

Exelon Generation Company, LLC Dresden Nuclear Power Station 6500 North Dresden Road Morris, IL 60450–9765

www.exeloncorp.com

Nuclear

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

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

NRC Dockets 50-10, 50-237 and 50-249

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 Swafford 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

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.

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.

 $E_{GAMMA}$  = 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

	FIGGION & ACTIVATION CAGEG	<u>UNITS</u>	1 <sup>ST</sup> Quarter	2 <sup>nd</sup> Quarter	Est. Total Error, %
<u>A.</u>	FISSION & ACTIVATION GASES	1	1		
	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		1.107.00		
	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	
<u>C.</u>	PARTICULATES  1. Particulates with half-lives > 8 days  2. Average Release Rate for the Period	Ci	5.30E-03	4.96E-03	34.1%
		μCi/sec	6.74E-04 *	6.31E-04	
		%	,	*	
	4. Gross Alpha Radioactivity	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	%	*	*	

<sup>\*</sup>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

A.	FISSION & ACTIVATION GASES	<u>UNITS</u>	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter	Est. Total Error, %
	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	7.5170
-	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	- O:	0.057 00		
	Particulates with half-lives > 8 days     Average Release Rate for the Period	Ci	2.25E-03	4.14E-03	34.1%
		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	%	*	*	

<sup>\*</sup>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

### 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.

January Through December 2000

D1 MAIN CHIMNEY	GASEOUS EFFLUENTS	DOCKET NUMBERS: 50-010
	GROUND LEVEL RELEASES	
	SEMI-ELEVATED RELEASES	
. XX	ELEVATED RELEASES	

#### **CONTINUOUS MODE**

NUCLIDES RELEASED	UNIT	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> 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-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	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	*	*	*	*	*
Sn-113	Ci	*	*	*	*	*
Sb-124	Ci	*	*	*	*	*
Sb-125	Ci	*	*	*	*	*
Cs-134	Ci	*	*	*	*	*
Cs-136	Ci	*	*	*	*	*
Cs-137	Ci	*	1.83E-07	3.44E-07	*	5.27E-07
Ba-133	Ci	*	*	*	*	3.27E-07
Ba-140	Ci	*	*	*	*	*
Ce-141	Ci	*	*	*	*	*
Ce-144	Ci	*	*	*	*	*
TOTAL	Ci	2.92E-06	4.20E-06	6.39E-07	4.37E-07	8.19E-06

<sup>\*</sup> The activity of this nuclide is less than the LLD.

January Through December 2000

D1 MAIN CHIMNEY	GASEOUS EFFLUENTS	DOCKET NUMBERS: 50-010
	GROUND LEVEL RELEASES	
XX	SEMI-ELEVATED RELEASES ELEVATED RELEASES	

#### **BATCH MODE**

NUCLIDES RELEASED	UNIT	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	TOTAL
FISSION GASES						
Ar-41	Ci	*	*	*	*	*
Kr-85	Ci	*	*	1.10E+01	*	
Kr-85m	Ci	*	*	*	*	1.10E+0 *
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+0
IODINES		· · · · · · · · · · · · · · · · · · ·				1110210
I-131	Ci	*	*	*	*	
I-133	Ci	*	*	*	*	*
I-135	Ci	*	*	*	*	*
TOTAL	Ci	None	None	None	None	<del></del>
PARTICULATES			rone	None	None	None
Fe-55	C:	*				
Sr-89	Ci 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			<del></del>		<del></del>

<sup>\*</sup> The activity of this nuclide is less than the LLD.

January Through December 2000

D2/3 REACTOR BUILDING VENT	02/3	REACTOR	<b>BUILDING</b>	VENT
----------------------------	------	---------	-----------------	------

**GASEOUS EFFLUENTS** 

DOCKET NUMBERS: 50-237/50-249

XX

GROUND LEVEL RELEASES SEMI-ELEVATED RELEASES ELEVATED RELEASES

#### CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> 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	*	*	8.33E-04	3.85E-03
TOTAL	Ci	4.26E-03	5.51E-05	1.72E-04	8.81E-04	5.37E-03
PARTICULATES		** · · · · · · · · · · · · · · · · · ·				
Fe-55	Ci	3.50E-04	1.42E-04	3.30E-04	2.46E-04	1.07E-03
Sr-89	Ci	*	*	*	*	*
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	*	*	*	*	*
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
Co-60	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	*	*	*	*	*
Sr-89	、 Ci	6.63E-06	1.49E-07	*	1.97E-06	8.75E-06
Sr-90	Ci	1.27E-06	4.08E-08	*	*	1.31E-06
Zr-95	Ci	*	*	*	*	*
Mo-99	Ci	5.82E-05	*	*	*	5.82E-05
Ru-103	Ci	*	*	*	*	*
Ag-110m	Ci	*	*	*	*	*
Sn-113	Ci	2.07E-06	*	*	*	2.07E-06
Sb-124	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

<sup>\*</sup> The activity of this nuclide is less than the LLD.

January Through December 2000

D2/3 REACTOR BUILDING VENT	GASEOUS EFFLUENTS	DOCKET NUMBERS: 50-237/50-249
vv	GROUND LEVEL RELEASES	
<u> </u>	SEMI-ELEVATED RELEASES ELEVATED RELEASES	

#### **BATCH MODE**

NUCLIDES RELEASED	UNIT	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	TOTAL
FISSION GASES						
Ar-41	Ci					
Kr-85	Ci					
Kr-85m	Ci				<del>                                     </del>	
Kr-87	Ci					
Kr-88	Ci				<del> </del>	<del></del>
Xe-133	Ci	····				
Xe-133m	Ci	- ,,,,,				
Xe-135	Ci		·····		<del> </del>	
Xe-135m	Ci		****			<del>                                     </del>
Xe-138	Ci					
TOTAL	Ci	None	None	None	None	None
IODINES						
	<del>                                     </del>				ļ	
I-131	Ci					
I-133	Ci				ļ	
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				<u> </u>	
Sr-85	Ci				<u> </u>	
Zr-95	Ci				<del> </del>	
Mo-99	Ci					
Ru-103	Ci					
Ag-110m	Ci					
Sn-113	Ci					
Sb-124	Ci					
Sb-125	Ci				ļ	
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

<sup>\*</sup> The activity of this nuclide is less than the LLD.

