 0.40 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.10 INCHES  
  
 1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 20 - 0.10 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 20 - 0.10 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 20 - 0.10 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 20 - 0.10 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 25 HOUR 20 - 0.10 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF JUNE

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |    |    |
|------------------|------------------|----|----|----|
|                  | 1                | 6  | 12 | 24 |
| 0.01             | 4                | 24 | 48 | 96 |
| 0.02             | 4                | 24 | 48 | 96 |
| 0.03             | 4                | 24 | 48 | 96 |
| 0.04             | 4                | 24 | 48 | 96 |
| 0.05             | 4                | 24 | 48 | 96 |
| 0.07             | 4                | 24 | 48 | 96 |
| 0.10             | 4                | 24 | 48 | 96 |
| 0.15             | 0                | 0  | 0  | 0  |
| 0.20             | 0                | 0  | 0  | 0  |
| 0.25             | 0                | 0  | 0  | 0  |
| 0.30             | 0                | 0  | 0  | 0  |
| 0.35             | 0                | 0  | 0  | 0  |
| 0.40             | 0                | 0  | 0  | 0  |
| 0.45             | 0                | 0  | 0  | 0  |
| 0.50             | 0                | 0  | 0  | 0  |
| 0.60             | 0                | 0  | 0  | 0  |
| 0.70             | 0                | 0  | 0  | 0  |
| 0.80             | 0                | 0  | 0  | 0  |
| 0.90             | 0                | 0  | 0  | 0  |
| 1.00             | 0                | 0  | 0  | 0  |
| 1.10             | 0                | 0  | 0  | 0  |
| 1.20             | 0                | 0  | 0  | 0  |
| 1.30             | 0                | 0  | 0  | 0  |
| 1.40             | 0                | 0  | 0  | 0  |
| 1.50             | 0                | 0  | 0  | 0  |
| 1.60             | 0                | 0  | 0  | 0  |
| 1.70             | 0                | 0  | 0  | 0  |
| 1.80             | 0                | 0  | 0  | 0  |
| 1.90             | 0                | 0  | 0  | 0  |
| 2.00             | 0                | 0  | 0  | 0  |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2184  
 NUMBER OF MISSING HOURS - 1  
 TOTAL HOURS OF PRECIPITATION - 20  
 TOTAL DAYS WITH PRECIPITATION - 13  
 TOTAL AMOUNT OF PRECIPITATION - 2.26 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.26 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.52 INCHES

|  |                      |       |   |     |    |      |    |   |      |        |
|--|----------------------|-------|---|-----|----|------|----|---|------|--------|
| 1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT  | PERCIPITATION STARTS | MONTH | 4 | DAY | 27 | HOUR | 9  | - | 0.26 | INCHES |
| 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT  | PERCIPITATION STARTS | MONTH | 4 | DAY | 20 | HOUR | 6  | - | 0.30 | INCHES |
| 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 4 | DAY | 16 | HOUR | 10 | - | 0.52 | INCHES |
| 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 4 | DAY | 16 | HOUR | 10 | - | 0.52 | INCHES |
| 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 4 | DAY | 16 | HOUR | 10 | - | 0.52 | INCHES |

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 14  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |     |     | 18  | 24 |
|------------------|------------------|----|-----|-----|-----|----|
|                  | 1                | 6  | 12  | 18  |     |    |
| 0.01             | 20               | 97 | 175 | 253 | 331 |    |
| 0.02             | 20               | 97 | 175 | 253 | 331 |    |
| 0.03             | 20               | 97 | 175 | 253 | 331 |    |
| 0.04             | 20               | 97 | 175 | 253 | 331 |    |
| 0.05             | 20               | 97 | 175 | 253 | 331 |    |
| 0.07             | 20               | 97 | 175 | 253 | 331 |    |
| 0.10             | 20               | 97 | 175 | 253 | 331 |    |
| 0.15             | 2                | 30 | 56  | 80  | 104 |    |
| 0.20             | 1                | 24 | 44  | 62  | 80  |    |
| 0.25             | 1                | 11 | 34  | 52  | 70  |    |
| 0.30             | 0                | 5  | 22  | 34  | 46  |    |
| 0.35             | 0                | 0  | 8   | 20  | 32  |    |
| 0.40             | 0                | 0  | 8   | 20  | 32  |    |
| 0.45             | 0                | 0  | 3   | 9   | 15  |    |
| 0.50             | 0                | 0  | 3   | 9   | 15  |    |
| 0.60             | 0                | 0  | 0   | 0   | 0   |    |
| 0.70             | 0                | 0  | 0   | 0   | 0   |    |
| 0.80             | 0                | 0  | 0   | 0   | 0   |    |
| 0.90             | 0                | 0  | 0   | 0   | 0   |    |
| 1.00             | 0                | 0  | 0   | 0   | 0   |    |
| 1.10             | 0                | 0  | 0   | 0   | 0   |    |
| 1.20             | 0                | 0  | 0   | 0   | 0   |    |
| 1.30             | 0                | 0  | 0   | 0   | 0   |    |
| 1.40             | 0                | 0  | 0   | 0   | 0   |    |
| 1.50             | 0                | 0  | 0   | 0   | 0   |    |
| 1.60             | 0                | 0  | 0   | 0   | 0   |    |
| 1.70             | 0                | 0  | 0   | 0   | 0   |    |
| 1.80             | 0                | 0  | 0   | 0   | 0   |    |
| 1.90             | 0                | 0  | 0   | 0   | 0   |    |
| 2.00             | 0                | 0  | 0   | 0   | 0   |    |

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4368  
 NUMBER OF MISSING HOURS - 1  
 TOTAL HOURS OF PRECIPITATION - 37  
 TOTAL DAYS WITH PRECIPITATION - 23  
 TOTAL AMOUNT OF PRECIPITATION - 5.09 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.90 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.90 INCHES

|  |                      |       |                    |             |
|--|----------------------|-------|--------------------|-------------|
| 1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT  | PERCIPITATION STARTS | MONTH | 3 DAY 12 HOUR 16 - | 0.90 INCHES |
| 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT  | PERCIPITATION STARTS | MONTH | 3 DAY 12 HOUR 16 - | 0.90 INCHES |
| 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 3 DAY 12 HOUR 16 - | 0.90 INCHES |
| 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 3 DAY 12 HOUR 16 - | 0.90 INCHES |
| 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 3 DAY 12 HOUR 16 - | 0.90 INCHES |

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 685  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |     |     |     |
|------------------|------------------|-----|-----|-----|
|                  | 1                | 6   | 12  | 18  |
| 0.01             | 37               | 179 | 314 | 440 |
| 0.02             | 37               | 179 | 314 | 440 |
| 0.03             | 37               | 179 | 314 | 440 |
| 0.04             | 37               | 179 | 314 | 440 |
| 0.05             | 37               | 179 | 314 | 440 |
| 0.07             | 37               | 179 | 314 | 440 |
| 0.10             | 37               | 179 | 314 | 440 |
| 0.15             | 6                | 61  | 131 | 190 |
| 0.20             | 5                | 55  | 119 | 172 |
| 0.25             | 2                | 26  | 72  | 122 |
| 0.30             | 1                | 20  | 60  | 104 |
| 0.35             | 1                | 10  | 32  | 67  |
| 0.40             | 1                | 10  | 32  | 67  |
| 0.45             | 1                | 6   | 15  | 27  |
| 0.50             | 1                | 6   | 15  | 27  |
| 0.60             | 1                | 6   | 12  | 18  |
| 0.70             | 1                | 6   | 12  | 18  |
| 0.80             | 1                | 6   | 12  | 18  |
| 0.90             | 1                | 6   | 12  | 18  |
| 1.00             | 0                | 0   | 0   | 0   |
| 1.10             | 0                | 0   | 0   | 0   |
| 1.20             | 0                | 0   | 0   | 0   |
| 1.30             | 0                | 0   | 0   | 0   |
| 1.40             | 0                | 0   | 0   | 0   |
| 1.50             | 0                | 0   | 0   | 0   |
| 1.60             | 0                | 0   | 0   | 0   |
| 1.70             | 0                | 0   | 0   | 0   |
| 1.80             | 0                | 0   | 0   | 0   |
| 1.90             | 0                | 0   | 0   | 0   |
| 2.00             | 0                | 0   | 0   | 0   |



NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 2000 RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 7   | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 15  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 7   | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 7   | 31  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

FOR ALL TEMPERATURES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 744  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 24 - 0.00 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 19 - 0.00 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 13 - 0.00 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 7 - 0.00 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 31 HOUR 1 - 0.00 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

1 6 12 18 24

| AMOUNT INCHES | 1 | 6 | 12 | 18 | 24 |
|---------------|---|---|----|----|----|
| 0.01          | 0 | 0 | 0  | 0  | 0  |
| 0.02          | 0 | 0 | 0  | 0  | 0  |
| 0.03          | 0 | 0 | 0  | 0  | 0  |
| 0.04          | 0 | 0 | 0  | 0  | 0  |
| 0.05          | 0 | 0 | 0  | 0  | 0  |
| 0.07          | 0 | 0 | 0  | 0  | 0  |
| 0.10          | 0 | 0 | 0  | 0  | 0  |
| 0.15          | 0 | 0 | 0  | 0  | 0  |
| 0.20          | 0 | 0 | 0  | 0  | 0  |
| 0.25          | 0 | 0 | 0  | 0  | 0  |
| 0.30          | 0 | 0 | 0  | 0  | 0  |
| 0.35          | 0 | 0 | 0  | 0  | 0  |
| 0.40          | 0 | 0 | 0  | 0  | 0  |
| 0.45          | 0 | 0 | 0  | 0  | 0  |
| 0.50          | 0 | 0 | 0  | 0  | 0  |
| 0.60          | 0 | 0 | 0  | 0  | 0  |
| 0.70          | 0 | 0 | 0  | 0  | 0  |
| 0.80          | 0 | 0 | 0  | 0  | 0  |
| 0.90          | 0 | 0 | 0  | 0  | 0  |
| 1.00          | 0 | 0 | 0  | 0  | 0  |
| 1.10          | 0 | 0 | 0  | 0  | 0  |
| 1.20          | 0 | 0 | 0  | 0  | 0  |
| 1.30          | 0 | 0 | 0  | 0  | 0  |
| 1.40          | 0 | 0 | 0  | 0  | 0  |
| 1.50          | 0 | 0 | 0  | 0  | 0  |
| 1.60          | 0 | 0 | 0  | 0  | 0  |
| 1.70          | 0 | 0 | 0  | 0  | 0  |
| 1.80          | 0 | 0 | 0  | 0  | 0  |
| 1.90          | 0 | 0 | 0  | 0  | 0  |
| 2.00          | 0 | 0 | 0  | 0  | 0  |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 8   | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 15  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 17  | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 8   | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 19  | 0.00<br>0.20 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.20<br>0.00 | 0.20<br>0.00 | 0.20<br>0.10 | 0.30<br>0.00 | 0.50<br>0.00  | 1.90  |
| 0  | 8   | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.80 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.90  |
| 0  | 8   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.40 | 0.00<br>0.20  | 0.60  |
| 0  | 8   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 8   | 31  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

MONTH OF AUGUST

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 14  
 TOTAL DAYS WITH PRECIPITATION - 4  
 TOTAL AMOUNT OF PRECIPITATION - 3.50 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.80 INCHES  
 MAXIMUM DAILY PRECIPITATION - 1.90 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 16 - 0.80 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 8 - 1.60 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 6 - 1.80 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 6 - 1.90 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 6 - 1.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF AUGUST

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |    |    |
|------------------|------------------|----|----|----|
|                  | 1                | 6  | 12 | 24 |
| 0.01             | 14               | 44 | 74 | 98 |
| 0.02             | 14               | 44 | 74 | 98 |
| 0.03             | 14               | 44 | 74 | 98 |
| 0.04             | 14               | 44 | 74 | 98 |
| 0.05             | 14               | 44 | 74 | 98 |
| 0.07             | 14               | 44 | 74 | 98 |
| 0.10             | 14               | 44 | 74 | 98 |
| 0.15             | 9                | 25 | 43 | 61 |
| 0.20             | 9                | 25 | 43 | 61 |
| 0.25             | 4                | 22 | 41 | 59 |
| 0.30             | 4                | 22 | 41 | 59 |
| 0.35             | 3                | 22 | 40 | 58 |
| 0.40             | 3                | 22 | 40 | 58 |
| 0.45             | 2                | 20 | 38 | 56 |
| 0.50             | 2                | 20 | 38 | 56 |
| 0.60             | 1                | 20 | 38 | 56 |
| 0.70             | 1                | 14 | 26 | 38 |
| 0.80             | 1                | 13 | 26 | 38 |
| 0.90             | 0                | 6  | 15 | 27 |
| 1.00             | 0                | 6  | 12 | 18 |
| 1.10             | 0                | 5  | 12 | 18 |
| 1.20             | 0                | 4  | 10 | 16 |
| 1.30             | 0                | 3  | 9  | 16 |
| 1.40             | 0                | 3  | 9  | 15 |
| 1.50             | 0                | 2  | 8  | 15 |
| 1.60             | 0                | 1  | 8  | 14 |
| 1.70             | 0                | 0  | 6  | 13 |
| 1.80             | 0                | 0  | 5  | 12 |
| 1.90             | 0                | 0  | 0  | 2  |
| 2.00             | 0                | 0  | 0  | 0  |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN



NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 2000 RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12M<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 9   | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 9   | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 9   | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 15  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 9   | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 9   | 20  | 0.10<br>0.00 | 0.10<br>0.00 | 0.10<br>0.00 | 0.20<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.70  |
| 0  | 9   | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 9   | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.20<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00  | 0.40  |
| 0  | 9   | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.20  |
| 0  | 9   | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 9   | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

MONTH OF SEPTEMR

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 15  
 TOTAL DAYS WITH PRECIPITATION - 7  
 TOTAL AMOUNT OF PRECIPITATION - 1.70 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.20 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.70 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 23 HOUR 4 - 0.20 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 20 HOUR 2 - 0.60 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 20 HOUR 1 - 0.70 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 15 - 0.80 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 19 HOUR 15 - 0.80 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF SEPTEMBER

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |     |     |
|------------------|------------------|----|-----|-----|
|                  | 1                | 6  | 12  | 24  |
| 0.01             | 15               | 59 | 100 | 172 |
| 0.02             | 15               | 59 | 100 | 172 |
| 0.03             | 15               | 59 | 100 | 172 |
| 0.04             | 15               | 59 | 100 | 172 |
| 0.05             | 15               | 59 | 100 | 172 |
| 0.07             | 15               | 59 | 100 | 172 |
| 0.10             | 15               | 59 | 100 | 172 |
| 0.15             | 2                | 17 | 37  | 73  |
| 0.20             | 2                | 17 | 37  | 73  |
| 0.25             | 0                | 12 | 25  | 49  |
| 0.30             | 0                | 12 | 25  | 49  |
| 0.35             | 0                | 6  | 16  | 29  |
| 0.40             | 0                | 6  | 16  | 29  |
| 0.45             | 0                | 5  | 11  | 23  |
| 0.50             | 0                | 5  | 11  | 23  |
| 0.60             | 0                | 3  | 9   | 22  |
| 0.70             | 0                | 0  | 6   | 20  |
| 0.80             | 0                | 0  | 0   | 8   |
| 0.90             | 0                | 0  | 0   | 0   |
| 1.00             | 0                | 0  | 0   | 0   |
| 1.10             | 0                | 0  | 0   | 0   |
| 1.20             | 0                | 0  | 0   | 0   |
| 1.30             | 0                | 0  | 0   | 0   |
| 1.40             | 0                | 0  | 0   | 0   |
| 1.50             | 0                | 0  | 0   | 0   |
| 1.60             | 0                | 0  | 0   | 0   |
| 1.70             | 0                | 0  | 0   | 0   |
| 1.80             | 0                | 0  | 0   | 0   |
| 1.90             | 0                | 0  | 0   | 0   |
| 2.00             | 0                | 0  | 0   | 0   |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JUL-SEP 2000

RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 29  
 TOTAL DAYS WITH PRECIPITATION - 11  
 TOTAL AMOUNT OF PRECIPITATION - 5.20 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.80 INCHES  
 MAXIMUM DAILY PRECIPITATION - 1.90 INCHES

|  |                      |       |   |     |    |      |    |   |      |        |
|--|----------------------|-------|---|-----|----|------|----|---|------|--------|
| 1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT  | PERCIPITATION STARTS | MONTH | 8 | DAY | 22 | HOUR | 16 | - | 0.80 | INCHES |
| 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT  | PERCIPITATION STARTS | MONTH | 8 | DAY | 19 | HOUR | 8  | - | 1.60 | INCHES |
| 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 8 | DAY | 19 | HOUR | 6  | - | 1.80 | INCHES |
| 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 8 | DAY | 19 | HOUR | 6  | - | 1.90 | INCHES |
| 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS | MONTH | 8 | DAY | 19 | HOUR | 6  | - | 1.90 | INCHES |

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |     |     |     |
|------------------|------------------|-----|-----|-----|
|                  | 1                | 6   | 12  | 24  |
| 0.01             | 29               | 103 | 174 | 234 |
| 0.02             | 29               | 103 | 174 | 234 |
| 0.03             | 29               | 103 | 174 | 234 |
| 0.04             | 29               | 103 | 174 | 234 |
| 0.05             | 29               | 103 | 174 | 234 |
| 0.07             | 29               | 103 | 174 | 234 |
| 0.10             | 29               | 103 | 174 | 234 |
| 0.15             | 11               | 42  | 80  | 116 |
| 0.20             | 11               | 42  | 80  | 116 |
| 0.25             | 4                | 34  | 66  | 96  |
| 0.30             | 4                | 34  | 66  | 96  |
| 0.35             | 3                | 28  | 56  | 87  |
| 0.40             | 3                | 28  | 56  | 87  |
| 0.45             | 2                | 25  | 49  | 73  |
| 0.50             | 2                | 25  | 49  | 73  |
| 0.60             | 1                | 23  | 47  | 72  |
| 0.70             | 1                | 14  | 32  | 52  |
| 0.80             | 1                | 13  | 26  | 40  |
| 0.90             | 0                | 6   | 15  | 27  |
| 1.00             | 0                | 6   | 12  | 18  |
| 1.10             | 0                | 5   | 12  | 18  |
| 1.20             | 0                | 4   | 10  | 16  |
| 1.30             | 0                | 3   | 9   | 16  |
| 1.40             | 0                | 3   | 9   | 15  |
| 1.50             | 0                | 2   | 8   | 15  |
| 1.60             | 0                | 1   | 8   | 14  |
| 1.70             | 0                | 0   | 6   | 13  |
| 1.80             | 0                | 0   | 5   | 12  |
| 1.90             | 0                | 0   | 0   | 2   |
| 2.00             | 0                | 0   | 0   | 0   |

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 10  | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 5   | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.10<br>0.00 | 0.20<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.60  |
| 0  | 10  | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.20 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.20  |
| 0  | 10  | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.40 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.50  |
| 0  | 10  | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10  | 0.10  |
| 0  | 10  | 15  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12M<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 10  | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.20  |
| 0  | 10  | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 10  | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 28  | 0.00<br>0.00 | 9.99<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.10  |
| 0  | 10  | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 10  | 31  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |



MONTH OF OCTOBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744  
 NUMBER OF MISSING HOURS - 1  
 TOTAL HOURS OF PRECIPITATION - 13  
 TOTAL DAYS WITH PRECIPITATION - 7  
 TOTAL AMOUNT OF PRECIPITATION - 1.80 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.60 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 13 HOUR 20 - 0.40 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 13 HOUR 20 - 0.50 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 5 HOUR 2 - 0.60 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 5 HOUR 2 - 0.60 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 5 HOUR 2 - 0.60 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 30  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

