

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

Supplemental Information
1st Half - 1987

Facility B.V.P.S. Unit No. 1 Licensee Duquesne Light Company

1. Regulatory Limits

- a. Fission and activation gases:
 - b. Iodines:
 - c. Particulates, half-lives >8 days:
 - d. Liquid effluents:
- } - Technical Specifications, Article 3/4.11

2. Maximum Permissible Concentrations

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

- a. Fission and activation gases:
 - b. Iodines:
 - c. Particulates, half-lives >8 days:
 - 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: Ge Gamma Spectrometry, Liquid Scintillation Counter
- b. Iodines: Ge Gamma Spectrometry
- c. Particulates: Ge Gamma Spectrometry, Low Background Proportional Counter
- d. Liquid effluents: Ge Gamma Spectrometry, Liquid Scintillation Counter, Low Background Proportional Counter

5. Batch Releases

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

	1st Quarter	2nd Quarter
a. Liquid		
1. Number of batch releases:	9	15
2. Total time period for batch releases:	3,524 Minutes	7,542 Minutes
3. Maximum time period for a batch release:	1,080 Minutes	1,171 Minutes
4. Average time period for batch releases:	392 Minutes	503 Minutes
5. Minimum time period for a batch release:	58 Minutes	56 Minutes
6. Average river flow during periods of release:	34,933 ft ³ /sec	46,800 ft ³ /sec

b. Gaseous

1. Number of batch releases:	8	27
2. Total time period for batch releases:	4,486 Minutes	18,466 Minutes
3. Maximum time period for a batch release:	1,455 Minutes	1,113 Minutes
4. Average time period for batch releases:	561 Minutes	684 Minutes
5. Minimum time period for a batch release:	5 Minutes	1 Minutes

6. Abnormal Releases

a. Liquid

1. Number of releases:	1	0
2. Total activity released: Ci	5.09 E-4	0

b. Gaseous

1. Number of releases:	4	4
2. Total activity released: Ci	2.62	0.76

TABLE 1A
1st Half - 1987
SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter	Quarter	Est. Total Error, %
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A. Fission & activation gases

		1st	2nd	
1. Total release	Ci	9.32 E0	1.19 E+2	2.65 E+1
2. Average release rate for period	μCi/sec	1.18 E0	1.51 E+1	
3. Percent of technical specification limit	%	N/A	N/A	

B. Iodines

1. Total iodine-131	Ci	2.92 E-4	3.55 E-3	2.83 E+1
2. Average release rate for period	μCi/sec	3.71 E-5	4.51 E-4	
3. Percent of technical specification limit	%	1.17 E-1	1.42 E0	

C. Particulates

1. Particulates with half-lives >8 days	Ci	1.36 E-4	9.45 E-5	3.00 E+1
2. Average release rate for period	μCi/sec	1.73 E-5	1.20 E-5	
3. Percent of technical specification limit	%	N/A	N/A	
4. Gross alpha radioactivity	Ci	6.46 E-7	6.89 E-7	

D. Tritium

1. Total release	Ci	4.69 E+1	9.15 E0	3.29 E+1
2. Average release rate for period	μCi/sec	5.95 E0	1.16 E0	
3. Percent of technical specification limit	%	N/A	N/A	

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 is the average amount of seconds per calendar quarter (7.88E + 6 seconds).

B.3 is based on a nominal limit of 0.25 Ci/quarter (10 CFR 50 Appendix I, RM-50-2, C.2 limits this value to 1 Ci/yea).

TABLE 1B
1st Half - 1987

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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	LLD	1.62 E+1	1.89 E-1	9.45 E-1
krypton-85m	Ci	LLD	LLD	LLD	LLD
krypton-87	Ci	LLD	LLD	LLD	LLD
krypton-88	Ci	LLD	LLD	LLD	LLD
xenon-133	Ci	5.75 E-1	9.37 E-1	5.56 E-1	LLD
xenon-133m	Ci	LLD	LLD	4.52 E-4	LLD
xenon-135	Ci	3.22 E-2	3.76 E-2	LLD	LLD
xenon-135m	Ci	LLD	LLD	LLD	LLD
xenon-138	Ci	LLD	LLD	LLD	LLD
xenon-131m	Ci	LLD	LLD	1.74 E-2	LLD
unidentified	Ci	NONE	NONE	NONE	NONE
Total for period	Ci	6.07 E-1	1.72 E+1	7.63 E-1	9.45 E-1

2. Iodines

iodine-131	Ci	2.07 E-6	2.86 E-5	2.95 E-7	LLD
iodine-133	Ci	LLD	LLD	LLD	LLD
iodine-135	Ci	LLD	LLD	LLD	LLD
Total for period	Ci	2.07 E-6	2.86 E-5	2.95 E-7	LLD

3. Particulates

manganese-54	Ci	LLD	LLD	LLD	LLD
iron-59	Ci	LLD	LLD	LLD	LLD
cobalt-58	Ci	LLD	LLD	LLD	LLD
cobalt-60	Ci	1.76 E-5	1.40 E-6	5.37 E-6	2.02 E-5
zinc-65	Ci	LLD	LLD	LLD	LLD
strontium-89	Ci	LLD	LLD	LLD	LLD
strontium-90	Ci	LLD	LLD	LLD	LLD
molybdenum-99	Ci	LLD	LLD	LLD	LLD
cesium-134	Ci	LLD	LLD	LLD	LLD
cesium-137	Ci	LLD	LLD	LLD	8.61 E-7
cerium-141	Ci	LLD	LLD	LLD	LLD
cerium-144	Ci	LLD	LLD	LLD	LLD
	Ci				
	Ci				
Total for period	Ci	1.76 E-5	1.40 E-6	5.37 E-6	2.11 E-5

LLD = Below the lower limit of detectability, in $\mu\text{Ci/cc}$ (Table 4).

TABLE 1C
1st Half - 1987
SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter	Quarter	Quarter	Quarter

1. Fission gases

		1st	2nd	1st	2nd
krypton-85	Ci	7.28 E-1	3.98 E0	LLD	3.58 E0
krypton-85m	Ci	LLD	LLD	LLD	LLD
krypton-87	Ci	LLD	LLD	LLD	LLD
krypton-88	Ci	LLD	LLD	LLD	LLD
xenon-133	Ci	3.88 E0	7.24 E+1	2.61 E0	2.00 E+1
xenon-133m	Ci	LLD	LLD	LLD	1.66 E-1
xenon-135	Ci	7.33 E-1	LLD	LLD	3.80 E-2
xenon-135m	Ci	LLD	LLD	LLD	LLD
xenon-138	Ci	LLD	LLD	LLD	LLD
xenon-131m	Ci	LLD	LLD	LLD	3.36 E-1
unidentified	Ci	NONE	NONE	NONE	NONE
Total for period	Ci	5.34 E0	7.64 E+1	2.61 E0	2.41 E+1

2. Iodines

iodine-131	Ci	2.90 E-4	3.50 E-3	LLD	2.08 E-5
iodine-133	Ci	LLD	2.32 E-4	LLD	LLD
iodine-135	Ci	LLD	LLD	LLD	LLD
Total for period	Ci	2.90 E-4	3.73 E-3	LLD	2.08 E-5

3. Particulates

manganese-54	Ci	LLD	LLD	LLD	LLD
iron-54	Ci	LLD	LLD	LLD	LLD
cobalt-58	Ci	5.50 E-6	2.18 E-5	LLD	7.62 E-6
cobalt-60	Ci	6.60 E-5	2.96 E-5	LLD	1.30 E-5
zinc-65	Ci	LLD	LLD	LLD	LLD
strontium-89	Ci	LLD	LLD	LLD	LLD
strontium-90	Ci	LLD	LLD	LLD	LLD
molybdenum-99	Ci	LLD	LLD	LLD	LLD
cesium-134	Ci	LLD	LLD	LLD	LLD
cesium-137	Ci	2.91 E-5	LLD	LLD	LLD
cerium-141	Ci	LLD	LLD	LLD	LLD
cerium-144	Ci	LLD	LLD	LLD	LLD
niobium-95	Ci	1.26 E-5	LLD	LLD	LLD
Total for period	Ci	1.13 E-4	5.14 E-5	LLD	2.06 E-5

LLD = Below the lower limit of detectability, in $\mu\text{Ci/cc}$ (Table 4).

TABLE 2A
1st Half - 1987
SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Unit	Quarter	Quarter	Est. Total Error, %
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A. Fission & activation products

		1st	2nd	
1. Total release (not including tritium, gases, alpha)	Ci	7.54 E-3	1.70 E-2	2.60 E+1
2. Average diluted concentration during period	µCi/ml	4.62 E-8	3.81 E-8	
3. Percent of applicable limit	%	6.03 E-1	1.36 E0	

B. Tritium

1. Total release	Ci	6.02 E+1	8.05 E+1	2.50 E+1
2. Average diluted concentration during period	µCi/ml	3.69 E-4	1.81 E-4	
3. Percent of applicable limit	%	1.23 E+1	6.03 E+0	

C. Dissolved and entrained gases

1. Total release	Ci	1.55 E-4	2.64 E-4	2.70 E+1
2. Average diluted concentration during period	µCi/ml	9.49 E-10	5.92 E-10	
3. Percent of applicable limit	%	4.75 E-4	2.96 E-4	

D. Gross alpha radioactivity

1. Total release	Ci	1.61 E-7	LLD	2.89 E+1
E. Volume of waste released (prior to dilution)	liters	3.55 E+5	7.40 E+5	1.12 E+1
F. Volume of dilution water used during period	liters	1.63 E+8	4.45 E+8	2.29 E+1

LLD = Below the lower limit of detectability, in µCi/cc (Table 4).

