1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

SUPPLEMENTAL INFORMATION PAGE

FACILITY: B.V.P.S. Units 1 and 2 LICENSEE: Duquesne Light Company

1. Regulatory Limits

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

2. Maximum Permissable 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: #### 10 CFR 20 Appendix B, Table II
d. Liquid effluents: #######

3. Average Energy

Provide the average energy (E) of the radionuclide mixture in release 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, half-lives > 8 days: Ge Gamma Spectrometry, Low Background Proportional Counter
d. Liquid effluents: Ge Gamma Spectrometry, Low Background Proportional Counter, Liquid Scintillation Counter

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:	25		21	
2. Total time period for batch releases:	14575	minutes	20185	minutes
3. Maximum time period for a batch release:	1264	minutes	1692	minutes
4. Average time period for batch releases:	583	minutes	961	minutes
5. Minimum time period for a batch release:	1	minute	71	minutes
6. Average river flow during periods of release:	48400	cuft/sec	31100	cuft/sec

b. Gaseous

	1st Quarter		2nd Quarter	
1. Number of batch releases:	17		3	
2. Total time period for batch releases:	22624	minutes	2589	minutes
3. Maximum time period for a batch release:	4208	minutes	967	minutes
4. Average time period for batch releases:	1331	minutes	863	minutes
5. Minimum time period for a batch release:	125	minute	782	minutes

6. Abnormal Releases

a. Liquid

	1st Quarter	2nd Quarter
1. Number of releases:	NONE	NONE
2. Total activity released:	0.00E+00	0.00E+00

b. Gaseous

	1st Quarter	2nd Quarter
1. Number of releases:	NONE	NONE
2. Total activity released:	0.00E+00	0.00E+00

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1/1

TABLE 1A

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	1st Quarter	2nd Quarter	Est. total Error, %
A. Fission & Activation Gases				
1. Total release	Ci	6.39E+01	1.07E+01	2.65E+01
2. Average release rate for period	uCi/sec	8.11E+00	1.36E+00	
3. Percent of technical specification limit	%	N/A	N/A	
B. Iodines				
1. Total iodine - 131	Ci	1.30E-03	2.48E-04	2.83E+01
2. Average release rate for period	uCi/sec	1.65E-04	3.15E-05	
3. Percent of technical specification limit	%	N/A	N/A	
C. Particulates				
1. Particulates with half-lives > 8 days	Ci	1.41E-03	8.77E-05	3.00E+01
2. Average release rate for period	uCi/sec	1.79E-04	1.11E-05	
3. Percent of technical specification limit	%	N/A	N/A	
4. Gross alpha radioactivity	Ci	1.06E-06	1.05E-06	
D. Tritium				
1. Total release	Ci	8.78E+00	3.94E+00	3.29E+01
2. Average release rate for period	uCi/sec	1.11E+00	5.00E-01	
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).

TABLE 18

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

GASEOUS EFFLUENTS - ELEVATED RELEASES

		CONTINUOUS MODE		BATCH MODE	
Nuclides released	Unit	1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
1. Fission gases					
krypton-85	Ci	LLD	LLD	3.60E-01	2.40E-02
krypton-85m	Ci	LLD	LLD	LLD	LLD
krypton-87	Ci	LLD	LLD	LLD	LLD
krypton-88	Ci	LLD	LLD	LLD	LLD
xenon-131m	Ci	LLD	LLD	LLD	LLD
xenon-133	Ci	3.14E-01	4.17E-01	4.65E-04	LLD
xenon-133m	Ci	LLD	LLD	LLD	LLD
xenon-135	Ci	8.57E-03	3.35E-02	LLD	LLD
xenon-135m	Ci	LLD	LLD	LLD	LLD
xenon-138	Ci	LLD	LLD	LLD	LLD
unidentified	Ci	NONE	NONE	NONE	NONE
Total for period	Ci	3.23E-01	4.51E-01	3.60E-01	2.40E-02
2. Iodines					
iodine-131	Ci	1.05E-06	3.29E-06	LLD	LLD
iodine-133	Ci	LLD	LLD	LLD	LLD
iodine-135	Ci	LLD	LLD	LLD	LLD
Total for period	Ci	1.05E-06	3.29E-06	0.00E+00	0.00E+00
3. Particulates					
manganese-54	Ci	LLD	1.46E-07	LLD	LLD
iron-59	Ci	LLD	LLD	LLD	LLD
cobalt-58	Ci	2.54E-06	7.51E-06	LLD	LLD
cobalt-60	Ci	1.41E-06	1.12E-05	LLD	LLD
zinc-65	Ci	LLD	LLD	LLD	LLD
strontium-89	Ci	LLD	LLD	LLD	LLD
strontium-90	Ci	LLD	LLD	LLD	LLD
molybdenum-99	Ci	2.79E-08	LLD	LLD	LLD
cesium-134	Ci	LLD	LLD	LLD	LLD
cesium-137	Ci	LLD	LLD	LLD	LLD
cerium-141	Ci	LLD	LLD	LLD	LLD
cerium-144	Ci	LLD	LLD	LLD	LLD
unidentified	Ci	NONE	NONE	NONE	NONE
Total for period	Ci	3.98E-06	1.89E-05	0.00E+00	0.00E+00

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

BEAVER VALLEY - UNIT 1

TABLE 1C-1

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

		CONTINUOUS MODE		BATCH MODE	
Nuclides released	Unit	1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
1. Fission gases					
krypton-85	Ci	4.85E+01	3.92E-01	LLD	N/A
krypton-85m	Ci	LLD	LLD	LLD	N/A
krypton-87	Ci	LLD	LLD	LLD	N/A
krypton-88	Ci	LLD	LLD	LLD	N/A
xenon-131m	Ci	LLD	3.68E+00	LLD	N/A
xenon-133	Ci	1.40E+01	3.34E+00	1.03E-03	N/A
xenon-133m	Ci	LLD	LLD	LLD	N/A
xenon-135	Ci	LLD	1.42E+00	LLD	N/A
xenon-135m	Ci	LLD	LLD	LLD	N/A
xenon-138	Ci	LLD	LLD	LLD	N/A
unidentified	Ci	NONE	NONE	NONE	N/A
Total for period	Ci	6.25E+01	8.83E+00	1.03E-03	0.00E+00
2. Iodines					
iodine-131	Ci	1.30E-03	2.33E-04	1.99E-06	N/A
iodine-133	Ci	LLD	1.16E-05	LLD	N/A
iodine-135	Ci	LLD	LLD	LLD	N/A
Total for period	Ci	1.30E-03	2.45E-04	1.99E-06	0.00E+00
3. Particulates					
manganese-54	Ci	LLD	LLD	LLD	N/A
iron-59	Ci	LLD	LLD	LLD	N/A
cobalt-58	Ci	8.95E-04	1.58E-05	LLD	N/A
cobalt-60	Ci	3.49E-04	2.24E-05	LLD	N/A
zinc-65	Ci	LLD	LLD	LLD	N/A
strontium-89	Ci	LLD	LLD	LLD	N/A
strontium-90	Ci	LLD	LLD	LLD	N/A
molybdenum-99	Ci	LLD	LLD	LLD	N/A
cesium-134	Ci	LLD	LLD	LLD	N/A
cesium-137	Ci	7.91E-05	4.84E-06	LLD	N/A
cerium-141	Ci	4.60E-06	LLD	LLD	N/A
cerium-144	Ci	LLD	LLD	LLD	N/A
unidentified	Ci	LLD	LLD	LLD	N/A
Total for period	Ci	1.33E-03	4.30E-05	0.00E+00	0.00E+00

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

BEAVER VALLEY - UNIT 2

TABLE 1C-2

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

		CONTINUOUS MODE		BATCH MODE	
Nuclides released	Unit	1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
1. Fission gases					
krypton-85	Ci	2.09E-01	1.43E+00	LLD	N/A
krypton-85m	Ci	LLD	LLD	LLD	N/A
krypton-87	Ci	LLD	LLD	LLD	N/A
krypton-88	Ci	LLD	LLD	LLD	N/A
xenon-131m	Ci	LLD	LLD	LLD	N/A
xenon-133	Ci	1.33E-02	LLD	5.26E-01	N/A
xenon-133m	Ci	LLD	LLD	LLD	N/A
xenon-135	Ci	LLD	LLD	4.51E-03	N/A
xenon-135m	Ci	LLD	LLD	LLD	N/A
xenon-138	Ci	LLD	LLD	LLD	N/A
unidentified	Ci	NONE	NONE	NONE	N/A
Total for period	Ci	2.22E-01	1.43E+00	5.31E-01	0.00E+00
2. Iodines					
iodine-131	Ci	LLD	LLD	LLD	N/A
iodine-133	Ci	LLD	LLD	LLD	N/A
iodine-135	Ci	LLD	LLD	LLD	N/A
Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3. Particulates					
manganese-54	Ci	LLD	LLD	LLD	N/A
iron-59	Ci	LLD	LLD	LLD	N/A
cobalt-58	Ci	3.12E-05	LLD	LLD	N/A
cobalt-60	Ci	1.83E-05	1.81E-05	3.29E-05	N/A
zinc-65	Ci	LLD	LLD	LLD	N/A
strontium-89	Ci	LLD	LLD	LLD	N/A
strontium-90	Ci	LLD	LLD	LLD	N/A
molybdenum-99	Ci	8.45E-07	LLD	LLD	N/A
cesium-134	Ci	LLD	LLD	LLD	N/A
cesium-137	Ci	LLD	LLD	LLD	N/A
cerium-141	Ci	LLD	LLD	LLD	N/A
cerium-144	Ci	LLD	7.73E-06	LLD	N/A
unidentified	Ci	LLD	LLD	LLD	N/A
Total for period	Ci	5.03E-05	2.58E-05	3.29E-05	0.00E+00

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

TABLE 2A

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	1st Quarter	2nd Quarter	Est. total Error, %
A. Fission & Activation Products				
1. Total release (excluding H-3, gases & alpha)	Ci	3.10E-02	4.03E-02	2.60E+01
2. Average diluted concentration during period	uCi/ml	3.19E-08	2.70E-08	
3. Percent of applicable limit	%	N/A	N/A	
B. Tritium				
1. Total release	Ci	8.82E+01	6.58E+01	2.50E+01
2. Average diluted concentration during period	uCi/ml	9.06E-05	4.42E-05	
3. Percent of applicable limit	%	3.02E+00	1.47E+00	
C. Dissolved and entrained gases				
1. Total release	Ci	6.07E-05	1.58E-04	2.70E+01
2. Average diluted concentration during period	uCi/ml	6.24E-11	1.06E-10	
3. Percent of applicable limit	%	3.12E-05	5.30E-05	
D. Gross alpha Radioactivity				
1. Total release	Ci	1.56E-06	LLD	2.89E+01
E. Volume of waste released (prior to dilution)	liters	2.22E+06	1.82E+06	1.12E+01
F. Volume of dilution water used during period	liters	9.73E+08	1.49E+09	2.29E+01

N/A = NOT APPLICABLE

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

B.3 is based on a limit of 3.00E-3 uCi/ml. C.3 is based on a limit of 2.00E-4 uCi/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 approximately 1E+10 liters for BVPS-1 and BVPS-2. (ie: 22,000 GPM is the approximate combined cooling tower blowdown flowrates from the site)

TABLE 2B

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

LIQUID EFFLUENTS

		CONTINUOUS MODE		BATCH MODE	
Nuclides released	Unit	1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
1. Fission and activation products					
beryllium-7	Ci	N/A	N/A	7.61E-05	LLD
sodium-24	Ci	N/A	N/A	1.42E-05	LLD
chromium-51	Ci	N/A	N/A	LLD	LLD
manganese-54	Ci	N/A	N/A	2.42E-04	2.38E-04
iron-55	Ci	N/A	N/A	1.04E-03	7.81E-03
iron-59	Ci	N/A	N/A	LLD	LLD
cobalt-57	Ci	N/A	N/A	2.88E-05	1.33E-04
cobalt-58	Ci	N/A	N/A	2.00E-02	1.83E-02
cobalt-60	Ci	N/A	N/A	5.22E-03	8.00E-03
zinc-65	Ci	N/A	N/A	LLD	LLD
strontium-89	Ci	N/A	N/A	LLD	LLD
strontium-90	Ci	N/A	N/A	LLD	LLD
niobium-95	Ci	N/A	N/A	4.00E-08	LLD
molybdenum-99	Ci	N/A	N/A	1.95E-05	LLD
technetium-99m	Ci	N/A	N/A	1.91E-05	LLD
silver-110m	Ci	N/A	N/A	7.96E-04	7.92E-04
antimony-124	Ci	N/A	N/A	8.36E-04	9.52E-05
antimony-125	Ci	N/A	N/A	2.04E-03	3.17E-03
iodine-131	Ci	N/A	N/A	2.48E-04	LLD
iodine-133	Ci	N/A	N/A	8.79E-05	LLD
cesium-134	Ci	N/A	N/A	9.38E-05	6.25E-04
cesium-137	Ci	N/A	N/A	2.28E-04	1.11E-03
barium-lanthanum-140	Ci	[illegible]	N/A	LLD	LLD
cerium-141	Ci	[illegible]	N/A	LLD	LLD
unidentified	Ci	N/A	N/A	NONE	NONE
Total for period	Ci	[illegible]E+	0.00E+00	3.10E-02	4.03E-02
1. Dissolved and entrained gases					
xenon-133	Ci	N/A	N/A	6.07E-05	1.58E-04
xenon-135	Ci	N/A	N/A	LLD	LLD
unidentified	Ci	N/A	N/A	NONE	NONE
Total for period	Ci	0.00E+00	0.00E+00	6.07E-05	1.58E-04

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

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

TABLE 3

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

1. TYPE OF WASTE		Spent resins Filter sludges Evap. bottoms	Dry comp. waste Contam. equipment etc.	Irrad. components Control rods etc.	Estimated Total Error
	Container Volume	3.30E+01 cu. meter	1.20E+02 cu. meter	0.00E+00 cu. meter	0.00E+00 %
	Total Activity	4.20E+02 Curies	2.16E+00 Curies	0.00E+00 Curies	3.00E+01 %

