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10 CFR 50.36a (a)(2) 10CFR 50.4

Exelon

Nuclear

March 30, 2001

PSLTR: #01-0042

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555-0001

> Dresden Nuclear Power Station Units 1, 2, and 3 Facility Operating Licenses DPR-2, DPR-19, and DPR-25 <u>NRC Dockets 50-10, 50-237 and 50-249</u>

Subject: Dresden Nuclear Power Station 2000 Radioactive Effluent Release Report and Offsite Dose Calculation Manual Changes

The Radioactive Effluent Release Report for January through December 2000 for Dresden Nuclear Power Station (DNPS) is submitted in accordance with Section 6.9.A.4, "Radioactive Effluent Release Report", of the Dresden Technical Specifications and 10CFR 50.36a (a)(2), "Technical specifications".

A copy of the DNPS Offsite Dose Calculation Manual (ODCM), current as of December 31, 2000, and a Summary of Changes to the ODCM implemented in 2000 are also submitted in accordance with Dresden Technical Specification Section 6.14.A.3, "Offsite Dose Calculation Manual (ODCM)", and 10CFR 50.4, "Written communications".

Should you have any questions concerning this letter, please contact Mr. D.F. Ambler, Regulatory Assurance Manager, at (815) 942-2920, extension 3800.

Respectfully,

Preston Swáfford Site Vice President Dresden Nuclear Power Station

Attachments: DNPS 2000 Radioactive Effluent Release Report DNPS Offsite Dose Calculation Manual Summary of Changes to DNPS ODCM

cc: Regional Administrator - NRC Region III NRC Senior Resident - Dresden Nuclear Power Station

DOCKET NUMBERS: 50-010/50-237/50-249

1. Regulatory Limits

a. For Noble Gases

Dose Rate

- 1) Less than 500 mrem/year to the whole body.
- 2) Less than 3000 mrem/year to the skin.

Dose Gamma Radiation

- 1) Less than or equal to 5 mrad/quarter.
- 2) Less than or equal to 10 mrad/year.

Beta Radiation

- 1) Less than or equal to 10 mrad/quarter.
- 2) Less than or equal to 20 mrad/year.
- b.,c. For Iodine-131, for Iodine-133, and for all radionuclides in particulate form with half-lives greater than 8 days.

Dose Rate

1) Less than 1500 mrem/year.

<u>Dose</u>

- 1) Less than or equal to 7.5 mrem/quarter to any organ.
- 2) Less than or equal to 15 mrem/year to any organ.

d. For Liquid

- 1) Less than or equal to 3 mrem to the whole body during any calendar quarter.
- 2) Less than or equal to 10 mrem to any organ during any calendar quarter.
- 3) Less than or equal to 6 mrem to the whole body during any calendar year.
- 4) Less than or equal to 20 mrem to any organ during any calendar year.

2. Maximum Permissible Concentration

- a., b., c. For fission and activation gases, iodines and particulates with half-lives greater than 8 days, allowable dose rates are calculated by solving equations 10.1 and 10.2 from the Offsite Dose Calculation Manual.
- d. For liquid effluents, allowable release limits are calculated by solving equations 10.3 and 10.4 from the Offsite Dose Calculation Manual.

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DOCKET NUMBERS: 50-010/50-237/50-249

3. Average Energy

The average energy of fission and activation gases was calculated for the gaseous effluents released from the site. The average energy is based on the percentage of each fission gas nuclide present and its average energy per disintegration (E in MeV/dis) for gamma and beta emissions separately.

| Egamma | = | 1.69E-01 MeV/dis |
|-------------------|---|------------------|
| E _{BETA} | = | 2.93E-01 MeV/dis |

- 4. Measurement and Approximations of Total Radioactivity
 - a. Fission and Activation Gases:
 - b. Iodines:
 - c. Particulates:

The Units 2/3 and Unit 1 Chimneys, Units 2/3 Reactor Building Vent and Unit 1 Chemical Cleaning Building effluents are continually sampled for iodines and particulates. These samples are pulled weekly and analyzed by gamma isotopic. The particulate filters are composited and sent to a vendor for gross alpha, Sr-89/90 and Fe-55 analysis. Noble gas grab samples are pulled and analyzed by gamma isotopic weekly. Tritium samples are pulled and analyzed monthly.

For the Units 2/3 Chimney and Units 2/3 Reactor Building Vent effluents, the average flow at the release points is used to calculate the Curies released. For the Unit 1 Chimney and Unit 1 Chemical Cleaning Building effluents, the design basis flows are used to calculate Curies released.

d. Liquid Effluents:

The river discharge tanks are analyzed by isotopic prior to discharge. A representative portion of this sample is saved and composited with other discharges that occur during the sampling period. The composite is sent to a vendor for analyses of gross alpha, H-3, Fe-55, Sr-89/90 content.

The tank volumes and activities are used to calculate the diluted activity released at the discharge point from batch discharges.

e. Less than the lower limit of detection (<LLD)

Samples are analyzed such that the ODCM LLD requirements are met. When a nuclide is not detected then <LLD is reported.

f. Equipment out-of-service

None.

g. Estimation of Data/Corrections:

None.

DOCKET NUMBERS: 50-010/50-237/50-249

SUMMATION OF ALL GASEOUS RELEASES

| A. FISSION & ACTIVATION GASES | <u>UNITS</u> | 1 ST Quarter | 2 nd Quarter | <u>Est. Total</u> <u>Error, %</u> |
|---|--------------|-------------------------|-------------------------|--------------------------------------|
| 1. Total Release | Ci | 3.39E+02 | 1.98E+02 | 7.31% |
| 2. Average Release Rate for the Period | µCi/sec | 4.31E+01 | 2.51E+01 | |
| 3. Percent of Technical Specification Limit | % | * | * | |

B. IODINES

| 1. | Total Iodine-131 | Ci | 1.12E-03 | 1.39E-03 | 21.6% |
|----|--|---------|----------|----------|-------|
| 2. | Average Release Rate of I-131 for the Period | µCi/sec | 1.43E-04 | 1.77E-04 | |
| 3. | Percent of Technical Specification Limit | % | * | * | |
| 4. | Total Iodine-131, Iodine-133 and Iodine-135 | Ci | 3.53E-02 | 4.75E-02 | |

C. PARTICULATES

| 1. Particulates w | ith half-lives > 8 days | Ci | 5.30E-03 | 4.96E-03 | 34.1% |
|-------------------|----------------------------|---------|----------|----------|-------|
| 2. Average Relea | se Rate for the Period | µCi/sec | 6.74E-04 | 6.31E-04 | |
| 3. Percent of Tec | hnical Specification Limit | % | * | * | |
| 4. Gross Alpha F | adioactivity | Ci | 7.92E-06 | 3.83E-06 | |

D. TRITIUM

| 1. Total Release | Ci | 9.77E+00 | 4.32E+00 | 7.89% |
|---|---------|----------|----------|-------|
| 2. Average Release Rate for the Period | µCi/sec | 1.24E+00 | 5.49E-01 | |
| 3. Percent of Technical Specification Limit | % | * | * | |

*The information is contained in the Radiological Impact on Man section of the report. Total airborne release data are provided which include fission and activation gases, iodines, particulates, tritium.

DOCKET NUMBERS: 50-010/50-237/50-249

SUMMATION OF ALL GASEOUS RELEASES

| | <u>UNITS</u> | 3 rd Quarter | 4 th Quarter | Est. Total Error, % |
|---|--------------|-------------------------|-------------------------|------------------------|
| A. FISSION & ACTIVATION GASES | | | | <u>EII01, 70</u> |
| 1. Total Release | Ci | 6.83E+01 | 2.71E+01 | 7.31% |
| 2. Average Release Rate for the Period | µCi/sec | 8.60E+00 | 3.41E+00 | |
| 3. Percent of Technical Specification Limit | % | * | * | |

B. IODINES

| 1. | Total Iodine-131 | Ci | 1.42E-03 | 5.94E-04 | 21.6% |
|----|--|---------|----------|----------|-------|
| 2. | Average Release Rate of I-131 for the Period | µCi/sec | 1.79E-04 | 7.48E-05 | |
| 3. | Percent of Technical Specification Limit | % | * | * | |
| 4. | Total Iodine-131, Iodine-133 and Iodine-135 | Ci | 3.49E-02 | 5.99E-03 | |

C. PARTICULATES

| 1. Particulates with half-lives > 8 days | Ci | 2.25E-03 | 4.14E-03 | 34.1% |
|---|---------|----------|----------|-------|
| 2. Average Release Rate for the Period | µCi/sec | 2.83E-04 | 5.21E-04 | |
| 3. Percent of Technical Specification Limit | % | * | * | |
| 4. Gross Alpha Radioactivity | Ci | 7.44E-06 | 3.08E-06 | |

D. TRITIUM

| 1. | Total Release | Ci | 4.01E+00 | 1.63E+01 | 7.89% |
|----|--|---------|----------|----------|-------|
| 2. | Average Release Rate for the Period | µCi/sec | 5.04E-01 | 2.05E+00 | |
| 3. | Percent of Technical Specification Limit | % | * | * | |

*The information is contained in the Radiological Impact on Man section of the report. Total airborne release data are provided which include fission and activation gases, iodines, particulates, tritium.

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DOCKET NUMBERS: 50-010/50-237/50-249

TABLE OF LOWER LIMITS OF DETECTABILITY FOR AIRBORNE EFFLUENTS

| 1. | FISSION/ACTIVATION GASES | μCi/ml |
|----|--------------------------|----------|
| | Kr-87 | 1.00E-06 |
| | Kr-88 | 1.00E-06 |
| | Xe-133 | 1.00E-06 |
| | Xe-133m | 1.00E-06 |
| | Xe-135 | 1.00E-06 |
| | Xe-138 | 1.00E-06 |
| 2. | IODINES | μCi/ml |
| | I-131 | 1.00E-12 |
| | I-133 | 1.00E-10 |
| 3. | PARTICULATES | μCi/ml |
| | Sr-89 | 1.00E-11 |
| | Sr-90 | 1.00E-11 |
| | Mn-54 | 1.00E-11 |
| | Fe-59 | 1.00E-11 |
| | Co-58 | 1.00E-11 |
| | Co-60 | 1.00E-11 |
| | Zn-65 | 1.00E-11 |
| | Mo-99 | 1.00E-11 |
| | Cs-134 | 1.00E-11 |
| | Cs-137 | 1.00E-11 |
| | Ce-141 | 1.00E-11 |
| | Ce-144 | 1.00E-11 |
| 4. | OTHER | µCi/ml |
| | Н-3 | 1.00E-06 |
| | Gross Alpha | 1.00E-11 |

The above values are the ODCM-required LLDs. Actual analyses always met the required LLDs.

D1 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-010

| GROUND LEVEL RELEASES |
|------------------------|
| SEMI-ELEVATED RELEASES |
| ELEVATED RELEASES |

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CONTINUOUS MODE

| NUCLIDES RELEASED | UNIT | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | TOTAL |
|-------------------|------|---|---------------------|---------------------|---------------------|----------------------|
| FISSION GASES | | | | | | |
| Ar-41 | Ci | * | * | * | * | * |
| Kr-85 | Ci | * | * | * | * | * |
| Kr-85m | Ci | * | * | * | * | * |
| Kr-87 | Ci | * | * | * | * | * |
| Kr-88 | Ci | * | * | * | * | * |
| Xe-133 | Ci | * | * | * | * | * |
| Xe-133m | Ci | * | * | * | * | * |
| Xe-135 | Ci | 1.04E-06 | 4.17E-06 | * | * | 5.21E-06 |
| Xe-135m | Ci | * | * | * | * | * |
| Xe-138 | Ci | * | * | * | * | * |
| TOTAL | Ci | 1.04E-06 | 4.17E-06 | None | None | 5.21E-06 |
| IODINES | | ····· | | | | |
| I-131 | Ci | * | * | * | * | * |
| I-131 | Ci | * | * | * | * | * |
| I-135 | Ci | * | * | * | * | * |
| | | ••••••••••••••••••••••••••••••••••••••• | | | | * |
| TOTAL | Ci | None | None | None | None | None |
| PARTICULATES | | | | | | |
| Fe-55 | Ci | * | * | * | * | * |
| Sr-89 | Ci | * | * | * | * | * |
| Sr-90 | Ci | * | * | * | * | * |
| Be-7 | Ci | * | * | * | * | * |
| Cr-51 | Ci | * | * | * | * | * |
| Mn-54 | Ci | 1.66E-07 | * | * | 4.37E-07 | 6.03E-07 |
| Co-57 | Ci | * | * | * | * | * |
| Co-58 | Ci | * | * | * | * | * |
| Fe-59 | Ci | * | * | * | * | * |
| Co-60 | Ci | 6.75E-07 | 2.13E-07 | 2.95E-07 | * | 1.18E-06 |
| Zn-65 | Ci | * | * | * | * | * |
| Sr-85 | Ci | * | * | * | * | * |
| Zr-95 | Ci | * | * | * | * | * |
| Mo-99 | Ci | * | * | * | * | * |
| Ru-103 | Ci | * | * | * | * | * |
| Cd-109 | Ci | 2.08E-06 | 3.80E-06 | * | * | 5.88E-06 |
| Ag-110m | Ci | * | * | * | * | <u>J.88E-00</u> * |
| Sn-113 | Ci | * | * | * | * | * |
| Sb-124 | Ci | * | * | * | * | * |
| Sb-125 | Ci | * | * | * | * | * |
| Cs-134 | Ci | * | * | * | * | * |
| Cs-136 | Ci | * | * | * | * | * |
| Cs-137 | Ci | * | 1.83E-07 | 3.44E-07 | * | |
| Ba-133 | Ci | * | * | 3.44E-07 * | * | 5.27E-07 * |
| Ba-140 | Ci | * | * | * | * | * |
| Ce-141 | Ci | * | * | * | * | * |
| Ce-141 Ce-144 | Ci | * | * | * | * | * |
| | | | | * | -# | * |
| TOTAL | Ci | 2.92E-06 | 4.20E-06 | 6.39E-07 | 4.37E-07 | 8.19E-06 |

D1 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-010

| GROUND LEVEL RELEASES |
|------------------------|
| SEMI-ELEVATED RELEASES |
| ELEVATED RELEASES |

BATCH MODE

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| NUCLIDES RELEASED | UNIT | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | TOTAL |
|-------------------|------|---------------------|---------------------|---------------------|---------------------|----------|
| FISSION GASES | | | | | | |
| Ar-41 | Ci | * | * | * | * | * |
| Kr-85 | Ci | * | * | 1.10E+01 | * | 1.10E+01 |
| Кг-85т | Ci | * | * | * | * | 1.10E+01 |
| Kr-87 | Ci | * | * | * | * | * |
| Kr-88 | Ci | * | * | * | * | * |
| Xe-133 | Ci | * | * | * | * | * |
| Xe-133m | Ci | * | * | * | * | * |
| Xe-135 | Ci | * | * | * | * | * |
| Xe-135m | Ci | * | * | * | * | * |
| Xe-138 | Ci | * | * | * | * | * |
| TOTAL | Ci | None | None | 1.10E+01 | None | 1.10E+01 |
| IODINES | | | | | | <u> </u> |
| I-131 | Ci | * | * | * | * | * |
| I-133 | Ci | * | * | * | * | * |
| I-135 | Ci | * | * | * | * | * |
| TOTAL | Ci | None | None | None | None | None |
| PARTICULATES | | | | | | |
| Fe-55 | Ci | * | * | * | * | * |
| Sr-89 | Ci | * | * | * | * | * |
| Sr-90 | Ci | * | * | * | * | * |
| Be-7 | Ci | * | * | * | * | * |
| Cr-51 | Ci | * | * | * | * | * |
| Mn-54 | Ci | * | * | * | * | * |
| Co-57 | Ci | * | * | * | * | * |
| Co-58 | Ci | * | * | * | * | * |
| Fe-59 | Ci | * | * | * | * | * |
| Co-60 | Ci | * | * | * | * | * |
| Zn-65 | Ci | * | * | * | * | * |
| Sr-85 | Ci | * | * | * | * | * |
| Zr-95 | Ci | * | * | * | * | * |
| Mo-99 | Ci | * | * | * | * | * |
| Ru-103 | Ci | * | * | * | * | * |
| Ag-110m | Ci | * | * | * | * | * |
| Sn-113 | Ci | * | * | * | * | * |
| Sb-124 | Ci | * | * | * | * | * |
| Sb-125 | Ci | * | * | * | * | * |
| Cs-134 | Ci | * | * | * | * | * |
| Cs-136 | Ci | * | * | * | * | * |
| Cs-137 | Ci | * | * | * | * | * |
| Ba-133 | Ci | * | * | * | * | * |
| Ba-140 | Ci | * | * | * | * | * |
| Ce-141 | Ci | * | * | * | * | * |
| Ce-144 | Ci | * | * | * | * | * |
| TOTAL | Ci | None | None | None | None | None |

D2/3 REACTOR BUILDING VENT

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

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GROUND LEVEL RELEASES SEMI-ELEVATED RELEASES ELEVATED RELEASES

CONTINUOUS MODE

| NUCLIDES RELEASED | UNIT | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | TOTAL |
|-------------------------|------|---------------------|---------------------|---------------------|----------------------|----------------------|
| FISSION GASES | | | | | | |
| Ar-41 | Ci | * | * | * | * | * |
| Kr-85 | Ci | * | * | * | * | * |
| Kr-85m | Ci | * | * | * | * | * |
| Kr-87 | Ci | * | * | * | * | * |
| Kr-88 | Ci | * | * | * | * | * |
| Xe-131m | Ci | * | * | 2.02E-05 | * | 2.02E-05 |
| Xe-133 | Ci | 1.73E-06 | * | 1.41E+01 | * | 1.41E+01 |
| Xe-135 | Ci | 3.02E-04 | 2.93E-05 | 3.28E-05 | 2.39E-05 | 3.88E-04 |
| Xe-135m | Ci | 1.71E-04 | * | * | * | 1.71E-04 |
| Xe-138 | Ci | * | * | * | * | * |
| TOTAL | Ci | 4.76E-04 | 2.93E-05 | 1.41E+01 | 2.39E-05 | 1.41E+01 |
| IODINES | | | | | | |
| I-131 | Ci | 1.37E-04 | 1.02E-05 | 3.85E-05 | 3.53E-06 | 1.89E-04 |
| I-133 | Ci | 1.24E-03 | 5.51E-05 | 1.72E-04 | 4.83E-05 | 1.52E-03 |
| I-135 | Ci | 3.02E-03 | \$.51E-05 | * | 4.83E-03 8.33E-04 | 1.52E-03 3.85E-03 |
| TOTAL | Ci | 4.26E-03 | 5.51E-05 | 1.72E-04 | 8.81E-04 | 5.37E-03 |
| PARTICULATES | | | 5.516 00 | 1 | 0.012.04 | 5.572-05 |
| | Ci | 3.50E-04 | 1.42E-04 | 3.30E-04 | 2.46E-04 | 1.07E-03 |
| Sr-89 | Ci | * | * | * | 2.40E-04 * | 1.07E-03 |
| Sr-90 | Ci | * | * | * | * | * |
| Be-7 | Ci | * | * | * | * | * |
| Cr-51 | Ci | 1.03E-03 | * | 1.82E-05 | 1.81E-05 | 1.07E-03 |
| Mn-54 | Ci | 1.55E-04 | 2.61E-05 | 4.81E-05 | 9.17E-05 | 3.20E-04 |
| Co-57 | Ci | * | * | * | 9.176-03 | 3.20E-04 * |
| Co-58 | Ci | 5.62E-05 | * | 1.98E-06 | 1.26E-06 | 5.94E-05 |
| Fe-59 | Ci | * | * | 6.45E-06 | 3.19E-06 | 9.64E-06 |
| <u> </u> | Ci | 2.09E-04 | 2.82E-05 | 5.73E-05 | 5.26E-05 | 3.47E-04 |
| Zn-65 | Ci | 3.28E-05 | * | 8.99E-06 | 9.47E-06 | 5.13E-05 |
| Sr-85 | Ci | | * | * | 9.47E-00 * | |
| Sr-89 | , Ci | 6.63E-06 | 1.49E-07 | * | 1.97E-06 | 8.75E-06 |
| Sr-90 | Ci | 1.27E-06 | 4.08E-08 | * | 1.97E-00 | 8.75E-06 1.31E-06 |
| Zr-95 | Ci | 1.27E-00 * | 4.08E-08 | * | * | 1.31E-06 |
| Mo-99 | Ci | 5.82E-05 | * | * | * | |
| | Ci | 5.82E-05 * | * | * | * | 5.82E-05 |
| | Ci | * | * | * | * | * |
| Ag-110m | Ci | | * | * | * | |
| <u>Sn-113</u> Sb-124 | | 2.07E-06 | * | * | * | 2.07E-06 |
| | Ci | 5.33E-07 * | * | * | * | 5.33E-07 * |
| Sb-125 | Ci | * | * | * | * | * |
| Cs-134 | Ci | * | | * | | |
| Cs-137 | Ci | | * | | * | * |
| Ba-140 | Ci | 1.35E-03 | * | 6.30E-06 | * | 1.36E-03 |
| Ce-141 | Ci | * | * | * | 3.48E-07 | 3.48E-07 |
| Ce-144 | Ci | * | * | * | 4.99E-06 | 4.99E-06 |
| Hg-203 | Ci | * | 9.57E-07 | * | * | 9.57E-07 |
| TOTAL | Ci | 3.25E-03 | 1.97E-04 | 4.77E-04 | 4.29E-04 | 4.36E-03 |

D2/3 REACTOR BUILDING VENT

XX

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

| GROUND LEVEL RELEASES |
|------------------------|
| SEMI-ELEVATED RELEASES |
| ELEVATED RELEASES |

BATCH MODE

| NUCLIDES RELEASED | UNIT | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | TOTAL |
|-------------------|------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------|---------------------------------------|
| FISSION GASES | | | | | | |
| Ar-41 | Ci | | | | | |
| Kr-85 | Ci | | | | | |
| Kr-85m | Ci | | | | | |
| Kr-87 | Ci | | · · · · · | | | |
| Kr-88 | Ci | | | | | · · · · · · · · · · · · · · · · · · · |
| Xe-133 | Ci | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | | |
| Xe-133m | Ci | | | | | |
| Xe-135 | Ci | | | | | |
| Xe-135m | Ci | | | | | |
| Xe-138 | Ci | | | | | |
| TOTAL | Ci | None | None | None | None | None |
| IODINES | | | | | | |
| I-131 | Ci | | | | | |
| I-133 | Ci | | | · · · · · · · · · · · · · · · · · · · | | |
| I-135 | Ci | | | | | |
| TOTAL | Ci | None | None | None | None | None |
| PARTICULATES | | | | | | |
| Fe-55 | Ci | | | | | |
| Sr-89 | Ci | | | | | |
| Sr-90 | Ci | | | | | |
| Be-7 | Ci | | | | | |
| Cr-51 | Ci | | | | | |
| Mn-54 | Ci | | | | | |
| Co-57 | Ci | | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · |
| Co-58 | Ci | | | | | |
| Fe-59 | Ci | | | | | |
| Co-60 | Ci | | | | | |
| Zn-65 | Ci | | | | | |
| Sr-85 | Ci | | | | | |
| Zr-95 | Ci | | | | | |
| Mo-99 | Ci | | | | | |
| Ru-103 | Ci | · | | | | |
| Ag-110m | Ci | | | | | |
| Sn-113 | Ci | | | | | |
| Sb-124 | Ci | | | | | |
| Sb-125 | Ci | | i | | | <u></u> |
| Cs-134 | Ci | | | | | |
| Cs-136 | Ci | | | | | |
| Cs-137 | Ci | | | | | |
| Ba-133 | Ci | | | | | |
| Ba-140 | Ci | | | | | · |
| Ce-141 | Ci | | | | | |
| Ce-144 | Ci | | | | | |
| TOTAL | Ci | None | None | None | None | None |