A.3 is based on a nominal limit of 1.25 Ci/quarter (10 CFR 50 Appendix I, RM-50-2, A.2 limits this value to 5 Ci/year).

B.3 is based on a limit of 3.00E-3 µCi/ml.

C.3 is based on a limit of 2.00E-4 µCi/ml.

The values listed at F. are merely the volumes during the actual liquid waste discharge periods. The total dilution volume for a continuous calendar quarter is = 7.48E9 liters.

TABLE 2B
1st Half - 1987
SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter	Quarter	Quarter	Quarter
		1st	2nd	1st	2nd
strontium-89	Ci	N/A	N/A	LLD	LLD
strontium-90	Ci	N/A	N/A	5.85 E-6	LLD
cesium-134	Ci	N/A	N/A	1.09 E-6	3.44 E-5
cesium-137	Ci	N/A	N/A	2.21 E-4	3.88 E-4
iodine-131	Ci	N/A	N/A	LLD	LLD
cobalt-57	Ci	N/A	N/A	LLD	LLD
cobalt-58	Ci	N/A	N/A	6.28 E-4	8.49 E-4
cobalt-60	Ci	N/A	N/A	2.21 E-3	8.69 E-3
iron-59	Ci	N/A	N/A	LLD	LLD
zinc-65	Ci	N/A	N/A	LLD	LLD
manganese-54	Ci	N/A	N/A	LLD	LLD
chromium-51	Ci	N/A	N/A	LLD	LLD
iron-55	Ci	N/A	N/A	3.44 E-3	3.98 E-3
zirconium-niobium-95	Ci	N/A	N/A	LLD	LLD
molybdenum-99	Ci	N/A	N/A	LLD	LLD
technetium-99M	Ci	N/A	N/A	LLD	LLD
barium-lanthanum-140	Ci	N/A	N/A	LLD	LLD
cerium-141	Ci	N/A	N/A	LLD	LLD
	Ci	N/A	N/A		
antimony-125	Ci	N/A	N/A	9.96 E-4	3.05 E-3
	Ci	N/A	N/A		
	Ci	N/A	N/A		
niobium-97	Ci	N/A	N/A	3.85 E-5	2.09 E-5
unidentified	Ci	N/A	N/A	NONE	NONE
Total for period (above)	Ci	N/A	N/A	7.54 E-3	1.70 E-2
xenon-133	Ci	N/A	N/A	1.55 E-4	2.64 E-4
xenon-135	Ci	N/A	N/A	LLD	LLD
	Ci	N/A	N/A		
	Ci	N/A	N/A		
	Ci	N/A	N/A		
	Ci	N/A	N/A		
	Ci	N/A	N/A		

LLD = Below the lower limit of detectability, in $\mu\text{Ci/cc}$ (Table 4).

N/A = NOT APPLICABLE (liquids not discharged in a continuous mode).

TABLE 3
SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
1st Half - 1987

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

		TYPE OF WASTE			Est. Total Error, %
		Spent resins filter sludges evaporator bottoms	Dry compressible waste contaminated equipment etc.	Irradiated Components control rods etc.	
Container Volume(m ³)		3.37 E0	2.44 E+1	NONE	3.0 E+1
Total Activity (Ci)		2.94 E+1	3.32 E-1	NONE	3.0 E+1
Principal Radionuclide Composition (%)	H-3	5.65 E-1	1.41 E-1		
	C-14	5.17 E-3	1.97 E-1		
	P-32	5.40 E-4	---		
	Mn-54	3.80 E-1	6.54 E-1		
	Fe-55	6.27 E-1	3.32 E+1		
	Co-57	3.03 E-1	1.67 E-1		
	Co-58	1.47 E+1	1.30 E0		
	Co-60	4.74 E+1	4.89 E+1		
	Ni-59	4.12 E-1	2.03 E-1		
	Ni-63	3.17 E+1	1.32 E+1		
	Zn-65	1.86 E-3	---		
	Sr-89	---	---		
	Sr-90	1.74 E-1	7.50 E-2		
	Nb-94	---	---		
	Nb-95	5.44 E-3	2.88 E-1		
	Zr-95	2.39 E-3	---		
	Tc-99	5.07 E-5	7.65 E-4		
	Ru-106/Rh-106	4.69 E-3	---		
	Ag-110m	5.82 E-4	7.36 E-1		
	Sb-124	---	---		
	Sb-125	8.79 E-1	---		
	I-129	3.25 E-5	3.23 E-4		
	I-131	---	---		
	Cs-134	7.93 E-1	---		
	Cs-137	1.17 E0	---		
	Ce-144/Pr-144	2.14 E-1	4.36 E-1		
	Np-237/Pu-242	---	---		
	Pu-238	5.10 E-3	8.36 E-3		
Pu-239/240	3.16 E-3	2.90 E-3			
Pu-241	4.09 E-4	4.60 E-1			
Am-241	7.55 E-4	1.80 E-3			
Cm-242	5.86 E-3	9.88 E-3			
Cm-243/244	1.09 E-3	2.66 E-3			
NUMBER OF SHIPMENTS	Type of Container	LSA	1	1	
		TYPE A	NONE	NONE	
		TYPE B	NONE	NONE	
		LARGE QUANTITY	NONE	NONE	
		OTHER	NONE	NONE	
	Solid Agent	CEMENT	NONE	NONE	
		UREA FORMALDEHYDE	NONE	NONE	
		NONE	1	1	
		OTHER	NONE	NONE	
	Mode of Trans.	TRUCK	1	1	
		RAIL	NONE	NONE	
		OTHER	NONE	NONE	
Destination	Barnwell, SC	1	1		
	Richland, WA	NONE	NONE		
	OTHER	NONE	NONE		

Total No. of Shipments 2

B. IRRADIATED FUEL SHIPMENTS NONE

TABLE 4

1st Half - 1987

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

LOWER LIMITS OF DETECTABILITY (LLD)

NUCLIDE	uCi/cc		
	GAS GRAB SAMPLE (1000 cc)	LIQUID GRAB SAMPLE (1000 cc)	FILTER PAPER/CHARCOAL CONTINUOUS EFFLUENT SAMPLE (5.0E 8 cc)
H-3	1.00 E-6	1.00 E-6	-----
Na-24	-----	4.66 E-8	-----
Ar-41	7.07 E-7	-----	-----
Cr-51	3.85 E-8	4.23 E-7	7.7 E-14
Mn-54	1.10 E-8	8.20 E-8	2.2 E-14
Fe-55	-----	* 1.00 E-6	-----
Fe-59	2.45 E-8	1.68 E-7	4.9 E-14
Co-57	2.00 E-9	2.66 E-8	4.0 E-15
Co-58	6.50 E-9	3.37 E-8	1.3 E-14
Co-60	3.85 E-8	2.53 E-7	7.7 E-14
Zn-65	1.80 E-8	8.40 E-8	3.6 E-14
Kr-85	4.16 E-6	5.83 E-6	* 1.0 E-10
Kr-85m	7.63 E-9	-----	-----
Kr-87	1.43 E-8	-----	-----
Kr-88	3.57 E-7	-----	-----
Sr-89	-----	* 5.00 E-8	* 1.00 E-13
Sr-90	-----	* 5.00 E-8	* 1.00 E-14
Sr-92	-----	5.18 E-8	-----
Nb-95	-----	3.18 E-8	-----
Nb-97	-----	2.86 E-8	-----
Zr-95	-----	1.08 E-7	-----
Mo-99	1.65 E-5	1.51 E-7	3.3 E-14
Tc-99m	-----	3.87 E-8	-----
Ag-110m	-----	2.92 E-8	-----
Sb-124	-----	2.67 E-8	-----
Sb-125	-----	3.93 E-8	-----
I-131	2.50 E-8	2.13 E-8	5.0 E-14
I-133	3.25 E-8	2.59 E-8	6.5 E-14
Xe-131m	3.04 E-7	5.14 E-7	-----
Xe-133	1.84 E-8	2.95 E-8	-----
Xe-133m	1.12 E-7	2.07 E-7	-----
Xe-135	1.03 E-8	1.74 E-8	-----
Xe-135m	2.19 E-8	-----	-----
Xe-138	8.82 E-8	1.36 E-7	-----
Cs-134	6.50 E-9	3.37 E-8	1.3 E-14
Cs-137	6.50 E-9	4.03 E-8	1.3 E-14
Ba-139	-----	5.48 E-8	-----
Ba-140	2.20 E-8	1.87 E-7	4.4 E-14
La-140	1.10 E-8	6.63 E-8	2.2 E-14
Ce-141	2.25 E-9	2.08 E-8	4.5 E-15
Ce-144	1.00 E-8	8.83 E-8	2.0 E-14
Gross Alpha	-----	* 1.00 E-7	9.8 E-17

All LLDs listed above meet the minimum requirements listed in Tables 4.11-1 and 4.11-2 of the Technical Specifications.

*Sample analyses performed by a contractor laboratory.