AMOUNT INCHES

| AMOUNT INCHES | PRECIPITATION INTENSITY - DURATION<br>(NUMBER OF OCCURRENCES) |    |    |     |
|---------------|---|----|----|-----|
|               | 1   | 6  | 12 | 24  |
| 0.01          | 13  | 52 | 94 | 178 |
| 0.02          | 13  | 52 | 94 | 178 |
| 0.03          | 13  | 52 | 94 | 178 |
| 0.04          | 13  | 52 | 94 | 178 |
| 0.05          | 13  | 52 | 94 | 178 |
| 0.07          | 13  | 52 | 94 | 178 |
| 0.10          | 13  | 52 | 94 | 178 |
| 0.15          | 3   | 23 | 47 | 95  |
| 0.20          | 3   | 23 | 47 | 95  |
| 0.25          | 1   | 13 | 25 | 49  |
| 0.30          | 1   | 13 | 25 | 49  |
| 0.35          | 1   | 11 | 23 | 47  |
| 0.40          | 1   | 11 | 23 | 47  |
| 0.45          | 0   | 9  | 21 | 45  |
| 0.50          | 0   | 9  | 21 | 45  |
| 0.60          | 0   | 0  | 6  | 18  |
| 0.70          | 0   | 0  | 0  | 0   |
| 0.80          | 0   | 0  | 0  | 0   |
| 0.90          | 0   | 0  | 0  | 0   |
| 1.00          | 0   | 0  | 0  | 0   |
| 1.10          | 0   | 0  | 0  | 0   |
| 1.20          | 0   | 0  | 0  | 0   |
| 1.30          | 0   | 0  | 0  | 0   |
| 1.40          | 0   | 0  | 0  | 0   |
| 1.50          | 0   | 0  | 0  | 0   |
| 1.60          | 0   | 0  | 0  | 0   |
| 1.70          | 0   | 0  | 0  | 0   |
| 1.80          | 0   | 0  | 0  | 0   |
| 1.90          | 0   | 0  | 0  | 0   |
| 2.00          | 0   | 0  | 0  | 0   |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 11  | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.20<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.30  |
| 0  | 11  | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.30<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.10 | 0.10<br>0.00 | 0.10<br>0.00 | 0.20<br>0.00 | 0.00<br>0.00  | 0.90  |
| 0  | 11  | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 13  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 15  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 11  | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 11  | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 2000

RAIN VERSION # 2P

MONTH OF NOVEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 8  
 TOTAL DAYS WITH PRECIPITATION - 2  
 TOTAL AMOUNT OF PRECIPITATION - 1.20 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.90 INCHES

|   |        |     |             |
|---|--------|-----|-------------|
| 1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY  | 6 HOUR | 5 - | 0.30 INCHES |
| 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY  | 6 HOUR | 5 - | 0.60 INCHES |
| 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY | 6 HOUR | 5 - | 0.80 INCHES |
| 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY | 6 HOUR | 5 - | 0.90 INCHES |
| 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY | 6 HOUR | 5 - | 0.90 INCHES |

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 368  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 0  
 TOTAL DAYS WITH PRECIPITATION - 0  
 TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

MONTH OF NOVEMBER

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |    |    |    |
|------------------|------------------|----|----|----|----|
|                  | 1                | 6  | 12 | 18 | 24 |
| 0.01             | 8                | 27 | 36 | 42 | 48 |
| 0.02             | 8                | 27 | 36 | 42 | 48 |
| 0.03             | 8                | 27 | 36 | 42 | 48 |
| 0.04             | 8                | 27 | 36 | 42 | 48 |
| 0.05             | 8                | 27 | 36 | 42 | 48 |
| 0.07             | 8                | 27 | 36 | 42 | 48 |
| 0.10             | 8                | 27 | 36 | 42 | 48 |
| 0.15             | 3                | 16 | 22 | 28 | 34 |
| 0.20             | 3                | 16 | 22 | 28 | 34 |
| 0.25             | 1                | 12 | 22 | 28 | 34 |
| 0.30             | 1                | 12 | 22 | 28 | 34 |
| 0.35             | 0                | 7  | 14 | 20 | 26 |
| 0.40             | 0                | 7  | 14 | 20 | 26 |
| 0.45             | 0                | 5  | 12 | 18 | 24 |
| 0.50             | 0                | 1  | 7  | 12 | 18 |
| 0.60             | 0                | 0  | 6  | 12 | 18 |
| 0.70             | 0                | 0  | 6  | 12 | 18 |
| 0.80             | 0                | 0  | 6  | 12 | 18 |
| 0.90             | 0                | 0  | 0  | 3  | 9  |
| 1.00             | 0                | 0  | 0  | 0  | 0  |
| 1.10             | 0                | 0  | 0  | 0  | 0  |
| 1.20             | 0                | 0  | 0  | 0  | 0  |
| 1.30             | 0                | 0  | 0  | 0  | 0  |
| 1.40             | 0                | 0  | 0  | 0  | 0  |
| 1.50             | 0                | 0  | 0  | 0  | 0  |
| 1.60             | 0                | 0  | 0  | 0  | 0  |
| 1.70             | 0                | 0  | 0  | 0  | 0  |
| 1.80             | 0                | 0  | 0  | 0  | 0  |
| 1.90             | 0                | 0  | 0  | 0  | 0  |
| 2.00             | 0                | 0  | 0  | 0  | 0  |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 2000

RAIN VERSION # 2P

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12N<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 12  | 1   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 2   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 3   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 4   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 5   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 6   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 7   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 8   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 9   | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 10  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 11  | 0.00<br>0.00 | 0.00<br>0.00 | 0.10<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.30  |
| 0  | 12  | 12  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 13  | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.10 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.30  |
| 0  | 12  | 14  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 15  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 16  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 17  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |

RAIN VERSION # 2P

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 2000

| YR | MON | DAY | 1AM<br>1PM   | 2AM<br>2PM   | 3AM<br>3PM   | 4AM<br>4PM   | 5AM<br>5PM   | 6AM<br>6PM   | 7AM<br>7PM   | 8AM<br>8PM   | 9AM<br>9PM   | 10AM<br>10PM | 11AM<br>11PM | 12M<br>12MDNT | TOTAL |
|----|-----|-----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-------|
| 0  | 12  | 18  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 19  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 20  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 21  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 22  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 23  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 24  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 25  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 26  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 27  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 28  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 29  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 30  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |
| 0  | 12  | 31  | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00 | 0.00<br>0.00  | 0.00  |



NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR OCT-DEC 2000

MONTH OF DECEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 6  
 TOTAL DAYS WITH PRECIPITATION - 2  
 TOTAL AMOUNT OF PRECIPITATION - 0.60 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.30 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 13 HOUR 20 - 0.10 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 11 HOUR 3 - 0.30 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 13 HOUR 14 - 0.30 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 13 HOUR 14 - 0.30 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 13 HOUR 14 - 0.30 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 632  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 6  
 TOTAL DAYS WITH PRECIPITATION - 2  
 TOTAL AMOUNT OF PRECIPITATION - 0.60 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.30 INCHES

MONTH OF DECEMBER

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |    |    |    |
|------------------|------------------|----|----|----|
|                  | 1                | 6  | 12 | 18 |
| 0.01             | 6                | 23 | 35 | 47 |
| 0.02             | 6                | 23 | 35 | 47 |
| 0.03             | 6                | 23 | 35 | 47 |
| 0.04             | 6                | 23 | 35 | 47 |
| 0.05             | 6                | 23 | 35 | 47 |
| 0.07             | 6                | 23 | 35 | 47 |
| 0.10             | 6                | 23 | 35 | 47 |
| 0.15             | 0                | 12 | 24 | 36 |
| 0.20             | 0                | 12 | 24 | 36 |
| 0.25             | 0                | 1  | 13 | 25 |
| 0.30             | 0                | 1  | 13 | 25 |
| 0.35             | 0                | 0  | 0  | 0  |
| 0.40             | 0                | 0  | 0  | 0  |
| 0.45             | 0                | 0  | 0  | 0  |
| 0.50             | 0                | 0  | 0  | 0  |
| 0.60             | 0                | 0  | 0  | 0  |
| 0.70             | 0                | 0  | 0  | 0  |
| 0.80             | 0                | 0  | 0  | 0  |
| 0.90             | 0                | 0  | 0  | 0  |
| 1.00             | 0                | 0  | 0  | 0  |
| 1.10             | 0                | 0  | 0  | 0  |
| 1.20             | 0                | 0  | 0  | 0  |
| 1.30             | 0                | 0  | 0  | 0  |
| 1.40             | 0                | 0  | 0  | 0  |
| 1.50             | 0                | 0  | 0  | 0  |
| 1.60             | 0                | 0  | 0  | 0  |
| 1.70             | 0                | 0  | 0  | 0  |
| 1.80             | 0                | 0  | 0  | 0  |
| 1.90             | 0                | 0  | 0  | 0  |
| 2.00             | 0                | 0  | 0  | 0  |

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208  
 NUMBER OF MISSING HOURS - 1  
 TOTAL HOURS OF PRECIPITATION - 27  
 TOTAL DAYS WITH PRECIPITATION - 11  
 TOTAL AMOUNT OF PRECIPITATION - 3.60 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.40 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.90 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 13 HOUR 20 - 0.40 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 11 DAY 6 HOUR 5 - 0.60 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 11 DAY 6 HOUR 5 - 0.80 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 11 DAY 6 HOUR 5 - 0.90 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 11 DAY 6 HOUR 5 - 0.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1030  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 6  
 TOTAL DAYS WITH PRECIPITATION - 2  
 TOTAL AMOUNT OF PRECIPITATION - 0.60 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.30 INCHES

| AMOUNT<br>INCHES | PRECIPITATION INTENSITY - DURATION<br>(NUMBER OF OCCURRENCES) |     |     |     |
|------------------|---|-----|-----|-----|
|                  | 1   | 6   | 12  | 24  |
| 0.01             | 27  | 104 | 173 | 305 |
| 0.02             | 27  | 104 | 173 | 305 |
| 0.03             | 27  | 104 | 173 | 305 |
| 0.04             | 27  | 104 | 173 | 305 |
| 0.05             | 27  | 104 | 173 | 305 |
| 0.07             | 27  | 104 | 173 | 305 |
| 0.10             | 27  | 104 | 173 | 305 |
| 0.15             | 6   | 53  | 101 | 197 |
| 0.20             | 6   | 53  | 101 | 197 |
| 0.25             | 2   | 26  | 63  | 135 |
| 0.30             | 2   | 26  | 63  | 135 |
| 0.35             | 1   | 18  | 37  | 73  |
| 0.40             | 1   | 18  | 37  | 73  |
| 0.45             | 0   | 14  | 33  | 69  |
| 0.50             | 0   | 14  | 33  | 69  |
| 0.60             | 0   | 1   | 13  | 40  |
| 0.70             | 0   | 0   | 6   | 18  |
| 0.80             | 0   | 0   | 6   | 18  |
| 0.90             | 0   | 0   | 0   | 9   |
| 1.00             | 0   | 0   | 0   | 0   |
| 1.10             | 0   | 0   | 0   | 0   |
| 1.20             | 0   | 0   | 0   | 0   |
| 1.30             | 0   | 0   | 0   | 0   |
| 1.40             | 0   | 0   | 0   | 0   |
| 1.50             | 0   | 0   | 0   | 0   |
| 1.60             | 0   | 0   | 0   | 0   |
| 1.70             | 0   | 0   | 0   | 0   |
| 1.80             | 0   | 0   | 0   | 0   |
| 1.90             | 0   | 0   | 0   | 0   |
| 2.00             | 0   | 0   | 0   | 0   |

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4416  
 NUMBER OF MISSING HOURS - 1  
 TOTAL HOURS OF PRECIPITATION - 56  
 TOTAL DAYS WITH PRECIPITATION - 22  
 TOTAL AMOUNT OF PRECIPITATION - 8.80 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.80 INCHES  
 MAXIMUM DAILY PRECIPITATION - 1.90 INCHES

| 1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT  | PERCIPITATION STARTS MONTH | 8 DAY 22 HOUR 16 - | 0.80 INCHES |
|--|----------------------------|--------------------|-------------|
| 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT  | PERCIPITATION STARTS MONTH | 8 DAY 19 HOUR 8 -  | 1.60 INCHES |
| 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS MONTH | 8 DAY 19 HOUR 6 -  | 1.80 INCHES |
| 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS MONTH | 8 DAY 19 HOUR 6 -  | 1.90 INCHES |
| 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT | PERCIPITATION STARTS MONTH | 8 DAY 19 HOUR 6 -  | 1.90 INCHES |

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1030  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 6  
 TOTAL DAYS WITH PRECIPITATION - 2  
 TOTAL AMOUNT OF PRECIPITATION - 0.60 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.30 INCHES

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |     |     |     |
|------------------|------------------|-----|-----|-----|
|                  | 1                | 6   | 12  | 18  |
| 0.01             | 56               | 207 | 347 | 473 |
| 0.02             | 56               | 207 | 347 | 473 |
| 0.03             | 56               | 207 | 347 | 473 |
| 0.04             | 56               | 207 | 347 | 473 |
| 0.05             | 56               | 207 | 347 | 473 |
| 0.07             | 56               | 207 | 347 | 473 |
| 0.10             | 56               | 207 | 347 | 473 |
| 0.15             | 17               | 95  | 181 | 265 |
| 0.20             | 17               | 95  | 181 | 265 |
| 0.25             | 6                | 60  | 129 | 195 |
| 0.30             | 6                | 60  | 129 | 195 |
| 0.35             | 4                | 46  | 93  | 142 |
| 0.40             | 4                | 46  | 93  | 142 |
| 0.45             | 2                | 39  | 82  | 124 |
| 0.50             | 2                | 39  | 82  | 124 |
| 0.60             | 1                | 24  | 60  | 100 |
| 0.70             | 1                | 14  | 38  | 64  |
| 0.80             | 1                | 13  | 32  | 52  |
| 0.90             | 0                | 6   | 15  | 30  |
| 1.00             | 0                | 6   | 12  | 18  |
| 1.10             | 0                | 5   | 12  | 18  |
| 1.20             | 0                | 4   | 10  | 16  |
| 1.30             | 0                | 3   | 9   | 16  |
| 1.40             | 0                | 3   | 9   | 15  |
| 1.50             | 0                | 2   | 8   | 15  |
| 1.60             | 0                | 1   | 8   | 14  |
| 1.70             | 0                | 0   | 6   | 13  |
| 1.80             | 0                | 0   | 5   | 12  |
| 1.90             | 0                | 0   | 0   | 2   |
| 2.00             | 0                | 0   | 0   | 0   |

ANNUAL INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 8784  
 NUMBER OF MISSING HOURS - 2  
 TOTAL HOURS OF PRECIPITATION - 93  
 TOTAL DAYS WITH PRECIPITATION - 45  
 TOTAL AMOUNT OF PRECIPITATION - 13.89 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.90 INCHES  
 MAXIMUM DAILY PRECIPITATION - 1.90 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 12 HOUR 16 - 0.90 INCHES  
 6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 19 HOUR 8 - 1.60 INCHES  
 12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 19 HOUR 6 - 1.80 INCHES  
 18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 19 HOUR 6 - 1.90 INCHES  
 24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 8 DAY 19 HOUR 6 - 1.90 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1715  
 NUMBER OF MISSING HOURS - 0  
 TOTAL HOURS OF PRECIPITATION - 6  
 TOTAL DAYS WITH PRECIPITATION - 2  
 TOTAL AMOUNT OF PRECIPITATION - 0.60 INCHES  
 MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES  
 MAXIMUM DAILY PRECIPITATION - 0.30 INCHES

ANNUAL INDEX

PRECIPITATION INTENSITY - DURATION  
(NUMBER OF OCCURRENCES)

| AMOUNT<br>INCHES | DURATION (HOURS) |     |     |     |
|------------------|------------------|-----|-----|-----|
|                  | 1                | 6   | 12  | 18  |
| 0.01             | 93               | 386 | 661 | 913 |
| 0.02             | 93               | 386 | 661 | 913 |
| 0.03             | 93               | 386 | 661 | 913 |
| 0.04             | 93               | 386 | 661 | 913 |
| 0.05             | 93               | 386 | 661 | 913 |
| 0.07             | 93               | 386 | 661 | 913 |
| 0.10             | 93               | 386 | 661 | 913 |
| 0.15             | 23               | 156 | 312 | 455 |
| 0.20             | 22               | 150 | 300 | 437 |
| 0.25             | 8                | 86  | 201 | 317 |
| 0.30             | 7                | 80  | 189 | 299 |
| 0.35             | 5                | 56  | 125 | 209 |
| 0.40             | 5                | 56  | 125 | 209 |
| 0.45             | 3                | 45  | 97  | 151 |
| 0.50             | 3                | 45  | 97  | 151 |
| 0.60             | 2                | 30  | 72  | 118 |
| 0.70             | 2                | 20  | 50  | 82  |
| 0.80             | 2                | 19  | 44  | 70  |
| 0.90             | 1                | 12  | 27  | 48  |
| 1.00             | 0                | 6   | 12  | 18  |
| 1.10             | 0                | 5   | 12  | 18  |
| 1.20             | 0                | 4   | 10  | 16  |
| 1.30             | 0                | 3   | 9   | 16  |
| 1.40             | 0                | 3   | 9   | 15  |
| 1.50             | 0                | 2   | 8   | 15  |
| 1.60             | 0                | 1   | 8   | 14  |
| 1.70             | 0                | 0   | 6   | 13  |
| 1.80             | 0                | 0   | 5   | 12  |
| 1.90             | 0                | 0   | 0   | 2   |
| 2.00             | 0                | 0   | 0   | 0   |



## **JOINT FREQUENCY DISTRIBUTION TABLES**

The tables presented in this section are results obtained from processing of the hourly meteorological data collected at the Cooper Nuclear Station. The joint frequency distribution (JFD) tables represent the frequency of occurrence, in number of observations, that a particular wind speed, wind direction, and stability category occurred simultaneously. On a quarterly and semiannual basis, the JFDs were produced for wind speed and wind direction by atmospheric stability corresponding to the seven Pasquill stability classes, and for wind speed and wind direction for all stability categories combined. Atmospheric stability was classified per Regulatory Guide 1.23, using the 100-meter to 10-meter temperature difference ( $\Delta T$ ) for the 100-meter JFDs and the 60-meter to 10-meter  $\Delta T$  for the 10-meter JFDs.