D2/3 MAIN CHIMNEY

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

GROUND LEVEL RELEASES SEMI-ELEVATED RELEASES

XX

ELEVATED RELEASES

CONTINUOUS MODE

| NUCLIDES RELEASED | UNIT | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | TOTAL |
|-------------------|------|---------------------|---------------------------------------|---------------------|---------------------|-----------------------------|
| FISSION GASES | | | | | | |
| Ar-41 | Ci | 8.49E-01 | 5.74E-01 | 1.21E+00 | 1.51E-01 | 2.78E+0 |
| Kr-85 | Ci | 2.94E+02 | 1.58E+02 | 2.83E-03 | * | 4.52E+0 |
| Kr-85m | Ci | 2.81E+00 | 1.81E+00 | 4.55E-01 | 2.43E-01 | 5.32E+0 |
| Kr-87 | Ci | 8.29E-01 | 9.14E-01 | 8.68E-01 | 6.95E-01 | 3.31E+0 |
| Kr-88 | Ci | 1.86E+00 | 9.84E-01 | 7.28E-01 | 5.64E-01 | 4.13E+0 |
| Xe-131m | Ci | * | 2.32E-02 | * | * | 2.32E-02 |
| Xe-133 | Ci | 5.03E+00 | 3.10E+00 | 9.91E-01 | 3.69E-01 | 9.49E+0 |
| Xe-133m | Ci | * | 1.29E-03 | * | * | 1.29E-03 |
| Xe-135 | Ci | 1.18E+01 | 8.64E+00 | 1.34E+01 | 9.04E+00 | 4.29E+0 |
| Xe-135m | Ci | 4.09E+00 | 4.79E+00 | 8.61E+00 | 3.13E+00 | 4.25E+0 |
| Xe-138 | Ci | 1.75E+01 | 1.85E+01 | 1.69E+01 | 1.29E+01 | 6.58E+01 |
| TOTAL | Ci | 3.39E+02 | 1.98E+02 | 4.32E+01 | 2.71E+01 | 6.07E+02 |
| IODINES | | | · · · · · · · · · · · · · · · · · · · | 1 | | |
| I-131 | Ci | 9.84E-04 | 1.38E-03 | 1.41E-03 | 5015.04 | |
| I-133 | Ci | 6.77E-03 | 8.49E-03 | 6.72E-03 | 5.91E-04 | 4.37E-03 |
| I-135 | Ci | 2.33E-02 | 3.75E-02 | 2.65E-02 | 2.72E-03 | 2.47E-02 |
| TOTAL | Ci | 3.10E-02 | | | 1.80E-03 | 8.92E-02 |
| | | 3.10E-02 | 4.74E-02 | 3.47E-02 | 5.10E-03 | 1.18E-01 |
| PARTICULATES | | | | | | |
| Fe-55 | Ci | 3.56E-04 | 1.81E-04 | 3.57E-04 | 1.20E-03 | 2.09E-03 |
| Be-7 | Ci | * | * | * | * | * |
| Cr-51 | Ci | 2.64E-04 | 2.32E-04 | * | 8.14E-05 | 5.77E-04 |
| Mn-54 | Ci | 1.89E-04 | 3.42E-05 | 5.92E-05 | 5.27E-04 | 8.09E-04 |
| Co-57 | Ci | * | * | * | * | * |
| Co-58 | Ci | 3.89E-05 | 9.04E-06 | 1.16E-05 | 5.43E-05 | 1.14E-04 |
| Fe-59 | Ci | * | * | * | 4.07E-05 | 4.07E-05 |
| Co-60 | Ci | 3.11E-04 | 2.49E-04 | 3.24E-04 | 3.97E-04 | 1.28E-03 |
| Zn-65 | Ci | 1.64E-05 | 5.75E-05 | 7.21E-06 | 1.21E-04 | 2.02E-04 |
| Sr-85 | Ci | * | 2.99E-03 | 1.29E-05 | * | 3.00E-03 |
| Y-88 | Ci | * | * | 2.06E-06 | * | 2.06E-06 |
| Sr-89 | Ci | 3.50E-04 | 2.83E-04 | 3.43E-04 | 2.67E-04 | 1.24E-03 |
| Sr-90 | Ci | 4.11E-08 | 1.35E-06 | 2.11E-06 | 2.06E-06 | 5.55E-06 |
| Zr-95 | Ci | * | * | * | * | <u> </u> |
| Mo-99 | Ci | * | * | * | * | * |
| Ru-103 | Ci | * | * | * | 2.63E-04 | 2.63E-04 |
| Cd-109 | Ci | * | * | * | 8.39E-05 | 8.39E-05 |
| Ag-110m | Ci | * | * | 2.91E-05 | * | 2.91E-05 |
| Sn-117m | Ci | * | * | * | 3.72E-05 | <u>2.91E-05</u> 3.72E-05 |
| Sb-124 | Ci | * | * | * | * | <u>3.72E-05</u> |
| Sb-125 | Ci | * | 1.41E-05 | 1.78E-05 | * | |
| Cs-134 | Ci | * | 5.38E-05 | * | | 3.19E-05 |
| Cs-137 | Ci | 1.65E-06 | * | * | 1.13E-05 * | 6.51E-05 |
| Ba-140 | Ci | 5.18E-04 | | | | 1.65E-06 |
| Ce-141 | Ci | | 6.54E-04 * | 5.99E-04 | 5.18E-04 | 2.29E-03 |
| Ce-144 | Ci | * | * | * | * | * |
| | | | | ····· | * | * |
| TOTAL | Ci | 2.04E-03 | 4.76E-03 | 1.77E-03 | 3.60E-03 | 1.22E-02 |

D2/3 MAIN CHIMNEY

XX

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

| GROUND LEVEL RELEASES | |
|------------------------|--|
| SEMI-ELEVATED RELEASES | |
| ELEVATED RELEASES | |

BATCH MODE

| NUCLIDES RELEASED | UNIT | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | TOTAL |
|-------------------|------|---|---------------------|---------------------------------------|---------------------|-------|
| FISSION GASES | | | | | | |
| Ar-41 | Ci | | | | | |
| Kr-85 | Ci | | <u> </u> | | | |
| Kr-85m | Ci | ······································ | | | | |
| Kr-87 | Ci | | | | | |
| Kr-88 | Ci | | | · · · · · · · · · · · · · · · · · · · | | |
| Xe-133 | Ci | - · · · · · · · · · · · · · · · · · · · | | † | | |
| Xe-133m | Ci | ······· | | | | |
| Xe-135 | Ci | | | | | |
| Xe-135m | Ci | | | | | |
| Xe-138 | Ci | | | | | |
| TOTAL | Ci | None | None | None | None | None |
| IODINES | | | | | | |
| I-131 | Ci | · | | | | |
| I-133 | Ci | | | | | |
| 1-135 | Ci | · | | · | | +-· |
| TOTAL | Ci | None | None | None | None | None |
| PARTICULATES | | | | | | |
| Fe-55 | Ci | | | | | |
| Sr-89 | Ci | | | · · · · · · · · · · · · | | |
| Sr-90 | Ci | | | | | |
| Be-7 | Ci | | | | | |
| Cr-51 | Ci | | | | | |
| Mn-54 | Ci | | | <u> </u> | | |
| Co-57 | Ci | | | | | |
| Co-58 | Ci | | | | | |
| Fe-59 | Ci | | | | | |
| Co-60 | Ci | | | | <u> </u> | |
| Zn-65 | Ci | | | | | |
| Sr-85 | Ci | | | | <u> </u> | |
| Zr-95 | Ci | | | | | |
| Mo-99 | Ci | | ····· | | | |
| Ru-103 | Ci | | · · · · · · · · · | | | |
| Ag-110m | Ci | | | | | |
| Sn-113 | Ci | | | | | |
| Sb-124 | Ci | | | | | |
| Sb-125 | Ci | ····· | | | | |
| Cs-134 | Ci | | | - | | |
| Cs-136 | Ci | | | | | |
| Cs-137 | Ci | | | | | |
| Ba-133 | Ci | | | | | |
| Ba-140 | Ci | | | | | |
| Ce-141 | Ci | | | | | |
| Ce-144 | Ci | | | i | | |
| TOTAL | Ci | None | None | None | None | None |

CHEMICAL CLEANING BUILDING

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-010/50-237/50-249

XX

GROUND LEVEL RELEASES SEMI-ELEVATED RELEASES ELEVATED RELEASES

CONTINUOUS MODE

| NUCLIDES RELEASED | UNIT | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | TOTAL |
|-------------------|------|---------------------|---------------------|---------------------|---------------------|-----------|
| FISSION GASES | | | | | | |
| Ar-41 | Ci | * | * | * | * | * |
| Kr-85 | Ci | * | * | * | * | * |
| Kr-85m | Ci | * | * | * | * | * |
| Kr-87 | Ci | * | * | * | * | * |
| Kr-88 | Ci | * | * | * | * | * |
| Xe-133 | Ci | * | * | * | * | * |
| Xe-133m | Ci | * | * | * | * | * |
| Xe-135 | Ci | * | * | * | * | * |
| Xe-135m | Ci | * | * | * | * | * |
| Xe-138 | Ci | * | * | * | * | * |
| TOTAL | Ci | None | None | None | None | None |
| IODINES | | | | | | |
| I-131 | Ci | * | * | * | * | * |
| I-133 | Ci | * | * | * | * | * |
| I-135 | Ci | * | * | * | * | * |
| TOTAL | Ci | None | None | None | None | None |
| PARTICULATES | | | | | | |
| Fe-55 | Ci | * | * | 2.75E-06 | 4.65E-08 | 2.79E-06 |
| Sr-89 | Ci | * | * | * | * | 2.7912-00 |
| Sr-90 | Ci | * | * | * | * | * |
| Be-7 | Ci | * | * | * | * | * |
| Cr-51 | Ci | * | * | * | * | * |
| Mn-54 | Ci | 1.57E-07 | * | 2.20E-07 | * | 3.77E-07 |
| Co-57 | Ci | * | * | * | * | 3.77L-07 |
| Co-58 | Ci | * | * | * | * | * |
| Fe-59 | Ci | * | * | * | * | * |
| Co-60 | Ci | 4.39E-07 | 8.00E-08 | * | * | 5.19E-07 |
| Zn-65 | Ci | * | * | * | * | * |
| Sr-85 | Ci | * | * | * | * | * |
| Zr-95 | Ci | * | * | * | * | * |
| Mo-99 | Ci | * | * | * | * | * |
| Ru-103 | Ci | * | * | * | * | * |
| Ag-110m | Ci | * | * | * | * | * |
| Sn-113 | Ci | * | * | * | * | * |
| Sb-124 | Ci | * | * | * | * | * |
| Sb-125 | Ci | * | * | * | * | * |
| Cs-134 | Ci | * | * | * | * | * |
| Cs-136 | Ci | * | * | * | * | * |
| Cs-137 | Ci | * | * | * | * | * |
| Ba-133 | Ci | * | * | * | * | * |
| Ba-140 | Ci | * | * | * | * | * |
| Ce-141 | Ci | * | * | * | * | * |
| Ce-144 | Ci | * | * | * | * | * |
| TOTAL | Ci | 5.96E-07 | 8.00E-08 | 2.97E-06 | 4.65E-08 | 3.69E-06 |

CHEMICAL CLEANING BUILDING

GASEOUS EFFLUENTS

DOCKET NUMBERS: 50-010/50-237/50-249

| | | |
|-------|----------|--|
| XX | X | |
| 1 1 1 | <u> </u> | |
| | | |

GROUND LEVEL RELEASES SEMI-ELEVATED RELEASES ELEVATED RELEASES

BATCH MODE

| NUCLIDES RELEASED | UNIT | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | TOTAL |
|-------------------|------|---------------------|---------------------|---------------------------------------|---|---------------------------------------|
| FISSION GASES | | | | | | |
| Ar-41 | Ci | | | | | · · · · · · · · · · · · · · · · · · · |
| Kr-85 | Ci | | | | - | |
| Kr-85m | Ci | | | | | |
| Kr-87 | Ci | | | | | |
| Кг-88 | Ci | | | | | |
| Xe-133 | Ci | | | | | |
| Xe-133m | Ci | | | | | 1 |
| Xe-135 | Ci | | | | | |
| Xe-135m | Ci | ····· | | | 1 | · |
| Xe-138 | Ci | | | | · · · · · · · · · · · · · · · · · · · | |
| TOTAL | Ci | None | None | None | None | None |
| IODINES | | • | | | | |
| I-131 | Ci | | | | | |
| I-133 | Ci | | | | | |
| I-135 | Ci | | | | | |
| TOTAL | Ci | None | None | None | None | None |
| PARTICULATES | | | | | | |
| Fe-55 | Ci | | | | · · · · · · · · · · · · · · · · · · · | |
| Sr-89 | Ci | | | | | |
| Sr-90 | Ci | | | | | |
| Be-7 | Ci | | | | | |
| Cr-51 | Ci | | | | | |
| Mn-54 | Ci | | | | | |
| Co-57 | Ci | | | | | |
| Co-58 | Ci | | | | 1 | |
| Fe-59 | Ci | | | | | |
| Co-60 | Ci | | | | | |
| Zn-65 | Ci | | | | · · · - · · · · · · · · · · · · · · · · | |
| Sr-85 | Ci | | | | | |
| Zr-95 | Ci | | | | | |
| Mo-99 | Ci | | | | | |
| Ru-103 | Ci | | | | | |
| Ag-110m | Ci | | | | | |
| Sn-113 | Ci | | | · · · · · · · · · · · · · · · · · · · | | |
| Sb-124 | Ci | | | | | |
| Sb-127 | Ci | | | | | |
| Cs-134 | Ci | | | | | |
| <u>Cs-134</u> | Ci | | | | | |
| Cs-130 | Ci | | | | | |
| Ba-133 | Ci | | | • | | |
| Ba-133 Ba-140 | Ci | | | | | |
| | Ci | | | | | |
| Ce-141 Ce-144 | Ci | | | | | |
| | | | | | | |
| TOTAL | Ci | None | None | None | None | None |

DOCKET NUMBERS: 50-010/50-237/50-249

TABLE OF LOWER LIMITS OF DETECTABILITY FOR LIQUID EFFLUENTS

| 1. | FISSION/ACTIVATION GASES | μCi/ml |
|----|--------------------------|----------|
| | Kr-87 | 1.00E-05 |
| | Kr-88 | 1.00E-05 |
| | Xe-133 | 1.00E-05 |
| | Xe-133m | 1.00E-05 |
| | Xe-135 | 1.00E-05 |
| | Xe-138 | 1.00E-05 |
| 2. | IODINES | μCi/ml |
| | I-131 | 1.00E-06 |
| 3. | PARTICULATES | μCi/ml |
| | Fe-55 | 1.00E-06 |
| | Sr-89 | 5.00E-08 |
| | Sr-90 | 5.00E-08 |
| | Mn-54 | 5.00E-07 |
| | Fe-59 | 5.00E-07 |
| | Co-58 | 5.00E-07 |
| | Co-60 | 5.00E-07 |
| | Zn-65 | 5.00E-07 |
| | Mo-99 | 5.00E-07 |
| | Cs-134 | 5.00E-07 |
| | Cs-137 | 5.00E-07 |
| | Ce-141 | 5.00E-07 |
| | Ce-144 | 5.00E-07 |
| 4. | OTHER | µCi/ml |
| | H-3 | 1.00E-05 |
| | Gross Alpha | 1.00E-07 |

The above values are the ODCM-required LLDs. Actual analyses always met the required LLDs.

DOCKET NUMBERS: 50-010/50-237/50-249

SUMMATION OF ALL LIQUID RELEASES

| | <u>UNITS</u> | 1 ST Quarter | 2 nd Quarter | <u>Est. Total</u> <u>Error, %</u> |
|--|--------------|---------------------------------------|-------------------------|--------------------------------------|
| A. FISSION & ACTIVATION PRODUCTS | | | | <u>Bitol, 79</u> |
| 1. Total Release (not including H-3, gases, alpha) | Ci | 7.67E-03 | 1.45E-02 | 10.6% |
| 2. Average Diluted Conc. During Period | µCi/ml | 6.06E-09 | 1.03E-08 | |
| 3. Percent of Technical Specification Limit | % | * | * | |
| | | · · · · · · · · · · · · · · · · · · · | | |
| | | | | |

B. TRITIUM

| 1. | Total Release | Ci | 3.71E+01 | 3.48E+01 | 11.4% |
|----|--|--------|----------|----------|-------|
| 2. | Average Diluted Conc. During Release | µCi/ml | 2.93E-05 | 2.47E-05 | |
| 3. | Percent of Technical Specification Limit | % | * | * | |

C. DISSOLVED AND ENTRAINED GASES

| 1. | Total Release | Ci | 5.28E-05 | 3.12E-05 | 5.58% |
|----|--|--------|----------|----------|-------|
| 2. | Average Diluted Conc. During Period | µCi/ml | 4.17E-11 | 2.21E-11 | |
| 3. | Percent of Technical Specification Limit | % | * | * | |

D. GROSS ALPHA ACTIVITY

| 1. Total Release | Ci | 1.85E-01 | <lld< th=""><th>15.1%</th></lld<> | 15.1% |
|------------------|----|----------|-----------------------------------|--------|
| | | | | 10.170 |

| Е. | VOLUME OF WASTE RELEASED (prior to dilution) | Liters | 6.36E+06 | 7.20E+06 | 5.00% |
|----|--|--------|----------|----------|-------|
| | VOLUME OF DULUTION WATER HORD | | | | |
| г. | VOLUME OF DILUTION WATER USED | Liters | 1.26E+09 | 1.40E+09 | 5.00% |

*The information is contained in the Radiological Impact on Man section of the report.

DOCKET NUMBERS: 50-010/50-237/50-249

SUMMATION OF ALL LIQUID RELEASES

| | | <u>UNITS</u> | 3 rd Quarter | 4 th Quarter | <u>Est. Total</u> <u>Error, %</u> |
|----------|---|--------------|---|-----------------------------------|--------------------------------------|
| <u> </u> | FISSION & ACTIVATION PRODUCTS | , | | | |
| | 1. Total Release (not including H-3, gases, alpha) | Ci | 4.98E+00 | 4.58E-01 | 10.6% |
| | 2. Average Diluted Conc. During Period | μCi/ml | 3.96E-06 | 6.97E-07 | |
| | 3. Percent of Technical Specification Limit | % | * | * | |
| B. | TRITIUM | | | | |
| | 1. Total Release | Ci | 6.15E+01 | 3.23E+01 | 11.4% |
| | 2. Average Diluted Conc. During Release | µCi/ml | 4.90E-05 | 4.92E-05 | |
| | 3. Percent of Technical Specification Limit | % | * | * | |
| <u> </u> | DISSOLVED AND ENTRAINED GASES 1. Total Release 2. Average Diluted Conc. During Period 2. Release | Ci µCi/ml | 2.98E-05 2.37E-11 | 9.64E-05 1.47E-10 | 5.58% |
| | 3. Percent of Technical Specification Limit | % | * | * | |
| | GROSS ALPHA ACTIVITY 1. Total Release | Ci | <lld< td=""><td><lld< td=""><td>15.1%</td></lld<></td></lld<> | <lld< td=""><td>15.1%</td></lld<> | 15.1% |
| E. | VOLUME OF WASTE RELEASED (prior to dilution) | Liters | 5.72E+06 | 7.59E+06 | 5.00% |
| | | | | | |
| F. | VOLUME OF DILUTION WATER USED DURING PERIOD | Liters | 1.25E+09 | 6.49E+08 | 5.00% |

*The information is contained in the Radiological Impact on Man section of the report.

