

SEMI-ANNUAL RADIOACTIVE LIQUID

AND

GASEOUS RELEASE REPORT

DAVIS-BESSE NUCLEAR POWER STATION

UNIT 1

For the Period From

July 1, 1982 - December 31, 1982

Docket No. 50-346

License No. NPF-3

TOLEDO EDISON COMPANY

300 MADISON AVENUE

TOLEDO, OHIO 43652

February, 1983

SEMI ANNUAL RADIOACTIVE LIQUID  
AND  
GASEOUS RELEASE REPORT  
DAVIS-BESSE NUCLEAR POWER PLANT  
UNIT 1  
July 1, 1982 - December 31, 1982

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Facility: Davis-Besse Nuclear Power Station, Unit 1  
 Licensee: The Toledo Edison Company  
 Reporting Period: July 1, 1982 to December 31, 1982

## 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 $\gamma$ /site 20 mrad $\beta$ /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 $\gamma$ /qtr. 40 mrad $\beta$ /qtr. 40 mrad $\gamma$ /12 cons. mos. 80 mrad $\beta$ /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 $\gamma$ /qtr. 10 mrad $\beta$ /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 &amp; 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 scintillation.
- 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:                | 43               |
| 2. Total time period for batch release:     | 6.07E+01 Hours   |
| 3. Maximum time period for a batch release: | 1.85E+02 Minutes |
| 4. Average time period for batch releases:  | 8.47E+01 Minutes |
| 5. Minimum time period for a batch release: | 3.50E+01 Minutes |

## b. Gaseous

- |   |                  |
|---|------------------|
| 1. Number of batch releases:                | 6                |
| 2. Number of containment purges:            | 0                |
| 3. Number of waste gas decay tank releases: | 6                |
| 4. Total time period for batch releases:    | 2.43E+01 Hours   |
| 5. Maximum time period for batch releases:  | 8.44E+02 Minutes |
| 6. Average time period for batch releases:  | 2.43E+02 Minutes |
| 7. Minimum time period for a batch release: | 5.50E+01 Minutes |

7. Curies of Radionuclides and Offsite Doses to Humans Resulting from the Release of Radioactive Effluents at the Site Boundary

<u>Type of Activity</u>	<u>Limits From Environmental Technical Specifications</u>	<u>Percent of Limit</u>
a. Quarterly: Gaseous, Third Quarter, 1982		
Noble gases (gamma)	20 mrad/qtr.	2.32 E-06
Noble gases (beta)	40 mrad/qtr.	1.85 E-03
Airborne radioiodines and particulates	30 mrem/qtr.	4.60 E-04
Iodine-131	2 Ci/qtr.	9.30 E-04
b. Quarterly: Gaseous, Fourth Quarter, 1982		
Noble gases (gamma)	20 mrad/qtr.	1.35 E-03
Noble gases (beta)	40 mrad/qtr.	1.86 E-02
Airborne radioiodines and particulates	30 mrem/qtr.	2.17 E-02
Iodine-131	2 Ci/qtr.	3.55 E-02
c. 12 Consecutive Months: Gaseous		
Noble gases (gamma)	40 mrad/12 mo.	6.49 E-04
Noble gases (beta)	80 mrad/12 mo.	1.06 E-02
Airborne radioiodines and particulates	60 mrem/12 mo.	1.06 E-02
Iodine-131	4 Ci/12 mo.	1.82 E-02
d. Quarterly: Liquid, Third Quarter, 1982		
Liquid (excluding tritium and dissolved gases)	10 Ci/qtr.	2.91 E-01
e. Quarterly: Liquid, Fourth Quarter, 1982		
Liquid (excluding tritium and dissolved gases)	30 Ci/qtr.	1.72 E-02

<u>Type of Activity</u>	<u>Limits from Environmental Technical Specifications</u>	<u>Percent of limit</u>
f. 12 Consecutive Months:		
Liquid (excluding tritium and dissolved gases)	20 Ci/12 mo.	1.54 E-01

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.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)  
GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	3RD QUARTER	4TH QUARTER	EST. TOTAL ERROR, %
<b>A. FISSION &amp; ACTIVATION GASES</b>				
1. TOTAL RELEASE	CI	7.02E-01	1.26E+01	2.00E+01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	8.63E-02	1.61E+00	
*3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.85E-03	1.86E-02	
<b>B. IODINES</b>				
1. IODINE - 131	CI	1.86E-05	7.10E-04	2.00E+01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	2.34E-06	8.93E-05	
**3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	9.31E-04	3.55E-02	
<b>C. PARTICULATES</b>				
1. PARTICULATES WITH HALF-LIVES > 8 DAYS	CI	0.00E-01	3.06E-05	2.00E+01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	0.00E-01	3.85E-06	
***3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	0.00E-01	2.17E-02	
4. GROSS ALPHA RADIO- ACTIVITY	CI	1.26E-05	6.66E-06	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CI	5.67E+00	2.46E+01	2.00E+01
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	7.13E-01	3.10E+00	
****3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.49E-03	6.46E-03	

\* 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 FSAR.

## EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)

## 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.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)  
 GASEOUS EFFLUENTS MIXED MODE RELEASES

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		3RD QUARTER	4TH QUARTER	3RD QUARTER	4TH QUARTER
1. FISSION GASES					
KR-85	CI	0.00E-01	0.00E-01	7.02E-01	2.18E-01
XE131M	CI	0.00E-01	0.00E-01	0.00E-01	2.26E-01
XE133M	CI	0.00E-01	0.00E-01	0.00E-01	1.17E-02
XE-133	CI	0.00E-01	0.00E-01	0.00E-01	1.23E+01
TOTAL FOR PERIOD	CI	0.00E-01	0.00E-01	7.02E-01	1.28E+01
2. IODINES					
I-131	CI	1.86E-05	7.10E-04	0.00E-01	0.00E-01
I-133	CI	0.00E-01	1.37E-04	0.00E-01	0.00E-01
TOTAL FOR PERIOD	CI	1.86E-05	8.47E-04	0.00E-01	0.00E-01
3. PARTICULATES					
H-3	CI	5.67E+00	2.46E+01	2.08E-03	1.42E-02
SR-89	CI	0.00E-01	1.15E-05	0.00E-01	0.00E-01
SR-90	CI	0.00E-01	1.91E-05	0.00E-01	0.00E-01
TOTAL FOR PERIOD	CI	5.67E+00	2.46E+01	2.08E-03	1.42E-02



TABLE 2A

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EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)  
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	UNIT	3RD QUARTER	4TH QUARTER	EST. TOTAL ERROR, %
<b>A. FISSION &amp; ACTIVATION PRODUCTS</b>				
1. TOTAL RELEASE (WITHOUT TRITIUM, GASES, ALPHA)	CI	2.91E-02	1.72E-03	2.00E+01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	3.24E-07	2.40E-08	
3. PERCENT OF TECHNICAL SPEC. LIMIT, 10 CI	%	2.91E-01	1.72E-02	
*4. PERCENT OF 10 CFR 20 LIMIT	%	5.66E-01	2.54E+00	
<b>B. TRITIUM</b>				
1. TOTAL RELEASE	CI	1.77E+00	1.23E+01	2.00E+01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	1.22E-05	1.55E-04	
*3. PERCENT OF 10 CFR 20 LIMIT	%	4.08E-01	5.16E+00	
<b>C. DISSOLVED &amp; ENTRAINED GASES</b>				
1. TOTAL RELEASE	CI	2.08E-03	3.82E-03	2.00E+01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	2.31E-08	5.32E-08	
*3. PERCENT OF 4 E-5 UCI/CC LIMIT	%	5.77E-02	1.33E-01	
<b>D. GROSS ALPHA RADIOACTIVITY</b>				
1. TOTAL RELEASE	CI	4.73E-05	0.00E-01	2.00E+01
<b>E. VOLUME OF WASTE RELEASED</b>				
(PRIOR TO DILUTION)	LITERS	5.45E+05	5.24E+05	2.00E+01
<b>F. VOLUME OF DILUTION WATER</b>				
1. DURING THE TIME OF RELEASES	LITERS	1.44E+08	7.87E+07	2.00E+01

\* BASED ON DILUTION DURING THE TIME OF RELEASES ONLY.



EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1982)  
 LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE*		BATCH MODE	
		3RD QUARTER	4TH QUARTER	3RD QUARTER	4TH QUARTER
MN-54	CI			3.24E-04	2.36E-05
FE-59	CI			6.20E-04	0.00E-01
CO-58	CI			2.50E-03	1.44E-04
CO-60	CI			4.44E-03	3.17E-04
SR-89	CI			0.00E-01	6.10E-06
SR-90	CI			0.00E-01	1.02E-05
ZR-97	CI			1.63E-04	0.00E-01
NB-97	CI			3.33E-03	0.00E-01
TC99M	CI			9.11E-06	0.00E-01
AG110M	CI			1.54E-02	5.31E-05
I-131	CI			0.00E-01	5.85E-04
CS-134	CI			6.99E-04	1.70E-04
CS-137	CI			1.63E-03	4.14E-04
TOTAL FOR PERIOD ABOVE	CI			2.91E-02	1.72E-03

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

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (82-2)

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 <sup>3</sup> Ci	1.28E+01 4.36E+00	+2.00E+01
b. Dry compressible waste, contaminated equip., etc.	m <sup>3</sup> Ci	1.04E+02 4.34E+00	+2.00E+01
c. Irradiated components, control rods, etc.	m <sup>3</sup> Ci	NONE	NA
d. Other (describe)	m <sup>3</sup> Ci	NONE	NA

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

a.	Co-60	%	5.17E+01
	Cs-137	%	2.43E+01
	Co-58	%	1.00E+01
b.	Co-58	%	5.96E+01
	Co-60	%	3.08E+01
	Cs-137	%	7.37E+00
c.	NONE	%	NA
		%	
		%	
d.	NONE	%	NA
		%	
		%	

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
8	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	N/A	N/A

## SEMIANNUAL MAXIMUM INDIVIDUAL DOSE TABLE (GASEOUS)

JULY 1, 1982 THROUGH DEC. 31, 1982

DOSE DUE TO RELEASE OF NOBLE GAS

## WHOLE BODY DOSE (MREM)

	CRITICAL SECTOR	CRITICAL DISTANCE	CRITICAL AGE	CRITICAL ORGAN	CRITICAL DOSE
THIRD QUARTER	SW	1148.(M)	NA	W BODY	1.80E-07
FOURTH QUARTER	NNE	966.(M)	NA	W BODY	7.04E-04
SEMIANNUAL TOTAL	NNE	966.(M)	NA	W BODY	7.04E-04

## SKIN DOSES (MREM)

	CRITICAL SECTOR	CRITICAL DISTANCE	CRITICAL AGE	CRITICAL ORGAN	CRITICAL DOSE
THIRD QUARTER	SW	1148.(M)	NA	SKIN	2.16E-05
FOURTH QUARTER	NNE	966.(M)	NA	SKIN	2.01E-03
SEMIANNUAL TOTAL	NNE	966.(M)	NA	SKIN	2.01E-03