January Through December 2000

DOCKET NUMBERS: 50-237/50-249

D2/3 Main Chimney	GASEOUS EFFLUENTS
	GROUND LEVEL RELEASES SEMI-ELEVATED RELEASES
. XX	ELEVATED RELEASES

#### **CONTINUOUS MODE**

NUCLIDES RELEASED	UNIT	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	TOTA
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+(
Kr-85m	Ci	2.81E+00	1.81E+00	4.55E-01	2.43E-01	5.32E+(
Kr-87	Ci	8.29E-01	9.14E-01	8.68E-01	6.95E-01	3.31E+(
Kr-88	Ci	1.86E+00	9.84E-01	7.28E-01	5.64E-01	4.13E+(
Xe-131m	Ci	*	2.32E-02	*	*	2.32E-0
Xe-133	Ci	5.03E+00	3.10E+00	9.91E-01	3.69E-01	9.49E+(
Xe-133m	Ci	*	1.29E-03	*	*	1.29E-0
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	2.06E+0
Xe-138	Ci	1.75E+01	1.85E+01	1.69E+01	1.29E+01	6.58E+0
TOTAL	Ci	3.39E+02	1.98E+02	4.32E+01	2.71E+01	6.07E+0
IODINES						
I-131	Ci	9.84E-04	1.38E-03	1.41E-03	5.91E-04	4.275.0
I-133	Ci	6.77E-03	8.49E-03	6.72E-03	2.72E-03	4.37E-0 2.47E-0
I-135	Ci	2.33E-02	3.75E-02	2.65E-02	1.80E-03	
TOTAL	Ci	3.10E-02	4.74E-02	3.47E-02	5.10E-03	8.92E-0 1.18E-0
PARTICULATES				55 02	3.105-03	1.186-0
Fe-55	Ci	3.56E-04	1.010.04	2 575 04	1.007.00	
Be-7	Ci	*	1.81E-04 *	3.57E-04	1.20E-03 *	2.09E-03
Cr-51	Ci	2.64E-04	2.32E-04	*		
Mn-54	Ci	1.89E-04	3.42E-05	5.92E-05	8.14E-05	5.77E-04
Co-57	Ci	*	*	3.92E-03 *	5.27E-04 *	8.09E-04 *
Co-58	Ci	3.89E-05	9.04E-06	1.16E-05		
Fe-59	Ci	*	7.04L-00 *	1.10E-03	5.43E-05	1.14E-04
Co-60	Ci	3.11E-04	2.49E-04	3.24E-04	4.07E-05 3.97E-04	4.07E-05
Zn-65	Ci	1.64E-05	5.75E-05	7.21E-06	1.21E-04	1.28E-03
Sr-85	Ci	*	2.99E-03	1.29E-05	1.21E-U4 *	2.02E-04
Y-88	Ci	*	*	2.06E-06	*	3.00E-03
Sr-89	Ci	3.50E-04	2.83E-04	3.43E-04	2.67E-04	2.06E-06
Sr-90	Ci	4.11E-08	1.35E-06	2.11E-06	2.06E-06	1.24E-03
Zr-95	Ci	*	*	*	*	5.55E-06 *
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	3.72E-05
Sb-124	Ci	*	*	*	*	3.72E-03 *
Sb-125	Ci	*	1.41E-05	1.78E-05	*	3.19E-05
Cs-134	Ci	*	5.38E-05	*	1.13E-05	6.51E-05
Cs-137	Ci	1.65E-06	*	*	*	
Ba-140	Ci	5.18E-04	6.54E-04	5.99E-04	5.18E-04	1.65E-06 2.29E-03
Ce-141	Ci	*	*	*	*	2.29E-03 *
Ce-144	Ci	*	*	*	*	*
TOTAL	Ci	2.04E-03	4.76E-03	1.77E-03	3.60E-03	1.22E-02

<sup>\*</sup> The activity of this nuclide is less than the LLD.

January	Through Dec	cember 2000
---------	-------------	-------------

D2/3 MAIN CHIMNEY	GASEOUS EFFLUENTS	DOCKET NUMBERS: 50-237/50-249
XX	GROUND LEVEL RELEASES SEMI-ELEVATED RELEASES ELEVATED RELEASES	

#### BATCH MODE

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

<sup>\*</sup> The activity of this nuclide is less than the LLD.

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

CHEMICAL CLEANING BUILDING	GASEOUS EFFLUENT		
XX	GROUND LEVEL RELEASES SEMI-ELEVATED RELEASES		
	ELEVATED RELEASES		

#### **CONTINUOUS MODE**

NUCLIDES RELEASED	UNIT	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> 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					1.0.10	Tione
Fe-55	Ci	*	*	2.75E-06	4.65E-08	2.705.00
Sr-89	Ci	*	*	*	*	2.79E-06 *
Sr-90	Ci	*	*	*	*	*
Be-7	Ci	*	*	*	*	*
Cr-51	Ci	*	*	*	*	*
Mn-54	Ci	1.57E-07	*	2.20E-07	*	
Co-57	Ci	*	*	*	*	3.77E-07 *
Co-58	Ci	*	*	*	*	*
Fe-59	Ci	*	*	*	*	*
Co-60	Ci	4.39E-07	8.00E-08	*	*	5.19E-07
Zn-65	Ci	*	*	*	*	3.19E-07 *
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	*	*	*	*	*
						L

<sup>\*</sup> The activity of this nuclide is less than the LLD.

January Through December 2000

CHEMICAL CLEANING BUILDING	GASEOUS EFFLUENTS	DOCKET NUMBERS: 50-010/50-237/50-249
	GROUND LEVEL RELEASES	
XX	SEMI-ELEVATED RELEASES	
	ELEVATED RELEASES	

#### BATCH MODE

NUCLIDES RELEASED	UNIT	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	TOTAL
FISSION GASES						
Ar-41	Ci					<b>†</b>
Kr-85	Ci				-	<del> </del>
Kr-85m	Ci					<del> </del>
Kr-87	Ci					<del> </del>
Кг-88	Ci					
Xe-133	Ci					<del> </del>
Xe-133m	Ci					<del>                                     </del>
Xe-135	Ci					
Xe-135m	Ci					<del> </del>
Xe-138	Ci					
TOTAL	Ci	None	None	None	None	None
IODINES		-				
I-131	Ci		W-W			
I-133	Ci					
I-135	Ci				<del> </del>	
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				<u> </u>	
Sr-85	Ci					
Zr-95	Ci					
Mo-99	Ci			-		
Ru-103	Ci				<del> </del>	
Ag-110m	Ci					
Sn-113	Ci	·				
Sb-124	Ci	· · · · · ·				
Sb-125	Ci					
Cs-134	Ci					
Cs-136	Ci				<del>                                     </del>	
Cs-137	Ci					
Ba-133	Ci					
Ba-140	Ci					-
Ce-141	Ci					
Ce-141	Ci					

<sup>\*</sup> The activity of this nuclide is less than the LLD.

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

_A.	FISSION & ACTIVATION PRODUCTS	<u>UNITS</u>	1 <sup>ST</sup> Quarter	2 <sup>nd</sup> Quarter	Est. Total Error, %
	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	%	*	*	
В.	TRITIUM				
	1. Total Release	Ci	3.71E+01	3.48E+01	11.4%
	Average Diluted Conc. During Release     Percent of Technical Specification Limit	μCi/ml	2.93E-05	2.47E-05	
	3. Percent of Technical Specification Limit	%	*	*	
<u>C.</u>	DISSOLVED AND ENTRAINED GASES  1. Total Release  2. Average Diluted Conc. During Period	Ci µCi/ml	5.28E-05 4.17E-11	3.12E-05 2.21E-11	5.58%
	3. Percent of Technical Specification Limit	%	*	*	
D.	GROSS ALPHA ACTIVITY  1. Total Release	Ci	1.85E-01	<lld< td=""><td>15.1%</td></lld<>	15.1%
E.	VOLUME OF WASTE RELEASED (prior to dilution)	Liters	6.36E+06	7.20E+06	5.000/
	(prior to dilution)	LICIS	0.30E+00	7.20ET00	5.00%
F.	VOLUME OF DILUTION WATER USED DURING PERIOD	Liters	1.26E+09	1.40E+09	5.00%

<sup>\*</sup>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

A. FISSION & ACTIVATION PRODUCTS	<u>UNITS</u>	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter	Est. Total Error, %
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	10.070
3. Percent of Technical Specification Limit	%	*	*	1
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	%	*	*	
C. DISSOLVED AND ENTRAINED GASES  1. Total Release  2. Average Diluted Conc. During Period	Ci μCi/ml	2.98E-05 2.37E-11	9.64E-05 1.47E-10	5.58%
3. Percent of Technical Specification Limit	%	*	*	
D. 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%
(prior to dilution)	Dicors	5.7215.00	7.371.00	3.0070
F. VOLUME OF DILUTION WATER USED DURING PERIOD	Liters	1.25E+09	6.49E+08	5.00%

<sup>\*</sup>The information is contained in the Radiological Impact on Man section of the report.