RADWASTE LIQUID EFFLUENTS

DOCKET NUMBERS: 50-010/50-237/50-249

- 1. Number of Batch Releases:
- 2. Total Time for Batch Releases:
- 3. Maximum Time Period for a Batch Release:
 - e: 4.77E+02 minutes

5.10E+01

1.76E+04 minutes

- 4. Average Time Period for a Batch Release: 3.45E+02 minutes
- 5. Minimum Time Period for a Batch Release: 1.27E+02 minutes
- 6. Average Stream Flow During Periods of Release of Effluent into a Flowing Stream: 1.51E+05 lpm

| | | | CH MODE | CONTINU | OUS MODE |
|---------|------|---------------------|--------------|--|--|
| | Unit | 1 st QTR | 2^{nd} QTR | 1 st QTR | 2 nd QTR |
| Fe-55 | Ci | 3.26E-03 | 7.90E-03 | | |
| Sr-89 | Ci | * | * | | |
| Sr-90 | Ci | * | * | | |
| I-131 | Ci | * | * | | |
| I-132 | Ci | * | * | | |
| I-133 | Ci | * | * | | |
| I-134 | Ci | * | * | | |
| I-135 | Ci | * | * | | |
| Cr-51 | Ci | 3.28E-04 | 5.14E-05 | | |
| Mn-54 | Ci | 1.26E-03 | 2.57E-03 | | |
| Co-58 | Ci | * | * | | |
| Fe-59 | Ci | 4.08E-05 | * | ······································ | ······ |
| Co-60 | Ci | 2.22E-03 | 3.19E-03 | | |
| Zn-65 | Ci | * | * | | |
| As-76 | Ci | * | * | | |
| Zr-95 | Ci | * | * | | ······ |
| Mo-99 | Ci | * | * | | · · · · · · · · · · · · · · · · · · · |
| Tc-99m | Ci | * | * | | |
| Ru-103 | Ci | * | * | | |
| Ag-110m | Ci | 1.11E-05 | 3.27E-05 | | ······ |
| Sb-124 | Ci | * | * | | |
| Cs-134 | Ci | * | * | | |
| Cs-137 | Ci | 3.10E-04 | 7.70E-04 | | |
| Cs-138 | Ci | * | * | | |
| Ba-140 | Ci | * | * | | |
| La-140 | Ci | * | * | | · · · · · · · · · · · · · · · · · · · |
| Ce-141 | Ci | * | * | | ······································ |
| (above) | | | | | |
| Total | Ci | 7.44E-03 | 1.45E-02 | None | None |
| H-3 | Ci | 3.71E+01 | 3.47E+01 | 1.010 | 1,0110 |
| Kr-87 | Ci | * | * | | |
| Kr-88 | Ci | * | * | | ····· |
| Xe-133 | Ci | 5.28E-05 | 3.13E-05 | | |
| Xe-133m | Ci | * | * | | |
| Xe-135 | Ci | * | * | | |
| Xe-138 | Ci | * | * | | ······································ |

DRESDEN NUCLEAR POWER STATION UNITS 1, 2 AND 3 RADIOACTIVE EFFLUENT RELEASE REPORT

July Through December 2000

RADWASTE LIQUID EFFLUENTS

DOCKET NUMBERS: 50-010/50-237/50-249

- 1. Number of Batch Releases:
- 2. Total Time for Batch Releases:
- 1.25E+04 minutes 4.08E+02 minutes

3.70E+01

- 3. Maximum Time Period for a Batch Release: 4. Average Time Period for a Batch Release: 3.39E+02 minutes
- 5. Minimum Time Period for a Batch Release: 6.00E+00 minutes
- 6. Average Stream Flow During Periods of Release of Effluent into a Flowing Stream: 1.51E+05 lpm

| | | BATC | H MODE | CONTINU | OUS MODE |
|---------|------|---------------------|----------------------------|---------------------|---------------------------------------|
| | Unit | 3 rd QTR | 4^{th}QTR | 3 rd QTR | 4 th QTR |
| Fe-55 | Ci | 7.22E-04 | 4.73E-03 | | |
| Sr-89 | Ci | * | * | | |
| Sr-90 | Ci | * | * | | |
| Sr-91 | Ci | * | 5.30E-05 | | |
| I-131 | Ci | 3.43E-06 | * | | |
| I-132 | Ci | * | * | | ······ |
| I-133 | Ci | * | * | | |
| I-134 | Ci | * | * | | |
| I-135 | Ci | * | * | | |
| Cr-51 | Ci | * | 1.54E-03 | | |
| Mn-54 | Ci | 9.96E-04 | 1.35E-03 | | |
| Co-58 | Ci | * | 2.15E-04 | | |
| Fe-59 | Ci | * | 4.68E-04 | | |
| Co-60 | Ci | 2.80E-03 | 1.22E-03 | | ···· |
| Zn-65 | Ci | * | 1.65E-03 | | |
| As-76 | Ci | * | * | | |
| Zr-95 | Ci | * | * | | |
| Mo-99 | Ci | * | 1.30E-05 | | |
| Tc-99m | Ci | * | 2.80E-05 | | |
| Ru-103 | Ci | * | * | | |
| Ag-110m | Ci | * | 8.20E-05 | | · · · · · · · · · · · · · · · · · · · |
| Sb-124 | Ci | * | * | | |
| Cs-134 | Ci | * | * | | |
| Cs-137 | Ci | 5.25E-04 | 7.77E-05 | | |
| Cs-138 | Ci | * | * | | |
| Ba-140 | Ci | * | * | | |
| La-140 | Ci | * | * | | |
| Ce-141 | Ci | * | 8.06E-05 | | |
| (above) | | | | | |
| Total | Ci | 5.05E-03 | 1.15E-02 | None | None |
| H-3 | Ci | 6.15E+01 | 3.23E+01 | | |
| Kr-87 | Ci | * | * | | ···· |
| Kr-88 | Ci | * | * | | |
| Xe-133 | Ci | 2.99E-05 | 8.07E-05 | | |
| Xe-133m | Ci | * | * | | |
| Xe-135 | Ci | * | 1.58E-05 | | |
| Xe-138 | Ci | * | * | | |

CCSW LIQUID EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

- 1. Number of Batch Releases:
- 2. Total Time for Batch Releases:
- 3. Maximum Time Period for a Batch Release:
- 1.24E+00 minutes

7.74E+00minutes

6.00E+00

- 4. Average Time Period for a Batch Release: 1.24E+00 minutes
- 5. Minimum Time Period for a Batch Release: 1.24E+00 minutes
- 6. Average Stream Flow During Periods of Release of Effluent into a Flowing Stream: 9.46E+04 lpm

| | | BATC | CH MODE | CONTINU | OUS MODE |
|---------|------|---------------------|---------------------|---------------------|--|
| | Unit | 1 st QTR | 2 nd QTR | 1 st QTR | 2 nd QTR |
| Fe-55 | Ci | * | * | | |
| Sr-89 | Ci | * | * | | |
| Sr-90 | Ci | * | * | | |
| I-131 | Ci | * | * | | |
| I-132 | Ci | * | * | | |
| I-133 | Ci | * | * | | ······································ |
| I-134 | Ci | * | * | | |
| I-135 | Ci | * | * | | ······ |
| Cr-51 | Ci | * | * | | |
| Mn-54 | Ci | * | * | | |
| Co-58 | Ci | * | * | | |
| Fe-59 | Ci | * | * | | |
| Co-60 | Ci | * | * | | |
| Zn-65 | Ci | * | * | | |
| As-76 | Ci | * | * | | |
| Zr-95 | Ci | * | * | | |
| Mo-99 | Ci | * | * | | |
| Tc-99m | Ci | * | * | | |
| Ru-103 | Ci | * | * | | |
| Ag-110m | Ci | * | * | | |
| Sb-124 | Ci | * | * | | |
| Cs-134 | Ci | * | * | | |
| Cs-137 | Ci | * | 3.07E-06 | | |
| Cs-138 | Ci | * | * | | |
| Ba-140 | Ci | * | * | | |
| La-140 | Ci | * | * | | |
| Ce-141 | Ci | * | * | | |
| (above) | | | | | |
| Total | Ci | * | 3.07E-06 | None | None |
| H-3 | Ci | * | * | | |
| Kr-87 | Ci | * | * | | |
| Kr-88 | Ci | * | * | | |
| Xe-133 | Ci | * | * | | |
| Xe-133m | Ci | * | * | | |
| Xe-135 | Ci | * | * | | |
| Xe-138 | Ci | * | * | ····· | |

CCSW LIQUID EFFLUENTS

DOCKET NUMBERS: 50-237/50-249

- 1. Number of Batch Releases:
- 2. Total Time for Batch Releases:
- 3. Maximum Time Period for a Batch Release:
- 5.95E+01minutes 1.24E+00 minutes

4.80E+01

- 4. Average Time Period for a Batch Release: 1.24E+00 minutes
- 5. Minimum Time Period for a Batch Release: 1.24E+00 minutes
- 6. Average Stream Flow During Periods of Release of Effluent into a Flowing Stream: 9.46E+04 lpm

BATCH MODE CONTINUOUS MODE 3rd QTR 4th QTR Unit 3rd QTR 4th OTR Fe-55 Ci 9.76E-04 * Sr-89 Ci * * Sr-90 Ci * * I-131 Ci * * I-132 Ci * * I-133 Ci * * I-134 * Ci * I-135 Ci * * Cr-51 Ci * * Mn-54 Ci * * Co-58 Ci * * Fe-59 Ci * * * Co-60 Ci * Zn-65 * Ci * As-76 * Ci * Zr-95 Ci * * Mo-99 Ci * * Tc-99m * Ci * Ru-103 * Ci * Ag-110m Ci * * Sb-124 Ci * * Cs-134 * Ci * Cs-137 Ci 8.35E-06 1.94E-06 Cs-138 Ci * * Ba-140 Ci * * La-140 * Ci * Ce-141 Ci * * (above) Total Ci 9.84E-04 1.94E-06 None None H-3 Ci * * Kr-87 Ci * * Kr-88 Ci * * Xe-133 Ci * * Xe-133m * Ci * Xe-135 Ci * * Xe-138 Ci * *

DOCKET NUMBERS: 50-010/50-237/50-249

UNITS 1, 2 & 3 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

| 1. | Тур | e of Waste | Unit | 12-month period | Est. Total Error, % | |
|----|-----|--|----------------|--------------------|---------------------|--|
| | a. | Spent resins, filter sludges, evaporator bottoms, etc. | m ³ | 1.60E+02 | 1.259/ | |
| | | | Ci | 1.02E+03 | ± 25% | |
| | b. | Dry compressible waste, contaminated equipment, etc. | m ³ | 1.56E+03 | 1.250/ | |
| | | | Ci | 1.59E+01 | ± 25% | |
| | c. | Irradiated components, control rods, etc. | m ³ | 4.40E-01 | 1.259/ | |
| | | | Ci | 2.79E+02 | ± 25% | |
| | d. | Other (describe) - Contaminated Soil | m^3 | 4.78E+02 | 1.259/ | |
| | | Γ | | 5.34E-03 | ±25% | |

2. Estimate of Major Nuclide Composition (by type of waste)

a. Spent resins, filter sludges, evaporator bottoms, etc.

| Percent % | <u>Curies</u> |
|-----------|----------------------------------|
| 73.2% | 7.48E+02 |
| 17.3% | 1.77E+02 |
| 6.11% | 6.24E+01 |
| 1.83% | 1.87E+01 |
| 0.84% | 8.60E+00 |
| | 73.2% 17.3% 6.11% 1.83% |

b. Dry compressible waste, contaminated equipment, etc.

| | Percent % | Curies |
|-------|-----------|----------|
| Fe-55 | 64.2% | 1.02E+01 |
| Co-60 | 18.6% | 2.96E+00 |
| Mn-54 | 11.8% | 1.87E+00 |
| Fe-59 | 1.55% | 2.46E-01 |
| Cr-51 | 1.26% | 2.01E-01 |

c. Irradiated components, control rods, etc.

| | Percent % | <u>Curies</u> |
|--------|-----------|---------------|
| Co-60 | 55.7% | 1.55E+02 |
| Sb-125 | 26.6% | 7.41E+01 |
| Fe-55 | 11.9% | 3.32E+01 |
| Ni-63 | 4.93% | 1.37E+01 |
| Mn-54 | 0.40% | 1.12E+00 |

DOCKET NUMBERS: 50-010/50-237/50-249

UNIT 1, 2 & 3 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS (Cont.)

- 2. Estimate of Major Nuclide Composition (by type of waste) Continued
 - d. Other Contaminated Soil

| | Percent % | <u>Curies</u> |
|--------|-----------|---------------|
| H-3 | 81.8% | 4.37E-03 |
| Cs-137 | 8.60% | 4.59E-04 |
| Fe-55 | 4.06% | 2.17E-04 |
| Ni-63 | 2.57% | 1.37E-04 |
| Co-60 | 2.28% | 1.22E-04 |

3. Solid Waste Description

| NUMBER OF SHIPMENTS | MODE OF TRANSPORTATION | DESTINATION |
|---------------------|------------------------------------|----------------------------|
| 10 | Motor Freight (exclusive use only) | CNS, Barnwell, SC |
| 8 | Motor Freight (exclusive use only) | AERC, Oak Ridge, TN |
| 49 | Motor Freight (exclusive use only) | GTS Duratek, Oak Ridge, TN |
| 17 | Motor Freight (exclusive use only) | GTS Duratek, Kingston, TN |
| 11 | Motor Freight (exclusive use only) | ATG, Oak Ridge, TN |
| 6 | Motor Freight (exclusive use only) | ATG, Richland, WA |
| 16 | Motor Freight (exclusive use only) | Studsvik, Erwin, TN |

B. IRRADIATED FUEL SHIPMENTS (Disposition)

NUMBER OF SHIPMENTS

MODE OF TRANSPORTATION

DESTINATION

None

DOCKET NUMBER: 50-010/50-237/50-249

ABNORMAL RELEASES*

A. LIQUID

- 1.
 Number of Releases:
 5
- 2. Total Activity Releases: <u>5.69E+00 Ci</u>

B. GASEOUS

- 1.
 Number of Releases:
 4

 2.
 Total Activity Releases:
 2.67E-04 Ci
- A.1 In June, 1994, elevated tritium levels were discovered in the on-site storm sewers. The highest storm drain concentration, 4.02E+03 pCi/l from the 1st quarter was used for all of 2000. The total activity released is based on an estimated typical discharge flow of 10 gallons per minute. An estimated 8.02E-02 Ci of H-3 may have been released into the environment. Various storm sewer locations on-site are periodically analyzed for Tritium.
- A.2 On March 9th, a packing leak was discovered on the 2/3-2342-500 valve (Condensate Storage Tank HPCI Return Line). Based on visual inspections of the leak, a total volume of 10 gallons is estimated to have leaked from the packing. It is estimated that 2.39E-04 Ci of Co-60 may have been released to the environment.
- A.3 Monthly service water grab samples are sent offsite for analyses of H-3, Fe-55, Sr-89/90 and gross alpha and are analyzed onsite for gamma-emitting radionuclides. Results from samples taken in January, July, September and December show gross alpha and/or Fe-55 activity above the LLD. Specifically, 5.42E+00 Ci of Fe-55 and 1.85E-01 Ci of gross alpha activity are assumed to have been released in service water during 2000.
- A.4 On August 28th approximately one (1) gallon of water from the 1A Condensate Return Storage Tank (CST) was spilled in the area surrounding the tank. The water was discovered coming from a pump being used to process the contents of the tank. A sample from the tank contents was used to establish the radionuclide concentration of the spilled liquid:

| Co-60 | 2.81E-07 µCi/cc |
|--------|-----------------|
| Cs-137 | 8.24E-07 µCi/cc |

Based upon this analysis it is estimated that a total of 4.18E-09 Ci was discharged to the environment.

- A.5. From December 22-31, approximately 150 gallons of water from the Heating Steam system leaked from the piping in the Units 2/3 Cribhouse. Isotopic analysis of leaked water confirmed the presence of Co-60 at 1.401E-07 μCi/cc. Based upon this analysis, it is estimated that a total of 7.96E-08 Ci was discharged to the environment.
 - These releases are included in the Effluents Summation of all Releases Tables and in the Radiological Impact on Man.

DOCKET NUMBER: 50-010/50-237/50-249

ABNORMAL RELEASES* (Continued)

- B.1 The Unit 1 Main Turbine Floor (MTF) is used as an area to work on contaminated equipment. The ventilation, which exhausts through the Unit 1 Main Chimney, is no longer operational and the floor is at ambient pressure with the outside environment. With radiological work activities being performed on the MTF, the potential exists for airborne activity to be released to the environment through various potential release points. The estimated release through these points is 3.6E-05 Ci per year of Cs-137.
- B.2 The Chemistry Hotlab ventilation exhausts directly into the environment without any monitoring. The calculated release to the environment is 1.59E-04 Ci of noble gases and 6.86E-06 Ci of iodines/particulates.
- B.3 The Unit 2/3 heating steam system has low-level contamination present. During operation of the system, some steam is vented directly into the environment. The estimated activity released to the environment from this system during 2000 is as follows:

| Am-241 | 5.30E-08 Ci | Tc-99 | 3.86E-08 Ci |
|--------|-------------|--------|-------------|
| Co-60 | 1.05E-06 Ci | Mn-54 | 1.99E-07 Ci |
| Cs-137 | 1.18E-07 Ci | Sb-124 | 1.86E-08 Ci |
| Mo-99 | 3.53E-08 Ci | Zn-69m | 1.11E-08 Ci |

B.4 From past radiological surveys it was identified that the East Turbine Building Ventilation was found to be contaminated. This ventilation vents directly to the environment, therefore, a postulated release is calculated. The following activity is estimated to have been released via this pathway:

| Mn-54 | 2.44E-06 Ci |
|--------|-------------|
| Co-60 | 4.53E-06 Ci |
| Cs-137 | 2.54E-06 Ci |
| Ba-139 | 5.43E-05 Ci |

*

These releases are included in the Effluents Summation of all Releases Tables and in the Radiological Impact on Man.

DOCKET NUMBER: 50-010

RADIOLOGICAL IMPACT ON MAN*

UNIT 1

1. Airborne Releases

| | | Yearly Obj. | Percentage of | | | | |
|----------------|----------------|---------------------|---------------------|---------------------|---------------------|-----------|-------------|
| | Quarterly Obj. | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | | Yearly Obj. |
| Gamma Air | 5.0 mrad | 0.00 (e) | 0.00 (e) | 0.00 (e) | 0.00 (e) | 10.0 mrad | 0.00 (e) |
| Beta Air | 10.0 mrad | 0.00 (e) | 0.00 (e) | 0.00 (e) | 0.00 (e) | 20.0 mrad | 0.00 (e) |
| Total Body | 2.5 mrem | 0.00 (e) | 0.00 (e) | 0.00 (e) | 0.00 (e) | 5.0 mrem | 0.00 (e) |
| Skin | 7.5 mrem | 0.00 (e) | 0.00 (e) | 0.00 (e) | 0.00 (e) | 15.0 mrem | 0.00 (e) |
| Organ | 7.5 mrem | 0.00 (c) | 0.00 (c) | 0.00 (c) | 0.01 (c) | 15.0 mrem | 0.01 (c) |
| Critical Organ | | Lung | Liver | Liver | Bone | | Liver |

2. Liquid Releases

| | Percentage of Quarterly Objective | | | | | Yearly Obj. | Percentage of |
|----------------|-----------------------------------|---------------------|---------------------|---------------------|---------------------|-------------|---------------|
| | Quarterly Obj. | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | | Yearly Obj. |
| Total Body | 1.5 mrem | None | None | None | None | 3.0 mrem | None |
| Organ | 5.0 mrem | None | None | None | None | 10.0 mrem | None |
| Critical Organ | | None | None | None | None | | None |

* The doses reported include abnormal releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

DOCKET NUMBER: 50-237

RADIOLOGICAL IMPACT ON MAN*

UNIT 2

1. Airborne Releases

| | Percentage of Quarterly Objective | | | | | Yearly Obj. | Percentage of |
|----------------|-----------------------------------|---------------------|---------------------|---------------------|---------------------|-------------|---------------|
| | Quarterly Obj. | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | | Yearly Obj. |
| Gamma Air | 5.0 mrad | 0.00 (e) | 0.00 (e) | 0.00 (e) | 0.00 (e) | 10.0 mrad | 0.01 (e) |
| Beta Air | 10.0 mrad | 0.00 (e) | 0.00 (e) | 0.00 (e) | 0.00 (e) | 20.0 mrad | 0.00 (e) |
| Total Body | 2.5 mrem | 0.00 (e) | 0.00 (e) | 0.01 (e) | 0.00 (e) | 5.0 mrem | 0.01 (e) |
| Skin | 7.5 mrem | 0.00 (e) | 0.00 (e) | 0.00 (e) | 0.00 (e) | 15.0 mrem | 0.00 (e) |
| Organ | 7.5 mrem | 0.01 (c,t) | 0.00 (c) | 0.01 (c) | 0.01 (c) | 15.0 mrem | 0.01 (c) |
| Critical Organ | | Lung | Thyroid | Thyroid | Thyroid | | Thyroid |

2. Liquid Releases

| | Percentage of Quarterly Objective | | | | | Yearly Obj. | Percentage of |
|---------------------------------------|-----------------------------------|---------------------|---------------------|---------------------|---------------------|-------------|---------------|
| · · · · · · · · · · · · · · · · · · · | Quarterly Obj. | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | | Yearly Obj. |
| Total Body | 1.5 mrem | 0.01 (a) | 0.01 (a) | 0.03 (c) | 0.01 (c) | 3.0 mrem | 0.03 (c) |
| Organ | 5.0 mrem | 0.00 (c) | 0.01 (c) | 0.03 (c) | 0.00 (c) | 10.0 mrem | 0.02 (c) |
| Critical Organ | | Liver | Liver | Bone | Liver | | Bone |

* The doses reported include abnormal releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

DOCKET NUMBER: 50-249

RADIOLOGICAL IMPACT ON MAN*

UNIT 3

1. Airborne Releases

| | | Yearly Obj. | Percentage of | | | | |
|----------------|----------------|---------------------|---------------------|---------------------|---------------------|------------|-------------|
| | Quarterly Obj. | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | , <u> </u> | Yearly Obj. |
| Gamma Air | 5.0 mrad | 0.01 (e) | 0.01 (e) | 0.01 (e) | 0.01 (e) | 10.0 mrad | 0.02 (e) |
| Beta Air | 10.0 mrad | 0.00 (e) | 0.00 (e) | 0.00 (e) | 0.00 (e) | 20.0 mrad | 0.00 (e) |
| Total Body | 2.5 mrem | 0.02 (e) | 0.02 (e) | 0.02 (e) | 0.01 (e) | 5.0 mrem | 0.03 (e) |
| Skin | 7.5 mrem | 0.01 (e) | 0.01 (e) | 0.01 (e) | 0.00 (e) | 15.0 mrem | 0.01 (e) |
| Organ | 7.5 mrem | 0.03 (c) | 0.09 (c) | 0.12 (c) | 0.07 (c) | 15.0 mrem | 0.15 (c) |
| Critical Organ | | Thyroid | Thyroid | Thyroid | Thyroid | | Thyroid |

2. Liquid Releases

| | Percentage of Quarterly Objective | | | | | Yearly Obj. | Percentage of |
|----------------|-----------------------------------|---------------------|---------------------|---------------------|---------------------|-------------|---------------|
| | Quarterly Obj. | 1 st QTR | 2 nd QTR | 3 rd QTR | 4 th QTR | | Yearly Obj. |
| Total Body | 1.5 mrem | 0.01 (a) | 0.01 (a) | 0.06 (c) | 0.01 (c) | 3.0 mrem | 0.05 (c) |
| Organ | 5.0 mrem | 0.00 (c) | 0.01 (c) | 0.09 (c) | 0.01 (c) | 10.0 mrem | 0.05 (c) |
| Critical Organ | | Liver | Liver | Bone | Bone | | Bone |

* The doses reported include abnormal releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