## SEMIANNUAL MAXIMUM INDIVIDUAL DOSE TABLE (GASEOUS)

JULY 1, 1982 THROUGH DEC. 31, 1982

## 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
THIRD QUARTER	SSE	1931.(M)	CHILD	W BODY	7.87E-04
FOURTH QUARTER	NNW	1287.(M)	CHILD	W BODY	9.53E-03
SEMIANNUAL TOTAL	NNW	1287.(M)	CHILD	W BODY	9.97E-03

## SIGNIFICANT ORGAN DOSES (MREM)

	CRITICAL SECTOR	CRITICAL DISTANCE	CRITICAL AGE	CRITICAL ORGAN	CRITICAL DOSE
THIRD QUARTER	SSE	1931.(M)	CHILD	THYROID	1.03E-03
FOURTH QUARTER	SSE	8689.(M)	INFANT	THYROID	1.06E-01
SEMIANNUAL TOTAL	SSE	8689.(M)	INFANT	THYROID	1.07E-01

## SEMIANNUAL POPULATION DOSE TABLE (GASEOUS)

JULY 1, 1982 THROUGH DEC. 31, 1982

DOSE DUE TO RELEASE OF NOBLE GAS

	TOTAL INTEGRATED POPULATION DOSE (MANREM)	AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)
	WHOLE BODY	WHOLE BODY
THIRD QUARTER	1.78E-06	6.01E-10
FOURTH QUARTER	8.11E-05	3.65E-08
SEMIANNUAL TOTAL	8.29E-05	3.73E-08

## SEMIANNUAL POPULATION DOSE TABLE (GASEOUS)

JULY 1, 1982 THROUGH DEC. 31, 1982

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
THIRD QUARTER	1.73E-03	7.78E-07
FOURTH QUARTER	8.27E-03	3.72E-06
SEMIANNUAL TOTAL	1.00E-02	4.49E-06

## SEMIANNUAL POPULATION DOSE TABLE (LIQUID)

JULY 1, 1982 THROUGH DEC. 31, 1982

	TOTAL INTEGRATED POPULATION DOSE (MANREM)	AVERAGE DOSE TO INDIVIDUALS IN POPULATION (MREM)
	WHOLE BODY	WHOLE BODY
THIRD QUARTER	4.25E-01	1.91E-04
FOURTH QUARTER	9.18E-02	4.12E-05
SEMIANNUAL TOTAL	5.17E-01	2.32E-04



## SEMIANNUAL MAXIMUM INDIVIDUAL DOSE TABLE (LIQUID)

JULY 1, 1982 THROUGH DEC. 31, 1982

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
THIRD QUARTER	ADULT	2.86E-02	TEEN	LIVER	4.12E-02
FOURTH QUARTER	ADULT	9.73E-03	TEEN	LIVER	1.34E-02
SEMIANNUAL TOTAL	ADULT	3.84E-02	TEEN	LIVER	5.46E-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: 7/01/82 TO 9/30/82

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	3	1	1	0	0	5
NNE	0	3	1	0	0	0	4
NE	0	1	0	0	0	0	1
ENE	0	1	0	0	0	0	1
E	0	1	0	0	0	0	1
ESE	0	0	0	0	1	1	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	1	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	2	0	0	2
WSW	0	1	5	1	0	0	7
W	0	0	0	0	1	0	1
WNW	0	1	0	0	0	0	1
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	0	12	7	4	2	2	27

PERIODS OF CALM (HOURS): 0

Table 7 Continued

DAVIS - BESSE  
UNIT 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 7/01/82 TO 9/30/82

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	4	4	0	0	0	8
NNE	1	2	4	2	0	0	9
NE	0	0	0	0	0	0	0
ENE	0	1	1	0	0	0	2
E	0	1	4	0	0	0	5
ESE	0	0	1	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	1	0	0	0	0	1
S	0	1	2	0	0	0	3
SSW	0	1	5	0	0	0	6
SW	1	0	10	1	0	0	12
WSW	0	2	10	4	0	0	16
W	0	0	1	0	0	0	1
WNW	0	1	1	1	0	0	3
NW	0	1	8	1	0	0	10
NNW	0	2	1	1	0	0	4
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	17	52	10	0	0	81

PERIODS OF CALM (HOURS): 0

Table 7 Continued

D A V I S - F 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: 7/01/82 TO 9/30/82

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	4	9	4	0	0	17
NNE	0	1	3	2	0	0	6
NE	0	2	4	0	0	0	6
ENE	0	0	6	0	0	0	6
E	0	2	3	0	0	0	5
ESE	0	1	1	0	0	0	2
SE	0	2	0	0	0	0	2
SSE	0	0	0	0	0	0	0
S	0	2	2	0	0	0	4
SSW	0	4	6	0	0	0	10
SW	1	7	18	2	0	0	28
WSW	0	2	10	10	0	0	22
W	0	0	3	3	0	0	6
WNW	0	0	4	0	0	0	4
NW	0	3	8	1	0	0	12
NNW	2	2	9	2	0	0	15
VARIABLE	0	0	0	0	0	0	0
TOTAL	3	32	86	24	0	0	145