TABLE 5

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
ASSESSMENT OF RADIATION DOSES

LIQUID EFFLUENTS Batch Releases	1st QUARTER		2nd QUARTER		3rd QUARTER		4th QUARTER		YEAR	
	Dose	% of Tech Spec Limit	Dose	% of Tech Spec Limit	Dose	% of Tech Spec Limit	Dose	% of Tech Spec Limit	Dose	% of Tech Spec Limit
BONE	1.15 E-2	0.230	2.37E-2	0.474						
LIVER	1.61 E-2	0.322	3.21E-2	0.642						
TOTAL BODY	1.13 E-2	0.753	2.30E-2	1.533						
THYROID	1.51 E-3	0.030	3.28E-3	0.066						
KIDNEY	6.33 E-3	0.127	1.27E-2	0.254						
LUNG	3.33 E-3	0.067	6.92E-3	0.138						
GI-LLI	3.98 E-3	0.080	1.02E-2	0.204						

ORGAN (1)

GASEOUS EFFLUENTS Batch and Continuous Releases	1st QUARTER		2nd QUARTER		3rd QUARTER		4th QUARTER		YEAR	
	Dose	% of Tech Spec Limit	Dose	% of Tech Spec Limit	Dose	% of Tech Spec Limit	Dose	% of Tech Spec Limit	Dose	% of Tech Spec Limit
BETA AIR (2)	5.56 E-2	0.556	1.69E-1	1.690						
GAMMA AIR (2)	1.44 E-2	0.288	2.88E-2	0.576						
BONE	7.22 E-4	0.010	8.47E-4	0.011						
LIVER	3.40 E-3	0.045	1.82E-2	0.243						
TOTAL BODY	3.29 E-3	0.044	1.80E-2	0.240						
THYROID	7.60 E-3	0.101	8.58E-2	1.144						
KIDNEY	3.32 E-3	0.044	1.83E-2	0.244						
LUNG	3.48 E-3	0.046	1.81E-2	0.241						
GI-LLI	3.31 E-3	0.044	1.79E-2	0.239						

ORGAN (2)

- (1) These doses are listed in mrem; they are calculated for the maximum individual for all batch liquid effluents.
- (2) These doses are listed in mrad; they are calculated at the site boundary for all batch and continuous effluents (0.4 miles NW).
- (3) These doses are listed in mrem, they are calculated for the likely most exposed real individual (child) via all real pathways at 1.1 miles NW. Limits used for calculation of % are from Section 3/4.11, Article 3.11.1.2, 3.11.2.1, 3.11.2.2 and 3.11.2.3 of the Technical Specifications.

TABLE 6

1st Half - 1987

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

TECHNICAL SPECIFICATION EFFLUENT MONITORING INSTRUMENTATION
CHANNELS NOT RETURNED TO OPERABLE STATUS WITHIN 30 DAYS

(RM-GW-101) - Waste Gas Decay Tanks Radiation Monitor and its
Sampler Flow-Rate Measuring Device

As previously reported, this monitor has been unreliable for
our entire operating period.

A task force was appointed in 1986 to resolve the problems
contributing to the inoperability. The task force concluded
that:

- 1) Repair of the monitor is not feasible due to
unresolvable design problems apparent with the present
installation.
- 2) Replacement of the monitor with an updated version
would involve a major redesign which is not warranted
at this time.

The above conclusions are based on the fact that although this
monitor is required by our Technical Specifications, there is
no other basis for its use. For example, NUREG 0472 Rev 2
Tables 3.3-13 and 4.3-13 and no reference to a radiation
monitor or a sampler flow rate measuring device on the Waste
Gas Holdup System, Explosive Gas Monitoring System.

DLC has submitted a Technical Specification Change Request to
remove RM-GW-101 operability requirements and to revise the
surveillance requirement so that Waste Gas Decay Tank activity
levels can be related to Reactor Coolant System concentration.

Beaver Valley
Joint Frequency Distribution Tables
for
Continuous Release

Delta T (150ft-35ft) and 35-Ft Wind
and
Delta T (500ft-35ft) and 500-Ft Wind

First Quarter 1987

PROGRAM: JFD VERSION: 5P
 BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH
 BETWEEN 150.0 AND 35.0 FEET
 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	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
0.76-3.50	11	12	30	18	10	0	4	1	2	0	0	1	6	0	1	1	105
3.51-7.50	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
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	4	1	3	1	0	1	6	1	1	1	112
TOTAL	13	12	30	18	11	9	4	1	3	1	0	1	6	1	1	1	112

STABILITY CLASS B

STABILITY BASED ON: DELTA T
 WIND MEASURED AT: 35.0 FEET
 WIND THRESHOLD AT: 0.75 MPH
 BETWEEN 150.0 AND 35.0 FEET
 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	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
0.76-3.50	4	6	6	0	3	0	1	0	0	0	0	2	3	1	0	2	34
3.51-7.50	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	4
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	1	0	0	1	0	0	4	3	0	0	39
TOTAL	4	6	6	6	3	1	1	0	0	1	0	2	4	3	0	2	39

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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
0.76- 3.50	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0
3.51- 7.50	4	3	0	0	3	1	1	0	0	3	1	0	5	3	1	4	30
7.51- 12.50	1	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	6
12.51- 18.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	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	5	3	0	1	3	1	1	2	0	3	4	0	8	3	1	5	40

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
0.76- 3.50	18	16	24	23	11	9	6	7	4	7	7	9	15	8	12	12	188
3.51- 7.50	54	32	15	23	10	4	0	2	15	15	52	60	100	65	58	44	549
7.51- 12.50	14	5	0	0	0	0	0	0	0	2	14	39	45	20	24	3	166
12.51- 18.50	0	0	0	0	0	0	0	0	0	0	3	4	2	0	1	0	10
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	86	53	39	46	21	13	6	9	19	24	76	112	162	93	95	59	916

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBY2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T
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	N	WNW	NW	NW	TOTAL
CALM	18	23	41	53	35	32	11	9	19	13	11	9	17	16	21	18	17
0.76-3.50	7	1	6	31	12	2	0	6	9	25	15	21	16	14	8	0	343
3.51-7.50	0	0	0	0	0	0	0	0	0	4	12	9	8	0	1	0	184
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	34
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	26	24	47	84	47	34	11	15	28	42	38	40	39	30	30	27	579

STABILITY CLASS F

STABILITY BASED ON: DELTA T
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	3	4	19	23	20	38	40	22	7	2	1	1	0	1	0	182
0.76-3.50	0	0	0	0	0	0	0	0	5	1	3	0	0	0	0	0	9
3.51-7.50	0	0	0	0	0	0	0	0	0	1	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
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	3	4	19	23	29	38	40	27	9	5	1	1	0	1	0	198

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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
0.76- 3.50	3	1	2	5	16	32	96	68	22	5	1	3	1	0	0	1	12
3.51- 7.50	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	256
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	3	1	2	5	16	32	96	68	23	6	1	3	1	0	0	1	271

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
0.76- 3.50	41	43	71	101	86	95	151	125	67	32	22	22	30	24	34	31	975
3.51- 7.50	80	54	57	78	38	15	6	10	32	45	71	84	132	83	68	60	913
7.51-12.50	17	5	0	0	0	0	0	0	1	9	28	48	56	23	25	4	216
12.51-18.50	0	0	0	0	0	0	0	0	0	0	3	5	3	0	1	0	12
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	138	102	128	179	124	110	157	135	100	86	124	159	221	130	128	95	2155

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBY2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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: 2155

TOTAL NUMBER OF MISSING OBSERVATIONS: 5

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.8 %

MEAN WIND SPEED FOR THIS PERIOD: 4.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
5.20	1.81	1.86	42.51	26.87	9.19	12.58

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	13	12	30	18	11	9	4	1	3	1	0	1	6	1	1	1	0
B	4	6	6	6	3	1	1	0	0	3	4	0	4	3	0	2	0
C	5	3	0	1	3	1	1	2	0	3	4	0	8	3	1	5	0
D	86	53	39	46	21	13	6	9	19	24	76	112	162	93	95	59	3
E	26	24	47	84	47	34	11	15	28	42	38	40	39	30	30	27	17
F	1	3	4	19	23	20	38	40	27	9	5	1	1	0	1	0	6
G	3	1	2	5	16	32	96	68	23	6	1	3	1	0	0	1	13
TOTAL	138	102	128	179	124	110	157	135	100	86	124	159	221	130	128	95	39

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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	1	2	0	0	0	0	0	0	0	0	0	0	0	4
7.51-12.50	1	0	7	17	4	3	0	0	0	0	0	0	0	0	0	0	32
12.51-18.50	2	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	6
18.51-24.00	0	0	0	0	0	0	0	0	0	1	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	3	0	8	21	5	5	0	0	0	1	0	0	0	0	0	0	43

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																	
0.76-3.50	4	3	7	4	5	4	3	1	1	1	4	0	4	3	2	3	49
3.51-7.50	8	14	15	14	20	20	8	4	5	6	4	10	13	14	21	9	185
7.51-12.50	66	21	30	49	33	31	18	12	12	13	20	39	57	43	48	47	539
12.51-18.50	31	19	14	28	6	20	6	7	6	7	38	74	108	74	31	26	451
18.51-24.00	3	6	0	0	4	0	2	2	2	1	7	28	43	29	4	1	124
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	17	13	1	0	32
TOTAL	112	63	66	95	68	75	37	26	26	28	73	100	242	176	107	86	1380

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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
0.76- 3.50	7	4	4	5	4	7	6	1	2	2	1	13	7	4	3	3	73
3.51- 7.50	5	6	13	11	14	10	10	7	6	5	7	12	9	6	10	7	142
7.51-12.50	13	7	19	19	11	15	8	8	12	7	5	10	15	5	4	5	143
12.51-18.50	4	6	4	13	1	5	3	2	1	1	13	5	5	0	0	2	65
18.51-24.00	0	0	0	3	0	0	3	2	0	0	0	0	0	0	0	0	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	29	23	30	51	30	31	30	20	21	15	28	40	36	15	17	17	437

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
0.76- 3.50	3	2	1	6	8	5	6	2	1	0	3	4	4	1	4	4	54
3.51- 7.50	6	10	19	18	17	5	5	3	2	2	2	6	4	6	7	6	117
7.51-12.50	2	3	4	8	5	4	2	1	3	4	9	2	4	0	1	0	52
12.51-18.50	0	0	0	4	3	3	0	0	0	2	7	1	0	0	0	0	21
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	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	11	15	24	36	33	17	13	6	6	8	22	13	12	7	12	10	247