January Through June 2000

RADWASTE LIQUID EFFLUENTS

1. Number of Batch Releases:

5.10E+01

2. Total Time for Batch Releases:

1.76E+04 minutes

3. Maximum Time Period for a Batch Release:

4.77E+02 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

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

		BATCH MODE		CONTINUO	OUS MODE
	Unit	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	1 <sup>st</sup> QTR	2 <sup>nd</sup> OTR
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)			<u> </u>		
Total	Ci	7.44E-03	1.45E-02	None	None
H-3	Ci	3.71E+01	3.47E+01		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	*	*		

<sup>\*</sup> The activity of this nuclide is less than the LLD.

RADWASTE LIQUID EFFLUENTS

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

1. Number of Batch Releases:

3.70E+01

2. Total Time for Batch Releases:

1.25E+04 minutes

3. Maximum Time Period for a Batch Release:

4.08E+02 minutes

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	CONTINUO	OUS MODE
	Unit	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> 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		<del></del>
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	*	*	*** 1	
Xe-135	Ci	*	1.58E-05		
Xe-138	Ci	*	*		

<sup>\*</sup> The activity of this nuclide is less than the LLD.

January Through June 2000

#### **CCSW LIQUID EFFLUENTS**

DOCKET NUMBERS: 50-237/50-249

1. Number of Batch Releases:

6.00E+00

2. Total Time for Batch Releases:

7.74E+00minutes

3. Maximum Time Period for a Batch Release:

1.24E+00 minutes

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	H MODE	CONTINUO	OUS MODE
	Unit	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	1 <sup>st</sup> QTR	2 <sup>nd</sup> 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)			<u></u>		
Total	Ci	*	3.07E-06	None	None
H-3	Ci	*	*		1,0110
Kr-87	Ci	*	*		
Kr-88	Ci	*	*		
Xe-133	Ci	*	*		
Xe-133m	Ci	*	*		
Xe-135	Ci	*	*		
Xe-138	Ci	*	*		

<sup>\*</sup> The activity of this nuclide is less than the LLD.

July Through December 2000

CCSW LIQUID EFFLUENTS

1. Number of Batch Releases:

4.80E+01

2. Total Time for Batch Releases:

5.95E+01minutes

3. Maximum Time Period for a Batch Release:

1.24E+00 minutes

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

DOCKET NUMBERS: 50-237/50-249

		BATC	CH MODE	CONTINUO	OUS MODE
	Unit	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR
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	*	*	<b>†</b>	<del>- ·</del>
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)			<u> </u>		
Total	Ci	9.84E-04	1.94E-06	None	None
H-3	Ci	*	*	1.010	TOIL
Kr-87	Ci	*	*		
Kr-88	Ci	*	*	<del>                                     </del>	
Xe-133	Ci	*	*		
Xe-133m	Ci	*	*		
Xe-135	Ci	*	*		
Xe-138	Ci	*	*	-	

<sup>\*</sup> The activity of this nuclide is less than the LLD.

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	pe of Waste	Unit	12-month period	Est. Total Error, %	
a.	Spent resins, filter sludges, evaporator bottoms, etc.	m <sup>3</sup>	1.60E+02	1.250/	
		Ci	1.02E+03	± 25%	
b.	Dry compressible waste, contaminated equipment, etc.	m <sup>3</sup>	1.56E+03	. 250/	
		Ci	1.59E+01	± 25%	
c.	Irradiated components, control rods, etc.	m <sup>3</sup>	4.40E-01	1.250/	
		Ci	2.79E+02	± 25%	
d.	Other (describe) - Contaminated Soil	m <sup>3</sup>	4.78E+02	1 259/	
		Ci	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>
Fe-55	73.2%	7.48E+02
Co-60	17.3%	1.77E+02
Mn-54	6.11%	6.24E+01
Cs-137	1.83%	1.87E+01
Ni-63	0.84%	8.60E+00

b. Dry compressible waste, contaminated equipment, etc.

	Percent %	<u>Curies</u>
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	<b>DESTINATION</b>
10 8 49	Motor Freight (exclusive use only) Motor Freight (exclusive use only) Motor Freight (exclusive use only)	CNS, Barnwell, SC AERC, Oak Ridge, TN GTS Duratek, Oak Ridge, TN
17 11	Motor Freight (exclusive use only) Motor Freight (exclusive use only)	GTS Duratek, Gak Ridge, TN GTS Duratek, Kingston, TN ATG, Oak Ridge, TN
6 16	Motor Freight (exclusive use only) Motor Freight (exclusive use only)	ATG, Richland, WA Studsvik, Erwin, TN

B. IRRADIATED FUEL SHIPMENTS (Disposition)

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	<b>DESTINATION</b>
None		

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

#### ABNORMAL RELEASES\*

A.	LIQUID			
	1.	Number of Releases:	5	
	2.	Total Activity Releases:	5.69E+00 Ci	
B.	GASEOUS	}		
	1.	Number of Releases:	4	
	2.	Total Activity Releases:	2.67E-04 Ci	
A.1	4.02E+ dischar	03 pCi/l from the 1° quarter ge flow of 10 gallons per mir	was used for all of 2000. The total act	ewers. The highest storm drain concentration, wity released is based on an estimated typical may have been released into the environment.
A.2	Based c	on visual inspections of the le	scovered on the 2/3-2342-500 valve (Cak, a total volume of 10 gallons is esting may have been released to the environment	ondensate Storage Tank HPCI Return Line). nated to have leaked from the packing. It is ment.
A.3	onsite for gross al	or gamma-emitting radionucl pha and/or Fe-55 activity abo	ides. Results from samples taken in Jan	55, Sr-89/90 and gross alpha and are analyzed nuary, July, September and December show i of Fe-55 and 1.85E-01 Ci of gross alpha
A.4	the area	surrounding the tank. The v	() gallon of water from the 1A Condens water was discovered coming from a pur its was used to establish the radionuclid	ate Return Storage Tank (CST) was spilled in mp being used to process the contents of the e concentration of the spilled liquid:
		Co-60	2.81E-07 μCi/cc	
		Cs-137	8.24E-07 μCi/cc	
	Based u	pon this analysis it is estimat	ed that a total of 4.18E-09 Ci was disch	arged to the environment.
A.5.	Units 2/	3 Cribhouse. Isotopic analys	ly 150 gallons of water from the Heating is of leaked water confirmed the present a total of 7.96E-08 Ci was discharged	g Steam system leaked from the piping in the ce of Co-60 at 1.401E-07 μCi/cc. Based to the environment.