ComEd DRESDEN STATION

35 ft. WIND SPEED and WIND DIRECTION

January-March 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2174 VALUES ARE PERCENT OCCURRENCE

| SPEED | | | | | | | - WIND | DIRE | CTION (| CLASSES | s | | | | | | | | | STAB | ILITY | CLASSE | s | |
|-------|------|------|------|------|------|------|--------|------|---------|---------|------|------|------|------|------|------|-------|------|-----|------|-------|--------|------|------|
| CLASS | N | NNE | NE | ENE | Ε | ESE | SE | SSE | s | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | ES |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| C SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| A N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | .00 | | | |
| L SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| M MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | | | | | | .05 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .05 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| 1 SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| - N | .09 | .05 | .00 | .00 | . 09 | .09 | .00 | .14 | .00 | .05 | .00 | . 14 | .05 | .00 | .05 | .09 | .83 | | | | .83 | | | |
| 3 SS | .41 | .37 | .05 | .28 | .09 | .23 | . 18 | .32 | . 18 | . 14 | .41 | .23 | . 18 | . 14 | .28 | . 28 | 3.77 | | | | | 3.77 | | |
| MS | .32 | . 18 | .05 | .05 | .05 | . 18 | . 14 | . 14 | . 14 | .32 | .41 | .28 | .37 | .28 | .41 | .23 | 3.54 | | | | | | 3.54 | |
| ES | .05 | .05 | .00 | .00 | . 05 | .05 | .00 | . 18 | .09 | . 14 | . 14 | . 14 | .28 | .23 | .37 | . 14 | 1.89 | | | | | | | 1.89 |
| EU | .09 | .05 | .28 | .00 | .00 | .05 | .00 | .00 | .00 | .05 | .00 | .05 | .05 | .09 | . 14 | . 18 | 1.01 | 1.01 | | | | | | |
| MU | . 09 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .09 | .32 | | .32 | | | | | |
| 4 SU | . 14 | . 09 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .05 | .05 | .00 | .00 | .09 | .60 | | | .60 | | | | |
| - N | .41 | .51 | .60 | .51 | .87 | .64 | .23 | .51 | .92 | .23 | .23 | .41 | .32 | .37 | .37 | .32 | 7.45 | | | | 7.45 | | | |
| 7 SS | .60 | .51 | .46 | .87 | 1.66 | .60 | .37 | 1.15 | 1.79 | 1.33 | .46 | . 14 | 1.56 | .60 | 1.06 | 1.10 | 14.26 | | | | | 14.26 | | |
| MS | .00 | .00 | .37 | .23 | . 14 | .32 | . 18 | .09 | .37 | .92 | 1.01 | . 18 | 1.20 | 1.33 | .46 | .32 | 7.13 | | | | | | 7.13 | |
| ES | .00 | .00 | .00 | .05 | . 09 | .46 | .00 | .00 | .14 | .37 | .74 | . 18 | .00 | .23 | . 14 | . 09 | 2.48 | | | | | | | 2.48 |
| EU | .28 | .28 | .05 | .09 | .05 | .14 | .09 | .00 | .00 | .00 | .05 | .05 | .05 | .32 | .28 | .23 | 1.93 | 1.93 | | | | | | |
| MU | .00 | . 18 | .00 | . 05 | .00 | .00 | .14 | .00 | .00 | .00 | .05 | .23 | . 05 | . 09 | .00 | .14 | . 92 | | .92 | | | | | |
| 8 SU | .00 | .00 | .00 | .05 | .09 | .14 | .05 | .00 | .09 | .09 | .05 | . 14 | .09 | .09 | .00 | .14 | 1.01 | | | 1.01 | | | | |
| - N | .46 | .60 | .55 | .64 | 1.24 | 1.01 | .46 | .32 | .87 | .46 | .41 | .64 | .87 | 1.33 | . 92 | .92 | 11.73 | | | | 11.73 | | | |
| 1 SS | .46 | .64 | .97 | .55 | .97 | .97 | .37 | 1.70 | 2.81 | 1.43 | 1.06 | . 74 | 2.39 | 1.47 | 1.56 | .97 | 19.04 | | | | | 19.04 | | |
| 2 MS | .00 | .09 | .05 | .09 | .23 | .23 | .00 | .00 | .05 | . 18 | . 18 | .05 | .00 | .00 | .00 | .00 | 1.15 | | | | | | 1.15 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| EU | .00 | . 18 | .14 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .05 | .41 | .78 | .23 | . 14 | 2.02 | 2 02 | | | | | | |
| 1 MU | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .05 | .05 | .14 | .14 | .09 | .14 | .05 | . 09 | .78 | | .78 | | | | | |
| 3 SU | .00 | .05 | .00 | .00 | .00 | .05 | .00 | .00 | .05 | .14 | .23 | .05 | .09 | .09 | .09 | .05 | .87 | | | .87 | | | | |
| - N | .00 | . 09 | .00 | .00 | .37 | .55 | .09 | .87 | .83 | .92 | .32 | .37 | .74 | | .46 | .74 | 7.50 | | | | 7.50 | | | |
| 1 SS | .00 | .18 | . 18 | .00 | .00 | .05 | .09 | 1.01 | 1.43 | .74 | .37 | .74 | .55 | .37 | .37 | .32 | 6.39 | | | | | 6.39 | | |
| 8 MS | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .18 | | | | | | . 18 | |
| ES | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | | | | | .05 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

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ComEd DRESDEN STATION

35 ft. WIND SPEED and WIND DIRECTION

January-March 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

| SPEED |) | | · · · · · · · | • • • • • • | ••••• | •••• | - WIND | DIRE | CTION C | LASSES | | | ••••• | ••••• | | • • • • • • | | ••• | ••••• | STABL | LITY C | LASSES | ••••• | |
|-------|------|------|---------------|-------------|-------|------|--------|------|---------|--------|------|------|-------|-------|------|-------------|--------|------|-------|-------|--------|---------|-------|------|
| CLASS | S N | NNE | NE | ENE | Έ | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | Ν | SS | MS | ES |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .05 | .05 | | | | | | |
| 1 MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | .00 | .09 | .00 | .00 | .00 | .00 | .00 | .05 | .09 | | | | | |
| 9 SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | | | .09 | | | | |
| · N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .28 | | .14 | .09 | .05 | .37 | .05 | .00 | .00 | 1.47 | | | | 1,47 | | | |
| 2 SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .46 | | .14 | .00 | .05 | .05 | .00 | .00 | .00 | 1.01 | | | | 2.17 | 1.01 | | |
| 4 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | | | | .05 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | , | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| G MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| t su | .00 | . 00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | | | | .14 | | | |
| 2 SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 14 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 14 | | | | | .14 | | |
| 4 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| TOT | 3.40 | 4.14 | 3.91 | 3.45 | 6.03 | 5.75 | 2.39 | 7.27 | 10.99 | 7.87 | 6.58 | 5.15 | 9.80 | 9.25 | 7.31 | 6.72 | 100.00 | 5.06 | 2.12 | 2.58 | 29.12 | 44.62 1 | 12.10 | 4.42 |

Wind Direction by Stability

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~

| Ν | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SS₩ | SW | WSW | W | WNW | NW | NNW | TOTAL | -STABILITY CLASSES. |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------------|
| | | | | | | | | | | | | | | | | | |
| .37 | .51 | .46 | .09 | .05 | . 18 | .09 | .00 | .00 | .05 | . 14 | . 14 | .51 | 1.24 | .64 | .60 | 5.06 | Extremely Unstable |
| .09 | .23 | .00 | .05 | .05 | .00 | . 14 | .00 | .05 | .05 | . 18 | .46 | . 14 | .28 | .09 | .32 | 2.12 | Moderately Unstable |
| . 14 | . 14 | .09 | .05 | .09 | . 18 | .05 | .00 | .23 | .23 | .37 | .23 | .23 | . 18 | .09 | .28 | 2.58 | Slightly Unstable |
| .97 | 1.24 | 1.15 | 1.15 | 2.58 | 2.30 | .78 | 2.12 | 3.22 | 1.84 | 1.06 | 1.61 | 2.35 | 2.90 | 1.79 | 2.07 | 29.12 | Neutral |
| 1.47 | 1.70 | 1.66 | 1.70 | 2.71 | 1.84 | 1.01 | 4.65 | 6.67 | 3.77 | 2.30 | 1.89 | 4.74 | 2.58 | 3.27 | 2.67 | 44.62 | Slightly Stable |
| .32 | .28 | .51 | .37 | .41 | .74 | .32 | .32 | .60 | 1.43 | 1.66 | .51 | 1.56 | 1.61 | . 92 | .55 | 12.10 | Moderately Stable |
| .05 | .05 | .05 | .05 | . 14 | .51 | .00 | . 18 | .23 | .51 | .87 | .32 | .28 | .46 | .51 | .23 | 4.42 | Extremely Stable |

Wind Direction by Wind Speed

| N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL. | -WIND SPEED CLASSES |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|---------------------|
| | | | | | | | | | | | | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | CALM |
| .87 | .64 | .09 | .32 | .28 | . 55 | .32 | . 78 | .41 | .64 | . 97 | . 78 | .87 | .64 | 1.10 | .78 | 10.07 | 1.0 · 3.5 mph |
| 1.33 | 1.20 | 1.79 | 1.66 | 2.76 | 2.07 | .78 | 1.75 | 3.22 | 2.90 | 2.53 | 1.01 | 3.17 | 2.67 | 2.21 | 2.21 | 33.26 | 3.6 - 7.5 mph |
| 1.20 | 1.79 | 1.61 | 1.47 | 2.58 | 2.48 | 1.10 | 2.02 | 3.82 | 2.16 | 1.79 | 1.84 | 3.45 | 3.31 | 2.76 | 2.39 | 35.79 | 7.6 · 12.5 mph |
| .00 | .51 | .41 | .00 | .41 | .64 | . 18 | 1.93 | 2.39 | 1.84 | 1.20 | 1.33 | 1.89 | 2.53 | 1.20 | 1.33 | 17.80 | 12.6 · 18.5 mph |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 78 | .92 | .28 | .09 | . 18 | .41 | .09 | .00 | .00 | 2.76 | 18.6 · 24.5 mph |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .23 | . 05 | .00 | .00 | .00 | .00 | .00 | .00 | . 28 | > 24.5 mph |

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April-June 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2181 VALUES ARE PERCENT OCCURRENCE

| SPEED | | | | | | | - WINE | DIREG | CTION C | LASSE | s | | | | · · · · · · · | | | | | - STAB | LITY | CLASSE | 5 | |
|-------------|------------|------------|------------|------------|-------------|------------|------------|------------|-------------|------------|-----------------|-------------|-------------|------------|---------------|------|--------------|------|-----|--------|-------|--------|------|------|
| CLASS | N | NNE | NE | ENE | Ε | ESE | SE | SSE | s | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | ES |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| C SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| A N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | .00 | | | |
| L SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| M MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | . 05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| 1 SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .05 | | | .05 | | | | |
| • N | . 14 | .23 | . 14 | . 14 | .09 | . 09 | .32 | .05 | .09 | . 14 | . 18 | .05 | . 18 | .23 | .09 | .09 | 2.25 | | | | 2.25 | | | |
| 3 SS | .55 | . 18 | .32 | .37 | .32 | .09 | .09 | .55 | . 18 | .28 | .32 | . 18 | .23 | . 14 | .41 | .60 | 4.81 | | | | | 4.81 | | |
| MS | .05 | .05 | . 14 | .23 | . 14 | .46 | .37 | .46 | .09 | .05 | .23 | . 14 | .55 | .41 | .78 | .46 | 4.59 | | | | | | 4.59 | |
| ES | .05 | .09 | .00 | .00 | . 18 | .28 | .14 | .23 | .09 | .37 | .37 | .05 | . 18 | .09 | . 18 | .23 | 2.52 | | | | | | | 2.52 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .18 | .41 | .60 | .09 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .46 | | 1.79 | | | | | | |
| MU | .05 | .28 | .14 | . 14 | . 14 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .09 | .92 | | .92 | 02 | | | | |
| 4 SU • N | .00 .37 | .05 .60 | .00 .64 | .05 .73 | .09 1.01 | .09 .55 | .00 .55 | .00 .41 | .00 1.01 | .00 .78 | .05 .64 | .00 1.05 | .09 1.05 | .09 .55 | .05 .41 | .28 | .83 11.14 | | | .83 | 11.14 | | | |
| 7 SS | .92 | .60 | 2.06 | 1.60 | 1.65 | 1.05 | .55 | 1.83 | 1.83 | 1.28 | .37 | .64 | 1.05 | 1.01 | 1.05 | .70 | 18.39 | | | | 11.14 | 18.39 | | |
| MS | . 14 | .14 | .37 | .00 | .32 | .60 | .50 | .41 | .50 | .78 | .78 | .14 | .46 | .37 | .18 | .18 | 5.87 | | | | | 10.55 | 5.87 | |
| ES | .05 | .00 | .05 | .00 | .05 | .18 | .05 | .05 | .00 | .14 | .50 | .00 | .00 | .05 | .05 | .09 | 1.24 | | | | | | 5.0/ | 1.24 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| £U | .00 | .37 | . 50 | . 18 | .00 | .00 | .00 | .00 | .00 | .09 | . 14 | .23 | . 09 | . 55 | .09 | .28 | 2 52 | 2.52 | | | | | | |
| MU | .05 | .05 | .00 | .05 | .00 | .00 | .05 | .00 | .00 | .00 | . 14 | .05 | .09 | .05 | .05 | .00 | .60 | 2.52 | .60 | | | | | |
| 8 SU | .00 | .05 | .05 | .09 | .05 | .00 | .09 | .09 | .00 | .00 | .00 | . 14 | .09 | .23 | .05 | .14 | 1.05 | | | 1.05 | | | | |
| - N | .28 | .83 | .64 | .55 | .55 | .28 | .46 | .83 | .73 | 1.24 | 1.28 | .69 | . 55 | .50 | .50 | | 10.32 | | | | 10.32 | | | |
| 1 SS | .69 | .55 | .73 | .50 | .32 | .96 | .41 | 1.51 | 2.38 | 2.11 | 1.51 | .50 | .46 | .64 | . 78 | | 14.26 | | | | | 14.26 | | |
| 2 MS | .00 | .00 | .05 | .05 | .00 | .09 | .00 | .00 | . 14 | .50 | .32 | .05 | .05 | .00 | . 05 | .00 | 1.28 | | | | | | 1.28 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | | | | | . 05 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .32 | .05 | .00 | .00 | .00 | .05 | .05 | . 14 | . 18 | .09 | . 18 | .41 | .37 | . 18 | 2.02 | 2.02 | | | | | | |
| 1 MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .0 9 | . 18 | .05 | .05 | . 14 | .09 | .69 | | .69 | | | | | |
| 3 SU | .09 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .05 | .23 | .09 | .09 | . 14 | .09 | .05 | .00 | .92 | | | .92 | | | | |
| - N | .14 | .09 | .00 | .00 | .00 | .00 | .05 | .50 | .87 | 1.10 | .64 | .28 | . 18 | .87 | .28 | . 18 | 5.18 | | | | 5.18 | | | |
| 1 SS | .28 | .05 | .14 | .00 | .05 | .50 | .05 | .23 | 1.05 | 1.05 | .55 | . 18 | .46 | . 18 | . 14 | .60 | 5.50 | | | | | 5.50 | | |
| 8 MS | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | | | | .05 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

April-June 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

| SPEED | | WIND DIRECTION CLASSES WIND DIRECTION CLASSES WIND WIND WIND NUM | | | | | | | | | | | | | | | •••• | | STABI | .ITY CI | ASSES | | | |
|-------|-----|--|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-------|-----|-------|---------|-------|-----|-----|-----|
| CLASS | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SS₩ | SW | WSW | W | WNW | NW | NN₩ | TOTAL | EU | MU | SU | N | SS | MS | ES |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .05 | .05 | | | | | | |
| 1 MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .05 | | .05 | | | | | |
| 9 SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .05 | | | .05 | | | | |
| - N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | . 18 | . 18 | .09 | .00 | .00 | .00 | .00 | .00 | .50 | | | | .50 | | | |
| 2 SS | .00 | .00 | .00 | .00 | .00 | .09 | .05 | .00 | .05 | .09 | .05 | .00 | .00 | .00 | .00 | .00 | .32 | | | | | .32 | | |
| 4 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| GMU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| T SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | | | .00 | .14 | | | |
| 2 SS | .00 | .00 | .00 | .00 | .00 | | | .00 | | .00 | | | | | | | | | | | . 14 | | | |
| | | | | | | .00 | .00 | | .00 | | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| 4 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | | | | .05 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

TOT 3.99 4.59 6.88 4.81 5.04 5.36 3.76 7.47 9.35 10.77 8.67 4.72 6.14 6.56 5.73 6.14 100.00 6.42 2.25 2.89 29.53 43.28 11.83 3.81

Wind Direction by Stability

| N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | STABILITY CLASSES |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------------------------------|
| | | | | | | | | | | | | | | | | | |
| .18 | .78 | 1.42 | .32 | .05 | .05 | .00 | .05 | .05 | .23 | .32 | .32 | .28 | 1.01 | .46 | .92 | 6.42 | Extremely Unstable |
| . 09 | .32 | .14 | . 18 | . 14 | .00 | .05 | .05 | .00 | .14 | .28 | .23 | .14 | .09 | .23 | . 18 | 2.25 | Moderately Unstable |
| .09 | . 09 | .05 | . 14 | . 14 | .09 | .09 | . 18 | .05 | .23 | .23 | .23 | .32 | .41 | .14 | .41 | 2.89 | Slightly Unstable |
| . 92 | 1.74 | 1.42 | 1.42 | 1.65 | .92 | 1.38 | 1.93 | 2.93 | 3.44 | 2.84 | 2.06 | 1.97 | 2.15 | 1.28 | 1.47 | 29.53 | Neutral |
| 2.43 | 1.38 | 3.26 | 2.48 | 2.34 | 2.71 | 1.19 | 4.13 | 5.50 | 4.81 | 2.80 | 1.51 | 2.20 | 1.97 | 2.38 | 2.20 | 43.28 | Slightly Stable |
| . 18 | . 18 | . 55 | .28 | .50 | 1.15 | .87 | .87 | .73 | 1.38 | 1.33 | .32 | 1.05 | . 78 | 1.01 | .64 | 11.83 | Moderately Stable |
| . 09 | . 09 | .05 | .00 | .23 | .46 | .18 | .28 | . 09 | . 55 | .87 | .05 | . 18 | . 14 | .23 | .32 | 3.81 | Extremely Stable |

Wind Direction by Wind Speed

| N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | -WIND SPEED CLASSES- |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------|
| | | | | | | | | | | | | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | CALM |
| .78 | .55 | .60 | .73 | . 78 | . 92 | . 92 | 1.28 | .46 | .83 | 1.15 | .41 | 1.15 | .87 | 1.47 | 1.38 | 14.26 | 1.0 - 3.5 mph |
| 1.70 | 2.06 | 3.85 | 2.61 | 3.26 | 2.52 | 1.70 | 2.71 | 3.35 | 3.03 | 2.34 | 1.83 | 2.66 | 2.06 | 1.79 | 2.71 | 40.17 | 3.6 - 7.5 mph |
| 1.01 | 1.83 | 1.97 | 1.42 | .92 | 1.33 | 1.01 | 2.48 | 3.26 | 3.99 | 3.39 | 1.65 | 1.33 | 1.97 | 1.51 | 1.01 | 30.08 | 7.6 - 12.5 mph |
| .50 | .14 | .46 | .05 | .09 | .50 | .09 | .87 | 2.02 | 2.61 | 1.56 | .83 | 1.01 | 1.60 | .96 | 1.05 | 14.35 | 12.6 - 18.5 mph |
| .00 | .00 | .00 | .00 | .00 | .09 | .05 | .05 | .23 | .28 | .23 | .00 | .00 | .05 | .00 | .00 | .96 | 18.6 · 24.5 mph |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | . 18 | > 24.5 mph |

July-September 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2208 VALUES ARE PERCENT OCCURRENCE

| SPEED | ••• | | | ••••• | • • • • • • • | | - WIN | DIRE | CTION | CLASSES | | | | | | | | | | - STAB | ILITY | CLASSE | s | |
|------------|-------------|--------------|------------|------------|---------------|------------|------------|------------|------------|------------|------------|--------------|-------------|------------|-------------|-------------|--------------|-------|------|--------|-------|--------|------|------|
| CLASS | N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | | SS | MS | ES |
| 511 | 00 | | | | | | | | | | | | | | | | | | | | | | | |
| eu Mu | .00. .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00. .00 | .00 .00 | .00. .00 | .00 | .00 | .00 | 00 | | | | | |
| C SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00. .00 | .00 .00 | | .00 | .00 | | | | |
| AN | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | .00 | | | |
| L SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| M MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | | | | | | |
| MU | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | | . 14 | | | | | |
| 1 SU | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | | | .09 | | | | |
| - N | .36 | . 18 | . 14 | .14 | .00 | .05 | .00 | .00 | .05 | . 14 | . 14 | .09 | .09 | .00 | .23 | .27 | 1.86 | | | | 1.86 | | | |
| 3 SS MS | 1.09 .68 | .68 .32 | .32 .23 | .32 .23 | .27 .27 | .27 .27 | .27 .14 | .41 .45 | .23 .32 | .36 | .41 | .41 | .32 | .27 | . 50 | .95 | 7.07 | | | | | 7.07 | c | |
| ES | . 14 | .00 | .23 | .23 | .00 | . 09 | . 14 | .45 | . 32 | .36 .41 | .41 .32 | . 14 . 09 | .41 .05 | .59 27 | .95 1.09 | 1.18 .41 | 6.93 3.26 | | | | | | 6.93 | 2.00 |
| 20 | | .00 | .00 | .05 | .00 | .05 | .25 | .05 | .05 | .41 | . JC | .05 | .05 | .27 | 1.09 | .41 | 3.20 | | | | | | | 3.26 |
| EIJ | .86 | .86 | 1.13 | .54 | .50 | .23 | .27 | .36 | . 18 | .09 | .00 | .32 | .41 | . 18 | .45 | 1.04 | 7.43 | 7.43 | | | | | | |
| MU | .05 | .05 | .27 | . 14 | . 14 | .05 | .05 | .00 | .09 | .09 | .05 | .00 | .14 | .05 | .41 | . 18 | 1.72 | | 1.72 | | | | | |
| 4 SU | .23 | .23 | . 18 | .14 | . 14 | . 14 | .00 | . 14 | .23 | .14 | .00 | . 14 | .05 | .05 | .23 | .27 | 2.26 | | | 2.26 | | | | |
| ۰N | . 82 | .77 | .95 | .82 | .91 | . 18 | .41 | .54 | .91 | .50 | .23 | .54 | .41 | .91 | .86 | .86 | 10.60 | | | | 10.60 | | | |
| 7 SS | . 91 | 1.27 | 3.08 | 1.95 | 2.17 | 1.00 | 1.04 | 2.85 | 2.54 | 1.86 | .82 | .68 | 1.59 | .68 | .77 | .68 | 23.87 | | | | | 23.87 | | |
| MS | .27 | .05 | .00 | .00 | .18 | .68 | .50 | .63 | .27 | .86 | .63 | .05 | . 18 | . 23 | . 50 | .41 | 5.43 | | | | | | 5.43 | |
| ES | .00 | .00 | .05 | . 00 | .00 | .14 | .05 | .00 | . 09 | . 14 | . 54 | .09 | .00 | .00 | . 00 | .00 | 1.09 | | | | | | | 1.09 |
| ru. | 22 | 10 | 45 | 00 | 22 | 45 | 07 | 26 | | 1 00 | 20 | ~~ | ••• | | | | | - ··· | | | | | | |
| EU MU | .23 .00 | . 18 . 05 | .45 .05 | .23 .05 | .23 .00 | .45 .05 | .27 .05 | .36 .09 | .27 | | .32 | .68 | .32 | .09 | . 14 | .27 | | 5.48 | 1 07 | | | | | |
| 8 SU | .00 | .05 | .05 | .05 | .00 | .05 | .18 | . 14 | .36 .18 | .27 | .09 .14 | . 18 . 23 | .05 .09 | .00 .05 | .00 .05 | .00 .00 | 1.27 1.59 | | 1.27 | 1.59 | | | | |
| • N | .05 | .18 | .59 | .09 | .41 | .03 | .63 | .68 | 1.13 | 1.18 | .72 | .86 | .54 | . 14 | . 18 | .00 | 7.74 | | | 1.35 | 7.74 | | | |
| 1 SS | .00 | .05 | .72 | .09 | .77 | .82 | .72 | 1.09 | 2.54 | .82 | .45 | .23 | .36 | .09 | . 14 | .00 | 8.88 | | | | 1.74 | 8.88 | | |
| 2 MS | .00 | .00 | .00 | .00 | .00 | .09 | . 14 | . 14 | .23 | .09 | .00 | .05 | .00 | .05 | .00 | .00 | .77 | | | | | 0.00 | .77 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | . 18 | .23 | . 14 | .00 | .00 | .00 | .00 | .00 | . 59 | . 59 | | | | | | |
| 1 MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 09 | . 09 | .05 | .00 | .00 | .00 | .00 | .00 | .23 | | .23 | | | | | |
| 3 SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .09 | .00 | .00 | .00 | .00 | .00 | . 18 | | | . 18 | | | | |
| • N | .00 | .00 | .00 | .00 | .00 | .00 | . 14 | . 14 | . 14 | .27 | . 14 | .00 | .00 | .00 | .00 | . 05 | .86 | | | | .86 | | | |
| 1 SS | .00 | .00 | .00 | .00 | .00 | .09 | .23 | .05 | .05 | . 18 | .00 | .00 | .00 | .00 | .00 | .00 | .59 | | | | | . 59 | | |
| 8 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |

