

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

Supplemental Information

Facility BEAVER VALLEY - UNIT 1 Licensee DUQUESNE LIGHT COMPANY

1. Regulatory Limits

- a. Fission and activation gases: ARTICLE 2.4 - 3
 b. Iodines: ARTICLE 2.4 - 3
 c. Particulates, half-lives >8 days: ARTICLE 2.4 - 3
 d. Liquid effluents: ARTICLE 2.4 - 3

2. Maximum Permissible Concentrations

Provide the MPC's used in determining allowable release rates or concentrations.

- a. Fission and activation gases: 10 CFR 20, APPENDIX B (TABLE II)
 b. Iodines: 10 CFR 20, APPENDIX B (TABLE II)
 c. Particulates, half-lives >8 days: 10 CFR 20, APPENDIX B (TABLE II)
 d. Liquid effluents: 10 CFR 20, APPENDIX B (TABLE II)

3. Average Energy

Provide the average energy (\bar{E}) of the radionuclide mixture in releases of fission and activation gases, if applicable.
 NOT APPLICABLE

4. Measurements and Approximations of Total Radioactivity

Provide the methods used to measure or approximate the total radioactivity in effluents and the methods used to determine radionuclide composition.

- a. Fission and activation gases: GELI GAMMA SPECTROMETRY, LIQUID SCINTILLATION
 b. Iodines: GELI GAMMA SPECTROMETRY
 c. Particulates: GELI GAMMA SPECTROMETRY, LOW BACKGROUND PROPORTIONAL COUNTER
 d. Liquid effluents: GELI GAMMA SPECTROMETRY, LIQUID SCINTILLATION

5. Batch Releases

Provide the following information relating to batch releases of radioactive materials in liquid and gaseous effluents.

a. Liquid	1ST QUARTER	2ND QUARTER
1. Number of batch releases:	37	87
2. Total time period for batch releases:	14199 MINUTES	8955 MINUTES
3. Maximum time period for a batch release:	2007 MINUTES	890 MINUTES
4. Average time period for batch releases:	384 MINUTES	103 MINUTES
5. Minimum time period for a batch release:	55 MINUTES	57 MINUTES
6. Average stream flow during periods of release of effluent into a flowing stream:	54,250 CU. FT./SEC.	
b. Gaseous	1ST QUARTER	2ND QUARTER
1. Number of batch releases:	6	15
2. Total time period for batch releases:	4510 MINUTES	12712 MINUTES
3. Maximum time period for a batch release:	889 MINUTES	1460 MINUTES
4. Average time period for batch releases:	752 MINUTES	847 MINUTES
5. Minimum time period for a batch release:	504 MINUTES	236 MINUTES

6. Abnormal Releases

a. Liquid

1. Number of releases: NONE
 2. Total activity released:

b. Gaseous

1. Number of releases: NONE
 2. Total activity released:

TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1982)

GASEOUS EFFLUENTS—SUMMATION OF ALL RELEASES

	Unit	Quarter 1ST	Quarter 2ND	Est. Total Error, %
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A. Fission & activation gases

1. Total release	Ci	5.83 E-1	6.74 E-2	2.0 E+1
2. Average release rate for period	$\mu\text{Ci}/\text{sec}$	2.15 E 0	8.84 E-2	
3. Percent of Technical specification limit	%	N/A E	N/A E	

B. Iodines

1. Total iodine-131	Ci	2.15 E-4	LLD E	1.5 E+1
2. Average release rate for period	$\mu\text{Ci}/\text{sec}$	7.95 E-4	— E	
3. Percent of technical specification limit	%	N/A E	N/A E	

C. Particulates

1. Particulates with half-lives >8 days	Ci	1.35 E-4	3.44 E-4	2.0 E+1
2. Average release rate for period	$\mu\text{Ci}/\text{sec}$	4.99 E-4	4.51 E-4	
3. Percent of technical specification limit	%	N/A E	N/A E	
4. Gross alpha radioactivity	Ci	2.24 E-7	2.60 E-7	

D. Tritium

1. Total release	Ci	1.44 E-3	1.35 E-2	1.5 E+1
2. Average release rate for period	$\mu\text{Ci}/\text{sec}$	5.32 E-3	1.77 E-2	
3. Percent of technical specification limit	%	N/A E	N/A E	

N/A = NOT APPLICABLE

THE AMOUNT OF TIME (IN SECONDS) USED TO CALCULATE THE RELEASE RATES SPECIFIED IN A.2,
B.2, C.2 AND D.2 ARE "BATCH" DISCHARGE TIMES.

TABLE 1B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)
GASEOUS EFFLUENTS—ELEVATED RELEASE

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter	Quarter	Quarter	Quarter
1. Fission gases		1ST	2ND	1ST	2ND
krypton-85	Ci	4.40 E-3	LLD E	5.16 E-1	5.72 E-2
krypton-85m	Ci	LLD E	LLD E	LLD E	LLD E
krypton-87	Ci	LLD E	LLD E	LLD E	LLD E
krypton-88	Ci	LLD E	LLD E	LLD E	LLD E
xenon-133 ¹	Ci	5.28 E-6	LLD E	3.22 E-3	2.47 E-6
xenon-135	Ci	LLD E	LLD E	LLD E	LLD E
xenon-135m	Ci	LLD E	LLD E	LLD E	LLD E
xenon-138	Ci	LLD E	LLD E	LLD E	LLD E
Others (specify)	Ci	. E	. E	. E	. E
XENON - 131 M	Ci	4.78 E-5	— E	9.15 E-4	2.00 E-5
	Ci	. E	. E	. E	. E
unidentified	Ci	. E	. E	. E	. E
Total for period	Ci	4.45 E-3	— E	5.20 E-1	5.72 E-2

2. Iodines

iodine-131	Ci	1.23 E-6	LLD E	LLD E	LLD E
iodine-133	Ci	LLD E	LLD E	LLD E	LLD E
iodine-135	Ci	LLD E	LLD E	LLD E	LLD E
Total for period	Ci	1.23 E-6	— E	— E	— E

3. Particulates

strontium-89	Ci	LLD E	1.09 E-9	LLD E	LLD E
strontium-90	Ci	7.95 E-8	3.30 E-9	LLD E	LLD E
cesium-134	Ci	LLD E	LLD E	LLD E	LLD E
cesium-137	Ci	1.40 E-8	LLD E	LLD E	LLD E
barium-lanthanum-140	Ci	LLD E	LLD E	LLD E	LLD E
COBALT - 58	Ci	1.09 E-7	8.69 E-7	— E	— E
COBALT - 60	Ci	2.98 E-6	1.82 E-5	— E	— E
MANGANESE - 54	Ci	1.55 E-7	1.28 E-6	— E	— E
unidentified	Ci	. E	. E	. E	. E

LLD = BELOW THE LOWER LIMIT OF DETECTABILITY IN $\mu\text{Ci/cc}$ (TABLE 4)

TABLE 1C

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1982)

GASEOUS EFFLUENTS—GROUND-LEVEL RELEASES

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter	Quarter	Quarter	Quarter
		1st	2ND	1st NO RELEASES	2ND
1. Fission gases					
krypton-85	Ci	5.81 E-2	LLD E	E	LLD E
krypton-85m	Ci	LLD E	LLD E	E	LLD E
krypton-87	Ci	LLD E	LLD E	E	LLD E
krypton-88	Ci	LLD E	LLD E	E	LLD E
xenon-133	Ci	LLD E	LLD E	E	1.02 E-2
xenon-135	Ci	5.56 E-5	LLD E	E	LLD E
xenon-135m	Ci	LLD E	LLD E	E	LLD E
xenon-138	Ci	LLD E	LLD E	E	LLD 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	5.82 E-2	— E	√ E	1.02 E-2
2. Iodines					
iodine-131	Ci	2.14 E-4	LLD E	E	LLD E
iodine-133	Ci	LLD E	LLD E	E	LLD E
iodine-135	Ci	LLD E	LLD E	E	LLD E
Total for period	Ci	2.14 E-4	— E	√ E	— E
3. Particulates					
strontium-89	Ci	1.48 E-7	LLD E	E	LLD E
strontium-90	Ci	3.33 E-7	3.36 E-7	E	LLD E
cesium-134	Ci	LLD E	LLD E	E	LLD E
cesium-137	Ci	1.99 E-5	1.87 E-6	E	LLD E
barium-lanthanum-140	Ci	LLD E	LLD E	E	LLD E
COBALT - 58	Ci	3.35 E-5	2.23 E-4	E	— E
COBALT - 60	Ci	7.78 E-5	8.98 E-5	E	— E
MANGANESE - 54	Ci	— E	8.78 E-6	E	— E
unidentified	Ci	. E	. E	√ E	. E

LLD = BELOW THE LOWER LIMIT OF DETECTABILITY IN $\mu\text{Ci/cc}$ (TABLE 4)

TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)

LIQUID EFFLUENTS--SUMMATION OF ALL RELEASES

	Unit	Quarter		Est. Total Error, %
		1ST	2ND	
A. Fission and activation products				
1. Total release (not including tritium, gases, alpha)	Ci	1.48 E-2	9.21 E-3	2.0 E+1
2. Average diluted concentration during period	$\mu\text{Ci/ml}$	4.87 E-8	3.09 E-8	
3. Percent of applicable limit	%	1.48 E-1	9.21 E-2	
B. Tritium				
1. Total release	Ci	5.16 E+1	2.24 E+1	1.5 E+1
2. Average diluted concentration during period	$\mu\text{Ci/ml}$	1.70 E-4	7.52 E-5	
3. Percent of applicable limit	%	5.67 E 0	2.51 E 0	
C. Dissolved and entrained gases				
1. Total release	Ci	2.75 E-3	5.69 E-3	2.7 E+1
2. Average diluted concentration during period	$\mu\text{Ci/ml}$	9.02 E-9	1.90 E-8	
3. Percent of applicable limit	%	N/A E	N/A E	
D. Gross alpha radioactivity				
1. Total release	Ci	5.15 E-8	LLD E	2.9 E+1
E. Volume of waste released (prior to dilution)				
	liters	6.39 E+5	6.05 E+5	5.0 E 0
F. Volume of dilution water used during period				
	liters	3.04 E+8	2.98 E+8	1.0 E+1

N/A = NOT APPLICABLE

LLD = BELOW THE LOWER LIMIT OF DETECTABILITY IN $\mu\text{Ci/cc}$ (TABLE 4)

A.3 IS BASED ON A LIMIT OF 10 Ci/QUARTER

B.3 IS BASED ON A LIMIT OF 3.00 E-3 $\mu\text{Ci/ML}$

TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)

LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		1ST Quarter	2ND Quarter	1ST Quarter	2ND Quarter
strontium-89	Ci	N/A E	N/A E	1.68 E-6	LLD E
strontium-90	Ci	↓ E	↓ E	LLD E	1.44 E-6
cesium-134	Ci	↓ E	↓ E	5.22 E-4	LLD E
cesium-137	Ci	↓ E	↓ E	1.14 E-3	2.55 E-6
iodine-131	Ci	↓ E	↓ E	1.75 E-4	LLD E
cobalt-58	Ci	↓ E	↓ E	3.53 E-3	5.08 E-3
cobalt-60	Ci	↓ E	↓ E	8.96 E-3	3.55 E-3
iron-59	Ci	↓ E	↓ E	LLD E	2.81 E-6
zinc-65	Ci	↓ E	↓ E	LLD E	LLD E
manganese-54	Ci	↓ E	↓ E	4.05 E-4	1.46 E-4
chromium-51	Ci	↓ E	↓ E	6.28 E-6	8.00 E-6
zirconium-niobium-95	Ci	↓ E	↓ E	5.08 E-6	2.23 E-4
molybdenum-99	Ci	↓ E	↓ E	LLD E	1.21 E-6
technetium-99m	Ci	↓ E	↓ E	LLD E	LLD E
barium-lanthanum-140	Ci	↓ E	↓ E	LLD E	LLD E
cerium-141	Ci	↓ E	↓ E	LLD E	LLD E
Other (specify)	Ci	↓ E	↓ E	. E	. E
NIOBIUM - 97	Ci	↓ E	↓ E	7.00 E-8	— E
COBALT - 57	Ci	↓ E	↓ E	— E	4.32 E-6
SILVER - 110 M	Ci	↓ E	↓ E	— E	1.90 E-4
	Ci	↓ E	↓ E	. E	. E
unidentified	Ci	↓ E	↓ E	. E	. E
Total for period (above)	Ci	↓ E	↓ E	1.48 E-2	9.21 E-3
xenon-133	Ci	↓ E	↓ E	2.63 E-3	LLD E
xenon-135	Ci	↓ E	↓ E	LLD E	LLD E

N/A = NOT APPLICABLE (LIQUIDS NOT DISCHARGED IN A CONTINUOUS MODE)

LLD = BELOW THE LOWER LIMIT OF DETECTABILITY IN $\mu\text{Ci/cc}$ (TABLE 4)