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

January Through December 2000

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

<sup>\*</sup> 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

		Percentage of	of Quarterly C	bjective		Yearly Obj.	Percentage of
	Quarterly Obj.	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> 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	of Quarterly C	bjective		Yearly Obj.	Percentage of
	Quarterly Obj.	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> 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

<sup>\*</sup> 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	of Quarterly C	bjective		Yearly Obj.	Percentage of
	Quarterly Obj.	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	1 ' '	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	of Quarterly C	bjective		Yearly Obj.	Percentage of
· · · · · · · · · · · · · · · · · · ·	Quarterly Obj.	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	1	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

		Percentage of	of Quarterly C	bjective		Yearly Obj.	Percentage of
	Quarterly Obj.	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	]	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	of Quarterly C	bjective	· · · · · · · · · · · · · · · · · · ·	Yearly Obj.	Percentage of
	Quarterly Obj.	1 <sup>st</sup> QTR	2 <sup>nd</sup> QTR	3 <sup>rd</sup> QTR	4 <sup>th</sup> QTR	]	Yearly Obi.
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

<sup>\*</sup> 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].

January-March 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

### NUMBER OF OBSERVATIONS = 2174 VALUES ARE PERCENT OCCURRENCE

SPEED							- WIND	) DIDE	אמזדי	CLASSES										CTAD	11 TTV 4	CLASSES		
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NATA	TOTAL	E11	MII					
CLASS	14	NNE	ME	ENC	L	ESE	JĽ	33E	3	33W	SW	WCW	W	WMW	INN	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES
Eυ	.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			1.43	1.06	.74	2.39		1.56		19.04					19.04		
2 MS	.00	.09	.05	.09	.23	.23	.00	.00		.18	. 18	.05	.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	1.15	.46	.74	7.50				7.50			
1 SS	.00	.18	. 18	.00	.00	. 05	.09	1.01		.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

#### COMED DRESDEN STATION 35 ft. WIND SPEED and WIND DIRECTION

#### January-March 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

SPEED				. <b></b> .			- WIND	DIREC	CTION C	LASSES	· · · · ·	· • • • • •								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	.05	.00	.00	.05	.05						
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.09		.09					
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.09			.09				
· N	.00	.00	.00	.00	.00	.00	.00	.28	.51	.14	.09	.05	.37	.05	.00	.00	1.47				1.47			
2 SS	.00	.00	.00	.00	.00	.00	.00	.46	.32	. 14	.00	.05	.05	.00	.00	.00	1.01					1.01		
4 MS	.00	.00	.00	.00	.00	.00	.00	.05	.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
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
тот	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	12.10	4.42
Wind	Direc	tion b	y Stab	ility																				
	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-ST	ABILIT	Y CLA	SSES -			
	.37	.51	.46	.09	.05	. 18	.09	.00	.00	.05	. 14	. 14	.51	1.24	.64	.60	5.06	Ext	remely	Unst	able			
	.09	.23	.00	.05	.05	.00	. 14	.00	.05	.05	.18	.46	. 14	.28	.09	.32	2.12	Mod	eratel	y Unst	table			
	. 14	. 14	.09	.05	.09	. 18	.05	.00	.23	.23	.37	.23	.23	.18	.09	.28	2.58	Sli	ghtly	Unstal	ole			
	.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	Neu	tral					
	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	Sli	ghtly	Stable	•			

N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	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	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	. 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

### ComEd DRESDEN STATION 35 ft. WIND SPEED and WIND DIRECTION

April-June 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

#### NUMBER OF OBSERVATIONS ≈ 2181 VALUES ARE PERCENT OCCURRENCE

SPEED CLASS	N	NNE	NE	ENE	E	ESE	SE.	SSE	) NOT (	LASSES SSW	, SW	WSW	₩	WNW	NW	NNW	TOTAL	FII	MII.		ILITY (			E
LA33	N	NNE	NE	ENE	Ľ	ESE	SE	33E	5	22M	SW	WSW	W	MNM	NW	NNW	IOIAL	EU	MU	SU	N	SS	MS	į
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				
A N	.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		
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							
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					
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			
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
EU	.18	.41	.60	.09	.00	. 05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46	1.79	1.79						
MU	.05	.28	. 14	. 14	. 14	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.09	.92		.92					
SU	.00	.05	.00	.05	.09	.09	.00	.00	.00	.00	.05	.00	.09	.09	.05	.28	.83			.83				
N	.37	.60	.64	.73	1.01	.55	.55	.41	1.01	.78	.64	1.05	1.05	.55	.41	.78	11.14				11.14			
SS	.92	.60	2.06	1.60	1.65	1.05	.60	1.83	1.83	1.28	.37	. 64	1.05	1.01	1.05	.83	18.39					18.39		
MS	. 14	. 14	.37	.00	.32	.60	.50	.41	.50	.78	.78	. 14	.46	.37	. 18	.18	5.87						5.87	
ES	.05	.00	.05	.00	.05	.18	.05	.05	.00	.14	.50	.00	.00	.05	.05	.09	1.24							1
EU	.00	.37	.50	.18	.00	.00	.00	.00	.00	.09	.14	.23	.09	.55	.09	.28		2.52						
MU	. 05	. 05	.00	.05	.00	.00	.05	. 05	.00	.00	. 14	.05	.09	.05	. 05	.00	.60		.60					
SU	.00	.05	.05	.09	.05	.00	.09	.09	.00	.00	.00	. 14	.09	.23	.05	. 14	1.05			1.05	10.00			
N	.28	.83	.64	.55	.55	.28	.46	.83	.73	1.24	1.28	.69	.55	.50	.50	.41	10.32				10.32	14.00		
SS	.69 .00	.55	.73 .05	.50 .05	.32	.96 .09	.41			2.11		.50	.46	.64	. 78	.18	14.26					14.26	1 20	
MS Es	.00	.00	.00	.00	.00	.00	.00	.00	. 14	.50 .05	.32	.05	.05	.00	. 05 . 00	.00	1.28 .05						1.28	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.05							
Eυ	.00	.00	.32	.05	.00	.00	.00	.05	.05	. 14	.18	.09	. 18	.41	.37	.18		2.02						
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.09	. 18	.05	.05	. 14	.09	.69		.69					
SU	.09	.00	.00	.00	.00	.00	.00	.09	.05	.23	.09	.09	.14	.09	.05	.00	.92			.92	c 10			
N	.14	.09	.00	.00	.00	.00	.05	.50		1.10	.64	.28	.18	.87	.28	. 18	5.18				5.18	c c.		
SS	.28	.05	.14	.00	.05	.50	.05	.23	1.05		.55	.18	.46	.18	. 14	.60	5.50					5.50	^-	
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							

### ComEd DRESDEN STATION 35 ft. WIND SPEED and WIND DIRECTION

April-June 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

SPEEL				·		. <b></b> .	- WINE	DIREC	TION (	CLASSES										STABI	LITY C	LASSES		
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	0.5	00	00	05	05						
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00 .05	.00	.00	.05	.00	.00	.05	. 05	۸۲					
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05		.05	0.5				
- N	.00	.00	.00	.00	.00	.00	.00	.05	.18	.18	.05	.00	.00	.00	.00	.00	.05 .50			. 05				
2 SS	.00	.00	.00	.00	.00	.00	.05	.00	.05	.09	.05	.00	.00	.00	.00	.00	.32				.50	.32		
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.32	.00	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00	.00
						100		, 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	.09	.05	.00	.00	.00	.00	.00	.00	.00	.14				. 14			
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	.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 2	29.53	43.28	11.83	3.81
Wind	Direc	tion b	y Stab	ility																				