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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
0.76- 3.50	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1	0	4
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	4	11	2	0	0	0	17
7.51-12.50	1	0	0	0	0	0	0	0	1	0	1	2	7	0	0	0	16
12.51-18.50	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	3
18.51-24.00	0	0	0	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	1
TOTAL	1	1	0	1	0	4	0	0	1	0	10	13	9	0	1	0	41

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
0.76- 3.50	14	10	12	15	17	16	15	4	4	3	10	17	15	8	10	10	180
3.51- 7.50	19	30	47	44	52	41	23	14	13	13	17	39	27	26	38	22	465
7.51-12.50	83	31	51	97	53	47	28	21	28	24	35	53	83	48	53	52	787
12.51-18.50	37	25	19	49	10	30	10	9	7	10	60	74	114	74	31	28	549
18.51-24.00	3	6	0	3	4	0	5	4	2	2	11	20	43	29	4	1	137
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	17	13	1	0	32
TOTAL	156	102	129	208	136	134	81	52	54	52	133	166	299	198	137	113	2156

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBVZ
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2150

TOTAL NUMBER OF MISSING OBSERVATIONS: 4

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.8 %

MEAN WIND SPEED FOR THIS PERIOD: 10.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	0.37	1.99	64.01	20.27	11.46	1.90

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	1	4	0	2	1	0	0	0	0	0	0	0	0	0	0
C	3	0	8	21	5	5	0	0	0	1	0	0	0	0	0	0	0
D	112	63	66	95	68	75	37	26	26	28	73	100	242	176	107	86	0
E	29	23	30	51	30	31	30	20	21	15	28	40	36	15	17	17	0
F	11	15	24	36	33	17	13	6	6	8	22	13	12	7	12	10	4
G	1	1	0	1	0	4	0	0	1	0	10	13	9	0	1	0	2
TOTAL	156	102	129	208	136	134	81	52	54	52	133	166	299	198	137	113	6

Beaver Valley
Joint Frequency Distribution Tables
for
Batch Releases

First Quarter 1987

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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
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	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
>24.00	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	0	0	0	0	0	0	0	0	0	1

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
0.76- 3.50	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	1	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
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	3

PROGRAM: JFD VERSION: 5P
 BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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	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 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.76- 3.50	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3.51- 7.50	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2
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	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	5

PROGRAM: JFD VERSION: 5P
 BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
 SITE IDENTIFIER: DLBY2
 DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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: 5
 TOTAL NUMBER OF VALID OBSERVATIONS: 5
 TOTAL NUMBER OF MISSING OBSERVATIONS: 0
 PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %
 MEAN WIND SPEED FOR THIS PERIOD: 3.4 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	20.00	60.00	20.00	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
E	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	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	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0

PROGRAM: JFG VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBY2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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	WNN	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	1	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	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1

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	WNN	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	0	0	0	0	0	0	1	0	0	0	0	2
7.51-12.50	0	0	0	0	3	14	1	3	0	1	3	2	6	0	0	0	33
12.51-18.50	0	0	0	0	0	8	1	3	1	1	1	0	2	0	0	0	17
18.51-24.00	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	4	22	3	6	2	2	5	3	8	0	0	0	55

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLB72
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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	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	2	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	1	2	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	0	0	0	0	0	0	2	1	2	0	1	0	0	0	0	0	6

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	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	1	0	0	0	0	1
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2
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	1	1	2	0	0	0	4

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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
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	1	5	7	0	0	0	13

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
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	0	2	0	0	0	2	6	3	0	0	0	1
7.51-12.50	0	0	0	0	3	14	1	4	2	1	4	2	12	0	0	0	43
12.51-18.50	0	0	0	0	0	8	1	3	1	1	1	0	2	0	0	0	17
18.51-24.00	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	4	22	5	7	4	3	8	9	17	0	0	0	79

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/87 - 3/31/87

*** FIRST QUARTER 1987 ***

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: 79

TOTAL NUMBER OF VALID OBSERVATIONS: 79

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 10.7 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	1.27	69.62	7.59	5.06	16.46

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	4	22	3	6	2	2	5	3	8	0	0	0	0
D	0	0	0	0	0	0	2	1	2	0	1	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	1	5	7	0	0	0	0
G	0	0	0	0	0	0	0	0	4	3	8	9	17	0	0	0	0
TOTAL	0	0	0	0	4	22	5	7	4	3	8	9	17	0	0	0	0

Beaver Valley
Listings of Meteorological Data
for
Periods of Ground-Level Gaseous Effluent Releases

First Quarter 1987

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA GROUND LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1987

YR	MO	DY	HR	-----35 FT-----				-----150 FT-----				-----500 FT-----							
				WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC(	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC(	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC(	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC(	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC(
87	1	3	10	4.9	268	99.9	8.5	272	99.9	13.1	274	99.9	31.8	28.8	-0.5	D	-2.2	D	0.00
87	2	14	3	1.4	60	99.9	3.6	70	99.9	4.9	98	99.9	24.2	14.1	-0.2	E	-1.8	D	0.00
87	2	14	4	1.6	52	99.9	3.0	67	99.9	5.2	115	99.9	25.0	13.1	-0.6	D	-2.3	D	0.00
87	3	23	18	3.5	97	99.9	7.2	91	99.9	11.1	95	99.9	62.5	26.8	-0.5	D	-2.4	D	0.00
87	3	28	16	5.2	357	99.9	7.4	349	99.9	8.5	353	99.9	64.4	41.0	-1.0	C	-3.2	D	0.00

Beaver Valley
Listings of Meteorological Data
for
Periods of Elevated Gaseous Effluent Releases