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July-September 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

| ••• | | INF NF ENF E ESE SE SSE SUBJUE UND AND TOTAL | | | | | | | | | | | | | | •••• | | STABI | LITY C | ASSES. | ••••• | •••• | |
|-----|--|---|--|--|---|--|---|---|---|---|--|--|---|--|---|---|---|---|---|--|--|--|--|
| N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | ES |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | | .05 | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
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| | | | | | | | | | | | | | | | | | | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | .00 | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | | .00 |
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| | N .00 .00 .00 .00 .00 .00 .00 .00 .00 .0 | N NNE .00 .00 | N NNE NE .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 | N NNE NE ENE .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 | N NNE NE ENE E .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 | N NNE NE ENE E ESE .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 <t< td=""><td>N NNE NE ENE E ESE SE .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00</td><td>N NNE NE ENE E ESE SE SSE .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00</td><td>N NNE NE ENE E ESE SE SSE S .00</td><td>N NNE NE ENE E ESE SE SSE S SSM .00</td><td>N NNE NE ENE E ESE SE SSE S SSM SM .00 <</td><td>N NNE NE ENE E ESE SE SSE S SSM SM WSM .00 <</td><td>N NNE NE ENE E ESE SE SSE S SSH SW WSW W .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SSM SM WSM W WNM .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SSM SM WSM W WNM NM .00</td><td>N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNM NM NNW .00</td><td>N NNE NE ENE E ESE SE SSE S SM WSM W NM NM NM NNW TOTAL .00</td><td>N NNE NE ENE E ESE SE SSE S SM WSM W WNM NN NNW TOTAL EU .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SM WSM W NN NNW TOTAL EU MU .00</td><td>N NNE NE ENE E ESE SE SE SS SM WSM W WNM NM NNM TOTAL EU MU SU .00 .</td><td>N NNE NE ENE E ESE SE SE SS SW WSW W WNW NNW TOTAL EU MU SU N 1.00 .</td><td>N NNE NE ENE E ESE SE SSE S SM MSM M NNM NNM TOTAL EU MU SU N SS 1.00 .0</td><td>N NNE NE ENE E ESE SE SS SM WSW W NN NNW TOTAL EU MU SU N SS MS .00<</td></td<></td></td<></td></td<></td></t<> | N NNE NE ENE E ESE SE .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 | N NNE NE ENE E ESE SE SSE .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 | N NNE NE ENE E ESE SE SSE S .00 | N NNE NE ENE E ESE SE SSE S SSM .00 | N NNE NE ENE E ESE SE SSE S SSM SM .00 < | N NNE NE ENE E ESE SE SSE S SSM SM WSM .00 < | N NNE NE ENE E ESE SE SSE S SSH SW WSW W .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SSM SM WSM W WNM .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SSM SM WSM W WNM NM .00</td><td>N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNM NM NNW .00</td><td>N NNE NE ENE E ESE SE SSE S SM WSM W NM NM NM NNW TOTAL .00</td><td>N NNE NE ENE E ESE SE SSE S SM WSM W WNM NN NNW TOTAL EU .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SM WSM W NN NNW TOTAL EU MU .00</td><td>N NNE NE ENE E ESE SE SE SS SM WSM W WNM NM NNM TOTAL EU MU SU .00 .</td><td>N NNE NE ENE E ESE SE SE SS SW WSW W WNW NNW TOTAL EU MU SU N 1.00 .</td><td>N NNE NE ENE E ESE SE SSE S SM MSM M NNM NNM TOTAL EU MU SU N SS 1.00 .0</td><td>N NNE NE ENE E ESE SE SS SM WSW W NN NNW TOTAL EU MU SU N SS MS .00<</td></td<></td></td<></td></td<> | N NNE NE ENE E ESE SE SSE S SSM SM WSM W WNM .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SSM SM WSM W WNM NM .00</td><td>N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNM NM NNW .00</td><td>N NNE NE ENE E ESE SE SSE S SM WSM W NM NM NM NNW TOTAL .00</td><td>N NNE NE ENE E ESE SE SSE S SM WSM W WNM NN NNW TOTAL EU .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SM WSM W NN NNW TOTAL EU MU .00</td><td>N NNE NE ENE E ESE SE SE SS SM WSM W WNM NM NNM TOTAL EU MU SU .00 .</td><td>N NNE NE ENE E ESE SE SE SS SW WSW W WNW NNW TOTAL EU MU SU N 1.00 .</td><td>N NNE NE ENE E ESE SE SSE S SM MSM M NNM NNM TOTAL EU MU SU N SS 1.00 .0</td><td>N NNE NE ENE E ESE SE SS SM WSW W NN NNW TOTAL EU MU SU N SS MS .00<</td></td<></td></td<> | N NNE NE ENE E ESE SE SSE S SSM SM WSM W WNM NM .00 | N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNM NM NNW .00 | N NNE NE ENE E ESE SE SSE S SM WSM W NM NM NM NNW TOTAL .00 | N NNE NE ENE E ESE SE SSE S SM WSM W WNM NN NNW TOTAL EU .00 <td< td=""><td>N NNE NE ENE E ESE SE SSE S SM WSM W NN NNW TOTAL EU MU .00</td><td>N NNE NE ENE E ESE SE SE SS SM WSM W WNM NM NNM TOTAL EU MU SU .00 .</td><td>N NNE NE ENE E ESE SE SE SS SW WSW W WNW NNW TOTAL EU MU SU N 1.00 .</td><td>N NNE NE ENE E ESE SE SSE S SM MSM M NNM NNM TOTAL EU MU SU N SS 1.00 .0</td><td>N NNE NE ENE E ESE SE SS SM WSW W NN NNW TOTAL EU MU SU N SS MS .00<</td></td<> | N NNE NE ENE E ESE SE SSE S SM WSM W NN NNW TOTAL EU MU .00 | N NNE NE ENE E ESE SE SE SS SM WSM W WNM NM NNM TOTAL EU MU SU .00 . | N NNE NE ENE E ESE SE SE SS SW WSW W WNW NNW TOTAL EU MU SU N 1.00 . | N NNE NE ENE E ESE SE SSE S SM MSM M NNM NNM TOTAL EU MU SU N SS 1.00 .0 | N NNE NE ENE E ESE SE SS SM WSW W NN NNW TOTAL EU MU SU N SS MS .00< |

TOT 5.71 4.94 8.29 4.85 6.02 4.89 5.34 8.29 10.14 9.38 5.66 4.76 4.98 3.62 6.48 6.66 100.00 13.54 3.35 4.12 21.11 40.40 13.13 4.35

Wind Direction by Stability

| N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | -STABILITY CLASSES- |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------------|
| | | | | | | | | | | | | | | | | | |
| 1.09 | 1.09 | 1.59 | .77 | .72 | .68 | .59 | .72 | .63 | 1.31 | .45 | 1.00 | .72 | .27 | .59 | 1.31 | 13.54 | Extremely Unstable |
| .09 | . 09 | .32 | . 18 | . 14 | .09 | .09 | . 14 | .59 | .45 | .18 | . 18 | . 18 | .05 | .41 | . 18 | 3.35 | Moderately Unstable |
| .23 | .27 | .32 | .23 | . 18 | . 18 | .18 | .32 | .41 | .45 | .23 | .36 | . 14 | . 09 | .27 | .27 | 4.12 | Slightly Unstable |
| 1.22 | 1.13 | 1.68 | 1.04 | 1.31 | .50 | 1.18 | 1.40 | 2.22 | 2.08 | 1.22 | 1.49 | 1.04 | 1.04 | 1.27 | 1.27 | 21.11 | Neutral |
| 1.99 | 1.99 | 4.12 | 2.36 | 3.22 | 2.17 | 2.26 | 4.39 | 5.34 | 3.22 | 1.68 | 1.31 | 2.26 | 1.04 | 1.40 | 1.63 | 40.40 | Slightly Stable |
| . 95 | .36 | .23 | .23 | .45 | 1.04 | .77 | 1.22 | .82 | 1.31 | 1.04 | .23 | . 59 | .86 | 1.45 | 1.59 | 13.13 | Moderately Stable |
| . 14 | .00 | .05 | . 05 | .00 | .23 | .27 | . 09 | . 14 | . 54 | .86 | . 18 | .05 | .27 | 1.09 | .41 | 4.35 | Extremely Stable |

Wind Direction by Wind Speed

| N | NNE | NE | ENE | Ę | ESE | SE | SSE | S | SS₩ | SW | WSW | W | WNW | NW | NNW | TOTAL | -WIND SPEED CLASSES- |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------|
| | | | | | | | | | | | | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | CALM |
| 2.31 | 1.22 | .68 | .77 | .54 | .68 | .63 | 1.04 | .68 | 1.27 | 1.27 | .72 | . 86 | 1.13 | 2.76 | 2.81 | 19.38 | 1.0 · 3.5 mph |
| 3.13 | 3.22 | 5.66 | 3.58 | 4.03 | 2.40 | 2.31 | 4.53 | 4.30 | 3.67 | 2.26 | 1.81 | 2.76 | 2.08 | 3.22 | 3.44 | 52.40 | 3.6 · 7.5 mph |
| .27 | .50 | 1.95 | . 50 | 1.45 | 1.72 | 1.99 | 2.49 | 4.71 | 3.58 | 1.72 | 2.22 | 1.36 | .41 | .50 | .36 | 25.72 | 7.6 · 12.5 mph |
| .00 | .00 | .00 | .00 | .00 | .09 | .41 | . 18 | .45 | .86 | .41 | .00 | .00 | .00 | .00 | .05 | 2.45 | 12.6 · 18.5 mph |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | 18.6 · 24.5 mph |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | > 24.5 mph |

October·December 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2208 VALUES ARE PERCENT OCCURRENCE

| CL & CC | | ALC: UNK | | | - | | | | - | | <u>_</u> . | , | | | | | | | | | | | | |
|---------|------|----------|------|------|------|------|------|------|------|------|------------|------|------|------|------|------|-------|------|-----|------|-------|-------|------|--|
| CLASS | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | I SI | UN | SS | MS | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 00 | .00 | | | | | | |
| MU | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 05 | | .05 | | | | | |
| C SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | . 00 | J | | | |
| A N | .09 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .23 | | | | .23 | i | | |
| L SS | .00 | .00 | .05 | .00 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .23 | . 18 | .00 | .54 | | | | | . 54 | | |
| M MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | . 14 | .00 | . 18 | .18 | | | | | | |
| MU | .00 | .05 | . 14 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .27 | | .27 | | | | | |
| SU | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | . 05 | i | | | |
| N | .18 | .14 | . 14 | .00 | .23 | .05 | .00 | .09 | . 14 | .09 | .14 | .00 | .23 | .32 | . 18 | .27 | 2.17 | | | | 2.17 | | | |
| s ss | .37 | .46 | .23 | . 14 | . 18 | .27 | .32 | .46 | .46 | .23 | .32 | .14 | . 55 | 1.05 | .55 | .27 | 5.98 | | | | 2.17 | 5.98 | | |
| MS | .23 | .05 | . 18 | .14 | . 18 | . 14 | .23 | .54 | .63 | .36 | .54 | .05 | .32 | .32 | .41 | .45 | 4.76 | | | | | 0.50 | 4.76 | |
| ES | .05 | .00 | .05 | .05 | .00 | .09 | .14 | .14 | .23 | .45 | .59 | .32 | .23 | .54 | .27 | .05 | 3.17 | | | | | | 4.70 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | . 14 | . 14 | .05 | . 05 | .05 | .00 | .00 | . 05 | . 18 | .00 | . 18 | .23 | .05 | .00 | .27 | .14 | 1.49 | 1.49 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | .05 | .09 | .05 | .00 | .32 | | .32 | | | | | |
| SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 14 | . 05 | .05 | .09 | .05 | .23 | . 14 | .00 | .09 | .82 | | | .82 | | | | |
| N | .32 | .45 | .50 | 1.18 | 1.31 | .54 | .50 | .50 | .63 | .45 | .32 | .50 | 1.49 | 1.77 | .77 | .63 | 11.87 | | | | 11.87 | | | |
| SS | .86 | .86 | 1.40 | .68 | 1.72 | 1.00 | .50 | 1.00 | 1.09 | 1.04 | .91 | .59 | 1.22 | 1.49 | 1.09 | .72 | 16.17 | | | | | 16.17 | | |
| MS | .05 | .00 | .05 | .00 | .14 | .50 | .18 | .18 | .82 | 1.04 | 1.45 | .41 | .54 | . 59 | .05 | . 18 | 6.16 | | | | | | 6.16 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .09 | .23 | .27 | .14 | .00 | . 05 | .05 | .00 | .91 | | | | | | | |
| EU | . 00 | .00 | . 14 | .00 | .00 | .27 | . 14 | . 14 | . 05 | .00 | .05 | .59 | .41 | .72 | . 54 | .23 | 3.26 | 3.26 | | | | | | |
| MU | .09 | .00 | .09 | .05 | .00 | .00 | .00 | . 14 | .00 | .00 | .05 | . 14 | .09 | .00 | . 05 | .09 | .77 | | .77 | | | | | |
| SU | .00 | .00 | . 18 | .00 | .00 | .00 | .09 | .05 | .05 | .05 | .09 | . 18 | . 18 | . 09 | . 14 | .00 | 1.09 | | | 1.09 | | | | |
| N | .68 | .41 | .95 | .32 | .59 | .63 | .32 | .86 | .45 | .45 | .72 | 1.04 | 2.76 | 2.36 | .82 | . 59 | 13.95 | | | | 13.95 | | | |
| SS | .09 | .23 | .41 | .00 | .50 | 1.31 | 1.45 | .68 | 1.45 | .86 | .59 | .41 | 1.90 | 1.40 | .63 | .72 | 12.64 | | | | | 12.64 | | |
| MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | | | | | | . 14 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .05 | .00 | . 14 | .00 | . 05 | .27 | .00 | .09 | .00 | . 09 | .00 | .68 | .68 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | . 18 | .09 | .05 | .00 | .00 | .00 | .00 | .36 | | .36 | | | | | |
| SU | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .09 | .23 | .00 | . 18 | .00 | .00 | .00 | .54 | | | .54 | | | | |
| N | .00 | .00 | .00 | .00 | .00 | .23 | . 14 | .36 | .36 | .59 | .45 | .72 | 2.58 | 1.09 | .41 | .41 | 7.34 | | | | 7.34 | | | |
| SS | .00 | .05 | . 14 | .00 | .00 | . 18 | .41 | .27 | .72 | .18 | . 14 | .09 | .23 | .14 | .05 | . 14 | 2.72 | | | | | 2.72 | | |
| мс | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| MS | | | | | | | | | | | | | | | | | | | | | | | | |

 \sim

October-December 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

| SPEEL | | | | | | ••••• | WIN | D DIRE | CTION | CLASSE | s | | | | | | | | • • • • • • • | - STABI | LITY (| CLASSE | s | |
|-------|-------|---------|---------|--------|------|-------|------|--------|-------|--------|------|------|-------|-------|------------|------------|------------|------|---------------|---------|--------|--------|-------|------|
| CLASS | 5 N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | i W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | 5 ES |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | 00. (| .00 | .00 | .05 | .05 | | | | | | |
| 1 MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | | |
| 9 SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | .05 | | | | |
| - N | .00 | .00 | .00 | .00 | .00 | .36 | .00 | .00 | .00 | .09 | .00 | . 18 | .41 | . 09 | .00 | . 14 | 1.27 | | | | 1.27 | | | |
| 2 SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| 4 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 00 | 00 | 00 | .00 | | | | | | |
| GMU | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | .00 | .00 | .00 | .00 | | | .00 .00 | 00. 00. | .00 .00 | .00 | 00 | | | | | |
| TSU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | .00 | .00 | | .00 | .00 | | | | |
| N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | .00 | .00 | | | .00 | .05 | | | |
| 2 SS | .00 | .00 | .00 | .00 | . ÒO | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | .00 | .05 | | | | .05 | .00 | | |
| 4 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | .00 | .00 | | | | | .00 | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | .00 | .00 | | | | | | .00 | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 101 | 3.13 | 2.90 | 4.71 | 2.58 | 5.03 | 5.66 | 4.40 | 5.98 | 7.39 | 6.66 | 7.57 | 5.84 | 13.73 | 12.51 | 6.80 | 5.12 | 100.00 | 5.66 | 1.77 | 2.54 3 | 36.87 | 38.04 | 11.05 | 4.08 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Wind | Direc | ction b | oy Stab | oility | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | S₩ | WSW | W | WNW | NW | NNW | TOTAL | - ST | ABILIT | y class | SES- | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | .14 | .14 | . 18 | .05 | .05 | .32 | . 14 | .32 | .23 | .05 | .59 | .82 | .54 | .72 | | .36 | 5.66 | | - | Unstab | | | | |
| | .09 | .05 | .27 | .05 | .00 | .00 | .00 | .32 | .00 | . 18 | .14 | . 18 | .14 | .14 | . 14 | .09 | 1.77 | | | y Unsta | | | | |
| | .00 | .00 | . 18 | .00 | .05 | .05 | .09 | .18 | .09 | .23 | .41 | .23 | . 59 | .23 | .14 | .09 | 2.54 | | | Unstab1 | e | | | |
| | 1.27 | 1.09 | 1.59 | 1.49 | 2.13 | 1.81 | .95 | 1.81 | 1.59 | 1.68 | | 2.49 | 7.47 | 5.62 | 2.22 | 2.04 | 36.87 | | tral | | | | | |
| | 1.32 | 1.59 | 2.22 | .82 | 2.49 | 2.76 | 2.67 | 2.40 | 3.72 | 2.31 | 1.95 | 1.22 | 3.90 | 4.31 | 2.50 | 1.86 | 38.04 | Sli | ght1y | Stable | | | | |

Wind Direction by Wind Speed

| N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | S₩ | WSW | W | WNW | NW | NNW | TOTAL | -WIND SPEED CLASSES- |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------|
| | | | | | | | | | | | | | | | | | |
| .09 | .09 | .09 | .00 | . 09 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .23 | .23 | .00 | .82 | CALM |
| .82 | .68 | .73 | .32 | .64 | .55 | .68 | 1.23 | 1.45 | 1.13 | 1.63 | .50 | 1.32 | 2.27 | 1.59 | 1.04 | 16.58 | 1.0 · 3.5 mph |
| 1.36 | 1.45 | 1.99 | 1.90 | 3.22 | 2.04 | 1.18 | 2.08 | 2.85 | 2.81 | 3.22 | 1.90 | 3.58 | 4.12 | 2.26 | 1.77 | 37.73 | 3.6 - 7.5 mph |
| .86 | .63 | 1.77 | .36 | 1.09 | 2.22 | 1.99 | 1.86 | 1.99 | 1.49 | 1.49 | 2.36 | 5.34 | 4.57 | 2.17 | 1.63 | 31.84 | 7.6 - 12.5 mph |
| .00 | .05 | . 14 | .00 | .00 | .50 | .54 | .82 | 1.09 | 1.09 | 1.18 | .86 | 3.08 | 1.22 | .54 | .54 | 11.64 | 12.6 - 18.5 mph |
| .00 | .00 | .00 | .00 | .00 | .36 | .00 | .00 | .00 | .14 | .05 | . 18 | .41 | .09 | .00 | . 14 | 1.36 | 18.6 - 24.5 mph |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | > 24.5 mph |

 .27
 .05
 .23
 .14
 .32
 .63
 .41
 .72
 1.45
 1.54
 1.99
 .45
 .86
 .91
 .45
 .63
 11.05
 Moderately Stable

 .05
 .00
 .05
 .00
 .09
 .14
 .23
 .32
 .68
 .86
 .45
 .23
 .59
 .32
 .05
 4.08
 Extremely Stable