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

corro																								
SPEED					-					CLASSES								••	• • • • • •		ILITY (	CLASSES	5	
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	\$	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	.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	1.09	.68	.32	.32	.27	.27	.27	.41	.23	.36	.41	.41	.32	.27	.50	.95	7.07				2.00	7.07		
MS	.68	.32	.23	.23	. 27	.27	. 14	.45	.32	.36	.41	. 14	.41	.59	.95	1.18	6.93					,,	6.93	
ES	. 14	.00	.00	. 05	.00	. 09	.23	.09	.05	.41	.32	.09	.05	.27	1.09	.41	3.26						0.33	3.26
									,,,,						2.05		0.20							3.20
EU	.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		1.,_	2.26				
. N	.82	.77	.95	.82	.91	.18	.41	.54	.91	.50	.23	.54	.41	.91	.86	.86	10.60			£.20	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				10.00	23.87		
MS	.27	.05	.00	.00	.18	.68	.50	.63	.27	.86	.63	.05	.18	.23	.50	.41						23.07	C 42	
ES	.00	.00	.05	.00	.00	.14	.05	.00	.09	.14	.54	.09	.00	.00	.00	.00	5.43 1.09						5.43	1 00
		.00	.00		.00		.03	.00	.03	. 14	.54	.05	.00	.00	.00	.00	1.05							1.09
EU	.23	. 18	.45	.23	.23	.45	.27	.36	.27	1.00	.32	.68	.32	.09	. 14	.27	5.48	5.48						
MU	.00	.05	.05	.05	.00	.05	.05	.09	.36	.27	.09	. 18	.05	.00	.00	.00	1.27		1.27					
8 SU	.00	.05	. 14	.05	.05	.05	. 18	. 14	. 18	.23	. 14	.23	.09	.05	.05	.00	1.59			1.59				
- N	.05	.18	.59	.09	.41	.27	.63	.68	1.13	1.18	.72	.86	.54	. 14	. 18	.09	7.74			1.55	7.74			
1 SS	.00	.05	.72	.09	.77	.82		1.09	2.54	.82	.45	.23	.36	.09	. 14	.00	8.88		•		7.74	8.88		
2 MS	.00	.00	.00	.00	.00	.09		. 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
										•••			.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		.23	.18				
· N	.00	.00	.00	.00	.00	.00	.14	. 14	. 14	.27	. 14	.00	.00	.00	.00	.05	.86			.10	.86			
1 SS	.00	.00	.00	.00	.00	.09	.23	.05	.05	.18	.00	.00	.00	.00	.00	.00	.59				.00	. 59		
8 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00										. 39	00	
ES	.00	.00	.00										.00	.00	.00	.00	.00						.00	00
ĘJ	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00

### ComEd DRESDEN STATION 35 ft. WIND SPEED and WIND DIRECTION

#### July-September 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

										-011011					150 0.	J 10.	DITTENE	MILAL	TEM EIV	TOKE				
SPEEL	)				<b></b> .		WTN!	DIRFO	TION (	CLASSES										CTA	BILITY	CI ACCI	-c	
CLASS		NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EII	Lati					
CLAS.	, ,,	MAL	nL.	LIIL		LJL	JL	JJL	3	SSM	ЭМ	WSW	w	MIIM	NW	NNW	TOTAL	EU	MU	SI	U N	SS	s Ms	ES
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
1 MU	.00	.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	.00	.00	.00	.00	.00	.00	.00	.00			.00	0			
- N	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05				. 05	;		
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
EŲ	.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	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00			
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
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	2 21.11	40.40	13.13	4.35
Wind	Direc	tion t	y Stab	ility																				
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	TOTAL	-ST	ABILIT	Y CLA	SSES.			
	1.09	1.09	1.59	.77	.72	.68	.59	.72	.63	1.31	.45	1.00	.72	.27	.59	1.31	13.54	Ext	remely	Unst	able			
	.09	.09	.32	.18	. 14	.09	.09	. 14	.59	.45	.18	.18	.18	.05	.41	. 18	3.35		erate1					
	23	27	32	23	18	18	18	32	41	45	23	36	1.4	ΛQ	27	27	1 12		ah+1v	•				

N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNM	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	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
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

### NUMBER OF OBSERVATIONS = 2208 VALUES ARE PERCENT OCCURRENCE

AL 100					_		WIN		CTION												LITY (	JU WOL	· · · · ·	
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	, E
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				
A N	.09	.09	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00	.00	.05	.00	.23				.23			
L SS	.00	.00	.05	.00	.09	.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				
N CC	.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					5.98		
MS ES	.23 .05	.05	.18	.14	.18	. 14	.23	.54	.63	.36	.54	.05	.32	.32	.41	.45	4.76						4.76	
ES	.05	.00	.05	. 05	.00	.09	.14	.14	.23	.45	.59	.32	.23	. 54	.27	.05	3.17							3.
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 MS	.86 .05	.86 .00	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		
ES	.00	.00	.05 .00	.00	.14	.50 .00	.18	.18	.82 .09	.23	1.45 .27	.41	.54	.59	.05	.18	6.16						6.16	
	.00	.00	.00	.00	.00	.00	.00	.03	.03	.23	.21	.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						
MU	.09	.00	.09	.05	.00	.00	.00	. 14	.00	.00	.05	. 14	.09	.00	.05	.09	.77		.77					
	.00 .68	.00	.18	.00	.00	.00	.09	.05	.05	.05	.09	.18	. 18	.09	. 14	.00	1.09			1.09				
	.09	.41 .23	.95 .41	.32	.59 .50	.63 1.31	.32 1.45	.86 .68	.45	.45 .86	.72	1.04	2.76	2.36	.82	.59	13.95			]	13.95			
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.59 .00	.41 .00	.00	1.40	.63	.00	12.64					12.64		
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14 .00						. 14	
EII	00	00	00	ďΩ	00	ne.	20	14	24	05	07	22	20	^^										
	.00 .00	.00 .00	.00	.00	.00	.05	.00	.14	.00	.05	.27	.00	.09	.00	.09	.00	.68	.68	20					
	.00	.00	.00	.00	.00 .00	.00	.00	.05 .00	.00 .00	. 18 . 09	.09 .23	.05 .00	.00 .18	.00	.00	.00	.36		.36	E A				
	.00	.00	.00	.00	.00	.23	.14	.36	.36	.59	.45	.72	2.58	1.09	.00 .41	.00 .41	.54 7.34			. 54	7.34			
	.00	.05	.14	.00	.00	.18	.41	.27	.72	.18	.14	.09	.23	.14	.05	. 14	7.34 2.72				7.34	2.72		
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					۲.16	.00	
1112																	.00						.00	