2. ESTIMATE OF MAJOR NUCLIDE COMPOSITION BY TYPE OF WASTE (PERCENT)

H-3	1.67E+00 %	9.29E-01 %	0.00E+00 %
C-14	6.53E-02 %	1.21E-01 %	0.00E+00 %
P-32	6.42E-04 %	0.00E+00 %	0.00E+00 %
Cr-51	2.93E-01 %	0.00E+00 %	0.00E+00 %
Mn-54	1.12E+00 %	1.41E+00 %	0.00E+00 %
Fe-55	1.72E+00 %	1.73E+01 %	0.00E+00 %
Fe-59	4.45E-02 %	0.00E+00 %	0.00E+00 %
Co-57	2.97E-01 %	1.77E-01 %	0.00E+00 %
Co-58	8.14E+01 %	4.43E+00 %	0.00E+00 %
Co-60	7.83E+00 %	3.97E+01 %	0.00E+00 %
Ni-59	1.18E-02 %	0.00E+00 %	0.00E+00 %
Ni-63	1.11E+00 %	4.42E+00 %	0.00E+00 %
Zn-65	0.00E+00 %	0.00E+00 %	0.00E+00 %
Sr-89	1.43E-04 %	0.00E+00 %	0.00E+00 %
Sr-90	3.44E-04 %	1.54E-02 %	0.00E+00 %
Nb-95	2.55E-01 %	0.00E+00 %	0.00E+00 %
Zr-95	1.24E-01 %	0.00E+00 %	0.00E+00 %
Tc-99	6.23E-05 %	4.04E-03 %	0.00E+00 %
Ru-103	3.91E-04 %	0.00E+00 %	0.00E+00 %
Ag-110m	7.07E-02 %	7.14E-01 %	0.00E+00 %
Sn-113	0.00E+00 %	0.00E+00 %	0.00E+00 %
Sb-124	4.72E-01 %	0.00E+00 %	0.00E+00 %
Sb-125	1.06E-01 %	1.04E+00 %	0.00E+00 %
I-129	7.02E-05 %	5.39E-03 %	0.00E+00 %
I-131	4.01E-02 %	0.00E+00 %	0.00E+00 %
Cs-134	1.46E+00 %	1.09E+01 %	0.00E+00 %
Cs-137	1.42E+00 %	1.84E+01 %	0.00E+00 %
Ba-140	0.00E+00 %	0.00E+00 %	0.00E+00 %
Ce-141	4.45E-04 %	0.00E+00 %	0.00E+00 %
Ce-144/Pr-144	1.28E-02 %	5.64E-02 %	0.00E+00 %
Pu-238	9.08E-05 %	1.43E-03 %	0.00E+00 %
Pu-239/240	4.66E-05 %	7.73E-04 %	0.00E+00 %
Pu-241	5.22E-03 %	0.00E+00 %	0.00E+00 %
Am-241	2.38E-05 %	3.09E-04 %	0.00E+00 %
Cm-242	3.75E-04 %	6.50E-04 %	0.00E+00 %
Cm-243/244	5.66E-05 %	3.91E-04 %	0.00E+00 %

3. NUMBER OF SHIPMENTS		6	6	0
TYPE OF CONTAINER USED	LSA	2	6	0
	TYPE A	4	0	0
	TYPE B	0	0	0
	LARGE QUANTITY	0	0	0
SOLIDIFICATION AGENT USED	CEMENT	2	0	0
	UREA FORMALDEHYDE	0	0	0
	NONE	4	6	0
MODE OF TRANSPORT	TRUCK	6	6	0
	RAIL	0	0	0
	OTHER	0	0	0
FINAL DESTINATION	Barnwell, SC	6	6	0
	Richland, WA	0	0	0
WASTE CLASS PER 10 CFR 61	CLASS A	4	6	0
	CLASS B	2	0	0
	CLASS C	0	0	0
	> CLASS C	0	0	0

B. NO IRRADIATED FUEL SHIPMENTS

SINCE CONTAINER VOLUMES ARE PROVIDED BY BURIAL SITE, A CALCULATIONAL ERROR OF ZERO IS ASSUMED

TABLE 4

1st Half - 1998

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

LOWER LIMITS OF DETECTABILITY (LLD)

	uCi/cc	uCi/cc	uCi/cc
	GAS	LIQUID	FILTER PAPER / CHARCOAL
	GRAB SAMPLE	GRAB SAMPLE	CONTINUOUS EFFLUENT SAMPLE
NUCLIDE	(1000 cc)	(1000 cc)	(2.85E+8 cc) ‡‡
H-3	1.00E-06	1.00E-06	-------
Na-24	3.01E-07	3.81E-08	1.44E-13
Ar-41	2.34E-07	-------	-------
Cr-51	5.90E-07	3.39E-07	1.05E-12
Mn-54	1.10E-07	4.33E-08	9.06E-14
Fe-55	-------	‡ 1.00E-06	-------
Fe-59	2.12E-07	6.42E-08	3.46E-13
Co-57	6.90E-08	3.21E-08	8.57E-14
Cu-58	1.12E-07	4.97E-08	2.10E-13
Co-60	2.82E-07	1.03E-07	3.17E-13
Zn-65	3.06E-07	7.81E-08	4.13E-13
Kr-85	3.97E-5 / ‡1.00E-10	8.65E-08	-------
Kr-85m	9.82E-08	-------	-------
Kr-87	1.71E-07	-------	-------
Kr-88	2.[illegible]E-07	-------	-------
Sr-89	--	‡ 5.00E-08	‡ 1.00E-13
Sr-90	---	‡ 5.00E-08	‡ 1.00E-14
Sr-92	-------	4.18E-08	2.80E-13
Nb-95	-------	4.53E-08	1.80E-13
Nb-97	-------	4.08E-08	1.72E-13
Zr-95	-------	6.45E-08	2.87E-13
Mo-99	5.14E-08	3.44E-08	8.22E-14
Tc-99m	5.01E-08	3.36E-08	8.02E-14
Ag-110m	-------	4.04E-08	1.92E-13
Sb-124	-------	5.74E-08	1.20E-13
Sb-125	-------	1.12E-07	4.23E-13
I-131	6.92E-08	4.57E-08	2.22E-13
I-133	8.35E-08	5.49E-08	1.36E-13
I-135	6.37E-07	1.73E-07	1.06E-12
Xe-131m	3.28E-06	1.77E-06	-------
Xe-133	2.59E-07	9.41E-08	-------
Xe-133m	8.25E-07	3.35E-07	-------
Xe-135	8.63E-08	4.15E-08	-------
Xe-135m	1.17E-07	5.12E-08	-------
Xe-138	2.22E-07	1.16E-07	-------
Cs-134	1.04E-07	5.16E-08	1.44E-13
Cs-137	1.37E-07	5.48E-08	1.63E-13
Ba-139	2.93E-07	1.96E-07	5.09E-13
Ba-140	3.47E-07	1.51E-07	3.46E-13
La-140	3.47E-07	3.59E-08	1.72E-13
Ce-141	9.89E-08	6.33E-08	1.58E-13
Ce-144	4.30E-07	2.99E-07	7.37E-13
Gross Alpha	-------	‡ 1.00E-07	1.72E-16

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.

‡‡ These LLD calculations contain a default weekly continuous sample volume of 2.85E+8 cc. Therefore, grab sample LLD values would reflect a different volume (ie: 10 cubic feet or 2.83E+5 cc).

Table 5A

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

ASSESSMENT OF RADIATION DOSES

UNIT 1		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Year	
LIQUID EFFLUENTS Batch Releases		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 DOSE	4.59E-03	0.0918	2.80E-02	0.5600		0.0000		0.0000	3.26E-02	0.3259
	LIVER DOSE	8.55E-03	0.1710	1.17E-02	0.2340		0.0000		0.0000	2.03E-02	0.2025
ORGAN	TOTAL BODY DOSE	6.45E-03	0.4300	3.48E-02	2.3200		0.0000		0.0000	4.12E-02	1.3750
	THYROID DOSE	2.02E-03	0.0404	9.85E-04	0.0197		0.0000		0.0000	3.01E-03	0.0301
	KIDNEY DOSE	3.58E-03	0.0716	1.63E-02	0.3260		0.0000		0.0000	1.99E-02	0.1988
(1)	LUNG DOSE	2.08E-03	0.0416	6.05E-03	0.1210		0.0000		0.0000	8.13E-03	0.0813
	GI-LLI DOSE	4.13E-03	0.0826	1.15E-02	0.2300		0.0000		0.0000	1.56E-02	0.1563

UNIT 1		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Year	
GASEOUS EFFLUENTS Batch & Continuous Releases		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
(2)	BETA AIR DOSE	5.00E-01	5.0000	1.28E-09	0.0000		0.0000		0.0000	5.00E-01	2.5000
(2)	GAMMA AIR DOSE	5.67E-02	1.1340	1.70E-08	0.0000		0.0000		0.0000	5.67E-02	0.5670
	BONE DOSE	5.78E-03	0.0771	9.99E-04	0.0133		0.0000		0.0000	6.78E-03	0.0452
	LIVER DOSE	3.04E-02	0.4053	2.14E-02	0.2853		0.0000		0.0000	5.18E-02	0.3453
ORGAN	TOTAL BODY DOSE	2.93E-02	0.3907	2.12E-02	0.2827		0.0000		0.0000	5.05E-02	0.3367
	THYROID DOSE	2.24E-01	2.9867	2.40E-02	0.3200		0.0000		0.0000	2.48E-01	1.6533
	KIDNEY DOSE	2.98E-02	0.3973	2.12E-02	0.2827		0.0000		0.0000	5.10E-02	0.3400
(3)	LUNG DOSE	3.14E-02	0.4187	2.17E-02	0.2893		0.0000		0.0000	5.31E-02	0.3540
	GI-LLI DOSE	2.91E-02	0.3880	2.13E-02	0.2840		0.0000		0.0000	5.04E-02	0.3360

(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 gaseous effluents (0.4 mi NW)

(3) These doses are listed in mrem; they are calculated for the most likely exposed real individual (child) via all real pathways at 0.89 mi NW.

Limits used for calculation of percent (%) are from Section 3/4.11, Article 3.11.1.2, 3.11.2.1, 3.11.2.2 and 3.11.7.3 of the Technical Specifications (considered to be the Design Objectives).

Table 5B

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

ASSESSMENT OF RADIATION DOSES

UNIT 2		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Year	
LIQUID EFFLUENTS Batch Releases		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 DOSE	4.59E-03	0.0918	2.80E-02	0.5600		0.0000		0.0000	3.26E-02	0.3259
	LIVER DOSE	8.55E-03	0.1710	1.17E-02	0.2340		0.0000		0.0000	2.03E-02	0.2025
ORGAN	TOTAL BODY DOSE	6.45E-03	0.4300	3.48E-02	2.3200		0.0000		0.0000	4.12E-02	1.3750
	THYROID DOSE	2.02E-03	0.0404	9.85E-04	0.0197		0.0000		0.0000	3.01E-03	0.0301
	KIDNEY DOSE	3.58E-03	0.0716	1.63E-02	0.3260		0.0000		0.0000	1.99E-02	0.1988
(1)	LUNG DOSE	2.08E-03	0.0416	6.05E-03	0.1210		0.0000		0.0000	8.13E-03	0.0813
	GI-LLI DOSE	4.13E-03	0.0826	1.15E-02	0.2300		0.0000		0.0000	1.56E-02	0.1563

UNIT 2		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Year	
GASEOUS EFFLUENTS Batch & Continuous Releases		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
(2)	BETA AIR DOSE	1.65E-03	0.0165	1.28E-09	0.0000		0.0000		0.0000	1.65E-03	0.0083
(2)	GAMMA AIR DOSE	5.71E-04	0.0114	1.70E-08	0.0000		0.0000		0.0000	5.71E-04	0.0057
	BONE DOSE	2.30E-04	0.0031	1.54E-06	0.0000		0.0000		0.0000	2.32E-04	0.0015
	LIVER DOSE	8.13E-03	0.1084	4.63E-03	0.0617		0.0000		0.0000	1.28E-02	0.0851
ORGAN	TOTAL BODY DOSE	8.15E-03	0.1087	4.63E-03	0.0617		0.0000		0.0000	1.28E-02	0.0852
	THYROID DOSE	8.13E-03	0.1084	4.63E-03	0.0617		0.0000		0.0000	1.28E-02	0.0851
	KIDNEY DOSE	8.13E-03	0.1084	4.63E-03	0.0617		0.0000		0.0000	1.28E-02	0.0851
(3)	LUNG DOSE	8.29E-03	0.1105	4.64E-03	0.0619		0.0000		0.0000	1.29E-02	0.0862
	GI-LLI DOSE	8.16E-03	0.1088	4.63E-03	0.0617		0.0000		0.0000	1.28E-02	0.0853

(1) These doses are listed in area; 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 gaseous effluents (0.4 mi NW)

(3) These doses are listed in area; they are calculated for the most likely exposed real individual (child) via all real pathways at 0.89 mi NW.

Limits used for calculation of percent (%) 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 (considered to be the Design Objectives).

TABLE 6

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

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

(RM-GW-101) - Unit 1 Waste Gas Decay Tanks Radiation Monitor and its Sampler Flow-Rate Measuring Device

As previously reported, this monitor has been unreliable for the 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 have no reference to a radiation monitor or a sampler flow-rate measuring device on the Waste Gas Holdup System, Explosive Gas Monitoring System.

Duquesne Light Company has submitted Technical Specification Change Request No. 1A-136 to remove RM-GW-101 operability requirements and revise the surveillance requirements. The Technical Specification Amendment was granted by the NRC on March 30, 1988 and subsequently placed into effect on April 7, 1988.

(Monitor Item No. 29) - Unit 2 Process Flow-Rate Monitor for the Condensate Polishing Building Vent Monitor

This flow-rate monitor has been inoperable from March 8, 1988 through the end of the report period due to equipment failure of the isokinetic nozzle. The lag time in obtaining a replacement probe from the vendor caused us to exceed the 30 day criteria. Maintenance Work Request (MWR) No. 887195 addresses this item.

As required by LCO 3.3.3.10 (Table 3.3-13, Action Statement No. 28) flow rates must be obtained every four hours during periods of inoperability. Contrary to this, flow-rates were not estimated from June 8, 1988 to June 24, 1988. There were no health and safety implications to the general public, because, offsite dose calculations were performed using ODCM maximum default system flowrates. This is internally documented in UONR No. 2-88-55.

(2CWS-FT-101) - Unit 2 Cooling Tower Blowdown Flow-Rate Monitor

This flow-rate monitor was inoperable from May 24, 1988 through the end of the report period due to an electrical storm. The lag time in obtaining replacement parts from the vendor caused us to exceed the 30 day criteria. As required by LCO 3.3.3.9 (Table 3.3-12, Action Statement No. 25) flow rates were estimated every four hours during periods of effluent releases. MWR No. 085821 addresses this item.