First Quarter 1987

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA ELEVATED BATCH RELEASES FOR THE FIRST QUARTER 1987

YR	MO	DY	HR	WIND SPEED (MPH)		WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)		WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)		WIND DIR (DEG)	STD DEV (DEG)	SC	AMB TEMP 35F (F)	DEW POINT 35F (F)	DELTA T (F)		DELTA T 500-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
				WIND SPEED (MPH)	WIND DIR (DEG)				WIND SPEED (MPH)	WIND DIR (DEG)				WIND SPEED (MPH)	WIND DIR (DEG)						DELTA T 15-35 (F)	DELTA T 35-500 (F)			
87	1	13	2	4.2	255	6.9	99.9	-	10.8	270	99.9	-	33.7	999.9	-0.4	D	-2.1	D	0.00						
87	1	13	3	2.4	292	4.1	99.9	-	8.4	270	99.9	-	33.7	999.9	-0.3	E	-1.8	D	0.00						
87	1	13	4	2.4	296	5.4	99.9	-	9.0	273	99.9	-	33.8	999.9	-0.3	E	-1.9	D	0.00						
87	1	13	5	4.8	249	9.4	99.9	-	11.7	269	99.9	-	34.1	999.9	-0.4	D	-2.1	D	0.00						
87	1	13	6	4.4	256	8.5	99.9	-	13.0	273	99.9	-	34.2	999.9	-0.5	D	-2.3	D	0.00						
87	1	13	7	5.3	249	8.8	99.9	-	11.6	267	99.9	-	34.2	999.9	-0.5	D	-2.3	D	0.00						
87	1	13	8	4.8	257	9.7	99.9	-	13.3	278	99.9	-	34.3	999.9	-0.5	D	-2.3	D	0.00						
87	1	13	9	4.5	256	7.2	99.9	-	10.3	266	99.9	-	35.0	999.9	-0.5	D	-2.6	D	0.00						
87	1	13	10	4.1	235	4.9	99.9	-	6.8	242	99.9	-	37.4	999.9	-0.8	D	-2.9	D	0.00						
87	1	13	11	6.1	251	8.4	99.9	-	9.9	253	99.9	-	38.8	999.9	-1.0	C	-3.2	D	0.00						
87	1	13	12	6.5	226	9.2	99.9	-	11.3	234	99.9	-	39.7	999.9	-0.9	D	-3.1	D	0.00						
87	1	13	13	8.0	219	10.7	99.9	-	12.9	218	99.9	-	40.3	999.9	-0.7	D	-2.8	D	0.00						
87	1	13	14	4.5	248	6.9	99.9	-	8.3	247	99.9	-	41.9	999.9	-0.9	D	-3.0	D	0.00						
87	1	13	15	5.7	218	7.8	99.9	-	9.2	227	99.9	-	42.4	999.9	-0.7	D	-2.8	D	0.00						
87	1	13	16	4.1	220	5.9	99.9	-	7.8	214	99.9	-	40.1	999.9	-0.7	D	-2.8	D	0.00						
87	1	13	17	1.7	122	3.7	99.9	-	5.9	217	99.9	-	40.1	999.9	1.3	F	4.7	E	0.00						
87	1	13	18	1.4	122	5.7	99.9	-	9.7	218	99.9	-	34.7	999.9	3.9	G	4.8	D	0.00						
87	2	14	3	1.5	60	3.6	99.9	-	4.9	98	99.9	-	33.6	999.9	-0.2	E	-1.7	D	0.00						
87	2	14	6	3.3	78	7.6	99.9	-	10.0	88	99.9	-	42.9	999.9	-0.9	D	-3.0	D	0.00						
87	2	14	4	4.6	104	8.4	99.9	-	13.0	109	99.9	-	43.8	999.9	-0.9	D	-3.0	D	0.00						
87	2	14	15	6.1	108	10.9	99.9	-	14.9	109	99.9	-	43.0	999.9	-0.8	D	-2.9	D	0.00						
87	2	14	16	5.7	87	10.2	99.9	-	13.3	104	99.9	-	42.1	999.9	-0.5	D	-2.4	D	0.00						
87	2	14	17	3.9	81	6.6	99.9	-	11.3	107	99.9	-	41.5	999.9	-0.3	E	-2.1	D	0.00						
87	2	14	18	4.7	85	7.5	99.9	-	10.5	110	99.9	-	40.9	999.9	-0.3	E	-2.2	D	0.00						
87	2	14	19	4.9	97	8.7	99.9	-	15.9	124	99.9	-	38.5	999.9	-0.3	E	-2.2	D	0.00						
87	2	14	20	5.1	112	9.5	99.9	-	19.1	111	99.9	-	38.9	999.9	-0.3	E	-2.1	D	0.00						
87	2	14	21	5.0	79	8.2	99.9	-	17.2	110	99.9	-	38.5	999.9	-0.4	D	-2.2	D	0.00						
87	2	14	22	5.1	74	7.5	99.9	-	14.4	111	99.9	-	38.5	999.9	-0.3	E	-2.2	D	0.00						
87	2	14	23	5.2	74	7.2	99.9	-	13.0	105	99.9	-	38.8	999.9	-0.3	E	-2.1	D	0.00						
87	2	14	24	4.2	61	8.1	99.9	-	9.3	104	99.9	-	38.8	999.9	-0.3	E	-2.0	D	0.00						
87	2	14	25	3.8	54	8.3	99.9	-	10.2	104	99.9	-	39.7	999.9	-0.3	E	-2.0	D	0.00						
87	2	14	26	3.9	58	8.5	99.9	-	9.9	98	99.9	-	39.8	999.9	-0.3	E	-2.0	D	0.00						
87	2	14	27	3.5	59	7.3	99.9	-	11.1	104	99.9	-	39.8	999.9	-0.3	E	-2.0	D	0.00						
87	2	14	28	3.3	65	6.5	99.9	-	11.8	111	99.9	-	25.6	999.9	-0.2	E	-2.0	D	0.00						
87	2	14	29	2.7	73	5.7	99.9	-	9.6	112	99.9	-	27.0	999.9	-0.2	E	-1.9	D	0.00						
87	2	14	30	3.6	58	7.5	99.9	-	10.9	105	99.9	-	28.1	999.9	-0.4	D	-2.3	D	0.00						
87	2	14	31	4.1	81	7.2	99.9	-	10.9	107	99.9	-	30.1	999.9	-1.0	C	-3.1	D	0.00						
87	2	14	32	4.4	87	7.7	99.9	-	11.4	105	99.9	-	32.4	999.9	-1.1	C	-3.2	D	0.00						
87	2	14	33	4.8	95	8.1	99.9	-	10.8	118	99.9	-	32.4	999.9	-1.1	C	-3.2	D	0.00						
87	2	14	34	4.8	118	9.2	99.9	-	10.3	114	99.9	-	33.3	999.9	-1.2	C	-3.3	D	0.00						
87	2	14	35	7.0	93	12.1	99.9	-	15.3	111	99.9	-	34.5	999.9	-1.2	C	-3.3	D	0.00						
87	2	14	36	4.3	95	8.7	99.9	-	9.6	106	99.9	-	34.5	999.9	-1.1	C	-3.3	D	0.00						
87	2	14	37	1.9	166	4.7	99.9	-	7.0	260	99.9	-	34.5	999.9	-1.1	C	-3.3	D	0.00						
87	2	14	38	2.5	166	1.7	99.9	-	7.0	262	99.9	-	34.5	999.9	-1.1	C	-3.3	D	0.00						
87	2	14	39	2.5	197	3.3	99.9	-	4.6	244	99.9	-	48.1	999.9	-5.7	G	8.2	F	0.00						
87	2	14	40	2.2	169	2.6	99.9	-	6.4	226	99.9	-	45.1	999.9	-6.2	G	10.8	G	0.00						

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

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA ELEVATED BATCH RELEASES FOR THE FIRST QUARTER 1987

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

YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	AMB TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	DELTA T SC (F)	DELTA T SC (F)	RAIN FALL SC(IN)
87	3	7	23	1.3	160	99.9	--	4.0	245	99.9	--	7.0	257	99.9	--	42.3	34.3	6.5	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	7	24	0.9	157	99.9	--	4.2	257	99.9	--	7.6	260	99.9	--	40.2	34.2	5.5	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	8	1	1.5	168	99.9	--	4.5	265	99.9	--	9.2	266	99.9	--	38.7	33.8	5.1	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	8	2	3.1	194	99.9	--	5.2	257	99.9	--	9.6	259	99.9	--	39.6	33.9	2.6	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	8	3	2.3	188	99.9	--	6.1	274	99.9	--	8.9	263	99.9	--	37.9	33.5	3.2	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	8	4	0.9	161	99.9	--	3.6	253	99.9	--	7.1	246	99.9	--	37.9	33.5	3.1	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	8	5	0.7	157	99.9	--	2.8	244	99.9	--	7.0	261	99.9	--	34.5	32.5	2.9	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	8	6	1.1	164	99.9	--	2.6	233	99.9	--	7.1	266	99.9	--	33.6	32.1	2.8	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	8	7	1.8	183	99.9	--	3.7	256	99.9	--	8.2	261	99.9	--	33.3	32.1	2.8	G	11.9	G	0.00	0.00	0.00	0.00	0.00
87	3	8	8	2.2	180	99.9	--	3.8	242	99.9	--	6.7	236	99.9	--	36.5	33.6	0.0	E	10.7	G	0.00	0.00	0.00	0.00	0.00
87	3	8	9	1.7	276	99.9	--	1.6	253	99.9	--	4.7	240	99.9	--	41.1	35.2	0.0	E	10.7	G	0.00	0.00	0.00	0.00	0.00
87	3	8	10	1.9	280	99.9	--	2.0	222	99.9	--	1.0	253	99.9	--	48.2	35.2	0.0	E	10.7	G	0.00	0.00	0.00	0.00	0.00
87	3	25	1	2.6	124	99.9	--	6.2	135	99.9	--	16.0	155	99.9	--	58.2	30.2	0.0	E	7.8	F	0.00	0.00	0.00	0.00	0.00
87	3	25	2	3.0	113	99.9	--	4.8	128	99.9	--	15.5	149	99.9	--	57.9	30.0	0.0	E	7.8	F	0.00	0.00	0.00	0.00	0.00
87	3	25	3	2.5	104	99.9	--	4.8	134	99.9	--	14.0	151	99.9	--	57.0	30.8	0.0	E	7.8	F	0.00	0.00	0.00	0.00	0.00
87	3	25	4	2.9	88	99.9	--	4.8	137	99.9	--	12.3	152	99.9	--	56.4	31.7	0.1	E	7.8	F	0.00	0.00	0.00	0.00	0.00
87	3	25	5	2.0	30	99.9	--	3.9	152	99.9	--	11.0	145	99.9	--	55.6	32.3	0.1	E	7.8	F	0.00	0.00	0.00	0.00	0.00
87	3	25	6	2.5	56	99.9	--	3.3	56	99.9	--	17.4	155	99.9	--	52.7	33.5	1.3	F	0.8	E	0.00	0.00	0.00	0.00	0.00
87	3	25	7	2.7	56	99.9	--	4.3	67	99.9	--	9.3	149	99.9	--	51.1	34.5	1.9	F	0.8	E	0.00	0.00	0.00	0.00	0.00
87	3	25	8	1.7	17	99.9	--	1.7	120	99.9	--	8.7	170	99.9	--	53.0	35.1	0.0	E	0.8	E	0.00	0.00	0.00	0.00	0.00
87	3	25	9	4.2	191	99.9	--	6.1	201	99.9	--	9.0	210	99.9	--	50.5	40.6	0.0	E	1.7	D	0.02	0.01	0.01	0.01	0.01
87	3	25	10	2.4	88	99.9	--	4.6	100	99.9	--	7.1	136	99.9	--	54.4	47.0	0.0	E	1.7	D	0.00	0.00	0.00	0.00	0.00
87	3	25	11	2.9	62	99.9	--	4.6	85	99.9	--	7.6	114	99.9	--	49.4	49.4	0.0	E	1.1	B	0.00	0.00	0.00	0.00	0.00
87	3	25	12	4.1	135	99.9	--	7.5	143	99.9	--	10.6	127	99.9	--	50.5	50.5	0.0	E	1.1	B	0.00	0.00	0.00	0.00	0.00
87	3	25	13	3.9	103	99.9	--	6.9	114	99.9	--	23.6	216	99.9	--	59.8	50.6	0.0	E	1.4	D	0.40	0.17	0.17	0.17	0.17
87	3	25	14	10.2	205	99.9	--	15.1	212	99.9	--	20.3	198	99.9	--	48.0	48.0	0.0	E	3.9	D	0.17	0.17	0.17	0.17	0.17
87	3	25	15	6.6	187	99.9	--	11.2	190	99.9	--	20.3	184	99.9	--	47.9	47.9	0.0	E	2.3	D	0.00	0.00	0.00	0.00	0.00
87	3	25	16	5.9	175	99.9	--	9.4	177	99.9	--	15.1	177	99.9	--	48.3	48.3	0.0	E	2.3	D	0.00	0.00	0.00	0.00	0.00
87	3	25	17	5.6	174	99.9	--	7.5	177	99.9	--	14.7	195	99.9	--	47.3	47.3	0.0	E	0.4	D	0.00	0.00	0.00	0.00	0.00
87	3	25	18	4.4	196	99.9	--	7.5	196	99.9	--	11.3	178	99.9	--	48.3	48.3	0.0	E	1.2	E	0.00	0.00	0.00	0.00	0.00
87	3	25	19	3.1	147	99.9	--	7.2	159	99.9	--	11.3	178	99.9	--	55.5	48.3	1.2	E	1.2	E	0.00	0.00	0.00	0.00	0.00

