

EFFLUENT AND WASTE DISPOSAL

SEMIANNUAL REPORT

DAVIS-BESSE NUCLEAR POWER STATION

UNIT 1

For the Period From

January 1, 1983 - June 30, 1983

Docket No. 50-346
License No. NPF-3

TOLEDO EDISON COMPANY
300 MADISON AVENUE
TOLEDO, OHIO 43652

August, 1983

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PDR ADOCK 05000346
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SEMIANNUAL REPORT

DAVIS-BESSE NUCLEAR POWER PLANT

UNIT 1

January 1, 1983 - June 30, 1983

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Facility: Davis-Besse Nuclear Power Station, Unit 1
 Licensee: The Toledo Edison Company
 Reporting Period: January 1, 1983 to June 30, 1983

Supplemental Information:

1. Regulatory Limits

Liquid and Gaseous Radioactive Effluent Limits

	LIQUID	GAS		
		NOBLE GAS	IODINES & PARTICULATES*	I-131
ANNUAL DESIGN OBJECTIVES	5 mrem/site 5 curies/reactor**	10 mrad γ /site 20 mrad β /site	15 mrem/site	1 curie per reactor
CURIE LIMIT PER REACTOR	10/quarter** 20/12 consecutive months			2/quarter 4/12 consecutive mos.
CURIE LIMIT/TANK	10**	45000		
UNPLANNED OR UNCONTROLLED RELEASE REPORT-CURIES	0.5	5	0.02 (radio-nuclides)	
DOSE LIMIT*** PER SITE		500 mrem/yr. total body 3000 mrem/yr. skin 20 mrad γ /qtr. 40 mrad β /qtr. 40 mrad γ /12 cons. mos. 80 mrad β /12 cons. mos.	1500 mrem/yr. thyroid 30 mrem/qtr. 60 mrem/12 cons. mos.	
MICROCURIES PER MILLILITER LIMIT	10 CFR 20, App. B, Table II, Column 2			
ACTION LEVEL	2.5 curies/qtr.** per reactor	5 mrad γ /qtr. 10 mrad β /qtr. per site	7.5 mrem/qtr. per site	0.5 curies/qtr. per reactor

* With half-lives greater than 8 days. ** Not including tritium & dissolved gases.

*** 500 mrem/yr., 1500 mrem/yr., and 3000 mrem/yr. limits are for instantaneous releases.

2. Maximum Permissible Concentrations - Limits used are specified in 10CFR20, Appendix B, Table II, Column 1 and 2.

3. Average Energy - Not applicable.

a. Fission and Activation Gases

1. These gases, excluding tritium, are collected in a Marinelli type beaker, specially modified for gas sampling, steel bombs, or glass vials and counted on a Ge(Li) detector for principal gamma emitters.
 2. Tritium gas is collected using a bubble apparatus and counted by liquid scintillations.
- b. Iodines - are collected on a charcoal cartridge filter, and counted on a Ge(Li) detector.
- c. Particulates - are collected on filter paper and counted on a Ge(Li) detector.
- d. Liquid Effluents - are collected in bottles and counted on a Ge(Li) detector.

5. Batch Releases

a. Liquid

- | | |
|---|------------------|
| 1. Number of batch releases: | 52 |
| 2. Total time period for batch release: | 1.33E+02 Hours |
| 3. Maximum time period for a batch release: | 6.28E+02 Minutes |
| 4. Average time period for batch releases: | 1.53E+02 Minutes |
| 5. Minimum time period for a batch release: | 4.80E+01 Minutes |

b. Gaseous

- | | |
|---|------------------|
| 1. Number of batch releases: | 18 |
| 2. Number of containment purges: | 0 |
| 3. Number of waste gas decay tank releases: | 18 |
| 4. Total time period for batch releases: | 4.67E+01 Hours |
| 5. Maximum time period for batch releases: | 4.47E+02 Minutes |
| 6. Average time period for batch releases: | 1.56E+02 Minutes |
| 7. Minimum time period for a batch release: | 1.00E+00 Minutes |

6. Abnormal Releases

None

7. Offsite Doses from Release at the Site Boundary

Type of Activity	Limits from Env. Tech. Specs.	Percent of Limit
a. Quarterly: Gaseous First quarter, 1983		
Noble gases (gamma)	20 mRad/atr.	5.14E-02
Noble gases (beta)	40 mRad/atr.	5.95E-01
Airborne radioiodines and particulates	30 mRem/atr.	0.00E-01
Iodine-131	2 Ci/atr.	1.47E-01
b. Quarterly: Gaseous Second quarter, 1983		
Noble gases (gamma)	20 mRad/atr.	1.37E-02
Noble gases (beta)	40 mRad/atr.	2.88E-01
Airborne radioiodines and particulates	30 mRem/atr.	0.00E-01
Iodine-131	2 Ci/atr.	4.96E-02
c. 12 Consecutive Months: Gaseous		
Noble gases (gamma)	40 mRad/12 mo.	2.84E-02
Noble gases (beta)	80 mRad/12 mo.	4.51E-01
Airborne radioiodines and particulates	60 mRem/12 mo.	0.00E-01
Iodine-131	4 Ci/12 mo.	9.83E-02
d. Quarterly: Liquid First quarter, 1983		
Liquid (excluding tritium and dissolved gases)	10 Ci/atr.	3.95E-02
e. Quarterly: Liquid Second quarter, 1983		
Liquid (excluding tritium and dissolved gases)	10 Ci/atr.	5.70E-02
f. 12 Consecutive Months:		
Liquid (excluding tritium and dissolved gases)	20 Ci/12 mo.	4.82E-02

8. Dose Assessment

The following is a list of the sources of input data:

- a. 0-50 mile meat, milk, and vegetable production, water usage information; location of the nearest individuals and pathways by sector out to 5 miles - source:
Appendix I analysis, NRC Docket 50-346, Evaluation of Compliance with Appendix I to 10 CFR 50, June 4, 1976, Davis-Besse Nuclear Power Station Unit No. 1.
- b. 1980 population within 50 miles of the plant site - source:
Davis-Besse Units 2 and 3 PSAR, Figure 2.1-6.
- c. Gaseous and liquid source terms - sources: Tables 1A, 1C, 2A, and 2B.

Tables 1 and 3 present the maximum doses computed from the noble gas effluents for each quarter. Tables 2 and 4 present doses resulting from gaseous iodine and particulate effluents. Doses resulting from liquid releases are presented in Tables 5 and 6.