### Comed DRESDEN STATION 35 ft. WIND SPEED and WIND DIRECTION

#### October-December 2000 150-35 ft. DIFFERENTIAL TEMPERATURE

						772.10	JI EED	uno mi	10 0110	LOTTON					130-3	J 16.	DIFFERE	NITAL	IEMPER	HIUKE				
SPEEL	)						WIN	) DIRE	CTION (	CLASSES	· · · · ·									. <b>ςτ</b> Δ	BILITY	CI 455	FS	
CLASS	S N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU			U N	S		ES
EU	.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					
9 SU	.00	.00	.00	.00		.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05			.0	5			
- N	.00	.00	.00	.00		.36	.00	.00	.00	.09	.00	. 18	.41	. 09	.00	. 14					1.2	7		
2 \$S	.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	
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						
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			.01	)			
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	. 05	.00	.00	.00	.00	.05				. 05	i		
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
<b>TOT</b>	0.10																							
101	3.13	2.90	4./1	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	36.87	38.04	11.05	4.08
Wind	Direc	tion b	y Stab	ility																				
	N	NNE	NE	ENE	Ε	ESE	SE	SSE	s	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	ĊТ	ADTI YY	v cı 4	cccc			
	••				-		JL	JJL	3	J34	JĦ	no#	~	nisM	ITM	MIN	IUIAL	-31	ABILIT	i CLA	MOEO-			
	. 14	.14	. 18	.05	.05	.32	. 14	.32	.23	.05	.59	.82	.54	.72	1.04	.36	5.66	Fxt	remely	linet	ahle			
	.09	.05	.27	.05	.00	.00	.00	.32	.00	.18	.14	.18	.14	.14	.14	.09	1.77		eratel					
	00	nn	19	00	05	05	no	10	00	22	41	22			14	.00	2.77							

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.14	. 14	. 18	.05	.05	.32	. 14	.32	.23	.05	.59	.82	.54	.72	1.04	.36	5.66	Extremely Unstable
.09	.05	.27	.05	.00	.00	.00	.32	.00	.18	.14	. 18	. 14	. 14	. 14	.09	1.77	Moderately Unstable
.00	.00	. 18	.00	.05	.05	.09	.18	.09	.23	.41	.23	.59	.23	. 14	.09	2.54	Slightly Unstable
1.27	1.09	1.59	1.49	2.13	1.81	.95	1.81	1.59	1.68	1.63	2.49	7.47	5.62	2.22	2.04	36.87	Neutra1
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	Slightly Stable
.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	. 05	.00	.09	. 14	.23	.32	.68	.86	.45	.23	.59	.32	.05	4.08	Extremely Stable

#### Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	\$	SSW	SW	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

January-March 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

### NUMBER OF OBSERVATIONS = 2170 VALUES ARE PERCENT OCCURRENCE

SPEED	•••	• • • • • •		• • • • • •						CLASSES			• • • • • •							· SIAD	ILITY (	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	Ε
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							.0
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
MU	. 05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05		.05					
l SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00				
- N	. 05	.05	.00	.00	.05	.09	.14	.05	.00	.05	.00	.00	. 05	.00	.00	.00	.51				.51			
3 SS	.05	.00	.05	.05	.09	.00	.05	.00	.05	.00	.05	.05	.00	. 14	.00	.00	.55					.55	~~	
MS ES	.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							•
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	1.06	.41	.37	.46	.60	.00	. 18	. 18	5.67				5.67	0.50		
7 SS MS	.09	.14 .18	.18	.46 .00	.05	.14 .09	.23 .14	.23	.05 .09	. 18 . 05	.18 .09	.23 .14	.09	. 14 . 18	.09 .18	. 05 . 14	2.53 1.52					2.53	1.52	
ES	.00	.00	.00	.00	.05	.05	.00	.09	.09	.00	.00	.00	.00	.00	.00	.00	.28						1.32	.;
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	.03	.78					
SU	. 14	. 05	.00	.05	.05	.05	.14	.05	.00	.05	.09	. 18	.05	.09	.18	.05	1.20		.,5	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			
SS	.23	.28	.28	.46	.60	.23	.41	.32	.23	.41	.32	. 14	. 18	.23	.18	. 18	4.70					4.70		
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							
£U	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	. 05	.00	. 09	.23	.23						
L MU	.05	.00	.00	.00	.00	.05	. 14	.00	.09	.00	.09	. 14	.05	. 18	.05	.05	.88		.88					
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	.41	1.11	1.20	.55	.83	1.15	1.57	.92	1.20	15.62				15.62			
SS	.46	. 14	.05	.00	.69	.60	.51	.37	1.75	2.03	.88	.41	1.80	.97	1.01	.41	12.07					12.07		
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							

#### ComEd DRESDEN STATION 300 ft. WIND SPEED and WIND DIRECTION

#### January-March 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

SPEED	)	• • • • • •	• • • • • •		· · · · · ·		- WIND	DIREC	CTION C	LASSES		· · · · · ·						• • •	• • • • • •	STAB	ILITY (	CLASSE	\$	
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	.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 SU	.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						
G MU	.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
тот	4 06	5 02	2 /1	4 20	E 2E	<i>4</i> 10	4 24	E 76	11 11	0 71	E 00	E 00	0 12	0.21	7 56	6.00	100.00	1 11	2 01	4 75	40. 22	20.42	11.66	0.00
101	4.00	3.02	3.41	4.23	3,33	4.10	4,24	5.76	11.11	0.71	3.99	5.90	9.12	9.31	7.50	0.00	100.00	1.11	2.81	4./5	49.22	28.43	11.66	2.03
Wind	Direc	tion b	y Stab	ility																				
	N	NNË	NE	ENE	E	ESE	SE	SSE	s	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	.ST.	ABILIT	Y (1 49	SSES.			
	.,				-		-	-	•	554	J.1	,,,,,,	**	******	****	111111	101/16	31	JILII		JULU .			
	. 05	.23	.05	.00	.00	.00	. 05	.00	.05	.00	.00	.00	. 14	.46	.00	.09	1.11	Ext	remely	Unsta	able			
	. 14	.09	. 18	.09	.00	. 05	. 14	.00	. 18	.05	. 14	. 14	.28	.69	.41	.23	2.81	Mode	eratel	y Unst	able			
	.46	.46	. 14	.09	. 05	.09	.23	. 05	.37	.32	.41	.65	.37	.37	.46	.23	4.75		ghtly					

N	NNË	NE	ENE	E	ESE	SE	SSE	S	SSW	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	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
. 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			• • • • •				- WIN			CLASSES			• • • • • •						• • • • •	STAB	LITY (	LASSES		
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	N₩	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	.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		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	1.18	.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

### ComEd DRESDEN STATION 300 ft. WIND SPEED and WIND DIRECTION

April-June 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

SPEE	)	. <b></b> .	<b></b> .				WTNI	) DIRF(	TION (	CLASSES						<i>.</i>				. <b>STA</b> D	:II ITV	CLASSE	·c	
CLASS		NNE	NE	ENE	Ε	ESE		SSE	S	SSW	SW	WSW	W	WNW	NM	NNW	TOTAL	EU	MU	SU		SS	-	ES
					_		-	552	•	00,,	0,,,	,,,,,,		******		14174	10171	LU	110	50	, ,,	33	ทร	ĘĴ
EU	.00	.05	.33	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.00	.09	.71	.71						
1 MU	.00	.05	.00	.00	.00	.00	.00	.00	.09	.00	.00	.28	.09	.28	.09	.09	.99		.99					
9 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	,		
2 SS	.05	. 14	. 14	.00	.05	.05	.05	.09	1.13	1.56	1.60	.61	.09	.33	.24	. 05	6.17					6.17		
4 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							.09
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
G MU	.00	.00	.05	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.05	.00	.00	. 19		.19					
T SU	.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			
2 SS	.00	.05	.00	.00	.00	.00	.09	.05	.19	.24	.09	.05	.24	. 14	.00	.05	1.18					1.18		
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	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	1.65
Wind	Direc	tion b	y Stab	ility																				
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNM	TOTAL	-ST	ABILIT	Y CLA	SSES-			
	nα	57	47	14	00	00	00	00	00	ΛE	1.4	00	00	24	0.5	22	2 17	F		. 11				