Beaver Valley
Joint Frequency Distribution Tables
for
Continuous Release

Delta T (150ft-35ft) and 35-Ft Wind
and
Delta T (500ft-35ft) and 500-Ft Wind

Second Quarter 1987

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T
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
0.76- 3.50	2	4	0	0	4	7	1	2	0	1	0	3	0	1	2	3	45
3.51- 7.50	17	17	25	9	4	7	5	3	4	3	11	13	31	12	13	13	193
7.51-12.50	0	0	0	0	0	0	0	0	2	3	4	22	3	0	1	0	36
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
TOTAL	19	21	34	15	8	14	10	7	6	7	15	38	34	16	16	16	276

STABILITY CLASS B

STABILITY BASED ON: DELTA T
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
0.76- 3.50	1	1	0	0	2	1	1	0	0	0	2	0	1	1	0	1	11
3.51- 7.50	6	3	1	0	1	0	1	0	0	2	6	9	10	2	2	2	45
7.51-12.50	0	0	0	0	0	0	0	0	0	1	2	8	2	0	0	0	13
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
TOTAL	7	4	1	0	3	1	2	0	0	3	10	17	13	3	2	3	69

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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
0.76- 3.50	0	1	3	2	2	1	2	0	0	1	0	0	0	1	0	0	0
3.51- 7.50	1	0	0	0	0	1	1	1	1	5	1	9	13	11	5	5	13
7.51-12.50	0	0	0	0	0	0	0	0	0	1	3	3	2	0	1	0	54
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	10
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	3	2	2	2	3	1	1	7	5	15	15	12	6	5	81

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
0.76- 3.50	15	12	23	22	9	2	5	2	5	13	9	22	27	28	22	17	233
3.51- 7.50	23	6	7	10	16	4	0	0	4	12	24	56	34	36	26	16	274
7.51-12.50	1	0	0	0	0	0	0	0	1	4	11	22	3	1	1	4	48
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	3	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	39	18	30	32	25	6	5	2	10	29	45	103	64	65	50	37	561

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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
0.76- 3.50	29	34	33	36	30	33	17	28	43	25	15	16	18	26	17	26	11
3.51- 7.50	25	17	5	18	7	0	0	1	3	13	24	22	7	11	10	4	426
7.51-12.50	2	2	0	0	0	0	0	0	0	3	2	2	1	0	0	1	167
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	56	53	38	54	37	33	17	29	46	41	41	40	26	37	27	31	617

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
0.76- 3.50	2	1	5	10	22	34	64	46	38	9	1	3	0	3	2	3	243
3.51- 7.50	0	0	0	0	0	0	0	0	3	4	1	2	1	0	0	0	11
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
TOTAL	3	1	5	10	22	34	64	46	41	13	2	5	1	3	2	3	263

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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	
0.76- 3.50	0	0	4	0	17	37	136	68	25	3	2	0	0	0	0	0	0	300
3.51- 7.50	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	5
7.51-12.50	0	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	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	4	0	17	37	136	68	28	5	2	0	0	0	0	0	0	314

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
0.76- 3.50	49	53	77	84	86	115	226	146	111	52	29	44	46	60	43	50	1271
3.51- 7.50	72	43	38	37	28	12	11	7	18	41	67	111	96	72	56	48	749
7.51-12.50	4	2	0	0	0	0	0	0	3	12	22	57	11	4	3	5	123
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	6	0	0	1	0	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	125	98	115	121	114	127	237	153	132	105	120	218	153	136	103	95	2181

PROGRAM: JFD VERSION: 5P
 BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***
 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: 2181
 TOTAL NUMBER OF MISSING OBSERVATIONS: 3
 PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 %
 MEAN WIND SPEED FOR THIS PERIOD: 3.4 MPH
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

	A	B	C	D	E	F	G
	12.65	3.16	3.71	25.72	28.29	12.06	14.40

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	19	21	34	15	8	14	10	7	6	7	15	38	34	16	16	16	0
B	7	4	1	0	3	1	2	0	0	3	10	17	13	3	2	3	0
C	1	1	3	2	2	2	3	1	1	7	5	15	15	6	6	5	0
D	39	18	30	32	25	6	5	2	10	29	45	103	64	50	50	37	11
E	56	53	38	54	37	33	17	29	46	41	41	40	26	27	27	31	11
F	3	1	5	10	22	34	64	46	41	13	2	5	1	3	2	3	8
G	0	0	4	8	17	37	136	68	28	5	2	0	0	0	0	0	9
TOTAL	125	98	115	121	114	127	237	153	132	105	120	218	153	136	103	95	29

PROGRAM: JFD VERSION: 5P

90° VALLEY JFC - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBVZ
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T
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
0.76-3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51-7.50	2	1	5	5	6	0	0	2	1	0	1	0	2	0	0	3	29
7.51-12.50	7	1	6	6	2	2	2	1	1	2	0	0	1	2	0	0	33
12.51-18.50	2	0	4	1	0	0	1	0	0	0	0	0	2	1	3	0	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	2	15	12	3	8	3	3	3	2	1	0	6	3	3	3	78

STABILITY CLASS D

STABILITY BASED ON: DELTA T
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
0.76-3.50	5	0	0	11	4	11	3	2	1	1	3	6	13	7	7	6	93
3.51-7.50	17	5	14	26	33	6	10	4	10	8	12	30	28	25	15	24	267
7.51-12.50	35	6	10	23	39	12	12	3	13	20	37	53	61	40	40	51	455
12.51-18.50	25	12	17	11	15	17	8	3	4	17	39	38	38	13	13	13	283
18.51-24.00	1	13	2	1	0	2	0	1	1	3	9	11	10	3	2	0	59
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	3	0	2	0	12
TOTAL	83	44	48	72	91	48	33	13	29	49	100	139	153	94	79	94	1169

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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
0.76- 3.50	3	3	5	5	5	3	5	7	3	3	8	13	7	3	7	4	84
3.51- 7.50	10	13	16	10	8	12	11	8	10	7	23	25	26	18	11	9	217
7.51-12.50	13	5	2	6	7	6	7	3	9	12	18	10	12	16	3	5	133
12.51-18.50	8	1	3	4	0	5	6	2	2	10	16	6	0	0	5	4	69
18.51-24.00	0	1	0	0	0	0	4	0	1	1	3	0	0	1	0	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	34	23	26	21	20	26	33	20	25	33	58	54	45	38	26	22	518

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
0.76- 3.50	2	5	4	7	6	5	4	3	3	7	8	11	12	6	5	2	90
3.51- 7.50	13	4	10	16	10	7	7	3	12	4	23	15	11	12	4	7	158
7.51-12.50	4	1	7	8	3	6	0	3	0	9	13	8	11	0	3	3	82
12.51-18.50	2	0	0	0	0	1	3	0	0	0	10	4	0	0	0	0	20
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	21	10	21	31	19	21	14	9	15	20	54	38	34	19	12	12	351

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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
0.76- 3.50	0	1	1	0	1	1	1	1	1	2	2	0	0	0	0	0	11
3.51- 7.50	0	0	1	0	0	2	1	3	0	0	13	0	0	0	0	0	21
7.51-12.50	0	0	0	0	0	0	0	0	0	1	1	1	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
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	2	0	1	3	2	4	2	3	24	1	0	0	0	0	46

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
0.76- 3.50	10	17	15	23	16	20	13	13	8	13	21	30	32	16	19	12	278
3.51- 7.50	43	23	46	60	55	33	29	20	34	19	72	70	67	55	30	43	699
7.51-12.50	59	13	26	45	52	30	21	12	25	43	76	71	85	59	46	59	722
12.51-18.50	37	13	24	14	15	23	19	5	7	28	68	49	40	14	21	17	392
18.51-24.00	1	14	2	1	0	2	4	1	2	4	12	11	11	4	2	0	71
>24.00	0	0	0	0	0	0	0	0	0	0	0	1	3	0	2	0	12
TOTAL	150	80	113	143	138	108	86	51	76	107	247	232	238	154	120	131	2182

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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: 2184

TOTAL NUMBER OF MISSING OBSERVATIONS: 2

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 %

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
0.00	0.92	3.57	53.57	23.74	16.09	2.11

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	1	0	1	7	4	2	1	2	2	0	0	0	0	0	0	0	0
C	11	2	15	12	3	8	3	3	3	2	1	0	6	3	0	3	0
D	83	44	48	72	91	48	33	13	29	49	100	139	153	94	79	94	0
E	34	23	26	21	20	26	33	20	25	33	68	54	45	38	26	22	4
F	21	10	21	31	19	21	14	9	15	20	54	38	34	19	12	12	1
G	0	1	2	0	1	3	2	4	2	3	24	1	0	0	0	0	3
TOTAL	150	80	113	143	138	108	86	51	76	107	247	232	238	154	120	131	8

Beaver Valley
Joint Frequency Distribution Tables
for
Batch Releases

Second Quarter 1987

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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
0.76- 3.50	1	0	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0
3.51- 7.50	5	0	1	0	0	1	4	1	0	0	0	0	0	0	0	0	12
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	6	0	2	0	0	3	5	2	0	0	0	0	0	0	0	0	18

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
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
3.51- 7.50	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
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	2	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	4

PROGRAM: JFD VERSION: 5P
 BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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
0.76- 3.50	0	0	1	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	1	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	2	0	0	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	0	0	0	0	0	0	1	0	0	0	0	0	0	4