January-March 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2170 VALUES ARE PERCENT OCCURRENCE

| SPEED | ••• | | ••••• | | | ••••• | • WIND | DIRE | CTION (| CLASSES | ••••• | • • • • • • | • • • • • • • | | | • • • • • • | | | | - stae | BILITY | CLASSE | s | |
|------------|-------------|-------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-------------|-------------|---------------|-------------|--------------|-------------|-------------|-----|------------|--------|----------|--------|------|-----|
| CLASS | N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SL | JN | SS | MS | ES |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU Mu | .00. .00 | .00 .00 | .00 .00 | 00. 00. | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 | .00. 00. | .00 | .00 | .00 | .00 | .00 | 00 | | | | | |
| C SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00. 00. | .00 | .00. 00. | .00 .00 | .00 .00 | 00. 00. | | .00 | . 00 | h | | | |
| AN | .00 | .00 | .00 | .00 | .00 | .00 | .00 | ,00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | , .00 | | | |
| L SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| M MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | 00 | 00 | 00 | 0.0 | 00 | 00 | 00 | 00 | | | | | | | | - | | | | | | | | |
| eu Mu | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | <u>م</u> ۲ | | | | | |
| nu 1 SU | .05 .00 | .00. .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00. .00 | .00. .00 | .00 | .00. 00 | .00 | .00. | .00 | .00 | .00 | .00 | .05 | | .05 | 00 | ` | | | |
| - N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 .00 | .00 .05 | .00. .00 | .00. .00 | .00 .05 | .00 .00 | .00 .00 | .00. .00 | .00 .51 | | | .00 | , .51 | | | |
| 3 SS | .05 | .00 | .05 | .05 | .09 | .00 | .05 | .00 | .00 | .00 | .05 | .00 | .00 | . 14 | .00 | .00 | .51 | | | | .51 | .55 | | |
| MS | .05 | .00 | .05 | .05 | .05 | .00 | .09 | .14 | .09 | .09 | .09 | .00 | .05 | .05 | .00 | .18 | .97 | | | | | | .97 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | . 14 | .05 | .00 | .00 | .00 | .05 | .00 | .32 | | | | | | | .32 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | | | | | | |
| MU | .05 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .05 | .00 | .23 | | .23 | | | | | |
| 4 SU | .05 | .00 | .09 | .05 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .09 | .00 | .00 | .00 | .37 | | | .37 | | | | |
| • N | .23 | .32 | .23 | .37 | . 14 | .32 | .28 | .51 | | .41 | .37 | .46 | .60 | .00 | . 18 | . 18 | 5.67 | | | | 5.67 | | | |
| 7 SS | .09 | .14 | . 18 | .46 | .05 | . 14 | .23 | .23 | .05 | . 18 | . 18 | .23 | .09 | . 14 | .09 | .05 | 2.53 | | | | | 2.53 | | |
| MS ES | .00 .00 | .18 .00 | .09 .00 | .00 .00 | .05 .05 | .09 .05 | .14 .00 | .00 .09 | .09 .09 | .05 .00 | .09 .00 | .14 .00 | .09 .00 | .18 .00 | . 18 . 00 | .14 .00 | 1.52 .28 | | | | | | 1.52 | 20 |
| 5 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .20 | | | | | | | .28 |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 09 | .00 | .00 | . 09 | .09 | | | | | | |
| MU | .00 | .05 | . 14 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | . 28 | . 14 | . 78 | | .78 | | | | | |
| 8 SU | . 14 | .05 | .00 | .05 | .05 | .05 | .14 | .05 | .00 | .05 | .09 | . 18 | .05 | . 09 | . 18 | .05 | 1.20 | | | 1.20 | | | | |
| • N | .46 | . 55 | 1.01 | 1.80 | 1.06 | .69 | .74 | .46 | 1.43 | .41 | .46 | .23 | . 78 | .51 | .60 | .46 | 11.66 | | | | 11.66 | | | |
| 1 SS | .23 | .28 | .28 | .46 | .60 | .23 | .41 | .32 | .23 | .41 | .32 | . 14 | . 18 | .23 | . 18 | .18 | 4.70 | | | | | 4.70 | | |
| 2 MS | . 14 | . 18 | . 14 | .00 | .09 | .00 | .23 | . 18 | .23 | .14 | .37 | .09 | .41 | . 18 | .28 | .09 | 2.76 | | | | | | 2.76 | |
| ES | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .05 | .05 | .00 | .00 | .00 | . 14 | . 18 | .00 | .46 | | | | | | | .46 |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .00 | . 09 | .23 | .23 | | | | | | |
| 1 MU | .05 | .00 | .00 | .00 | .00 | .05 | . 14 | .00 | .09 | .00 | .09 | . 14 | .05 | . 18 | .05 | .05 | .88 | | .88 | | | | | |
| 3 SU | . 18 | . 18 | .00 | .00 | .00 | .05 | .09 | .00 | .09 | .09 | . 14 | .32 | .05 | .05 | .05 | .05 | 1.34 | | | 1.34 | | | | |
| - N | .74 | 1.34 | .74 | . 92 | 1.66 | . 97 | .32 | | 1.11 | 1.20 | .55 | | 1.15 | 1.57 | . 92 | 1.20 | 15.62 | | | | 15.62 | | | |
| 1 SS | .46 | . 14 | .05 | .00 | .69 | .60 | .51 | | 1.75 | 2.03 | .88 | | 1.80 | | 1.01 | | 12.07 | | | | | 12.07 | | |
| 8 MS | .23 | .14 | .00 | .00 | .00 | .00 | .23 | .00 | .00 | .23 | .69 | .74 | .69 | .60 | .83 | .46 | 4.84 | | | | | | 4.84 | |
| ES | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .05 | .05 | . 14 | .00 | .09 | .09 | .23 | .00 | .69 | | | | | | | .69 |

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January-March 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

| SPEED | | | • • • • • • • | | | • • - • | - WIND | DIREC | TION C | LASSES | • • • • • • | | | • • • • • • | | | | •••• | ••••• | STAB | | LASSES | • • • • • • | |
|-------|-----|-----|---------------|-----|-----|---------|--------|-------|--------|--------|-------------|---------|------|-------------|------|------|-------|------|-------|------|-------|--------|-------------|-----|
| CLASS | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | ES |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .23 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .23 | .00 | .00 | .60 | .60 | | | | | | |
| 1 MU | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | . 14 | .28 | .05 | .05 | .65 | | .65 | | | | | |
| 9 SV | .09 | .23 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | . 14 | .00 | . 18 | .23 | . 14 | .14 | 1.29 | | | 1.29 | | | | |
| - N | .23 | .83 | . 18 | .00 | .60 | .55 | .05 | 1.11 | 1.06 | .88 | .46 | .32 | 1.11 | 1.80 | 1.15 | 1.20 | 11.52 | | | | 11.52 | | | |
| 2 SS | .18 | .00 | .00 | .00 | .05 | .09 | .23 | .92 | 1.52 | . 92 | .37 | .65 | .55 | .78 | .46 | .46 | 7.19 | | | | | 7.19 | | |
| 4 MS | .28 | .00 | .00 | .00 | .00 | .05 | . 14 | .00 | .00 | .41 | .09 | .23 | .00 | .09 | .05 | .23 | 1.57 | | | | | | 1.57 | |
| ES | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .00 | .14 | .00 | .00 | .00 | .00 | .00 | .05 | .28 | | | | | | | .28 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .09 | .00 | .00 | .14 | .14 | | | | | | |
| GMU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 09 | .00 | .00 | .00 | .05 | . 09 | .00 | .00 | .23 | | .23 | | | | | |
| t su | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 28 | . 05 | .00 | . 14 | .00 | .00 | . 09 | .00 | .55 | | | .55 | | | | |
| N | .00 | .09 | .05 | .00 | .00 | .00 | .00 | .65 | 1.24 | .37 | . 14 | .28 | .60 | .32 | .28 | .23 | 4.24 | | | | 4.24 | | | |
| 2 SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .28 | .37 | . 18 | . 14 | .32 | .09 | .00 | .00 | .00 | 1.38 | | | | | 1.38 | | |
| 4 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

TOT 4.06 5.02 3.41 4.29 5.35 4.10 4.24 5.76 11.11 8.71 5.99 5.90 9.12 9.31 7.56 6.08 100.00 1.11 2.81 4.75 49.22 28.43 11.66 2.03

Wind Direction by Stability

| N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SS₩ | SW | WSW | W | WNW | NW | NNW | TOTAL | •STABILITY CLASSES• |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------------|
| | | | | | | | | | | | | | | | | | |
| .05 | .23 | .05 | .00 | .00 | .00 | .05 | .00 | .05 | .00 | .00 | .00 | . 14 | .46 | .00 | .09 | 1.11 | Extremely Unstable |
| . 14 | .09 | . 18 | .09 | .00 | .05 | . 14 | .00 | . 18 | .05 | . 14 | . 14 | .28 | .69 | .41 | .23 | 2.81 | Moderately Unstable |
| .46 | .46 | . 14 | .09 | .05 | .09 | .23 | .05 | .37 | .32 | .41 | .65 | .37 | .37 | .46 | .23 | 4.75 | Slightly Unstable |
| 1.71 | 3.18 | 2.21 | 3.09 | 3.50 | 2.63 | 1.52 | 3.18 | 5.90 | 3.32 | 1.98 | 2.12 | 4.29 | 4.19 | 3.13 | 3.27 | 49.22 | Neutral |
| 1.01 | .55 | .55 | . 97 | 1.47 | 1.06 | 1.43 | 2.12 | 3.96 | 3.73 | 1.94 | 1.80 | 2.72 | 2.26 | 1.75 | 1.11 | 28.43 | Slightly Stable |
| .69 | .51 | .28 | .05 | . 18 | . 14 | .83 | .32 | .41 | . 92 | 1.34 | 1.20 | 1.24 | 1.11 | 1.34 | 1.11 | 11.66 | Moderately Stable |
| .00 | .00 | .00 | .00 | . 14 | . 14 | .05 | .09 | .23 | .37 | . 18 | .00 | .09 | .23 | .46 | .05 | 2.03 | Extremely Stable |

Wind Direction by Wind Speed

| N | NNE | NE | ENE | Е | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | -WIND SPEED CLASSES- |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------|
| | | | | | | | | | | | | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | CALM |
| . 18 | .05 | . 09 | . 09 | . 18 | .09 | .32 | . 18 | .18 | .28 | . 18 | .05 | .09 | . 18 | .05 | . 18 | 2.40 | 1.0 · 3.5 mph |
| .46 | .65 | .65 | .88 | .28 | .60 | .65 | .83 | 1.29 | .69 | .69 | .83 | .92 | .37 | .51 | .37 | 10.65 | 3.6 · 7.5 mph |
| .97 | 1.11 | 1.57 | 2.40 | 1.84 | .97 | 1.52 | 1.01 | 1.94 | 1.06 | 1.24 | .65 | 1.43 | 1.34 | 1.71 | . 92 | 21.66 | 7.6 · 12.5 mph |
| 1.66 | 1.80 | . 78 | . 92 | 2.40 | 1.66 | 1.34 | .78 | 3.13 | 3.59 | 2.49 | 2.44 | 3.82 | 3.50 | 3.09 | 2.26 | 35.67 | 12.6 · 18.5 mph |
| .78 | 1.34 | .28 | .00 | .65 | . 78 | .41 | 2.03 | 2.58 | 2.49 | 1.11 | 1.20 | 2.07 | 3.41 | 1.84 | 2.12 | 23.09 | 18.6 - 24.5 mph |
| .00 | .09 | .05 | .00 | .00 | .00 | .00 | .92 | 1.98 | .60 | .28 | .74 | .78 | .51 | .37 | .23 | 6.54 | > 24.5 mph |

April-June 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2122 VALUES ARE PERCENT OCCURRENCE

| SPEED | • • • | | ••••• | <i>.</i> . | | | - WIND | DIRE | CTION | CLASSES | s | | | | | | | | • • • • • | · STAB | ILITY (| CLASSE | s | |
|-------|-------|------|-------|------------|------|------|--------|------|-------|---------|------|------|------|------|------|------|-------|------|-----------|--------|---------|--------|------|-----|
| CLASS | N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | ES |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| C SU | .00 | .00 | . 00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| A N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | .00 | | | |
| L SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| M MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| 1 SU | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | | .05 | | | | |
| • N | .05 | .05 | .14 | .05 | .09 | . 14 | .00 | .05 | .05 | . 19 | .05 | .05 | .19 | .05 | . 14 | .09 | 1.37 | | | | 1.37 | | | |
| 3 SS | .05 | .00 | .00 | .05 | .00 | .00 | .05 | .05 | .00 | .05 | .00 | .00 | .00 | .05 | .00 | .00 | .28 | | | | | .28 | | |
| MS | .00 | .00 | .09 | .00 | .05 | .05 | .00 | .00 | .00 | .05 | .00 | .00 | .05 | .09 | .09 | .00 | .47 | | | | | | .47 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | .14 | .00 | .00 | .24 | | | | | | | .24 |
| EU | .00 | . 14 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 19 | . 19 | | | | | | |
| MU | .05 | .05 | . 19 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .28 | | .28 | | | | | |
| 4 SU | .05 | . 19 | .24 | .09 | .05 | .00 | .00 | .05 | .00 | .05 | .00 | .00 | . 14 | .09 | .00 | .09 | 1.04 | | | 1.04 | | | | |
| - N | .61 | . 19 | . 52 | .71 | . 52 | .33 | .61 | .38 | .71 | .52 | .38 | .24 | .71 | .28 | .71 | .52 | 7.92 | | | | 7.92 | | | |
| 7 SS | . 19 | . 14 | . 14 | .90 | .24 | .09 | .05 | .33 | .28 | .09 | .24 | .05 | .05 | .05 | .05 | .05 | 2.92 | | | | | 2.92 | | |
| MS | .00 | .00 | .05 | .09 | .24 | .05 | .05 | . 09 | . 14 | .24 | . 14 | .19 | .05 | . 14 | .38 | .24 | 2.07 | | | | | | 2.07 | |
| ES | .00 | . 05 | .00 | .05 | .05 | .00 | .00 | .00 | .00 | .00 | . 05 | .00 | .00 | . 09 | .00 | .05 | .33 | | | | | | | .33 |
| EU | .09 | .09 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .33 | .33 | | | | | | |
| MU | .09 | .14 | .28 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .09 | .00 | .05 | .00 | . 14 | .94 | | . 94 | | | | | |
| 8 SU | .05 | .14 | . 19 | .09 | .09 | .05 | .05 | .05 | .00 | .00 | .09 | .00 | .00 | .05 | .05 | . 14 | 1.04 | | | 1.04 | | | | |
| • N | .75 | .75 | .80 | 2.36 | 1.46 | .57 | .24 | .61 | .99 | 1.13 | 1.23 | .85 | .52 | .38 | .24 | .47 | 13.34 | | | | 13.34 | | | |
| 1 SS | .42 | .47 | .42 | .57 | .61 | .38 | .42 | .57 | .71 | .42 | .28 | .24 | . 90 | .19 | .33 | . 14 | 7.07 | | | | | 7.07 | | |
| 2 MS | . 14 | .38 | .14 | .05 | .00 | .05 | .33 | .47 | .38 | .05 | .09 | .28 | .33 | .14 | .47 | . 19 | 3.49 | | | | | | 3.49 | |
| ES | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .05 | . 14 | .00 | .00 | .09 | .09 | . 52 | | | | | | | .52 |
| EU | .00 | .28 | .05 | . 14 | .00 | .00 | .00 | .00 | .00 | .05 | .14 | . 09 | .00 | .00 | .05 | .14 | .94 | . 94 | | | | | | |
| 1 MU | .00 | .00 | .05 | .00 | .00 | .00 | .05 | .00 | .09 | .28 | .05 | .00 | .00 | .09 | . 09 | .14 | .85 | | .85 | | | | | |
| 3 SU | .00 | . 09 | .05 | .00 | .00 | .00 | .00 | .24 | . 14 | .05 | . 19 | .33 | . 19 | .33 | .24 | .09 | 1.93 | | | 1.93 | | | | |
| - N | .71 | . 90 | . 94 | .33 | . 75 | . 52 | .33 | 1.18 | . 94 | 1.27 | 1.08 | .66 | .57 | .80 | .61 | .66 | 12.25 | | | | 12.25 | | | |
| 1 SS | .28 | .28 | .80 | .09 | .42 | .75 | . 52 | 1.23 | 1.70 | 2.40 | | .85 | .47 | .71 | . 94 | .24 | 12.87 | | | | | 12.87 | | |
| 8 MS | .28 | . 19 | .05 | .05 | .00 | .24 | .33 | .24 | .09 | .28 | .24 | .47 | . 14 | .28 | . 09 | . 19 | 3.16 | | | | | | 3.16 | |
| ES | .00 | .00 | .09 | .00 | .00 | .05 | .09 | .00 | .05 | .00 | .00 | .05 | .09 | .00 | .00 | .05 | .47 | | | | | | | .47 |

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April-June 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