**JFDs of 10-Meter Wind vs. Delta T**

January-March 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNN | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     |       |
| 1.01- 3.50  | 0  | 1   | 0  | 1   | 0 | 0   | 1  | 0   | 0  | 0   | 0  | 0   | 1 | 0   | 1  | 1   | 6     |
| 3.51- 7.50  | 1  | 4   | 2  | 4   | 4 | 4   | 0  | 2   | 0  | 1   | 0  | 0   | 0 | 1   | 0  | 0   | 23    |
| 7.51-12.50  | 7  | 1   | 0  | 0   | 1 | 2   | 2  | 1   | 1  | 1   | 0  | 0   | 0 | 0   | 0  | 0   | 16    |
| 12.51-18.50 | 7  | 0   | 0  | 0   | 0 | 2   | 1  | 1   | 4  | 0   | 1  | 0   | 0 | 1   | 0  | 2   | 19    |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 10 | 1   | 0  | 0   | 1 | 0   | 0  | 2   | 16    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 2  | 0   | 0  | 0   | 1 | 0   | 0  | 2   | 7     |
| TOTAL       | 15 | 6   | 2  | 5   | 5 | 8   | 4  | 8   | 17 | 3   | 1  | 0   | 3 | 2   | 1  | 7   | 87    |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNN | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |   |     |    |     |   |     |    |     |       |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 3   | 3  | 2   | 1 | 1   | 1  | 0   | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 12    |
| 7.51-12.50  | 6 | 2   | 0  | 0   | 1 | 2   | 1  | 1   | 1 | 1   | 0  | 0   | 0 | 0   | 2  | 2   | 19    |
| 12.51-18.50 | 1 | 0   | 0  | 0   | 0 | 1   | 3  | 1   | 2 | 3   | 1  | 0   | 1 | 0   | 1  | 6   | 20    |
| 18.51-24.00 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 2 | 9   | 0  | 0   | 0 | 1   | 2  | 11  | 25    |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 3 | 1   | 0  | 0   | 0 | 0   | 0  | 0   | 4     |
| TOTAL       | 7 | 5   | 3  | 2   | 2 | 4   | 5  | 2   | 9 | 14  | 1  | 0   | 1 | 1   | 5  | 19  | 80    |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | MNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 1  | 0   | 1  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 1   | 0  | 0   | 3     |
| 3.51- 7.50  | 3  | 3   | 0  | 0   | 2 | 0   | 3  | 1   | 1  | 1   | 0  | 2   | 0 | 0   | 0  | 1   | 17    |
| 7.51-12.50  | 10 | 2   | 0  | 2   | 2 | 3   | 2  | 1   | 4  | 3   | 1  | 6   | 0 | 3   | 2  | 7   | 48    |
| 12.51-18.50 | 1  | 0   | 0  | 0   | 0 | 3   | 1  | 2   | 4  | 11  | 3  | 4   | 1 | 2   | 2  | 3   | 37    |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 2  | 7   | 1  | 1   | 0 | 5   | 1  | 3   | 21    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 5  | 2   | 0  | 0   | 0 | 4   | 4  | 2   | 17    |
| TOTAL       | 15 | 5   | 1  | 2   | 4 | 6   | 6  | 5   | 16 | 24  | 5  | 13  | 1 | 15  | 9  | 16  | 143   |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S  | SSW | SW | WSW | W  | MNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| CALM        |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     | 0     |
| 1.01- 3.50  | 5  | 2   | 2  | 0   | 0  | 0   | 0  | 0   | 2  | 1   | 0  | 0   | 1  | 0   | 0  | 0   | 13    |
| 3.51- 7.50  | 18 | 18  | 10 | 11  | 6  | 9   | 7  | 6   | 2  | 3   | 1  | 4   | 1  | 6   | 6  | 10  | 118   |
| 7.51-12.50  | 21 | 12  | 9  | 17  | 33 | 26  | 21 | 10  | 8  | 10  | 9  | 6   | 2  | 9   | 25 | 14  | 232   |
| 12.51-18.50 | 32 | 1   | 3  | 4   | 3  | 9   | 13 | 11  | 13 | 26  | 11 | 9   | 6  | 8   | 24 | 25  | 198   |
| 18.51-24.00 | 8  | 1   | 0  | 0   | 0  | 0   | 1  | 2   | 5  | 7   | 1  | 8   | 3  | 4   | 12 | 13  | 65    |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 1   | 11 | 5   | 2  | 2   | 3  | 9   | 24 | 23  | 80    |
| TOTAL       | 84 | 34  | 24 | 32  | 42 | 44  | 42 | 30  | 41 | 52  | 24 | 29  | 16 | 36  | 91 | 85  | 706   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |    |      |    |     | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 1  | 0    | 0  | 3   | 4     |
| 3.51- 7.50  | 17 | 5   | 7  | 2   | 1 | 2   | 3  | 11  | 7  | 4   | 2  | 2   | 0  | 3    | 2  | 11  | 79    |
| 7.51-12.50  | 18 | 4   | 0  | 3   | 6 | 6   | 12 | 24  | 23 | 9   | 4  | 2   | 2  | 4    | 3  | 22  | 142   |
| 12.51-18.50 | 8  | 0   | 0  | 0   | 0 | 4   | 13 | 25  | 26 | 18  | 5  | 2   | 5  | 3    | 3  | 7   | 119   |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0 | 0   | 7  | 20  | 10 | 5   | 2  | 8   | 3  | 7    | 7  | 2   | 72    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 3  | 10  | 2  | 6   | 0  | 3   | 2  | 4    | 16 | 2   | 48    |
| TOTAL       | 44 | 9   | 7  | 5   | 7 | 12  | 38 | 90  | 68 | 42  | 13 | 17  | 13 | 21   | 31 | 47  | 464   |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|------|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |      |    |     | 0     |
| 1.01- 3.50  | 3  | 0   | 0  | 1   | 0 | 1   | 0  | 1   | 5  | 2   | 1  | 4   | 0 | 0    | 1  | 5   | 24    |
| 3.51- 7.50  | 13 | 0   | 0  | 3   | 0 | 1   | 7  | 15  | 23 | 7   | 3  | 5   | 0 | 1    | 5  | 10  | 93    |
| 7.51-12.50  | 2  | 0   | 0  | 0   | 0 | 0   | 3  | 13  | 18 | 4   | 2  | 1   | 1 | 1    | 1  | 2   | 50    |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 2   | 0  | 2   | 10 | 4   | 2  | 0   | 3 | 0    | 0  | 3   | 26    |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 3  | 0   | 0  | 2   | 4 | 1    | 0  | 0   | 10    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 2   | 1 | 0    | 0  | 0   | 3     |
| TOTAL       | 18 | 0   | 0  | 4   | 0 | 4   | 10 | 31  | 59 | 17  | 8  | 14  | 9 | 5    | 7  | 20  | 206   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/1/0 - 3/31/0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|------|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |    |     |    |     |   |      |    |     | 0     |
| 1.01- 3.50  | 1 | 1   | 0  | 0   | 0 | 3   | 4  | 9   | 3  | 4   | 3  | 2   | 0 | 0    | 2  | 2   | 34    |
| 3.51- 7.50  | 7 | 1   | 0  | 1   | 0 | 0   | 6  | 13  | 13 | 3   | 1  | 0   | 0 | 1    | 1  | 6   | 53    |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 0  | 0   | 0  | 0   | 0 | 1    | 1  | 1   | 7     |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0    | 0  | 0   | 0     |
| 18.51-24.00 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 1 | 0    | 0  | 0   | 1     |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0    | 0  | 0   | 0     |
| TOTAL       | 8 | 2   | 0  | 1   | 0 | 3   | 10 | 24  | 18 | 7   | 4  | 2   | 1 | 2    | 4  | 9   | 95    |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|------|-----|-----|-------|
| CALM        |     |     |    |     |    |     |     |     |     |     |    |     |    |      |     |     | 0     |
| 1.01- 3.50  | 10  | 4   | 3  | 2   | 0  | 4   | 5   | 10  | 10  | 7   | 4  | 6   | 3  | 1    | 4   | 11  | 84    |
| 3.51- 7.50  | 59  | 34  | 22 | 23  | 14 | 17  | 27  | 48  | 47  | 19  | 7  | 13  | 1  | 12   | 14  | 38  | 395   |
| 7.51-12.50  | 64  | 21  | 9  | 22  | 43 | 39  | 41  | 52  | 57  | 28  | 16 | 15  | 5  | 20   | 34  | 48  | 514   |
| 12.51-18.50 | 49  | 1   | 3  | 4   | 3  | 21  | 31  | 42  | 59  | 62  | 23 | 15  | 16 | 14   | 30  | 46  | 419   |
| 18.51-24.00 | 9   | 1   | 0  | 0   | 0  | 0   | 8   | 25  | 32  | 29  | 4  | 19  | 12 | 18   | 22  | 31  | 210   |
| >24.00      | 0   | 0   | 0  | 0   | 0  | 0   | 3   | 13  | 23  | 14  | 2  | 7   | 7  | 17   | 44  | 29  | 159   |
| TOTAL       | 191 | 61  | 37 | 51  | 60 | 81  | 115 | 190 | 228 | 159 | 56 | 75  | 44 | 82   | 148 | 203 | 1781  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-1.0M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184  
 TOTAL NUMBER OF VALID OBSERVATIONS: 1781  
 TOTAL NUMBER OF MISSING OBSERVATIONS: 403  
 PERCENT DATA RECOVERY FOR THIS PERIOD: 81.5 %  
 MEAN WIND SPEED FOR THIS PERIOD: 12.9 MPH  
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

|  | A    | B    | C    | D     | E     | F     | G    |
|--|------|------|------|-------|-------|-------|------|
|  | 4.88 | 4.49 | 8.03 | 39.64 | 26.05 | 11.57 | 5.33 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNW | NW  | NNW | CALM |
|-------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|------|
| A     | 15  | 6   | 2  | 5   | 5  | 8   | 4   | 8   | 17  | 3   | 1  | 0   | 3  | 2   | 1   | 7   | 0    |
| B     | 7   | 5   | 3  | 2   | 2  | 4   | 5   | 2   | 9   | 14  | 1  | 0   | 1  | 1   | 5   | 19  | 0    |
| C     | 15  | 5   | 1  | 2   | 4  | 6   | 6   | 5   | 16  | 24  | 5  | 13  | 1  | 15  | 9   | 16  | 0    |
| D     | 84  | 34  | 24 | 32  | 42 | 44  | 42  | 30  | 41  | 52  | 24 | 29  | 16 | 36  | 91  | 85  | 0    |
| E     | 44  | 9   | 7  | 5   | 7  | 12  | 38  | 90  | 68  | 42  | 13 | 17  | 13 | 21  | 31  | 47  | 0    |
| F     | 18  | 0   | 0  | 4   | 0  | 4   | 10  | 31  | 59  | 17  | 8  | 14  | 9  | 5   | 7   | 20  | 0    |
| G     | 8   | 2   | 0  | 1   | 0  | 3   | 10  | 24  | 18  | 7   | 4  | 2   | 1  | 2   | 4   | 9   | 0    |
| TOTAL | 191 | 61  | 37 | 51  | 60 | 81  | 115 | 190 | 228 | 159 | 56 | 75  | 44 | 82  | 148 | 203 | 0    |

**JFDs of 10-Meter Wind vs. Delta T**

April-June 2000



PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 1  | 1   | 1  | 0   | 2 | 2   | 2  | 1   | 5  | 4   | 2  | 1   | 1 | 0   | 4  | 1   | 28    |
| 7.51-12.50  | 9  | 2   | 2  | 0   | 1 | 2   | 2  | 0   | 1  | 4   | 1  | 2   | 1 | 1   | 10 | 10  | 48    |
| 12.51-18.50 | 10 | 1   | 1  | 0   | 0 | 0   | 0  | 40  | 23 | 6   | 3  | 1   | 1 | 2   | 9  | 15  | 112   |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 3  | 14  | 17 | 5   | 0  | 0   | 1 | 1   | 2  | 3   | 46    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 37 | 7   | 2  | 1   | 0 | 0   | 3  | 5   | 57    |
| TOTAL       | 20 | 4   | 4  | 0   | 3 | 4   | 7  | 57  | 83 | 26  | 8  | 5   | 4 | 4   | 28 | 34  | 291   |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 2 | 3   | 3  | 1   | 0 | 0   | 2  | 1   | 0  | 0   | 1  | 2   | 0 | 0   | 0  | 2   | 17    |
| 7.51-12.50  | 3 | 0   | 1  | 1   | 3 | 3   | 7  | 12  | 6  | 1   | 1  | 3   | 0 | 2   | 3  | 8   | 54    |
| 12.51-18.50 | 2 | 0   | 0  | 1   | 4 | 7   | 7  | 11  | 6  | 2   | 5  | 5   | 4 | 2   | 8  | 8   | 72    |
| 18.51-24.00 | 0 | 0   | 1  | 0   | 0 | 0   | 2  | 4   | 7  | 0   | 0  | 0   | 2 | 2   | 4  | 5   | 27    |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 2  | 2   | 0  | 1   | 0 | 0   | 4  | 8   | 18    |
| TOTAL       | 7 | 3   | 5  | 3   | 7 | 10  | 18 | 29  | 21 | 5   | 7  | 11  | 6 | 6   | 19 | 31  | 188   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| CALM        | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0 | 2   | 2  | 0   | 1 | 0   | 0  | 9   | 1  | 4   | 0  | 0   | 2  | 0   | 1  | 3   | 25    |
| 3.51- 7.50  | 4 | 3   | 1  | 1   | 0 | 4   | 7  | 6   | 9  | 3   | 1  | 3   | 5  | 0   | 7  | 8   | 62    |
| 7.51-12.50  | 1 | 1   | 0  | 1   | 4 | 3   | 7  | 7   | 3  | 11  | 3  | 2   | 4  | 4   | 8  | 4   | 63    |
| 12.51-18.50 | 0 | 1   | 0  | 0   | 0 | 0   | 0  | 5   | 7  | 2   | 2  | 2   | 1  | 1   | 2  | 2   | 25    |
| 18.51-24.00 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 3   | 3  | 0   | 0  | 1   | 0  | 1   | 5  | 6   | 19    |
| TOTAL       | 5 | 7   | 3  | 2   | 5 | 7   | 14 | 30  | 24 | 20  | 6  | 8   | 12 | 6   | 23 | 23  | 195   |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| CALM        | 1  | 2   | 1  | 1   | 0  | 0   | 1  | 1   | 2  | 0   | 0  | 2   | 0  | 0   | 0  | 0   | 11    |
| 1.01- 3.50  | 12 | 13  | 7  | 11  | 7  | 14  | 14 | 15  | 8  | 7   | 2  | 5   | 2  | 2   | 2  | 8   | 129   |
| 3.51- 7.50  | 21 | 11  | 9  | 7   | 22 | 19  | 22 | 14  | 17 | 14  | 7  | 5   | 6  | 8   | 14 | 13  | 209   |
| 7.51-12.50  | 12 | 4   | 2  | 1   | 9  | 5   | 18 | 31  | 22 | 16  | 7  | 4   | 4  | 14  | 6  | 29  | 184   |
| 12.51-18.50 | 0  | 0   | 1  | 0   | 0  | 1   | 2  | 16  | 26 | 7   | 3  | 4   | 5  | 12  | 9  | 21  | 107   |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 2   | 12 | 2   | 0  | 1   | 7  | 4   | 15 | 19  | 62    |
| TOTAL       | 46 | 30  | 20 | 20  | 38 | 39  | 57 | 79  | 87 | 46  | 19 | 21  | 24 | 40  | 46 | 90  | 702   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S   | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|-------|
| 1.01- 3.50  | 1  | 1   | 0  | 0   | 0  | 0   | 0  | 3   | 2   | 1   | 0  | 1   | 3  | 2   | 5  | 2   | 21    |
| 3.51- 7.50  | 6  | 4   | 7  | 3   | 3  | 2   | 5  | 12  | 22  | 9   | 2  | 1   | 1  | 1   | 4  | 13  | 95    |
| 7.51-12.50  | 8  | 2   | 0  | 7   | 5  | 8   | 12 | 23  | 17  | 4   | 4  | 1   | 1  | 6   | 5  | 7   | 110   |
| 12.51-18.50 | 3  | 0   | 0  | 1   | 6  | 11  | 4  | 38  | 31  | 10  | 7  | 4   | 3  | 10  | 6  | 10  | 144   |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0  | 1   | 2  | 10  | 19  | 8   | 0  | 0   | 4  | 6   | 8  | 3   | 61    |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 1   | 1  | 0   | 15  | 2   | 0  | 0   | 1  | 1   | 9  | 9   | 39    |
| TOTAL       | 18 | 7   | 7  | 11  | 14 | 23  | 24 | 86  | 106 | 34  | 13 | 7   | 13 | 26  | 37 | 44  | 470   |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 5  | 1   | 0  | 0   | 0 | 0   | 1  | 6   | 7  | 4   | 3  | 1   | 2 | 2   | 2  | 10  | 44    |
| 3.51- 7.50  | 6  | 1   | 0  | 0   | 0 | 1   | 1  | 10  | 17 | 4   | 1  | 3   | 1 | 2   | 7  | 14  | 68    |
| 7.51-12.50  | 0  | 0   | 2  | 0   | 0 | 0   | 0  | 3   | 15 | 4   | 0  | 0   | 0 | 2   | 1  | 0   | 27    |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 1   | 0  | 0   | 0 | 1   | 0  | 0   | 2     |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| TOTAL       | 11 | 2   | 2  | 0   | 0 | 1   | 2  | 19  | 39 | 13  | 4  | 4   | 3 | 7   | 11 | 24  | 142   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |   |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 4  | 2   | 0  | 0   | 0 | 0   | 3  | 7   | 2 | 2   | 0  | 1   | 1 | 2   | 4  | 3   | 31    |
| 3.51- 7.50  | 5  | 2   | 1  | 0   | 0 | 0   | 1  | 10  | 3 | 0   | 0  | 3   | 1 | 1   | 4  | 9   | 40    |
| 7.51-12.50  | 1  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1 | 0   | 0  | 0   | 1 | 1   | 0  | 0   | 4     |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 1  | 0   | 0 | 0   | 0  | 0   | 1     |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| TOTAL       | 10 | 4   | 1  | 0   | 0 | 0   | 4  | 17  | 6 | 2   | 1  | 4   | 3 | 4   | 8  | 12  | 76    |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-------|
| CALM        |     |     |    |     |    |     |     |     |     |     |    |     |    |     |     |     | 0     |
| 1.01- 3.50  | 11  | 6   | 1  | 1   | 0  | 0   | 5   | 17  | 14  | 7   | 3  | 5   | 6  | 6   | 11  | 15  | 108   |
| 3.51- 7.50  | 32  | 26  | 21 | 15  | 13 | 19  | 25  | 58  | 56  | 28  | 8  | 15  | 8  | 6   | 22  | 50  | 402   |
| 7.51-12.50  | 46  | 18  | 15 | 16  | 31 | 36  | 50  | 58  | 66  | 30  | 14 | 14  | 14 | 20  | 40  | 46  | 514   |
| 12.51-18.50 | 28  | 6   | 3  | 4   | 23 | 26  | 36  | 127 | 85  | 46  | 26 | 16  | 16 | 33  | 37  | 66  | 578   |
| 18.51-24.00 | 0   | 1   | 2  | 0   | 0  | 2   | 9   | 49  | 76  | 22  | 5  | 6   | 13 | 22  | 25  | 34  | 266   |
| >24.00      | 0   | 0   | 0  | 0   | 0  | 1   | 1   | 8   | 69  | 13  | 2  | 4   | 8  | 6   | 37  | 47  | 196   |
| TOTAL       | 117 | 57  | 42 | 36  | 67 | 84  | 126 | 317 | 366 | 146 | 58 | 60  | 65 | 93  | 172 | 258 | 2064  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-1.0M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2064

TOTAL NUMBER OF MISSING OBSERVATIONS: 120

PERCENT DATA RECOVERY FOR THIS PERIOD: 94.5 %

MEAN WIND SPEED FOR THIS PERIOD: 13.4 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

|  | A     | B    | C    | D     | E     | F    | G    |
|--|-------|------|------|-------|-------|------|------|
|  | 14.10 | 9.11 | 9.45 | 34.01 | 22.77 | 6.88 | 3.68 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNW | NW  | NNW | CALM |
|-------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|------|
| A     | 20  | 4   | 4  | 0   | 3  | 4   | 7   | 57  | 83  | 26  | 8  | 5   | 4  | 4   | 28  | 34  | 0    |
| B     | 7   | 3   | 5  | 3   | 7  | 10  | 18  | 29  | 21  | 5   | 7  | 11  | 6  | 6   | 19  | 31  | 0    |
| C     | 5   | 7   | 3  | 2   | 5  | 7   | 14  | 30  | 24  | 20  | 6  | 8   | 12 | 6   | 23  | 23  | 0    |
| D     | 46  | 30  | 20 | 20  | 38 | 39  | 57  | 79  | 87  | 46  | 19 | 21  | 24 | 40  | 46  | 90  | 0    |
| E     | 18  | 7   | 7  | 11  | 14 | 23  | 24  | 86  | 106 | 34  | 13 | 7   | 13 | 26  | 37  | 44  | 0    |
| F     | 11  | 2   | 2  | 0   | 0  | 1   | 2   | 19  | 39  | 13  | 4  | 4   | 3  | 7   | 11  | 24  | 0    |
| G     | 10  | 4   | 1  | 0   | 0  | 0   | 4   | 17  | 6   | 2   | 1  | 4   | 3  | 4   | 8   | 12  | 0    |
| TOTAL | 117 | 57  | 42 | 36  | 67 | 84  | 126 | 317 | 366 | 146 | 58 | 60  | 65 | 93  | 172 | 258 | 0    |

**JFDs of 10-Meter Wind vs. Delta T**

January-June 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

\*\*\* JAN-JUN 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S   | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|-----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |     |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 0  | 1   | 0  | 1   | 0 | 0   | 1  | 0   | 0   | 0   | 0  | 0   | 1 | 0   | 1  | 1   | 6     |
| 3.51- 7.50  | 2  | 5   | 3  | 4   | 6 | 2   | 3  | 3   | 5   | 5   | 2  | 1   | 1 | 1   | 4  | 1   | 51    |
| 7.51-12.50  | 16 | 3   | 2  | 2   | 4 | 4   | 1  | 2   | 2   | 5   | 1  | 2   | 1 | 1   | 10 | 10  | 64    |
| 12.51-18.50 | 17 | 1   | 1  | 0   | 2 | 1   | 1  | 41  | 27  | 6   | 4  | 1   | 1 | 3   | 9  | 17  | 131   |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 3  | 16  | 27  | 6   | 0  | 0   | 2 | 1   | 2  | 5   | 62    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 4   | 39  | 7   | 2  | 1   | 1 | 0   | 3  | 7   | 64    |
| TOTAL       | 35 | 10  | 6  | 5   | 8 | 12  | 11 | 65  | 100 | 29  | 9  | 5   | 7 | 6   | 29 | 41  | 378   |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 2  | 6   | 6  | 3   | 1 | 1   | 3  | 1   | 1  | 0   | 1  | 2   | 0 | 0   | 0  | 2   | 29    |
| 7.51-12.50  | 9  | 2   | 1  | 1   | 4 | 5   | 8  | 13  | 7  | 2   | 1  | 3   | 0 | 2   | 5  | 10  | 73    |
| 12.51-18.50 | 3  | 0   | 0  | 1   | 4 | 8   | 10 | 12  | 8  | 5   | 6  | 5   | 5 | 2   | 9  | 14  | 92    |
| 18.51-24.00 | 0  | 0   | 1  | 0   | 0 | 0   | 2  | 4   | 9  | 9   | 0  | 0   | 2 | 3   | 6  | 16  | 52    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 5  | 3   | 0  | 1   | 0 | 0   | 4  | 8   | 22    |
| TOTAL       | 14 | 8   | 8  | 5   | 9 | 14  | 23 | 31  | 30 | 19  | 8  | 11  | 7 | 7   | 24 | 50  | 268   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-1.0M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