TABLE 3

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

1. Type of waste	Unit	6-month Period	Est. Total Error, %
a. Spent resins, filter sludges, evaporator bottoms, etc.	m ³ Ci	2.40 E+1 3.39 E+2	3.00 E+1
b. Dry compressible waste, contaminated equip, etc.	m ³ Ci	1.55 E+2 1.66 E 0	3.00 E+1
c. Irradiated components, control rods, etc.	m ³ Ci	— E — E	— E
d. Other (describe)	m ³ Ci	. E . E	. E

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

a.	Co-60	%	5.45 E+1
	Co-58	%	2.76 E+1
	Cs-137	%	1.06 E+1
b.	Co-60	%	4.82 E+1
	Co-58	%	3.06 E+1
	Cs-137	%	1.22 E+1
c.		%	. E
		%	. E
		%	. E
d.		%	. E
		%	. E
		%	. E

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
13	TRUCK	BARNWELL, SC
3	TRUCK	RICHLAND, WA

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
NONE	—	—

T A B L E 4
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1982)
 LOWER LIMIT OF DETECTION
 (NOMINAL)

GAS	
Kr-85	2.0 E-10 $\mu\text{Ci/cc}$ (Teledyne Sample)
Kr-85m	6.67 E-9
Kr-87	2.01 E-8
Kr-88	1.73 E-8
Xe-133	4.15 E-8
Xe-135	9.96 E-9
Xe-135m	1.58 E-8
Xe-138	4.10 E-8
I-131	9.60 E-7
I-133	2.17 E-6
I-135	1.16 E-5
Cs-134	1.29 E-8
Cs-137	1.12 E-8
Ba/La-140	2.02 E-8
H-3	1.0 E-6
Gross Alpha	4.9 E-8
Sr-89	1 E-6
Sr-90	6.2 E-6
Xe-133m	9.98 E-8
Xe-131m	1.59 E-8
Mn-54	1.18 E-8
Ce-144	5.43 E-8

} Assume
 1 cc
 Volume

LIQUID	
Cs-134	1.7 E-8 $\mu\text{Ci/cc}$
Cs-137	1.43 E-8
I-131	1.76 E-8
Fe-59	4.62 E-8
Zn-65	8.50 E-8
Mo-99	1.45 E-8
Tc-99m	7.36 E-9
Ba/La-140	6.6 E-8/2.38 E-8
Ce-141	8.56 E-8
Na-24	2.06 E-8
Cr-51	1.48 E-7
Xe-137	7.9 E-8
Xe-135	1.56 E-8
H-3	1 E-6
Gross Alpha	7 E-10
Sr-89	1.3 E-9
Sr-90	3.1 E-9
Co-58	4.4 E-8
Co-60	1.83 E-8
Mn-54	1.39 E-8
Xe-133	5.44 E-8
Zr/Nb-95	3.92 E-8

ASSUME: 1 HR COUNT

BEAVER VALLEY
JOINT FREQUENCY DISTRIBUTION TABLES
FOR
CONTINUOUS RELEASE

FOR
 $\Delta T(150-35FT)$ AND 35-FT WIND

AND
 $\Delta T(500FT-35FT)$ and 500-FT WIND

(JANUARY 1, 1982 - MARCH 31, 1982)

PROGRAM: JFD VERSION: EP

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	0	0	2	2	1	0	0	0	1	0	0	0	0	0	0	0	6
3.51- 7.50	8	2	5	6	5	2	2	4	3	3	3	6	22	14	5	1	91
7.51-12.50	0	0	0	0	0	0	0	0	0	1	5	14	18	4	0	0	42
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	7	2	0	0	0	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	2	7	8	6	2	2	4	4	4	8	27	42	18	5	1	148

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	4
3.51- 7.50	1	2	0	3	4	0	1	0	0	2	0	9	5	5	4	1	37
7.51-12.50	0	0	0	0	0	0	0	0	0	1	3	6	2	2	6	0	20
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	3	0	4	4	0	2	0	0	3	3	21	7	7	10	1	67

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 25.0 FEET
 WIND MEASURED AT: 25.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.75- 3.50	0	2	3	1	1	0	1	0	1	1	0	0	1	0	0	0	11
3.51- 7.50	4	1	0	3	3	1	1	2	2	2	3	11	7	5	8	1	54
7.51-12.50	0	0	0	0	0	0	0	0	2	0	2	2	3	2	0	0	11
12.51-18.50	0	0	0	0	0	0	0	0	0	1	1	4	1	0	0	0	7
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	3	3	4	4	1	2	2	5	4	6	17	12	7	8	1	83

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 25.0 FEET
 WIND MEASURED AT: 25.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
0.75- 3.50	15	38	50	50	16	14	6	9	6	12	6	14	11	27	13	11	298
3.51- 7.50	31	17	10	48	20	0	1	1	6	17	50	61	47	54	76	36	471
7.51-12.50	0	0	0	0	0	0	0	0	1	5	26	77	67	17	5	0	198
12.51-18.50	0	0	0	0	0	0	0	0	0	1	2	40	8	0	0	0	51
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	3	1	0	0	0	4
24.01- 0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	46	55	60	98	36	14	7	10	13	35	84	195	130	98	54	47	1024

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	8	19	36	46	23	8	11	14	13	6	2	6	6	3	3	2	206
3.51- 7.50	2	3	12	23	5	0	2	0	6	18	18	10	9	6	8	3	125
7.51-12.50	0	0	0	0	0	0	0	0	0	1	4	10	14	0	0	0	29
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	22	48	69	28	8	13	14	19	25	24	28	30	9	11	5	366

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	1	3	6	9	10	16	22	41	20	6	1	2	1	0	1	0	139
3.51- 7.50	0	0	0	0	0	0	0	0	9	10	5	2	0	1	0	1	28
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	3	6	9	10	16	22	41	29	16	6	4	1	1	1	1	167

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	1	1	1	5	12	21	61	53	10	4	0	1	1	0	1	0	172
3.51- 7.50	0	0	0	0	0	0	0	0	8	0	1	0	0	0	0	0	9
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	1	5	12	21	61	53	18	4	1	1	1	0	1	0	181

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	26	64	98	114	63	55	102	117	51	29	9	23	20	30	18	13	836
3.51- 7.50	46	25	27	83	37	2	7	7	34	52	80	99	86	85	101	43	815
7.51-12.50	0	0	0	0	0	0	0	0	3	8	40	109	104	25	11	0	300
12.51-18.50	0	0	0	0	0	0	0	0	2	3	59	12	0	0	0	0	76
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	4
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	72	9	125	157	100	62	109	124	88	91	132	293	223	140	130	56	2346

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2036

TOTAL NUMBER OF MISSING OBSERVATIONS: 124

PERCENT DATA RECOVERY FOR THIS PERIOD: 94.3 %

MEAN WIND SPEED FOR THIS PERIOD: 5.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
7.27	3.29	4.08	50.25	17.98	8.20	8.89

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	8	2	7	8	6	2	2	4	4	4	8	27	42	18	5	1	0
B	2	3	0	4	4	0	2	0	0	3	3	21	7	7	10	1	0
C	4	3	3	4	4	1	2	2	5	4	6	17	12	7	8	1	0
D	46	55	60	58	36	14	7	10	13	25	84	195	130	98	94	47	2
E	10	22	48	69	28	8	13	14	15	25	24	28	30	9	11	5	3
F	1	3	6	9	10	16	22	41	29	16	6	4	1	1	1	1	0
G	1	1	1	5	12	21	61	53	18	4	1	1	1	0	1	0	0
TOTAL	72	89	125	197	100	62	109	124	88	91	132	293	223	140	130	56	5

PROGRAM: JFD VERSION: 5P

REAVER VALLEY JFD - ELEVATED CONTAMINANT RELEASE

SITE IDENTIFIER: DLV2

DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
7.51-12.50	2	0	2	3	1	6	0	0	0	0	0	0	0	0	0	0	8
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	2	5	1	6	0	0	0	0	0	0	0	1	0	0	11

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	1	2	4	2	4	0	3	2	4	2	4	1	4	2	2	1	38
3.51- 7.50	15	18	21	20	35	22	16	9	6	14	27	19	16	12	17	21	288
7.51-12.50	36	9	12	39	45	23	20	15	7	19	53	36	46	63	58	44	527
12.51-18.50	10	2	2	19	26	15	0	1	5	10	64	46	91	55	27	4	377
18.51-24.00	0	0	0	0	0	0	0	0	2	2	16	48	57	16	0	0	141
24.00	0	0	0	0	0	0	0	0	0	0	2	37	53	7	0	0	101
TOTAL	62	31	39	60	110	60	41	27	24	49	166	187	267	151	114	70	1472

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	4	3	2	8	3	7	0	2	3	4	0	3	3	1	2	3	48
3.51- 7.50	2	1	6	7	14	12	7	5	4	9	5	10	14	8	2	2	108
7.51-12.50	2	1	5	12	9	8	8	13	7	9	15	22	9	4	4	1	129
12.51-18.50	0	1	4	3	7	2	5	8	6	8	20	5	2	0	0	0	71
18.51-24.00	0	0	0	0	0	1	0	3	5	0	0	3	1	1	0	0	14
224.00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL	8	6	17	30	33	30	20	31	25	30	40	44	29	14	8	6	371

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	5	4	5	2	2	3	3	1	4	0	1	0	0	0	1	1	32
3.51- 7.50	1	8	8	8	8	5	4	8	7	2	2	0	0	4	0	2	67
7.51-12.50	0	0	2	5	1	1	1	2	15	6	3	2	2	2	1	0	43
12.51-18.50	0	0	0	0	0	0	0	0	4	5	3	0	1	0	0	0	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	12	15	15	11	9	8	13	30	13	10	2	3	7	2	3	159

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - ELEVATED CONTINGUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	1	5
3.51- 7.50	0	0	0	0	0	2	1	4	2	2	0	0	0	0	1	0	12
7.51-12.50	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	0	0	3	2	6	3	5	0	0	0	0	1	1	22

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	10	9	12	12	9	11	7	6	11	6	5	4	7	3	5	6	123
3.51- 7.50	19	27	35	37	57	41	28	26	19	27	34	29	30	24	20	25	477
7.51-12.50	40	10	21	59	56	22	31	31	30	37	71	60	57	69	63	45	712
12.51-18.50	10	3	6	22	33	17	5	11	15	23	87	51	94	56	27	4	464
18.51-24.00	0	0	0	0	0	1	0	2	7	2	17	51	58	16	0	0	157
224.00	0	0	0	0	0	0	0	0	0	2	2	18	53	7	0	0	82
TOTAL	78	49	74	130	155	102	71	77	82	97	216	233	299	177	115	80	2035

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBY2
 DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 1.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2035

TOTAL NUMBER OF MISSING OBSERVATIONS: 125

PERCENT DATA RECOVERY FOR THIS PERIOD: 94.2 %

MEAN WIND SPEED FOR THIS PERIOD: 11.4 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	0.00	0.54	72.33	18.23	7.81	1.08

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	WNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	2	0	2	5	1	0	0	0	0	0	0	0	0	1	0	0	0
D	62	31	39	80	110	60	41	27	24	49	166	187	267	155	104	70	0
E	8	6	17	30	33	30	20	31	25	30	40	44	29	14	4	6	0
F	6	12	15	15	11	9	8	13	30	13	10	2	3	7	2	3	0
G	0	0	1	0	0	3	2	6	3	5	0	0	0	0	1	1	0
TOTAL	78	49	74	130	155	102	71	77	82	97	216	233	299	177	115	80	0

BEAVER VALLEY

JOINT FREQUENCY DISTRIBUTION TABLES

FOR

BATCH RELEASES

FIRST QUARTER 1982

PROGRAM: JFD VERSION: 5F

BEAVER VALLEY JFC - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	1	4	1	0	0	0	0	0	0	2	0	0	8
7.51-12.50	0	0	0	3	10	2	3	0	0	0	0	0	0	3	5	0	26
12.51-18.50	0	0	0	0	4	2	0	0	0	0	0	1	3	5	0	0	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	3	15	8	4	0	0	0	0	1	5	10	5	0	51

PROGRAM: JFD VERSICK: 5F

BEAVER VALLEY JFC - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: DLRV2
 DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.76- 3.50	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2
3.51- 7.50	0	0	0	0	4	7	1	1	0	0	0	0	0	2	0	0	15
7.51-12.50	0	0	0	4	11	2	4	1	1	1	1	0	0	3	5	0	33
12.51-18.50	0	0	0	0	4	3	2	4	0	1	0	1	4	5	0	0	24
18.51-24.00	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	3
>24.00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	5	19	13	7	6	1	2	1	1	6	10	5	1	77

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: DLPV2
 DATA PERIOD EXAMINED: 1/ 1/82 - 3/31/82

*** FIRST QUARTER 1982 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 1.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 77