TABLE 1A

Page 5

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1983)
 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	1ST QUARTER	2ND QUARTER	EST. TOTAL ERROR, %
A. FISSION & ACTIVATION GASES				
1. TOTAL RELEASE	CI	3.66E+02	1.91E+02	2.00E+01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	4.71E+01	2.43E+01	
*3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	5.95E-01	2.87E-01	
B. IODINES				
1. IODINE - 131	CI	2.94E-03	9.92E-04	2.00E+01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	3.79E-04	1.26E-04	
**3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.47E-01	4.96E-02	
C. PARTICULATES				
1. PARTICULATES WITH HALF-LIVES > 8 DAYS	CI	0.00E-01	0.00E-01	2.00E+01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	0.00E-01	0.00E-01	
***3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	0.00E-01	0.00E-01	
4. GROSS ALPHA RADIO- ACTIVITY	CI	1.38E-04	1.02E-04	
D. TRITIUM				
1. TOTAL RELEASE	CI	2.46E+00	1.76E+00	2.00E+01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	3.16E-01	2.24E-01	
****3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	6.58E-04	4.67E-04	

* BASED ON ENVIRONMENTAL TECHNICAL SPECIFICATION (ETS) 2.4.3.B(1) FOR QUARTERLY BETA FRACTION DOSE FROM NOBLE GASES.

** BASED ON ETS 2.4.3.B(5) FOR THE QUARTERLY DOSE FROM I-131; 2 CI PER CALENDAR QUARTER.

*** BASED ON ETS 2.4.3.B(3) FOR THE QUARTERLY DOSE FROM ALL RADIOIODINES AND RADIOACTIVE MATERIALS IN PARTICULATE FORM WITH HALF-LIVES GREATER THAN EIGHT DAYS.

**** BASED ON 10CFR20, APPENDIX B, TABLE II, COLUMN 1 USING 2 E-7 UCI/CC FOR HYDROGEN-3 AND ANNUAL AVERAGE X/Q OF 4.17 E-6 SEC/CU.M FROM THE PSAR

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1983)

GASEOUS EFFLUENTS- ELEVATED RELEASE *

Nuclides Released	Unit	Quar- ter	Quar- ter	Quar- ter	Quar- ter
-------------------	------	--------------	--------------	--------------	--------------

1. Fission gases

krypton-85	Ci	. E	. E	. E	. E
krypton-85m	Ci	. E	. E	. E	. E
krypton-87	Ci	. E	. E	. E	. E
krypton-88	Ci	. E	. E	. E	. E
xenon-133	Ci	. E	. E	. E	. E
xenon-135	Ci	. E	. E	. E	. E
xenon-135m	Ci	. E	. E	. E	. E
xenon-138	Ci	. E	. E	. E	. E
Others (specify)	Ci	. E	. E	. E	. E
	Ci	. E	. E	. E	. E
	Ci	. E	. E	. E	. E
unidentified	Ci	. E	. E	. E	. E
Total for period	Ci	. E	. E	. E	. E

2. Iodines

iodine-131	Ci	. E	. E	. E	. E
iodine-133	Ci	. E	. E	. E	. E
iodine-135	Ci	. E	. E	. E	. E
Total for period	Ci	. E	. E	. E	. E

3. Particulates

strontium-89	Ci	. E	. E	. E	. E
strontium-90	Ci	. E	. E	. E	. E
cesium-134	Ci	. E	. E	. E	. E
cesium-137	Ci	. E	. E	. E	. E
barium-lanthanum-140	Ci	. E	. E	. E	. E
Others (specify)	Ci	. E	. E	. E	. E
	Ci	. E	. E	. E	. E
	Ci	. E	. E	. E	. E
unidentified	Ci	. E	. E	. E	. E

* Not applicable; all releases are classified as mixed mode releases.

TABLE 1C
 EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1983)
 GASEOUS EFFLUENTS MIXED MODE RELEASES

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		1ST QUARTER	2ND QUARTER	1ST QUARTER	2ND QUARTER
1. FISSION GASES					
KR85M	CI	6.05E-01	0.00E-01	0.00E-01	0.00E-01
KR-85	CI	0.00E-01	0.00E-01	3.07E+00	6.27E+00
KR-88	CI	1.77E+00	4.97E-01	0.00E-01	0.00E-01
XE131M	CI	0.00E-01	0.00E-01	2.17E+00	9.21E-01
XE133M	CI	0.00E-01	0.00E-01	3.43E-02	1.93E-01
XE-133	CI	2.84E+02	6.07E+01	4.82E+01	1.21E+02
XE-135	CI	2.62E+01	1.49E+00	2.02E-03	5.08E-03
TOTAL FOR PERIOD	CI	3.13E+02	6.27E+01	5.35E+01	1.28E+02
2. IODINES					
I-131	CI	2.94E-03	9.92E-04	1.72E-06	0.00E-01
I-133	CI	1.37E-03	4.35E-05	0.00E-01	0.00E-01
TOTAL FOR PERIOD	CI	4.31E-03	1.04E-03	1.72E-06	0.00E-01
3. PARTICULATES					
H-3	CI	2.42E+00	1.67E+00	3.75E-02	9.14E-02
TOTAL FOR PERIOD	CI	2.42E+00	1.67E+00	3.75E-02	9.14E-02

 | TABLE 2A |
 | EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1983) |
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	1ST QUARTER	2ND QUARTER	EST. TOTAL ERROR, %
A. FISSION & ACTIVATION PRODUCTS				
1. TOTAL RELEASE (WITHOUT TRITIUM, GASES, ALPHA)	CI	3.95E-03	5.70E-03	2.00E+01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	2.32E-08	2.58E-08	
3. PERCENT OF TECHNICAL SPEC. LIMIT, 10 CI	%	3.95E-02	5.70E-02	
*4. PERCENT OF 10 CFR 20 LIMIT	%	6.19E+00	6.39E+00	
B. TRITIUM				
1. TOTAL RELEASE	CI	2.61E+01	1.89E+01	2.00E+01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	1.53E-04	8.57E-05	
*3. PERCENT OF 10 CFR 20 LIMIT	%	5.09E+00	2.86E+00	
C. DISSOLVED & ENTRAINED GASES				
1. TOTAL RELEASE	CI	6.74E-03	3.11E-02	2.00E+01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	3.96E-08	1.41E-07	
*3. PERCENT OF 4 E-5 UCI/CC LIMIT	%	9.89E-02	3.52E-01	
D. GROSS ALPHA RADIOACTIVITY				
1. TOTAL RELEASE	CI	0.00E-01	0.00E-01	2.00E+01
E. VOLUME OF WASTE RELEASED				
(PRIOR TO DILUTION)	LITERS	6.60E+05	8.71E+05	2.00E+01
F. VOLUME OF DILUTION WATER				
1. DURING THE TIME OF RELEASES	LITERS	1.70E+08	2.21E+08	2.00E+01

* BASED ON DILUTION DURING THE TIME OF RELEASES ONLY.