\*\*\* JAN-JUN 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | MNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |    |     |    |     | 0     |
| 1.01- 3.50  | 1  | 0   | 1  | 0   | 0 | 0   | 0  | 0   | 1  | 0   | 0  | 0   | 0  | 1   | 0  | 0   | 4     |
| 3.51- 7.50  | 3  | 5   | 2  | 0   | 3 | 0   | 3  | 10  | 2  | 5   | 0  | 2   | 2  | 0   | 1  | 4   | 42    |
| 7.51-12.50  | 14 | 5   | 1  | 3   | 2 | 7   | 9  | 7   | 13 | 6   | 2  | 9   | 5  | 3   | 9  | 15  | 110   |
| 12.51-18.50 | 2  | 1   | 0  | 1   | 4 | 6   | 8  | 9   | 7  | 22  | 6  | 6   | 5  | 6   | 10 | 7   | 100   |
| 18.51-24.00 | 0  | 1   | 0  | 0   | 0 | 0   | 0  | 6   | 9  | 9   | 3  | 3   | 1  | 6   | 3  | 5   | 46    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 3   | 8  | 2   | 0  | 1   | 0  | 5   | 9  | 8   | 36    |
| TOTAL       | 20 | 12  | 4  | 4   | 9 | 13  | 20 | 35  | 40 | 44  | 11 | 21  | 13 | 21  | 32 | 39  | 338   |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE | SSE | S   | SSW | SW | WSW | W  | MNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|-----|-----|-------|
| CALM        |     |     |    |     |    |     |    |     |     |     |    |     |    |     |     |     | 0     |
| 1.01- 3.50  | 6   | 4   | 3  | 1   | 0  | 0   | 1  | 1   | 4   | 1   | 0  | 2   | 1  | 0   | 0   | 0   | 24    |
| 3.51- 7.50  | 30  | 31  | 17 | 22  | 13 | 23  | 21 | 21  | 10  | 10  | 3  | 9   | 3  | 8   | 8   | 18  | 247   |
| 7.51-12.50  | 42  | 23  | 18 | 24  | 55 | 45  | 43 | 24  | 25  | 24  | 16 | 11  | 8  | 17  | 39  | 27  | 441   |
| 12.51-18.50 | 44  | 5   | 5  | 5   | 12 | 14  | 31 | 42  | 35  | 42  | 18 | 13  | 10 | 22  | 30  | 54  | 382   |
| 18.51-24.00 | 8   | 1   | 1  | 0   | 0  | 1   | 3  | 18  | 31  | 14  | 4  | 12  | 8  | 16  | 21  | 34  | 172   |
| >24.00      | 0   | 0   | 0  | 0   | 0  | 0   | 0  | 3   | 23  | 7   | 2  | 3   | 10 | 13  | 39  | 42  | 142   |
| TOTAL       | 130 | 64  | 44 | 52  | 80 | 83  | 99 | 109 | 128 | 98  | 43 | 50  | 40 | 76  | 137 | 175 | 1408  |



PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

\*\*\* JAN-JUN 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S   | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|-------|
| 1.01- 3.50  | 1  | 1   | 0  | 0   | 0  | 0   | 0  | 3   | 2   | 1   | 0  | 1   | 4  | 2   | 5  | 5   | 25    |
| 3.51- 7.50  | 23 | 9   | 14 | 5   | 4  | 4   | 8  | 23  | 29  | 13  | 4  | 3   | 1  | 4   | 6  | 24  | 174   |
| 7.51-12.50  | 26 | 6   | 0  | 10  | 11 | 14  | 24 | 47  | 40  | 13  | 8  | 3   | 3  | 10  | 8  | 29  | 252   |
| 12.51-18.50 | 11 | 0   | 0  | 1   | 6  | 15  | 17 | 63  | 57  | 28  | 12 | 6   | 8  | 13  | 9  | 17  | 263   |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0  | 1   | 9  | 30  | 29  | 13  | 2  | 8   | 7  | 13  | 15 | 5   | 133   |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 1   | 4  | 10  | 17  | 8   | 0  | 3   | 3  | 5   | 25 | 11  | 87    |
| TOTAL       | 62 | 16  | 14 | 16  | 21 | 35  | 62 | 176 | 174 | 76  | 26 | 24  | 26 | 47  | 68 | 91  | 934   |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| 1.01- 3.50  | 8  | 1   | 0  | 1   | 0 | 1   | 1  | 7   | 12 | 6   | 4  | 5   | 2  | 2   | 3  | 15  | 68    |
| 3.51- 7.50  | 19 | 1   | 0  | 3   | 0 | 2   | 8  | 25  | 40 | 11  | 4  | 8   | 1  | 3   | 12 | 24  | 161   |
| 7.51-12.50  | 2  | 0   | 2  | 0   | 0 | 0   | 3  | 16  | 33 | 8   | 2  | 1   | 1  | 5   | 2  | 2   | 77    |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 10 | 5   | 2  | 0   | 3  | 1   | 0  | 3   | 28    |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 3  | 0   | 0  | 2   | 4  | 1   | 0  | 0   | 10    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 2   | 1  | 0   | 1  | 0   | 4     |
| TOTAL       | 29 | 2   | 2  | 4   | 0 | 5   | 12 | 50  | 98 | 30  | 12 | 18  | 12 | 12  | 18 | 44  | 348   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

\*\*\* JAN-JUN 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 5  | 3   | 0  | 0   | 0 | 3   | 7  | 16  | 5  | 6   | 3  | 3   | 1 | 2   | 6  | 5   | 65    |
| 3.51- 7.50  | 12 | 3   | 1  | 1   | 0 | 0   | 7  | 23  | 16 | 3   | 1  | 3   | 1 | 2   | 5  | 15  | 93    |
| 7.51-12.50  | 1  | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 3  | 0   | 0  | 0   | 1 | 2   | 1  | 1   | 11    |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 1  | 0   | 0 | 0   | 0  | 0   | 1     |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 1 | 0   | 0  | 0   | 1     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| TOTAL       | 18 | 6   | 1  | 1   | 0 | 3   | 14 | 41  | 24 | 9   | 5  | 6   | 4 | 6   | 12 | 21  | 171   |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E   | ESE | SE  | SSE | S   | SSW | SW  | WSW | W   | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| CALM        |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     | 0     |
| 1.01- 3.50  | 21  | 10  | 4  | 3   | 0   | 4   | 10  | 27  | 24  | 14  | 7   | 11  | 9   | 7   | 15  | 26  | 192   |
| 3.51- 7.50  | 91  | 60  | 43 | 38  | 27  | 36  | 52  | 106 | 103 | 47  | 15  | 28  | 9   | 18  | 36  | 88  | 797   |
| 7.51-12.50  | 110 | 39  | 24 | 38  | 74  | 75  | 91  | 110 | 123 | 58  | 30  | 29  | 19  | 40  | 74  | 94  | 1028  |
| 12.51-18.50 | 77  | 7   | 6  | 8   | 26  | 47  | 67  | 169 | 144 | 108 | 49  | 31  | 32  | 47  | 67  | 112 | 997   |
| 18.51-24.00 | 9   | 2   | 2  | 0   | 0   | 2   | 17  | 74  | 108 | 51  | 9   | 25  | 25  | 40  | 47  | 65  | 476   |
| >24.00      | 0   | 0   | 0  | 0   | 0   | 1   | 4   | 21  | 92  | 27  | 4   | 11  | 15  | 23  | 81  | 76  | 355   |
| TOTAL       | 308 | 118 | 79 | 87  | 127 | 165 | 241 | 507 | 594 | 305 | 114 | 135 | 109 | 175 | 320 | 461 | 3845  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

\*\*\* JAN-JUN 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4368  
 TOTAL NUMBER OF VALID OBSERVATIONS: 3845  
 TOTAL NUMBER OF MISSING OBSERVATIONS: 523  
 PERCENT DATA RECOVERY FOR THIS PERIOD: 88.0 %  
 MEAN WIND SPEED FOR THIS PERIOD: 13.1 MPH  
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

|  | A    | B    | C    | D     | E     | F    | G    |
|--|------|------|------|-------|-------|------|------|
|  | 9.83 | 6.97 | 8.79 | 36.62 | 24.29 | 9.05 | 4.45 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE | ENE | E   | ESE | SE  | SSE | S   | SSW | SW  | WSW | W   | WNW | NW  | NNW | CALM |
|-------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| A     | 35  | 10  | 6  | 5   | 8   | 12  | 11  | 65  | 100 | 29  | 9   | 5   | 7   | 6   | 29  | 41  | 0    |
| B     | 14  | 8   | 8  | 5   | 9   | 14  | 23  | 31  | 30  | 19  | 8   | 11  | 7   | 7   | 24  | 50  | 0    |
| C     | 20  | 12  | 4  | 4   | 9   | 13  | 20  | 35  | 40  | 44  | 11  | 21  | 13  | 21  | 32  | 39  | 0    |
| D     | 130 | 64  | 44 | 52  | 80  | 83  | 99  | 109 | 128 | 98  | 43  | 50  | 40  | 76  | 137 | 175 | 0    |
| E     | 62  | 16  | 14 | 16  | 21  | 35  | 62  | 176 | 174 | 76  | 26  | 24  | 26  | 47  | 68  | 91  | 0    |
| F     | 29  | 2   | 2  | 4   | 0   | 5   | 12  | 50  | 98  | 30  | 12  | 18  | 12  | 12  | 18  | 44  | 0    |
| G     | 18  | 6   | 1  | 1   | 0   | 3   | 14  | 41  | 24  | 9   | 5   | 6   | 4   | 6   | 12  | 21  | 0    |
| TOTAL | 308 | 118 | 79 | 87  | 127 | 165 | 241 | 507 | 594 | 305 | 114 | 135 | 109 | 175 | 320 | 461 | 0    |

**Stability Classes by Hour of Day**

**10-Meter Wind vs. Delta T**

January-June 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

| YR | MN | DY | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |    |    | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0  | 1  | 1  | G                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 1  | 2  | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 1  | 3  | B                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 1  | 4  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 5  | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 1  | 6  | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 1  | 7  | E                  | F | G | G | F | E | E | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 1  | 8  | E                  | E | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 1  | 9  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 1  | 10 | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 1  | 11 | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 1  | 12 | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 1  | 13 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 14 | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 1  | 15 | F                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 1  | 16 | E                  | E | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 17 | D                  | D | A | A | A | A | A | A | A | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  |
| 0  | 1  | 18 | A                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 1  | 19 | G                  | F | E | E | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 20 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 21 | F                  | E | E | F | F | G | G | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 1  | 22 | E                  | F | F | E | E | E | E | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 1  | 23 | D                  | D | C | C | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 24 | G                  | E | E | E | E | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 25 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 26 | E                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 27 | E                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 28 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 29 | C                  | B | A | A | B | B | C | C | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 1  | 30 | B                  | C | D | D | F | F | E | E | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 2  | 1  | E                  | E | F | F | F | F | E | E | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 2  | 2  | E                  | E | E | E | E | E | E | E | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 2  | 3  | E                  | F | F | E | E | E | E | E | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 2  | 4  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 2  | 5  | G                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 2  | 6  | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 2  | 7  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 8  | F                  | F | G | G | G | G | G | E | E | D  | C  | B  | B  | B  | B  | B  | B  | B  | B  | B  | B  | B  | B  | B  |
| 0  | 2  | 9  | E                  | E | E | F | G | G | G | E | E | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 2  | 10 | F                  | G | G | F | E | E | E | D | B | A  | A  | B  | B  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  |
| 0  | 2  | 11 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 2  | 12 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 13 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 14 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

| YR | MN | DY | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |    |    | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0  | 2  | 15 | D                  | D | E | E | E | D | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 2  | 16 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 17 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 18 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 19 | D                  | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  |
| 0  | 2  | 20 | G                  | F | F | G | G | F | E | E | D | C  | C  | B  | B  | C  | D  | E  | F  | F  | E  | E  | E  | E  | E  | E  |
| 0  | 2  | 21 | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 2  | 22 | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 2  | 23 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 24 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 25 | E                  | E | D | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 26 | E                  | E | F | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 2  | 27 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 2  | 28 | G                  | G | E | F | F | F | F | F | E | D  | B  | C  | D  | D  | D  | D  | E  | F  | F  | G  | G  | F  | F  | F  |
| 0  | 2  | 29 | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 3  | 1  | E                  | E | F | E | E | F | E | E | E | D  | B  | B  | A  | C  | C  | D  | D  | E  | E  | E  | E  | E  | E  | E  |
| 0  | 3  | 2  | G                  | F | F | E | F | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 3  | E                  | E | E | E | E | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 4  | F                  | F | F | E | E | F | F | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 3  | 5  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 3  | 6  | D                  | E | E | E | E | E | E | D | C | B  | A  | A  | A  | A  | A  | A  | C  | D  | E  | E  | E  | E  | E  | E  |
| 0  | 3  | 7  | E                  | E | E | E | E | E | E | D | D | C  | A  | A  | A  | A  | A  | C  | D  | D  | E  | E  | E  | E  | E  | E  |
| 0  | 3  | 8  | E                  | E | E | E | E | E | E | D | D | C  | D  | C  | D  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 9  | D                  | D | D | D | D | D | D | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 3  | 10 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 3  | 11 | F                  | E | E | F | E | F | E | E | D | B  | B  | A  | A  | C  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 12 | F                  | G | G | F | G | F | F | E | D | D  | B  | B  | C  | B  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 13 | D                  | D | D | D | D | D | D | D | D | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  |
| 0  | 3  | 14 | F                  | F | F | F | F | F | E | E | E | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 15 | F                  | F | F | F | F | F | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 3  | 16 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 17 | E                  | D | D | E | E | E | E | D | D | C  | A  | B  | B  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 18 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 19 | A                  | A | A | A | A | C | D | B | C | A  | A  | A  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 20 | D                  | D | B | A | A | A | A | A | B | C  | D  | C  | D  | D  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 21 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 22 | D                  | A | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 3  | 23 | D                  | D | D | D | C | B | B | A | A | A  | B  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 24 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 3  | 25 | G                  | G | F | F | F | G | G | F | F | D  | D  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 26 | F                  | G | G | F | F | G | G | F | F | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 27 | G                  | G | F | F | F | G | G | F | F | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 28 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 3  | 29 | G                  | G | G | G | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0  | 3  | 30 | D                  | D | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |

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| YR | MN | DY | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |    |    | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0  | 3  | 31 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 1  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 2  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 3  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 4  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 5  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 6  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 7  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 8  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 9  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 10 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 11 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 12 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 13 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 14 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 15 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 16 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 17 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 18 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 19 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 20 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 21 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 22 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 23 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 24 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 25 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 26 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 27 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 28 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 29 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 4  | 30 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 1  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 2  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 3  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 4  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 5  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 6  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 7  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 8  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 9  | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 10 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 11 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 12 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 13 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0  | 5  | 14 | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

| YR | MN | DY | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |
|----|----|----|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|
|    |    |    | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |   |   |   |
| 0  | 5  | 15 | F                  | F | F | E | E | D | D | D | D | C  | A  | A  | A  | A  | A  | A  | A  | A  | A  | B  | D  | D  | D  | D  | E | - |   |
| 0  | 5  | 16 | E                  | D | D | D | D | D | D | D | D | B  | A  | A  | A  | C  | C  | C  | C  | C  | C  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 17 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 18 | E                  | E | E | E | E | E | E | E | E | D  | A  | B  | A  | A  | C  | C  | C  | C  | C  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 19 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 20 | E                  | F | E | E | E | E | E | E | E | C  | B  | B  | A  | A  | B  | A  | A  | A  | B  | B  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 21 | E                  | E | E | E | E | E | E | E | E | C  | C  | C  | A  | A  | B  | A  | A  | A  | B  | B  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 22 | F                  | F | F | E | E | E | E | E | E | D  | D  | D  | B  | C  | B  | A  | C  | B  | A  | C  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 23 | G                  | F | G | G | G | G | G | G | G | F  | E  | D  | D  | C  | D  | A  | C  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 24 | G                  | F | G | G | G | G | G | G | F | E  | D  | D  | C  | D  | A  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 25 | E                  | F | G | G | G | G | G | F | E | D  | D  | C  | D  | A  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 26 | D                  | E | D | E | D | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | - |
| 0  | 5  | 27 | -                  | - | B | C | C | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 28 | E                  | E | E | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 29 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 30 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 5  | 31 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 1  | D                  | E | E | E | E | E | E | E | E | D  | C  | B  | B  | A  | A  | B  | B  | A  | B  | B  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 2  | A                  | A | E | E | E | E | E | E | E | D  | C  | B  | B  | A  | A  | B  | B  | A  | B  | B  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 3  | F                  | F | F | E | E | E | E | E | E | D  | D  | D  | B  | A  | A  | B  | B  | A  | B  | B  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 4  | E                  | E | E | E | E | E | E | E | E | D  | D  | D  | B  | A  | A  | B  | B  | A  | B  | B  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 5  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | B  | A  | A  | B  | B  | A  | B  | B  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 6  | F                  | F | F | E | E | E | E | E | E | E  | C  | B  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A | A | A |
| 0  | 6  | 7  | E                  | E | E | E | E | E | E | E | E | E  | C  | B  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A | A | A |
| 0  | 6  | 8  | E                  | E | E | E | E | E | E | E | E | E  | C  | B  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A | A | A |
| 0  | 6  | 9  | E                  | E | E | E | E | E | E | E | E | E  | C  | B  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A | A | A |
| 0  | 6  | 10 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D |   |
| 0  | 6  | 11 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 12 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 13 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 14 | B                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D | D | D |
| 0  | 6  | 15 | G                  | G | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F | F | F |
| 0  | 6  | 16 | A                  | A | A | A | A | A | A | A | A | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A | A | A |
| 0  | 6  | 17 | F                  | F | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F | F | F |
| 0  | 6  | 18 | F                  | F | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F | F | F |
| 0  | 6  | 19 | F                  | F | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F | F | F |
| 0  | 6  | 20 | D                  | D | A | A | A | A | A | A | A | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A | A | A |
| 0  | 6  | 21 | E                  | F | G | G | G | G | G | G | G | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G | G | G |
| 0  | 6  | 22 | E                  | E | G | G | G | G | G | G | G | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G | G | G |
| 0  | 6  | 23 | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E | E | E |
| 0  | 6  | 24 | -                  | - | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F | F | F |
| 0  | 6  | 25 | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F | F | F |
| 0  | 6  | 26 | A                  | A | A | A | A | A | A | A | A | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A | A | A |
| 0  | 6  | 27 | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F | F | F |
| 0  | 6  | 28 | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E | E | E |



PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-1.0M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

|    |    | HOURLY STABILITIES |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|--------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |    | HOURS              |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| YR | MN | DY                 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0  | 6  | 29                 | E | E | F | E | E | F | E | D | B | C  | B  | A  | A  | C  | D  | D  | D  | E  | E  | E  | E  | E  | E  | -  |
| 0  | 6  | 30                 | E | E | E | E | F | E | F | E | D | D  | D  | D  | A  | A  | D  | D  | D  | D  | D  | F  | F  | E  | E  | -  |

**JFDs of 10-Meter Wind vs. Delta T**

July-September 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 9/30/ 0

\*\*\* JUL-SEP 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0  | 1   | 0  | 0   | 0 | 0   | 1  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 3  | 5   | 0  | 0   | 1 | 3   | 1  | 0   | 2  | 3   | 0  | 0   | 0 | 0   | 1  | 8   | 28    |
| 7.51-12.50  | 9  | 0   | 1  | 2   | 3 | 7   | 5  | 13  | 8  | 2   | 0  | 0   | 0 | 0   | 1  | 11  | 70    |
| 12.51-18.50 | 3  | 0   | 0  | 3   | 2 | 7   | 15 | 25  | 19 | 3   | 4  | 4   | 1 | 1   | 1  | 11  | 100   |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 5  | 4   | 10 | 0   | 0  | 0   | 0 | 0   | 1  | 2   | 22    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 2  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 2     |
| TOTAL       | 15 | 6   | 1  | 5   | 6 | 17  | 27 | 43  | 39 | 16  | 8  | 4   | 0 | 1   | 4  | 32  | 224   |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0  | 1   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 4  | 4   | 2  | 0   | 0 | 0   | 0  | 1   | 2  | 0   | 0  | 1   | 0 | 0   | 0  | 0   | 14    |
| 7.51-12.50  | 3  | 1   | 1  | 4   | 1 | 5   | 9  | 6   | 3  | 5   | 2  | 0   | 0 | 0   | 1  | 7   | 48    |
| 12.51-18.50 | 3  | 0   | 0  | 2   | 3 | 14  | 11 | 9   | 7  | 1   | 0  | 0   | 0 | 0   | 0  | 4   | 54    |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 1  | 0   | 4  | 1   | 0  | 0   | 0 | 1   | 0  | 1   | 8     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 5  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 5     |
| TOTAL       | 10 | 6   | 3  | 6   | 4 | 19  | 21 | 16  | 21 | 7   | 2  | 1   | 0 | 1   | 1  | 12  | 130   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 9/30/ 0