PERIODS OF CALM (HOURS): 0

Table 7 Continued

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: 7/01/82 TO 9/30/82

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	9	23	10	1	0	44
NNE	3	30	33	7	0	0	73
NE	2	29	65	17	0	0	113
ENE	3	47	60	12	0	0	122
E	0	57	43	0	0	0	100
ESE	1	26	8	0	0	0	35
SE	3	20	2	0	0	0	25
SSE	4	13	6	0	0	0	23
S	7	21	13	0	0	0	41
SSW	4	37	35	2	0	0	78
SW	4	32	43	15	3	0	97
WSW	2	12	34	15	4	0	67
W	3	10	27	2	1	0	43
WNW	3	12	16	4	1	0	36
NW	2	7	20	8	0	0	37
NNW	1	5	12	5	2	0	25
VARIABLE	0	0	0	0	0	0	0
TOTAL	43	367	440	97	12	0	959

PERIODS OF CALM (HOURS): 0

Table 7 Continued

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: 7/01/82 TO 9/30/82

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	2	1	0	0	0	3
NNE	0	0	0	0	0	0	0
NE	3	1	5	0	0	0	9
ENE	1	22	7	0	0	0	30
E	1	16	8	0	0	0	25
ESE	5	27	6	0	0	0	38
SE	7	48	3	0	0	0	58
SSE	9	25	1	0	0	0	35
S	5	29	4	0	0	0	38
SSW	4	65	28	0	0	0	97
SW	1	50	25	2	0	0	78
WSW	2	22	12	1	0	0	37
W	3	11	23	1	0	0	38
WNW	5	6	5	5	0	0	21
NW	1	6	8	4	0	0	19
NNW	1	13	2	0	0	0	16
VARIABLE	0	0	0	0	0	0	0
TOTAL	48	343	138	13	0	0	542

PERIODS OF CALM (HOURS): 0

Table 7 Continued

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: 7/01/82 TO 9/30/82

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	3	3	1	0	0	0	7
SE	3	10	0	0	0	0	13
SSE	18	13	0	0	0	0	31
S	28	27	0	0	0	0	55
SSW	13	50	1	0	0	0	64
SW	9	37	0	0	0	0	46
WSW	6	36	1	0	0	0	43
W	1	23	3	0	0	0	27
WNW	1	5	0	0	0	0	6
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	82	205	6	0	0	0	293

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: 7/01/82 TO 9/30/82

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	2	1	0	0	0	0	3
S	7	7	0	0	0	0	14
SSW	6	23	0	0	0	0	29
SW	4	22	0	0	0	0	26
WSW	1	12	0	0	0	0	13
W	1	9	0	0	0	0	10
WNW	0	4	0	0	0	0	4
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	21	78	0	0	0	0	99

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

PAGE 24

Table 7 Continued

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: 7/01/82 TO 9/30/82

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	1	22	38	15	1	0	77
NNE	4	36	41	11	0	0	92
NE	5	33	74	17	0	0	129
ENE	4	71	74	12	0	0	161
E	1	77	58	0	0	0	136
ESE	9	57	17	0	1	1	85
SE	13	80	5	0	0	0	98
SSE	33	53	7	0	0	0	93
S	47	87	21	0	0	1	156
SSW	27	180	75	2	0	0	284
SW	20	148	96	22	3	0	289
WSW	11	87	72	31	4	0	205
W	8	53	57	6	2	0	126
WNW	9	29	26	10	1	0	75
NW	3	18	44	14	0	0	79
NNW	4	23	24	8	2	0	61
VARIABLE	0	0	0	0	0	0	0
TOTAL	199	1054	729	148	14	2	2146

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 62

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: 7/01/82 TO 9/30/82

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	2	0	1	0	0	3
NNE	1	3	1	0	0	0	5
NE	0	0	1	0	0	0	1
ENE	0	1	0	0	0	0	1
E	0	2	0	0	0	0	2
ESE	0	0	0	0	1	1	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	1	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	1	0	1
WSW	0	0	4	2	1	0	7
W	0	0	0	1	1	0	2
WNW	0	1	0	0	0	0	1
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	1	10	6	4	4	2	27

PERIODS OF CALM (HOURS): 0

Table 8 Continued

DAVIS - BESSE  
UNIT 1

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

PERIOD OF RECORD: 7/01/82 TO 9/30/82

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	4	4	0	0	0	8
NNE	1	1	2	3	0	0	7
NE	0	2	0	0	0	0	2
ENE	0	0	1	0	0	0	1
E	0	1	3	0	0	0	4
ESE	0	1	1	1	0	0	3
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	1	0	0	0	0	1
SSW	0	1	2	5	0	0	8
SW	0	0	4	4	0	0	8
WSW	1	1	5	10	2	0	19
W	0	0	2	1	0	0	3
WNW	0	0	0	0	0	0	0
NW	0	0	7	3	1	0	11
NNW	0	1	1	4	0	0	6
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	13	32	31	3	0	81

PERIODS OF CALM (HOURS): 0

Table 8 Continued

DAVIS - BESSE  
UNIT 1

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

PERIOD OF RECORD: 7/01/82 TO 9/30/82

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	9	4	1	0	16
NNE	1	3	4	1	1	0	10
NE	0	1	3	1	0	0	5
ENE	0	0	4	2	0	0	6
E	0	1	3	0	0	0	4
ESE	0	2	1	0	0	0	3
SE	0	2	0	0	0	0	2
SSE	0	0	0	0	0	0	0
S	0	0	2	1	0	0	3
SSW	0	2	4	3	0	0	9
SW	1	1	13	7	0	0	22
WSW	0	1	9	18	1	0	29
W	0	0	1	5	1	0	7
WNW	0	0	3	0	0	0	3
NW	0	2	6	4	1	0	13
NNW	1	2	0	9	1	0	13
VARIABLE	0	0	0	0	0	0	0
TOTAL	3	19	62	55	6	0	145