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
0.76- 3.50	0	1	3	2	0	0	1	0	0	0	0	0	0	0	2	1	10
3.51- 7.50	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	3
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	0	0	0	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	1	1	4	2	0	0	1	0	0	0	2	1	0	0	2	2	16

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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	0	0	1	3	9	1	0	0	0	0	3	0	0	0	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
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	3	9	1	0	0	0	0	0	0	0	0	14
TOTAL	0	0	0	0	1	3	9	1	0	0	0	0	0	0	0	0	14

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	3	5	10	7	3	7	13	3	3	0	0	1	0	1	3	3	62
0.76- 3.50	8	0	3	0	1	1	4	1	0	1	1	0	0	0	0	1	21
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	1	2	2	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	11	5	13	7	4	8	17	4	3	1	2	4	0	1	3	5	90

PROGRAM: JFD VERSION: 5P
 BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 4/ 1/87 - 5/30/87

*** 2ND QUARTER 1987 ***

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: 90
 TOTAL NUMBER OF VALID OBSERVATIONS: 90
 TOTAL NUMBER OF MISSING OBSERVATIONS: 0
 PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %
 MEAN WIND SPEED FOR THIS PERIOD: 3.1 MPH
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
20.00	4.44	4.44	17.78	32.22	5.56	15.56

DISTRIBUTION OF WIND DIRECTION VS STABILITY

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

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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	WNNW	NW	NNW	TOTAL	
CALM	0	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	0
3.51- 7.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12.51-18.50	2	0	1	1	0	0	1	0	0	0	0	0	0	0	2	0	0	7
18.51-24.00	0	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	0
TOTAL	3	1	1	2	1	1	1	0	0	0	0	0	0	0	2	0	0	12

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	WNNW	NW	NNW	TOTAL	
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.76- 3.50	0	1	0	0	1	1	1	0	0	0	0	3	3	1	0	0	0	11
3.51- 7.50	1	0	2	2	5	1	2	0	1	2	1	4	2	1	3	0	0	27
7.51-12.50	9	0	1	1	4	2	4	0	2	2	1	4	9	3	5	7	0	54
12.51-18.50	7	3	11	1	0	0	0	0	0	0	0	1	6	1	7	5	0	42
18.51-24.00	0	0	0	1	0	0	0	1	0	0	0	0	1	0	2	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17	4	14	5	10	4	7	1	3	4	2	12	21	6	17	12	0	139

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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
0.76-3.50	2	1	0	0	0	0	1	2	1	0	0	1	1	2	1	0	0
3.51-7.50	1	0	0	1	1	1	5	0	2	1	0	3	2	2	1	2	12
7.51-12.50	2	0	0	1	2	1	3	0	2	1	3	3	3	3	1	1	22
12.51-18.50	0	0	0	0	0	0	3	0	1	0	2	0	0	0	2	1	24
18.51-24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL	5	1	0	2	3	2	13	2	0	2	5	7	6	7	5	4	68

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
0.76-3.50	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0
3.51-7.50	1	0	2	0	0	0	0	1	2	0	0	4	0	0	0	2	12
7.51-12.50	0	1	0	0	0	0	0	1	0	0	0	2	2	0	0	0	6
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	2	0	0	0	0	3	2	1	0	6	2	0	1	0	21

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBVZ
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T
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	WNNW	NW	NNW	TOTAL
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
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	WNNW	NW	NNW	TOTAL
0.76- 3.50	2	0	0	0	1	1	2	3	1	1	0	4	4	3	2	0	26
3.51- 7.50	3	4	3	3	7	3	7	1	5	3	1	11	4	3	4	4	63
7.51-12.50	12	1	3	3	6	4	8	2	4	3	4	7	14	6	6	8	90
12.51-18.50	9	3	12	3	0	4	4	0	1	0	2	1	6	1	11	6	59
18.51-24.00	0	0	0	1	0	0	1	1	0	0	0	0	1	0	2	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	26	7	17	10	14	8	22	7	11	7	7	23	29	13	25	18	244

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/87 - 6/30/87

*** 2ND QUARTER 1987 ***

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: 244

TOTAL NUMBER OF VALID OBSERVATIONS: 244

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 9.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	1.64	4.92	56.97	27.87	8.61	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	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0
C	3	1	2	1	0	1	0	0	0	0	0	0	0	0	2	0	0
D	17	4	14	5	10	4	7	1	3	4	2	12	21	6	17	12	0
E	5	1	0	2	3	2	13	2	6	2	5	5	6	7	5	4	0
F	1	1	2	0	0	0	0	1	2	1	0	6	2	0	1	2	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	26	7	17	10	14	8	22	7	11	7	7	23	29	13	25	18	0

Beaver Valley
Listings of Meteorological Data
for
Periods of Ground-Level Gaseous Effluent Releases

Second Quarter 1987

Beaver Valley
Listings of Meteorological Data
for
Periods of Elevated Gaseous Effluent Releases

Second Quarter 1987

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1987

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	AMB. TEMP 35F (F)	POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)	
87	5	3	23	3.7	27	99.9	8.3	61	99.9	14.0	47	99.9	46.7	-0.3	E	-1.9	D	0.00
87	5	3	24	3.6	70	99.9	10.8	65	99.9	17.1	61	99.9	48.9	-0.2	E	-1.9	D	0.00
87	5	4	1	3.2	43	99.9	9.8	64	99.9	12.6	49	99.9	45.1	-0.2	E	-1.9	D	0.00
87	5	4	2	3.4	68	99.9	11.5	66	99.9	16.7	54	99.9	44.5	-0.1	E	-1.5	D	0.01
87	5	4	3	3.4	43	99.9	11.9	68	99.9	16.3	56	99.9	43.8	-0.2	E	-1.8	D	0.00
87	5	4	4	4.8	85	99.9	13.1	75	99.9	19.1	63	99.9	41.5	-0.1	E	-1.7	D	0.00
87	5	4	5	3.3	54	99.9	9.1	63	99.9	12.9	49	99.9	40.5	-0.2	E	-1.9	D	0.00
87	5	4	6	4.5	53	99.9	12.2	56	99.9	18.3	54	99.9	38.9	-0.2	E	-2.0	D	0.00
87	5	4	7	4.5	54	99.9	13.6	61	99.9	18.3	51	99.9	35.5	-0.1	E	-1.9	D	0.00
87	5	4	8	5.3	52	99.9	13.0	59	99.9	18.3	50	99.9	32.8	-0.4	D	-2.3	D	0.00
87	5	4	9	5.0	43	99.9	12.5	58	99.9	16.9	54	99.9	33.3	-0.8	D	-3.0	D	0.00
87	5	4	10	6.0	42	99.9	14.5	60	99.9	16.6	55	99.9	35.5	-1.2	A	-3.2	D	0.00
87	5	4	11	4.4	55	99.9	10.7	60	99.9	12.7	62	99.9	38.7	-1.8	A	-4.5	B	0.00
87	5	4	12	5.2	58	99.9	12.1	65	99.9	14.1	64	99.9	39.4	-1.9	A	-4.2	C	0.00
87	5	4	13	5.3	53	99.9	9.4	55	99.9	11.2	55	99.9	37.8	-1.1	B	-3.6	D	0.00
87	5	4	14	4.6	74	99.9	9.9	76	99.9	13.2	67	99.9	37.0	-1.5	A	-3.9	C	0.00
87	5	4	15	4.7	69	99.9	10.1	70	99.9	12.5	59	99.9	35.0	-1.7	A	-4.1	C	0.00
87	5	4	16	4.1	68	99.9	7.9	80	99.9	10.1	82	99.9	35.0	-1.3	A	-3.7	D	0.00
87	5	4	17	2.9	64	99.9	5.6	75	99.9	6.9	62	99.9	34.5	-1.3	A	-3.2	D	0.00
87	5	4	18	2.5	61	99.9	4.5	90	99.9	5.3	101	99.9	34.7	-0.9	D	-2.4	D	0.00
87	5	4	19	3.2	142	99.9	7.5	142	99.9	9.3	139	99.9	59.8	-0.9	D	-2.1	D	0.00
87	5	4	20	4.6	312	99.9	7.5	320	99.9	9.5	351	99.9	55.7	-0.3	E	-2.1	D	0.00
87	5	4	21	3.8	338	99.9	6.4	357	99.9	12.4	8	99.9	35.3	-0.2	E	-2.0	D	0.00
87	5	4	22	3.6	325	99.9	4.8	349	99.9	10.2	1	99.9	34.8	-0.5	E	-0.6	E	0.00
87	5	4	23	1.7	22	99.9	4.8	331	99.9	8.6	348	99.9	34.1	-0.3	E	-1.0	E	0.00
87	5	4	24	1.2	245	99.9	2.4	272	99.9	4.1	343	99.9	35.7	-0.3	E	-2.2	F	0.00
87	5	5	1	1.6	181	99.9	3.7	280	99.9	3.5	10	99.9	36.0	-1.5	A	-4.2	C	0.00
87	5	5	2	1.1	108	99.9	3.7	230	99.9	5.7	347	99.9	999.9	-2.0	A	-4.5	B	0.00
87	5	5	3	4.1	121	99.9	6.9	131	99.9	9.8	136	99.9	47.4	-2.3	A	-4.8	B	0.00
87	5	5	4	4.5	198	99.9	8.3	113	99.9	11.1	120	99.9	49.0	-1.9	A	-4.4	B	0.00
87	5	5	5	4.6	147	99.9	10.8	135	99.9	13.7	139	99.9	49.7	-1.5	A	-3.8	D	0.00
87	5	5	6	5.3	132	99.9	9.1	149	99.9	11.3	144	99.9	50.8	-0.0	E	-1.2	E	0.00
87	5	5	7	2.4	103	99.9	5.5	131	99.9	8.2	133	99.9	48.7	-0.5	E	-1.0	E	0.00
87	5	5	8	2.5	94	99.9	5.7	109	99.9	13.2	124	99.9	49.1	-0.5	E	-1.3	D	0.00
87	5	5	9	2.9	81	99.9	8.4	129	99.9	20.8	134	99.9	49.1	-0.0	E	-1.0	E	0.00
87	5	5	10	2.9	94	99.9	6.6	118	99.9	15.6	131	99.9	49.5	-0.0	E	-1.1	D	0.00
87	5	5	11	2.2	54	99.9	4.8	110	99.9	11.9	134	99.9	49.5	-0.0	E	-1.3	D	0.00
87	5	5	12	2.2	33	99.9	3.7	91	99.9	11.9	133	99.9	49.9	-0.0	E	-1.4	D	0.00
87	5	5	13	2.5	33	99.9	4.5	54	99.9	7.3	135	99.9	50.0	-0.0	E	-1.4	D	0.00
87	5	5	14	2.3	49	99.9	4.4	51	99.9	7.0	134	99.9	50.2	-0.4	E	-0.4	E	0.00
87	5	5	15	2.0	44	99.9	5.0	64	99.9	8.0	131	99.9	50.3	-1.3	F	-0.1	E	0.00
87	5	5	16	1.6	84	99.9	3.9	76	99.9	8.5	141	99.9	49.9	-1.3	F	0.9	E	0.00
87	5	5	17	2.5	61	99.9	3.7	76	99.9	9.5	142	99.9	50.0	-0.9	D	-3.0	D	0.00
87	5	5	18	1.6	87	99.9	1.6	71	99.9	8.6	141	99.9	53.7	-0.9	D	-1.1	B	0.00
87	5	5	19	2.8	198	99.9	5.3	184	99.9	7.2	187	99.9	56.2	-1.1	B	-3.1	B	0.00
87	5	5	20	5.7	220	99.9	7.6	213	99.9	9.1	218	99.9						