\*\*\* JUL-SEP 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |   |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 1  | 0   | 0  | 0   | 0 | 0   | 1  | 0   | 0 | 1   | 0  | 0   | 0 | 0   | 0  | 0   | 3     |
| 3.51- 7.50  | 11 | 4   | 8  | 2   | 1 | 0   | 2  | 1   | 3 | 1   | 3  | 1   | 3 | 0   | 2  | 0   | 42    |
| 7.51-12.50  | 9  | 7   | 3  | 2   | 5 | 4   | 6  | 5   | 2 | 7   | 0  | 1   | 0 | 0   | 1  | 8   | 60    |
| 12.51-18.50 | 0  | 1   | 0  | 2   | 3 | 6   | 7  | 4   | 3 | 5   | 0  | 0   | 0 | 1   | 0  | 5   | 37    |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 1  | 0   | 1 | 1   | 0  | 0   | 0 | 2   | 1  | 0   | 6     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| TOTAL       | 21 | 12  | 11 | 6   | 9 | 10  | 17 | 11  | 8 | 17  | 1  | 4   | 0 | 5   | 2  | 15  | 149   |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |    |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 2  | 2   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 1   | 0  | 1   | 0 | 0   | 0  | 5   | 11    |
| 3.51- 7.50  | 35 | 32  | 20 | 16  | 16 | 9   | 14 | 9   | 11 | 11  | 4  | 0   | 0 | 1   | 5  | 13  | 196   |
| 7.51-12.50  | 30 | 15  | 8  | 13  | 30 | 51  | 50 | 17  | 16 | 12  | 11 | 0   | 0 | 3   | 3  | 34  | 293   |
| 12.51-18.50 | 3  | 1   | 1  | 1   | 10 | 10  | 19 | 11  | 7  | 6   | 0  | 2   | 0 | 0   | 2  | 20  | 93    |
| 18.51-24.00 | 0  | 0   | 0  | 1   | 0  | 0   | 3  | 0   | 4  | 2   | 0  | 0   | 0 | 0   | 2  | 3   | 15    |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 3  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 3     |
| TOTAL       | 70 | 50  | 29 | 31  | 56 | 70  | 86 | 37  | 41 | 32  | 15 | 3   | 0 | 4   | 12 | 75  | 611   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 9/30/ 0

\*\*\* JUL-SEP 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S   | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0  | 1   | 0  | 0   | 0  | 0   | 1  | 0   | 2   | 0   | 0  | 1   | 0 | 1   | 1  | 0   | 7     |
| 3.51- 7.50  | 25 | 17  | 12 | 7   | 3  | 8   | 7  | 15  | 22  | 6   | 2  | 1   | 0 | 1   | 4  | 22  | 152   |
| 7.51-12.50  | 20 | 13  | 11 | 16  | 20 | 13  | 38 | 37  | 28  | 9   | 5  | 0   | 1 | 1   | 1  | 24  | 237   |
| 12.51-18.50 | 1  | 1   | 0  | 1   | 8  | 4   | 33 | 38  | 35  | 7   | 2  | 0   | 0 | 0   | 3  | 5   | 138   |
| 18.51-24.00 | 1  | 1   | 0  | 1   | 0  | 0   | 3  | 11  | 18  | 2   | 0  | 0   | 0 | 0   | 0  | 4   | 41    |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 2   | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 3     |
| TOTAL       | 47 | 33  | 23 | 25  | 31 | 25  | 82 | 101 | 107 | 24  | 9  | 2   | 1 | 3   | 9  | 56  | 578   |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 3  | 2   | 1  | 0   | 0 | 0   | 0  | 1   | 5  | 6   | 4  | 2   | 0 | 3   | 3  | 5   | 35    |
| 3.51- 7.50  | 11 | 6   | 4  | 2   | 0 | 0   | 1  | 13  | 9  | 8   | 4  | 0   | 0 | 0   | 5  | 21  | 84    |
| 7.51-12.50  | 0  | 1   | 0  | 1   | 0 | 1   | 0  | 7   | 16 | 6   | 5  | 1   | 2 | 1   | 3  | 2   | 46    |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 3   | 3  | 1   | 2  | 0   | 0 | 0   | 0  | 0   | 9     |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 1   | 0  | 0   | 1     |
| TOTAL       | 15 | 9   | 5  | 3   | 0 | 1   | 1  | 24  | 33 | 21  | 15 | 3   | 2 | 5   | 11 | 28  | 176   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-SEP 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/1/0 - 9/30/0

\*\*\* JUL-SEP 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | MNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 2 | 2   | 0  | 1   | 0 | 0   | 1  | 4   | 3  | 5   | 5  | 2   | 2 | 1   | 7  | 5   | 40    |
| 3.51- 7.50  | 2 | 1   | 1  | 0   | 0 | 0   | 3  | 14  | 6  | 4   | 3  | 1   | 0 | 2   | 4  | 7   | 48    |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 3   | 4  | 2   | 1  | 1   | 0 | 0   | 1  | 1   | 13    |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1  | 0   | 1  | 1   | 0 | 0   | 0  | 0   | 3     |
| 18.51-24.00 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| TOTAL       | 4 | 3   | 1  | 1   | 0 | 0   | 4  | 21  | 14 | 11  | 10 | 5   | 2 | 3   | 12 | 13  | 104   |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E   | ESE | SE  | SSE | S   | SSW | SW | WSW | W | MNW | NW | NNW | TOTAL |
|-------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |     |     |    |     |     |     |     |     |     |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 8   | 9   | 1  | 1   | 0   | 0   | 4   | 5   | 10  | 13  | 9  | 6   | 2 | 5   | 11 | 15  | 99    |
| 3.51- 7.50  | 91  | 69  | 47 | 27  | 21  | 20  | 28  | 55  | 51  | 34  | 17 | 6   | 0 | 6   | 19 | 73  | 564   |
| 7.51-12.50  | 71  | 37  | 24 | 38  | 59  | 81  | 108 | 88  | 77  | 49  | 26 | 3   | 3 | 5   | 11 | 87  | 767   |
| 12.51-18.50 | 10  | 3   | 1  | 9   | 26  | 41  | 85  | 90  | 75  | 26  | 8  | 7   | 0 | 2   | 6  | 45  | 434   |
| 18.51-24.00 | 2   | 1   | 0  | 2   | 0   | 0   | 13  | 15  | 37  | 6   | 0  | 0   | 0 | 3   | 4  | 10  | 93    |
| >24.00      | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 13  | 0   | 0  | 0   | 0 | 1   | 0  | 1   | 15    |
| TOTAL       | 182 | 119 | 73 | 77  | 106 | 142 | 238 | 253 | 263 | 128 | 60 | 22  | 5 | 22  | 51 | 231 | 1972  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-1.0M DELTA-T JUL-SEP 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/1/0 - 9/30/0

\*\*\* JUL-SEP 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 1972

TOTAL NUMBER OF MISSING OBSERVATIONS: 236

PERCENT DATA RECOVERY FOR THIS PERIOD: 89.3 %

MEAN WIND SPEED FOR THIS PERIOD: 10.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

|  | A     | B    | C    | D     | E     | F    | G    |
|--|-------|------|------|-------|-------|------|------|
|  | 11.36 | 6.59 | 7.56 | 30.98 | 29.31 | 8.92 | 5.27 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE | ENE | E   | ESE | SE  | SSE | S   | SSW | SW | WSW | W | WNW | NW | NNW | CALM |
|-------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|---|-----|----|-----|------|
| A     | 15  | 6   | 1  | 5   | 6   | 17  | 27  | 43  | 39  | 16  | 8  | 4   | 0 | 1   | 4  | 32  | 0    |
| B     | 10  | 6   | 3  | 6   | 4   | 19  | 21  | 16  | 21  | 7   | 2  | 1   | 0 | 1   | 1  | 12  | 0    |
| C     | 21  | 12  | 11 | 6   | 9   | 10  | 17  | 11  | 8   | 17  | 1  | 4   | 0 | 5   | 2  | 15  | 0    |
| D     | 70  | 50  | 29 | 31  | 56  | 70  | 86  | 37  | 41  | 32  | 15 | 3   | 0 | 4   | 12 | 75  | 0    |
| E     | 47  | 33  | 23 | 25  | 31  | 25  | 82  | 101 | 107 | 24  | 9  | 2   | 1 | 3   | 9  | 56  | 0    |
| F     | 15  | 9   | 5  | 3   | 0   | 1   | 1   | 24  | 33  | 21  | 15 | 3   | 2 | 5   | 11 | 28  | 0    |
| G     | 4   | 3   | 1  | 1   | 0   | 0   | 4   | 21  | 14  | 11  | 10 | 5   | 2 | 3   | 12 | 13  | 0    |
| TOTAL | 182 | 119 | 73 | 77  | 106 | 142 | 238 | 253 | 263 | 128 | 60 | 22  | 5 | 22  | 51 | 231 | 0    |

**JFDs of 10-Meter Wind vs. Delta T**

October-December 2000



PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 10/ 1/ 0 - 12/31/ 0

\*\*\* OCT-DEC 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 1 | 2   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 1   | 0  | 1   | 0 | 0   | 0  | 0   | 5     |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 0 | 0   | 1  | 0   | 0  | 3   | 0  | 0   | 0 | 0   | 0  | 0   | 4     |
| 12.51-18.50 | 1 | 0   | 0  | 0   | 0 | 0   | 4  | 2   | 5  | 1   | 0  | 0   | 0 | 1   | 0  | 1   | 14    |
| 18.51-24.00 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 2  | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 4     |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 5  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 7     |
| TOTAL       | 2 | 2   | 0  | 0   | 0 | 0   | 5  | 3   | 12 | 5   | 0  | 1   | 0 | 0   | 0  | 4   | 34    |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1 | 1   | 0  | 1   | 0 | 0   | 0  | 0   | 3     |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 0 | 0   | 1  | 0   | 1 | 2   | 0  | 0   | 0 | 0   | 0  | 0   | 4     |
| 12.51-18.50 | 3 | 0   | 0  | 0   | 0 | 0   | 1  | 2   | 3 | 3   | 2  | 0   | 0 | 0   | 1  | 2   | 17    |
| 18.51-24.00 | 1 | 0   | 0  | 0   | 0 | 1   | 0  | 0   | 2 | 3   | 0  | 0   | 0 | 0   | 1  | 3   | 11    |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1 | 2   | 0  | 0   | 0 | 0   | 1  | 0   | 4     |
| TOTAL       | 4 | 0   | 0  | 0   | 0 | 1   | 2  | 2   | 8 | 11  | 2  | 1   | 0 | 0   | 3  | 5   | 39    |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 10/ 1/ 0 - 12/31/ 0

\*\*\* OCT-DEC 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0  | 0   | 0  | 0   | 0 | 1   | 1  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 3     |
| 7.51-12.50  | 9  | 1   | 0  | 0   | 0 | 0   | 2  | 1   | 6  | 8   | 3  | 1   | 1 | 0   | 1  | 1   | 34    |
| 12.51-18.50 | 2  | 0   | 1  | 0   | 0 | 0   | 1  | 6   | 9  | 1   | 2  | 0   | 0 | 0   | 2  | 5   | 29    |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0 | 0   | 1  | 1   | 6  | 1   | 0  | 0   | 1 | 0   | 1  | 3   | 15    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 2  | 2   | 0  | 0   | 0 | 0   | 6  | 0   | 11    |
| TOTAL       | 12 | 1   | 1  | 0   | 0 | 1   | 5  | 9   | 24 | 12  | 5  | 1   | 2 | 0   | 10 | 9   | 92    |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE  | SSE | S  | SSW | SW | WSW | W  | WNW | NW  | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|-----|-----|-------|
| CALM        | 0  | 0   | 0  | 0   | 0  | 0   | 0   | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0   | 0   | 0     |
| 1.01- 3.50  | 0  | 3   | 0  | 1   | 2  | 1   | 2   | 1   | 1  | 0   | 0  | 0   | 0  | 0   | 0   | 0   | 11    |
| 3.51- 7.50  | 24 | 24  | 22 | 15  | 5  | 9   | 15  | 22  | 13 | 5   | 3  | 6   | 6  | 4   | 7   | 8   | 188   |
| 7.51-12.50  | 43 | 10  | 7  | 18  | 21 | 30  | 49  | 23  | 22 | 17  | 6  | 8   | 14 | 17  | 20  | 33  | 338   |
| 12.51-18.50 | 19 | 4   | 0  | 0   | 1  | 23  | 39  | 33  | 28 | 9   | 1  | 6   | 35 | 24  | 38  | 33  | 293   |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0  | 6   | 5   | 19  | 16 | 2   | 0  | 11  | 22 | 19  | 39  | 24  | 164   |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 0   | 0   | 6   | 2  | 1   | 1  | 1   | 2  | 15  | 65  | 15  | 108   |
| TOTAL       | 87 | 41  | 29 | 34  | 29 | 69  | 110 | 104 | 82 | 34  | 11 | 32  | 79 | 79  | 169 | 113 | 1102  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 10/ 1/ 0 - 12/31/ 0

\*\*\* OCT-DEC 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|----|-----|-------|
| 1.01- 3.50  | 2  | 1   | 0  | 0   | 0 | 0   | 1  | 0   | 1  | 0   | 1  | 1   | 0  | 0    | 2  | 2   | 0     |
| 3.51- 7.50  | 12 | 8   | 4  | 2   | 4 | 3   | 9  | 13  | 9  | 4   | 3  | 1   | 4  | 5    | 10 | 11  | 11    |
| 7.51-12.50  | 11 | 2   | 0  | 0   | 1 | 3   | 22 | 17  | 8  | 12  | 5  | 1   | 8  | 13   | 15 | 19  | 137   |
| 12.51-18.50 | 0  | 0   | 1  | 1   | 0 | 2   | 9  | 15  | 19 | 8   | 15 | 15  | 13 | 14   | 22 | 14  | 148   |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 1   | 0  | 18  | 4  | 1   | 1  | 5   | 13 | 9    | 10 | 1   | 63    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 7   | 1  | 0   | 0  | 0   | 10 | 4    | 6  | 8   | 36    |
| TOTAL       | 25 | 11  | 5  | 3   | 5 | 9   | 41 | 70  | 42 | 25  | 25 | 23  | 48 | 45   | 65 | 55  | 497   |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|----|-----|-------|
| 1.01- 3.50  | 4  | 3   | 0  | 1   | 0 | 0   | 1  | 1   | 7  | 7   | 3  | 3   | 1  | 4    | 6  | 4   | 45    |
| 3.51- 7.50  | 8  | 4   | 1  | 0   | 1 | 2   | 6  | 22  | 27 | 4   | 6  | 5   | 9  | 2    | 7  | 14  | 118   |
| 7.51-12.50  | 2  | 0   | 0  | 0   | 0 | 0   | 4  | 2   | 19 | 12  | 1  | 1   | 1  | 0    | 8  | 6   | 56    |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 9  | 2   | 1  | 2   | 5  | 3    | 1  | 0   | 24    |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 1   | 1  | 3   | 2  | 0    | 0  | 0   | 7     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0    | 0  | 0   | 0     |
| TOTAL       | 14 | 7   | 1  | 1   | 1 | 2   | 11 | 26  | 62 | 26  | 12 | 14  | 18 | 9    | 22 | 24  | 250   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-10M DELTA-T OCT-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 10/ 1/ 0 - 12/31/ 0

\*\*\* OCT-DEC 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 4 | 4   | 1  | 0   | 0 | 3   | 5  | 11  | 11 | 4   | 1  | 3   | 3 | 0   | 1  | 4   | 55    |
| 3.51- 7.50  | 5 | 1   | 0  | 0   | 2 | 1   | 6  | 19  | 15 | 2   | 4  | 1   | 3 | 0   | 2  | 5   | 66    |
| 7.51-12.50  | 0 | 0   | 1  | 0   | 0 | 0   | 0  | 1   | 0  | 0   | 0  | 0   | 2 | 1   | 0  | 0   | 6     |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 1 | 0   | 0  | 0   | 1     |
| 18.51-24.00 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| TOTAL       | 9 | 5   | 2  | 0   | 2 | 4   | 11 | 31  | 27 | 6   | 5  | 4   | 9 | 1   | 3  | 9   | 128   |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W   | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|
| CALM        |     |     |    |     |    |     |     |     |     |     |    |     |     |     |     |     | 0     |
| 1.01- 3.50  | 10  | 11  | 1  | 2   | 2  | 4   | 9   | 13  | 20  | 11  | 5  | 7   | 4   | 4   | 9   | 10  | 122   |
| 3.51- 7.50  | 50  | 39  | 27 | 17  | 12 | 16  | 37  | 76  | 66  | 17  | 16 | 15  | 22  | 11  | 26  | 38  | 485   |
| 7.51-12.50  | 65  | 13  | 8  | 18  | 22 | 33  | 79  | 44  | 57  | 54  | 15 | 11  | 26  | 31  | 44  | 59  | 579   |
| 12.51-18.50 | 25  | 4   | 2  | 1   | 1  | 25  | 54  | 59  | 73  | 24  | 21 | 23  | 54  | 41  | 64  | 55  | 526   |
| 18.51-24.00 | 3   | 0   | 0  | 0   | 0  | 8   | 6   | 38  | 30  | 8   | 2  | 19  | 38  | 28  | 51  | 33  | 264   |
| >24.00      | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 15  | 11  | 5   | 1  | 1   | 12  | 19  | 78  | 24  | 166   |
| TOTAL       | 153 | 67  | 38 | 36  | 37 | 86  | 185 | 245 | 257 | 119 | 60 | 76  | 156 | 134 | 272 | 219 | 2142  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T OCT-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 10/ 1/ 0 - 12/31/ 0

\*\*\* OCT-DEC 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2142

TOTAL NUMBER OF MISSING OBSERVATIONS: 66

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.0 %

MEAN WIND SPEED FOR THIS PERIOD: 12.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

| A    | B    | C    | D     | E     | F     | G    |
|------|------|------|-------|-------|-------|------|
| 1.59 | 1.82 | 4.30 | 51.45 | 23.20 | 11.67 | 5.98 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W   | WNW | NW  | NNW | CALM |
|-------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------|
| A     | 2   | 2   | 0  | 0   | 0  | 0   | 5   | 3   | 12  | 5   | 0  | 1   | 0   | 0   | 0   | 4   | 0    |
| B     | 4   | 0   | 0  | 0   | 0  | 1   | 2   | 2   | 8   | 11  | 2  | 1   | 0   | 0   | 3   | 5   | 0    |
| C     | 12  | 1   | 1  | 0   | 0  | 1   | 5   | 9   | 24  | 12  | 5  | 1   | 2   | 0   | 10  | 9   | 0    |
| D     | 87  | 41  | 29 | 34  | 29 | 69  | 110 | 104 | 82  | 34  | 11 | 32  | 79  | 79  | 169 | 113 | 0    |
| E     | 25  | 11  | 5  | 3   | 5  | 9   | 41  | 70  | 42  | 25  | 25 | 23  | 48  | 45  | 65  | 55  | 0    |
| F     | 14  | 7   | 1  | 1   | 1  | 2   | 11  | 26  | 62  | 26  | 12 | 14  | 18  | 9   | 22  | 24  | 0    |
| G     | 9   | 5   | 2  | 0   | 2  | 4   | 11  | 31  | 27  | 6   | 5  | 4   | 9   | 1   | 3   | 9   | 0    |
| TOTAL | 153 | 67  | 38 | 38  | 37 | 86  | 185 | 245 | 257 | 119 | 60 | 76  | 156 | 134 | 272 | 219 | 0    |