 | TABLE 2B |
 | EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1983) |
LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE*		BATCH MODE	
		1ST QUARTER	2ND QUARTER	1ST QUARTER	2ND QUARTER
CO-58	CI			3.55E-04	1.07E-04
CO-60	CI			1.14E-04	2.08E-04
TC99M	CI			1.22E-05	8.04E-05
AG110M	CI			1.06E-04	8.01E-05
I-131	CI			3.13E-03	4.13E-03
I-133	CI			1.36E-04	3.53E-04
CS-134	CI			1.03E-05	2.39E-04
CS-137	CI			8.27E-05	4.99E-04
CE-141	CI			0.00E-01	1.05E-05
TOTAL FOR PERIOD ABOVE	CI			3.95E-03	5.70E-03

* NOT APPLICABLE; ALL RADIOACTIVE LIQUID EFFLUENTS ARE RELEASED BY BATCH MODE.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (83-1)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of Waste	Unit		Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³	9.66E+00	+2.00E+01
	Ci	1.90E+00	
b. Dry compressible waste, contaminated equip., etc.	m ³	2.87E+01	+2.00E+01
	Ci	2.72E-01	
c. Irradiated components, control rods, etc.	m ³	None	NA
	Ci		
d. Other (describe)	m ³	None	NA
	Ci		

2. Estimate of major nuclide composition (by type of waste)

a.	CO - 60	%	8.51E+01
	CS - 137	%	8.41E+00
	CS - 134	%	2.80E+00
b.	CO - 58	%	5.47E+01
	AG 110M	%	1.30E+01
	CO - 60	%	1.15E+01
c.	NA	%	
		%	
		%	
d.	NA	%	
		%	
		%	

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
3	Truck	Barnwell Waste Management Facility Barnwell, South Carolina

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
0	NA	NA

TABLE 1

SEMIANNUAL MAXIMUM INDIVIDUAL DOSE TABLE (GASEOUS)

JAN. 1, 1983 THROUGH JUNE 30, 1983

DOSE DUE TO RELEASE OF NOBLE GAS

WHOLE BODY DOSE (MREM)

	CRITICAL SECTOR	CRITICAL DISTANCE	CRITICAL AGE	CRITICAL ORGAN	CRITICAL DOSE
FIRST QUARTER	NNE	870.(M)	NA	W BODY	1.05E-02
SECOND QUARTER	WSW	2650.(M)	NA	W BODY	3.37E-03
SEMIANNUAL TOTAL	NNE	870.(M)	NA	W BODY	1.21E-02

SKIN DOSES (MREM)

	CRITICAL SECTOR	CRITICAL DISTANCE	CRITICAL AGE	CRITICAL ORGAN	CRITICAL DOSE
FIRST QUARTER	NNE	870.(M)	NA	SKIN	2.50E-02
SECOND QUARTER	WSW	2650.(M)	NA	SKIN	1.05E-02
SEMIANNUAL TOTAL	NNE	870.(M)	NA	SKIN	2.87E-02

TABLE 2

SEMIANNUAL MAXIMUM INDIVIDUAL DOSE TABLE (GASEOUS)

JAN. 1, 1983 THROUGH JUNE 30, 1983

DOSE DUE TO RELEASE OF H3, C14, AND RADIOIODINES AND PARTICULATES

WHOLE BODY DOSE (MREM)

	CRITICAL SECTOR	CRITICAL DISTANCE	CRITICAL AGE	CRITICAL ORGAN	CRITICAL DOSE
FIRST QUARTER	W	980.(M)	CHILD	W BODY	1.47E-03
SECOND QUARTER	SSE	2680.(M)	CHILD	W BODY	4.90E-04
SEMIANNUAL TOTAL	W	980.(M)	CHILD	W BODY	1.91E-03

SIGNIFICANT ORGAN DOSES (MREM)

	CRITICAL SECTOR	CRITICAL DISTANCE	CRITICAL AGE	CRITICAL ORGAN	CRITICAL DOSE
FIRST QUARTER	WSW	4250.(M)	INFANT	THYROID	2.22E-01
SECOND QUARTER	SSW	5270.(M)	INFANT	THYROID	2.94E-02
SEMIANNUAL TOTAL	WSW	4250.(M)	INFANT	THYROID	2.50E-01

TABLE 3

SEMIANNUAL POPULATION DOSE TABLE (GASEOUS)

JAN. 1, 1983 THROUGH JUNE 30, 1983

DOSE DUE TO RELEASE OF NOBLE GAS

	TOTAL INTEGRATED POPULATION DOSE (MANREM)	AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)
	WHOLE BODY	WHOLE BODY
FIRST QUARTER	2.08E-02	9.36E-06
SECOND QUARTER	4.66E-03	2.10E-06
SEMIANNUAL TOTAL	2.55E-02	1.15E-05

TABLE 4

SEMIANNUAL POPULATION DOSE TABLE (GASEOUS)

JAN. 1, 1983 THROUGH JUNE 30, 1983

DOSE DUE TO RELEASE OF H3, C14, AND RADIOIODINES AND PARTICULATES

	TOTAL INTEGRATED POPULATION DOSE (MANREM)	AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)
	WHOLE BODY	WHOLE BODY
FIRST QUARTER	2.01E-03	9.02E-07
SECOND QUARTER	8.37E-04	3.76E-07
SEMIANNUAL TOTAL	2.84E-03	1.28E-06

TABLE 5

SEMIANNUAL POPULATION DOSE TABLE (LIQUID)

JAN. 1, 1983 THROUGH JUNE 30, 1983

	TOTAL INTEGRATED POPULATION DOSE (MANREM)	AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)
	WHOLE BODY	WHOLE BODY
FIRST QUARTER	4.15E-02	1.87E-05
SECOND QUARTER	2.02E-01	9.07E-05
SEMIANNUAL TOTAL	2.43E-01	1.09E-04

TABLE 6
SEMIANNUAL MAXIMUM INDIVIDUAL DOSE TABLE (LIQUID)
JAN. 1, 1983 THROUGH JUNE 30, 1983

CRITICAL RECEPTOR : 0.6 MILES NW OF DISCHARGE

	WHOLE BODY DOSES (MREM)		SIGNIFICANT ORGAN DOSES (MREM)		
	CRITICAL AGE	CRITICAL DOSE	CRITICAL AGE	CRITICAL ORGAN	CRITICAL DOSE
FIRST QUARTER	ADULT	1.90E-03	ADULT	THYROID	1.19E-02
SECOND QUARTER	ADULT	4.10E-02	TEEN	LIVER	5.85E-02
SEMIANNUAL TOTAL	ADULT	4.29E-02	TEEN	LIVER	6.10E-02

Table 7

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: A

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	1	0	0	1
ENE	0	0	0	2	0	0	2
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	1	0	0	0	1
WSW	0	0	2	0	0	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	3	3	0	0	7