N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNN	TOTAL	-STABILITY CLASSES-
.09	.57	.47	. 14	.00	.00	.00	.00	.00	.05	. 14	.09	.00	.24	.05	.33	2.17	Extremely Unstable
. 14	.24	.57	.09	.00	.00	.05	.05	.19	.28	.09	.38	. 14	.47	. 19	.38	3.25	Moderately Unstable
.09	.42	.52	. 19	.19	.05	. 05	.42	.33	.42	.57	.47	.47	.90	.47	.42	5.98	Slightly Unstable
3.20	3.06	2.73	3.44	2.87	2.45	1.27	2.73	3.68	4.57	3.86	2.17	2.40	2.83	2.59	2.50	46.37	Neutral
.99	1.08	1.51	1.60	1.32	1.27	1.18	2.31	4.01	4.76	3.39	1.79	1.74	1.46	1.56	.52	30.49	Slightly Stable
.47	.57	.38	. 19	.28	.38	.71	.80	.71	.99	.75	.99	.57	.66	1.04	.61	10.08	Moderately Stable
.00	.09	.09	.05	.05	.05	. 14	.05	.09	.00	.19	.19	. 14	.24	.09	. 19	1.65	Extremely Stable

#### Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	W\$W	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	.05	.24	.09	. 19	. 19	.05	.09	.05	.28	.09	.05	.28	.33	.24	.09	2.40	1.0 · 3.5 mph
.90	.75	1.18	1.84	1.08	.47	.71	.85	1.13	.90	.80	.47	.94	.66	1.13	.94	14.75	3.6 - 7.5 mph
1.56	2.03	1.89	3.16	2.17	1.04	1.04	1.74	2.12	1.60	1.79	1.60	1.74	.80	1.18	1.27	26.72	7.6 - 12.5 mph
1.27	1.74	2.03	.61	1.18	1.56	1.32	2.87	3.02	4.34	2.87	2.45	1.46	2.21	2.03	1.51	32.47	12.6 - 18.5 mph
.57	1.18	.90	.00	.09	.66	.19	.66	2.21	3.53	2.97	1.32	.61	1.74	1.27	.80	18.71	18.6 - 24.5 mph
.61	. 28	. 05	.00	.00	.28	.09	.14	.47	.42	.47	. 19	.42	1.04	. 14	.33	4.95	> 24.5 mph

July-September 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

#### NUMBER OF OBSERVATIONS = 2180 VALUES ARE PERCENT OCCURRENCE

SPEED	••		• • • • • •	• • • • • •			WIN			CLASSES			• • • • • •		• • • • •	• • • • •		••	· · · · ·	- 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	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					
c su	.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			
L SS	.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	
ES	.00	.00	.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	. 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			
3 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						.46	
ES	.00	.00	.00	.05	.00	.00	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00	. 14							. 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					
4 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				5.96			
7 SS	.05	.28	.50	.92	.41	. 14	.37	. 14	. 14	.09	.23	.05	.37	.09	. 18	.09	4.04					4.04		
MS	. 14	. 14	.23	.28	. 14	. 05	.09	. 18	. 14	.09	.09	. 14	.09	. 05	.09	.00	1.93						1.93	
ES	.05	.09	.05	.00	.00	.00	.00	. 05	.00	.00	.00	.00	.05	.05	. 05	.09	.46							.46
ГП	10	22	46	0.5	- 14	10				40														
EU	.18	.23	.46	.05	. 14	. 18	.00	.00	.00	.18	.00	.09	.05	.05	.00	.23		1.83						
MU	.09	.32	.55	.14	.09	. 14	.32	.28	.18	.28	.05	.09	.28	.05	.09	.32	3.26		3.26					
8 SU - N	. 18	.28	.09	.32	.14	.32	.23	.28	.23	.14	.18	.37	.14	.09	.41	.37	3.76			3.76				
1 SS	.55 .23	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			
	. 14	1.10	1.51	.64 .05	1.19	.73	.69	.69		1.10	.78	.64	.55	. 55	.46	.28	11.93					11.93		
2 MS ES	.23	.60 .00	.23	.00	.09	.05 .00	.32	.64	.09	.37	.23	.32	.37	.09	.28	. 14							3.99	
LJ	.23	.00	.00	.00	.00	.00	.00	.00	.09	.09	.05	. 14	. 18	.00	. 18	.00	. 96							. 96
EU	.18	.00	.00	.00	.00	.00	.00	.00	.09	.14	. 14	.00	.05	.00	.00	.05	.64	.64						
1 MU	.09	. 18	.09	.00	.05	.14	.09	.05	.09	.14	. 14	.18	.05	.00	.00	.00	1.28	.04	1.28					
3 SU	.23	. 05	.05	.00	.05	.05	.05	.00	.37	.50	.05	.23	.14	.00	.09	.14	1.97		1.20	1.97				
• N	.83	.96	.92	. 14	.37	.50	.55		1.38	1.01	.78	.55	.37	.18	.46	1.10	10.83				10.83			
1 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		
8 MS	.23	.46	.00	.00	.00	.37	. 55	.46	.23	.64	.50	.41	. 14	.09	.09	.37	4.54					20.07	4.54	
ES	. 18	.00	.00	.00	.00	.00	.05	.00	.00	.09	.05	.00	.00	.00	.05	. 14	.55						7.54	. 55
																	.00							. 55

### ComEd DRESDEN STATION 300 ft. WIND SPEED and WIND DIRECTION

#### July-September 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

															000 0		DITT ETGE	111 1/16	TERR EIV	TOKE				
SPEE	)						WIN	) DIRE	CTION (	CLASSES		· · · · · · ·								STAF	RII ITV	CLASSE	<del>-</del> c	
CLASS	S N	NNE	NE	ENE	Ε	ESE		SSE	\$	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SI		SS		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	. 14	.00	.00	.00	.00	.00	.00		.41	. 23					
9 SU	.05	.05		.00		.00	.00	.00	.00	.00	. 14	.00	.00	.00	.05	.00			.23	. 28	1			
- N	.09	.32		.00		.00	.23	.05	.23	.18	.28	.05	.00	.00	.09	.05				.20	, 1.70	,		
2 SS	.00	.05		.00		.41	.05	.00		.55	.14	.05	.14	.05	.00	.28					1.70	, 3.03	1	
4 MS	.28	.00	.00	.00	.00	.05	.00	.05	.14	.32	.18	.09	.00	.00	.00	.18	1.28					3.03	, 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						
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	.05	.05	.00	.00	.00	.00	.00	.00	.05	.00	. 14				. 14			
2 SS	.00	.00	.00	.00	.00	.00	.00	.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
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	1 02	2 71	1 22	E 22	100.00	2 50	F 07	0 01	24.07	22.20	10.00	
					0.32	0.00	0.03	0.00	10.10	10.20	5.55	5.50	4.02	2.71	4.22	3.23	100.00	3.36	3,07	0.21	34.27	33.39	12.29	2.39
Wind	Direc	tion b	y Stab	ility																				
	N	AINE	ME	CMC	_	CCC.	CE	ccr	•	ccu	cu	. 101												
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-ST/	ABILIT	Y CLA	SSES-			
	.55	.46	.64	.09	. 14	.18	.00	.05	. 18	.32	. 14	.09	. 14	.09	.00	.50	3.58	Ext	remely	linst:	able			
	.23	.69	.73	.32	.28	.37	.46	.46	.32	.55	.18	.37	.37	.05	. 14	.37	5.87		erately					
	.50	.55	.37	.78	.46	.37	.37	.37	.83	.78	.37	. 73	37	18	64	55	8 21		ohtly 1					