**JFDs of 10-Meter Wind vs. Delta T**

July-December 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

\*\*\* JUL-DEC 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNN | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0  | 1   | 0  | 0   | 0 | 0   | 1  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 4  | 7   | 0  | 0   | 1 | 3   | 1  | 1   | 0  | 3   | 3  | 1   | 0 | 0   | 1  | 8   | 33    |
| 7.51-12.50  | 9  | 0   | 1  | 2   | 3 | 7   | 6  | 13  | 8  | 11  | 2  | 0   | 0 | 0   | 1  | 11  | 74    |
| 12.51-18.50 | 4  | 0   | 0  | 3   | 2 | 7   | 19 | 27  | 24 | 7   | 3  | 4   | 0 | 1   | 1  | 12  | 114   |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 5  | 4   | 12 | 0   | 0  | 0   | 0 | 0   | 1  | 4   | 26    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 7  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 9     |
| TOTAL       | 17 | 8   | 1  | 5   | 6 | 17  | 32 | 46  | 51 | 21  | 8  | 5   | 0 | 1   | 4  | 36  | 258   |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNN | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0  | 1   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 4  | 4   | 2  | 0   | 0 | 0   | 0  | 1   | 3  | 1   | 0  | 2   | 0 | 0   | 0  | 0   | 17    |
| 7.51-12.50  | 3  | 1   | 1  | 4   | 1 | 5   | 10 | 6   | 4  | 7   | 2  | 0   | 0 | 0   | 1  | 7   | 52    |
| 12.51-18.50 | 6  | 0   | 0  | 2   | 3 | 14  | 12 | 11  | 10 | 4   | 2  | 0   | 0 | 0   | 1  | 6   | 71    |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0 | 1   | 1  | 0   | 6  | 4   | 0  | 0   | 0 | 1   | 1  | 4   | 19    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 6  | 2   | 0  | 0   | 0 | 0   | 1  | 0   | 9     |
| TOTAL       | 14 | 6   | 3  | 6   | 4 | 20  | 23 | 18  | 29 | 18  | 4  | 2   | 0 | 1   | 4  | 17  | 169   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

\*\*\* JUL-DEC 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 1  | 0   | 0  | 0   | 0 | 0   | 1  | 0   | 0  | 1   | 0  | 0   | 0 | 0   | 0  | 0   | 3     |
| 3.51- 7.50  | 11 | 4   | 8  | 2   | 1 | 1   | 3  | 2   | 2  | 3   | 1  | 3   | 0 | 2   | 0  | 2   | 45    |
| 7.51-12.50  | 18 | 8   | 3  | 2   | 5 | 4   | 8  | 6   | 8  | 15  | 3  | 2   | 1 | 0   | 2  | 9   | 94    |
| 12.51-18.50 | 2  | 1   | 1  | 2   | 3 | 6   | 8  | 10  | 12 | 6   | 2  | 0   | 0 | 1   | 2  | 10  | 66    |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0 | 0   | 2  | 1   | 7  | 2   | 0  | 0   | 1 | 2   | 2  | 3   | 21    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 3  | 2   | 0  | 0   | 0 | 0   | 6  | 0   | 12    |
| TOTAL       | 33 | 13  | 12 | 6   | 9 | 11  | 22 | 20  | 32 | 29  | 6  | 5   | 2 | 5   | 12 | 24  | 241   |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-------|
| CALM        |     |     |    |     |    |     |     |     |     |     |    |     |    |     |     |     | 0     |
| 1.01- 3.50  | 2   | 5   | 0  | 1   | 2  | 1   | 2   | 1   | 1   | 1   | 0  | 1   | 0  | 0   | 0   | 5   | 22    |
| 3.51- 7.50  | 59  | 56  | 42 | 31  | 21 | 18  | 29  | 31  | 24  | 16  | 7  | 6   | 6  | 5   | 12  | 21  | 384   |
| 7.51-12.50  | 73  | 25  | 15 | 31  | 51 | 81  | 99  | 40  | 38  | 29  | 17 | 8   | 14 | 20  | 23  | 67  | 631   |
| 12.51-18.50 | 22  | 5   | 1  | 1   | 11 | 33  | 58  | 44  | 35  | 15  | 1  | 8   | 35 | 24  | 40  | 53  | 386   |
| 18.51-24.00 | 1   | 0   | 0  | 0   | 0  | 6   | 8   | 19  | 20  | 4   | 0  | 11  | 22 | 19  | 41  | 27  | 179   |
| >24.00      | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 6   | 5   | 1   | 1  | 1   | 2  | 15  | 65  | 15  | 111   |
| TOTAL       | 157 | 91  | 58 | 65  | 85 | 139 | 196 | 141 | 123 | 66  | 26 | 35  | 79 | 83  | 181 | 188 | 1713  |



PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-1.0M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

\*\*\* JUL-DEC 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|------|----|-----|-------|
| 1.01- 3.50  | 2  | 2   | 0  | 0   | 0  | 0   | 2   | 0   | 3   | 0   | 1  | 2   | 0  | 1    | 3  | 2   | 18    |
| 3.51- 7.50  | 37 | 25  | 16 | 9   | 7  | 11  | 16  | 28  | 31  | 10  | 5  | 2   | 4  | 6    | 14 | 33  | 254   |
| 7.51-12.50  | 31 | 15  | 11 | 16  | 21 | 16  | 60  | 54  | 36  | 21  | 10 | 1   | 9  | 14   | 16 | 43  | 374   |
| 12.51-18.50 | 1  | 1   | 1  | 2   | 8  | 6   | 42  | 53  | 54  | 15  | 17 | 15  | 13 | 14   | 25 | 19  | 286   |
| 18.51-24.00 | 1  | 1   | 0  | 1   | 0  | 1   | 3   | 29  | 22  | 3   | 1  | 5   | 13 | 9    | 10 | 5   | 104   |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 0   | 0   | 7   | 3   | 0   | 0  | 0   | 10 | 4    | 6  | 9   | 39    |
| TOTAL       | 72 | 44  | 28 | 28  | 36 | 34  | 123 | 171 | 149 | 49  | 34 | 25  | 49 | 48   | 74 | 111 | 1075  |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|----|-----|-------|
| 1.01- 3.50  | 7  | 5   | 1  | 1   | 0 | 0   | 1  | 2   | 12 | 13  | 7  | 5   | 1  | 7    | 9  | 9   | 80    |
| 3.51- 7.50  | 19 | 10  | 5  | 2   | 1 | 2   | 7  | 35  | 36 | 12  | 10 | 5   | 9  | 2    | 12 | 35  | 202   |
| 7.51-12.50  | 2  | 1   | 0  | 1   | 0 | 1   | 4  | 9   | 35 | 18  | 6  | 2   | 3  | 1    | 11 | 8   | 102   |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 4   | 12 | 3   | 3  | 2   | 5  | 3    | 1  | 0   | 33    |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1  | 1   | 1  | 3   | 2  | 0    | 0  | 0   | 8     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 1    | 0  | 0   | 1     |
| TOTAL       | 29 | 16  | 6  | 4   | 1 | 3   | 12 | 50  | 95 | 47  | 27 | 17  | 20 | 14   | 33 | 52  | 426   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

\*\*\* JUL-DEC 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | MNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |    |     |    |     | 0     |
| 1.01- 3.50  | 6  | 6   | 1  | 1   | 0 | 3   | 6  | 15  | 14 | 9   | 6  | 5   | 5  | 1   | 8  | 9   | 95    |
| 3.51- 7.50  | 7  | 2   | 1  | 0   | 2 | 1   | 9  | 33  | 21 | 6   | 7  | 2   | 3  | 2   | 6  | 12  | 114   |
| 7.51-12.50  | 0  | 0   | 1  | 0   | 0 | 0   | 0  | 4   | 5  | 2   | 1  | 1   | 2  | 1   | 1  | 1   | 19    |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1  | 0   | 1  | 1   | 1  | 0   | 0  | 0   | 4     |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0     |
| TOTAL       | 13 | 8   | 3  | 1   | 2 | 4   | 15 | 52  | 41 | 17  | 15 | 9   | 11 | 4   | 15 | 22  | 232   |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE  | ENE | E   | ESE | SE  | SSE | S   | SSW | SW  | WSW | W   | MNW | NW  | NNW | TOTAL |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| CALM        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 0     |
| 1.01- 3.50  | 18  | 20  | 2   | 3   | 2   | 4   | 13  | 18  | 30  | 24  | 14  | 13  | 6   | 9   | 20  | 25  | 221   |
| 3.51- 7.50  | 141 | 108 | 74  | 44  | 33  | 36  | 65  | 131 | 117 | 51  | 33  | 21  | 22  | 17  | 45  | 111 | 1049  |
| 7.51-12.50  | 136 | 50  | 32  | 56  | 81  | 114 | 187 | 132 | 134 | 103 | 41  | 14  | 29  | 36  | 55  | 146 | 1346  |
| 12.51-18.50 | 35  | 7   | 3   | 10  | 27  | 66  | 139 | 149 | 148 | 50  | 29  | 30  | 54  | 43  | 70  | 100 | 960   |
| 18.51-24.00 | 5   | 1   | 0   | 2   | 0   | 8   | 19  | 53  | 67  | 14  | 2   | 19  | 38  | 31  | 55  | 43  | 357   |
| >24.00      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 15  | 24  | 5   | 1   | 1   | 12  | 20  | 78  | 25  | 181   |
| TOTAL       | 335 | 186 | 111 | 115 | 143 | 228 | 423 | 498 | 520 | 247 | 120 | 98  | 161 | 156 | 323 | 450 | 4114  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

\*\*\* JUL-DEC 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4114

TOTAL NUMBER OF MISSING OBSERVATIONS: 302

PERCENT DATA RECOVERY FOR THIS PERIOD: 93.2 %

MEAN WIND SPEED FOR THIS PERIOD: 11.4 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

|  | A    | B    | C    | D     | E     | F     | G    |
|--|------|------|------|-------|-------|-------|------|
|  | 6.27 | 4.11 | 5.86 | 41.64 | 26.13 | 10.35 | 5.64 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE  | ENE | E   | ESE | SE  | SSE | S   | SSW | SW  | WSW | W   | WNNW | NW  | NNW | CALM |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|
| A     | 17  | 8   | 1   | 5   | 6   | 17  | 32  | 46  | 51  | 21  | 8   | 5   | 0   | 1    | 4   | 36  | 0    |
| B     | 14  | 6   | 3   | 6   | 4   | 20  | 23  | 18  | 29  | 18  | 4   | 2   | 0   | 1    | 4   | 17  | 0    |
| C     | 33  | 13  | 12  | 6   | 9   | 11  | 22  | 20  | 32  | 29  | 6   | 5   | 2   | 5    | 12  | 24  | 0    |
| D     | 157 | 91  | 58  | 65  | 85  | 139 | 196 | 141 | 123 | 66  | 26  | 35  | 79  | 83   | 181 | 188 | 0    |
| E     | 72  | 44  | 28  | 28  | 36  | 34  | 123 | 171 | 149 | 49  | 34  | 25  | 49  | 48   | 74  | 111 | 0    |
| F     | 29  | 16  | 6   | 4   | 1   | 3   | 12  | 50  | 95  | 47  | 27  | 17  | 20  | 14   | 33  | 52  | 0    |
| G     | 13  | 8   | 3   | 1   | 2   | 4   | 15  | 52  | 41  | 17  | 15  | 9   | 11  | 4    | 15  | 22  | 0    |
| TOTAL | 335 | 186 | 111 | 115 | 143 | 228 | 423 | 498 | 520 | 247 | 120 | 98  | 161 | 156  | 323 | 450 | 0    |

**JFDs of 10-Meter Wind vs. Delta T**

January-December 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-1.0M DELTA-T JAN-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 12/31/ 0

\*\*\* JAN-DEC 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S   | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0  | 2   | 0  | 1   | 0  | 0   | 2  | 0   | 0   | 0   | 0  | 0   | 1 | 0   | 1  | 1   | 8     |
| 3.51- 7.50  | 6  | 12  | 3  | 4   | 7  | 9   | 3  | 4   | 5   | 8   | 5  | 2   | 1 | 1   | 5  | 9   | 84    |
| 7.51-12.50  | 25 | 3   | 3  | 2   | 5  | 11  | 10 | 14  | 10  | 16  | 3  | 2   | 1 | 1   | 11 | 21  | 138   |
| 12.51-18.50 | 21 | 1   | 1  | 3   | 2  | 9   | 20 | 68  | 51  | 13  | 7  | 5   | 1 | 4   | 10 | 29  | 245   |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0  | 0   | 8  | 20  | 39  | 6   | 0  | 0   | 2 | 1   | 3  | 9   | 88    |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 0   | 5  | 46  | 7   | 2   | 2  | 1   | 1 | 0   | 3  | 8   | 73    |
| TOTAL       | 52 | 18  | 7  | 10  | 14 | 29  | 43 | 111 | 151 | 50  | 17 | 10  | 7 | 7   | 33 | 77  | 636   |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| 1.01- 3.50  | 0  | 1   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| 3.51- 7.50  | 6  | 10  | 8  | 3   | 1  | 1   | 3  | 2   | 4  | 1   | 1  | 4   | 0 | 0   | 0  | 2   | 46    |
| 7.51-12.50  | 12 | 3   | 2  | 5   | 5  | 10  | 18 | 19  | 11 | 9   | 3  | 3   | 0 | 2   | 6  | 17  | 125   |
| 12.51-18.50 | 9  | 0   | 0  | 3   | 7  | 22  | 22 | 23  | 18 | 9   | 8  | 5   | 5 | 2   | 10 | 20  | 163   |
| 18.51-24.00 | 1  | 0   | 1  | 0   | 0  | 1   | 3  | 4   | 15 | 13  | 0  | 0   | 2 | 4   | 7  | 20  | 71    |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 0   | 1  | 11  | 5  | 5   | 0  | 1   | 0 | 0   | 5  | 8   | 31    |
| TOTAL       | 28 | 14  | 11 | 11  | 13 | 34  | 46 | 49  | 59 | 37  | 12 | 13  | 7 | 8   | 28 | 67  | 437   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 12/31/ 0

\*\*\* JAN-DEC 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| CALM        |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     | 0     |
| 1.01- 3.50  | 2  | 0   | 1  | 0   | 0  | 0   | 1  | 0   | 1  | 1   | 0  | 0   | 0  | 1   | 0  | 0   | 7     |
| 3.51- 7.50  | 14 | 9   | 10 | 2   | 4  | 1   | 6  | 12  | 4  | 8   | 1  | 5   | 2  | 2   | 1  | 6   | 87    |
| 7.51-12.50  | 32 | 13  | 4  | 5   | 7  | 11  | 17 | 13  | 21 | 21  | 5  | 11  | 6  | 3   | 11 | 24  | 204   |
| 12.51-18.50 | 4  | 2   | 1  | 3   | 7  | 12  | 16 | 19  | 19 | 28  | 8  | 6   | 5  | 7   | 12 | 17  | 166   |
| 18.51-24.00 | 1  | 1   | 0  | 0   | 0  | 0   | 2  | 7   | 16 | 11  | 3  | 3   | 2  | 8   | 5  | 8   | 67    |
| >24.00      | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 4   | 11 | 4   | 0  | 1   | 0  | 5   | 15 | 8   | 48    |
| TOTAL       | 53 | 25  | 16 | 10  | 18 | 24  | 42 | 55  | 72 | 73  | 17 | 26  | 15 | 26  | 44 | 63  | 579   |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE  | ENE | E   | ESE | SE  | SSE | S   | SSW | SW | WSW | W   | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|
| CALM        |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     | 0     |
| 1.01- 3.50  | 8   | 9   | 3   | 2   | 2   | 1   | 3   | 2   | 5   | 2   | 0  | 3   | 1   | 0   | 0   | 5   | 46    |
| 3.51- 7.50  | 89  | 87  | 59  | 53  | 34  | 41  | 50  | 52  | 34  | 26  | 10 | 15  | 9   | 13  | 20  | 39  | 631   |
| 7.51-12.50  | 115 | 48  | 33  | 55  | 106 | 126 | 142 | 64  | 63  | 53  | 33 | 19  | 22  | 37  | 62  | 94  | 1072  |
| 12.51-18.50 | 66  | 10  | 6   | 6   | 23  | 47  | 89  | 86  | 70  | 57  | 19 | 21  | 45  | 46  | 70  | 107 | 768   |
| 18.51-24.00 | 9   | 1   | 1   | 1   | 0   | 7   | 11  | 37  | 51  | 18  | 4  | 23  | 30  | 35  | 62  | 61  | 351   |
| >24.00      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 9   | 28  | 8   | 3  | 4   | 12  | 28  | 104 | 57  | 253   |
| TOTAL       | 287 | 155 | 102 | 117 | 165 | 222 | 295 | 250 | 251 | 164 | 69 | 85  | 119 | 159 | 318 | 363 | 3121  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 12/31/ 0

\*\*\* JAN-DEC 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-------|
| 1.01- 3.50  | 3   | 3   | 0  | 0   | 0  | 0   | 2   | 3   | 5   | 1   | 1  | 3   | 4  | 3   | 8   | 7   | 43    |
| 3.51- 7.50  | 60  | 34  | 30 | 14  | 11 | 15  | 24  | 51  | 60  | 23  | 9  | 5   | 5  | 10  | 20  | 57  | 428   |
| 7.51-12.50  | 57  | 21  | 11 | 26  | 32 | 30  | 84  | 101 | 76  | 34  | 18 | 4   | 12 | 24  | 24  | 72  | 626   |
| 12.51-18.50 | 12  | 1   | 1  | 3   | 14 | 21  | 59  | 116 | 111 | 43  | 29 | 21  | 21 | 27  | 34  | 36  | 549   |
| 18.51-24.00 | 2   | 1   | 0  | 1   | 0  | 2   | 12  | 59  | 51  | 16  | 3  | 13  | 20 | 22  | 25  | 10  | 237   |
| >24.00      | 0   | 0   | 0  | 0   | 0  | 1   | 4   | 17  | 20  | 8   | 0  | 3   | 13 | 9   | 31  | 20  | 126   |
| TOTAL       | 134 | 60  | 42 | 44  | 57 | 69  | 185 | 347 | 323 | 125 | 60 | 49  | 75 | 95  | 142 | 202 | 2009  |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S   | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|-------|
| 1.01- 3.50  | 15 | 6   | 1  | 2   | 0 | 1   | 2  | 9   | 24  | 19  | 11 | 10  | 3  | 9   | 12 | 24  | 148   |
| 3.51- 7.50  | 38 | 11  | 5  | 5   | 1 | 4   | 15 | 60  | 76  | 23  | 14 | 13  | 10 | 5   | 24 | 59  | 363   |
| 7.51-12.50  | 4  | 1   | 2  | 1   | 0 | 1   | 7  | 25  | 68  | 26  | 8  | 3   | 4  | 6   | 13 | 10  | 179   |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 2   | 0  | 6   | 22  | 8   | 5  | 2   | 8  | 4   | 1  | 3   | 61    |
| 18.51-24.00 | 1  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 3   | 1   | 1  | 5   | 6  | 1   | 0  | 0   | 18    |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0   | 0   | 0  | 2   | 1  | 1   | 1  | 0   | 5     |
| TOTAL       | 58 | 18  | 8  | 8   | 1 | 8   | 24 | 100 | 193 | 77  | 39 | 35  | 32 | 26  | 51 | 96  | 774   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-1.0M DELTA-T JAN-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 12/31/ 0

\*\*\* JAN-DEC 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNN | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| 1.01- 3.50  | 11 | 9   | 1  | 1   | 0 | 6   | 13 | 31  | 19 | 15  | 9  | 8   | 6  | 3   | 14 | 14  | 160   |
| 3.51- 7.50  | 19 | 5   | 2  | 1   | 2 | 1   | 16 | 56  | 37 | 9   | 8  | 5   | 4  | 4   | 11 | 27  | 207   |
| 7.51-12.50  | 1  | 0   | 1  | 0   | 0 | 0   | 0  | 6   | 8  | 2   | 1  | 1   | 3  | 3   | 2  | 2   | 30    |
| 12.51-18.50 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1  | 0   | 2  | 1   | 1  | 0   | 0  | 0   | 5     |
| 18.51-24.00 | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 1  | 0   | 0  | 0   | 1     |
| >24.00      | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0     |
| TOTAL       | 31 | 14  | 4  | 2   | 2 | 7   | 29 | 93  | 65 | 26  | 20 | 15  | 15 | 10  | 27 | 43  | 403   |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

| SPEED (MPH) | N   | NNE | NE  | ENE | E   | ESE | SE  | SSE  | S    | SSW | SW  | WSW | W   | WNN | NW  | NNW | TOTAL |
|-------------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-------|
| 1.01- 3.50  | 39  | 30  | 6   | 6   | 2   | 8   | 23  | 45   | 54   | 38  | 21  | 24  | 15  | 16  | 35  | 51  | 413   |
| 3.51- 7.50  | 232 | 168 | 117 | 82  | 60  | 72  | 117 | 237  | 220  | 98  | 48  | 49  | 31  | 35  | 81  | 199 | 1846  |
| 7.51-12.50  | 246 | 89  | 56  | 94  | 155 | 189 | 278 | 242  | 257  | 161 | 71  | 43  | 48  | 76  | 129 | 240 | 2374  |
| 12.51-18.50 | 112 | 14  | 9   | 18  | 53  | 113 | 206 | 318  | 292  | 158 | 78  | 61  | 86  | 90  | 137 | 212 | 1957  |
| 18.51-24.00 | 14  | 3   | 2   | 2   | 0   | 10  | 36  | 127  | 175  | 65  | 11  | 44  | 63  | 71  | 102 | 108 | 833   |
| >24.00      | 0   | 0   | 0   | 0   | 0   | 1   | 4   | 36   | 116  | 32  | 5   | 12  | 27  | 43  | 152 | 101 | 536   |
| TOTAL       | 643 | 304 | 190 | 202 | 270 | 393 | 664 | 1005 | 1114 | 552 | 234 | 233 | 270 | 331 | 643 | 911 | 7959  |



PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 12/31/ 0

\*\*\* JAN-DEC 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS  
 WIND MEASURED AT: 10.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 8784

TOTAL NUMBER OF VALID OBSERVATIONS: 7959

TOTAL NUMBER OF MISSING OBSERVATIONS: 825

PERCENT DATA RECOVERY FOR THIS PERIOD: 90.6 %

MEAN WIND SPEED FOR THIS PERIOD: 12.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

|  | A    | B    | C    | D     | E     | F    | G    |
|--|------|------|------|-------|-------|------|------|
|  | 7.99 | 5.49 | 7.27 | 39.21 | 25.24 | 9.72 | 5.06 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE  | ENE | E   | ESE | SE  | SSE  | S    | SSW | SW  | WSW | W   | WNNW | NW  | NNW | CALM |
|-------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|------|-----|-----|------|
| A     | 52  | 18  | 7   | 10  | 14  | 29  | 43  | 111  | 151  | 50  | 17  | 10  | 7   | 7    | 33  | 77  | 0    |
| B     | 28  | 14  | 11  | 11  | 13  | 34  | 46  | 49   | 59   | 37  | 12  | 13  | 7   | 8    | 28  | 67  | 0    |
| C     | 53  | 25  | 16  | 10  | 18  | 24  | 42  | 55   | 72   | 73  | 17  | 26  | 15  | 26   | 44  | 63  | 0    |
| D     | 287 | 155 | 102 | 117 | 165 | 222 | 295 | 250  | 251  | 164 | 69  | 85  | 119 | 159  | 318 | 363 | 0    |
| E     | 134 | 60  | 42  | 44  | 57  | 69  | 185 | 347  | 323  | 125 | 60  | 49  | 75  | 95   | 142 | 202 | 0    |
| F     | 58  | 18  | 8   | 8   | 1   | 8   | 24  | 100  | 193  | 77  | 39  | 35  | 32  | 26   | 51  | 96  | 0    |
| G     | 31  | 14  | 4   | 2   | 2   | 7   | 29  | 93   | 65   | 26  | 20  | 15  | 15  | 10   | 27  | 43  | 0    |
| TOTAL | 643 | 304 | 190 | 202 | 270 | 393 | 664 | 1005 | 1114 | 552 | 234 | 233 | 270 | 331  | 643 | 911 | 0    |

**Stability Classes by Hour of Day**

**10-Meter Wind vs. Delta T**

July-December 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 1.0M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

| YR | MN | DY | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |    |    | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0  | 7  | 1  | E                  | F | E | E | E | E | F | E | D | D  | D  | D  | B  | B  | A  | A  | C  | D  | D  | E  | E  | E  | E  | E  |
| 0  | 7  | 2  | E                  | F | E | E | E | E | F | E | D | D  | D  | D  | B  | B  | A  | A  | C  | D  | D  | E  | E  | E  | E  | E  |
| 0  | 7  | 3  | D                  | C | D | D | D | D | A | - | - | -  | -  | -  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 4  | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 5  | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 6  | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 7  | D                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 8  | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 9  | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 10 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 11 | D                  | D | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 12 | D                  | D | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 13 | G                  | G | F | F | G | G | F | E | D | D  | D  | D  | C  | C  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 14 | G                  | F | G | G | G | F | D | D | D | D  | D  | D  | C  | C  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 15 | F                  | E | E | E | E | E | D | D | D | D  | D  | D  | C  | C  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 16 | D                  | E | E | E | E | E | D | D | D | D  | D  | D  | C  | C  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 17 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | C  | C  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 18 | D                  | D | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 19 | E                  | D | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 20 | F                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 21 | E                  | F | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 22 | G                  | F | E | E | E | E | D | D | D | D  | D  | D  | C  | C  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 23 | G                  | F | F | F | E | E | D | D | D | D  | D  | D  | C  | C  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 24 | F                  | E | E | E | E | E | D | D | D | D  | D  | D  | C  | C  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 25 | E                  | D | E | E | E | E | D | D | D | D  | D  | D  | A  | A  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 26 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | A  | A  | A  | A  | A  | C  | C  | D  | D  | D  | D  | D  |
| 0  | 7  | 27 | D                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 28 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 29 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 30 | F                  | E | E | E | E | E | D | D | D | D  | D  | D  | C  | C  | C  | B  | E  | E  | D  | D  | D  | D  | D  | D  |
| 0  | 7  | 31 | F                  | G | F | F | F | F | E | D | D | D  | D  | D  | C  | C  | A  | A  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 1  | F                  | G | F | F | F | F | E | D | D | D  | D  | D  | C  | C  | A  | A  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 2  | F                  | G | F | F | F | F | E | D | D | D  | D  | D  | C  | C  | A  | A  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 3  | F                  | F | F | F | F | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 4  | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 5  | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 6  | G                  | G | F | F | F | F | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 7  | F                  | F | G | F | F | F | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 8  | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 9  | G                  | G | F | F | F | F | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 10 | F                  | F | F | F | F | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 11 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 12 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 13 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 8  | 14 | E                  | F | F | F | F | F | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

| YR MN DY | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0 8 15   | F                  | F | F | F | G | G | E | D | C | D  | C  | A  | A  | C  | D  | D  | D  | D  | D  | D  | E  | E  | E  | E  |
| 0 8 16   | E                  | E | F | F | G | D | D | C | B | A  | -  | A  | -  | A  | D  | D  | D  | D  | D  | D  | E  | F  | G  | F  |
| 0 8 17   | F                  | E | F | F | G | D | D | C | B | A  | A  | C  | C  | C  | A  | C  | C  | C  | C  | C  | D  | D  | D  | E  |
| 0 8 18   | A                  | A | A | A | A | A | A | A | A | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  |
| 0 8 19   | E                  | E | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | A  |
| 0 8 20   | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | A  |
| 0 8 21   | A                  | A | A | A | A | A | A | A | A | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  |
| 0 8 22   | B                  | A | A | A | B | E | E | D | D | D  | D  | C  | C  | C  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 8 23   | E                  | E | E | E | E | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 8 24   | E                  | E | D | B | C | C | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0 8 25   | D                  | E | F | F | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | A  |
| 0 8 26   | C                  | E | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | A  |
| 0 8 27   | A                  | A | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | A  |
| 0 8 28   | A                  | A | A | A | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | A  |
| 0 8 29   | D                  | D | A | A | D | E | D | D | C | B  | B  | C  | C  | A  | B  | C  | C  | D  | D  | D  | D  | D  | D  | A  |
| 0 8 30   | D                  | D | E | E | E | E | E | A | B | A  | A  | A  | A  | A  | B  | D  | E  | E  | E  | E  | E  | E  | E  | A  |
| 0 8 31   | F                  | F | F | F | E | E | F | E | D | D  | D  | B  | B  | B  | A  | D  | E  | E  | E  | E  | E  | E  | F  | F  |
| 0 9 1    | D                  | B | A | A | A | A | A | A | A | A  | A  | A  | A  | A  | B  | B  | B  | B  | B  | B  | B  | B  | B  | F  |
| 0 9 2    | E                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0 9 3    | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0 9 4    | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0 9 5    | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 9 6    | E                  | E | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 9 7    | E                  | E | E | E | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |
| 0 9 8    | F                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0 9 9    | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0 9 10   | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0 9 11   | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0 9 12   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0 9 13   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0 9 14   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0 9 15   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0 9 16   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0 9 17   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0 9 18   | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0 9 19   | E                  | E | E | E | E | E | E | E | E | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  | E  |
| 0 9 20   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| 0 9 21   | G                  | G | F | G | G | F | F | D | C | B  | A  | A  | A  | A  | A  | B  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 9 22   | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 9 23   | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 9 24   | C                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 9 25   | C                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0 9 26   | G                  | G | G | F | G | G | G | G | G | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  | G  |
| 0 9 27   | F                  | G | G | G | G | G | G | F | E | D  | D  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  | A  |
| 0 9 28   | G                  | G | G | G | G | G | G | F | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

| YR MN DY | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0 9 29   | E                  | E | E | E | E | E | E | E | D | D  | B  | C  | B  | B  | B  | D  | D  | E  | F  | F  | E  | E  | E  | E  |
| 0 9 30   | E                  | E | E | F | F | F | E | E | D | D  | B  | B  | B  | B  | B  | D  | D  | E  | F  | F  | E  | E  | E  | E  |
| 0 10 1   | E                  | E | F | F | F | F | E | D | D | D  | B  | C  | D  | D  | D  | D  | E  | F  | F  | F  | F  | G  | G  |    |
| 0 10 2   | G                  | G | F | E | E | E | F | E | D | D  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  |    |
| 0 10 3   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |    |
| 0 10 4   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |    |
| 0 10 5   | -                  | - | - | - | - | - | - | - | - | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |    |
| 0 10 6   | F                  | F | F | F | F | F | E | E | D | D  | C  | B  | B  | C  | B  | C  | D  | D  | E  | F  | F  | E  | E  |    |
| 0 10 7   | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 8   | E                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 9   | G                  | G | F | G | G | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 10  | G                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 11  | F                  | F | E | E | F | G | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 12  | E                  | E | E | E | E | E | E | E | D | C  | B  | A  | A  | A  | C  | B  | D  | D  | E  | E  | E  | E  | E  |    |
| 0 10 13  | E                  | E | E | E | E | E | E | E | D | C  | B  | A  | A  | A  | C  | B  | D  | D  | E  | E  | E  | E  | E  |    |
| 0 10 14  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 15  | D                  | D | E | E | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 16  | E                  | E | E | E | E | E | E | E | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 17  | E                  | E | E | E | E | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 18  | G                  | G | G | G | G | G | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 19  | F                  | G | F | G | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 20  | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 21  | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 22  | E                  | F | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 23  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 24  | E                  | E | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 25  | E                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 26  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 27  | E                  | E | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 28  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 29  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 10 30  | E                  | E | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 10 31  | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 11 1   | E                  | E | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 11 2   | F                  | E | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 11 3   | F                  | E | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 11 4   | G                  | G | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0 11 5   | F                  | E | E | E | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 11 6   | D                  | D | D | B | C | D | C | A | A | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 11 7   | E                  | E | E | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 11 8   | E                  | E | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 11 9   | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 11 10  | E                  | E | E | E | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 11 11  | D                  | E | E | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0 11 12  | E                  | E | E | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

| YR | MN | DY | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |    |    | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0  | 11 | 13 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 14 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 15 | F                  | E | F | F | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 16 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 17 | E                  | E | E | E | E | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 18 | E                  | F | E | F | F | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 19 | E                  | E | E | E | E | E | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 20 | E                  | D | D | D | D | D | D | C | C | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  | C  |    |
| 0  | 11 | 21 | G                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 11 | 22 | G                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 11 | 23 | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 11 | 24 | F                  | E | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 11 | 25 | G                  | G | G | G | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 11 | 26 | E                  | E | E | E | E | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 27 | E                  | F | F | G | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 11 | 28 | G                  | G | G | G | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 11 | 29 | E                  | E | E | E | E | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 11 | 30 | G                  | G | G | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 12 | 1  | F                  | F | E | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 12 | 2  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 3  | G                  | G | G | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 12 | 4  | E                  | E | E | E | E | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 5  | E                  | D | E | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 6  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 7  | E                  | E | F | E | E | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 12 | 8  | E                  | E | E | E | E | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 9  | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 10 | F                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 12 | 11 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 12 | E                  | E | E | E | E | E | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 13 | E                  | F | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 12 | 14 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 15 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 16 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 17 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 18 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 19 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 20 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 21 | E                  | E | F | F | F | F | F | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |
| 0  | 12 | 22 | E                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 23 | E                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 24 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 25 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 26 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  | D  |    |
| 0  | 12 | 27 | G                  | G | G | G | G | G | G | F | F | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  | F  |    |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JUL-DEC 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 7/ 1/ 0 - 12/31/ 0

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

|    |    | HOURLY STABILITIES |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |    | HOURS              |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| YR | MN | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 0  | 12 | E                  | E | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | E  | D  | D  | D  | D  | D  | D  | D  | D  |
| 0  | 12 | D                  | D | D | D | D | D | D | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | E  | E  | E  | D  | D  | D  |
| 0  | 12 | E                  | D | D | E | D | D | E | D | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | E  | E  | E  | F  | F  | F  |
| 0  | 12 | E                  | F | E | E | E | E | E | E | D | D  | D  | D  | D  | D  | D  | D  | D  | D  | E  | F  | F  | F  | F  | F  |

**JFDs of 100-Meter Wind vs. Delta T**

January-March 2000



PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | MNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| CALM        | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 18.51-24.00 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| >24.00      | 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     |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | MNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| CALM        | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 7.51-12.50  | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 18.51-24.00 | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 1  | 1   | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 3     |
| TOTAL       | 2 | 0   | 0  | 0   | 0 | 0   | 1  | 1   | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 5     |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0  | 0   | 0  | 1   | 0 | 1   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 3     |
| 7.51-12.50  | 0  | 1   | 1  | 0   | 0 | 0   | 0  | 1   | 0  | 1   | 0  | 0   | 0 | 0   | 0  | 0   | 4     |
| 12.51-18.50 | 11 | 1   | 0  | 0   | 0 | 1   | 0  | 0   | 1  | 2   | 0  | 0   | 0 | 0   | 0  | 2   | 18    |
| 18.51-24.00 | 4  | 0   | 0  | 0   | 0 | 0   | 3  | 0   | 2  | 5   | 0  | 0   | 0 | 1   | 1  | 16  | 32    |
| >24.00      | 2  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 12 | 3   | 1  | 0   | 0 | 0   | 0  | 6   | 24    |
| TOTAL       | 17 | 2   | 1  | 1   | 0 | 2   | 3  | 1   | 15 | 11  | 1  | 0   | 0 | 1   | 1  | 25  | 81    |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|-------|
| CALM        |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     | 0     |
| 1.01- 3.50  | 2   | 0   | 2  | 1   | 0  | 0   | 1  | 1   | 0  | 0   | 0  | 0   | 0  | 0   | 0   | 2   | 9     |
| 3.51- 7.50  | 9   | 12  | 10 | 4   | 3  | 4   | 3  | 7   | 2  | 1   | 2  | 5   | 2  | 2   | 2   | 5   | 73    |
| 7.51-12.50  | 18  | 8   | 15 | 16  | 32 | 33  | 17 | 6   | 5  | 13  | 7  | 10  | 3  | 5   | 11  | 18  | 217   |
| 12.51-18.50 | 39  | 24  | 14 | 12  | 17 | 34  | 15 | 2   | 17 | 40  | 19 | 4   | 3  | 6   | 29  | 38  | 313   |
| 18.51-24.00 | 20  | 7   | 5  | 3   | 5  | 18  | 19 | 13  | 14 | 19  | 11 | 15  | 7  | 11  | 23  | 22  | 212   |
| >24.00      | 47  | 3   | 0  | 0   | 0  | 7   | 10 | 17  | 37 | 13  | 7  | 9   | 11 | 26  | 51  | 74  | 312   |
| TOTAL       | 135 | 54  | 46 | 36  | 57 | 96  | 65 | 46  | 75 | 86  | 46 | 43  | 26 | 50  | 116 | 159 | 1136  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNN | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| CALM        |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0  | 1   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 1     |
| 3.51- 7.50  | 0  | 0   | 0  | 2   | 0  | 1   | 0  | 0   | 0  | 0   | 1  | 0   | 0  | 0   | 0  | 2   | 6     |
| 7.51-12.50  | 0  | 0   | 2  | 0   | 2  | 3   | 2  | 0   | 7  | 2   | 2  | 0   | 1  | 0   | 1  | 2   | 22    |
| 12.51-18.50 | 3  | 4   | 6  | 4   | 10 | 6   | 1  | 4   | 9  | 12  | 4  | 3   | 0  | 1   | 3  | 7   | 77    |
| 18.51-24.00 | 8  | 11  | 5  | 4   | 5  | 7   | 3  | 5   | 18 | 15  | 4  | 2   | 6  | 0   | 10 | 9   | 112   |
| >24.00      | 18 | 5   | 4  | 2   | 3  | 17  | 28 | 65  | 71 | 36  | 23 | 7   | 19 | 18  | 29 | 32  | 377   |
| TOTAL       | 29 | 20  | 17 | 12  | 20 | 34  | 35 | 74  | 98 | 70  | 34 | 12  | 26 | 19  | 43 | 52  | 595   |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNN | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |    |     |    |     |    |     |    |     | 0     |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 1 | 1   | 0  | 2   | 1 | 0   | 0  | 2   | 0  | 0   | 1  | 1   | 0  | 1   | 2  | 0   | 12    |
| 7.51-12.50  | 1 | 1   | 4  | 2   | 2 | 4   | 1  | 1   | 3  | 1   | 3  | 1   | 3  | 1   | 1  | 1   | 30    |
| 12.51-18.50 | 1 | 1   | 0  | 3   | 2 | 6   | 5  | 4   | 4  | 9   | 6  | 3   | 2  | 4   | 1  | 1   | 52    |
| 18.51-24.00 | 1 | 0   | 0  | 2   | 1 | 2   | 2  | 3   | 10 | 9   | 12 | 8   | 2  | 1   | 4  | 1   | 58    |
| >24.00      | 2 | 0   | 0  | 0   | 0 | 1   | 5  | 19  | 15 | 11  | 6  | 11  | 16 | 11  | 8  | 5   | 105   |
| TOTAL       | 6 | 3   | 4  | 9   | 6 | 13  | 13 | 29  | 32 | 30  | 28 | 19  | 23 | 18  | 16 | 8   | 257   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 1 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| 7.51-12.50  | 1 | 0   | 0  | 0   | 1 | 1   | 2  | 0   | 0  | 4   | 2  | 0   | 0 | 0   | 0  | 0   | 11    |
| 12.51-18.50 | 2 | 0   | 0  | 0   | 0 | 4   | 4  | 0   | 0  | 4   | 0  | 0   | 0 | 1   | 0  | 1   | 16    |
| 18.51-24.00 | 0 | 0   | 0  | 0   | 0 | 0   | 3  | 5   | 4  | 0   | 3  | 1   | 0 | 3   | 2  | 0   | 21    |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 7  | 0   | 1  | 1   | 1 | 3   | 0  | 0   | 15    |
| TOTAL       | 3 | 0   | 0  | 0   | 2 | 5   | 9  | 7   | 11 | 8   | 6  | 2   | 1 | 7   | 2  | 1   | 64    |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW  | WSW | W  | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-------|
| CALM        | 2   | 0   | 2  | 1   | 0  | 0   | 2   | 1   | 0   | 0   | 0   | 0   | 0  | 0   | 0   | 2   | 10    |
| 1.01- 3.50  | 10  | 13  | 10 | 9   | 5  | 6   | 3   | 9   | 2   | 1   | 4   | 6   | 2  | 3   | 4   | 8   | 95    |
| 3.51- 7.50  | 21  | 10  | 22 | 18  | 37 | 41  | 22  | 8   | 8   | 26  | 14  | 11  | 7  | 6   | 13  | 21  | 285   |
| 7.51-12.50  | 56  | 30  | 20 | 19  | 29 | 51  | 25  | 10  | 31  | 67  | 29  | 10  | 5  | 12  | 33  | 49  | 476   |
| 12.51-18.50 | 34  | 18  | 10 | 9   | 11 | 27  | 30  | 26  | 48  | 48  | 30  | 26  | 15 | 16  | 40  | 48  | 436   |
| 18.51-24.00 | 69  | 8   | 4  | 2   | 3  | 25  | 44  | 104 | 143 | 63  | 38  | 23  | 47 | 58  | 88  | 117 | 836   |
| >24.00      | 192 | 79  | 68 | 58  | 85 | 150 | 126 | 158 | 232 | 205 | 115 | 76  | 76 | 95  | 178 | 245 | 2138  |
| TOTAL       | 192 | 79  | 68 | 58  | 85 | 150 | 126 | 158 | 232 | 205 | 115 | 76  | 76 | 95  | 178 | 245 | 2138  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 3/31/ 0