TABLE 7

1st Half - 1968

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

40 CFR 190 ENVIRONMENTAL DOSES

(Submitted annually for the complete year)

TABLE 8

1st Half - 1988

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

TECHNICAL SPECIFICATION SURVEILLANCE DEFICIENCIES

As specified by Surveillance Requirement 4.3.3.9 (Table 4.3-12) and 4.3.3.10 (Table 4.3-13), liquid and gaseous effluent monitors are required to be radiation source checked at the appropriate frequencies. Contrary to this, on March 31, 1988 a Quality Assurance Department Audit (BVI-88-01) revealed that the radiation source checks were not being performed at the required frequencies for the following effluent monitoring instrumentation channels:

1. (RM-DA-100) - Auxiliary Feed Pump Bay Drain Monitor. This monitor is required to have a daily source check.

2. (RM-RW-100) - Component Cooling / Recirculation Spray Heat Exchangers River Water Monitor. This monitor is required to have a monthly source check.

3. (RM-GW-101) - Waste Gas Decay Tanks Radiation Monitor. This monitor is required to have a monthly source check.

   NOTE: This monitor was removed from the Technical Specifications during the report period, see Table 6 of this report for further information.

4. (RM-VS-101B) - Noble Gas Activity Monitor for the Auxiliary Building Ventilation System. This monitor is required to have a monthly source check.

5. (RM-VS-107B) - Noble Gas Activity Monitor for the Reactor Building / Supplementary Leak Collection and Release System. This monitor is required to have a monthly source check.

Immediate corrective action included the incorporation of Operating Manual Change Notices (OMCNs) No. 88-109 and 88-110. Also, the above monitors were immediately source checked and declared operable on March 31, 1988 with the exception of RM-VS-101B. This monitor was returned to service on April 8, 1988.

There were no safety implications to the health and safety of the general public as a result of the failure to perform the source checks. A review of past Operational Surveillance Tests (OSTs), Maintenance Surveillance Procedures (MSPs) and Maintenance Work Requests (MWRs) indicated that the detectors were always operable and capable of responding to the sources. Per the bases for Surveillance Requirements 4.3.3.9 and 4.3.3.10, along with UFSAR Section 11.3.3, the monitors are to be operable to measure any radioactive release. Additionally, the appropriate detectors were source checked prior to each batch release in accordance with the Radiological Control Manual. The channel checks that were performed once per shift would also have indicated any upscale or downscale failure of a monitor.

Table 1

Beaver Valley Meteorological Data Recovery
First Quarter 1988

	Continuous Release	Batch Release	Comments
Joint delta T (150ft-35ft) and 35-ft wind	100.0%	100%	There were no data losses on the digital system.
Joint delta T (500ft-35ft) and 500-ft wind	100.0%	100%	There were no data losses on the digital system.

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 1988

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1968 ***

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	1	2	0	0	1	0	0	1	1	0	0	0	0	0	5
3.51- 7.50	0	0	0	2	0	1	1	0	1	0	0	0	0	1	0	1	7
7.51-12.50	0	0	0	0	0	0	0	0	0	3	6	2	2	2	0	0	15
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	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	0	0	1	4	0	1	2	0	1	3	7	3	2	3	0	1	28

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
3.51- 7.50	0	0	0	0	0	0	1	0		0	0	0	0	1	1	0	4
7.51-12.50	0	1	0	0	0	0	0	0	1	0	0	1	2	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	0	0	0	0	1	0	2	0	0	1	2	1	1	0	9

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	1	0	1	0	1	0	1	0	0	0	2	1	0	0	7
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	1	0	2	0	1	0	0	0	2	2	0	0	9

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	19	21	16	14	12	4	5	0	4	7	9	9	8	17	19	11	175
3.51- 7.50	27	15	5	9	10	3	1	6	11	17	36	112	135	86	65	28	566
7.51-12.50	1	0	0	0	0	0	0	0	4	15	23	114	102	19	15	2	295
12.51-18.50	0	0	0	0	0	0	0	0	0	1	2	7	3	0	0	0	13
18.51-24.00	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	47	36	21	23	22	7	6	6	19	40	70	242	248	122	99	41	1049

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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																	4
0.76- 3.50	17	18	23	27	18	22	15	21	28	33	19	16	18	19	20	16	330
3.51- 7.50	16	7	2	7	3	1	1	2	24	38	41	41	16	10	13	20	242
7.51-12.50	0	0	0	0	0	0	0	0	3	5	33	41	7	3	1	0	93
12.51-18.50	0	0	0	0	0	0	0	0	0	4	5	1	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	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	33	25	25	34	21	23	16	23	55	80	98	99	41	32	34	36	679

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																	6
0.76- 3.50	10	1	10	8	9	19	30	28	33	7	8	1	2	1	3	6	176
3.51- 7.50	0	0	0	0	1	0	0	0	2	8	1	0	0	0	0	1	13
7.51-12.50	0	0	0	0	0	0	0	0	1	2	2	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
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	1	10	8	10	19	30	28	36	17	11	1	2	1	3	7	200

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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																	4
0.76- 3.50	4	11	10	29	30	17	20	30	15	7	7	3	3	2	5	1	194
3.51- 7.50	0	1	0	2	0	0	0	0	3	[illegible]	0	1	0	0	0	0	11
7.51-12.50	0	0	0	0	0	0	0	0	1	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
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	12	10	31	30	17	20	30	19	11	7	4	3	2	5	1	210

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																	14
0.76- 3.50	50	51	60	80	69	62	72	79	80	54	44	29	31	39	47	34	881
3.51- 7.50	43	23	8	20	15	5	5	8	43	67	78	154	153	99	79	50	850
7.51-12.50	1	1	0	0	0	0	0	0	10	25	64	158	113	25	16	2	415
12.51-18.50	0	0	0	0	0	0	0	0	0	5	7	9	3	0	0	0	24
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	94	75	68	100	84	67	77	87	133	151	193	350	300	163	142	86	2184

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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: 2184

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 4.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.28	0.41	0.41	48.03	31.09	9.16	9.62

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	1	4	0	1	2	0	1	3	7	3	2	3	0	1	0
B	0	1	0	0	0	0	1	0	2	0	0	1	2	1	1	0	0
C	0	0	1	0	1	0	2	0	1	0	0	0	2	2	0	0	0
D	47	36	21	23	22	7	6	6	19	40	70	242	248	122	99	41	0
E	33	25	25	34	21	23	16	23	55	80	98	99	41	32	34	36	4
F	10	1	10	8	10	19	30	28	36	17	11	1	2	1	3	7	6
G	4	12	10	31	30	17	20	30	19	11	7	4	3	2	5	1	4
TOTAL	94	75	68	100	84	67	77	87	133	151	193	350	300	163	142	86	14

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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 AT500.00 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	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 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 AT500.00 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	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

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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 AT500.00 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	1	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	1	0	1	0	1	0	0	3
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	1	0	0	2	0	1	0	1	0	1	0	0	6

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 AT500.00 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	10	6	3	6	5	3	5	2	8	1	6	1	4	4	0	2	66
3.51- 7.50	20	11	21	19	14	9	11	5	2	8	10	22	10	19	13	15	209
7.51-12.50	40	10	9	12	13	12	8	7	16	35	42	80	84	62	39	31	500
12.51-18.50	12	4	2	0	7	11	9	4	22	52	70	97	147	74	14	8	533
18.51-24.00	1	0	0	0	0	0	0	1	9	17	32	36	81	32	2	0	211
>24.00	0	0	0	0	0	0	0	0	0	6	1	2	12	10	0	0	31
TOTAL	83	31	35	37	39	35	33	19	57	119	161	238	338	201	68	56	1552

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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 AT500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	3
0.76- 3.50	1	2	1	4	4	8	5	7	6	5	6	4	6	7	4	2	72
3.51- 7.50	3	2	5	6	3	9	3	7	5	4	11	8	15	16	8	3	108
7.51-12.50	6	2	10	4	7	6	11	1	6	11	11	19	10	7	5	3	119
12.51-18.50	0	0	0	0	0	1	2	6	15	25	17	6	2	0	0	0	74
18.51-24.00	0	0	0	0	0	0	1	3	3	7	8	0	1	0	0	0	23
>24.00	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	7
TOTAL	10	6	16	14	14	24	22	24	35	58	54	37	34	30	17	8	406

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 AT500.00 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	1	0	7	3	4	6	2	3	2	2	0	0	1	34
3.51- 7.50	0	0	0	0	6	9	4	2	10	9	1	2	0	1	2	0	46
7.51-12.50	0	0	0	0	5	14	5	3	21	7	9	1	1	0	0	0	66
12.51-18.50	0	0	0	0	0	0	2	4	8	12	5	0	1	0	0	0	32
18.51-24.00	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	3	1	11	30	14	13	46	30	19	5	4	1	2	1	182

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEA E
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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 AT500.00 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	1	0	1	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	1	0	3	3	4	1	0	0	0	0	0	12
12.51-18.50	0	0	0	0	0	1	0	6	4	4	7	0	0	0	0	0	22
18.51-24.00	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
>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	2	2	9	8	8	9	0	0	0	0	0	38

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 AT500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	wSW	W	WNW	NW	NNW	TOTAL
CALM																	7
0.76- 3.50	11	8	7	11	9	18	13	13	20	8	15	7	12	11	4	5	172
3.51- 7.50	23	13	26	25	23	27	19	14	18	21	22	32	25	36	23	18	365
7.51-12.50	46	12	19	16	26	33	24	16	46	57	63	100	95	69	44	34	700
12.51-18.50	12	4	2	0	7	13	13	20	49	94	99	104	150	75	14	8	664
18.51-24.00	1	0	0	0	0	0	2	4	13	24	42	36	82	32	2	0	238
>24.00	0	0	0	0	0	0	0	0	0	12	2	2	12	10	0	0	38
TOTAL	93	37	54	52	65	91	71	67	146	216	243	281	376	233	87	65	2184

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 11.7 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	0.27	71.06	18.59	8.33	1.74

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	1	0	0	2	0	1	0	1	0	1	0	0	0
D	83	31	35	37	39	35	33	19	57	119	161	238	338	201	68	56	2
E	10	6	16	14	14	24	22	24	35	58	54	37	34	30	17	8	3
F	0	0	3	1	11	30	14	13	46	30	19	5	4	1	2	1	2
G	0	0	0	0	0	2	2	9	8	8	9	0	0	0	0	0	0
TOTAL	93	37	54	52	65	91	71	67	146	216	243	281	376	233	87	65	7

Beaver Valley
Joint Frequency Distribution Tables
for
Batch Releases

First Quarter 1988

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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	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	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

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	NW	TAL
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	1	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	1	0	1
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
SITE IDENTIFIER: OLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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	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 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	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	1	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	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	0	0	1	0	3

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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	0	0	0	0	1	0	0	0	1	2	1	0	0	3	1	0	9
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	1	2	1	3	3	2	13
7.51-12.50	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	4
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	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	0	0	0	0	1	0	0	0	1	3	5	3	1	6	5	2	27

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	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	1	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	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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	2	0	2	0	2	1	1	2	1	0	0	1	0	12
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	2	0	2	0	2	1	1	2	1	0	0	1	0	12

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	0	0	0	2	1	2	0	2	2	3	3	1	0	3	2	0	21
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	3	2	1	3	4	3	17
7.51-12.50	0	0	0	0	0	0	0	0	0	0	3	1	0	0	2	0	6
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	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	0	0	0	2	1	2	0	2	2	4	9	5	1	6	8	3	45

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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: 45

TOTAL NUMBER OF VALID OBSERVATIONS: 45

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 4.3 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.22	2.22	0.00	6.67	60.00	2.22	26.67

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	1	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0
E	0	0	0	0	1	0	0	0	1	3	5	3	1	6	5	2	0
F	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
G	0	0	0	2	0	2	0	2	1	1	2	1	0	0	1	0	0
TOTAL	0	0	0	2	1	2	0	2	2	4	9	5	1	6	8	3	0

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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 AT500.00 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	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 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 AT500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.75- 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

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: OLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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 AT500.00 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	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 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 AT500.00 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	2	0	0	1	1	1	0	3	0	0	1	0	0	9
3.51- 7.50	0	1	3	3	4	4	1	0	0	1	5	4	0	5	3	2	36
7.51-12.50	12	1	0	4	1	0	0	0	2	11	17	13	6	7	5	8	87
12.51-18.50	0	0	0	0	0	3	1	0	0	16	18	23	23	8	0	0	92
18.51-24.00	0	0	0	0	0	0	0	0	5	12	6	4	13	11	0	0	51
>24.00	0	0	0	0	0	0	0	0	0	6	0	0	1	2	0	0	9
TOTAL	12	2	3	9	5	7	3	1	8	46	49	44	43	34	8	10	284

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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 AT500.00 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	1	0	0	0	0	0	0	0	0	0	1	0	2	0	0	4
3.51- 7.50	0	1	0	0	0	1	0	1	1	0	4	2	2	1	0	1	14
7.51-12.50	3	1	0	0	1	1	0	0	2	2	5	0	3	0	1	1	20
12.51-18.50	0	0	0	0	0	0	1	1	4	5	6	2	0	0	0	0	19
18.51-24.00	0	0	0	0	0	0	1	3	2	1	2	0	1	0	0	0	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	3	0	0	1	2	2	5	9	8	17	5	6	3	1	2	67

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 AT500.00 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	1	0	0	0	0	0	0	0	0	1	2	0	4
7.51-12.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	1	1	2	2	0	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	0	0	0	0	2	0	0	1	1	2	2	0	0	1	2	0	11

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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 AT500.00 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	1	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	2	1	0	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	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	3	1	0	0	0	0	0	0	0	4

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 AT500.00 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	1	0	2	0	0	1	1	1	0	3	1	0	3	0	0	13
3.51- 7.50	0	2	3	3	5	5	1	1	1	1	9	6	2	7	5	3	54
7.51-12.50	15	2	0	4	3	1	0	1	4	13	22	13	9	7	6	9	109
12.51-18.50	0	0	0	0	0	3	2	4	6	23	26	25	23	8	0	0	120
18.51-24.00	0	0	0	0	0	0	1	3	7	13	8	4	14	11	0	0	61
>24.00	0	0	0	0	0	0	0	0	0	6	0	0	1	2	0	0	9
TOTAL	15	5	3	9	8	9	5	10	19	56	68	49	49	38	11	12	366

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 1/ 1/88 - 3/31/88

*** FIRST QUARTER 1988 ***

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: 366

TOTAL NUMBER OF VALID OBSERVATIONS: 366

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 13.1 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	77.60	18.31	3.01	1.09

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	12	2	3	9	5	7	3	1	8	46	49	44	43	34	8	10	0
E	3	3	0	0	1	2	2	5	9	8	17	5	6	3	1	2	0
F	0	0	0	0	2	0	0	1	1	2	2	0	0	1	2	0	0
G	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0
TOTALS	15	5	3	9	8	9	5	10	19	56	68	49	49	38	11	12	0