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1987

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	AMB. TEMP (F)	POINT (F)	DELTA T (F)	DELTA T (F)	DELTA T (F)	RAIN (IN)
87	5	14	11	5.3	258	6.7	261	99.9	-	6.8	233	99.9	-	69.9	57.6	-1.1	B	-3.1	D
87	5	14	12	3.6	260	3.7	239	99.9	-	3.9	198	99.9	-	73.6	58.9	-0.8	D	-3.1	D
87	5	14	13	5.0	175	7.7	179	99.9	-	8.4	184	99.9	-	77.6	58.9	-1.9	A	-3.8	D
87	5	14	14	6.0	230	8.3	222	99.9	-	9.4	210	99.9	-	79.5	60.2	-1.4	A	-3.7	D
87	5	14	15	6.5	215	8.4	214	99.9	-	10.4	207	99.9	-	59.8	59.8	-1.2	A	-3.3	D
87	5	15	2	1.1	92	1.4	101	99.9	-	6.8	258	99.9	-	66.2	65.5	1.7	F	-1.5	D
87	5	15	3	4.4	357	8.4	2	99.9	-	11.4	346	99.9	-	66.2	62.4	0.0	E	-2.0	D
87	5	15	4	1.6	330	2.4	316	99.9	-	4.3	325	99.9	-	64.5	62.4	0.1	E	-2.0	D
87	5	15	5	2.2	268	3.9	286	99.9	-	8.4	298	99.9	-	63.2	62.4	0.2	E	-2.0	D
87	5	15	6	5.3	293	8.9	310	99.9	-	13.5	330	99.9	-	57.9	55.0	-0.6	D	-2.5	D
87	5	15	7	3.6	19	6.0	354	99.9	-	10.3	337	99.9	-	54.3	48.2	-0.7	D	-2.6	D
87	5	15	8	3.6	287	5.6	288	99.9	-	6.1	324	99.9	-	54.3	48.2	-0.7	D	-2.6	D
87	5	15	9	4.3	336	6.4	336	99.9	-	8.6	323	99.9	-	54.7	47.2	-0.6	D	-2.4	D
87	5	15	10	5.3	349	7.2	347	99.9	-	8.2	331	99.9	-	58.8	48.6	-0.7	D	-2.6	D
87	5	15	11	5.9	31	11.7	22	99.9	-	12.0	360	99.9	-	50.1	50.1	-1.3	A	-3.3	D
87	5	15	12	4.8	20	8.7	20	99.9	-	9.7	3	99.9	-	58.1	49.2	-1.2	A	-3.3	D
87	5	15	13	5.8	23	11.1	26	99.9	-	12.2	13	99.9	-	60.9	49.2	-1.9	A	-4.3	C
87	5	15	14	5.4	357	8.2	9	99.9	-	10.6	2	99.9	-	64.4	44.9	-1.4	A	-4.0	C
87	5	15	15	7.0	19	12.9	16	99.9	-	15.8	7	99.9	-	67.9	39.9	-1.6	A	-4.1	C
87	5	15	16	6.8	354	12.0	354	99.9	-	15.3	354	99.9	-	64.0	37.5	-1.5	A	-3.9	C
87	5	15	19	5.2	352	8.0	357	99.9	-	12.8	359	99.9	-	60.8	38.8	-0.8	D	-2.3	D
87	5	15	20	3.1	341	4.1	349	99.9	-	11.5	1	99.9	-	40.8	40.8	0.0	E	-1.3	D
87	5	15	21	2.1	3	4.6	18	99.9	-	12.3	4	99.9	-	55.5	41.2	0.0	E	-1.3	D
87	5	15	22	2.6	3	4.3	18	99.9	-	8.6	2	99.9	-	55.4	42.6	0.0	E	-1.5	D
87	5	15	23	1.3	120	1.5	223	99.9	-	4.9	353	99.9	-	50.0	43.0	1.7	F	0.2	E
87	5	16	1	1.2	93	2.3	343	99.9	-	4.0	354	99.9	-	46.5	44.6	3.0	G	2.4	F
87	5	16	2	2.2	146	0.9	270	99.9	-	4.7	357	99.9	-	43.9	44.6	2.3	G	4.4	F
87	5	16	3	1.4	152	3.7	196	99.9	-	3.3	290	99.9	-	42.4	42.1	2.6	G	3.5	F
87	5	16	4	1.4	139	1.8	360	99.9	-	4.2	345	99.9	-	40.7	40.7	3.1	G	5.3	F
87	5	16	5	1.5	170	0.9	124	99.9	-	2.8	314	99.9	-	40.7	41.1	1.6	F	2.9	F
87	5	16	6	0.9	154	0.9	99	99.9	-	2.3	25	99.9	-	42.7	42.7	0.2	E	0.6	E
87	5	16	12	4.8	335	5.1	327	99.9	-	4.1	306	99.9	-	63.2	38.2	-1.2	A	-3.3	D
87	5	16	13	3.5	308	3.3	312	99.9	-	1.4	268	99.9	-	65.5	38.2	-0.5	D	-1.7	D
87	5	16	14	3.2	298	3.3	292	99.9	-	2.6	258	99.9	-	68.3	38.0	-0.4	D	-2.1	D
87	5	16	15	4.3	289	4.5	279	99.9	-	3.5	288	99.9	-	70.6	36.7	-1.2	A	-2.6	D
87	5	16	16	2.8	247	2.8	257	99.9	-	3.4	255	99.9	-	73.1	37.8	-0.8	D	-3.1	D
87	5	16	17	2.9	277	3.4	249	99.9	-	4.5	269	99.9	-	38.5	38.5	-0.6	D	-2.8	D
87	5	16	18	2.7	233	3.6	245	99.9	-	4.1	255	99.9	-	39.5	56.6	-0.4	D	-2.3	D
87	5	20	22	2.5	62	6.0	96	99.9	-	9.3	101	99.9	-	62.7	56.6	-0.4	D	-2.3	D
87	5	20	23	3.7	86	8.1	91	99.9	-	9.3	102	99.9	-	61.1	55.0	-0.4	D	-2.3	D
87	5	20	24	1.5	82	4.7	90	99.9	-	12.5	104	99.9	-	59.9	54.6	-0.4	D	-2.3	D
87	5	21	1	2.5	109	5.5	81	99.9	-	8.4	95	99.9	-	57.4	53.7	-0.7	E	-0.8	E
87	5	21	2	2.4	90	5.8	73	99.9	-	9.0	78	99.9	-	53.7	53.7	0.0	E	-1.7	D
87	5	21	3	2.5	86	6.4	69	99.9	-	9.1	76	99.9	-	52.5	52.5	0.0	E	-1.5	D
87	5	21	4	1.7	113	4.4	68	99.9	-	6.7	84	99.9	-	51.8	51.8	0.0	E	-1.3	D
87	5	21	5	1.1	96	4.2	69	99.9	-	7.8	79	99.9	-	51.5	51.5	0.0	E	-1.1	D

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1987

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

YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	DELTA T SC (F)	RAIN FALL SC(IN)
87	6	30	21	1.9	147	99.9	-	4.2	185	99.9	-	3.8	202	99.9	-	65.1	65.1	0.0	0.0	0.0	0.00
87	6	30	22	0.8	299	99.9	-	1.3	345	99.9	-	3.7	171	99.9	-	64.5	64.5	0.3	0.3	0.0	0.00
87	6	30	23	1.1	347	99.9	-	3.0	16	99.9	-	2.6	159	99.9	-	64.4	64.4	0.4	0.4	0.0	0.00
87	6	30	24	2.2	33	99.9	-	3.3	13	99.9	-	2.2	140	99.9	-	64.9	64.9	0.5	0.5	0.0	0.00