PERIODS OF CALM (HOURS): 0

Table 8 Continued

DAVIS - BESSE  
UNIT 1

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

PERIOD OF RECORD: 7/01/82 TO 9/30/82

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	6	18	16	4	0	45
NNE	3	20	26	9	1	0	59
NE	3	23	52	32	1	0	111
ENE	0	30	47	31	10	0	118
E	2	26	60	19	0	0	107
ESE	2	18	20	7	0	0	47
SE	2	7	14	1	0	0	24
SSE	0	7	7	5	1	0	20
S	2	8	21	18	2	0	51
SSW	1	8	23	22	6	0	60
SW	2	10	21	30	12	2	77
WSW	5	9	18	38	12	6	88
W	2	9	12	18	3	2	46
WNW	1	4	14	8	2	2	31
NW	2	6	15	14	8	0	45
NNW	0	4	7	11	4	4	30
VARIABLE	0	0	0	0	0	0	0
TOTAL	28	195	375	279	66	16	959

PERIODS OF CALM (HOURS): 0

Table 8 Continued

DAVIS - BESSE  
UNIT 1

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

PERIOD OF RECORD: 7/01/82 TO 9/30/82

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	1	5	5	2	0	0	13
NNE	0	3	0	1	0	0	4
NE	0	1	1	3	0	0	5
ENE	0	7	22	5	0	0	34
E	0	3	14	6	0	0	23
ESE	1	3	17	9	2	0	32
SE	1	7	40	14	0	0	62
SSE	0	2	12	16	0	0	30
S	1	1	1	21	6	0	30
SSW	0	1	15	47	10	0	73
SW	0	4	24	41	5	0	74
WSW	1	2	5	39	2	0	49
W	2	5	8	12	1	0	28
WNW	1	5	4	19	10	1	40
NW	0	4	7	4	5	0	20
NNW	0	2	12	7	4	0	25
VARIABLE	0	0	0	0	0	0	0
TOTAL	8	55	187	246	45	1	542

PERIODS OF CALM (HOURS): 0



Table 8 Continued

DAVIS - BESSE  
UNIT 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 7/01/82 TO 9/30/82

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	1	0	0	0	0	1
NNE	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	2	0	0	0	0	2
E	1	1	0	0	0	0	2
ESE	0	1	3	1	0	0	5
SE	1	4	4	4	0	0	13
SSE	0	4	16	8	0	0	28
S	4	5	10	31	0	0	50
SSW	1	1	5	37	8	0	52
SW	0	3	13	17	0	0	33
WSW	1	7	9	14	0	0	31
W	1	1	6	7	0	0	15
WNW	1	0	18	18	0	0	37
NW	0	0	8	8	0	0	16
NNW	1	2	3	1	0	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	12	32	95	146	8	0	293

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: 7/01/82 TO 9/30/82

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	1	0	0	0	0	0	1
NNE	0	1	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	1	1	0	0	0	0	2
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	1	0	0	0	1
S	1	1	7	8	0	0	17
SSW	0	0	8	6	1	0	15
SW	0	1	6	10	3	0	20
WSW	0	1	5	5	0	0	11
W	0	3	2	2	0	0	7
WNW	0	1	3	3	0	0	7
NW	0	1	3	9	0	0	13
NNW	0	0	3	0	0	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	3	11	38	43	4	0	99

PERIODS OF CALM (HOURS): 0

Table 8 Continued

DAVIS - BESSE  
UNIT 1

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

PERIOD OF RECORD: 7/01/82 TO 9/30/82

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	3	20	36	23	5	0	87
NNE	7	31	33	14	2	0	87
NE	3	27	57	36	1	0	124
ENE	1	41	74	38	10	0	164
E	3	35	80	25	0	0	143
ESE	3	25	42	18	3	1	92
SE	4	20	58	19	0	0	101
SSE	0	13	36	29	1	0	79
S	8	16	41	79	8	1	153
SSW	2	13	57	120	25	0	217
SW	3	19	81	109	21	2	235
WSW	8	21	55	126	18	6	234
W	5	18	31	46	6	2	108
WNW	3	11	42	48	12	3	119
NW	2	13	46	42	15	0	118
NNW	2	12	26	32	9	4	85
VARIABLE	0	0	0	0	0	0	0
TOTAL	57	335	795	804	136	19	2146

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 62

## CONTINUOUS RELEASES

Table 9

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DAVIS - BESSE  
UNIT 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
35-FT WINDS AND DELTA TEMPERATURE (250FT-30FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	1	1
SSW	0	0	0	0	0	2	2
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	1	1
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	1	0	1
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	4	5

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 9 Continued

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DAVIS - BESSE  
UNIT 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	1	0	0	1
SSW	0	0	1	0	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	2	1	0	0	3
W	0	1	0	0	0	0	1
WNW	0	0	0	0	0	0	0
NW	1	0	1	1	0	0	3
NNW	0	1	0	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	2	4	3	0	0	10

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 9 Continued

PAGE 35

DAVIS - BESSE  
UNIT 1

JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
35-FT WINDS AND DELTA TEMPERATURE (250FT-350FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	0	1	0	0	2
NNE	0	0	2	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	3	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	1	0	0	0	1
S	0	0	1	0	0	0	1
SSW	0	0	7	2	0	0	9
SW	0	2	2	2	0	0	6
WSW	0	3	3	1	0	0	7
W	0	2	3	2	0	0	7
WNW	0	1	2	3	0	0	6
NW	0	0	2	2	0	0	4
NNW	0	1	1	1	0	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	10	27	14	0	0	51