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

First Quarter 1988

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 150-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				--------35 FT-------				--------150 FT-------				--------500 FT--------									
YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	SC	DELTA T 500-35 (F)	SC	RAIN FALL (IN)
88	1	30	17	7.6	234		99.9	-	9.9	229		99.9	-	17.9	219		99.9	-	56.5	25.5	0.0	E	-1.5	D	0.00
88	1	30	18	3.4	220		99.9	-	6.6	221		99.9	-	12.8	211		99.9	-	54.9	24.7	0.4	E	-0.4	E	0.00
88	1	30	19	2.7	179		99.9	-	6.8	216		99.9	-	13.8	211		99.9	-	47.7	27.5	6.7	G	6.3	F	0.00
88	1	30	20	2.0	165		99.9	-	4.0	225		99.9	-	10.8	221		99.9	-	45.6	29.1	8.2	G	8.5	F	0.00
88	1	30	21	1.1	60		99.9	-	3.6	197		99.9	-	7.1	208		99.9	-	42.9	30.3	8.2	G	10.0	F	0.00
88	1	30	22	1.0	161		99.9	-	3.0	13		99.9	-	8.8	206		99.9	-	39.7	30.1	5.7	G	11.8	G	0.00
88	1	30	23	1.0	116		99.9	-	1.5	229		99.9	-	12.8	216		99.9	-	37.8	29.3	7.3	G	11.9	G	0.00
88	1	30	24	1.5	63		99.9	-	3.4	13		99.9	-	8.4	205		99.9	-	38.2	29.0	7.3	G	11.9	G	0.00
88	1	31	1	1.0	117		99.9	-	1.7	28		99.9	-	12.4	215		99.9	-	36.7	29.4	4.9	G	11.9	G	0.00
88	1	31	2	0.9	207		99.9	-	5.7	242		99.9	-	16.2	221		99.9	-	35.1	30.0	8.2	G	11.9	G	0.00
88	1	31	3	1.6	230		99.9	-	6.1	239		99.9	-	17.3	217		99.9	-	35.9	30.6	8.2	G	11.9	G	0.00
88	1	31	4	0.9	323		99.9	-	7.1	221		99.9	-	16.5	209		99.9	-	35.7	30.5	8.2	G	11.9	G	0.00
88	1	31	5	3.4	220		99.9	-	7.7	226		99.9	-	16.5	212		99.9	-	44.4	31.1	6.7	G	6.7	F	0.00
88	1	31	6	2.5	244		99.9	-	6.5	227		99.9	-	14.9	211		99.9	-	45.7	32.0	5.2	G	4.8	F	0.00
88	1	31	7	5.2	222		99.9	-	8.6	219		99.9	-	16.8	210		99.9	-	49.6	31.8	1.4	F	0.5	E	0.00
88	1	31	8	5.9	212		99.9	-	8.7	210		99.9	-	18.2	204		99.9	-	50.7	32.5	0.2	E	-0.6	E	0.00
88	1	31	9	8.3	222		99.9	-	10.6	214		99.9	-	17.1	206		99.9	-	52.9	34.9	0.0	E	-1.6	D	0.00
88	1	31	10	8.2	218		99.9	-	11.3	216		99.9	-	17.2	211		99.9	-	55.8	36.7	-0.1	E	-2.0	D	0.00
88	2	3	23	2.1	173		99.9	-	2.5	186		99.9	-	2.6	359		99.9	-	35.4	35.4	-0.1	E	-0.5	E	0.09
88	2	3	24	3.9	267		99.9	-	7.5	281		99.9	-	10.6	313		99.9	-	35.3	35.3	-0.1	E	-1.8	D	0.07
88	2	4	1	2.7	298		99.9	-	5.1	298		99.9	-	8.7	329		99.9	-	34.3	34.1	0.0	E	-1.8	D	0.06
88	2	4	2	3.4	301		99.9	-	6.4	299		99.9	-	9.8	321		99.9	-	33.7	33.3	0.0	E	-1.8	D	0.09
88	2	4	3	4.7	307		99.9	-	10.2	294		99.9	-	11.2	311		99.9	-	31.6	30.2	-0.1	E	-1.7	D	0.01
88	2	4	4	4.6	296		99.9	-	7.3	306		99.9	-	12.1	329		99.9	-	28.5	26.9	-0.3	E	-2.2	D	0.00
88	2	4	5	5.2	301		99.9	-	8.1	297		99.9	-	12.8	321		99.9	-	27.7	24.3	0.2	E	-2.0	D	0.00
88	2	4	6	5.0	316		99.9	-	8.4	307		99.9	-	14.3	324		99.9	-	26.9	23.1	0.0	E	-2.2	D	0.00
88	2	4	7	4.5	330		99.9	-	6.8	339		99.9	-	11.8	344		99.9	-	26.2	21.0	0.0	E	-2.3	D	0.00
88	2	4	8	5.7	323		99.9	-	8.2	328		99.9	-	12.9	340		99.9	-	26.2	20.1	0.0	E	-2.4	D	0.00
88	2	4	9	6.0	297		99.9	-	9.1	305		99.9	-	12.0	329		99.9	-	25.8	19.8	0.0	E	-2.4	D	0.00
88	2	4	10	4.7	327		99.9	-	7.6	319		99.9	-	9.5	342		99.9	-	28.3	19.8	-2.1	A	-3.6	D	0.00
88	2	4	13	6.5	306		99.9	-	11.0	307		99.9	-	15.3	322		99.9	-	20.6	18.6	-1.1	B	-3.1	D	0.13
88	2	4	14	7.9	320		99.9	-	10.7	320		99.9	-	15.3	327		99.9	-	27.0	16.3	-0.3	E	-2.6	D	0.00
88	2	4	15	7.9	315		99.9	-	12.4	306		99.9	-	14.7	318		99.9	-	26.7	17.6	-0.6	D	-2.7	D	0.00
88	2	4	16	5.0	332		99.9	-	7.8	316		99.9	-	11.4	326		99.9	-	26.6	13.3	-0.2	E	-2.6	D	0.00
88	2	7	22	8.2	230		99.9	-	7.7	235		99.9	-	12.8	232		99.9	-	24.2	19.5	-0.4	D	-2.1	D	0.00
88	2	7	23	9.2	239		99.9	-	11.4	244		99.9	-	16.1	244		99.9	-	25.3	999.9	-0.4	D	-2.2	D	0.00
88	2	7	24	7.4	246		99.9	-	9.8	248		99.9	-	13.6	247		99.9	-	25.3	18.3	-0.3	E	-2.1	D	0.00
88	2	8	1	6.8	238		99.9	-	8.4	242		99.9	-	12.5	244		99.9	-	25.3	18.8	-0.3	E	-2.1	D	0.00
88	2	8	2	6.6	231		99.9	-	8.0	236		99.9	-	11.5	242		99.9	-	25.1	18.6	-0.3	E	-2.1	D	0.00
88	2	18	7	0.8	296		99.9	-	1.8	301		99.9	-	1.4	233		99.9	-	27.9	25.9	0.6	E	2.6	E	0.00
88	2	18	8	1.0	93		99.9	-	1.9	209		99.9	-	3.1	294		99.9	-	28.1	25.6	0.4	E	1.2	E	0.00
88	2	18	9	1.9	313		99.9	-	1.8	286		99.9	-	0.8	204		99.9	-	31.1	28.1	0.0	E	0.0	E	0.00
88	2	19	20	2.8	193		99.9	-	6.2	164		99.9	-	14.5	170		99.9	-	43.0	41.5	-0.2	E	-1.7	D	0.01
88	2	19	21	1.9	210		99.9	-	3.7	174		99.9	-	15.2	181		99.9	-	44.8	42.8	-0.2	E	-1.8	D	0.00
88	2	20	1	13.1	247		99.9	-	18.9	258		99.9	-	26.4	257		99.9	-	44.5	37.9	-0.2	E	-3.2	D	0.00

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

First Quarter 1988

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				35 FT			150 FT			500 FT			AMB.	DEW					
YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG) SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG) SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG) SC	TEMP 35F (F)	POINT 35F (F)	DELTA T 150-35 (F)	SC	DELTA T 500-35 (F)	SC	RAIN FALL (IN)
88	1	20	9	5.6	239	99.9 -	9.3	239	99.9 -	15.6	225	99.9 -	51.7	48.0	3.0	G	1.6	E	0.00
88	1	20	10	8.5	239	99.9 -	11.7	237	99.9 -	16.2	226	99.9 -	54.5	47.5	0.7	E	-0.6	E	0.00
88	1	20	11	8.0	234	99.9 -	11.3	235	99.9 -	15.0	228	99.9 -	54.1	46.0	1.8	F	0.3	E	0.00
88	1	20	16	10.6	244	99.9 -	14.7	242	99.9 -	22.6	189	99.9 -	60.9	36.5	-0.1	E	-1.9	D	0.00
88	1	20	17	7.7	248	99.9 -	10.3	242	99.9 -	17.4	234	99.9 -	59.4	999.9	0.0	E	-1.3	D	0.00
88	1	20	18	3.4	195	99.9 -	7.5	249	99.9 -	15.5	234	99.9 -	54.1	999.9	2.9	G	2.4	E	0.00
88	1	20	19	4.4	212	99.9 -	9.5	249	99.9 -	16.4	258	99.9 -	52.7	36.9	3.0	G	2.4	E	0.00
88	1	20	20	7.9	272	99.9 -	16.9	275	99.9 -	23.1	282	99.9 -	52.2	37.9	0.0	E	-1.5	D	0.00
88	1	20	21	6.5	267	99.9 -	13.4	275	99.9 -	20.2	279	99.9 -	46.9	33.4	-0.1	E	-1.6	D	0.00
88	1	20	22	7.1	245	99.9 -	10.2	254	99.9 -	15.0	261	99.9 -	45.7	32.6	-0.2	E	-1.5	D	0.00
88	1	20	23	8.8	241	99.9 -	12.3	245	99.9 -	16.6	250	99.9 -	45.6	30.4	-0.2	E	-1.8	D	0.00
88	1	20	24	8.4	243	99.9 -	11.6	248	99.9 -	14.1	247	99.9 -	44.7	30.5	-0.3	E	-2.0	D	0.00
88	1	21	1	9.6	247	99.9 -	14.0	249	99.9 -	18.8	251	99.9 -	43.8	31.3	-0.3	E	-2.1	D	0.00
88	1	21	2	8.5	247	99.9 -	12.7	254	99.9 -	17.5	253	99.9 -	43.2	32.3	-0.3	E	-2.1	D	0.00
88	1	21	3	7.2	263	99.9 -	13.1	267	99.9 -	16.4	262	99.9 -	41.8	32.2	-0.3	E	-2.1	D	0.00
88	1	21	4	8.1	278	99.9 -	14.9	278	99.9 -	17.5	274	99.9 -	39.9	31.5	-0.4	D	-2.2	D	0.00
88	1	21	5	8.9	249	99.9 -	13.6	256	99.9 -	17.2	256	99.9 -	38.3	30.2	-0.4	D	-2.2	D	0.00
88	1	21	6	6.9	256	99.9 -	12.0	263	99.9 -	15.5	261	99.9 -	37.6	27.6	-0.4	D	-2.2	D	0.00
88	1	21	7	9.4	249	99.9 -	13.4	253	99.9 -	18.0	253	99.9 -	37.0	26.3	-0.5	D	-2.3	D	0.00
88	1	21	8	10.1	251	99.9 -	16.4	258	99.9 -	21.8	258	99.9 -	36.6	25.0	-0.5	D	-2.3	D	0.00
88	1	21	9	7.5	258	99.9 -	11.6	263	99.9 -	14.7	256	99.9 -	36.2	24.2	-0.5	D	-2.4	D	0.00
88	1	21	10	7.7	258	99.9 -	12.5	260	99.9 -	15.8	254	99.9 -	35.6	22.9	-0.5	D	-2.5	D	0.00
88	1	21	11	8.5	251	99.9 -	13.2	258	99.9 -	17.9	256	99.9 -	35.3	25.0	-0.6	D	-2.7	D	0.00
88	1	21	12	6.8	317	99.9 -	12.2	304	99.9 -	15.7	302	99.9 -	33.0	28.3	-0.6	D	-2.4	D	0.00
88	1	21	13	5.1	266	99.9 -	9.4	270	99.9 -	13.0	279	99.9 -	32.6	27.8	-0.5	D	-2.4	D	0.00
88	1	21	14	5.3	254	99.9 -	8.0	259	99.9 -	11.6	265	99.9 -	32.5	28.6	-0.5	D	-2.4	D	0.01
88	1	21	15	5.2	297	99.9 -	8.1	288	99.9 -	11.2	290	99.9 -	33.1	28.8	-0.5	D	-2.3	D	0.00
88	1	21	16	4.2	306	99.9 -	9.8	296	99.9 -	14.4	298	99.9 -	32.3	25.7	-0.5	D	-2.5	D	0.00
88	1	21	17	4.8	298	99.9 -	8.7	293	99.9 -	10.6	306	99.9 -	30.5	25.5	-0.5	D	-2.4	D	0.00
88	1	21	18	3.0	325	99.9 -	5.1	305	99.9 -	8.1	325	99.9 -	29.9	23.9	-0.5	D	-2.4	D	0.00
88	1	21	19	4.7	311	99.9 -	7.4	305	99.9 -	10.3	317	99.9 -	29.0	18.2	-0.5	D	-2.4	D	0.00
88	1	21	20	5.4	340	99.9 -	7.6	335	99.9 -	9.7	329	99.9 -	27.9	18.4	-0.5	D	-2.4	D	0.00
88	1	21	21	4.0	331	99.9 -	5.3	323	99.9 -	6.2	313	99.9 -	27.6	16.6	-0.5	D	-2.4	D	0.00
88	1	21	22	4.2	302	99.9 -	6.1	316	99.9 -	8.0	340	99.9 -	27.2	16.4	-0.6	D	-2.5	D	0.00
88	1	21	23	4.7	342	99.9 -	6.6	347	99.9 -	8.9	338	99.9 -	26.3	15.8	-0.5	D	-2.5	D	0.00
88	1	21	24	3.3	332	99.9 -	5.2	336	99.9 -	8.2	343	99.9 -	25.5	15.2	-0.5	D	-2.6	D	0.00
88	1	22	1	3.2	320	99.9 -	4.8	303	99.9 -	6.3	312	99.9 -	25.0	15.4	-0.6	D	-2.5	D	0.00
88	1	22	2	4.2	316	99.9 -	6.6	307	99.9 -	10.0	311	99.9 -	24.5	15.8	-0.5	D	-2.2	D	0.00
88	1	22	3	2.6	305	99.9 -	3.9	296	99.9 -	6.1	286	99.9 -	24.9	15.4	-0.5	D	-2.4	D	0.00
88	1	22	4	3.9	318	99.9 -	6.8	300	99.9 -	8.6	298	99.9 -	25.2	15.6	-0.6	D	-2.5	D	0.00
88	1	22	5	3.9	297	99.9 -	6.4	288	99.9 -	7.0	293	99.9 -	25.2	16.9	-0.6	D	-2.5	D	0.00
88	1	22	6	4.2	280	99.9 -	7.2	281	99.9 -	8.8	282	99.9 -	25.3	17.7	-0.6	D	-2.6	D	0.00
88	1	22	7	4.0	343	99.9 -	5.5	332	99.9 -	6.7	333	99.9 -	24.6	15.7	-0.5	D	-2.4	D	0.00
88	1	22	8	4.5	320	99.9 -	6.4	321	99.9 -	8.4	323	99.9 -	24.5	14.1	-0.5	D	-2.5	D	0.00
88	1	22	9	4.6	317	99.9 -	6.7	309	99.9 -	6.9	314	99.9 -	23.8	14.9	-0.6	D	-2.7	D	0.00
88	1	22	10	3.8	278	99.9 -	5.7	277	99.9 -	7.2	286	99.9 -	24.4	13.7	-0.5	D	-3.1	D	0.00
88	1	22	11	5.0	296	99.9 -	8.7	290	99.9 -	10.2	289	99.9 -	25.1	9.7	-0.7	D	-3.0	D	0.00
88	1	22	12	6.0	287	99.9 -	9.3	282	99.9 -	9.5	277	99.9 -	25.7	9.1	-0.6	D	-2.7	D	0.00