PERIODS OF CALM (HOURS): 0

DAVIS - BESSE
UNIT 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: B

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	2	0	0	0	0	2
NNE	0	0	1	0	0	0	1
NE	0	0	0	1	0	0	1
ENE	0	0	1	2	0	0	3
E	0	0	1	3	0	0	4
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	7	1	0	0	8
SW	0	0	3	0	0	0	3
WSW	0	0	3	1	0	0	4
W	0	0	0	0	0	0	0
WNW	0	0	2	0	0	0	2
NW	0	0	2	5	0	0	7
NNW	1	1	1	0	0	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	3	21	13	0	0	38

PERIODS OF CALM (HOURS): 0

Table 7 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
33-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: C

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	1	1	0	0	0	2
NNE	1	4	1	3	0	0	9
NE	0	2	0	0	0	0	2
ENE	0	0	7	6	0	0	13
E	0	0	8	5	0	0	13
ESE	0	0	2	0	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	9	1	0	0	10
SW	0	0	5	1	0	0	6
WSW	0	0	3	1	0	0	4
W	0	0	2	1	0	0	3
WNW	0	0	1	2	5	0	8
NW	0	1	7	10	0	0	18
NNW	0	0	2	0	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	8	48	30	5	0	92

PERIODS OF CALM (HOURS): 0

Table 7 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: D

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	1	8	16	26	17	0	68
NNE	1	16	14	21	4	0	56
NE	1	15	36	18	2	0	72
ENE	2	11	31	74	23	1	142
E	2	26	53	58	2	0	141
ESE	1	21	31	3	0	0	56
SE	5	12	4	1	0	0	22
SSE	3	7	10	8	1	0	29
S	3	11	11	13	0	1	39
SSW	2	19	36	3	0	1	61
SW	3	13	35	13	10	1	75
WSW	0	21	62	78	16	1	178
W	1	15	33	39	12	0	100
WNW	1	2	34	37	6	0	80
NW	0	2	37	32	11	1	83
NNW	0	11	40	46	12	1	110
VARIABLE	0	0	0	0	0	0	0
TOTAL	26	210	483	470	116	7	1312

PERIODS OF CALM (HOURS): 0

Table 7 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: E

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	1	5	1	0	0	0	7
NNE	0	2	0	0	0	0	2
NE	2	2	4	0	0	0	8
ENE	2	8	8	6	0	0	24
E	2	9	14	15	0	0	40
ESE	0	17	6	0	0	0	23
SE	7	12	7	5	0	0	31
SSE	10	20	20	5	0	0	55
S	10	21	6	2	0	0	39
SSW	9	35	25	4	0	0	73
SW	4	15	23	2	3	0	47
WSW	4	16	12	3	1	0	36
W	2	12	8	0	0	0	22
WNW	8	3	10	0	0	0	21
NW	2	3	3	1	0	0	9
NNW	1	2	4	0	0	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	64	182	151	43	4	0	444

PERIODS OF CALM (HOURS): 0

Table 7 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: F

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	1	1	0	0	0	0	2
NE	0	1	1	0	0	0	2
ENE	0	1	0	2	0	0	3
E	1	4	4	2	0	0	11
ESE	2	9	6	0	0	0	17
SE	5	10	5	0	0	0	20
SSE	5	6	2	0	0	0	13
S	1	22	0	0	0	0	23
SSW	4	12	2	0	0	0	18
SW	2	6	0	1	0	0	9
WSW	4	3	0	0	0	0	7
W	1	1	2	0	0	0	4
WNW	0	2	0	0	0	0	2
NW	0	1	0	0	0	0	1
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	26	79	22	5	0	0	132

PERIODS OF CALM (HOURS): 0

Table 7 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: G

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	2	2	0	0	0	0	4
NNE	1	0	0	0	0	0	1
NE	2	0	0	0	0	0	2
ENE	0	4	1	0	0	0	5
E	1	5	8	3	0	0	17
ESE	2	14	11	1	0	0	28
SE	2	7	0	0	0	0	9
SSE	5	6	0	0	0	0	11
S	3	5	0	0	0	0	8
SSW	2	6	0	0	0	0	8
SW	3	6	0	0	0	0	9
WSW	0	2	0	0	0	0	2
W	0	0	0	0	0	0	0
WNW	2	0	0	0	0	0	2
NW	0	0	0	0	0	0	0
NNW	2	0	0	0	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	27	57	20	4	0	0	108

PERIODS OF CALM (HOURS): 0

Table 7 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: TOTAL

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	4	19	18	26	17	0	84
NNE	4	23	16	24	4	0	71
NE	5	20	41	20	2	0	88
ENE	4	24	48	92	23	1	192
E	6	44	88	86	2	0	226
ESE	5	61	56	4	0	0	126
SE	19	41	16	6	0	0	82
SSE	23	39	32	13	1	0	108
S	17	59	17	15	0	1	109
SSW	17	72	79	9	0	1	178
SW	12	40	67	17	13	1	150
WSW	8	42	82	83	17	1	233
W	4	28	45	40	12	0	129
WNW	11	7	47	39	11	0	115
NW	2	7	49	48	11	1	118
NNW	4	14	47	46	12	1	124
VARIABLE	0	0	0	0	0	0	0
TOTAL	145	540	748	568	125	7	2133

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 27

Table 8

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: A

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	3	0	3
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	1	0	0	1
WSW	0	0	2	0	0	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	2	1	3	0	7

PERIODS OF CALM (HOURS): 0

Table 8 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: B

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	1	0	0	0	0	1
NNE	0	0	1	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	1	1	2	0	4
E	0	0	0	2	2	0	4
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	5	1	0	0	6
SW	0	0	4	1	0	0	5
WSW	0	0	3	1	0	0	4
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	1	0	2	2	3	0	8
NNW	0	2	0	1	0	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	3	16	9	7	0	36

PERIODS OF CALM (HOURS): 0

Table 8 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: C

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	5	1	3	0	0	9
NE	0	1	0	0	0	0	1
ENE	0	1	5	5	5	0	16
E	0	0	4	6	1	0	11
ESE	0	0	1	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	7	2	0	0	9
SW	0	0	2	2	0	0	4
WSW	1	0	2	3	0	0	6
W	0	0	2	0	1	0	3
WNW	0	0	0	1	0	1	2
NW	0	1	5	3	7	1	17
NNW	1	0	4	0	0	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	8	33	25	14	2	84

PERIODS OF CALM (HOURS): 0

Table 8 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: D

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	1	1	20	18	21	17	78
NNE	3	12	13	18	2	0	48
NE	5	15	26	19	2	1	68
ENE	0	3	30	23	38	43	137
E	1	12	31	31	54	21	150
ESE	0	8	19	12	4	0	43
SE	2	7	6	1	2	0	18
SSE	1	6	2	5	8	0	22
S	7	3	9	13	9	2	43
SSW	1	3	20	20	4	0	48
SW	2	5	10	26	9	8	60
WSW	12	5	24	56	55	17	169
W	1	3	22	39	26	12	103
WNW	1	2	7	22	16	11	59
NW	0	1	15	41	14	8	79
NNW	1	0	13	33	40	25	112
VARIABLE	0	0	0	0	0	0	0
TOTAL	38	86	267	377	304	165	1237