TOTAL NUMBER OF VALID OBSERVATIONS: 77

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 11.3 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

	A	B	C	D	E	F	G
	0.00	0.00	0.00	66.23	33.77	0.00	0.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	3	15	8	4	0	0	0	1	5	10	5	0	0	0
E	0	0	0	2	4	5	3	6	1	2	1	0	1	0	0	1	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	5	19	13	7	6	1	2	1	1	6	10	5	1	0

BEAVER VALLEY

LISTINGS OF METEOROLOGICAL DATA
FOR
PERIODS OF GASEOUS EFFLUENT RELEASES
AT
THE 500-FT LEVEL
(ELEVATED)

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA
500FT-LEVEL BATCH REV C

-----35 FT----- -----150 FT----- -----500 FT-----

YR	MO	DY	HR	WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	AMB.	DEW	DELTA T	DELTA T	RAIN	
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	TEMP	POINT	150-35	500-35	FALL	
				(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(F)	(F)	(F)	(F)	(IN)	
82	1	1	1	2.3	98	70.6 A	5.3	145	49.4 A	15.4	145	11.3 C	37.4	37.1	-0.5 D	-1.0 E	0.00	
82	1	1	2	2.7	357	68.7 A	3.1	165	85.0 A	11.0	164	14.7 C	38.8	38.6	-0.5 D	-1.0 E	0.00	
82	1	1	3	2.7	219	52.1 A	4.4	204	26.0 A	11.3	184	5.1 D	39.7	39.8	-0.3 E	-0.8 E	0.03	
82	1	1	4	2.2	199	36.0 A	4.5	209	14.3 C	11.5	203	7.6 C	40.6	41.0	0.0 E	0.0 E	0.01	
82	1	1	5	4.1	207	15.4 B	6.6	227	13.2 C	12.0	232	9.3 D	41.4	41.5	0.4 E	0.0 E	0.00	
82	1	1	6	6.4	243	17.4 C	9.4	250	11.6 D	14.1	254	9.2 D	42.4	41.0	-0.1 E	-1.5 D	0.00	
82	1	1	7	7.1	276	20.2 B	13.7	280	8.8 D	19.6	276	5.6 E	40.2	38.4	0.2 E	-1.3 D	0.00	
82	1	1	8	7.7	267	17.2 C	13.6	273	8.2 C	18.4	270	5.7 E	39.0	34.2	0.3 E	-1.0 E	0.00	
82	1	1	9	8.5	274	20.8 B	15.2	277	11.4 D	20.4	276	8.2 C	37.0	31.0	-0.3 E	-1.4 D	0.00	
82	1	1	10	7.4	275	20.7 B	12.4	279	12.1 D	17.0	276	8.2 D	34.3	27.5	-0.3 E	-2.0 D	0.00	
82	1	1	11	7.0	269	17.6 B	11.8	275	12.3 D	15.3	278	8.6 D	35.6	26.9	-1.0 C	-2.7 D	0.00	
82	1	1	12	5.7	275	21.2 E	12.3	279	9.0 D	15.2	281	7.0 E	35.2	26.4	-0.9 D	-2.7 D	0.00	
82	1	1	13	7.1	285	22.7 A	13.3	286	11.9 C	17.8	285	7.2 E	34.2	26.5	-0.8 D	-2.6 D	0.00	
82	1	1	14	7.3	304	21.9 B	14.1	298	8.8 D	18.2	292	4.8 E	33.0	25.3	-0.8 D	-2.7 D	0.00	
82	1	1	15	7.4	288	22.9 A	13.5	287	12.0 D	17.5	285	8.4 D	32.7	22.9	-0.8 D	-2.7 D	0.00	
82	1	1	16	6.4	292	20.1 C	11.2	290	10.5 D	14.6	288	7.3 E	32.6	20.9	-0.7 D	-2.6 D	0.00	
82	1	1	17	4.9	296	22.1 A	9.1	292	10.8 D	11.4	296	8.2 C	32.3	20.8	-0.6 D	-2.4 D	0.00	
82	1	1	18	5.7	284	20.1 B	10.9	284	9.4 D	14.0	285	6.8 E	31.5	20.3	-0.6 C	-2.4 D	0.00	
82	1	1	19	5.2	279	20.5 B	9.0	281	10.1 D	12.2	283	6.9 E	30.8	19.3	-0.6 D	-2.4 D	0.00	
82	1	1	20	4.6	324	16.7 C	7.6	311	10.9 D	11.5	306	6.6 E	29.9	17.8	-0.5 D	-2.3 D	0.00	
82	1	1	21	4.8	322	20.4 B	7.0	315	12.8 C	12.0	310	6.9 E	29.3	17.7	-0.6 D	-2.4 D	0.00	
82	1	1	22	4.2	319	22.9 A	6.4	314	14.8 C	10.1	318	11.2 C	28.6	17.1	-0.6 C	-2.5 C	0.00	
82	1	1	23	4.2	331	23.5 A	6.5	319	18.7 B	9.2	317	12.9 C	27.8	16.7	-0.6 D	-2.5 D	0.00	
82	1	1	24	3.6	305	25.7 A	6.8	298	11.6 D	9.6	296	7.0 E	27.0	16.7	-0.5 D	-2.3 D	0.00	
82	1	2	1	3.3	291	19.8 B	5.4	288	8.8 D	7.1	286	8.3 D	26.2	17.6	-0.6 D	-2.4 D	0.00	
82	1	2	2	3.6	283	16.3 C	5.8	288	5.6 D	7.2	285	7.2 E	26.2	18.0	-0.7 D	-2.5 D	0.00	
82	1	2	3	3.9	296	15.4 C	6.9	298	5.4 E	7.8	304	9.5 D	26.1	18.3	-0.8 D	-2.3 D	0.00	
82	1	2	6	1.6	150	25.2 A	2.2	115	37.2 A	1.1	336	33.5 A	21.5	18.2	1.0 F	0.3 E	0.00	
82	1	2	7	1.5	136	14.3 C	2.3	81	34.4 A	3.5	76	14.5 C	20.0	17.1	1.5 F	1.5 E	0.00	
82	1	2	8	1.5	112	28.8 A	2.6	72	15.3 C	7.7	74	3.3 F	20.0	16.9	1.5 F	1.3 E	0.00	
82	1	2	9	2.2	94	31.3 A	4.5	86	10.8 D	8.8	77	5.4 E	23.7	16.3	-0.3 E	-1.8 D	0.00	
82	1	2	10	3.7	80	32.4 A	6.7	81	11.8 D	8.2	78	8.0 C	26.6	15.6	-1.1 B	-3.0 D	0.00	
82	1	2	11	3.7	68	37.2 A	6.5	73	15.6 C	8.3	74	11.9 D	29.2	16.3	-1.3 A	-3.4 D	0.00	
82	1	2	12	3.8	90	40.7 A	6.8	88	17.5 B	6.7	100	14.5 C	999.9	15.4	999.9	-	-3.4 D	0.00
82	1	2	13	4.5	99	30.4 A	8.0	96	14.4 C	9.0	102	11.4 D	34.4	14.0	-1.7 A	-3.8 D	0.00	
82	1	2	14	4.3	99	34.2 A	7.4	92	13.1 C	8.8	97	10.0 E	35.9	13.2	-1.4 A	-3.4 D	0.00	
82	1	2	15	5.3	88	23.3 A	10.5	85	10.5 D	11.3	92	7.4 E	36.7	12.9	-1.2 A	-3.1 D	0.00	
82	1	2	16	4.8	84	23.3 A	9.5	82	10.9 D	11.9	96	7.5 C	37.0	11.8	-0.8 D	-2.7 D	0.00	
82	1	2	17	4.3	78	27.1 A	8.9	81	11.3 D	11.8	98	6.0 E	36.4	12.2	-0.5 D	-2.1 D	0.00	
82	1	2	18	4.9	67	24.7 A	10.8	75	9.2 D	13.4	96	5.5 E	36.5	12.2	-0.2 E	-1.8 D	0.00	
82	1	2	19	5.2	70	20.3 B	11.1	74	9.7 C	14.1	94	6.0 E	37.5	11.4	-0.3 E	-1.8 D	0.00	
82	1	2	20	4.7	71	27.6 A	11.0	73	9.7 D	14.3	94	6.5 E	37.8	6.3	-0.3 E	-1.9 D	0.00	
82	1	2	21	4.0	66	33.0 A	9.1	74	11.7 D	12.7	101	6.4 E	37.2	8.7	-0.2 E	-1.7 D	0.00	
82	1	2	22	3.9	62	31.4 A	8.4	74	11.5 D	12.6	105	7.5 D	37.3	9.8	-0.3 E	-1.8 D	0.00	
82	1	2	23	3.4	100	56.1 A	6.3	111	40.4 A	12.1	124	16.5 C	38.0	9.5	-0.3 E	-1.7 D	0.00	
82	1	2	24	4.2	52	26.5 A	7.6	73	14.6 C	10.8	112	9.5 D	38.5	10.3	-0.4 D	-2.0 D	0.00	
82	1	3	1	4.1	65	34.8 A	7.2	86	23.9 A	14.0	120	11.3 D	39.5	12.1	-0.3 E	-1.8 D	0.00	
82	1	3	2	3.2	43	58.4 A	4.9	93	35.2 A	11.6	130	15.8 C	41.1	12.4	-0.4 C	-2.0 C	0.00	

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA
500FT-LEVEL BATCH REVC

-----35 FT----- 150 FT----- 500 FT-----

YR	MO	DY	HR	WIND			WIND			WIND			AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T		RAIN FALL (IN)
				SPEED (MPH)	DIR (DEG)	SC (DEG)	SPEED (MPH)	DIR (DEG)	SC (DEG)	SPEED (MPH)	DIR (DEG)	SC (DEG)			150-35 (F)	500-35 (F)	
82	1	3	3	1.6	149	39.9 A	2.2	178	50.5 A	7.2	163	16.1 C	35.5	18.7	0.8 E	-0.8 E	0.00
82	1	3	4	1.9	85	24.6 A	4.2	87	13.5 C	9.6	132	6.5 E	35.7	30.8	2.0 F	1.0 E	0.00
82	1	3	6	3.0	54	24.4 A	4.2	79	16.3 C	7.6	125	13.1 C	35.2	32.3	-0.5 D	-2.2 D	0.00
82	1	3	7	2.2	45	29.1 A	3.5	63	19.8 B	6.7	130	12.9 C	34.9	34.1	-0.5 D	-1.8 D	0.00
82	1	3	8	1.9	38	25.1 A	3.8	58	13.8 C	6.3	116	7.6 C	35.0	35.3	-0.4 D	-1.7 D	0.00
82	1	3	9	1.8	39	21.6 E	3.8	58	13.0 C	6.5	116	8.3 C	35.6	35.8	-0.4 D	-1.8 C	0.00
82	1	3	10	2.1	38	26.5 A	3.3	57	17.5 B	6.2	115	8.8 C	36.7	36.6	-0.5 D	-2.0 D	0.00
82	1	3	11	2.3	30	18.0 B	3.6	49	14.2 C	5.3	114	8.0 D	37.5	37.5	-0.4 D	-1.7 D	0.00
82	1	3	12	2.4	26	19.5 B	3.7	45	14.7 C	5.0	112	8.6 D	37.8	38.2	-0.2 E	-1.1 E	0.00
82	1	3	13	2.8	29	21.2 B	4.2	43	16.3 C	5.3	110	10.0 D	38.5	38.9	-0.2 E	-1.1 E	0.00
82	1	3	14	2.9	23	14.4 C	4.4	42	9.8 D	5.0	104	8.9 C	39.0	39.4	-0.2 E	-0.9 E	0.00
82	1	3	15	2.6	32	27.1 A	5.0	35	11.0 D	5.5	92	8.8 C	39.6	40.0	-0.3 E	-1.0 E	0.00
82	1	3	16	2.8	26	23.7 A	4.7	49	16.4 C	6.4	90	6.3 E	40.0	40.4	-0.2 E	-0.9 C	0.00
82	1	3	17	2.6	22	16.5 C	4.0	62	16.2 C	7.0	92	4.9 E	40.2	40.9	0.1 E	-0.6 E	0.00
82	1	3	18	2.4	57	26.5 A	6.3	62	11.0 C	9.1	81	5.6 E	40.5	41.1	-0.2 E	-1.0 E	0.00
82	1	3	19	2.9	64	25.2 A	7.4	76	5.3 D	11.0	92	3.7 F	41.3	41.3	-0.4 D	-1.3 D	0.00
82	1	3	20	3.4	63	32.2 A	7.5	69	10.7 D	10.9	85	6.1 E	41.6	40.4	-0.4 D	-2.1 D	0.00
82	1	3	21	3.6	59	29.1 A	7.8	67	12.3 D	11.1	85	6.1 E	41.6	39.9	-0.4 D	-2.1 D	0.00
82	1	3	22	4.6	64	24.9 A	9.6	68	12.1 D	11.9	91	6.6 E	41.6	39.3	-0.4 D	-2.4 D	0.00
82	1	3	23	4.3	60	25.9 A	9.5	67	10.3 D	10.8	94	7.7 D	41.2	38.2	-0.4 D	-2.4 D	0.01
82	1	3	24	4.4	47	23.8 A	8.5	60	12.8 C	9.9	95	9.3 D	39.9	38.7	-0.4 D	-1.7 D	0.06
82	1	4	1	4.4	54	23.8 A	9.3	70	11.6 D	13.7	107	8.2 D	39.7	39.7	-0.4 D	-1.0 E	0.12
82	1	4	2	5.7	86	26.2 A	11.3	94	13.1 C	21.7	115	5.7 E	41.0	41.3	-0.2 E	-0.7 E	0.07
82	1	4	3	4.5	56	43.9 A	7.7	85	21.1 B	16.5	124	12.6 C	42.4	42.6	-0.2 E	-0.5 E	0.00
82	1	4	4	4.2	54	52.6 A	6.1	117	42.4 A	17.3	138	11.8 C	44.7	44.8	0.3 E	0.0 E	0.00
82	1	4	5	3.1	58	51.0 A	4.6	114	33.9 A	16.3	145	8.7 D	47.3	47.4	-0.1 E	0.5 E	0.00
82	1	4	6	3.6	45	24.1 A	5.5	92	24.4 A	14.4	152	7.5 D	48.8	49.1	0.6 E	2.5 E	0.00
82	1	4	7	2.8	95	46.2 A	5.1	146	30.6 A	16.0	163	7.5 C	52.0	51.7	1.1 F	1.5 E	0.00
82	1	4	8	99.9	999	99.9 -	99.9	999	99.9 -	17.5	155	99.9 -	99.9	999.9	999.9 -	2.8 E	9.99