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				--------35 FT-------				--------150 FT-------				--------500 FT--------									
YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	SC	DELTA T 500-35 (F)	SC	RAIN FALL (IN)
88	1	22	13	5.6	315		99.9	-	7.9	302		99.9	-	9.5	302		99.9	-	26.9	10.6	-0.5	D	-3.0	D	0.00
88	1	22	14	5.0	304		99.9	-	9.1	295		99.9	-	11.4	288		99.9	-	27.3	11.6	-0.8	D	-3.0	D	0.00
88	1	22	15	4.4	281		99.9	-	7.5	274		99.9	-	9.4	268		99.9	-	27.6	12.6	-0.6	D	-2.7	D	0.00
88	1	22	16	5.4	266		99.9	-	8.0	259		99.9	-	9.8	255		99.9	-	27.1	15.9	-0.6	D	-2.6	D	0.00
88	1	22	17	5.3	253		99.9	-	7.5	249		99.9	-	8.0	243		99.9	-	27.6	14.8	-0.6	D	-2.5	D	0.00
88	1	22	18	4.8	245		99.9	-	6.0	246		99.9	-	7.3	252		99.9	-	27.1	17.5	-0.6	D	-2.3	D	0.00
88	1	22	19	4.1	212		99.9	-	5.5	225		99.9	-	10.8	242		99.9	-	26.9	18.0	-0.3	E	-1.9	D	0.00
88	1	22	20	4.2	253		99.9	-	5.8	246		99.9	-	7.7	243		99.9	-	27.3	17.0	-0.5	D	-2.2	D	0.00
88	1	31	14	9.3	240		99.9	-	11.4	231		99.9	-	16.6	222		99.9	-	61.8	40.5	-0.3	E	-2.2	D	0.00
88	1	31	15	10.9	219		99.9	-	14.5	215		99.9	-	20.8	216		99.9	-	61.7	40.7	-0.3	E	-2.1	D	0.00
88	1	31	16	8.9	217		99.9	-	12.3	212		99.9	-	18.7	205		99.9	-	61.8	40.8	-0.2	E	-1.9	D	0.00
88	1	31	17	5.3	210		99.9	-	8.3	202		99.9	-	14.4	202		99.9	-	61.3	40.8	-0.1	E	-1.6	D	0.00
88	1	31	18	6.3	208		99.9	-	10.1	206		99.9	-	17.2	203		99.9	-	60.9	40.4	0.0	E	-1.3	D	0.00
88	1	31	19	5.5	193		99.9	-	9.2	194		99.9	-	15.0	202		99.9	-	60.7	40.1	0.0	E	-1.2	E	0.00
88	1	31	20	4.7	210		99.9	-	7.5	210		99.9	-	15.3	204		99.9	-	60.4	39.8	0.0	E	-1.1	E	0.00
88	1	31	21	5.3	210		99.9	-	8.0	204		99.9	-	15.0	205		99.9	-	60.3	39.8	0.0	E	-1.2	E	0.00
88	1	31	22	4.1	234		99.9	-	6.1	218		99.9	-	12.6	213		99.9	-	60.5	40.7	-0.1	E	-1.5	D	0.00
88	1	31	23	5.1	221		99.9	-	7.7	215		99.9	-	14.9	213		99.9	-	59.9	41.2	0.0	E	-1.3	D	0.00
88	1	31	24	7.9	225		99.9	-	10.9	221		99.9	-	18.2	218		99.9	-	58.2	44.8	-0.5	D	-1.7	D	0.02
88	2	1	1	2.3	194		99.9	-	4.9	206		99.9	-	15.1	201		99.9	-	54.4	47.9	0.2	E	-0.4	E	0.01
88	2	1	2	8.5	218		99.9	-	10.5	217		99.9	-	17.0	213		99.9	-	56.5	47.6	-0.3	E	-1.8	D	0.00
88	2	1	3	6.4	223		99.9	-	8.7	222		99.9	-	14.8	215		99.9	-	56.7	48.1	-0.2	E	-1.7	D	0.00
88	2	1	4	5.6	235		99.9	-	7.7	237		99.9	-	11.7	223		99.9	-	56.8	48.5	-0.2	E	-1.9	D	0.00
88	2	1	5	7.6	213		99.9	-	9.9	215		99.9	-	15.5	214		99.9	-	55.2	50.7	-0.4	D	-1.8	D	0.03
88	2	1	6	5.6	215		99.9	-	8.6	210		99.9	-	15.2	208		99.9	-	53.3	51.4	-0.3	E	-1.7	D	0.05
88	2	1	7	5.6	223		99.9	-	8.0	216		99.9	-	13.6	212		99.9	-	53.4	51.3	-0.2	E	-1.7	D	0.02
88	2	1	8	6.1	216		99.9	-	8.3	212		99.9	-	14.8	207		99.9	-	53.8	51.4	-0.4	D	-2.2	D	0.00
88	2	1	9	6.3	223		99.9	-	7.9	216		99.9	-	14.7	209		99.9	-	54.1	51.9	-0.4	D	-2.7	D	0.01
88	2	1	10	3.8	259		99.9	-	6.3	266		99.9	-	9.6	248		99.9	-	54.0	52.0	-0.1	E	-2.1	D	0.00
88	2	1	11	2.8	227		99.9	-	4.8	225		99.9	-	9.8	229		99.9	-	53.6	53.0	-0.1	E	-1.7	D	0.01
88	2	1	12	2.8	265		99.9	-	5.0	255		99.9	-	9.1	229		99.9	-	54.8	52.8	-0.1	E	-2.2	D	0.00
88	2	1	13	4.4	206		99.9	-	6.6	211		99.9	-	11.5	219		99.9	-	55.7	53.3	-0.2	E	-2.5	D	0.02
88	2	1	14	1.1	296		99.9	-	2.9	226		99.9	-	8.9	213		99.9	-	55.1	54.0	0.1	E	-1.6	D	0.06
88	2	1	15	0.8	296		99.9	-	3.1	215		99.9	-	9.1	209		99.9	-	55.4	54.9	0.2	E	-1.5	D	0.09
88	2	1	16	2.4	247		99.9	-	4.2	208		99.9	-	11.3	209		99.9	-	56.3	54.7	0.0	E	-2.0	D	0.02
88	2	1	17	2.9	216		99.9	-	5.1	224		99.9	-	11.1	228		99.9	-	55.7	54.6	0.6	E	-1.1	E	0.05
88	2	1	18	4.4	214		99.9	-	7.0	227		99.9	-	13.4	242		99.9	-	56.7	56.9	0.0	E	-1.9	D	0.02
88	2	1	19	5.5	211		99.9	-	8.7	214		99.9	-	15.0	215		99.9	-	56.5	54.5	0.0	E	-2.2	D	0.01
88	2	1	20	3.9	240		99.9	-	7.0	240		99.9	-	12.3	243		99.9	-	55.2	53.5	0.4	E	-1.8	D	0.01
88	2	1	21	5.4	227		99.9	-	7.4	227		99.9	-	12.8	225		99.9	-	55.2	52.6	-0.2	E	-2.6	D	0.00
88	2	1	22	4.4	195		99.9	-	7.7	200		99.9	-	13.2	211		99.9	-	54.0	52.6	0.3	E	-1.6	D	0.01
88	2	1	23	0.9	177		99.9	-	2.2	217		99.9	-	6.9	206		99.9	-	53.9	52.7	0.1	E	-1.8	D	0.00
88	2	1	24	1.4	5		99.9	-	1.8	218		99.9	-	5.4	221		99.9	-	51.8	51.8	1.6	F	0.1	E	0.01
88	2	2	1	2.0	346		99.9	-	2.3	281		99.9	-	4.1	335		99.9	-	50.9	50.9	1.6	F	0.9	E	0.03
88	2	2	2	1.1	343		99.9	-	2.0	188		99.9	-	2.2	252		99.9	-	51.5	51.5	1.4	F	0.3	E	0.13
88	2	2	3	1.4	59		99.9	-	1.6	71		99.9	-	4.3	229		99.9	-	51.6	51.6	1.2	F	1.0	E	0.16
88	2	2	4	6.1	294		99.9	-	9.4	303		99.9	-	11.8	329		99.9	-	50.6	49.7	-1.1	B	-1.0	E	0.22
88	2	2	5	4.8	307		99.9	-	7.6	307		99.9	-	6.5	337		99.9	-	38.7	36.9	-0.9	D	-2.6	D	0.07

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				--------35 FT--------				--------150 FT-------				--------500 FT--------								
YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	SC	DELTA T 500-35 (F)	SC	RAIN FALL (IN)
88	2	2	6	2.1	333		99.9	-	3.0	309		99.9	-	5.5	1?		99.9	-	36.6	35.3	-0.2	E	-2.1	D	0.08
88	2	2	7	4.7	305		99.9	-	6.9	310		99.9	-	11.6	347		99.9	-	35.3	33.6	-0.1	E	-2.3	D	0.05
88	2	2	8	3.8	353		99.9	-	6.2	356		99.9	-	9.1	353		99.9	-	34.4	32.6	0.0	E	-2.2	D	0.01
88	2	2	9	5.2	342		99.9	-	7.5	343		99.9	-	12.5	347		99.9	-	33.9	31.9	-0.3	E	-2.5	D	0.00
88	2	2	10	5.8	349		99.9	-	9.0	349		99.9	-	11.8	345		99.9	-	34.0	31.8	-0.6	D	-2.8	D	0.02
88	2	2	11	3.4	340		99.9	-	5.3	352		99.9	-	8.6	353		99.9	-	32.6	30.4	-0.1	E	-1.7	D	0.08
88	2	2	12	5.9	345		99.9	-	7.7	350		99.9	-	8.4	353		99.9	-	32.2	29.5	-0.2	E	-2.3	D	0.02
88	2	2	13	4.2	336		99.9	-	6.4	341		99.9	-	8.4	346		99.9	-	31.8	29.1	-0.5	D	-2.6	D	0.00
88	2	2	14	3.9	354		99.9	-	6.0	354		99.9	-	8.1	353		99.9	-	31.0	28.4	-0.2	E	-2.3	D	0.01
88	2	2	15	4.5	13		99.9	-	8.0	11		99.9	-	9.3	359		99.9	-	30.5	27.0	0.0	E	-2.1	D	0.01
88	2	2	16	6.1	4		99.9	-	10.3	4		99.9	-	10.3	357		99.9	-	30.3	27.0	-0.1	E	-2.3	D	0.00
88	2	2	17	4.6	356		99.9	-	7.4	1		99.9	-	7.9	352		99.9	-	30.2	26.5	-0.1	E	-2.3	D	0.00
88	2	2	18	5.8	1		99.9	-	9.5	9		99.9	-	10.3	1		99.9	-	30.0	26.0	-0.1	E	-2.3	D	0.00
88	2	2	19	5.5	346		99.9	-	7.1	349		99.9	-	9.0	353		99.9	-	29.9	26.0	-0.2	E	-2.5	D	0.00
88	2	2	20	5.4	347		99.9	-	8.4	355		99.9	-	10.1	353		99.9	-	29.6	25.4	-0.3	E	-2.5	D	0.00
88	2	2	21	4.4	348		99.9	-	7.3	356		99.9	-	9.5	3		99.9	-	29.3	25.0	-0.3	E	-2.5	D	0.00
88	2	2	22	3.6	30		99.9	-	6.3	27		99.9	-	8.5	18		99.9	-	29.2	24.1	-0.3	E	-2.6	D	0.00
88	2	2	23	2.9	360		99.9	-	5.1	35		99.9	-	8.3	10		99.9	-	28.7	23.3	-0.3	E	-2.6	D	0.00
88	2	2	24	2.7	32		99.9	-	3.7	28		99.9	-	5.6	41		99.9	-	28.6	22.9	-0.3	E	-2.5	D	0.00
88	2	3	1	2.6	60		99.9	-	6.6	72		99.9	-	8.0	57		99.9	-	28.5	23.3	-0.3	E	-2.1	D	0.00
88	2	3	2	2.3	48		99.9	-	5.5	61		99.9	-	7.5	69		99.9	-	28.8	24.0	-0.3	E	-2.1	D	0.00
88	2	3	3	2.7	48		99.9	-	7.0	62		99.9	-	6.8	53		99.9	-	29.5	24.2	-0.1	E	-2.1	D	0.00
88	2	3	4	2.3	86		99.9	-	6.8	67		99.9	-	10.3	60		99.9	-	29.6	24.7	-0.1	E	-2.1	D	0.00
88	2	3	5	1.5	116		99.9	-	3.5	89		99.9	-	8.2	75		99.9	-	29.5	25.0	0.0	E	-2.0	D	0.00
88	2	3	6	1.6	159		99.9	-	2.9	113		99.9	-	5.5	77		99.9	-	29.6	25.5	0.0	E	-1.9	D	0.00
88	2	3	7	2.5	32		99.9	-	4.4	29		99.9	-	5.0	48		99.9	-	30.5	25.6	-0.2	E	-2.2	D	0.00
88	2	3	8	1.5	58		99.9	-	3.7	79		99.9	-	7.7	75		99.9	-	30.4	25.9	-0.3	E	-2.3	D	0.00
88	2	3	9	2.0	54		99.9	-	4.2	75		99.9	-	7.4	86		99.9	-	31.0	26.3	-0.5	D	-2.6	D	0.00
88	2	3	10	2.5	60		99.9	-	3.8	64		99.9	-	4.5	85		99.9	-	31.9	27.3	-0.4	D	-2.4	D	0.02
88	2	3	11	3.1	73		99.9	-	4.7	91		99.9	-	5.2	110		99.9	-	34.1	28.1	-1.3	A	-3.4	D	0.05
88	2	3	12	3.1	63		99.9	-	4.1	81		99.9	-	4.0	108		99.9	-	37.5	29.6	-3.2	A	-2.9	D	0.01
88	2	3	13	2.3	139		99.9	-	3.8	129		99.9	-	4.5	120		99.9	-	38.3	30.9	-2.9	A	-3.8	D	0.00
88	2	3	14	2.1	222		99.9	-	2.2	115		99.9	-	2.2	75		99.9	-	38.3	31.4	-2.1	A	-3.0	D	0.00
88	2	3	15	1.8	53		99.9	-	3.6	55		99.9	-	3.3	72		99.9	-	37.3	31.9	-1.2	A	-2.7	D	0.00
88	2	3	16	1.3	49		99.9	-	3.3	64		99.9	-	4.8	70		99.9	-	36.5	32.9	-0.4	D	-2.3	D	0.01
88	2	3	17	1.5	82		99.9	-	5.2	75		99.9	-	9.6	79		99.9	-	35.5	34.3	-0.2	E	-1.9	D	0.02
88	2	3	18	2.1	62		99.9	-	4.1	66		99.9	-	6.6	82		99.9	-	34.4	33.6	0.1	E	-1.5	D	0.01
88	2	3	19	2.1	31		99.9	-	3.6	54		99.9	-	6.1	91		99.9	-	34.2	33.7	0.0	E	-1.4	D	0.02
88	2	3	20	2.1	5		99.9	-	3.1	44		99.9	-	5.4	107		99.9	-	34.5	34.4	0.0	E	-1.4	D	0.01
88	2	16	17	4.9	215		99.9	-	7.4	216		99.9	-	9.9	216		99.9	-	32.4	17.7	-0.4	D	-2.5	D	0.00
88	2	16	18	5.7	211		99.9	-	8.2	212		99.9	-	12.0	208		99.9	-	32.2	18.5	-0.5	D	-2.2	D	0.00
88	2	16	19	2.8	198		99.9	-	4.3	196		99.9	-	7.3	214		99.9	-	30.8	19.2	-0.2	E	-1.6	D	0.00
88	2	16	20	2.8	208		99.9	-	4.3	214		99.9	-	7.0	218		99.9	-	31.1	19.8	-0.3	E	-1.9	D	0.00
88	2	16	21	4.2	200		99.9	-	7.3	187		99.9	-	10.9	199		99.9	-	31.4	19.8	-0.4	D	-2.0	D	0.00
88	2	16	22	2.9	204		99.9	-	5.4	187		99.9	-	10.6	197		99.9	-	30.8	20.2	-0.3	E	-1.8	D	0.00
88	2	16	23	2.7	173		99.9	-	5.0	189		99.9	-	11.0	205		99.9	-	30.5	20.6	-0.2	E	-1.6	D	0.00
88	2	16	24	2.8	190		99.9	-	4.4	201		99.9	-	11.1	199		99.9	-	31.0	21.0	-0.3	E	-1.8	D	0.00
88	2	17	1	3.5	236		99.9	-	4.6	232		99.9	-	8.5	217		99.9	-	32.0	21.5	-0.4	D	-2.1	D	0.00