PERIODS OF CALM (HOURS): 0

Table 8 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: E

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	5	4	1	1	0	11
NNE	1	6	1	0	0	0	8
NE	0	0	0	0	0	0	0
ENE	1	2	6	7	3	0	19
E	3	1	3	2	13	13	35
ESE	1	2	6	11	2	0	22
SE	0	3	11	2	0	6	24
SSE	7	10	12	18	3	1	51
S	4	5	9	16	2	1	37
SSW	3	3	8	31	10	3	58
SW	1	2	13	29	8	1	54
WSW	0	2	11	21	5	4	43
W	1	4	10	8	0	0	23
WNW	0	4	10	6	0	0	20
NW	0	2	6	7	1	0	16
NNW	3	3	2	2	1	1	12
VARIABLE	0	0	0	0	0	0	0
TOTAL	25	56	112	161	49	30	433

PERIODS OF CALM (HOURS): 0

Table 8 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: F

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	3	0	0	0	0	3
NNE	0	2	0	0	0	0	2
NE	0	1	0	0	0	0	1
ENE	0	1	0	0	0	0	
E	0	2	1	1	2	2	3
ESE	1	1	1	2	3	0	8
SE	1	3	3	1	7	0	15
SSE	0	0	5	7	0	0	12
S	0	2	5	3	1	0	11
SSW	0	1	6	15	4	0	26
SW	0	0	2	4	4	0	10
WSW	3	0	9	2	0	0	14
W	0	0	6	0	0	0	6
WNW	0	2	2	2	0	0	6
NW	0	1	1	1	0	0	3
NNW	0	0	0	1	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	5	19	41	39	21	2	127

PERIODS OF CALM (HOURS): 0

Table 8 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: G

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	4	0	0	0	0	4
NNE	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	1
ENE	1	1	1	0	0	0	3
E	0	2	3	0	2	1	8
ESE	1	3	0	4	1	3	12
SE	0	6	5	2	4	2	19
SSE	1	4	4	5	3	0	17
S	0	0	3	3	2	0	8
SSW	1	2	9	1	1	0	14
SW	0	0	3	4	2	0	9
WSW	0	0	1	4	1	0	6
W	2	0	0	0	0	0	2
WNW	0	1	0	0	0	0	1
NW	2	1	1	0	0	0	4
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	8	25	30	23	16	6	108

PERIODS OF CALM (HOURS): 0

Table 8 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/01/83 TO 3/31/83

STABILITY CLASS: TOTAL

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	1	15	24	19	22	17	98
NNE	4	25	16	21	2	0	68
NE	5	18	26	19	2	1	71
ENE	2	8	43	36	51	43	183
E	4	17	42	42	74	37	216
ESE	3	14	27	29	10	3	86
SE	3	21	25	6	13	8	76
SSE	9	20	23	35	14	1	102
S	11	10	26	35	14	3	99
SSW	5	9	55	70	19	3	161
SW	3	7	34	67	23	9	143
WSW	16	7	52	87	61	21	244
W	4	7	40	47	27	12	137
WNW	1	9	19	31	16	12	89
NW	3	6	30	54	25	9	127
NNW	5	5	19	37	41	26	133
VARIABLE	0	0	0	0	0	0	0
TOTAL	79	198	501	635	414	205	2032

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 128

Table 9

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: A

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	1	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	1	2	0	0	3
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	1	0	1
W	0	0	0	0	0	0	0
WNW	0	0	0	2	1	0	3
NW	0	0	2	5	1	0	8
NNW	0	1	0	0	0	1	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	3	10	3	1	18

PERIODS OF CALM (HOURS): 0

Table 9 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: B

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	1	0	0	1	0	2
NE	0	0	0	1	0	0	1
ENE	0	0	1	3	0	0	4
E	0	0	0	4	0	0	4
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	1	0	0	1
S	0	0	0	0	0	0	0
SSW	0	0	0	1	0	0	1
SW	0	0	0	2	0	0	2
WSW	0	1	0	3	0	0	4
W	0	0	1	2	2	0	5
WNW	0	0	1	2	0	0	3
NW	0	2	8	8	0	0	18
NNW	0	0	7	2	0	0	9
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	4	18	29	3	0	54

PERIODS OF CALM (HOURS): 0

Table 9 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: C

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	2	6	3	6	2	19
NNE	0	3	0	2	1	0	6
NE	0	1	0	2	0	0	3
ENE	0	1	8	6	0	0	15
E	0	0	6	6	0	0	12
ESE	0	1	2	0	0	0	3
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	3	1	1	0	1	6
SSW	0	0	10	1	0	0	11
SW	0	1	1	6	0	1	9
WSW	0	0	5	17	4	0	26
W	0	1	3	5	2	0	11
WNW	0	0	1	1	0	0	2
NW	0	2	3	2	0	0	7
NNW	0	0	6	5	0	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	15	52	57	13	4	141

PERIODS OF CALM (HOURS): 0

Table 9 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: D

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	11	22	14	2	3	52
NNE	0	9	25	11	13	1	59
NE	0	18	43	40	8	0	109
ENE	2	28	68	37	12	1	148
E	2	35	68	46	20	5	176
ESE	3	12	35	11	0	0	61
SE	1	13	13	3	0	0	30
SSE	2	8	7	4	0	0	21
S	7	20	14	10	1	0	52
SSW	2	10	31	17	8	0	68
SW	1	15	20	32	5	4	77
WSW	0	11	44	34	14	0	103
W	0	9	30	17	6	3	65
WNW	0	4	4	11	2	2	23
NW	2	5	19	8	5	5	44
NNW	1	8	24	23	0	0	56
VARIABLE	0	0	0	0	0	0	0
TOTAL	23	216	467	318	96	24	1144

PERIODS OF CALM (HOURS): 0

Table 9 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: E

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	1	3	0	1	0	0	5
NNE	2	3	3	1	0	0	9
NE	1	11	6	3	0	0	21
ENE	1	20	7	1	1	0	30
E	4	18	23	0	1	1	47
ESE	8	16	25	2	0	0	51
SE	3	26	15	4	0	0	48
SSE	4	22	11	7	2	0	46
S	6	22	12	4	2	2	48
SSW	6	32	17	4	1	0	60
SW	4	19	41	5	1	0	70
WSW	2	12	13	4	0	0	31
W	0	10	20	2	0	0	32
WNW	2	8	5	0	0	0	15
NW	1	2	8	8	0	0	19
NNW	2	5	12	2	0	0	21
VARIABLE	0	0	0	0	0	0	0
TOTAL	47	229	218	48	8	3	553