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 9 Continued

PAGE 36

DAVIS - BESSE  
UNIT 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
35-FT WINDS AND DELTA TEMPERATURE (250FT-30FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	5	9	7	1	0	22
NNE	0	4	11	2	0	0	17
NE	3	9	18	16	2	0	48
ENE	2	14	35	20	0	0	71
E	2	14	46	21	0	0	83
ESE	2	9	20	14	0	0	45
SE	1	11	16	6	0	0	34
SSE	1	17	21	4	0	0	43
S	1	11	27	18	4	2	63
SSW	0	11	61	64	10	1	147
SW	0	15	41	50	13	12	131
WSW	2	14	66	40	36	11	169
W	1	4	30	65	2	0	102
WNW	1	4	27	33	2	0	67
NW	0	10	15	20	0	0	45
NNW	1	7	26	24	6	0	64
VARIABLE	0	0	0	0	0	0	0
TOTAL	17	159	469	404	76	26	1151

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 9 Continued

PAGE 37

D A V I S - B E S S E  
U N I T 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	2	2	0	0	0	4
NNE	0	6	3	0	0	0	9
NE	0	5	8	1	0	0	14
ENE	1	13	13	4	0	0	31
E	0	21	18	0	0	0	39
ESE	3	20	7	0	0	0	30
SE	9	24	8	0	0	0	41
SSE	7	22	23	1	0	0	53
S	6	66	48	16	0	0	136
SSW	6	40	72	32	12	2	164
SW	0	16	24	6	4	0	50
WSW	0	7	18	10	2	0	37
W	0	17	14	1	2	0	34
WNW	1	9	12	1	0	0	23
NW	0	8	8	5	1	0	22
NNW	0	6	7	2	0	0	15
VARIABLE	0	0	0	0	0	0	0
TOTAL	33	282	285	79	21	2	702

PERIODS OF CALM (HOURS): 0



## CONTINUOUS RELEASES

Table 9 Continued

PAGE 38

D A V I S - B E S S E  
U N I T 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	1	1	0	0	0	2
NE	1	0	0	0	0	0	1
ENE	1	1	0	0	0	0	2
E	2	14	1	0	0	0	17
ESE	3	27	2	0	0	0	32
SE	2	10	0	0	0	0	12
SSE	1	10	1	0	0	0	12
S	3	27	1	0	0	0	31
SSW	2	25	6	0	0	0	33
SW	4	10	0	0	0	0	14
WSW	1	8	3	0	0	0	12
W	0	4	4	0	0	0	8
WNW	1	2	0	0	0	0	3
NW	0	2	1	0	0	0	3
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	21	141	20	0	0	0	182

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 9 Continued

PAGE 39

DAVIS - BESSE  
UNIT 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	1	0	0	0	0	0	1
E	1	0	0	0	0	0	1
ESE	1	6	1	0	0	0	8
SE	1	8	0	0	0	0	9
SSE	2	3	0	0	0	0	5
S	3	11	0	0	0	0	14
SSW	5	14	0	0	0	0	19
SW	2	7	0	0	0	0	9
WSW	4	5	0	0	0	0	9
W	3	1	0	0	0	0	4
WNW	0	0	0	0	0	0	0
NW	1	0	0	0	0	0	1
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	24	55	1	0	0	0	80

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 9 Continued

PAGE 40

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: 10/01/82 TO 12/31/82

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	8	11	8	1	0	28
NNE	0	11	17	2	0	0	30
NE	4	14	26	17	2	0	63
ENE	5	28	48	24	0	0	105
E	5	49	68	21	0	0	143
ESE	9	62	30	14	0	0	115
SE	13	53	24	6	0	0	96
SSE	11	52	46	5	0	0	114
S	13	115	77	35	4	3	247
SSW	13	90	147	98	22	5	375
SW	6	50	67	58	17	12	210
WSW	7	37	92	52	38	11	237
W	4	29	51	68	4	1	157
WNW	3	16	41	37	2	0	99
NW	2	20	27	28	2	0	79
NNW	1	15	34	27	6	0	83
VARIABLE	0	0	0	0	0	0	0
TOTAL	96	649	806	500	98	32	2181

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 27

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: 10/01/82 TO 12/31/82

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	1	1
SSW	0	0	0	0	0	2	2
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	1	1
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	1	1
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	5	5

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 10 Continued

PAGE 42

DAVIS - BESSE  
UNIT 1

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

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	1	1	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	1	1	1	0	3
W	0	1	0	0	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	1	0	2	0	3
NNW	0	1	0	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	2	2	2	4	0	10

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 10 Continued

PAGE 43

D A V I S - B E S S E  
U N I T 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	1	0	0	1
NNE	0	0	2	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	2	0	0	2
ESE	0	0	0	1	0	0	1
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	6	1	0	7
SW	0	0	3	2	2	0	7
WSW	0	3	5	1	0	0	9
W	0	0	1	3	0	0	4
WNW	0	1	2	2	2	0	7
NW	0	0	0	2	2	0	4
NNW	0	2	1	3	0	0	6
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	6	14	24	7	0	51

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 10 Continued

PAGE 44

D A V I S - B E S S E  
U N I T 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	2	9	14	8	2	36
NNE	1	2	12	4	0	0	19
NE	0	5	14	8	7	0	34
ENE	1	6	12	30	21	0	70
E	3	5	18	26	17	2	71
ESE	0	5	12	12	16	0	45
SE	1	4	5	3	1	0	19
SSE	0	2	5	8	2	0	17
S	1	3	11	18	15	5	53
SSW	1	5	20	53	55	15	149
SW	1	2	20	28	28	19	98
WSW	0	5	43	64	34	57	203
W	0	2	18	40	46	8	114
WNW	1	3	10	46	43	2	105
NW	0	2	8	14	15	3	42
NNW	0	2	21	16	27	10	76
VARIABLE	0	0	0	0	0	0	0
TOTAL	11	55	238	389	335	123	1151