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				35 FT			150 FT			500 FT							
YR	MO	DV	HR	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	SC	DELTA T 500-35 (F)	SC	RAIN FALL (IN)
88	2	17	2	2.9	205		99.9	-	4.3	216		99.9	-	7.9	222	99.9	-	32.4	21.6	-0.3	E	-1.8	D	0.00
88	2	17	3	1.4	136		99.9	-	2.5	253		99.9	-	5.3	224	99.9	-	32.9	22.1	-0.3	E	-1.8	D	0.00
88	2	17	4	1.7	125		99.9	-	2.5	155		99.9	-	6.4	220	99.9	-	32.2	21.8	-0.3	E	-1.5	D	0.00
88	2	17	5	1.8	107		99.9	-	2.9	159		99.9	-	5.3	216	99.9	-	31.7	21.9	0.0	E	-1.3	D	0.00
88	2	17	6	2.3	130		99.9	-	2.8	169		99.9	-	4.8	233	99.9	-	30.7	21.9	0.4	E	-0.3	E	0.00
88	2	17	7	1.7	133		99.9	-	2.3	167		99.9	-	5.7	229	99.9	-	29.1	22.1	1.8	F	0.9	E	0.00
88	2	17	8	1.4	174		99.9	-	2.6	209		99.9	-	10.1	231	99.9	-	30.4	22.9	1.1	F	0.3	E	0.00
88	2	17	9	4.2	270		99.9	-	5.5	244		99.9	-	8.0	217	99.9	-	34.8	22.8	-0.1	E	-2.0	D	0.00
88	2	17	10	5.2	333		99.9	-	7.6	67		99.9	-	11.7	81	99.9	-	37.0	22.4	0.0	E	-0.7	E	0.00
88	2	17	11	5.4	263		99.9	-	6.3	253		99.9	-	8.4	235	99.9	-	40.2	23.9	-0.2	E	-2.6	D	0.00
88	2	17	12	6.9	258		99.9	-	9.0	249		99.9	-	10.8	237	99.9	-	43.1	25.3	-0.4	D	-2.9	D	0.00
88	2	17	13	4.8	239		99.9	-	7.1	239		99.9	-	8.5	215	99.9	-	46.3	27.0	-0.3	E	-2.8	D	0.00
88	2	17	14	9.3	254		99.9	-	12.8	247		99.9	-	16.0	236	99.9	-	47.9	27.2	-0.4	D	-2.4	D	0.00
88	2	17	15	7.7	251		99.9	-	10.8	254		99.9	-	14.8	246	99.9	-	49.5	28.4	-0.3	E	-2.7	D	0.00
88	2	17	16	7.4	257		99.9	-	11.2	259		99.9	-	13.2	252	99.9	-	49.7	28.3	-0.3	E	-2.4	D	0.00
88	2	17	17	4.4	282		99.9	-	8.6	279		99.9	-	12.0	279	99.9	-	49.3	28.4	-0.1	E	-1.9	D	0.00
88	2	17	18	2.3	307		99.9	-	7.0	301		99.9	-	10.6	304	99.9	-	46.3	30.2	0.4	E	-0.8	E	0.00
88	2	17	19	1.5	156		99.9	-	2.1	258		99.9	-	7.0	299	99.9	-	39.4	30.4	4.8	G	4.5	F	0.00
88	2	17	20	0.8	262		99.9	-	2.2	300		99.9	-	7.5	325	99.9	-	36.8	30.3	5.1	G	5.6	F	0.00
88	2	17	21	1.7	214		99.9	-	2.8	282		99.9	-	6.3	324	99.9	-	35.1	30.4	5.1	G	5.2	F	0.00
88	2	17	22	0.8	318		99.9	-	4.3	6		99.9	-	8.7	8	99.9	-	35.9	29.4	2.4	F	1.0	E	0.00
88	2	17	23	0.9	320		99.9	-	2.7	336		99.9	-	8.7	10	99.9	-	32.5	29.1	3.5	G	2.9	E	0.00
88	2	17	24	1.4	300		99.9	-	3.1	314		99.9	-	8.6	10	99.9	-	32.1	29.3	3.3	G	2.4	E	0.00
88	2	18	1	1.3	216		99.9	-	2.2	248		99.9	-	8.2	14	99.9	-	31.5	29.3	2.1	F	2.3	E	0.00
88	2	18	2	1.0	280		99.9	-	2.3	253		99.9	-	5.5	31	99.9	-	31.1	28.2	0.9	E	2.3	E	0.00
88	2	19	3	2.7	89		99.9	-	4.1	31		99.9	-	6.5	87	99.9	-	29.3	21.9	3.2	G	5.5	F	0.00
88	2	19	4	2.1	97		99.9	-	5.7	26		99.9	-	7.8	100	99.9	-	30.9	23.8	3.0	G	4.9	F	0.00
88	2	19	5	2.6	94		99.9	-	4.3	33		99.9	-	6.0	110	99.9	-	32.7	23.9	3.0	G	3.3	E	0.00
88	2	19	6	2.8	48		99.9	-	6.7	41		99.9	-	11.7	119	99.9	-	33.9	26.7	1.9	F	2.5	E	0.00
88	2	19	7	3.3	9		99.9	-	6.4	59		99.9	-	14.3	126	99.9	-	35.8	29.6	1.6	F	1.8	E	0.00
88	2	19	8	3.2	69		99.9	-	7.3	105		99.9	-	20.0	126	99.9	-	39.5	32.2	0.0	E	-0.8	E	0.00
88	2	19	9	2.6	60		99.9	-	6.5	112		99.9	-	17.4	129	99.9	-	40.8	33.8	-0.1	E	-1.4	D	0.00
88	2	19	10	2.9	84		99.9	-	5.9	102		99.9	-	13.7	122	99.9	-	43.3	34.2	-0.4	D	-2.3	D	0.00
88	2	19	11	3.7	99		99.9	-	7.8	100		99.9	-	14.2	117	99.9	-	43.9	34.0	-0.4	D	-2.1	D	0.01
88	2	19	12	6.3	108		99.9	-	11.1	110		99.9	-	17.8	122	99.9	-	43.6	34.1	-0.5	D	-2.7	D	0.00
88	2	20	2	9.8	248		99.9	-	15.3	258		99.9	-	19.4	253	99.9	-	43.0	36.6	-0.3	E	-2.1	D	0.00
88	2	20	3	9.5	257		99.9	-	16.2	267		99.9	-	21.7	265	99.9	-	41.7	34.1	-0.3	E	-2.0	D	0.00
88	2	20	4	8.9	267		99.9	-	15.7	275		99.9	-	20.3	277	99.9	-	39.6	32.7	-0.3	E	-2.2	D	0.00
88	2	20	5	6.5	272		99.9	-	12.2	276		99.9	-	16.9	276	99.9	-	38.0	31.0	-0.4	D	-2.2	D	0.00
88	2	20	6	6.3	259		99.9	-	10.1	263		99.9	-	13.1	250	99.9	-	37.5	31.3	-0.4	D	-2.2	D	0.00
88	2	20	7	6.7	254		99.9	-	11.5	262		99.9	-	13.7	253	99.9	-	36.9	29.2	-0.4	D	-2.2	D	0.00
88	2	20	8	8.1	249		99.9	-	10.4	253		99.9	-	13.6	240	99.9	-	36.2	25.9	-0.5	D	-2.2	D	0.00
88	2	20	9	8.6	236		99.9	-	11.0	232		99.9	-	16.4	229	99.9	-	37.1	27.0	-0.4	D	-2.5	D	0.00
88	2	20	19	13.9	263		99.9	-	22.8	268		99.9	-	31.3	270	99.9	-	34.1	22.0	-0.5	D	-2.3	D	0.00
88	2	20	20	8.9	281		99.9	-	16.2	286		99.9	-	24.4	290	99.9	-	29.9	22.4	-0.4	D	-2.2	D	0.00
88	2	20	21	10.2	267		99.9	-	19.2	276		99.9	-	25.0	283	99.9	-	28.7	13.8	-0.4	D	-2.3	D	0.00
88	2	20	22	8.3	296		99.9	-	14.8	291		99.9	-	21.2	292	99.9	-	27.3	13.0	-0.5	D	-2.4	D	0.00
88	2	20	23	9.7	268		99.9	-	17.0	279		99.9	-	21.9	283	99.9	-	24.7	11.2	-0.6	D	-2.6	D	0.00