PERIODS OF CALM (HOURS): 0

Table 9 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: F

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	3	0	0	0	0	0	3
NNE	0	1	0	0	0	0	1
NE	0	1	0	0	0	0	1
ENE	0	0	2	0	0	0	2
E	1	3	2	0	0	0	6
ESE	4	8	3	1	0	0	16
SE	5	11	2	0	0	0	18
SSE	7	14	0	0	0	0	21
S	7	17	0	0	0	0	24
SSW	2	21	1	0	0	0	24
SW	1	23	0	0	0	0	24
WSW	0	5	4	0	0	0	9
W	1	11	2	0	0	0	14
WNW	1	2	2	0	0	0	5
NW	0	3	2	0	0	0	5
NNW	1	3	2	0	0	0	6
VARIABLE	0	0	0	0	0	0	0
TOTAL	33	123	22	1	0	0	179

PERIODS OF CALM (HOURS): 0

Table 9 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: G

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	1	0	0	0	0	1
E	0	1	1	0	0	0	2
ESE	0	1	0	0	0	0	1
SE	0	1	0	0	0	0	1
SSE	3	1	0	0	0	0	4
S	5	6	0	0	0	0	11
SSW	2	11	0	0	0	0	13
SW	0	5	0	0	0	0	5
WSW	1	0	1	0	0	0	2
W	1	0	0	0	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	1	1	0	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	12	28	3	0	0	0	43

PERIODS OF CALM (HOURS): 0

Table 9 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: TOTAL

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	4	16	28	18	8	5	79
NNE	2	17	28	14	15	1	77
NE	1	31	49	47	8	0	136
ENE	3	50	86	47	13	1	200
E	7	57	100	56	21	6	247
ESE	15	38	65	14	0	0	132
SE	9	51	30	7	0	0	97
SSE	16	45	18	12	2	0	93
S	25	68	28	17	3	3	144
SSW	12	74	59	23	9	0	177
SW	6	63	62	45	6	5	187
WSW	3	29	67	58	19	0	176
W	2	31	56	26	10	3	128
WNW	3	14	13	16	3	2	51
NW	3	14	42	31	6	5	101
NNW	4	18	52	32	0	1	107
VARIABLE	0	0	0	0	0	0	0
TOTAL	115	616	783	463	123	32	2132

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 52

Table 10

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: A

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	1	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	1	2	0	3
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	1	1
W	0	0	0	0	0	0	0
WNW	0	0	0	0	3	0	3
NW	0	0	0	3	3	0	6
NNW	0	0	1	2	0	1	4
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	6	9	2	18

PERIODS OF CALM (HOURS): 0

Table 10 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: B

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	1	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	2	3	0	5
E	0	0	0	3	1	0	4
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	1	0	1
S	0	0	0	0	0	0	0
SSW	0	0	0	0	1	0	1
SW	0	0	1	0	0	0	1
WSW	0	0	1	1	2	0	4
W	0	0	0	2	2	1	5
WNW	0	0	0	1	1	0	2
NW	0	2	1	15	1	0	19
NNW	0	1	4	6	0	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	3	7	30	12	2	54

PERIODS OF CALM (HOURS): 0

Table 10 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: C

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	2	6	0	4	7	19
NNE	0	1	0	0	3	0	4
NE	0	0	0	1	0	0	1
ENE	0	1	4	9	0	0	14
E	0	1	2	9	3	0	15
ESE	0	1	2	0	0	0	3
SE	0	0	0	0	1	0	1
SSE	0	0	0	0	1	0	1
S	0	1	2	1	2	2	8
SSW	0	0	4	5	0	0	9
SW	0	1	1	3	3	1	9
WSW	0	0	6	6	6	3	21
W	0	1	1	3	8	0	13
WNW	0	0	0	1	1	0	2
NW	0	1	2	2	1	0	6
NNW	0	0	7	7	0	0	14
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	10	37	47	33	13	140

PERIODS OF CALM (HOURS): 0

Table 10 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: D

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	4	20	18	6	6	54
NNE	1	10	19	17	9	8	64
NE	1	8	34	37	13	2	95
ENE	0	19	56	43	20	23	161
E	3	9	41	39	39	36	167
ESE	0	8	25	23	11	2	69
SE	2	5	10	7	4	0	28
SSE	0	2	10	2	3	2	19
S	2	5	11	22	11	6	57
SSW	0	6	8	19	9	19	61
SW	1	4	8	19	23	11	66
WSW	0	8	19	39	26	11	103
W	0	3	24	27	10	5	69
WNW	1	2	8	10	3	5	29
NW	1	1	5	16	6	11	40
NNW	1	6	7	34	9	0	57
VARIABLE	0	0	0	0	0	0	0
TOTAL	13	100	305	372	202	147	1139

PERIODS OF CALM (HOURS): 0

Table 10 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: E

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	1	1	2	1	0	5
NNE	1	7	2	2	0	0	12
NE	2	12	7	1	1	0	23
ENE	1	5	16	5	2	2	31
E	1	5	10	16	1	3	36
ESE	2	12	12	30	8	0	64
SE	2	2	12	18	7	1	42
SSE	2	6	11	18	8	3	48
S	1	4	8	15	10	9	47
SSW	1	3	4	22	5	5	40
SW	0	3	10	35	21	2	71
WSW	0	3	5	17	5	1	31
W	0	4	12	15	3	0	34
WNW	0	0	7	7	10	0	24
NW	0	1	4	8	8	0	21
NNW	0	1	6	12	3	1	23
VARIABLE	0	0	0	0	0	0	0
TOTAL	13	69	127	223	93	27	552

PERIODS OF CALM (HOURS): 0

Table 10 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: F

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	2	0	1	0	3
NNE	0	0	0	0	0	0	0
NE	1	1	0	0	0	0	2
ENE	1	0	1	0	0	0	2
E	1	0	3	3	2	0	9
ESE	1	2	1	3	4	0	11
SE	0	3	3	8	0	0	14
SSE	0	3	1	14	0	0	18
S	0	5	5	8	1	0	19
SSW	0	1	6	18	5	0	30
SW	1	3	5	7	1	0	17
WSW	0	1	8	4	0	0	13
W	0	3	4	3	2	0	12
WNW	0	1	4	6	1	0	12
NW	1	0	3	2	3	0	9
NNW	1	1	3	1	1	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	7	24	49	77	21	0	178