BEAVER VALLEY
JOINT FREQUENCY DISTRIBUTION TABLES
FOR
CONTINUOUS RELEASE

FOR

$\Delta T(150-35\text{FT})$ AND 35-FT WIND

AND

$\Delta T(500\text{FT}-35\text{FT})$ AND 500-FT WIND

(APRIL 1, 1982 - JUNE 30, 1982)

PROGRAM: JFD VERSION: BF

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLVPT

DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	8	2	3	2	1	1	2	5	9	4	6	15	20	8	6	10	102
3.51- 7.50	24	20	8	5	5	7	2	2	12	19	26	46	28	21	30	25	280
7.51-12.50	0	2	0	0	0	0	0	0	1	10	10	10	12	13	10	3	71
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	6	3	0	0	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01-29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	32	24	11	7	10	4	4	7	22	33	42	71	66	45	46	38	462

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	1	1	0	2	1	1	1	0	3	1	1	0	2	4	3	2	23
3.51- 7.50	3	0	0	1	1	0	0	0	3	1	5	4	3	6	1	1	29
7.51-12.50	0	0	0	0	0	0	0	0	1	0	1	2	1	0	1	0	6
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01-29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	1	0	3	2	1	1	0	7	2	7	6	6	12	5	3	60

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLB02

DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	3	2	2	1	0	0	0	1	2	3	3	3	1	3	1	1	26
3.51- 7.50	2	1	0	0	0	0	0	0	0	3	7	5	3	5	1	6	33
7.51-12.50	1	0	0	0	0	0	0	0	1	0	6	3	3	0	1	0	15
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01-30.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	3	2	1	0	0	0	1	3	6	16	11	9	8	3	7	76

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0.76- 3.50	18	16	15	13	13	9	3	4	12	15	14	19	24	22	22	13	232
3.51- 7.50	20	5	2	11	1	2	0	1	7	18	22	25	17	30	42	18	221
7.51-12.50	0	0	0	0	0	0	0	0	1	5	11	10	11	4	6	0	48
12.51-18.50	0	0	0	0	0	0	0	0	0	0	3	11	6	0	0	0	20
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
24.01-30.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	38	21	17	24	14	11	3	5	20	38	50	68	58	56	70	31	525

PROGRAM: JFC VERSION: EP

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV
DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	9	20	21	26	22	15	22	26	26	23	11	8	12	11	16	23	291
3.51- 7.50	3	3	1	1	5	3	3	0	5	12	17	6	8	7	2	4	80
7.51-12.50	0	0	0	0	0	0	0	0	0	3	5	0	1	0	0	0	9
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12	23	22	27	27	18	25	26	31	38	33	14	21	18	18	27	380

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0.76- 3.50	1	1	5	5	20	30	71	43	30	5	7	2	0	4	0	2	226
3.51- 7.50	1	1	0	0	0	0	0	0	2	11	0	1	0	0	0	0	16
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	2	5	5	20	30	71	43	32	16	7	3	0	4	0	2	243

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLVRS
 DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
0.76- 3.50	0	0	3	4	8	35	175	101	15	4	3	0	1	0	0	0	349
3.51- 7.50	0	0	0	0	0	0	0	0	5	1	1	0	0	0	0	0	7
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01-30.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	3	4	8	35	175	101	20	5	4	0	1	0	0	0	358

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	4
0.76- 3.50	40	42	49	53	65	91	274	180	97	55	45	47	60	52	58	51	1249
3.51- 7.50	53	30	11	18	16	8	5	3	34	65	78	87	59	69	76	54	666
7.51-12.50	1	2	0	0	0	0	0	0	4	18	33	25	28	17	18	3	149
12.51-18.50	0	0	0	0	0	0	0	0	0	0	3	11	14	5	0	0	33
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
24.01-30.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	94	74	60	71	81	99	279	183	135	138	159	173	161	143	142	108	2104

PROGRAM: JFD VERSION: 5F

BEAVER VALLEY JFC - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLEV1
DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2104

TOTAL NUMBER OF MISSING OBSERVATIONS: 80

PERCENT DATA RECOVERY FOR THIS PERIOD: 96.3 %

MEAN WIND SPEED FOR THIS PERIOD: 3.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

	A	B	C	D	E	F	G
	21.96	2.85	3.61	24.95	18.06	11.55	17.02

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	32	24	11	7	10	4	4	7	22	33	42	71	66	45	46	38	0
B	4	1	0	3	2	1	1	0	7	2	7	6	6	12	5	3	0
C	6	3	2	1	0	0	0	1	3	6	16	11	9	8	3	7	0
D	78	21	17	24	14	11	3	5	20	38	50	68	58	56	70	31	1
F	12	23	22	27	27	18	25	26	31	38	33	14	21	18	18	27	0
F	2	2	5	5	20	30	71	43	32	16	7	3	0	4	0	2	1
G	0	0	3	4	8	35	175	101	20	5	4	0	1	0	0	0	2
TOTAL	94	74	60	71	61	99	279	183	135	138	159	173	161	143	142	108	4

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLV2

DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
7.51-12.50	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	3
12.51-18.50	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	2	0	1	0	1	0	1	0	0	1	0	0	0	7

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLBVS

DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.75- 3.50	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2
3.51- 7.50	0	1	0	1	0	1	0	3	1	2	0	3	4	1	0	1	18
7.51-12.50	2	1	1	4	4	3	0	0	1	0	0	1	2	3	0	2	24
12.51-18.50	2	2	2	0	1	0	0	0	0	3	1	0	7	5	2	0	29
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
≥24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	4	3	5	5	4	0	3	2	5	2	4	14	16	2	3	76

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.75- 3.50	1	3	6	12	7	4	9	3	5	6	9	10	15	10	7	2	109
3.51- 7.50	18	11	9	14	13	5	11	17	19	26	20	30	27	17	25	22	284
7.51-12.50	40	9	10	15	15	3	2	6	16	36	49	35	13	27	54	41	371
12.51-18.50	10	7	3	9	4	2	1	1	7	18	27	14	30	37	42	10	222
18.51-24.00	0	0	1	0	0	0	2	1	1	9	8	3	2	5	7	0	39
≥24.00	0	0	0	0	0	0	0	0	0	1	1	10	27	17	3	0	59
TOTAL	69	30	29	50	39	14	25	28	48	96	114	102	114	113	138	75	1084

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0.76- 3.50	3	1	8	14	7	8	12	5	7	6	4	8	13	3	5	2	110
3.51- 7.50	11	2	4	12	15	6	12	6	9	11	24	22	22	19	11	8	194
7.51-12.50	10	2	2	5	5	1	10	5	11	5	22	15	16	6	7	6	128
12.51-18.50	9	1	1	1	0	1	9	4	5	1	12	8	1	3	3	1	60
18.51-24.00	0	0	0	0	0	0	6	0	0	1	0	1	0	0	0	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	33	6	15	32	27	16	45	26	32	24	62	54	52	31	26	17	503

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0.76- 3.50	4	7	9	8	9	5	5	6	7	7	10	4	8	5	14	6	114
3.51- 7.50	10	12	16	10	5	3	6	3	4	9	16	7	10	13	11	5	140
7.51-12.50	5	2	4	5	1	1	1	2	0	2	8	13	4	1	0	3	53
12.51-18.50	3	1	3	0	1	0	0	0	0	0	2	0	0	1	0	0	11
18.51-24.00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	22	22	32	23	16	10	12	12	11	18	36	24	22	20	25	14	320

PROGRAM: JFD VERSION: 5F

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLRV2
DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	0	2	4	2	0	1	1	3	0	0	0	1	2	16
3.51- 7.50	0	0	3	2	3	1	6	3	0	3	15	5	0	0	0	0	41
7.51-12.50	0	0	0	1	6	0	4	2	0	2	1	1	0	0	0	0	11
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	3	3	5	5	12	5	1	6	19	6	0	0	1	2	68

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
0.76- 3.50	8	11	23	34	25	21	28	18	20	20	27	22	37	18	27	12	351
3.51- 7.50	39	26	32	39	36	17	35	32	33	52	75	67	63	50	47	36	679
7.51-12.50	57	19	17	32	25	8	17	17	28	45	80	66	35	37	61	52	591
12.51-18.50	24	11	10	10	6	3	10	5	12	22	42	22	39	50	47	11	324
18.51-24.00	0	0	1	0	0	1	8	1	1	10	8	4	2	8	7	0	51
24.00	0	0	0	0	0	0	0	0	0	1	1	10	27	17	3	0	61
TOTAL	128	62	83	115	92	50	98	75	94	150	233	191	203	180	192	111	2059

PROGRAM: JFD VERSION: 5F

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBVS
 DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2059

TOTAL NUMBER OF MISSING OBSERVATIONS: 125

PERCENT DATA RECOVERY FOR THIS PERIOD: 94.3 %

MEAN WIND SPEED FOR THIS PERIOD: 8.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.05	0.34	3.69	52.65	24.43	15.54	3.30

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
B	0	0	1	2	0	1	0	1	0	1	0	0	1	0	0	0	0
C	4	4	3	5	5	4	0	3	2	5	2	4	14	16	2	3	0
D	69	30	29	50	39	14	25	28	48	56	114	102	114	113	138	75	0
E	33	6	15	32	27	16	49	26	32	24	62	54	52	31	26	17	1
F	22	22	32	23	16	10	12	12	11	18	36	24	22	20	25	14	1
G	0	0	3	3	5	5	12	5	1	6	19	6	0	0	1	2	0
TOTAL	128	62	83	115	92	50	58	75	54	150	233	191	203	180	192	111	2

BEAVER VALLEY

JOINT FREQUENCY DISTRIBUTION TABLES

FOR

BATCH RELEASES

SECOND QUARTER 1982

PROGRAM: JFD VERSION: SF

REAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	9
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	3	11

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

PROGRAM: JFC VERSION: 2F

BEAVER VALLEY JFC - GROUND LEVEL BATCH RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.51	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	2	6
3.51- 7.50	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-17.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01- 29.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	0	0	0	0	0	0	0	0	0	0	2	1	1	0	3	10

PROGRAM: JFD VERSION: 5F

BEAVER VALLEY JFC - GROUND LEVEL BATCH RELEASE
 SITE IDENTIFIER: DLRV2
 DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
3.51- 7.50	0	1	0	0	0	0	0	0	0	0	0	1	2	0	0	1	3
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01-30.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	2	0	0	0	0	0	0	0	0	0	1	3	0	0	2	8

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
0.76- 3.50	0	0	0	0	1	0	3	0	0	0	0	0	0	1	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.01-30.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	0	3	0	0	0	0	0	0	1	0	0	5

PROGRAM: JFD VERSION: EV

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET
WIND MEASURED AT: 35.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	1	2	2	0	1	0	11	5	0	0	0	2	2	1	0	3	30
3.51- 7.50	7	2	1	0	0	0	0	0	0	0	0	1	2	2	0	5	20
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	4	3	0	1	0	11	5	0	0	0	3	4	3	0	8	50

PROGRAM: JFD VERSION: 5F

REAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 0.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 51