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				--------35 FT-------			--------150 FT-------			---	----500 FT--------							
YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	SC	DELTA T 500-35 (F)	SC	RAIN FALL (IN)
88	2	20	24	8.4	289		99.9	-	15.3	287		99.9	-	20.8	291		99.9	-	22.8	8.7	-0.6	D	-2.6	D	0.00
88	2	21	1	10.2	314		99.9	-	17.6	300		99.9	-	23.1	298		99.9	-	19.2	7.6	-0.6	D	-2.8	D	0.00
88	2	21	2	8.6	296		99.9	-	16.7	292		99.9	-	22.4	296		99.9	-	16.9	0.3	-0.7	D	-2.8	D	0.00
88	2	21	3	9.6	284		99.9	-	16.5	280		99.9	-	20.8	287		99.9	-	15.4	0.9	-0.8	D	-3.0	D	0.00
88	2	21	4	8.0	288		99.9	-	14.3	287		99.9	-	20.5	292		99.9	-	13.4	-0.1	-0.7	D	-2.9	D	0.00
88	2	21	5	6.1	309		99.9	-	10.3	295		99.9	-	15.1	294		99.9	-	11.8	-0.7	-0.6	D	-2.7	D	0.00
88	2	21	6	6.8	265		99.9	-	10.6	273		99.9	-	14.3	284		99.9	-	11.0	-2.0	-0.7	D	-2.7	D	0.00
88	2	21	7	5.5	262		99.9	-	8.8	272		99.9	-	11.6	282		99.9	-	10.5	-1.3	-0.7	D	-2.7	D	0.00
88	2	21	8	6.4	289		99.9	-	10.6	286		99.9	-	13.3	284		99.9	-	10.5	0.4	-0.8	D	-2.9	D	0.00
88	2	22	1	3.7	211		99.9	-	5.9	231		99.9	-	8.9	223		99.9	-	23.6	3.8	-0.2	E	-1.6	D	0.00
88	2	22	2	4.6	219		99.9	-	6.1	224		99.9	-	11.1	221		99.9	-	24.1	4.4	-0.3	E	-1.4	D	0.00
88	2	22	3	5.8	201		99.9	-	8.5	206		99.9	-	12.4	212		99.9	-	24.4	4.3	-0.2	E	-1.5	D	0.00
88	2	22	4	6.3	186		99.9	-	11.1	189		99.9	-	19.8	196		99.9	-	24.6	4.7	-0.3	E	-1.5	D	0.00
88	2	22	5	6.3	193		99.9	-	9.1	191		99.9	-	18.9	196		99.9	-	26.1	5.2	-0.4	D	-1.5	D	0.00
88	2	22	6	5.9	181		99.9	-	10.7	186		99.9	-	19.7	194		99.9	-	27.9	6.8	-0.2	E	-1.4	D	0.00
88	2	22	7	8.3	186		99.9	-	13.8	186		99.9	-	23.2	188		99.9	-	30.3	7.6	-0.3	E	-1.7	D	0.00
88	2	22	8	7.3	194		99.9	-	11.7	194		99.9	-	22.0	194		99.9	-	32.4	8.8	-0.3	E	-1.8	D	0.00
88	2	22	9	8.4	197		99.9	-	12.5	195		99.9	-	21.9	196		99.9	-	35.8	11.0	-0.4	D	-1.9	D	0.00
88	2	22	10	10.2	199		99.9	-	14.9	197		99.9	-	21.7	202		99.9	-	40.5	15.2	-0.4	D	-2.3	D	0.00
88	2	22	11	9.3	212		99.9	-	12.9	208		99.9	-	18.1	205		99.9	-	44.1	20.8	-0.3	E	-2.2	D	0.00
88	2	22	12	11.0	206		99.9	-	15.9	202		99.9	-	23.7	198		99.9	-	47.9	23.8	-0.5	D	-2.9	D	0.00
88	2	22	13	14.3	213		99.9	-	19.3	207		99.9	-	26.9	208		99.9	-	51.7	17.3	-0.3	E	-2.3	D	0.00
88	2	22	14	14.0	214		99.9	-	18.4	211		99.9	-	25.9	208		99.9	-	55.2	21.5	-0.3	E	-2.2	D	0.00
88	2	22	15	14.4	215		99.9	-	18.8	209		99.9	-	24.5	208		99.9	-	57.2	22.7	-0.2	E	-2.0	D	0.00
88	2	22	16	13.1	208		99.9	-	17.9	205		99.9	-	25.4	204		99.9	-	58.6	28.2	-0.2	E	-2.1	D	0.00
88	2	22	17	12.9	212		99.9	-	18.0	210		99.9	-	26.7	210		99.9	-	59.2	26.8	0.0	E	-1.6	D	0.00
88	2	23	10	6.9	254		99.9	-	10.9	261		99.9	-	14.2	260		99.9	-	36.6	32.6	-0.5	D	-3.2	D	0.00
88	2	23	11	7.2	250		99.9	-	10.6	262		99.9	-	14.2	260		99.9	-	37.0	31.7	-0.5	D	-3.5	D	0.00
88	2	23	12	7.7	252		99.9	-	11.4	257		99.9	-	14.8	256		99.9	-	37.6	30.8	-0.5	D	-3.3	D	0.00
88	2	23	13	7.4	241		99.9	-	9.9	247		99.9	-	12.9	251		99.9	-	38.1	30.0	-0.6	D	-3.4	D	0.00
88	2	23	14	8.2	253		99.9	-	12.5	259		99.9	-	16.0	263		99.9	-	38.6	27.7	-0.5	D	-2.6	D	0.00
88	2	23	15	7.8	258		99.9	-	12.5	261		99.9	-	13.8	253		99.9	-	39.3	25.4	-0.5	D	-2.6	D	0.00
88	2	23	16	6.3	292		99.9	-	13.7	290		99.9	-	18.8	282		99.9	-	36.1	31.1	-0.8	D	-2.6	D	0.00
88	2	23	17	10.6	[illegible]		99.9	-	16.7	264		99.9	-	22.0	264		99.9	-	37.6	25.4	-0.5	D	-2.3	D	0.00
88	2	23	18	6.5	[illegible]		99.9	-	12.2	266		99.9	-	17.2	265		99.9	-	34.0	30.5	-0.5	D	-1.8	D	0.00
88	2	23	19	7.2	275		99.9	-	13.1	281		99.9	-	17.4	281		99.9	-	33.6	27.8	-0.6	D	-2.1	D	0.00
88	2	23	20	6.4	304		99.9	-	12.0	293		99.9	-	18.5	295		99.9	-	33.1	22.8	-0.4	D	-2.2	D	0.00
88	2	24	12	10.1	266		99.9	-	16.6	270		99.9	-	21.1	269		99.9	-	27.9	10.5	-0.8	D	-3.3	D	0.00
88	2	24	13	11.9	255		99.9	-	17.8	259		99.9	-	19.9	256		99.9	-	28.1	10.4	-0.7	D	-2.8	D	0.00
88	2	24	14	9.3	275		99.9	-	15.8	272		99.9	-	18.9	272		99.9	-	29.1	9.6	-0.7	D	-2.8	D	0.00
88	2	24	15	7.3	284		99.9	-	14.5	282		99.9	-	17.6	280		99.9	-	29.6	11.2	-0.7	D	-2.9	D	0.00
88	2	24	16	8.3	281		99.9	-	15.0	282		99.9	-	19.9	279		99.9	-	29.1	14.9	-0.7	D	-2.8	D	0.00
88	2	24	17	8.4	272		99.9	-	13.9	277		99.9	-	19.0	279		99.9	-	27.6	16.5	-0.6	D	-2.7	D	0.00
88	2	24	18	7.3	255		99.9	-	10.6	263		99.9	-	13.0	273		99.9	-	27.5	14.5	-0.6	D	-2.4	D	0.00
88	2	24	19	5.1	274		99.9	-	7.8	269		99.9	-	11.0	269		99.9	-	26.7	14.8	-0.6	D	-2.4	D	0.00
88	2	24	20	7.2	257		99.9	-	10.3	265		99.9	-	13.8	261		99.9	-	27.1	12.0	-0.5	D	-2.4	D	0.00
88	2	24	21	8.1	253		99.9	-	11.6	263		99.9	-	15.7	267		99.9	-	26.4	12.9	-0.5	D	-2.4	D	0.00
88	2	24	22	7.8	251		99.9	-	11.0	257		99.9	-	14.6	256		99.9	-	26.0	12.9	-0.5	D	-2.3	D	0.00

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				35 FT				150 FT				500 FT									
YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	SC	DELTA T 500-35 (F)	SC	RAIN FALL (IN)
88	2	26	5	7.7	222		99.9	-	9.9	226		99.9	-	14.6	240		99.9	-	21.4	10.5	-0.5	D	-2.0	D	0.00
88	2	26	6	6.6	221		99.9	-	8.8	225		99.9	-	15.1	237		99.9	-	21.0	9.7	-0.4	D	-1.7	D	0.00
88	2	26	7	4.3	220		99.9	-	5.6	210		99.9	-	9.3	223		99.9	-	20.1	10.3	-0.5	D	-2.3	D	0.00
88	2	26	8	6.3	228		99.9	-	8.0	221		99.9	-	13.1	222		99.9	-	20.4	10.4	-0.6	D	-2.5	D	0.00
88	2	26	9	7.1	237		99.9	-	9.1	234		99.9	-	12.3	226		99.9	-	22.2	9.7	-0.6	D	-2.9	D	0.00
88	2	26	10	9.2	227		99.9	-	12.3	221		99.9	-	14.9	221		99.9	-	24.6	9.4	-0.7	D	-3.1	D	0.00
88	2	26	11	8.6	245		99.9	-	11.2	242		99.9	-	13.9	224		99.9	-	26.0	9.8	-0.5	D	-2.7	D	0.00
88	2	26	12	9.2	231		99.9	-	10.9	231		99.9	-	14.8	221		99.9	-	28.3	10.0	-0.5	D	-3.0	D	0.00
88	2	26	13	8.9	219		99.9	-	12.1	215		99.9	-	14.4	207		99.9	-	30.6	10.4	-0.6	D	-2.8	D	0.00
88	2	26	14	12.7	206		99.9	-	17.2	203		99.9	-	20.3	207		99.9	-	33.2	9.1	-0.6	D	-2.5	D	0.00
88	2	26	15	10.2	205		99.9	-	15.0	205		99.9	-	18.0	208		99.9	-	36.0	9.8	-0.4	D	-2.3	D	0.00
88	2	26	16	8.2	210		99.9	-	12.3	209		99.9	-	15.2	212		99.9	-	38.1	11.2	-0.5	D	-2.7	D	0.00
88	2	26	17	9.8	218		99.9	-	13.8	219		99.9	-	16.6	213		99.9	-	38.9	10.1	-0.2	E	-2.1	D	0.00
88	2	26	18	4.9	214		99.9	-	6.9	218		99.9	-	9.9	216		99.9	-	38.6	10.6	-0.3	E	-1.8	D	0.00
88	2	26	19	3.4	216		99.9	-	5.3	224		99.9	-	8.2	212		99.9	-	37.8	11.5	-0.1	E	-1.5	D	0.00
88	2	26	20	5.3	236		99.9	-	8.5	244		99.9	-	11.2	222		99.9	-	38.3	12.3	-0.1	E	-1.6	D	0.00
88	2	26	21	5.1	232		99.9	-	7.5	249		99.9	-	13.7	234		99.9	-	38.6	12.0	-0.3	E	-1.5	D	0.00
88	2	28	5	2.0	173		99.9	-	2.9	242		99.9	-	2.8	282		99.9	-	20.6	14.9	0.8	E	0.1	E	0.00
88	2	28	6	1.6	146		99.9	-	2.8	203		99.9	-	2.6	23		99.9	-	18.8	14.1	0.9	E	2.5	E	0.00
88	2	28	7	1.4	125		99.9	-	3.6	189		99.9	-	2.3	292		99.9	-	17.8	13.7	0.6	E	2.0	E	0.00
88	2	28	8	1.3	227		99.9	-	0.9	205		99.9	-	3.7	297		99.9	-	20.4	15.9	0.0	E	-1.5	D	0.00
88	2	28	9	3.2	260		99.9	-	3.2	257		99.9	-	1.3	148		99.9	-	23.3	16.5	0.0	E	-1.8	D	0.00
88	2	28	10	2.9	277		99.9	-	2.6	271		99.9	-	1.9	219		99.9	-	27.2	14.1	0.1	E	-2.3	D	0.00
88	2	28	11	2.9	319		99.9	-	3.4	280		99.9	-	3.1	216		99.9	-	29.5	11.3	0.1	E	-2.5	D	0.00
88	2	28	12	3.7	311		99.9	-	4.1	303		99.9	-	3.2	292		99.9	-	31.9	13.1	0.0	E	-2.8	D	0.00
88	2	28	13	4.6	274		99.9	-	5.8	268		99.9	-	9.1	245		99.9	-	34.3	14.3	-0.5	D	-3.2	D	0.00
88	2	28	14	4.9	284		99.9	-	7.1	269		99.9	-	8.7	247		99.9	-	35.9	14.1	-0.5	D	-2.7	D	0.00
88	2	28	15	6.4	267		99.9	-	9.8	264		99.9	-	12.0	251		99.9	-	37.3	13.2	-0.5	D	-2.9	D	0.00
88	2	28	16	6.5	250		99.9	-	8.8	257		99.9	-	9.9	244		99.9	-	38.9	14.5	-0.4	D	-2.9	D	0.00
88	2	28	17	6.5	256		99.9	-	9.3	254		99.9	-	12.0	240		99.9	-	38.5	14.7	-0.3	E	-2.5	D	0.00
88	2	28	18	3.5	190		99.9	-	6.3	186		99.9	-	9.5	196		99.9	-	37.5	16.1	-0.2	E	-1.8	D	0.00
88	2	28	19	1.3	225		99.9	-	7.0	154		99.9	-	16.4	173		99.9	-	34.6	17.8	1.2	F	0.6	E	0.00
88	2	28	20	2.2	197		99.9	-	4.7	213		99.9	-	11.2	181		99.9	-	31.8	18.8	2.3	F	2.4	E	0.00
88	2	28	21	2.9	197		99.9	-	5.8	199		99.9	-	10.4	187		99.9	-	31.6	18.2	2.2	F	2.1	E	0.00
88	2	28	22	3.2	213		99.9	-	6.3	194		99.9	-	9.2	207		99.9	-	31.5	18.4	2.2	F	2.0	E	0.00
88	2	28	23	2.6	185		99.9	-	5.3	208		99.9	-	14.0	227		99.9	-	30.4	17.5	2.9	G	3.7	E	0.00
88	2	28	24	0.7	51		99.9	-	2.1	194		99.9	-	14.6	234		99.9	-	29.3	19.2	1.0	F	4.6	F	0.00
88	2	29	1	1.0	34		99.9	-	1.6	312		99.9	-	17.6	232		99.9	-	29.1	19.2	2.3	F	5.2	F	0.00
88	3	24	13	8.6	265		99.9	-	14.2	264		99.9	-	18.1	251		99.9	-	70.2	44.8	-0.5	D	-2.7	D	0.00
88	3	24	14	9.4	248		99.9	-	14.9	257		99.9	-	18.0	247		99.9	-	71.4	43.4	-0.4	D	-2.4	D	0.00
88	3	24	15	9.0	246		99.9	-	12.5	251		99.9	-	15.8	233		99.9	-	73.3	41.7	-0.3	E	-2.6	D	0.00
88	3	24	16	10.6	236		99.9	-	13.9	231		99.9	-	18.9	223		99.9	-	73.4	40.0	-0.3	E	-2.4	D	0.00
88	3	24	17	10.7	234		99.9	-	14.1	231		99.9	-	17.2	230		99.9	-	73.5	39.8	-0.3	E	-2.1	D	0.00
88	3	24	18	5.7	218		99.9	-	7.8	216		99.9	-	14.1	219		99.9	-	72.5	40.2	-0.1	E	-1.5	D	0.00
88	3	24	19	3.0	179		99.9	-	6.0	194		99.9	-	10.3	214		99.9	-	66.5	41.7	4.0	G	3.5	E	0.00
88	3	24	20	1.8	193		99.9	-	6.8	183		99.9	-	14.1	196		99.9	-	60.5	42.2	8.1	G	8.8	F	0.00
88	3	24	21	2.9	198		99.9	-	7.6	188		99.9	-	14.7	199		99.9	-	62.0	41.8	5.5	G	5.3	F	0.00
88	3	24	22	1.1	112		99.9	-	4.5	161		99.9	-	13.2	183		99.9	-	57.2	43.4	8.2	G	9.2	F	0.00