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 10 Continued

PAGE 45

DAVIS - BESSE  
UNIT 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	2	1	3	0	0	6
NNE	0	1	6	1	0	0	8
NE	0	1	5	3	0	0	9
ENE	0	2	6	7	1	0	16
E	0	0	6	12	4	0	22
ESE	0	5	17	4	0	0	26
SE	0	6	7	4	1	0	18
SSE	1	4	16	15	7	0	43
S	0	3	16	45	47	22	133
SSW	0	4	16	66	74	33	193
SW	0	8	9	32	7	11	67
WSW	0	2	7	27	18	2	56
W	0	0	3	18	3	3	27
WNW	1	0	6	18	2	0	27
NW	0	0	15	9	7	0	31
NNW	0	0	3	11	3	3	20
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	38	139	275	174	74	702

PERIODS OF CALM (HOURS): 0



## CONTINUOUS RELEASES

Table 10 Continued

PAGE 46

D A V I S - B E S S E  
U N I T 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	1	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	1	1	0	0	0	2
ENE	1	0	0	0	0	0	1
E	1	0	1	2	0	0	4
ESE	0	2	2	16	1	0	21
SE	2	2	3	6	0	0	13
SSE	0	4	11	6	1	0	22
S	0	1	4	12	8	0	25
SSW	0	1	2	12	11	0	26
SW	0	1	1	20	6	0	28
WSW	0	1	4	4	0	0	9
W	1	1	2	6	0	0	10
WNW	0	2	3	4	2	0	11
NW	0	1	2	3	0	0	6
NNW	1	1	1	0	0	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	6	18	38	91	29	0	182

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 10 Continued

PAGE 47

D A V I S - B E S S E  
U N I T 1JOINT FREQUENCY DISTRIBUTION  
WIND SPEED AND DIRECTION BY ATMOSPHERIC STABILITY CLASS  
250-FT WINDS AND DELTA TEMPERATURE (250FT-30FT)

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	2	1	0	0	0	3
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	1	0	0	0	1
SE	0	0	2	1	0	0	3
SSE	0	1	6	6	0	0	13
S	0	1	5	3	3	0	12
SSW	0	0	0	5	2	0	7
SW	0	1	4	11	2	0	18
WSW	0	1	5	3	1	0	10
W	0	1	2	0	0	0	3
WNW	0	0	2	1	0	0	3
NW	0	0	5	0	0	0	5
NNW	0	0	1	1	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	7	34	31	8	0	80

PERIODS OF CALM (HOURS): 0

## CONTINUOUS RELEASES

Table 10 Continued

PAGE 48

DAVIS - BESSE  
UNIT 1

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

PERIOD OF RECORD: 10/01/82 TO 12/31/82

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	4	11	18	8	2	44
NNE	1	3	20	5	0	0	29
NE	0	9	21	11	7	0	48
ENE	2	8	18	37	22	0	87
E	4	5	25	42	21	2	99
ESE	0	12	32	33	17	0	94
SE	3	12	17	19	2	0	53
SSE	1	11	38	35	10	0	95
S	1	8	36	79	73	28	225
SSW	1	10	38	143	144	50	386
SW	1	12	37	93	45	30	218
WSW	0	12	65	100	54	59	290
W	1	5	26	67	49	12	160
WNW	2	6	23	71	49	2	153
NW	0	3	31	28	26	4	92
NNW	1	6	27	31	30	13	108
VARIABLE	0	0	0	0	0	0	0
TOTAL	19	126	465	812	557	202	2181

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 27

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: 7/1/82 to 9/30/82

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: 7/1/82 to 9/30/82

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	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: 7/1/82 to 9/30/82

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	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	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	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: 7/1/82 to 9/30/82

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	0	0	0	0	0
NNE	0	4	0	0	0	0	4
NE	0	2	0	0	0	0	2
ENE	0	0	0	0	0	0	0
E	0	2	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	1	0	0	0	0	0	1
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	1	8	0	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: 7/1/82 to 9/30/82

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	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: 7/1/82 to 9/30/82

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: 7/1/82 to 9/30/82

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: 7/1/82 to 9/30/82

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	4	0	0	0	0	4
NE	0	2	0	0	0	0	2
ENE	0	0	0	0	0	0	0
E	0	2	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	1	0	0	0	0	0	1
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	1	8	1	0	0	0	10

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: 7/1/82 to 9/30/82

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

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: 7/1/82 to 9/30/82

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	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: 7/1/82 to 9/30/82

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	1	0	0	0	1
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	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: 7/1/82 to 9/30/82

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	1	0	0	0	0	1
NNE	0	2	0	0	0	0	2
NE	0	3	0	0	0	0	3
ENE	0	0	0	0	0	0	0
E	0	2	0	0	0	0	2
ESE	1	0	0	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	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	1	8	0	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  
250-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 7/1/82 to 9/30/82

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	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: 7/1/82 to 9/30/82

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: 7/1/82 to 9/30/82

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: 7/1/82 to 9/30/82

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	1	0	0	0	0	1
NNE	0	2	1	0	0	0	3
NE	0	3	0	0	0	0	3
ENE	0	0	0	0	0	0	0
E	0	2	0	0	0	0	2
ESE	1	0	0	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	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	1	8	1	0	0	0	10

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: 10/1/82 to 12/31/82

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: 10/1/82 to 12/31/82

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	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: 10/1/82 to 12/31/82