TOTAL NUMBER OF VALID OBSERVATIONS: 50

TOTAL NUMBER OF MISSING OBSERVATIONS: 1

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.0 %

MEAN WIND SPEED FOR THIS PERIOD: 3.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
22.00	2.00	4.00	20.00	16.00	10.00	26.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
C	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	3	0	0	0	0	0	0	0	0	0	0	2	1	1	0	3	0
E	0	2	0	0	0	0	0	0	0	0	0	1	3	0	0	2	0
F	0	0	0	0	1	0	3	0	0	0	0	0	0	1	0	0	0
G	0	0	0	0	0	0	8	5	0	0	0	0	0	0	0	0	0
TOTAL	8	4	3	0	1	0	11	5	0	0	0	3	4	3	0	8	0

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE

SITE IDENTIFIER: DLRV2

DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	2	0	1	0	1	1	1	0	0	6
7.51-12.50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	0	0	2	0	1	0	1	1	1	0	0	7

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	2	0	1	0	1	0	2	0	1	0	3	0	1	0	11
3.51- 7.50	1	0	4	5	1	0	1	6	2	6	2	3	5	6	3	1	46
7.51-12.50	2	0	1	10	3	0	0	0	3	2	0	1	0	2	1	3	28
12.51-18.50	0	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	5
18.51-24.00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
224.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	0	8	18	5	0	2	6	7	8	3	4	8	10	5	4	91

PROGRAM: JFC VERSION: 5F

BEAVER VALLEY JFC - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLGV2
DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	2	0	0	2	2	1	5	2	1	0	1	0	0	0	0	1	17
3.51- 7.50	0	0	1	5	0	0	0	0	2	0	0	6	2	2	4	1	23
7.51-12.50	3	0	0	2	2	0	2	0	1	0	0	0	5	2	2	1	17
12.51-18.50	0	0	1	1	0	0	0	0	0	0	0	2	0	0	1	0	5
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	2	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0
TOTAL	2	0	2	10	4	1	7	2	4	0	1	8	7	4	7	3	62

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
WIND MEASURED AT: 500.0 FEET
WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	1	0	1	1	1	1	0	1	0	0	0	0	0	1	0	0	7
3.51- 7.50	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0	4
7.51-12.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	1	1	2	1	0	4	0	0	0	0	1	3	0	0	14

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: BLEV2
 DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.76- 3.50	3	0	3	3	4	2	6	3	3	0	2	0	3	1	1	1	35
3.51- 7.50	1	0	5	10	2	0	1	8	4	7	2	10	9	11	7	2	79
7.51-12.50	3	0	1	13	5	0	2	3	4	2	0	1	5	4	3	4	50
12.51-18.50	0	0	1	4	0	0	0	0	0	0	0	2	0	2	1	0	10
18.51-24.00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7	0	11	30	11	2	9	14	11	5	4	13	17	18	12	7	175

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFC - ELEVATED PATCH RELEASE
 SITE IDENTIFIER: DLBVC
 DATA PERIOD EXAMINED: 4/ 1/82 - 6/30/82

*** SECOND QUARTER 1982 ***

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 1.75 MPH

TOTAL NUMBER OF OBSERVATIONS: 175

TOTAL NUMBER OF VALID OBSERVATIONS: 175

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 6.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	0.57	4.00	52.00	25.43	8.00	0.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
C	1	0	0	0	0	0	0	2	0	1	0	1	1	1	0	0	0
D	3	0	8	18	5	0	2	6	7	8	3	4	8	10	5	4	0
E	2	0	2	10	4	1	7	2	4	0	1	8	7	4	7	3	0
F	1	0	1	1	2	1	0	4	0	0	0	0	1	3	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7	0	11	30	11	2	9	14	11	9	4	13	17	18	12	7	0

BEAVER VALLEY

LISTINGS OF METEOROLOGICAL DATA

FOR

PERIODS OF GASEOUS EFFLUENT RELEASES

AT

THE 150-FT LEVEL

(GROUND-LEVEL)

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA
150FT-LEVEL BATCH REVC

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	AMB.	DEW	DELTA T	DELTA T	RAIN		
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR				DEV	TEMP
				(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(F)	(F)	150-35	500-35	FALL		
				SC	SC	SC	SC	SC	SC	SC	SC	SC	35F	35F	(F)	SC (F)	SC (IN)		
82	5	13	24	1.5	145	99.9	-	1.5	130	99.9	-	6.5	6E	99.9	-	59.5	57.5		
82	5	14	1	1.5	155	99.9	-	2.5	205	99.9	-	3.5	6E	99.9	-	56.0	56.0	3.2 G 8.3 F 0.00	
82	5	14	2	1.5	130	99.9	-	1.5	285	99.9	-	3.5	6E	99.9	-	58.0	56.0	3.6 G 8.5 F 0.00	
82	5	14	3	1.5	135	99.9	-	2.0	10	99.9	-	3.5	6E	99.9	-	56.0	55.5	3.1 G 8.0 F 0.00	
82	5	14	4	1.5	125	99.9	-	2.0	360	99.9	-	3.5	6E	99.9	-	54.5	54.5	2.5 F 7.9 F 0.00	
82	5	14	5	1.5	140	99.9	-	1.5	210	99.9	-	6.5	5E	99.9	-	53.5	53.5	2.5 F 7.0 F 0.00	
82	5	14	6	1.0	100	99.9	-	1.0	355	99.9	-	7.5	6E	99.9	-	53.0	53.0	2.5 F 6.9 F 0.00	
82	5	14	7	2.0	30	99.9	-	2.5	40	99.9	-	4.5	8E	99.9	-	53.5	53.5	1.5 F 5.0 F 0.00	
82	5	14	8	4.0	15	99.9	-	5.5	25	99.9	-	5.0	8E	99.9	-	58.5	55.5	0.2 E 1.5 E 0.00	
82	5	14	9	4.5	345	99.9	-	4.5	355	99.9	-	3.0	21E	99.9	-	63.0	55.0	0.7 E -1.3 D 0.00	
82	5	14	10	4.5	350	99.9	-	4.5	50	99.9	-	4.5	2E	99.9	-	67.0	54.0	0.8 E -1.0 E 0.00	
82	5	14	11	3.5	20	99.9	-	4.0	45	99.9	-	4.5	4E	99.9	-	71.0	53.0	-0.9 D -2.1 D 0.00	
82	5	14	12	5.0	355	99.9	-	6.5	20	99.9	-	6.0	1E	99.9	-	75.0	50.0	-1.0 C -3.1 D 0.00	
82	5	14	12	4.0	300	99.9	-	4.0	305	99.9	-	5.0	35E	99.9	-	78.0	49.0	-1.4 A -3.6 D 0.00	
82	5	14	14	5.5	345	99.9	-	8.5	5	99.9	-	10.0	36E	99.9	-	79.5	47.5	-1.1 B -3.1 D 0.00	
82	5	14	15	5.0	355	99.9	-	8.5	10	99.9	-	10.0	E	99.9	-	81.0	48.0	-1.7 A -4.3 C 0.00	
82	5	14	16	5.5	345	99.9	-	8.5	360	99.9	-	10.0	36E	99.9	-	82.0	47.0	-1.7 A -3.8 C 0.00	
82	5	14	17	5.0	360	99.9	-	8.5	10	99.9	-	10.0	E	99.9	-	82.5	47.0	-1.5 A -3.6 D 0.00	
82	5	14	18	3.8	340	20.3	B	7.2	356	12.6	C	10.4	35E	9.1	D	81.4	46.5	-1.4 A -3.3 D 0.00	
82	5	14	19	2.9	342	15.3	C	7.1	360	7.6	D	13.7	1	4.9	E	77.8	47.9	-0.6 D -2.1 D 0.00	
82	5	14	20	1.9	291	42.9	A	6.8	359	10.0	D	17.3	E	2.7	F	72.5	50.0	0.7 E -0.3 E 0.00	
82	5	14	21	2.0	134	42.1	A	4.4	58	24.9	A	14.0	1E	7.5	C	67.3	51.5	2.4 F 2.6 E 0.00	
82	5	14	22	1.8	150	36.8	A	3.0	36	45.2	A	8.3	2E	15.2	C	62.9	51.6	4.3 G 4.0 F 0.00	
82	5	14	23	1.7	148	31.1	A	2.3	227	28.5	A	6.2	2E	14.9	C	59.7	51.5	6.4 G 6.4 F 0.00	
82	5	14	24	0.9	146	43.7	A	2.3	209	31.0	A	4.6	4E	27.7	A	57.2	49.8	5.7 G 7.3 F 0.00	
82	5	15	1	1.2	136	23.8	A	1.6	292	51.5	A	6.9	5E	6.6	E	54.2	49.4	4.3 G 7.4 F 0.00	
82	5	15	2	1.3	137	18.4	B	1.6	45	43.0	A	7.6	5E	7.2	E	52.3	49.0	4.6 C 9.1 F 0.00	
82	5	15	3	1.3	136	26.8	B	1.3	340	24.8	A	8.2	54	5.7	E	51.1	48.4	4.6 G 9.7 F 0.00	
82	5	15	4	1.5	148	22.2	B	1.9	204	13.8	C	4.6	4E	13.0	C	49.9	48.2	4.0 G 9.2 F 0.00	
82	5	15	5	1.3	146	18.4	B	2.1	268	23.3	A	6.2	5E	8.2	C	48.5	47.8	4.5 G 8.3 F 0.00	
82	5	15	6	1.1	152	15.6	C	1.6	339	19.4	B	6.9	5E	4.6	E	48.5	47.4	4.2 G 8.1 F 0.00	
82	5	15	7	1.0	272	51.6	A	1.8	7	42.2	A	8.0	5E	6.1	E	49.1	47.9	2.9 G 7.7 F 0.00	
82	5	15	8	3.3	55	49.0	A	9.1	61	6.9	E	9.2	5E	6.2	E	54.7	48.5	0.2 E 1.7 E 0.00	
82	5	15	9	2.3	54	46.6	A	6.2	69	18.7	B	7.8	5E	6.2	E	60.9	43.9	6.2 E 6.9 F 0.00	
82	5	15	10	3.7	10	45.7	A	5.1	56	38.2	A	5.5	6E	10.4	D	66.4	42.3	-1.2 A -2.8 D 0.00	
82	5	15	11	3.8	349	26.4	A	5.4	6	14.5	C	5.3	21	17.5	B	69.6	42.3	-1.3 A -3.4 D 0.00	
82	5	15	12	4.6	346	15.1	C	6.6	5	11.3	D	7.5	1E	20.3	B	599.9	37.1	-1.0 C -3.2 D 0.00	
82	5	15	13	5.0	28	43.7	A	8.0	40	25.4	A	9.3	3E	10.9	D	76.5	31.2	999.9 - 999.9 - 0.00	
82	5	15	14	3.9	41	56.3	A	6.1	69	46.4	A	7.4	6E	16.7	C	80.0	25.4	-1.6 A -3.6 D 0.00	
82	5	15	15	4.5	353	44.7	A	6.4	21	31.3	A	7.2	2E	20.2	B	82.3	25.4	-1.6 A -3.7 D 0.00	
82	6	6	15	4.5	350	99.9	-	7.0	360	99.9	-	10.5	35E	21.2	B	82.1	29.9	-1.7 A -4.1 C 0.00	
82	6	6	20	3.0	335	99.9	-	5.0	345	99.9	-	7.5	35E	99.9	-	59.5	30.2	-1.3 A -3.4 D 0.00	
82	6	6	21	3.0	335	99.9	-	5.5	350	99.9	-	9.5	35E	99.9	-	59.0	53.0	-0.6 C -2.4 D 0.00	
82	6	6	22	2.5	355	99.9	-	5.0	335	99.9	-	7.5	35E	99.9	-	58.0	53.0	-0.6 D -2.3 C 0.00	
82	6	6	23	2.0	255	99.9	-	3.5	270	99.9	-	5.5	3E	99.9	-	57.5	53.0	-0.6 D -2.5 D 0.00	
82	6	6	24	2.5	245	99.9	-	3.5	255	99.9	-	3.5	2E	99.9	-	56.5	53.0	-0.7 D -2.6 D 0.00	
82	6	16	20	5.0	250	99.9	-	8.5	250	99.9	-	11.5	28E	99.9	-	56.0	53.0	-0.7 C -2.6 C 0.00	
82	6	16	21	4.5	270	99.9	-	8.0	270	99.9	-	10.5	29E	99.9	-	64.5	64.5	0.6 E -1.2 E 0.00	
																	63.0	63.0	0.5 E -1.4 D 0.00