| LASS | N | NNE | NE | ENE | Е | ESE | SE | | S | CLASSES | | LICU | 5.1 | 1.66.1 | 60.1 | FIFM 4 | TOTAL | •••• | | | ILITY (| | | |
|----------|--|--|--|--|---|--|---|--|---|--|---|--|--|---|--|---|---|--|---|--|---|-------|-------|---|
| | N | NNE | NE | ENE | E | LOL | 3E | 33E | 2 | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | |
| EU | .00 | .05 | .33 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .24 | .00 | .09 | .71 | .71 | | | | | | |
| MU | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .28 | . 09 | .28 | .09 | .09 | . 99 | | . 99 | | | | | |
| SU | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .09 | .33 | .14 | .14 | .05 | . 19 | . 19 | .05 | 1.27 | | | 1.27 | | | | |
| N | .47 | . 94 | .33 | .00 | .05 | .61 | .09 | .52 | .80 | 1.27 | .90 | .24 | .38 | .71 | .75 | .52 | 8.58 | | | | 8.58 | | | |
| SS | .05 | . 14 | . 14 | .00 | .05 | .05 | .05 | . 09 | 1.13 | 1.56 | 1.60 | .61 | .09 | .33 | .24 | .05 | 6.17 | | | | | 6.17 | | |
| MS | .05 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | . 09 | .38 | .28 | .05 | .00 | .00 | .00 | .00 | . 90 | | | | | | . 90 | |
| ES | .00 | .00 | . 00 | .00 | .00 | .00 | .05 | . 00 | .00 | .00 | . 05 | .00 | .00 | .00 | . 00 | .00 | .09 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| 10 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .00 | . 19 | | .19 | | | | | |
| 50 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .09 | .00 | .14 | .00 | .09 | .24 | .00 | .05 | .66 | | | .66 | | | | |
| N | .61 | .24 | .00 | .00 | .00 | .28 | .00 | .00 | .19 | .19 | .24 | .14 | .05 | .61 | . 14 | .24 | 2.92 | | | | 2.92 | | | |
| SS 45 | .00 | .05 | .00 | .00 | .00 | .00 | .09 | .05 | .19 | .24 | .09 | .05 | .24 | .14 | .00 | .05 | 1.18 | | | | | 1.18 | | |
| 1S Es | .00 .00 | .00. .00. | .00 .00 | .00. .00 | .00. .00 | .00 .00 | .00 .00 | .00. 00. | .00. .00 | .00 .00 | .00. .00 | .00. .00 | .00. .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | | | | | | .00 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| т | 5.00 | 6.03 | 6.27 | 5.70 | 4.71 | 4.19 | 3.39 | 6.36 | 9.00 | 11.07 | 9.00 | 6.08 | 5.47 | 6.79 | 5.98 | 4.95 | 100.00 | 2.17 | 3.25 | 5.98 | 46.37 | 30.49 | 10.08 | 1 |
| nd | Direc | tion b | y Stab | oility | | | | | | | | | | | | | | | | | | | | |
| | N | NNE | NE | ENE | Ε | ESE | SE | SSE | S | SSW | S₩ | WSW | W | WNW | NW | NNW | TOTAL | - STA | BUIT | Y CLAS | SES- | | | |
| | . 09 | 57 | | | | | | | | | | | | | | | | 517 | DILI | | | | | |
| | | .57 | .47 | .14 | .00 | .00 | .00 | .00 | .00 | .05 | .14 | .09 | .00 | .24 | .05 | .33 | 2.17 | | emely | | | | | |
| | . 14 | .24 | .47 .57 | .14 .09 | .00 .00 | .00 .00 | .00 .05 | .00 .05 | .00 .19 | .05 .28 | .14 .09 | .09 .38 | .00 .14 | | | .33 .38 | 2.17 3.25 | Extr | | Unsta | ble | | | |
| | . 09 | | | | | | | | | | | | | .24 | .05 | | | Extr Mode | emely | Unsta y Unst | ıble able | | | |
| | .09 3.20 | .24 .42 3.06 | .57 .52 2.73 | .09 .19 3.44 | .00 .19 2.87 | .00 .05 2.45 | .05 .05 1.27 | .05 .42 2.73 | .19 .33 3.68 | .28 .42 4.57 | .09 | .38 | . 14 | .24 .47 | .05 .19 | .38 | 3.25 | Extr Mode | emely rately htly (| Unsta y Unst | ıble able | | | |
| | .09 3.20 .99 | .24 .42 3.06 1.08 | .57 .52 2.73 1.51 | .09 .19 3.44 1.60 | .00 .19 2.87 1.32 | .00 .05 2.45 1.27 | .05 .05 1.27 1.18 | .05 .42 2.73 2.31 | .19 .33 3.68 4.01 | .28 .42 4.57 4.76 | .09 .57 3.86 3.39 | .38 .47 2.17 1.79 | . 14 . 47 | .24 .47 .90 | .05 .19 .47 | .38 .42 | 3.25 5.98 | Extr Mode Slig Neut | emely rately htly (| Unsta y Unst Jnstab | ble able le | | | |
| | .09 3.20 .99 .47 | .24 .42 3.06 1.08 .57 | .57 .52 2.73 1.51 .38 | .09 .19 3.44 1.60 .19 | .00 .19 2.87 1.32 .28 | .00 .05 2.45 1.27 .38 | .05 .05 1.27 1.18 .71 | .05 .42 2.73 2.31 .80 | .19 .33 3.68 4.01 .71 | .28 .42 4.57 4.76 .99 | .09 .57 3.86 3.39 .75 | .38 .47 2.17 1.79 .99 | .14 .47 2.40 1.74 .57 | .24 .47 .90 2.83 1.46 .66 | .05 .19 .47 2.59 1.56 1.04 | .38 .42 2.50 .52 .61 | 3.25 5.98 46.37 30.49 10.08 | Extr Mode Slig Neut Slig Mode | emely crately htly (ral htly S rately | Unsta y Unst Jnstab Stable y Stab | ble able ble de | | | |
| | .09 3.20 .99 | .24 .42 3.06 1.08 | .57 .52 2.73 1.51 | .09 .19 3.44 1.60 | .00 .19 2.87 1.32 | .00 .05 2.45 1.27 | .05 .05 1.27 1.18 | .05 .42 2.73 2.31 | .19 .33 3.68 4.01 | .28 .42 4.57 4.76 | .09 .57 3.86 3.39 | .38 .47 2.17 1.79 | .14 .47 2.40 1.74 | .24 .47 .90 2.83 1.46 | .05 .19 .47 2.59 1.56 | .38 .42 2.50 .52 | 3.25 5.98 46.37 30.49 | Extr Mode Slig Neut Slig Mode | remely rately htly (ral htly S | Unsta y Unst Jnstab Stable y Stab | ble able ble de | | | |
| nd | .09 3.20 .99 .47 .00 | .24 .42 3.06 1.08 .57 .09 | .57 .52 2.73 1.51 .38 .09 | .09 .19 3.44 1.60 .19 | .00 .19 2.87 1.32 .28 .05 | .00 .05 2.45 1.27 .38 | .05 .05 1.27 1.18 .71 | .05 .42 2.73 2.31 .80 | .19 .33 3.68 4.01 .71 | .28 .42 4.57 4.76 .99 | .09 .57 3.86 3.39 .75 | .38 .47 2.17 1.79 .99 | .14 .47 2.40 1.74 .57 | .24 .47 .90 2.83 1.46 .66 | .05 .19 .47 2.59 1.56 1.04 | .38 .42 2.50 .52 .61 | 3.25 5.98 46.37 30.49 10.08 | Extr Mode Slig Neut Slig Mode | emely crately htly (ral htly S rately | Unsta y Unst Jnstab Stable y Stab | ble able ble de | | | |
| nd | .09 3.20 .99 .47 .00 | .24 .42 3.06 1.08 .57 .09 | .57 .52 2.73 1.51 .38 .09 | .09 .19 3.44 1.60 .19 .05 | .00 .19 2.87 1.32 .28 .05 | .00 .05 2.45 1.27 .38 | .05 .05 1.27 1.18 .71 | .05 .42 2.73 2.31 .80 | .19 .33 3.68 4.01 .71 | .28 .42 4.57 4.76 .99 | .09 .57 3.86 3.39 .75 .19 | .38 .47 2.17 1.79 .99 | .14 .47 2.40 1.74 .57 | .24 .47 .90 2.83 1.46 .66 | .05 .19 .47 2.59 1.56 1.04 | .38 .42 2.50 .52 .61 .19 | 3.25 5.98 46.37 30.49 10.08 | Extr Mode Slig Neut Slig Mode Extr | emely crately htly (ral htly S rately | Unsta y Unst Jnstab Stable y Stab Stabl | able sable ble dle e | | | |
| nd | .09 3.20 .99 .47 .00 Direc | .24 .42 3.06 1.08 .57 .09 tion b | .57 .52 2.73 1.51 .38 .09 y Wind | .09 .19 3.44 1.60 .19 .05 | .00 .19 2.87 1.32 .28 .05 | .00 .05 2.45 1.27 .38 .05 | .05 .05 1.27 1.18 .71 .14 | .05 .42 2.73 2.31 .80 .05 | .19 .33 3.68 4.01 .71 .09 | .28 .42 4.57 4.76 .99 .00 | .09 .57 3.86 3.39 .75 .19 | .38 .47 2.17 1.79 .99 .19 | .14 .47 2.40 1.74 .57 .14 | .24 .47 .90 2.83 1.46 .66 .24 | .05 .19 .47 2.59 1.56 1.04 .09 | .38 .42 2.50 .52 .61 .19 | 3.25 5.98 46.37 30.49 10.08 1.65 | Extr Mode Slig Neut Slig Mode Extr | remely rately ratly (ral htly (rately emely | Unsta y Unst Jnstab Stable y Stab Stabl | able sable ble dle e | | | |
| nd | .09 3.20 .99 .47 .00 Direc | .24 .42 3.06 1.08 .57 .09 tion b NNE .00 .05 | .57 .52 2.73 1.51 .38 .09 y Wind NE .00 .24 | .09 .19 3.44 1.60 .19 .05 Speed ENE .00 .09 | .00 .19 2.87 1.32 .28 .05 E .00 | .00 .05 2.45 1.27 .38 .05 ESE .00 .19 | .05 .05 1.27 1.18 .71 .14 SE .00 .05 | .05 .42 2.73 2.31 .80 .05 .05 .00 .09 | .19 .33 3.68 4.01 .71 .09 S .00 .05 | .28 .42 4.57 4.76 .99 .00 | .09 .57 3.86 3.39 .75 .19 | .38 .47 2.17 1.79 .99 .19 | .14 .47 2.40 1.74 .57 .14 | .24 .47 .90 2.83 1.46 .66 .24 WNW .00 .33 | .05 .19 .47 2.59 1.56 1.04 .09 NW .00 .24 | .38 .42 2.50 .52 .61 .19 | 3.25 5.98 46.37 30.49 10.08 1.65 | Extr Mode Slig Neut Slig Mode Extr | remely rately htly (ral htly S rately emely D SPEE | Unsta y Unst Jnstab Stable y Stab Stab Stab CLA | able sable ble e s SSES- | | | |
| nd | .09 3.20 .99 .47 .00 Direc N | .24 .42 3.06 1.08 .57 .09 tion b NNE .00 .05 .75 | .57 .52 2.73 1.51 .38 .09 y Wind NE .00 .24 1.18 | .09 .19 3.44 1.60 .19 .05 Speed ENE .00 .09 1.84 | .00 .19 2.87 1.32 .28 .05 E .00 .19 1.08 | .00 .05 2.45 1.27 .38 .05 ESE .00 .19 .47 | .05 .05 1.27 1.18 .71 .14 SE .00 .05 .71 | .05 .42 2.73 2.31 .80 .05 SSE .00 .09 .85 | .19 .33 3.68 4.01 .71 .09 S .00 .05 1.13 | .28 .42 4.57 4.76 .99 .00 SSW .00 .28 .90 | .09 .57 3.86 3.39 .75 .19 SW .00 .00 .00 .80 | .38 .47 2.17 1.79 .99 .19 WSW .00 .05 .47 | .14 .47 2.40 1.74 .57 .14 W | .24 .47 .90 2.83 1.46 .66 .24 WNW .00 .33 .66 | .05 .19 .47 2.59 1.56 1.04 .09 NW .00 .24 1.13 | .38 .42 2.50 .52 .61 .19 NNW .00 .09 .94 | 3.25 5.98 46.37 30.49 10.08 1.65 TOTAL .00 2.40 14.75 | Extr Mode Slig Neut Slig Mode Extr -WIN C 1 | remely rrately htly (ral htly (rately emely D SPEE A L N | Unsta y Unst Jnstab Stable y Stab Stabl Stabl | uble sable ble de s SSES- | | | |
| | .09 3.20 .99 .47 .00 Direc N .00 .09 .90 1.56 | .24 .42 3.06 1.08 .57 .09 tion b NNE .00 .05 .75 2.03 | .57 .52 2.73 1.51 .38 .09 y Wind NE .00 .24 1.18 1.89 | .09 .19 3.44 1.60 .19 .05 Speed ENE .00 .09 1.84 3.16 | .00 .19 2.87 1.32 .28 .05 E .00 .19 1.08 2.17 | .00 .05 2.45 1.27 .38 .05 ESE .00 .19 .47 1.04 | .05 .05 1.27 1.18 .71 .14 SE .00 .05 .71 1.04 | .05 .42 2.73 2.31 .80 .05 SSE .00 .09 .85 1.74 | .19 .33 3.68 4.01 .71 .09 S .09 S .00 .05 1.13 2.12 | .28 .42 4.57 4.76 .99 .00 SSW .00 .28 .90 1.60 | .09 .57 3.86 3.39 .75 .19 SW .00 .09 .80 1.79 | .38 .47 2.17 1.79 .99 .19 WSW .00 .05 .47 1.60 | .14 .47 2.40 1.74 .57 .14 W .00 .28 .94 1.74 | .24 .47 .90 2.83 1.46 .24 WNW .00 .33 .66 .80 | .05 .19 .47 2.59 1.56 1.04 .09 NW .00 .24 1.13 1.18 | .38 .42 2.50 .52 .61 .19 NNW .00 .09 .94 1.27 | 3.25 5.98 46.37 30.49 10.08 1.65 TOTAL .00 2.40 14.75 26.72 | Extr Mode Slig Neut Slig Mode Extr -WIN C 1 3 | remely rrately htly (ral htly (rately emely D SPEE A L M | Unsta y Unst Jnstable y Stable Stabl Stabl GD CLA 4 3.5 m 7.5 m | able able ble de SSSES- ph ph | | | |
| | .09 3.20 .99 .47 .00 Direc N .00 .90 1.56 1.27 | .24 .42 3.06 1.08 .57 .09 tion b NNE .00 .05 .75 2.03 | .57 .52 2.73 1.51 .38 .09 y Wind NE .00 .24 1.18 1.89 | .09 .19 3.44 1.60 .19 .05 Speed ENE .00 .09 1.84 3.16 | .00 .19 2.87 1.32 .28 .05 E .00 .19 1.08 2.17 | .00 .05 2.45 1.27 .38 .05 ESE .00 .19 .47 1.04 | .05 .05 1.27 1.18 .71 .14 SE .00 .05 .71 1.04 | .05 .42 2.73 2.31 .80 .05 SSE .00 .09 .85 1.74 2.87 | .19 .33 3.68 4.01 .71 .09 S .00 .05 1.13 2.12 3.02 | .28 .42 4.57 4.76 .99 .00 SSW .00 .28 .90 | .09 .57 3.86 3.39 .75 .19 SW .00 .09 .80 1.79 2.87 | .38 .47 2.17 1.79 .99 .19 .19 .09 .19 .09 .05 .47 1.60 2.45 | .14 .47 2.40 1.74 .57 .14 W .00 .28 .94 1.74 | .24 .47 .90 2.83 1.46 .24 WNW .00 .33 .66 .80 | .05 .19 .47 2.59 1.56 1.04 .09 NW .00 .24 1.13 1.18 | .38 .42 2.50 .52 .61 .19 NNW .00 .09 .94 1.27 | 3.25 5.98 46.37 30.49 10.08 1.65 TOTAL .00 2.40 14.75 26.72 | Extr Mode Slig Neut Slig Mode Extr -WIN C 1 3 7 | remely rrately htly (rrately rrately emely D SPEE A L M .0 - .6 - | Unsta y Unstab Stable y Stab Stabl CD CLA 1 3.5 m 7.5 m 12.5 m | able able ile e SSSES- ph ph | | | |

.61 .28 .05 .00 .00 .28 .09 .14 .47 .42 .47 .19 .42 1.04 .14 .33 4.95 > 24.5 mph

 \smile

July-September 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2180 VALUES ARE PERCENT OCCURRENCE

| CLASS | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|-------|------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| Ν | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | .00 | | | |
| SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| I MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | . 00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| รบ | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | | - | .05 | | | | |
| N | .05 | . 14 | .00 | .05 | .14 | .00 | .00 | .00 | .09 | .05 | .05 | . 14 | .05 | .00 | .09 | .05 | .87 | | | | .87 | | | |
| s ss | .00 | .00 | .00 | . 14 | .00 | .05 | .05 | .00 | .05 | .00 | .05 | .05 | .00 | .05 | . 09 | .05 | .55 | | | | | .55 | | |
| MS | .05 | . 14 | .09 | .09 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .46 | | | | | .00 | .46 | |
| ES | .00 | .00 | .00 | .05 | .00 | .00 | .05 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | . 14 | | | | | | .40 | |
| | | | | | | | | | | | | | | | .00 | .00 | . 14 | | | | | | | |
| EU | . 14 | . 18 | . 18 | .05 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .00 | .69 | .69 | | | | | | |
| MU | .00 | .14 | .09 | . 18 | .14 | .09 | .05 | .14 | .05 | .00 | .00 | .09 | .05 | .00 | .05 | .05 | 1.10 | | 1.10 | | | | | |
| SU | .05 | . 18 | .23 | .41 | .28 | .00 | .09 | .09 | .23 | . 14 | .00 | . 14 | . 09 | . 09 | .09 | .05 | 2.16 | | | 2.16 | | | | |
| N | .46 | .46 | .23 | 1.10 | .78 | .23 | .28 | .37 | .41 | .41 | .23 | .32 | .14 | . 14 | .32 | .09 | 5.96 | | | 2.10 | 5.96 | | | |
| SS | .05 | .28 | .50 | .92 | .41 | .14 | .37 | . 14 | . 14 | .09 | .23 | .05 | .37 | .09 | . 18 | .09 | 4.04 | | | | 5.50 | 4.04 | | |
| MS | . 14 | . 14 | .23 | .28 | .14 | .05 | .09 | . 18 | . 14 | .09 | .09 | . 14 | .09 | .05 | . 09 | .00 | 1.93 | | | | | 4.04 | 1 02 | |
| ES | .05 | .09 | .05 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .05 | .05 | .00 | .46 | | | | | | 1.93 | |
| 20 | | .05 | .00 | | .00 | | .00 | .05 | .00 | .00 | .00 | .00 | .05 | .05 | .05 | .09 | .40 | | | | | | | |
| EU | . 18 | .23 | .46 | .05 | . 14 | . 18 | .00 | .00 | .00 | .18 | .00 | .09 | .05 | .05 | .00 | .23 | 1.83 | 1.83 | | | | | | |
| MU | .09 | .32 | . 55 | .14 | .09 | . 14 | .32 | .28 | . 18 | .28 | .05 | .09 | .28 | .05 | .09 | .32 | 3.26 | | 3.26 | | | | | |
| SU | . 18 | .28 | . 09 | .32 | .14 | .32 | .23 | .28 | .23 | .14 | . 18 | .37 | . 14 | .09 | .41 | .37 | 3.76 | | | 3.76 | | | | |
| Ν | .55 | 1.19 | 1.47 | 1.79 | 1.06 | .28 | .92 | .78 | 1.42 | 1.15 | .50 | . 73 | . 78 | .64 | .87 | .64 | 14.77 | | | | 14.77 | | | |
| SS | .23 | 1.10 | 1.51 | .64 | 1.19 | .73 | .69 | .69 | .78 | 1.10 | .78 | .64 | . 55 | . 55 | .46 | .28 | 11.93 | | | | | 11.93 | | |
| MS | . 14 | .60 | .23 | .05 | . 09 | .05 | .32 | .64 | .09 | .37 | .23 | .32 | .37 | .09 | .28 | . 14 | 3.99 | | | | | | 3.99 | |
| ES | .23 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .09 | .05 | . 14 | . 18 | .00 | . 18 | .00 | . 96 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | . 18 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .14 | .14 | .00 | .05 | .00 | .00 | .05 | .64 | .64 | | | | | | |
| MU | .09 | . 18 | .09 | .00 | .05 | . 14 | .09 | .05 | .09 | .14 | .14 | . 18 | .05 | .00 | .00 | .00 | 1.28 | | 1.28 | | | | | |
| SU | .23 | .05 | .05 | .00 | .05 | .05 | .05 | .00 | .37 | .50 | .05 | .23 | .14 | .00 | .09 | .14 | 1.97 | | | 1.97 | | | | |
| N | .83 | .96 | . 92 | . 14 | .37 | .50 | .55 | .73 | 1.38 | 1.01 | . 78 | .55 | .37 | . 18 | .46 | 1.10 | 10.83 | | | | 10.83 | | | |
| SS | .32 | .60 | .73 | .37 | .73 | 1.24 | .60 | 1.83 | 2.48 | 2.16 | .50 | .64 | .69 | .41 | .09 | .28 | 13.67 | | | | | 13.67 | | |
| MS | .23 | .46 | .00 | .00 | .00 | .37 | . 55 | .46 | .23 | .64 | .50 | .41 | . 14 | .09 | .09 | .37 | 4.54 | | | | | | 4.54 | |
| | | | | | | | | - | | | - | - | | · · | | | | | | | | | | |

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July-September 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

| SPEED | ••• | • • • • • • | • • • • • • | • • • • • • | ••••• | | WIND | DIREC | TION C | LASSES | ••••• | · · · · · · | | ••••• | ••••• | | | •••• | | STABI | LITY (| LASSES | | |
|-------|------|-------------|-------------|-------------|-------|-----|------|-------|--------|--------|-------|-------------|-----|-------|-------|-----|--------|------|-----|-------|--------|--------|------|-----|
| CLASS | N | NNE | NE | ENE | Е | ESE | SE | SSE | S | SSW | S₩ | WSW | W | WNW | NW | NNW | TOTAL. | EU | MU | SU | N | SS | MS | ES |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | •• | | | | | | | | | | | | | | | | | | | | | |
| EU | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | .23 | .41 | .41 | | | | | | |
| 1 MU | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 14 | .00 | .00 | .00 | .00 | .00 | .00 | .23 | | .23 | | | | | |
| 9 SU | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 14 | .00 | .00 | .00 | .05 | .00 | .28 | | | .28 | | | | |
| - N | .09 | .32 | . 14 | .00 | .00 | .00 | .23 | .05 | .23 | . 18 | .28 | .05 | .00 | .00 | .09 | .05 | 1.70 | | | | 1.70 | | | |
| 2 SS | .00 | .05 | .05 | .00 | . 14 | .41 | .05 | .00 | 1.15 | .55 | .14 | .05 | .14 | .05 | .00 | .28 | 3.03 | | | | | 3.03 | | |
| 4 MS | .28 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | .14 | .32 | .18 | .09 | .00 | .00 | .00 | .18 | 1.28 | | | | | | 1.28 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .23 | .00 | .00 | .00 | .00 | .00 | .28 | | | | | | 1.20 | .28 |
| | | | | | | | | | | | | | | | | | | | | | | | | .20 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| GMU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | | | | | |
| T SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | | | | |
| N | . 00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | | | | .00 | 14 | | | |
| 2 SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | | | | .14 | | | | . 14 | | | |
| | | | | | | | | .00 | .05 | .14 | .00 | .00 | .00 | .00 | .00 | .00 | . 18 | | | | | . 18 | | |
| 4 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .00 | .00 | .00 | .00 | .09 | | | | | | .09 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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TOT 5.14 8.21 7.89 6.79 5.92 5.00 5.69 6.88 10.18 10.28 5.55 5.50 4.82 2.71 4.22 5.23 100.00 3.58 5.87 8.21 34.27 33.39 12.29 2.39

Wind Direction by Stability

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| N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | -STABILITY CLASSES- |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------------|
| | | | | | | | | | | | | | | | | | |
| .55 | .46 | .64 | .09 | . 14 | . 18 | .00 | .05 | . 18 | .32 | . 14 | .09 | . 14 | .09 | .00 | .50 | 3.58 | Extremely Unstable |
| .23 | .69 | .73 | .32 | .28 | .37 | .46 | .46 | .32 | .55 | . 18 | .37 | .37 | .05 | . 14 | .37 | 5.87 | Moderately Unstable |
| . 50 | . 55 | .37 | .78 | .46 | .37 | .37 | .37 | .83 | .78 | .37 | .73 | .37 | . 18 | .64 | .55 | 8.21 | Slightly Unstable |
| 1.97 | 3.07 | 2.75 | 3.07 | 2.34 | 1.01 | 2.02 | 1.97 | 3.53 | 2.80 | 1.83 | 1.79 | 1.33 | .96 | 1.88 | 1.93 | 34.27 | Neutral |
| .60 | 2.02 | 2.80 | 2.06 | 2.48 | 2.57 | 1.74 | 2.66 | 4.63 | 4.04 | 1.70 | 1.42 | 1.74 | 1.15 | .83 | .96 | 33.39 | Slightly Stable |
| .83 | 1.33 | . 55 | .41 | .23 | .50 | 1.01 | 1.33 | .60 | 1.51 | 1.01 | . 96 | .64 | .23 | .46 | .69 | 12.29 | Moderately Stable |
| .46 | . 09 | .05 | .05 | . 00 | .00 | . 09 | .05 | . 09 | .28 | .32 | . 14 | .23 | .05 | .28 | .23 | 2.39 | Extremely Stable |

Wind Direction by Wind Speed

| N | NNE | NE | ENE | Е | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | -WIND SPEED CLASSES- |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------|
| | | | | | | | | | | | | | | | | | |
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | CALM |
| .09 | .28 | .09 | .37 | . 14 | .05 | .14 | .00 | . 14 | . 09 | . 09 | . 18 | . 09 | .05 | . 18 | .09 | 2.06 | 1.0 · 3.5 mph |
| .87 | 1.47 | 1.51 | 2.94 | 1.74 | .50 | .87 | 1.01 | . 96 | .73 | . 55 | .73 | .83 | .46 | . 78 | .37 | 16.33 | 3.6 - 7.5 mph |
| 1.61 | 3.72 | 4.31 | 2.98 | 2.71 | 1.70 | 2.48 | 2.66 | 2.80 | 3.30 | 1.79 | 2.39 | 2.34 | 1.47 | 2.29 | 1.97 | 40.50 | 7.6 - 12.5 mph |
| 2.06 | 2.25 | 1.79 | .50 | 1.19 | 2.29 | 1.88 | 3.07 | 4.63 | 4.68 | 2.16 | 2.02 | 1.42 | .69 | .78 | 2.06 | 33.49 | 12.6 · 18.5 mph |
| .50 | .50 | .18 | .00 | . 14 | .46 | .28 | . 09 | 1.61 | 1.24 | .96 | . 18 | .14 | .05 | . 14 | .73 | 7.20 | 18.6 - 24.5 mph |
| .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .05 | .23 | .00 | .00 | .00 | .00 | .05 | .00 | .41 | > 24.5 mph |

October-December 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2023 VALUES ARE PERCENT OCCURRENCE

| SPEED | ••• | • • • • • • | • • • • • | • • • • • • • • | • • • • • • | •••• | | DIREC | TION | CLASSE | s | | ••••• | ••••• | | •••• | | •••• | • • • • • | - stab | ILITY | CLASSE: | s | ••••• |
|-----------|------------|-------------|-------------|-----------------|-------------|-------------|------------|-------------|------------|-------------|-------------|------------|--------------|------------|------------|--------------|-------------|------|-------------------|--------|-------|---------|------|-------|
| CLASS | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | I N | SS | MS | ES |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | ••• | | | | | | | | | | | | | | | | |
| eu Mu | .00 .00 | .00 .00 | .00. .00 | .00 .00 | .00 .00 | .00. 00. | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 .00 | 00. 00. | .00 00. | .00 .00 | .00 .00 | .00 .00 | .00 .00 | .00 | .00 | | | | | |
| C SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | .00 | | | | |
| A N | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | .00 | .00 | | | |
| L SS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | .00 | | |
| 1 MS | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | .00 |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | |
| LSU | .00 | .00 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .10 | | .00 | . 10 | | | | |
| N | .05 | .15 | . 15 | . 10 | .00 | . 15 | . 10 | .00 | .00 | .05 | .10 | .05 | .00 | .05 | .10 | .05 | 1.09 | | | | 1.09 | | | |
| 3 SS | .00 | . 10 | .05 | .00 | .05 | .00 | .05 | .00 | .00 | . 10 | .05 | .05 | .10 | .10 | .00 | .05 | .69 | | | | | .69 | | |
| MS | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .05 | . 10 | .00 | .15 | .05 | .10 | .05 | .00 | .00 | .54 | | | | | | .54 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | .00 | .00 | .10 | | | | | | | . 10 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | .00 | .00 | .05 | .05 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | . 10 | . 10 | | | | | | |
| MU ISU | .15 .05 | .00 .10 | .00 .05 | .05 .00 | .00 .05 | .00 | 00. 00. | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .00 | .05 | .30 | | .30 | ~ | | | | |
| N | .44 | . 15 | .05 | . 74 | . 54 | .00 .49 | .40 | .05 .79 | .00 .25 | .00 .20 | .05 .30 | .10 .30 | . 15 . 40 | .00 .49 | .05 .44 | .00 .44 | .64 6.62 | | | .64 | 6.62 | | | |
| ' SS | . 15 | . 15 | .00 | .40 | .30 | .05 | .15 | .35 | .20 | .20 | .20 | .30 | .20 | .30 | .49 | .25 | 3.81 | | | | 0.02 | 3.81 | | |
| MS | .05 | .20 | .05 | .20 | . 15 | . 15 | .20 | .30 | .20 | . 15 | .25 | . 15 | .20 | . 10 | .25 | .00 | 2.57 | | | | | 5.01 | 2.57 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .25 | .00 | .00 | .00 | .00 | .25 | | | | | | , | .25 |
| 511 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | 00 | 05 | 10 | | | ••• | | | | | | | |
| eu Mu | .00 .00 | .00. .00 | .00. .00 | .00 .00 | .00. .00 | .00 .10 | .00 .00 | .00. .00 | .00 .00 | .00 | .00. .00 | .00 | .05 | . 15 | .00 | .00 | .20 | .20 | <i>с</i> л | | | | | |
| SU | .05 | .00 | .00 | .00 | .00 | . 10 | .05 | .15 | .15 | .00. .00 | .05 | .25 .25 | .05 .10 | .05 .00 | .10 .05 | .10 .05 | .64 .94 | | .64 | .94 | | | | |
| N | .20 | .44 | .89 | 1.19 | .84 | .35 | .35 | .84 | .25 | .40 | .49 | .84 | 2.13 | .84 | .99 | .44 | 11.47 | | | . 94 | 11.47 | | | |
| SS | .35 | .25 | .49 | .40 | .30 | .25 | .54 | 1.04 | .40 | .74 | .99 | 1.14 | .20 | .44 | .69 | .25 | 8.45 | | | | | 8.45 | | |
| MS | . 10 | . 15 | . 10 | . 10 | .10 | .00 | .20 | .44 | .00 | .30 | .25 | .74 | .74 | .35 | .20 | .10 | 3.86 | | | | | | 3.86 | |
| ES | .05 | . 15 | .05 | . 00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | .20 | .20 | .00 | .05 | . 74 | | | | | | | .74 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | 10 | | | | | | | | | | | |
| eu Mu | .00 .00 | .00. .00 | .00 .00 | .00. .00 | .00. .00 | .00 .05 | .00 .10 | .00 .05 | .00 .00 | .00 .00 | .00 .10 | .00 .10 | .10 .20 | .15 .20 | .20 | .00 | .44 | .44 | 04 | | | | | |
| SU | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | .00 | .00 | . 10 | . 10 | .20 .05 | .20 .40 | .15 .10 | .00. .00. | .94 1.58 | | .94 | 1.58 | | | | |
| N | .69 | .54 | .99 | .15 | .69 | . 54 | .40 | . 94 | .59 | .89 | 1.29 | | 3.26 | 2.42 | . 89 | | 1.56 | | | | 16.31 | | | |
| SS | .35 | .30 | .35 | .00 | .69 | .64 | 1.14 | .54 | .79 | 1.43 | .64 | | 1.58 | 1.48 | .35 | | 11.72 | | | | | 11.72 | | |
| | | | .00 | .00 | .00 | | | | | | | | | | | | | | | | | | | |
| MS | .35 | .05 | .00 | .00 | .00 | .20 | .44 | .05 | .40 | .54 | .40 | .20 | .15 | .40 | .25 | .44 | 3.86 | | | | | | 3.86 | |