.23 .69 .73 .32 .28 .37 .46 .46 .32 .55 .18 .37 .37 .05 .14 .37 5.87 M
.50 .55 .37 .78 .46 .37 .37 .37 .83 .78 .37 .37 .33 .37 .18 .64 .55 8.21 S
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 N
.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 S

.83 1.33 . 55 .41 .23 .50 1.01 1.33 .60 1.51 1.01 .96 .64 .23 .46 .69 12.29 .05 .00 .00 .09 . 05 .09 .28 .32 . 14 .23 .28 .23 .05 2.39

Moderately Unstable Slightly Unstable Neutral Slightly Stable Moderately Stable

Extremely Stable

#### Wind Direction by Wind Speed

NNE NE ENE ESE SE SSE NNW TOTAL WNW -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 .00 .00 .00 .00 .05 .00 .41 > 24.5 mph

### NUMBER OF OBSERVATIONS = 2023 VALUES ARE PERCENT OCCURRENCE

SPEED							WIN	D DIREC	TION	CLASSES	S									- STAB	ILITY	CLASSES	S	
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU		SS	MS	ES
EU	.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					
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	.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	.00					
1 SU	.00	.00	.05	.05	.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	. 15	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.30		.30					
4 SU	.05	. 10	. 05	.00	. 05	.00	.00	.05	.00	.00	.05	. 10	. 15	.00	. 05	.00	.64			.64				
- N	.44	. 15	.25	.74	.54	.49	.40	.79	.25	.20	.30	.30	.40	.49	.44	.44	6.62				6.62			
7 SS	. 15	. 15	.00	.40	.30	. 05	. 15	.35	.20	.20	.20	.44	.20	.30	.49	.25	3.81					3.81		
MS	.05	.20	.05	.20	. 15	. 15	.20	.30	.20	. 15	.25	. 15	.20	. 10	.25	.00	2.57						2.57	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.25							.25
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.15	.00	.00	.20	.20						
MU	.00	.00	.00	.00	.00	. 10	.00	.00	.00	.00	.00	.25	. 05	. 05	.10	. 10	.64		. 64					
8 SU	. 05	.00	.00	.00	.00	.05	. 05	.15	. 15	.00	. 05	.25	.10	.00	. 05	.05	.94			. 94				
- N	.20	.44	.89	1.19	.84	.35	.35	.84	.25	.40	.49	.84	2.13	.84	.99	.44	11.47				11.47			
1 SS	.35	. 25	.49	.40	.30	.25	.54	1.04	.40	.74	.99	1.14	. 20	.44	.69	.25	8.45					8.45		
2 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
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	. 15	.20	.00	.44	.44						
1 MU	.00	.00	.00	.00	.00	.05	. 10	.05	.00	.00	.10	.10	.20	.20	. 15	.00	.94		.94					
3 SU	.00	.00	.00	.00	.00	.10	.00	.30	.00	.20	.20	.25	.05	.40	.10	.00	1.58			1.58				
· N	.69	.54	.99	.15	.69	.54	.40	.94	.59	.89	1.29	1.33			.89	.69	16.31				16.31			
1 SS	.35	.30	.35	.00	.69	.64	1.14	.54	.79	1.43	.64	.89		1.48	.35	.54						11.72		
8 MS ES	.35	.05 იი	.00	.00	.00	.20	.44	.05	.40	.54	.40	.20	. 15	.40	.25	.44	3.86						3.86	
ES	. 10	.00	.00	.00	.00	.00	.00	.00	. 05	.25	.10	.00	.54	.10	.20	.00	1.33							1.33

### ComEd DRESDEN STATION 300 ft. WIND SPEED and WIND DIRECTION

#### October-December 2000 300-35 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	N	NNE	NE	ENE	Е	ESE	SE	SSE	,110N ( S	CLASSES SSW	; SW	WSW	11	1264	N	AIAP 1	TOTAL				ILITY C			
LLASS	N	NNE	NE	CNC	Ē	ESE	3E	SSE	3	22#	SW	WSW	W	WNW	N₩	NNW	TOTAL	EU	MU	SU	N	SS	MS	1
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
L 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	.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 N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05			.05				
SS	.00	.05 .05	.05	.00	.00	.64 .05	.00	.00	.20	.10	.05	.30	1.38	.44	.00	.30	3.51				3.51			
MS	.00	.00	.00	.00	.00	.00	.00	.25 .00	.20 .00	.10	.00	.00	.00	.00	.00	.00	.64					.64		
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							•
гот	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.
wind	Direc	tion b	y Stab	ility																				
	N	NNE	NE	ENE	E	ESE	SE	SSE	s	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-ST.	ABILI7	Y CLAS	SSES-			
	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	. 15	.30	.20	.00	.74	Ext	remely	Unsta	able			
	. 15	.00	.00	.05	.00	. 15	. 10	.10	.00	.05	.25	.40	.30	.25	.30	. 25	2.32	Mod	eratel	y Unst	able			
	.10	.10	. 10	.05	. 05	. 15	.05	.49	. 15	.30	.35	.64	.35	.40	.25	. 15	3.66	S7i	ghtly	Unstab	ole			
	1.73	1.53	2.37	2.17	2.17		1.58		2.08	2.08	2.72	3.81	9.89	5.29	3.51	2.62	48.79	Neu	tral					
	.99	.89	.89	.79	1.48	1.43	2.52	2.22	2.67	3.21	2.17	2.52	2.42	2.67	1.53	1.43	29.86	Sli	ghtly	Stable	•			
	.54	.40	. 15	.30	.30	.40	.84	.84	.84	1.33	1.04	1.14	1.33	1.09	.69	.59	11.81	Mod	eratel	y Stab	ole .			
	. 15	. 15	.05	.00	.00	.00	.00	.00	.05	.44	.20	.30	.79	.44	.20	.05	2.82	Fxt	comal v	Stabl	۵			

#### 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
.05	.25	.25	. 15	.10	. 15	. 15	. 05	. 10	. 15	.30	.20	.20	.25	.10	. 10	2.52	1.0 · 3.5 mph
.84	.59	.40	1.43	1.04	.69	.74	1.48	.64	.54	.79	1.29	.94	.89	1.24	. 74	14.29	3.6 - 7.5 mph
.74	.99	1.53	1.68	1.24	. 74	1.14	2.47	.79	1.48	1.78	3.21	3.46	2.03	2.03	.99	26.30	7.6 - 12.5 mph
1.48	.89	1.33	. 15	1.38	1.53	2.08	1.88	1.83	3.31	2.72	2.77	5.88	5.14	2.13	1.68	36.18	12.6 - 18.5 mph
. 54	.25	.05	.00	.25	.64	.99	.44	2.03	1.68	1.09	1.04	3.36	1.68	1.19	1.29	16.51	18.6 - 24.5 mph
.00	.10	.05	.00	.00	.69	.00	.25	.40	.25	.05	.30	1.38	.44	.00	.30	4.20	> 24.5 mph