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA
 150FT-LEVEL BATCH REVD

-----25 FT----- 150 FT----- 500 FT-----

YR	MO	DY	HR	25 FT			150 FT			500 FT			DEW POINT	DELTA T 150-35	DELTA T 500-35	RAIN FALL
				WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)				
82	6	16	22	5.5	270	99.9 -	10.5	285	99.9 -	18.5	285	99.9 -	61.0	-0.1 E	-1.7 D	0.05
82	6	16	23	4.5	285	99.9 -	9.0	285	99.9 -	12.5	285	99.9 -	59.0	-0.4 D	-1.7 D	0.00
82	6	16	24	3.5	270	99.9 -	8.0	280	99.9 -	10.5	290	99.9 -	58.0	-0.4 D	-1.7 D	0.01

BEAVER VALLEY
LISTINGS OF METEOROLOGICAL DATA
FOR
PERIODS OF GASEOUS EFFLUENT RELEASES
AT
THE 500-FT LEVEL
(ELEVATED)

LISTING FOR BEAVER VALLEY F-CURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REVC

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	WIND	WIND	STD	WIND	WIND	STD	WIND	WIND	STD	AMB.	DEW	DELTA T	DELTA T	RAIN	
				SPEED	DIR	DEV	SPEED	DIR	DEV	SPEED	DIR	DEV	TEMP	POINT				35F
				(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(F)	(F)	(F)	SC (F)	SC (IN)	
82	4	21	18	7.0	300	99.9	11.5	290	99.9	15.0	285	99.9	49.5	17.4	-1.1 B	-3.0 D	0.00	
82	4	21	19	5.5	280	99.9	10.5	280	99.9	14.0	285	99.9	48.5	19.6	-0.5 D	-2.4 D	0.00	
82	4	21	20	5.5	250	99.9	7.5	250	99.9	10.5	280	99.9	45.5	21.9	0.8 E	-0.5 E	0.00	
82	4	21	21	2.5	150	99.9	5.0	220	99.9	12.0	265	99.9	40.0	23.6	3.8 G	3.8 E	0.00	
82	4	21	22	3.5	185	99.9	7.5	240	99.9	14.0	255	99.9	41.0	24.1	3.2 G	2.3 E	0.00	
82	4	21	23	4.0	200	99.9	7.5	240	99.9	14.5	250	99.9	41.5	24.1	2.2 F	1.7 E	0.00	
82	4	21	24	3.0	170	99.9	5.0	270	99.9	11.5	275	99.9	40.5	24.1	2.3 F	1.7 E	0.00	
82	4	22	1	2.5	170	99.9	6.5	280	99.9	11.0	280	99.9	38.0	25.3	3.6 G	3.5 E	0.00	
82	4	22	2	2.0	185	99.9	5.0	280	99.9	9.5	285	99.9	36.5	24.7	4.0 G	3.5 E	0.00	
82	4	22	3	2.0	210	99.9	5.5	290	99.9	11.5	295	99.9	36.0	24.7	3.2 G	2.6 E	0.00	
82	4	22	4	2.5	170	99.9	4.0	270	99.9	9.0	280	99.9	34.5	24.1	3.7 C	3.5 E	0.00	
82	6	2	15	4.5	310	99.9	5.5	300	99.9	6.0	285	99.9	71.0	999.9	-1.7 A	-3.9 C	9.99	
82	6	2	16	5.0	270	99.9	6.5	285	99.9	7.5	275	99.9	72.0	999.9	-1.6 A	-3.9 C	9.99	
82	6	2	17	4.5	325	99.9	7.0	325	99.9	8.5	320	99.9	71.0	999.9	-1.4 A	-3.5 D	9.99	
82	6	2	18	2.5	330	99.9	4.5	335	99.9	5.0	340	99.9	70.0	999.9	-0.9 D	-2.6 D	9.99	
82	6	2	19	1.5	355	99.9	4.5	315	99.9	6.0	325	99.9	65.0	999.9	1.6 F	1.1 E	9.99	
82	6	2	20	1.5	140	99.9	2.5	125	99.9	3.5	285	99.9	58.0	999.9	3.1 G	6.6 F	9.99	
82	6	2	21	1.5	135	99.9	2.0	35	99.9	1.5	165	99.9	55.0	999.9	3.2 G	8.1 F	9.99	
82	6	2	22	1.5	140	99.9	1.5	15	99.9	1.5	35	99.9	53.0	999.9	2.9 G	7.7 F	9.99	
82	6	2	23	1.5	130	99.9	1.0	240	99.9	1.0	360	99.9	51.5	999.9	3.2 G	7.4 F	9.99	
82	6	2	24	1.5	140	99.9	1.0	310	99.9	2.0	70	99.9	50.5	999.9	2.8 G	7.7 F	9.99	
82	6	3	1	1.0	135	99.9	1.5	20	99.9	4.0	100	99.9	999.9	999.9	999.9	9.5 F	9.99	
82	6	3	2	1.5	135	99.9	2.0	55	99.9	3.5	95	99.9	999.9	999.9	999.9	6.4 F	9.99	
82	6	3	3	1.5	115	99.9	2.5	55	99.9	4.5	60	99.9	999.9	999.9	999.9	3.3 E	9.99	
82	6	3	4	1.5	110	99.9	2.5	245	99.9	5.5	35	99.9	999.9	999.9	999.9	2.7 E	9.99	
82	6	3	5	2.5	190	99.9	3.0	315	99.9	4.0	65	99.9	999.9	999.9	999.9	-0.4 E	9.99	
82	6	3	6	1.5	145	99.9	1.5	35	99.9	6.5	60	99.9	999.9	999.9	999.9	1.8 E	9.99	
82	6	3	7	1.5	155	99.9	2.5	80	99.9	8.0	65	99.9	999.9	999.9	999.9	-0.8 E	9.99	
82	6	3	8	2.0	50	99.9	2.5	35	99.9	5.5	45	99.9	999.9	999.9	999.9	-2.1 D	9.99	
82	6	3	15	2.5	35	99.9	11.5	65	99.9	12.5	60	99.9	70.5	53.5	-2.0 A	-4.4 B	0.00	
82	6	3	16	4.5	25	99.9	9.0	50	99.9	11.5	45	99.9	69.5	53.0	-1.4 A	-3.6 D	0.00	
82	6	3	17	4.0	85	99.9	10.5	80	99.9	14.0	65	99.9	68.0	54.5	-1.4 A	-3.5 D	0.00	
82	6	3	18	4.5	40	99.9	16.5	65	99.9	20.5	55	99.9	65.0	55.5	-1.5 A	-3.6 D	0.00	
82	6	3	19	4.0	75	99.9	12.5	70	99.9	16.5	65	99.9	61.0	54.0	-1.1 B	-3.1 D	0.00	
82	6	3	20	3.5	75	99.9	10.5	75	99.9	12.5	65	99.9	59.5	53.0	-0.9 D	-2.9 D	0.00	
82	6	3	21	2.5	80	99.9	7.5	75	99.9	10.5	65	99.9	58.5	52.5	-0.8 D	-2.6 D	0.00	
82	6	3	22	3.0	110	99.9	7.5	75	99.9	11.5	65	99.9	58.5	53.0	-0.6 D	-2.4 D	0.00	
82	6	3	23	2.5	100	99.9	6.5	80	99.9	10.5	65	99.9	58.0	53.0	-0.6 C	-2.4 D	0.00	
82	6	3	24	3.5	105	99.9	7.5	80	99.9	10.5	65	99.9	58.0	53.5	-0.7 D	-2.5 D	0.00	
82	6	4	1	2.0	110	99.9	5.5	75	99.9	8.0	70	99.9	57.5	54.0	-0.7 D	-2.6 D	0.00	
82	6	4	2	2.0	40	99.9	5.5	70	99.9	7.5	70	99.9	57.0	54.5	-0.8 D	-2.6 D	0.00	
82	6	4	3	2.0	75	99.9	4.5	70	99.9	6.5	55	99.9	57.0	55.0	-0.7 D	-2.4 D	0.00	
82	6	4	4	1.5	35	99.9	4.0	55	99.9	5.5	45	99.9	57.5	55.0	-0.8 C	-2.4 D	0.00	
82	6	4	5	1.5	90	99.9	4.0	75	99.9	7.0	60	99.9	57.5	55.5	-0.7 D	-2.2 D	0.00	
82	6	4	6	1.5	40	99.9	4.5	65	99.9	6.5	55	99.9	58.5	55.5	-0.7 D	-2.3 D	0.00	
82	6	4	7	1.5	35	99.9	4.0	60	99.9	5.5	60	99.9	59.5	56.0	-0.8 D	-2.6 D	0.00	
82	6	4	8	2.5	35	99.9	5.5	55	99.9	5.5	65	99.9	61.0	56.5	-1.0 C	-3.0 D	0.00	
82	6	4	9	2.4	25	99.9	4.3	78	21.1 B	4.7	88	17.8 B	64.2	58.4	-0.9 D	-3.0 D	0.00	