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October-December 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

| PEED LASS | N | MME | NE | ENE | F | FCL | er | D DIRE | | | | 11011 | | | | | TOTAL | - ··· | | | | | | |
|--------------|---|---|---|---|--|---|--|---|--|---|---|---|---|---|--|---|---|---|--|--|--|-------|-------|---|
| LA22 | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | TOTAL | EU | MU | SU | N | SS | MS | |
| EU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | |
| MU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .00 | .05 | . 15 | .00 | .05 | .00 | .05 | .10 | .44 | | .44 | | | | | |
| SU | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .05 | .05 | .05 | .05 | .00 | . 05 | .10 | .35 | | | .35 | | | | |
| N | .35 | .20 | .05 | .00 | . 10 | . 15 | .35 | .35 | .79 | .44 | .49 | . 99 | 2.72 | 1.04 | 1.09 | . 69 | 9.79 | | | | 9.79 | | | |
| SS | . 15 | .05 | .00 | .00 | . 15 | .44 | .64 | .05 | 1.09 | .64 | .30 | .00 | . 35 | .35 | .00 | .35 | 4.55 | | | | | 4.55 | | |
| MS | .05 | .00 | .00 | .00 | .00 | .05 | .00 | .00 | . 15 | .35 | .00 | .00 | . 15 | .20 | .00 | .05 | . 99 | | | | | | . 99 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .15 | . 10 | .00 | .05 | .10 | .00 | .00 | .40 | | | | | | | |
| EU | .00 | .00 | .00 | .00 | .00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | | | | | | | | | |
| .u 1U | .00 | .00 | .00 | .00 | .00 | .00. .00 | .00. .00 | .00. .00 | .00 .00 | .00 .00 | .00. .00 | .00. .00 | .00 .00 | .00 .00 | .00. .00 | .00. .00 | .00 .00 | .00 | .00 | | | | | |
| 50 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | .00 | .05 | | | | |
| N | .00 | .05 | .05 | .00 | .00 | .64 | .00 | .00 | .20 | . 10 | .00 | .30 | 1.38 | .00 | .00 | .30 | 3.51 | | | .05 | 3.51 | | | |
| SS | .00 | .05 | .00 | .00 | .00 | .05 | .00 | .25 | .20 | . 10 | .00 | .00 | .00 | .00 | .00 | .00 | .64 | | | | 5.51 | .64 | | |
| 1S | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | .00 | |
| ES | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | | | | | | | |
|)Т : | 3.66 | 3.06 | 3.61 | 3.41 | 4.00 | 4.45 | 5.09 | 6.57 | 5.78 | 7.41 | 6.72 | 8.80 | 15.22 | 10.43 | 6.67 | 5.09 | 100.00 | .74 | 2.32 | 3.66 | 48.79 | 29.86 | 11.81 | 2 |
| | | | 3.61 by Stab | | 4.00 | 4.45 | 5.09 | 6.57 | 5.78 | 7.41 | 6.72 | 8.80 | 15.22 | 10.43 | 6.67 | 5.09 | 100.00 | . 74 | 2.32 | 3.66 | 48.79 | 29.86 | 11.81 | 2 |
| | | | | | 4.00 E | 4.45 ESE | 5.09 SE | 6.57 SSE | 5.78 S | 7.41 SSW | 6.72 SW | 8.80 WSW | 15.22 W | 10.43 WNW | 6.67 NW | 5.09 NNW | 100.00 TOTAL | | 2.32 BILIT | | | 29.86 | 11.81 | 2 |
| | Direc | tion b | y Stab | oility | | | | | | | | | | | | | | • STA | | (CLAS | SES- | 29.86 | 11.81 | 2 |
| | Direc N | tion b NNE | y Stab NE | oility ENE | E | ESE | SE | SSE | S | SSW | S₩ | WSW | W | wnw | NW | NNW | TOTAL | •STA Extr | BILITY | (CLAS Unsta | SES- | 29.86 | 11.81 | 2 |
| | Direc N .00 | tion b NNE .00 | y Stab NE .05 | oility ENE .05 | E .00 | ESE .00 | SE .00 | SSE .00 | S .00 | SSW .00 | SW .00 | WSW .00 | W . 15 | wnw .30 | ₩ .20 | NNW .00 | TOTAL .74 | •STA Extr Mode | BILIT | (CLAS Unsta (Unst | SES- ble able | 29.86 | 11.81 | 2 |
| ind (| Direc N .00 .15 .10 1.73 | tion b NNE .00 .00 .10 1.53 | y Stab NE .05 .00 .10 2.37 | 0111ty ENE .05 .05 .05 2.17 | E .00 .00 .05 2.17 | ESE .00 .15 .15 2.32 | SE .00 .10 .05 1.58 | SSE .00 .10 .49 2.92 | S .00 .15 2.08 | SSW .00 .05 | SW .00 .25 | WSW .00 .40 | W .15 .30 | WNW .30 .25 | ₩ .20 .30 | NN₩ .00 .25 | TOTAL .74 2.32 | •STA Extr Mode | BILIT) emely rately htly (| (CLAS Unsta (Unst | SES- ble able | 29.86 | 11.81 | 2 |
| nd (| Direc N .00 .15 .10 1.73 .99 | tion b NNE .00 .00 .10 1.53 .89 | y Stab NE .05 .00 .10 2.37 .89 | ENE .05 .05 .05 2.17 .79 | E .00 .00 .05 2.17 1.48 | ESE .00 .15 .15 2.32 1.43 | SE .00 .10 .05 1.58 2.52 | SSE .00 .10 .49 2.92 2.22 | S .00 .15 2.08 2.67 | SSW .00 .05 .30 2.08 3.21 | SW .00 .25 .35 2.72 2.17 | WSW .00 .64 3.81 2.52 | W .15 .30 .35 9.89 2.42 | WNW .30 .25 .40 5.29 2.67 | NW .20 .30 .25 3.51 1.53 | NNW .00 .25 .15 2.62 1.43 | TOTAL .74 2.32 3.66 48.79 29.86 | -STA Extr Mode Slig Neut | BILIT) emely rately htly (| / CLAS Unsta / Unst Instab | SES- ble able le | 29.86 | 11.81 | 2 |
| nd (| Direc N .00 .15 .10 1.73 | tion b NNE .00 .00 .10 1.53 | y Stab NE .05 .00 .10 2.37 | 0111ty ENE .05 .05 .05 2.17 | E .00 .00 .05 2.17 | ESE .00 .15 .15 2.32 | SE .00 .10 .05 1.58 | SSE .00 .10 .49 2.92 | S .00 .15 2.08 | SSW .00 .05 .30 2.08 | SW .00 .25 .35 2.72 | WSW .00 .40 .64 3.81 | W .15 .30 .35 9.89 | WNW .30 .25 .40 5.29 | NW .20 .30 .25 3.51 | NNW .00 .25 .15 2.62 | TOTAL .74 2.32 3.66 48.79 | -STA Extr Mode Slig Neut Slig Mode | BILIT) emely rately htly { ral | (CLAS Unsta (Unst Instab itable (Stab | SES- ble able le le | 29.86 | 11.81 | 2 |
| nd [| Direc N .00 .15 .10 1.73 .99 .54 .15 | NNE .00 .00 .10 1.53 .89 .40 .15 | V Stab NE .05 .00 .10 2.37 .89 .15 .05 | ENE .05 .05 2.17 .79 .30 | E .00 .05 2.17 1.48 .30 .00 | ESE .00 .15 2.32 1.43 .40 | SE .00 .10 .05 1.58 2.52 .84 | SSE .00 .10 2.92 2.22 .84 | S .00 .15 2.08 2.67 .84 | SSW .00 .05 .30 2.08 3.21 1.33 | SW .00 .25 .35 2.72 2.17 1.04 | WSW .00 .64 3.81 2.52 1.14 | W .15 .30 .35 9.89 2.42 1.33 | WNW .30 .25 .40 5.29 2.67 1.09 | NW .20 .30 .25 3.51 1.53 .69 | NNW .00 .25 .15 2.62 1.43 .59 | TOTAL .74 2.32 3.66 48.79 29.86 11.81 | -STA Extr Mode Slig Neut Slig Mode | BILIT) emely rately htly U ral htly S rately | (CLAS Unsta (Unst Instab itable (Stab | SES- ble able le le | 29.86 | 11.81 | 2 |
| nd [| Direc N .00 .15 .10 1.73 .99 .54 .15 | NNE .00 .00 .10 1.53 .89 .40 .15 | V Stab NE .05 .00 .10 2.37 .89 .15 .05 | ENE .05 .05 2.17 .79 .30 .00 | E .00 .05 2.17 1.48 .30 .00 | ESE .00 .15 2.32 1.43 .40 | SE .00 .10 .05 1.58 2.52 .84 | SSE .00 .10 2.92 2.22 .84 | S .00 .15 2.08 2.67 .84 | SSW .00 .05 .30 2.08 3.21 1.33 | SW .00 .25 .35 2.72 2.17 1.04 | WSW .00 .64 3.81 2.52 1.14 | W .15 .30 .35 9.89 2.42 1.33 | WNW .30 .25 .40 5.29 2.67 1.09 | NW .20 .30 .25 3.51 1.53 .69 | NNW .00 .25 .15 2.62 1.43 .59 | TOTAL .74 2.32 3.66 48.79 29.86 11.81 | -STA Extr Mode Slig Neut Slig Mode Extr | BILIT) emely rately htly U ral htly S rately | (CLAS Unsta Unstab Instable Stabl Stabl | SES. ble able le le | 29.86 | 11.81 | 2 |
| ind (| Direc N .00 .15 .10 1.73 .99 .54 .15 Direc N | NNE .00 .00 .10 1.53 .89 .40 .15 tion b NNE | VY Stab NE .05 .00 .10 2.37 .89 .15 .05 y Wind NE | ENE .05 .05 2.17 .79 .30 .00 Speed ENE | E .00 .05 2.17 1.48 .30 .00 | ESE .00 .15 .15 2.32 1.43 .40 .00 ESE | SE .00 .10 .05 1.58 2.52 .84 .00 SE | SSE .00 .10 .49 2.92 2.22 .84 .00 SSE | S .00 .15 2.08 2.67 .84 .05 S | SSW .00 .05 .30 2.08 3.21 1.33 .44 SSW | SW .00 .25 .35 2.72 2.17 1.04 .20 SW | WSW .00 .64 3.81 2.52 1.14 .30 | W .15 .30 .35 9.89 2.42 1.33 .79 W | WNW .30 .25 .40 5.29 2.67 1.09 .44 | NW .20 .30 .25 3.51 1.53 .69 .20 | NN₩ .00 .25 .15 2.62 1.43 .59 .05 | TOTAL 2.32 3.66 48.79 29.86 11.81 2.82 | -STA Extr Mode Slig Mode Extr | BILIT) emely ratelj htly L ral htly S ratelj emely D SPEE | (CLAS Unsta Unstab Instab itable Stab Stab Stab D CLA | SES. ble able le le | 29.86 | 11.81 | 2 |
| nd [| Direc N .00 .15 .10 1.73 .99 .54 .15 Direct N | tion b NNE .00 .00 .10 1.53 .89 .40 .15 tion b NNE .00 | y Stab NE .05 .00 .10 2.37 .89 .15 .05 y Wind NE .00 | ENE .05 .05 2.17 .79 .30 .00 Speed ENE .00 | E .00 .05 2.17 1.48 .30 .00 E .00 | ESE .00 .15 2.32 1.43 .40 .00 ESE .00 | SE .00 .10 .05 1.58 2.52 .84 .00 SE .00 | SSE .00 .10 .49 2.92 2.22 .84 .00 SSE .00 | S .00 .15 2.08 2.67 .84 .05 S .00 | SSW .00 .05 .30 2.08 3.21 1.33 .44 SSW .00 | SW .00 .25 2.72 2.17 1.04 .20 SW .00 | WSW .00 .40 .64 3.81 2.52 1.14 .30 WSW .00 | W .15 .30 .35 9.89 2.42 1.33 .79 W | WNW .30 .25 .40 5.29 2.67 1.09 .44 WNW | NW .20 .30 .25 3.51 1.53 .69 .20 NW | NNW .00 .25 .15 2.62 1.43 .59 .05 | TOTAL 2.32 3.66 48.79 29.86 11.81 2.82 TOTAL .00 | •STA Extr Mode Slig Mode Extr •WIN | BILIT) emely ratelj htly (ral htly S ratelj emely D SPEE A L M | (CLAS Unsta Unstab Instable Stable Stabl D CLA | SES- ble able le e | 29.86 | 11.81 | 2 |
| nd [| Direc N .00 .15 .10 1.73 .99 .54 .15 Direct N .00 .05 | tion b NNE .00 .00 .10 1.53 .89 .40 .15 tion b NNE .00 .25 | y Stab NE .05 .00 .10 2.37 .89 .15 .05 y Wind NE .00 .25 | .05 .05 .05 2.17 .79 .30 .00 Speed ENE .00 .15 | E .00 .05 2.17 1.48 .30 .00 E .00 | ESE .00 .15 2.32 1.43 .40 .00 ESE .00 .15 | SE .00 .10 .05 1.58 2.52 .84 .00 SE .00 .15 | SSE .00 .10 .49 2.92 2.22 .84 .00 SSE .00 .05 | S .00 .15 2.08 2.67 .84 .05 S .00 .10 | SSW .00 .05 .30 2.08 3.21 1.33 .44 SSW .00 .15 | SW .00 .25 2.72 2.17 1.04 .20 SW .00 .30 | WSW .00 .40 .64 3.81 2.52 1.14 .30 WSW .00 .20 | W .15 .30 .35 9.89 2.42 1.33 .79 W .00 .20 | WNW .30 .25 .40 5.29 2.67 1.09 .44 WNW .00 .25 | NW .20 .30 .25 3.51 1.53 .69 .20 NW .00 .10 | NNW .00 .25 .15 2.62 1.43 .59 .05 NNW .00 .10 | TOTAL .74 2.32 3.66 48.79 29.86 11.81 2.82 TOTAL .00 2.52 | -STA Extr Mode Slig Mode Extr -WIN C 1 | BILIT) emely rately tral htly S rately cmely D SPEE A L M .0 - | (CLAS Unsta Unstable Stable Stabl D CLA I 3.5 m | SES- ble able le e SSES- | 29.86 | 11.81 | 2 |
| ind (| Direc N .15 .10 1.73 .99 .54 .15 Direct N .00 .05 .84 | tion b NNE .00 .10 1.53 .89 .40 .15 tion b NNE .00 .25 .59 | y Stab NE .05 .00 .10 2.37 .89 .15 .05 y Wind NE .00 .25 .40 | ENE .05 .05 .05 2.17 .79 .30 .00 .00 .00 .15 1.43 | E .00 .05 2.17 1.48 .30 .00 E .00 .10 | ESE .00 .15 2.32 1.43 .00 .00 .15 .69 | SE .00 .10 .05 1.58 2.52 .84 .00 SE .00 .15 .74 | SSE .00 .10 .49 2.92 2.22 .84 .00 SSE .00 .05 1.48 | S .00 .15 2.08 2.67 .84 .05 S .00 .10 .64 | SSW .00 .05 .30 2.08 3.21 1.33 .44 SSW .00 .15 .54 | SW .00 .25 2.72 2.17 1.04 .20 SW .00 .30 .79 | WSW .00 .40 .64 3.81 2.52 1.14 .30 WSW .00 .20 1.29 | W .15 .30 .35 9.89 2.42 1.33 .79 W W .00 .20 .94 | WNW .30 .25 .40 5.29 2.67 1.09 .44 WNW .00 .25 .89 | NW .20 .30 .25 3.51 1.53 .69 .20 NW .00 .10 1.24 | NNW .00 .25 .15 2.62 1.43 .59 .05 NNW .00 .10 .74 | TOTAL .74 2.32 3.66 48.79 29.86 11.81 2.82 TOTAL .00 2.52 14.29 | -STA Extr Mode Slig Neut Slig Extr -WIN C 1 3 | BILIT) emely rately htly L ral htly S rately emely D SPEE A L M .0 - .6 - | (CLAS Unsta / Unst itable / Stab Stab1 D CLA I 3.5 m 7.5 m | SES- ble able le e SSES- SSES- | 29.86 | 11.91 | 2 |
| ind [] | Direc N .15 .10 1.73 .99 .54 .15 Direc N .00 .05 .84 .74 | tion b NNE .00 .10 1.53 .89 .40 .15 tion b NNE .00 .25 .59 .99 | y Stab NE .05 .00 .10 2.37 .89 .15 .05 y Wind NE .00 .25 .40 1.53 | ENE .05 .05 .05 2.17 .79 .30 .00 Speed ENE .00 .15 1.43 1.68 | E .00 .05 2.17 1.48 .30 .00 E .00 .10 1.04 1.24 | ESE .00 .15 .15 2.32 1.43 .40 .00 ESE .00 .15 .69 .74 | SE .00 .10 .05 1.58 2.52 .84 .00 .55 .74 1.14 | SSE .00 .10 2.92 2.22 .84 .00 SSE .00 .05 1.48 2.47 | S .00 .15 2.08 2.67 .84 .05 S .00 .10 .64 .79 | SSW .00 .05 .30 2.08 3.21 1.33 .44 SSW .00 .15 .54 1.48 | SW .00 .25 .35 2.72 2.17 1.04 .20 SW .00 .30 .79 1.78 | WSW .00 .40 .64 3.81 2.52 1.14 .30 WSW .00 .20 1.29 3.21 | W .15 .30 .35 9.89 2.42 1.33 .79 W .00 .20 .94 3.46 | WNW .30 .25 .40 5.29 2.67 1.09 .44 WNW .00 .25 .89 2.03 | NW .20 .30 .25 3.51 1.53 .69 .20 NW .00 .10 1.24 2.03 | NN₩ .00 .25 .15 2.62 1.43 .59 .05 NN₩ .00 .10 .74 .99 | TOTAL .74 2.32 3.66 48.79 29.86 11.81 2.82 TOTAL .00 2.52 14.29 26.30 | -STA Extr Mode Slig Neut Slig Mode Extr -WIN C 1 3 3 7 | BILIT) emely rately htly L ral htly S rately emely D SPEE A L M .0 - .6 - .6 - 1 | (CLAS Unsta / Unst itable (Stab Stab D CLA I 3.5 m 7.5 m 2.5 m | SES- ble able le e SSES- SSES- ph oh | 29.86 | 11.91 | 2 |
| ind [1 | Direc N .15 .10 1.73 .99 .54 .15 Direct N .00 .05 .84 | tion b NNE .00 .10 1.53 .89 .40 .15 tion b NNE .00 .25 .59 .99 | y Stab NE .05 .00 .10 2.37 .89 .15 .05 y Wind NE .00 .25 .40 | ENE .05 .05 .05 2.17 .79 .30 .00 Speed ENE .00 .15 1.43 1.68 | E .00 .05 2.17 1.48 .30 .00 E .00 .10 | ESE .00 .15 2.32 1.43 .00 .00 .15 .69 | SE .00 .10 .05 1.58 2.52 .84 .00 .55 .74 1.14 | SSE .00 .10 .49 2.92 2.22 .84 .00 SSE .00 .05 1.48 2.47 1.88 | S .00 .15 2.08 2.67 .84 .05 S .00 .10 .64 .79 1.83 | SSW .00 .05 .30 2.08 3.21 1.33 .44 SSW .00 .15 .54 1.48 3.31 | SW .00 .25 .35 2.72 2.17 1.04 .20 SW .00 .30 .79 1.78 2.72 | WSW .00 .64 3.81 2.52 1.14 .30 WSW .00 .20 1.29 3.21 2.77 | W .15 .30 .35 9.89 2.42 1.33 .79 W .00 .20 .94 3.46 5.88 | WNW .30 .25 .40 5.29 2.67 1.09 .44 WNW .00 .25 .89 | NW .20 .25 3.51 1.53 .69 .20 NW .00 .10 1.24 2.03 2.13 | NNW .00 .25 .15 2.62 1.43 .59 .05 NNW .00 .10 .74 .99 1.68 | TOTAL .74 2.32 3.66 48.79 29.86 11.81 2.82 TOTAL .00 2.52 14.29 | -STA Extr Mode Slig Mode Extr -WIN C 1 3 7 7 22 | BILIT) emely rately htly L ral htly S rately emely D SPEE A L M .0 - .6 - | (CLAS Unsta /Unstab itable Stabl Stabl DCLA i 3.5 m 7.5 m 2.5 m 8.5 m | SES- ble able le e SSSES- ssSES- ph ph ph ph ph | 29.86 | 11.81 | 2 |