PERIODS OF CALM (HOURS): 0

Table 10 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: G

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	1	0	2	0	0	3
ESE	1	0	1	0	0	0	2
SE	0	0	1	2	0	0	3
SSE	0	0	0	0	0	0	0
S	0	0	1	2	0	0	3
SSW	0	1	3	5	0	0	9
SW	0	0	3	5	0	0	8
WSW	0	0	3	6	0	0	9
W	0	1	1	0	1	0	3
WNW	0	1	0	0	0	0	1
NW	0	0	1	0	0	0	1
NNW	0	0	0	0	1	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	4	14	22	2	0	43

PERIODS OF CALM (HOURS): 0

Table 10 Continued

D A V I S - B E S S E
U N I T 1

JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/01/83 TO 6/30/83

STABILITY CLASS: TOTAL

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	7	29	20	12	13	81
NNE	2	18	21	19	12	9	81
NE	4	21	41	39	14	2	121
ENE	2	25	77	59	26	25	214
E	5	16	56	72	46	39	234
ESE	4	23	41	56	23	2	149
SE	4	10	26	35	12	1	88
SSE	2	11	22	34	13	5	87
S	3	15	27	49	26	17	137
SSW	1	11	25	69	20	24	150
SW	2	11	28	69	48	14	172
WSW	0	12	42	73	39	16	182
W	0	12	42	50	26	6	136
WNW	1	4	19	25	19	5	73
NW	2	5	16	46	22	11	102
NNW	2	9	28	62	14	2	117
VARIABLE	0	0	0	0	0	0	0
TOTAL	34	210	540	777	372	191	2124

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 60

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: A

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: B

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	1	0	0	0	1
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	0	0	0	1

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: C

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	0	0	0	1

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: D

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	1	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	2	2	0	0	4
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	1	4	0	0	0	5
SW	0	0	1	0	5	0	6
WSW	0	1	0	0	0	0	1
W	0	0	1	0	0	0	1
WNW	0	0	1	0	0	0	1
NW	0	0	0	0	0	0	0
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	2	11	2	5	0	20

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: E

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	2	0	0	0	0	2
SSE	0	0	2	0	0	0	2
S	0	0	0	0	0	0	0
SSW	2	0	0	0	0	0	2
SW	1	0	0	0	0	0	1
WSW	0	0	0	0	0	0	0
W	0	1	0	0	0	0	1
WNW	0	0	1	0	0	0	1
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	3	3	3	0	0	0	9

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: F

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: G

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: TOTAL

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	1	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	2	2	0	0	4
ESE	0	0	0	0	0	0	0
SE	0	2	0	0	0	0	2
SSE	0	0	2	0	0	0	2
S	0	0	0	0	0	0	0
SSW	2	1	4	0	0	0	7
SW	1	0	2	0	5	0	8
WSW	0	1	0	0	0	0	1
W	0	1	1	0	0	0	2
WNW	0	0	2	0	0	0	2
NW	0	0	0	0	0	0	0
NNW	0	0	2	0	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	3	5	16	2	5	0	31

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: A

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS): 0

DAVIS - BESSE
UNIT 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: B

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	1	0	0	0	1
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	0	0	0	1

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: C

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	0	0	0	1

PERIODS OF CALM (HOURS): 0

D A V I S - P E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: D

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	1	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	1	0	1
E	0	0	0	1	2	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	2	3	0	0	5
SW	0	0	1	0	0	2	3
WSW	0	0	0	1	0	3	4
W	0	0	0	1	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	0	1	0	0	1
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	5	7	3	5	20

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: E

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	4	0	0	4
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	3	0	0	3
W	0	0	0	0	0	0	0
WNW	0	0	1	1	0	0	2
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	8	0	0	9

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: F

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: G

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 1/1/83 to 3/31/83

STABILITY CLASS: TOTAL

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	1	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	1	0	1
E	0	0	0	1	2	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	4	0	0	4
S	0	0	0	0	0	0	0
SSW	0	0	2	3	0	0	5
SW	0	0	2	0	0	2	4
WSW	0	0	0	4	0	3	7
W	0	0	0	1	0	0	1
WNW	0	0	1	1	0	0	2
NW	0	0	0	1	0	0	1
NNW	0	0	2	0	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	8	15	3	5	31

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: A

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	1	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	1	0	0	1

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: B

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	1	0	0	1
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	1	0	0	1

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: C

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	1	0	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	0	1	1	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	1	1	0	3

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: D

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	1	1	0	0	0	2
NNE	0	3	2	0	0	0	5
NE	0	1	0	0	0	0	1
ENE	0	0	1	5	0	0	6
E	0	1	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	4	2	0	0	6
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	2	0	0	2
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	1	0	1	0	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	6	9	9	0	0	25

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: E

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	1
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	1	0	1	0	0	0	2
SE	0	1	0	0	0	0	1
SSE	1	0	0	2	0	0	3
S	0	1	0	0	0	0	1
SSW	0	0	0	0	0	0	0
SW	1	0	0	0	0	0	1
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	1	0	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	3	5	1	2	0	0	11

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: F

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	2	0	0	0	2
SSE	0	0	0	0	0	0	0
S	0	2	0	0	0	0	2
SSW	0	1	0	0	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	3	2	0	0	0	5

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: G

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: TOTAL

ELEVATION: 35 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	1	1	0	0	0	2
NNE	0	3	2	0	0	0	5
NE	0	2	0	0	0	0	2
ENE	0	1	1	5	0	0	7
E	0	1	0	0	0	0	1
ESE	1	0	1	0	0	0	2
SE	0	1	2	0	0	0	3
SSE	1	0	0	3	0	0	4
S	0	3	4	3	0	0	10
SSW	0	1	1	0	0	0	2
SW	1	0	0	0	0	0	1
WSW	0	0	0	1	1	0	2
W	0	0	0	2	0	0	2
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	1	1	1	0	0	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	4	14	13	14	1	0	46

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: A

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	1	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	0	1

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: B

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	1	0	1
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	0	1

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: C

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	1	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	2	0	2
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	3	0	3

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: D

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	3	0	0	0	3
NNE	1	2	2	0	0	0	5
NE	0	1	0	0	0	0	1
ENE	0	0	1	0	2	3	6
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	2	4	0	6
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	2	0	2
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	1	1	0	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	4	7	2	8	3	25

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: E

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	1	0	0	0	0	1
NE	0	1	0	0	0	0	1
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	1	0	0	1	0	0	2
SE	0	0	0	1	0	0	1
SSE	0	0	0	0	2	0	2
S	0	0	0	1	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	1	0	0	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	4	1	3	2	0	11

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: F

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	1	0	1
SE	0	0	0	1	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	2	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	1
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	3	1	0	5

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/30/83

STABILITY CLASS: G

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0

PERIODS OF CALM (HOURS): 0

D A V I S - B E S S E
U N I T 1

BATCH RELEASE JOINT FREQUENCY DISTRIBUTION
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 4/1/83 to 6/03/83