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV0

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	WIND			WIND			WIND			AMB. TEMP 35F	DEW POINT 35F	DELTA T 150-35		DELTA T 500-35		RAIN FALL
				SPEED (MPH)	DIR (DEG)	SC (DEG)	SPEED (MPH)	DIR (DEG)	SC (DEG)	SPEED (MPH)	DIR (DEG)	SC (DEG)			(F)	SC (F)	(F)	SC (IN)	
82	6	4	16	3.2	85	99.9 -	8.2	81	11.6 D	11.8	75	6.3 E	71.4	59.8	-1.1 B	-3.2 D	0.00		
82	6	4	17	3.2	75	99.9 -	9.2	74	10.8 D	12.4	73	7.2 E	70.6	59.8	-1.0 C	-3.0 D	0.00		
82	6	4	18	3.7	85	99.9 -	11.3	74	10.7 D	15.1	73	6.6 E	70.3	59.8	-0.9 D	-2.7 D	0.00		
82	6	4	19	2.6	90	99.9 -	7.9	72	12.6 C	12.2	73	5.6 E	68.6	59.7	-0.5 D	-2.3 D	0.00		
82	6	4	20	2.4	65	99.9 -	8.3	68	9.9 D	11.0	72	7.2 E	67.5	59.2	-0.2 E	-2.0 D	0.00		
82	6	4	21	2.0	100	99.9 -	6.7	76	10.5 D	10.7	82	6.1 E	65.5	60.0	0.1 E	-1.4 D	0.01		
82	6	4	22	1.9	85	99.9 -	6.9	76	7.9 D	11.0	85	3.9 E	62.6	61.0	0.0 E	-1.1 E	0.07		
82	6	4	23	2.4	65	99.9 -	6.7	73	11.6 D	11.4	84	7.4 E	60.9	60.5	-0.6 D	-1.3 D	0.02		
82	6	4	24	1.4	75	47.0 A	6.6	69	10.3 D	10.2	75	8.1 D	59.9	60.1	-0.3 E	-1.2 E	0.06		
82	6	5	1	1.9	80	99.9 -	7.2	57	7.4 E	9.1	71	6.8 E	59.4	59.7	-0.4 D	-1.3 D	0.04		
82	6	5	2	1.7	90	99.9 -	7.5	61	8.5 D	12.5	66	4.9 E	59.1	59.5	-0.3 E	-1.1 E	0.08		
82	6	5	3	2.4	65	99.9 -	9.2	53	8.0 D	14.9	55	4.8 E	59.0	59.5	-0.4 D	-0.9 E	0.09		
82	6	5	4	2.9	35	99.9 -	11.1	52	7.2 E	16.4	45	5.2 E	59.0	59.2	-0.4 D	-0.8 E	0.14		
82	6	5	7	99.9	999	99.9 -	1.5	25	99.9 -	2.0	80	99.9 -	59.5	55.5	-0.3 E	-0.4 E	0.00		
82	6	5	8	99.9	999	99.9 -	4.0	25	99.9 -	3.5	110	99.9 -	61.0	61.0	-0.4 D	0.1 E	0.00		
82	6	5	9	99.9	999	99.9 -	3.0	35	99.9 -	3.0	125	99.9 -	64.0	63.5	0.1 E	1.5 E	0.00		
82	6	5	10	99.9	999	99.9 -	2.5	20	99.9 -	1.5	160	99.9 -	70.0	65.0	0.6 E	1.4 E	0.00		
82	6	5	11	99.9	999	99.9 -	2.5	25	99.9 -	2.5	170	99.9 -	76.5	64.5	-1.0 C	-2.6 D	0.00		
82	6	5	12	99.9	999	99.9 -	2.5	200	99.9 -	2.5	270	99.9 -	78.0	61.5	-0.8 D	-2.7 D	0.00		
82	6	5	13	99.9	999	99.9 -	5.0	185	99.9 -	4.5	150	99.9 -	80.0	61.0	-1.9 A	-3.8 D	0.00		
82	6	5	14	5.2	211	23.2 A	6.9	207	19.0 B	7.6	192	16.5 C	81.9	62.0	-1.4 A	-3.1 D	0.00		
82	6	5	15	3.1	167	45.9 A	6.7	170	19.5 B	7.8	170	14.3 C	82.9	61.2	-2.0 A	-3.6 D	0.00		
82	6	5	16	1.9	154	40.0 A	5.9	160	15.9 C	7.3	162	12.2 E	82.5	61.0	-1.6 A	-3.2 D	0.00		
82	6	5	17	1.4	123	40.0 A	4.8	134	10.9 D	7.4	136	6.6 E	81.1	62.9	-1.1 B	-2.5 D	0.00		
82	6	5	18	1.3	112	29.9 A	5.3	125	7.2 E	9.6	131	2.9 F	78.3	64.5	0.3 E	-0.5 E	0.00		
82	6	5	19	1.8	121	19.9 B	4.5	131	10.6 D	10.9	130	3.0 F	75.5	65.4	1.7 F	2.0 E	0.00		
82	6	5	20	1.6	153	43.4 A	3.6	138	31.9 A	11.3	145	4.5 E	71.7	66.3	3.1 G	5.3 F	0.00		
82	6	5	21	1.1	133	45.0 A	1.5	355	62.3 A	9.6	150	4.9 E	69.9	65.7	1.4 F	5.8 F	0.00		
82	6	5	22	0.8	131	45.1 A	2.4	22	14.8 C	10.8	154	5.1 E	68.4	65.6	2.1 F	6.1 F	0.00		
82	6	5	23	3.2	167	47.0 A	5.0	332	37.2 A	9.7	186	12.4 D	68.3	65.7	1.0 F	3.3 E	0.02		
82	6	5	24	2.7	192	17.9 B	4.8	233	14.4 C	6.1	252	11.8 D	67.6	65.2	0.1 E	-1.0 E	0.03		
82	6	10	1	2.0	28	36.9 A	2.9	78	37.6 A	7.3	177	23.9 A	66.3	65.8	0.5 E	-0.1 E	0.00		
82	6	10	2	1.7	74	36.1 A	2.6	122	47.8 A	5.2	178	35.3 A	66.1	65.9	0.6 E	-0.4 E	0.00		
82	6	10	3	1.6	58	22.5 A	2.4	65	20.8 B	5.1	153	15.0 C	66.6	66.0	0.0 E	-1.4 D	0.00		
82	6	10	4	1.6	304	49.3 A	2.3	228	56.4 A	8.3	165	11.1 D	66.5	65.8	-0.1 E	-1.4 D	0.00		
82	6	10	5	1.7	88	34.7 A	2.4	126	32.4 A	5.9	158	18.1 E	66.2	65.1	-0.2 E	-1.7 D	0.00		
82	6	10	6	1.5	66	32.1 A	2.2	91	51.5 A	5.3	155	13.0 C	66.0	64.6	-0.4 D	-2.0 D	0.00		
82	6	10	7	1.5	77	40.1 A	2.6	143	31.5 A	5.6	164	15.7 C	66.9	64.2	-0.8 D	-2.6 D	0.00		
82	6	10	8	2.0	179	29.7 A	3.6	193	20.5 B	6.0	197	13.4 C	67.2	64.3	-0.7 D	-2.3 D	0.00		
82	6	10	9	99.9	999	99.9 -	5.5	205	99.9 -	6.5	200	99.9 -	66.0	63.0	-0.9 D	-2.9 D	0.00		
82	6	10	10	3.3	194	25.0 A	5.4	176	16.0 C	6.0	182	12.1 D	68.4	64.9	-1.0 C	-2.8 D	0.00		
82	6	10	11	4.1	205	15.2 B	5.7	207	13.4 C	6.8	210	10.1 D	69.0	65.4	-0.9 D	-2.7 D	0.00		
82	6	10	12	3.8	207	17.4 C	5.1	210	13.8 C	5.4	211	11.0 D	69.5	65.8	-0.9 D	-2.7 D	0.00		
82	6	12	14	4.5	230	99.9 -	5.5	215	99.9 -	7.5	210	99.9 -	71.0	57.0	-1.3 A	-3.3 D	0.00		
82	6	12	15	3.5	240	99.9 -	4.8	245	99.9 -	4.5	235	99.9 -	71.0	54.0	-1.3 A	-3.4 D	0.00		
82	6	12	16	4.0	195	99.9 -	5.5	195	99.9 -	6.0	195	99.9 -	71.0	54.0	-1.1 B	-3.1 D	0.00		
82	6	12	17	3.0	185	99.9 -	6.5	185	99.9 -	5.0	190	99.9 -	70.0	57.0	-1.1 B	-3.2 D	0.00		
82	6	12	18	2.5	185	99.9 -	6.0	185	99.9 -	8.5	190	99.9 -	68.5	57.5	-0.8 D	-2.7 D	0.00		

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REV C

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	WIND			WIND			STD	AMB.	DEW	DELTA T	DELTA T	RAIN							
				SPEED	DIR	DEV	SPEED	DIR	DEV							TEMP	POINT	150-35	500-35	FALL		
				(MPH)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(MPH)	(DEG)	(DEG)	(DEG)	(F)	(F)	(F)	(F)	(IN)				
82	6	12	19	2.0	185	99.9	-	5.0	185	99.9	-	9.5	195	99.9	-	66.0	58.5	-0.4	D	-1.6	D	0.00
82	6	12	20	1.5	180	99.9	-	2.5	205	99.9	-	4.0	285	99.9	-	65.5	58.0	0.2	E	-1.0	E	0.00
82	6	12	21	1.0	135	99.9	-	1.5	120	99.9	-	2.0	225	99.9	-	63.0	58.5	1.2	F	1.3	E	0.00
82	6	12	22	1.0	125	99.9	-	1.5	270	99.9	-	3.5	155	99.9	-	62.0	58.5	0.8	E	1.1	E	0.00
82	6	12	23	1.5	125	99.9	-	3.0	45	99.9	-	3.0	145	99.9	-	62.0	58.5	1.2	F	0.6	E	0.00
82	6	12	24	1.0	135	99.9	-	2.0	25	99.9	-	2.0	125	99.9	-	61.0	58.0	1.3	F	1.2	F	0.00
82	6	13	1	1.0	95	99.9	-	1.5	205	99.9	-	1.5	130	99.9	-	60.0	58.0	1.1	F	0.6	E	0.00
82	6	13	2	1.5	95	99.9	-	1.5	60	99.9	-	1.5	70	99.9	-	60.0	58.0	0.9	E	0.4	E	0.00
82	6	13	3	1.0	65	99.9	-	2.5	55	99.9	-	4.0	75	99.9	-	60.5	58.5	0.3	E	0.6	E	0.00
82	6	13	4	1.0	85	99.9	-	3.5	75	99.9	-	4.5	75	99.9	-	60.0	59.0	0.3	E	-1.1	E	0.00
82	6	13	5	1.0	95	99.9	-	3.0	75	99.9	-	4.0	75	99.9	-	60.0	59.0	-0.1	E	-1.6	D	0.00
82	6	13	6	1.0	15	99.9	-	2.5	45	99.9	-	3.5	40	99.9	-	60.0	59.0	-0.2	E	-1.8	D	0.00
82	6	13	7	2.0	45	99.9	-	3.5	50	99.9	-	2.0	55	99.9	-	60.0	58.5	-0.7	D	-2.3	D	0.00
82	6	13	8	2.0	345	99.9	-	2.0	25	99.9	-	1.5	85	99.9	-	61.0	58.5	-0.9	D	-2.4	D	0.00
82	6	13	9	2.0	285	99.9	-	2.0	295	99.9	-	1.5	270	99.9	-	64.0	59.0	-1.1	B	-2.3	D	0.00
82	6	13	13	3.5	335	99.9	-	3.5	325	99.9	-	3.5	315	99.9	-	74.0	53.0	-1.7	A	-3.6	D	0.00
82	6	13	14	3.5	350	99.9	-	5.5	345	99.9	-	5.5	285	99.9	-	74.0	56.0	-1.0	C	-2.8	D	0.00
82	6	13	15	2.5	265	99.9	-	4.0	345	99.9	-	5.5	245	99.9	-	69.0	62.0	0.5	F	-0.2	E	0.00
82	6	13	16	3.5	255	99.9	-	4.5	250	99.9	-	6.5	250	99.9	-	71.0	55.0	-1.4	A	-3.2	D	0.00
82	6	13	17	6.5	230	99.9	-	7.5	235	99.9	-	10.5	245	99.9	-	75.0	55.0	-1.4	A	-3.4	D	0.00
82	6	13	18	5.0	255	99.9	-	7.5	235	99.9	-	10.0	295	99.9	-	74.5	56.0	-0.8	D	-2.6	D	0.00
82	6	13	19	1.5	330	99.9	-	2.5	335	99.9	-	7.0	350	99.9	-	71.0	56.0	-0.6	D	-2.4	D	0.00
82	6	13	20	1.5	255	99.9	-	4.0	320	99.9	-	10.0	345	99.9	-	66.5	59.0	2.0	F	1.3	E	0.00
82	6	13	21	1.5	225	99.9	-	3.0	295	99.9	-	7.5	335	99.9	-	66.0	52.0	0.4	E	-1.0	E	0.00
82	6	13	22	1.5	250	99.9	-	3.5	295	99.9	-	9.0	325	99.9	-	62.5	50.0	2.4	F	1.9	E	0.00
82	6	13	23	1.5	135	99.9	-	2.5	200	99.9	-	6.5	300	99.9	-	56.5	52.5	3.9	G	5.0	F	0.00
82	6	13	24	2.0	135	99.9	-	4.0	205	99.9	-	4.5	275	99.9	-	53.5	52.0	5.1	G	4.6	F	0.00
82	6	14	1	1.5	135	99.9	-	4.5	205	99.9	-	4.5	275	99.9	-	52.0	51.0	3.8	G	3.7	E	0.00
82	6	14	2	2.0	145	99.9	-	4.5	210	99.9	-	4.5	285	99.9	-	51.0	51.0	3.5	G	4.6	F	0.00
82	6	14	3	1.5	140	99.9	-	3.5	215	99.9	-	4.0	265	99.9	-	50.0	50.0	2.9	G	3.5	E	0.00
82	6	14	4	2.5	150	99.9	-	4.0	215	99.9	-	4.5	255	99.9	-	49.0	49.0	2.8	G	2.3	E	0.00
82	6	14	5	2.0	155	99.9	-	4.0	210	99.9	-	4.5	245	99.9	-	49.0	49.0	2.7	G	2.0	E	0.01
82	6	14	6	2.0	165	99.9	-	3.5	215	99.9	-	5.0	240	99.9	-	49.5	49.5	1.6	F	1.7	E	0.00
82	6	17	2	3.5	285	99.9	-	6.0	295	99.9	-	8.5	300	99.9	-	57.0	57.0	-0.6	D	-1.5	D	0.00
82	6	17	4	2.5	265	99.9	-	4.5	280	99.9	-	5.5	285	99.9	-	57.0	57.0	-0.7	D	-1.8	D	0.00
82	6	17	5	2.5	295	99.9	-	4.5	290	99.9	-	6.5	280	99.9	-	57.5	57.5	-0.6	D	-2.0	D	0.00
82	6	17	6	3.5	305	99.9	-	5.0	295	99.9	-	7.5	300	99.9	-	58.0	57.5	-0.5	D	-2.1	D	0.00
82	6	17	7	3.5	275	99.9	-	4.5	295	99.9	-	5.5	300	99.9	-	58.5	57.0	-0.5	D	-2.5	D	0.00
82	6	17	8	3.5	275	99.9	-	5.5	395	99.9	-	7.5	295	99.9	-	59.5	57.5	-0.7	D	-2.7	D	0.00
82	6	17	9	3.5	260	99.9	-	6.5	295	99.9	-	7.5	290	99.9	-	59.0	57.5	-0.3	E	-2.1	D	0.00
82	6	17	10	4.0	265	99.9	-	4.0	295	99.9	-	6.5	305	99.9	-	59.5	58.0	-0.9	D	-2.7	D	0.00
82	6	17	11	4.0	345	99.9	-	7.5	270	99.9	-	6.5	275	99.9	-	60.0	57.5	-1.0	C	-2.8	D	0.00
82	6	17	12	4.5	245	99.9	-	5.0	260	99.9	-	5.0	265	99.9	-	60.0	57.0	-0.7	C	-2.7	D	0.00
82	6	17	13	3.5	265	99.9	-	3.0	265	99.9	-	3.5	270	99.9	-	61.5	57.0	-0.8	D	-2.7	D	0.00
82	6	17	14	3.0	275	99.9	-	4.0	285	99.9	-	4.0	230	99.9	-	63.0	57.5	-1.0	C	-3.1	D	0.00
82	6	17	15	3.5	260	99.9	-	4.5	265	99.9	-	5.0	255	99.9	-	65.0	57.0	-1.1	B	-3.1	D	0.00
82	6	17	16	3.0	255	99.9	-	4.5	265	99.9	-	5.0	270	99.9	-	67.0	55.5	-1.3	A	-3.3	D	0.00
82	6	17	17	4.0	255	99.9	-	5.5	250	99.9	-	6.5	255	99.9	-	68.5	54.0	-1.2	A	-3.3	D	0.00