\*\*\* JAN-MAR 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2138

TOTAL NUMBER OF MISSING OBSERVATIONS: 46

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.9 %

MEAN WIND SPEED FOR THIS PERIOD: 22.3 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

| A    | B    | C    | D     | E     | F     | G    |
|------|------|------|-------|-------|-------|------|
| 0.00 | 0.23 | 3.79 | 53.13 | 27.83 | 12.02 | 2.99 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW  | WSW | W  | WNW | NW  | NNW | CALM |
|-------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|------|
| A     | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0   | 0   | 0   | 0    |
| B     | 2   | 0   | 0  | 0   | 0  | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0  | 0   | 0   | 0   | 0    |
| C     | 17  | 2   | 1  | 1   | 0  | 2   | 3   | 1   | 15  | 11  | 1   | 0   | 0  | 1   | 1   | 25  | 0    |
| D     | 135 | 54  | 46 | 36  | 57 | 96  | 65  | 46  | 75  | 86  | 46  | 43  | 26 | 50  | 116 | 159 | 0    |
| E     | 29  | 20  | 17 | 12  | 20 | 34  | 35  | 74  | 98  | 70  | 34  | 12  | 26 | 19  | 43  | 52  | 0    |
| F     | 6   | 3   | 4  | 9   | 6  | 13  | 13  | 29  | 32  | 30  | 28  | 19  | 23 | 18  | 16  | 8   | 0    |
| G     | 3   | 0   | 0  | 0   | 2  | 5   | 9   | 7   | 11  | 8   | 6   | 2   | 1  | 7   | 2   | 1   | 0    |
| TOTAL | 192 | 79  | 68 | 58  | 85 | 150 | 126 | 158 | 232 | 205 | 115 | 76  | 76 | 95  | 178 | 245 | 0    |

**JFDs of 100-Meter Wind vs. Delta T**

April-June 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     |       |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| 18.51-24.00 | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 11  | 1  | 2   | 0  | 0   | 0 | 0   | 1  | 0   | 16    |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 10 | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 13    |
| TOTAL       | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 13  | 12 | 2   | 0  | 0   | 0 | 0   | 1  | 1   | 30    |

STABILITY CLASS B

STABILITY BASED ON: DELTA T  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     |       |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 1 | 2   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 3     |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 1  | 4   | 6  | 0   | 1  | 0   | 0 | 0   | 0  | 5   | 17    |
| 18.51-24.00 | 2 | 0   | 0  | 0   | 0 | 0   | 0  | 7   | 6  | 1   | 0  | 0   | 0 | 0   | 1  | 0   | 17    |
| >24.00      | 2 | 0   | 0  | 0   | 0 | 0   | 1  | 7   | 23 | 4   | 1  | 0   | 0 | 0   | 1  | 0   | 39    |
| TOTAL       | 4 | 0   | 0  | 0   | 1 | 2   | 2  | 18  | 35 | 5   | 2  | 0   | 0 | 0   | 1  | 6   | 76    |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0  | 1   | 0  | 1   | 1 | 0   | 1  | 0   | 0  | 1   | 0  | 1   | 0 | 0   | 0  | 0   | 6     |
| 7.51-12.50  | 2  | 0   | 0  | 0   | 0 | 0   | 1  | 2   | 0  | 0   | 1  | 1   | 0 | 0   | 0  | 1   | 8     |
| 12.51-18.50 | 3  | 2   | 0  | 0   | 2 | 3   | 6  | 7   | 5  | 1   | 3  | 2   | 1 | 2   | 1  | 8   | 46    |
| 18.51-24.00 | 3  | 1   | 0  | 0   | 0 | 0   | 2  | 10  | 3  | 0   | 0  | 3   | 1 | 0   | 1  | 4   | 28    |
| >24.00      | 2  | 0   | 0  | 0   | 0 | 2   | 7  | 7   | 25 | 7   | 2  | 2   | 0 | 2   | 6  | 1   | 56    |
| TOTAL       | 10 | 4   | 0  | 1   | 3 | 3   | 12 | 26  | 33 | 9   | 6  | 9   | 2 | 4   | 8  | 14  | 144   |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S   | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|-------|
| CALM        |    |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0   | 0   | 1  | 0   | 0  | 1   | 1  | 0   | 3     |
| 3.51- 7.50  | 7  | 7   | 5  | 9   | 2  | 6   | 6  | 8   | 7   | 11  | 2  | 1   | 3  | 0   | 4  | 2   | 80    |
| 7.51-12.50  | 7  | 7   | 6  | 5   | 8  | 16  | 19 | 12  | 16  | 16  | 4  | 4   | 8  | 13  | 11 | 11  | 163   |
| 12.51-18.50 | 22 | 17  | 7  | 7   | 11 | 19  | 23 | 17  | 22  | 18  | 12 | 11  | 6  | 5   | 20 | 28  | 245   |
| 18.51-24.00 | 15 | 3   | 3  | 0   | 9  | 11  | 13 | 13  | 19  | 22  | 9  | 12  | 9  | 12  | 19 | 27  | 196   |
| >24.00      | 25 | 2   | 3  | 3   | 1  | 6   | 8  | 45  | 78  | 21  | 1  | 6   | 14 | 24  | 35 | 85  | 357   |
| TOTAL       | 76 | 36  | 24 | 24  | 31 | 58  | 69 | 95  | 142 | 88  | 29 | 34  | 40 | 55  | 90 | 153 | 1044  |



PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S   | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|----|-----|-------|
| CALM        |    |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0   | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0  | 1   | 0  | 0   | 0  | 0   | 1  | 0   | 0   | 0   | 0  | 0   | 1  | 2   | 0  | 0   | 5     |
| 7.51-12.50  | 0  | 4   | 3  | 3   | 4  | 3   | 8  | 2   | 1   | 2   | 1  | 2   | 0  | 0   | 4  | 2   | 39    |
| 12.51-18.50 | 5  | 1   | 0  | 0   | 4  | 4   | 8  | 6   | 12  | 10  | 8  | 4   | 5  | 7   | 3  | 4   | 81    |
| 18.51-24.00 | 4  | 3   | 2  | 4   | 10 | 4   | 9  | 13  | 11  | 4   | 12 | 9   | 0  | 4   | 9  | 6   | 104   |
| >24.00      | 11 | 3   | 2  | 2   | 9  | 18  | 29 | 56  | 99  | 26  | 13 | 10  | 12 | 13  | 42 | 26  | 371   |
| TOTAL       | 20 | 12  | 7  | 9   | 27 | 29  | 55 | 77  | 123 | 42  | 34 | 25  | 18 | 26  | 58 | 38  | 600   |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |    |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 0 | 0   | 1  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 0 | 1   | 1  | 0   | 0  | 2   | 0  | 1   | 0 | 0   | 2  | 1   | 8     |
| 7.51-12.50  | 1 | 0   | 2  | 0   | 1 | 0   | 8  | 4   | 4  | 4   | 3  | 1   | 0 | 3   | 2  | 1   | 34    |
| 12.51-18.50 | 2 | 3   | 0  | 1   | 3 | 8   | 7  | 7   | 9  | 8   | 3  | 2   | 0 | 3   | 4  | 1   | 61    |
| 18.51-24.00 | 1 | 5   | 0  | 1   | 0 | 0   | 5  | 8   | 3  | 5   | 3  | 1   | 2 | 2   | 4  | 1   | 41    |
| >24.00      | 1 | 0   | 0  | 0   | 1 | 0   | 0  | 5   | 12 | 2   | 1  | 2   | 1 | 1   | 6  | 0   | 32    |
| TOTAL       | 5 | 8   | 3  | 2   | 5 | 9   | 21 | 24  | 28 | 21  | 10 | 7   | 3 | 9   | 18 | 4   | 177   |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|-------|
| CALM        |   |     |    |     |   |     |    |     |   |     |    |     |   |     |    |     | 0     |
| 1.01- 3.50  | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| 3.51- 7.50  | 0 | 0   | 0  | 1   | 0 | 0   | 0  | 0   | 0 | 1   | 0  | 0   | 1 | 0   | 0  | 0   | 3     |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 2 | 0   | 0  | 0   | 0 | 1   | 0  | 0   | 1 | 1   | 0  | 2   | 7     |
| 12.51-18.50 | 3 | 0   | 0  | 0   | 0 | 1   | 2  | 0   | 3 | 2   | 0  | 1   | 0 | 0   | 0  | 3   | 15    |
| 18.51-24.00 | 3 | 1   | 0  | 0   | 0 | 0   | 0  | 0   | 2 | 2   | 0  | 0   | 0 | 2   | 0  | 1   | 11    |
| >24.00      | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 1   | 0 | 0   | 0  | 3   | 2 | 3   | 1  | 0   | 11    |
| TOTAL       | 8 | 1   | 0  | 1   | 2 | 1   | 2  | 1   | 5 | 6   | 0  | 4   | 4 | 6   | 1  | 6   | 48    |

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-------|
| CALM        |     |     |    |     |    |     |     |     |     |     |    |     |    |     |     |     | 0     |
| 1.01- 3.50  | 1   | 0   | 1  | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 1  | 0   | 0  | 1   | 1   | 0   | 5     |
| 3.51- 7.50  | 7   | 9   | 5  | 11  | 3  | 7   | 9   | 8   | 7   | 15  | 2  | 3   | 5  | 2   | 6   | 3   | 102   |
| 7.51-12.50  | 10  | 11  | 11 | 8   | 16 | 21  | 36  | 20  | 21  | 23  | 9  | 8   | 9  | 17  | 17  | 17  | 254   |
| 12.51-18.50 | 35  | 23  | 7  | 8   | 20 | 35  | 47  | 41  | 58  | 39  | 27 | 20  | 12 | 17  | 28  | 49  | 466   |
| 18.51-24.00 | 29  | 13  | 5  | 5   | 19 | 15  | 29  | 62  | 45  | 36  | 24 | 25  | 12 | 20  | 35  | 39  | 413   |
| >24.00      | 42  | 5   | 5  | 5   | 11 | 24  | 40  | 123 | 247 | 60  | 18 | 23  | 29 | 43  | 90  | 114 | 879   |
| TOTAL       | 124 | 61  | 34 | 37  | 69 | 102 | 161 | 254 | 378 | 173 | 81 | 79  | 67 | 100 | 177 | 222 | 2119  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 4/ 1/ 0 - 6/30/ 0

\*\*\* APR-JUN 2000 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184  
 TOTAL NUMBER OF VALID OBSERVATIONS: 2119  
 TOTAL NUMBER OF MISSING OBSERVATIONS: 65  
 PERCENT DATA RECOVERY FOR THIS PERIOD: 97.0 %  
 MEAN WIND SPEED FOR THIS PERIOD: 22.7 MPH  
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

|  | A    | B    | C    | D     | E     | F    | G    |
|--|------|------|------|-------|-------|------|------|
|  | 1.42 | 3.59 | 6.80 | 49.27 | 28.32 | 8.35 | 2.27 |

DISTRIBUTION OF WIND DIRECTION VS STABILITY

|       | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNW | NW  | MNW | CALM |
|-------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|------|
| A     | 1   | 0   | 0  | 0   | 0  | 0   | 0   | 13  | 12  | 2   | 0  | 0   | 0  | 0   | 1   | 1   | 0    |
| B     | 4   | 0   | 0  | 0   | 1  | 2   | 2   | 18  | 35  | 5   | 2  | 0   | 0  | 0   | 1   | 6   | 0    |
| C     | 10  | 4   | 0  | 1   | 3  | 3   | 12  | 26  | 33  | 9   | 6  | 9   | 2  | 4   | 8   | 14  | 0    |
| D     | 76  | 36  | 24 | 24  | 31 | 58  | 69  | 95  | 142 | 88  | 29 | 34  | 40 | 55  | 90  | 153 | 0    |
| E     | 20  | 12  | 7  | 9   | 27 | 29  | 55  | 77  | 123 | 42  | 34 | 25  | 18 | 26  | 58  | 38  | 0    |
| F     | 5   | 8   | 3  | 2   | 5  | 9   | 21  | 24  | 28  | 21  | 10 | 7   | 3  | 9   | 18  | 4   | 0    |
| G     | 8   | 1   | 0  | 1   | 2  | 1   | 2   | 1   | 5   | 6   | 0  | 4   | 4  | 6   | 1   | 6   | 0    |
| TOTAL | 124 | 61  | 34 | 37  | 69 | 102 | 161 | 254 | 378 | 173 | 81 | 79  | 67 | 100 | 177 | 222 | 0    |

**JFDs of 100-Meter Wind vs. Delta T**

January-June 2000

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

\*\*\* JAN-JUN 2000 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 7.51-12.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 1     |
| 18.51-24.00 | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 11  | 1  | 2   | 0  | 0   | 0 | 0   | 1  | 0   | 16    |
| >24.00      | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 2   | 10 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 13    |
| TOTAL       | 1 | 0   | 0  | 0   | 0 | 0   | 0  | 13  | 12 | 2   | 0  | 0   | 0 | 0   | 1  | 1   | 30    |

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL |
|-------------|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|-------|
| CALM        | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 1.01- 3.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 0 | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0     |
| 7.51-12.50  | 1 | 0   | 0  | 0   | 1 | 2   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 4     |
| 12.51-18.50 | 0 | 0   | 0  | 0   | 0 | 0   | 1  | 4   | 6  | 0   | 1  | 0   | 0 | 0   | 0  | 5   | 17    |
| 18.51-24.00 | 3 | 0   | 0  | 0   | 0 | 0   | 0  | 7   | 6  | 1   | 0  | 0   | 0 | 0   | 1  | 0   | 18    |
| >24.00      | 2 | 0   | 0  | 0   | 0 | 0   | 2  | 8   | 24 | 4   | 1  | 0   | 0 | 0   | 0  | 1   | 42    |
| TOTAL       | 6 | 0   | 0  | 0   | 1 | 2   | 3  | 19  | 36 | 5   | 2  | 0   | 0 | 0   | 1  | 6   | 81    |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/1/0 - 6/30/0

\*\*\* JAN-JUN 2000 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E | ESE | SE | SSE | S  | SSW | SW | WSW | W | WNNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|------|----|-----|-------|
| CALM        |    |     |    |     |   |     |    |     |    |     |    |     |   |      |    |     | 0     |
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0 | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0 | 0    | 0  | 0   | 0     |
| 3.51- 7.50  | 0  | 1   | 0  | 2   | 1 | 1   | 1  | 0   | 0  | 1   | 0  | 1   | 0 | 0    | 0  | 1   | 9     |
| 7.51-12.50  | 2  | 1   | 1  | 0   | 0 | 0   | 1  | 3   | 0  | 1   | 1  | 1   | 0 | 0    | 0  | 1   | 12    |
| 12.51-18.50 | 14 | 3   | 0  | 0   | 2 | 4   | 6  | 7   | 6  | 3   | 3  | 2   | 6 | 1    | 1  | 10  | 64    |
| 18.51-24.00 | 7  | 1   | 0  | 0   | 0 | 0   | 5  | 10  | 5  | 5   | 0  | 3   | 1 | 1    | 2  | 20  | 60    |
| >24.00      | 4  | 0   | 0  | 0   | 0 | 0   | 2  | 7   | 37 | 10  | 3  | 2   | 0 | 2    | 6  | 7   | 80    |
| TOTAL       | 27 | 6   | 1  | 2   | 3 | 5   | 15 | 27  | 48 | 20  | 7  | 9   | 2 | 5    | 9  | 39  | 225   |

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

| SPEED (MPH) | N   | NNE | NE | ENE | E  | ESE | SE  | SSE | S   | SSW | SW | WSW | W  | WNNW | NW  | NNW | TOTAL |
|-------------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|----|------|-----|-----|-------|
| CALM        |     |     |    |     |    |     |     |     |     |     |    |     |    |      |     |     | 0     |
| 1.01- 3.50  | 2   | 0   | 2  | 1   | 0  | 0   | 1   | 1   | 0   | 0   | 1  | 0   | 0  | 1    | 1   | 2   | 12    |
| 3.51- 7.50  | 16  | 19  | 15 | 13  | 5  | 10  | 9   | 15  | 9   | 12  | 4  | 6   | 5  | 2    | 6   | 7   | 153   |
| 7.51-12.50  | 25  | 15  | 21 | 21  | 40 | 49  | 36  | 18  | 21  | 29  | 11 | 14  | 11 | 18   | 22  | 29  | 380   |
| 12.51-18.50 | 61  | 41  | 21 | 19  | 28 | 53  | 38  | 19  | 39  | 58  | 31 | 15  | 9  | 11   | 49  | 66  | 558   |
| 18.51-24.00 | 35  | 10  | 8  | 3   | 14 | 29  | 32  | 26  | 33  | 41  | 20 | 27  | 16 | 23   | 42  | 49  | 408   |
| >24.00      | 72  | 5   | 3  | 3   | 1  | 13  | 18  | 62  | 115 | 34  | 8  | 15  | 25 | 50   | 86  | 159 | 669   |
| TOTAL       | 211 | 90  | 70 | 60  | 88 | 154 | 134 | 141 | 217 | 174 | 75 | 77  | 66 | 105  | 206 | 312 | 2180  |

PROGRAM: JFD VERSION: 5P  
 NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 2000  
 SITE IDENTIFIER: NPPD  
 DATA PERIOD EXAMINED: 1/ 1/ 0 - 6/30/ 0

\*\*\* JAN-JUN 2000 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S   | SSW | SW | WSW | W  | WNW | NW  | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|-----|-----|-------|
| 1.01- 3.50  | 0  | 0   | 0  | 0   | 0  | 0   | 1  | 0   | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 0   | 0     |
| 3.51- 7.50  | 0  | 1   | 0  | 2   | 0  | 1   | 1  | 0   | 0   | 0   | 1  | 0   | 1  | 2   | 0   | 2   | 11    |
| 7.51-12.50  | 0  | 4   | 5  | 3   | 6  | 6   | 10 | 2   | 1   | 9   | 3  | 2   | 1  | 0   | 5   | 4   | 61    |
| 12.51-18.50 | 8  | 5   | 6  | 4   | 14 | 10  | 9  | 10  | 21  | 22  | 12 | 7   | 5  | 8   | 6   | 11  | 158   |
| 18.51-24.00 | 12 | 14  | 7  | 8   | 15 | 11  | 12 | 18  | 29  | 19  | 16 | 11  | 6  | 4   | 19  | 15  | 216   |
| >24.00      | 29 | 8   | 6  | 4   | 12 | 35  | 57 | 121 | 170 | 62  | 36 | 17  | 31 | 31  | 71  | 58  | 748   |
| TOTAL       | 49 | 32  | 24 | 21  | 47 | 63  | 90 | 151 | 221 | 112 | 68 | 37  | 44 | 45  | 101 | 90  | 1195  |

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS  
 WIND MEASURED AT: 100.0 FEET  
 WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT100.00 METERS

| SPEED (MPH) | N  | NNE | NE | ENE | E  | ESE | SE | SSE | S  | SSW | SW | WSW | W  | WNW | NW | NNW | TOTAL |
|-------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-------|
| 1.01- 3.50  | 0  | 0   | 1  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0  | 0   | 0     |
| 3.51- 7.50  | 1  | 1   | 0  | 2   | 1  | 1   | 1  | 2   | 0  | 2   | 1  | 2   | 0  | 1   | 4  | 1   | 20    |
| 7.51-12.50  | 2  | 1   | 6  | 2   | 3  | 4   | 9  | 5   | 7  | 5   | 6  | 2   | 3  | 4   | 3  | 2   | 64    |
| 12.51-18.50 | 3  | 4   | 0  | 4   | 5  | 14  | 12 | 11  | 13 | 17  | 9  | 5   | 2  | 7   | 5  | 2   | 113   |
| 18.51-24.00 | 2  | 5   | 0  | 3   | 1  | 2   | 7  | 11  | 13 | 14  | 15 | 9   | 4  | 3   | 8  | 2   | 99    |
| >24.00      | 3  | 0   | 0  | 0   | 1  | 1   | 5  | 24  | 27 | 13  | 7  | 8   | 17 | 12  | 14 | 5   | 137   |
| TOTAL       | 11 | 11  | 7  | 11  | 11 | 22  | 34 | 53  | 60 | 51  | 38 | 26  | 26 | 27  | 34 | 12  | 434   |