STABILITY CLASS: TOTAL

ELEVATION: 250 FEET

WIND DIRECTION	WIND SPEED (MPH)						TOTAL
	0.7- 3.4	3.5- 7.4	7.5- 12.4	12.5- 18.4	18.5- 24.4	>24.4	
N	0	0	3	0	0	0	3
NNE	1	3	2	0	0	0	6
NE	0	2	0	0	0	0	2
ENE	0	1	1	0	2	3	7
E	0	0	0	0	0	0	0
ESE	1	0	0	1	1	0	3
SE	0	0	0	2	0	0	2
SSE	0	0	0	0	3	0	3
S	0	0	0	3	6	0	9
SSW	0	0	0	2	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	1
W	0	1	0	0	4	0	5
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	1	2	0	0	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	8	9	8	16	3	46

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 0

HOURLY METEOROLOGICAL DATA DURING BATCH RELEASES
 DAVIS-BESSE NUCLEAR POWER STATION
 January 1 - March 31, 1983

<u>YR.</u>	<u>MONTH</u>	<u>DAY</u>	<u>HOUR</u>	<u>35' WIND SPD (MPH)</u>	<u>35' WIND DIRECTION</u>	<u>ΔT 250' - 35' (°F)</u>
83	1	13	19	4.8	249°	-1.2
83	1	13	20	3.5	225°	-0.7
83	1	13	21	2.8	212°	-0.5
83	1	13	22	2.8	204°	-0.3
83	1	14	3	5.9	137°	0.2
83	1	14	4	6.9	143°	-0.1
83	1	14	5	8.0	146°	0.5
83	1	14	6	8.8	149°	0.3
83	1	28	16	9.9	204°	-2.1
83	1	28	17	9.7	206°	-1.8
83	1	28	18	9.1	206°	-1.6
83	2	3	11	21.8	235°	-1.9
83	2	3	12	21.3	231°	-1.8
83	2	3	13	20.5	229°	-1.8
83	2	3	14	20.1	228°	-1.8
83	2	3	15	21.5	232°	-1.8
83	2	7	17	12.1	299°	-1.0
83	2	7	18	8.8	293°	-0.4
83	2	7	19	7.2	271°	-0.3
83	2	7	20	9.3	260°	-0.7
83	2	14	9	5.8	199°	-0.2
83	2	14	10	8.7	211°	-1.3
83	2	14	11	9.5	232°	-1.7
83	2	14	12	9.6	218°	-2.4
83	2	23	11	8.7	354°	-1.8
83	2	23	12	9.9	332°	-2.2
83	2	23	13	8.6	330°	-2.4
83	3	18	19	13.4	77°	-1.3
83	3	18	20	11.8	87°	-1.3
83	3	18	21	12.5	89°	-1.2
83	3	18	22	13.3	88°	-1.3

HOURLY METEOROLOGICAL DATA DURING BATCH RELEASES

DAVIS-BESSE NUCLEAR POWER STATION

April 1 - June 30, 1983

YR	MONTH	DAY	HOUR	35' WIND SPD (MPH)	35' WIND DIRECTION	ΔT 250' - 35' (°F)
83	4	13	9	14.9	149°	-0.5
83	4	13	10	16.8	151°	-0.6
83	4	13	11	16.6	157°	-1.7
83	4	13	12	15.3	171°	-2.0
83	4	22	15	8.5	76°	-0.1
83	4	25	18	5.7	353°	-1.5
83	4	25	19	2.8	320°	-0.6
83	4	25	20	3.4	219°	1.6
83	4	25	21	4.1	212°	3.8
83	5	6	5	5.3	181°	6.2
83	5	6	6	5.3	185°	4.2
83	5	6	7	5.9	180°	1.6
83	5	6	8	9.3	175°	-1.2
83	5	6	9	9.7	185°	-1.6
83	5	6	10	11.8	194°	-1.9
83	5	6	11	13.4	182°	-1.7
83	5	6	12	12.7	179°	-2.1
83	5	6	13	11.6	180°	-1.6
83	5	6	14	14.3	175°	-1.9
83	5	20	14	18.4	257°	-2.4
83	5	20	15	17.7	256°	-2.3
83	5	20	16	17.0	261°	-2.2
83	5	20	17	14.7	258°	-1.9
83	6	1	18	8.2	16°	-2.0
83	6	1	19	7.5	23°	-1.9
83	6	1	20	5.4	32°	-1.5
83	6	1	21	3.4	82°	-1.4
83	6	1	22	2.9	167°	0.1
83	6	4	11	10.5	337°	-2.3
83	6	4	12	8.9	5°	-2.1
83	6	4	13	7.0	15°	-1.8
83	6	4	14	4.3	28°	-1.9
83	6	4	15	3.9	51°	-1.1
83	6	5	19	4.5	76°	0.2
83	6	5	20	4.3	49°	-0.0
83	6	5	21	6.2	328°	-0.1
83	6	5	22	2.9	106°	0.3
83	6	13	21	7.8	121°	3.0
83	6	13	22	8.4	123°	4.2
83	6	13	23	7.6	123°	3.4
83	6	13	24	6.0	137°	2.1
83	6	28	20	17.6	68°	-1.4
83	6	28	21	17.3	69°	-1.4
83	6	28	22	17.6	69°	-1.4
83	6	28	23	16.5	65°	-1.4
83	6	28	24	14.9	67°	-1.4

August 22, 1983
Docket No. 50-346
License No. NPF-3

DmB

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Mr. James G. Keppler
Regional Director, Region III
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

PRINCIPAL STAFF	
RA	ENF
D/RA	SCS
A/RA	PAO
SRP	SLO
DRMA	RC
ORMSP	
DE	
ML	
OL	FILE <i>...</i>

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Dear Mr. Keppler:

Effluent and Waste Disposal Semiannual Report for the Period
From January 1, 1983 Through June 30, 1983 Davis-Besse Nuclear
Power Station Unit 1

Enclosed find two (2) copies of the Effluent and Waste Disposal Semi-annual Report for Davis-Besse Nuclear Power Station covering the first and second quarters of 1983.

The applicable portions of Regulatory Guides 1.109, 1.111, and 1.113 have been used along with NUREG-0133 for dose calculations and meteorological modeling methodology to demonstrate compliance with Appendix I to 10 CFR Part 50.

Sincerely,

Terry D Murray

Terry D. Murray
Station Superintendent
Davis-Besse Nuclear Power Station

TDM/JSL/yml

Enclosures

cc: Mr. Victor Stello, Jr., Director
Office of Inspection and Enforcement
Encl: 25 copies

Health Program Director
Ohio Department of Health
Encl: 1 copy

Ohio Environmental Protection Agency
Northwest District Office
Encl: 1 copy

Mr. James P. Greer
Ottawa County Disaster Services
Encl: 1 copy

NRC Resident Inspector
Encl: 1 copy

IE: 25
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