LISTING FOR BEAVER VALLEY FURLY METEOROLOGICAL DATA

500FT-LEVEL BATCH REVC

-----35 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	35 FT			150 FT			500 FT			AMR. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
				WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC(DEV) SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC(DEV) SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC(DEV) SC					
82	6	17	19	3.5	245	99.9 -	5.0	255	99.9 -	5.5	255	99.9 -	69.0	53.0	-1.2 A	-3.2 C	0.00
82	6	18	2	1.5	135	99.9 -	2.5	100	99.9 -	1.5	70	99.9 -	52.0	52.0	0.3 E	2.6 E	0.00
82	6	18	3	1.5	150	99.9 -	1.5	125	99.9 -	1.5	355	99.9 -	52.0	52.0	0.1 E	1.6 E	0.00
82	6	18	4	1.5	176	99.9 -	2.0	135	99.9 -	1.5	100	99.9 -	51.0	51.0	0.2 E	1.9 E	0.00
82	6	18	5	1.5	155	99.9 -	1.5	120	99.9 -	1.5	175	99.9 -	50.0	50.0	0.6 E	2.9 E	0.00
82	6	18	6	1.5	160	99.9 -	1.5	105	99.9 -	1.0	335	99.9 -	50.5	50.5	-0.2 E	1.5 E	0.00
82	6	18	7	1.5	65	99.9 -	2.0	100	99.9 -	1.5	145	99.9 -	52.0	52.0	-0.4 D	2.4 E	0.00
82	6	18	8	1.5	245	99.9 -	2.0	30	99.9 -	1.5	115	99.9 -	54.0	54.0	-0.5 D	4.6 F	0.00
82	6	18	9	2.5	350	99.9 -	2.5	25	99.9 -	1.5	10	99.9 -	60.0	57.5	-1.5 A	2.0 E	0.00
82	6	18	10	2.5	335	99.9 -	2.0	335	99.9 -	2.0	235	99.9 -	67.0	58.5	-2.6 A	-1.5 D	0.00
82	6	18	11	3.0	285	99.9 -	3.0	60	99.9 -	3.5	185	99.9 -	71.0	54.0	-1.1 B	-3.1 D	0.00
82	6	18	12	3.5	250	99.9 -	4.0	245	99.9 -	4.0	245	99.9 -	73.0	53.5	-1.8 A	-3.9 C	0.00
82	6	18	13	3.5	255	99.9 -	5.0	215	99.9 -	4.5	210	99.9 -	75.5	53.0	-2.0 A	-4.2 C	0.00
82	6	18	14	4.0	195	99.9 -	5.0	165	99.9 -	5.5	165	99.9 -	79.0	53.0	-1.9 A	-4.3 C	0.00
82	6	18	15	2.0	180	99.9 -	4.0	165	99.9 -	4.5	165	99.9 -	76.5	54.0	-1.9 A	-3.9 C	0.00
82	6	18	16	2.0	120	99.9 -	3.5	115	99.9 -	3.5	140	99.9 -	76.5	55.0	-1.6 A	-3.5 D	0.00
82	6	29	21	2.0	173	25.5 A	4.7	284	11.9 D	12.7	315	2.8 F	68.9	66.5	2.7 G	2.4 E	0.00
82	6	29	22	1.6	167	21.2 E	2.5	243	16.6 C	7.1	307	7.5 C	66.5	65.7	2.6 G	2.8 E	0.00
82	6	29	23	1.7	163	30.0 A	2.7	232	13.9 C	6.2	318	7.5 C	65.4	64.9	2.2 F	2.5 E	0.00
82	6	29	24	1.6	172	25.4 A	2.8	249	16.9 C	6.6	317	5.0 E	65.4	65.0	1.5 F	1.9 E	0.00
82	6	30	1	1.7	148	25.7 A	3.5	235	16.3 C	5.5	286	7.6 D	65.4	65.4	1.3 F	0.9 E	0.00
82	6	30	2	1.8	172	32.4 A	3.4	251	19.8 B	7.2	295	5.1 E	66.0	65.7	0.6 E	0.2 E	0.00
82	6	30	3	1.8	274	50.6 A	4.1	310	26.8 A	8.6	311	7.2 E	66.6	65.0	0.3 E	-0.8 E	0.00
82	6	30	4	3.0	333	48.7 A	6.0	326	38.2 A	10.2	335	21.4 B	66.0	60.3	-0.6 D	-2.4 D	0.01
82	6	30	5	2.3	302	43.9 A	4.9	301	25.7 A	9.8	344	13.6 C	60.7	57.6	-0.9 D	-2.7 D	0.20
82	6	30	6	1.9	336	46.4 A	3.2	311	20.3 B	8.2	358	6.8 E	59.8	57.8	-0.3 E	-1.5 D	0.00
82	6	30	7	2.6	323	25.2 A	3.8	313	23.8 A	7.7	341	12.7 C	60.5	57.4	-0.6 D	-2.4 D	0.00
82	6	30	8	2.8	282	24.4 A	3.9	293	18.7 B	5.9	322	17.0 C	61.7	58.4	-0.9 D	-2.6 D	0.00
82	6	30	9	3.5	265	99.9 -	4.5	275	99.9 -	6.5	310	99.9 -	65.0	57.5	-0.9 D	-2.8 D	0.01
82	6	30	10	3.5	355	99.9 -	7.0	5	99.9 -	8.5	360	99.9 -	70.0	53.5	-1.4 A	-3.6 D	0.01
82	6	30	11	5.5	350	99.9 -	9.0	5	99.9 -	10.5	350	99.9 -	72.0	52.0	-1.6 A	-4.0 C	0.00

DUQUESNE LIGHT COMPANY
Beaver Valley Power Station
Docket No. 50-334, License No. DPR-66

Semiannual Effluent Report
Offsite Dose Estimates - Third and Fourth Quarters, 1981

In accordance with requirements of Section 5.6.1.B of the Environmental Technical Specifications and Regulatory Guide 1.21, the offsite dose to humans from the gaseous and liquid radioactive effluents has been estimated.

Dose Models

A. Airborne Effluents

All doses as a result of Beaver Valley operation were calculated for gaseous pathways using NRC computer code GASPAR.

All batch and continuous gaseous effluent releases were included in dose assessments. The continuous gaseous effluent releases include the Auxiliary Building Ventilation, Containment Ventilation and Process Ventilation. This data, as obtained from the analyses required by the Technical Specifications, was used as the source terms in GASPAR. Meteorological data collected by the Beaver Valley Power Station meteorology system was also used in input to GASPAR. Except when more recent or specific data was available, all inputs were the same as used in the Beaver Valley Power Station Environmental Statement or in Regulatory Guide 1.109.

B. Liquid Effluents

The radiation doses to man from liquid effluents were calculated using NRC computer code LADTAP.

All potentially radioactive liquid effluents, including steam generator blowdown, are released by batch mode after analysis by gamma spectrometry using a GeLi detector. The actual data from these analyses are tabulated and used as the source terms in LADTAP. The maximum individual for liquid pathways is located at the Midland Water Station. Except when more recent or specific data for the period is available, all other input to LADTAP was obtained from the Beaver Valley Power Station Environmental Statement or Regulatory Guide 1.109. Pathways, which were evaluated, include drinking water, fish consumption, and shoreline recreation.

DUQUESNE LIGHT COMPANY
 Beaver Valley Power Station
 Docket No. 50-334, License No. DPR-66

Semiannual Effluent Report
Offsite Dose Estimates - Third and Fourth Quarter, 1981

SUMMARY OF RESULTS

Airborne Effluents

<u>Maximum Individual Dose</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>
Whole Body		
SW 1.49 mi	3.62E-5 mrem	2.29E-8 mrem
NE 0.38 mi	4.44E-7 mrem	2.59E-8 mrem
ESE 0.38 mi	2.79E-7 mrem	
SE 0.44 mi		2.99E-8 mrem
Beta Air Dose		
SW 1.49 mi	1.81E-4 mrad	9.56E-7 mrad
NE 0.38 mi	2.71E-6 mrad	1.32E-7 mrad
ESE 0.38 mi	1.70E-6 mrad	
SE 0.44 mi		1.53E-7 mrad
Gamma Air Dose		
SW 1.49 mi	5.62E-5 mrad	3.86E-8 mrad
NE 0.38 mi	7.80E-7 mrad	4.44E-8 mrad
ESE 0.38 mi	4.91E-7 mrad	
SE 0.44 mi		5.13E-8 mrad

All other organs less than the whole body dose.

Population Dose 0 to 50 miles		
Whole Body	6.45E-3 man-rem	4.61E-2 man-rem

Liquid Effluents

<u>Maximum Individual Dose</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>
Adult (Whole Body) Fish Pathway (All other organs less than the whole body dose.)	1.16E-2 mrem/year intake	5.48E-3 mrem/year intake
Population Dose 0 to 50 miles		
Whole Body	3.15E-2 man-rem	1.37E-2 man-rem
Thyroid	3.49E-3 man-rem	1.34E-2 man-rem
Kidney	3.14E-2 man-rem	1.20E-2 man-rem
Lung	3.26E-2 man-rem	1.23E-2 man-rem
GI-LLI	3.73E-2 man-rem	1.55E-2 man-rem

TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1981)

LIQUID EFFLUENTS—SUMMATION OF ALL RELEASES

	Unit	Quarter	Quarter	Est. Total Error, %
		3RD	4TH	
A. Fission and activation products				
1. Total release (not including tritium, gases, alpha)	Ci	4.62 E-2	2.46 E-2	2.0 E+1
2. Average diluted concentration during period	μCi/ml	4.49 E-8	4.51 E-8	
3. Percent of applicable limit	%	4.62 E-1	2.46 E-1	
B. Tritium				
1. Total release	Ci	5.71 E+1	1.96 E+1	1.5 E+1
2. Average diluted concentration during period	μCi/ml	5.54 E-5	3.59 E-5	
3. Percent of applicable limit	%	1.85 E0	1.20 E0	
C. Dissolved and entrained gases				
1. Total release	Ci	2.75 E-3	7.81 E-3	2.7 E+1
2. Average diluted concentration during period	μCi/ml	2.67 E-9	1.43 E-8	
3. Percent of applicable limit	%	N/A E	N/A E	
D. Gross alpha radioactivity				
1. Total release	Ci	LLD E	LLD E	2.9 E+1
E. Volume of waste released (prior to dilution)				
	liters	1.39 E+6	7.82 E+5	5.0 E0
F. Volume of dilution water used during period				
	liters	1.03 E+9	5.45 E+8	1.0 E+1

N/A = NOT APPLICABLE

LLD = BELOW THE LOWER LIMIT OF DETECTABILITY IN μCi/CC (TABLE 4)

A.3 IS BASED ON A LIMIT OF 10 Ci/QUARTER

B.3 IS BASED ON A LIMIT OF 3.0 E-3 μCi/ML

TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1981)

LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		3RD Quarter	4TH Quarter	3RD Quarter	4TH Quarter
strontium-89	Ci	N/A E	N/A E	2.74 E-4	4.57 E-5
strontium-90	Ci	E	E	6.36 E-6	LLD E
cesium-134	Ci	E	E	1.57 E-3	7.49 E-4
cesium-137	Ci	E	E	5.18 E-3	2.10 E-3
iodine-131	Ci	E	E	3.46 E-4	1.46 E-4
cobalt-58	Ci	E	E	5.15 E-3	1.54 E-3
cobalt-60	Ci	E	E	3.19 E-2	1.96 E-2
iron-59	Ci	E	E	LLD E	LLD E
zinc-65	Ci	E	E	LLD E	LLD E
manganese-54	Ci	E	E	1.65 E-3	4.31 E-4
chromium-51	Ci	E	E	LLD E	LLD E
zirconium-niobium-95	Ci	E	E	LLD E	LLD E
molybdenum-99	Ci	E	E	LLD E	LLD E
technetium-99m	Ci	E	E	LLD E	2.92 E-6
barium-lanthanum-140	Ci	E	E	LLD E	LLD E
cerium-141	Ci	E	E	LLD E	LLD E
Other (specify)	Ci	E	E	. E	. E
IODINE - 135	Ci	E	E	7.75 E-5	. E
	Ci	E	E	. E	. E
	Ci	E	E	. E	. E
	Ci	E	E	. E	. E
unidentified	Ci	E	E	. E	. E
Total for period (above)	Ci	E	E	4.62 E-2	2.46 E-2
xenon-133	Ci	E	E	2.75 E-3	7.68 E-3
xenon-135	Ci	E	E	LLD E	1.32 E-4

N/A = NOT APPLICABLE (LIQUIDS NOT DISCHARGED IN A CONTINUOUS MODE)

LLD = BELOW THE LOWER LIMIT OF DETECTABILITY IN $\mu\text{Ci}/\text{CC}$ (TABLE 4)