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	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  
35-FT WINDS AND DELTA TEMPERATURE (250FT-35FT)

PERIOD OF RECORD: 10/1/82 to 12/31/82

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	0	0	0	0	0
NNE	0	0	0	1	0	0	1
NE	0	0	0	0	1	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	1	2	0	0	0	3
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	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	3	0	0	0	3
WNW	0	0	1	2	1	0	4
NW	0	0	0	0	0	0	0
NNW	0	0	1	0	1	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	7	4	3	0	15

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: 10/1/82 to 12/31/82

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	1	0	0	0	1
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	3	0	0	0	3
S	0	1	0	0	0	0	1
SSW	0	1	1	0	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	1	0	0	0	0	1
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	1	0	0	0	1
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	3	7	0	0	0	10

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: 10/1/82 to 12/31/82

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: 10/1/82 to 12/31/82

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: 10/1/82 to 12/31/82

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	0	0	0	0	0
NNE	0	0	1	1	0	0	2
NE	0	0	0	0	1	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	1	2	0	0	0	3
SE	0	0	0	1	0	0	1
SSE	0	0	3	0	0	0	3
S	0	1	0	0	0	0	1
SSW	0	1	1	0	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	1	0	0	0	0	1
W	0	0	3	0	0	0	3
WNW	0	0	1	2	1	0	4
NW	0	0	1	0	0	0	1
NNW	0	0	2	0	1	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	4	14	4	3	0	25

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: 10/1/82 to 12/31/82

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

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: 10/1/82 to 12/31/82

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	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: 10/1/82 to 12/31/82

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	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: 10/1/82 to 12/31/82

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	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	3	0	0	3
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	1	0	0	0	1
WNW	0	0	0	2	0	0	2
NW	0	0	0	1	0	0	1
NNW	0	0	0	1	4	3	8
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	0	1	7	4	3	15

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: 10/1/82 to 12/31/82

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	1	1	0	0	2
NNE	0	0	1	1	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	1	1	0	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	3	0	0	3
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	1	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	3	6	0	0	10

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-33FT)

PERIOD OF RECORD: 10/1/82 to 12/31/82

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: 10/1/82 to 12/31/82

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: 10/1/82 to 12/31/82

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	1	0	0	2
NNE	0	0	1	1	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	1	1	0	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	3	0	0	3
S	0	0	0	0	0	0	0
SSW	0	0	0	3	0	0	3
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	1	0	0	0	1
WNW	0	0	0	2	0	0	2
NW	0	0	0	1	0	0	1
NNW	0	0	0	2	4	3	9
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	4	13	4	3	25

PERIODS OF CALM (HOURS): 0

HOURS OF MISSING DATA: 0

TABLE 15

HOURLY METEOROLOGICAL DATA DURING BATCH RELEASES  
DAVIS-BESSE NUCLEAR POWER STATION  
July 1 - September 30, 1982

<u>YR.</u>	<u>MONTH</u>	<u>DAY</u>	<u>HOUR</u>	<u>35' WIND SPD (MPH)</u>	<u>35' WIND DIRECTION</u>	<u><math>\Delta T</math> 250' - 35' (<math>^{\circ}F</math>)</u>
82	8	11	16	4.5	34 $^{\circ}$	-1.5
82	8	11	17	4.8	48 $^{\circ}$	-1.2
82	8	11	18	4.5	86 $^{\circ}$	-1.1
82	8	11	19	3.7	98 $^{\circ}$	-1.0
82	8	11	20	2.4	139 $^{\circ}$	-0.7
82	8	12	10	8.2	8 $^{\circ}$	-1.8
82	8	12	11	7.4	15 $^{\circ}$	-1.6
82	8	12	12	6.5	32 $^{\circ}$	-1.4
82	8	12	13	6.8	23 $^{\circ}$	-1.4
82	8	12	14	5.8	17 $^{\circ}$	-1.7

## HOURLY METEOROLOGICAL DATA DURING BATCH RELEASES

## DAVIS-BESSE NUCLEAR POWER STATION

October 1 - December 31, 1982

<u>YR</u>	<u>MONTH</u>	<u>DAY</u>	<u>HOUR</u>	<u>35' WIND SPD (MPH)</u>	<u>35' WIND DIRECTION</u>	<u><math>\Delta T</math> 250' - 35' (°F)</u>
82	11	19	19	10.9	180°	0.2
82	11	19	20	13.6	105°	0.2
82	11	19	21	16.6	194°	0.0
82	11	23	11	9.0	274°	-0.8
82	11	23	12	8.7	211°	-0.4
82	11	23	13	5.4	190°	-0.1
82	11	23	14	4.4	192°	-0.4
82	11	23	15	7.3	257°	-0.5
82	11	23	16	14.2	284°	-0.9
82	11	23	17	16.3	284°	-1.1
82	11	23	18	21.7	287°	-1.1
82	11	23	19	19.8	345°	-1.0
82	11	23	20	18.7	35°	-1.0
82	11	23	21	14.8	136°	-1.4
82	11	23	22	14.2	33°	-1.6
82	11	23	23	12.5	343°	-1.6
82	11	23	24	9.7	302°	-1.3
82	11	24	1	9.0	281°	-1.3
82	11	24	2	8.5	268°	-1.4
82	11	26	2	7.4	117°	-0.7
82	11	26	3	7.9	115°	-0.7
82	11	26	4	8.8	117°	-0.8
82	12	16	1	7.9	10°	-0.2
82	12	16	2	9.9	345°	-0.3
82	12	16	3	10.7	308°	-0.4