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				35 FT			150 FT			500 FT							
YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG) SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG) SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG) SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F) SC	DELTA T 500-35 (F) SC	RAIN FALL (IN)
88	3	24	23	1.4	18	99.9 -	1.6	335	99.9 -	14.7	174	99.9 -	53.8	43.5	7.2 G	10.9 G	0.00
88	3	24	24	1.2	180	99.9 -	2.1	21	99.9 -	14.1	168	99.9 -	51.8	42.3	8.0 G	11.6 G	0.00
88	3	25	1	1.2	146	99.9 -	3.4	23	99.9 -	11.4	163	99.9 -	51.1	42.1	6.7 G	11.2 G	0.00
88	3	25	2	2.0	54	99.9 -	3.7	57	99.9 -	16.9	159	99.9 -	51.5	43.4	5.5 G	11.0 G	0.00
88	3	25	3	2.5	22	99.9 -	5.5	165	99.9 -	17.6	167	99.9 -	55.2	42.1	5.3 G	5.7 F	0.00
88	3	25	4	2.5	38	99.9 -	6.6	166	99.9 -	18.1	166	99.9 -	58.6	41.4	1.5 F	1.3 E	0.00
88	3	25	5	2.6	129	99.9 -	8.1	155	99.9 -	20.8	165	99.9 -	59.0	41.9	1.1 F	0.7 E	0.00
88	3	25	6	2.9	208	99.9 -	6.1	159	99.9 -	20.4	163	99.9 -	59.0	42.5	0.1 E	0.0 E	0.00
88	3	25	7	4.6	179	99.9 -	9.9	165	99.9 -	21.8	166	99.9 -	60.4	43.3	0.0 E	-0.7 E	0.00
88	3	25	8	5.1	173	99.9 -	9.9	168	99.9 -	19.0	173	99.9 -	63.7	43.8	-0.3 E	1.8 G	0.00
88	3	25	9	9.4	201	99.9 -	13.7	193	99.9 -	20.8	189	99.9 -	68.2	45.0	-0.4 D	-2.5 D	0.00
88	3	25	10	11.7	209	99.9 -	16.1	201	99.9 -	23.0	200	99.9 -	71.1	45.3	-0.5 D	-2.8 D	0.00
88	3	25	11	12.9	225	99.9 -	16.8	225	99.9 -	20.4	210	99.9 -	72.4	42.8	-0.4 D	-2.6 D	0.00
88	3	25	12	12.5	238	99.9 -	16.8	236	99.9 -	23.1	225	99.9 -	72.5	42.4	-0.3 E	-2.3 D	0.00
88	3	25	13	10.4	229	99.9 -	14.3	227	99.9 -	19.3	216	99.9 -	72.1	999.9	-0.4 D	-2.2 D	0.00
88	3	25	14	11.2	238	99.9 -	15.1	238	99.9 -	18.7	226	99.9 -	71.8	999.9	-0.5 D	-2.1 D	0.01
88	3	25	15	9.0	247	99.9 -	12.2	242	99.9 -	20.3	223	99.9 -	61.2	999.9	-0.7 D	-1.5 D	0.05
88	3	25	16	6.8	187	99.9 -	12.1	189	99.9 -	23.3	193	99.9 -	60.6	999.9	-0.2 E	-1.2 E	0.01
88	3	25	17	8.8	202	99.9 -	13.0	200	99.9 -	26.0	197	99.9 -	51.1	999.9	-0.5 D	-1.3 D	0.02
88	3	25	18	6.0	189	99.9 -	10.0	187	99.9 -	20.0	191	99.9 -	50.7	999.9	-0.2 E	-1.2 E	0.05
88	3	25	19	4.6	293	99.9 -	8.4	288	99.9 -	12.6	290	99.9 -	52.4	999.9	-0.5 D	-2.5 D	0.32
88	3	25	20	2.2	14	99.9 -	5.6	343	99.9 -	6.4	296	99.9 -	51.4	999.9	0.0 E	-1.7 D	0.07
88	3	25	21	2.2	319	99.9 -	2.3	234	99.9 -	3.9	161	99.9 -	50.4	999.9	0.3 E	-1.1 E	0.00
88	3	25	22	3.0	246	99.9 -	4.3	231	99.9 -	12.7	221	99.9 -	50.0	999.9	0.4 E	-0.5 E	0.00
88	3	25	23	2.1	175	99.9 -	2.7	238	99.9 -	6.4	245	99.9 -	49.2	999.9	1.0 F	-0.3 E	0.00
88	3	25	24	1.8	134	99.9 -	4.3	220	99.9 -	15.1	212	99.9 -	42.5	999.9	1.1 F	0.4 E	0.00
88	3	26	1	1.2	122	99.9 -	2.3	54	99.9 -	6.5	178	99.9 -	46.9	999.9	2.0 F	0.4 E	0.00
88	3	26	2	1.3	324	99.9 -	1.6	38	99.9 -	7.9	182	99.9 -	46.6	999.9	1.4 F	0.2 E	0.01
88	3	26	3	4.4	260	99.9 -	8.2	265	99.9 -	11.0	262	99.9 -	48.4	999.9	0.1 E	-1.2 E	0.00
88	3	26	4	3.5	201	99.9 -	5.5	202	99.9 -	9.6	215	99.9 -	48.8	999.9	0.0 E	-1.6 D	0.00
88	3	26	5	3.3	229	99.9 -	6.1	234	99.9 -	12.2	235	99.9 -	48.1	999.9	0.3 E	-0.7 E	0.06
88	3	26	6	3.9	224	99.9 -	7.1	174	99.9 -	16.8	184	99.9 -	47.1	999.9	1.4 F	0.7 E	0.00
88	3	26	7	2.6	160	99.9 -	7.3	159	99.9 -	18.0	172	99.9 -	46.8	999.9	1.6 F	0.8 E	0.01
88	3	26	8	2.2	119	99.9 -	4.8	150	99.9 -	12.0	171	99.9 -	49.5	999.9	-0.4 D	-1.9 D	0.00
88	3	26	9	4.4	187	99.9 -	7.5	181	99.9 -	11.4	183	99.9 -	53.1	48.6	-1.4 A	-3.8 D	0.00
88	3	26	10	8.8	180	99.9 -	12.6	178	99.9 -	17.4	171	99.9 -	53.5	47.9	2.9 G	0.5 E	0.00
88	3	26	11	8.2	176	99.9 -	13.7	177	99.9 -	19.7	176	99.9 -	58.0	45.6	1.4 F	-0.8 E	0.00
88	3	26	12	10.8	183	99.9 -	15.6	182	99.9 -	20.0	178	99.9 -	62.3	40.2	-0.5 D	-2.7 D	0.00
88	3	26	13	11.2	226	99.9 -	13.7	227	99.9 -	17.1	217	99.9 -	64.1	38.1	-0.4 D	-2.3 D	0.00
88	3	26	14	9.1	216	99.9 -	12.8	214	99.9 -	18.5	213	99.9 -	64.1	38.2	-0.4 D	-2.2 D	0.00
88	3	26	15	12.0	220	99.9 -	16.0	222	99.9 -	21.0	213	99.9 -	62.5	35.3	-0.4 D	-2.1 D	0.02
88	3	26	16	8.9	218	99.9 -	11.8	216	99.9 -	22.8	226	99.9 -	49.0	47.5	0.5 E	0.1 E	0.15
88	3	26	17	7.4	239	99.9 -	10.6	236	99.9 -	20.4	228	99.9 -	48.4	45.2	0.3 E	0.8 E	0.03
88	3	26	18	7.1	254	99.9 -	12.3	263	99.9 -	18.0	258	99.9 -	50.3	43.9	0.7 E	-0.4 E	0.00
88	3	26	19	3.7	199	99.9 -	6.3	232	99.9 -	12.4	231	99.9 -	48.5	43.2	1.5 F	1.8 E	0.00
88	3	26	20	7.9	272	99.9 -	15.3	275	99.9 -	21.6	268	99.9 -	46.2	37.8	0.8 E	-0.6 E	0.00
88	3	26	21	7.9	268	99.9 -	14.8	274	99.9 -	20.4	270	99.9 -	47.0	38.6	0.3 E	-2.0 D	0.90
88	3	26	22	7.8	270	99.9 -	14.9	274	99.9 -	19.7	272	99.9 -	46.4	35.6	-0.4 D	-2.2 D	0.01

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1988

				--------35 FT-------			--------150 FT-------			--------500 FT--------								
YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	SC	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	SC	DELTA T 500-35 (F)	SC	RAIN FALL (IN)
88	3	26	23	8.8	267		99.9	-	16.0	271		99.9	-	20.8	273		99.9	-	43.9	30.4	-0.4	D	-2.2	D	0.00
88	3	26	24	7.8	276		99.9	-	15.8	276		99.9	-	21.8	273		99.9	-	41.5	25.9	-0.4	D	-2.2	D	0.00
88	3	27	1	6.7	273		99.9	-	12.6	275		99.9	-	17.6	270		99.9	-	38.9	24.6	-0.5	D	-2.5	D	0.00
88	3	27	2	8.9	320		99.9	-	16.7	301		99.9	-	21.2	294		99.9	-	37.2	24.1	-0.5	D	-2.5	D	0.00
88	3	27	3	8.0	271		99.9	-	14.0	274		99.9	-	17.1	274		99.9	-	36.5	22.5	-0.6	D	-2.5	D	0.00
88	3	27	4	5.4	290		99.9	-	10.7	282		99.9	-	13.4	282		99.9	-	35.9	24.0	-0.6	D	-2.6	D	0.00
88	3	27	5	6.1	272		99.9	-	11.8	276		99.9	-	15.4	267		99.9	-	35.4	25.3	-0.6	D	-2.5	D	0.00
88	3	27	6	6.6	273		99.9	-	12.7	274		99.9	-	17.2	270		99.9	-	34.8	21.1	-0.6	D	-2.6	D	0.00
88	3	27	7	7.0	284		99.9	-	12.4	282		99.9	-	18.2	277		99.9	-	34.4	20.1	-0.6	D	-2.6	D	0.00
88	3	27	8	9.1	274		99.9	-	15.0	278		99.9	-	19.1	271		99.9	-	33.8	22.4	-0.6	D	-2.7	D	0.00
88	3	27	9	7.0	266		99.9	-	11.5	279		99.9	-	14.4	272		99.9	-	33.3	26.6	-0.7	D	-2.9	D	0.00
88	3	27	10	6.1	277		99.9	-	10.2	276		99.9	-	14.7	270		99.9	-	32.7	29.0	-0.6	D	-2.5	D	0.00
88	3	27	11	6.7	270		99.9	-	11.1	270		99.9	-	15.4	269		99.9	-	33.6	28.5	-0.7	D	-2.8	D	0.00
88	3	27	12	9.0	300		99.9	-	16.4	293		99.9	-	20.4	289		99.9	-	33.6	27.4	-0.9	D	-3.1	D	0.00
88	3	27	22	7.7	253		99.9	-	11.7	260		99.9	-	17.5	258		99.9	-	37.4	23.3	-0.4	D	-2.1	D	0.00
88	3	27	23	5.0	263		99.9	-	7.2	250		99.9	-	10.4	253		99.9	-	37.1	23.8	-0.5	D	-2.3	D	0.00
88	3	27	24	3.5	270		99.9	-	5.0	269		99.9	-	6.2	245		99.9	-	36.7	24.7	-0.5	D	-2.3	D	0.00
88	3	28	1	1.4	235		99.9	-	3.6	281		99.9	-	8.6	270		99.9	-	35.9	25.3	-0.2	E	-1.5	D	0.00
88	3	28	2	2.9	187		99.9	-	4.5	220		99.9	-	8.7	270		99.9	-	33.6	25.1	1.0	F	0.9	E	0.00
88	3	28	3	1.6	193		99.9	-	3.6	220		99.9	-	8.1	269		99.9	-	32.0	24.9	0.9	E	1.3	E	0.00
88	3	28	4	2.0	191		99.9	-	3.3	225		99.9	-	7.3	277		99.9	-	30.5	25.0	1.4	F	2.0	E	0.00
88	3	28	5	1.6	205		99.9	-	3.9	202		99.9	-	7.3	288		99.9	-	29.9	25.3	1.3	F	2.0	E	0.00
88	3	28	6	3.2	187		99.9	-	4.0	222		99.9	-	5.5	267		99.9	-	29.5	24.8	1.5	F	1.7	E	0.00
88	3	28	7	3.0	182		99.9	-	3.1	225		99.9	-	4.0	244		99.9	-	30.0	25.4	0.9	E	-0.2	E	0.00
88	3	28	8	1.6	333		99.9	-	1.7	314		99.9	-	2.4	219		99.9	-	33.6	27.4	0.0	E	-1.6	D	0.00
88	3	28	9	2.1	297		99.9	-	1.8	353		99.9	-	1.9	146		99.9	-	37.3	27.4	0.5	E	-1.9	D	0.00
88	3	28	10	3.3	311		99.9	-	4.0	293		99.9	-	4.4	250		99.9	-	41.6	28.3	0.0	E	-2.8	D	0.00
88	3	28	11	4.0	299		99.9	-	4.5	291		99.9	-	4.5	255		99.9	-	44.7	28.1	-0.1	E	-2.8	D	0.00
88	3	28	12	4.2	305		99.9	-	3.9	310		99.9	-	3.2	178		99.9	-	48.3	26.1	0.1	E	-2.1	D	0.00
88	3	28	13	4.7	173		99.9	-	5.8	159		99.9	-	6.3	141		99.9	-	52.2	26.1	-0.7	D	-3.4	D	0.00

Table 1

Beaver Valley Meteorological Data Recovery
Second Quarter 1988

	Continuous Release	Batch Release	Comment
Joint delta T (150ft-35ft) 35-ft wind	99.8%	-	There were no ground batch releases in the second quarter.
Joint delta T (500ft-35ft) 500-ft wind	99.9%	100%	Minor data losses occurred due to computer downtime on the digital system.

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 1988

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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	1	2	2	2	0	0	1	0	1	0	2	2	0	1	3	1	18
3.51- 7.50	35	28	14	9	3	3	5	3	6	2	13	18	20	25	16	21	221
7.51-12.50	2	0	0	0	0	0	0	1	3	0	8	5	3	6	2	1	31
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	38	30	16	11	3	3	6	4	10	2	24	25	23	32	21	23	271

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	2	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	4
3.51- 7.50	4	3	0	0	0	0	2	0	1	1	6	0	6	5	2	9	39
7.51-12.50	0	0	0	0	0	0	0	0	0	0	2	1	2	0	1	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	6	3	1	0	0	0	2	0	1	1	8	1	9	5	3	9	49

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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	0	0	0	1	2	0	0	0	1	0	1	1	1	2	2	0	11
3.51- 7.50	6	5	3	1	1	1	0	0	1	2	7	5	6	8	9	6	61
7.51-12.50	1	0	0	0	0	0	0	1	0	0	2	1	3	1	1	2	12
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	7	5	3	2	3	1	0	1	2	2	10	7	10	11	12	8	84

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	19	24	21	9	6	6	4	1	2	5	12	16	8	22	27	20	202
3.51- 7.50	58	31	4	1	5	2	3	3	11	9	23	18	37	31	59	69	364
7.51-12.50	3	0	0	0	0	1	0	0	1	4	19	27	21	10	6	7	99
12.51-18.50	0	0	0	0	0	0	0	0	0	0	3	3	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	80	55	25	10	11	9	7	4	14	18	57	64	66	63	92	96	672

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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																	5
0.76- 3.50	40	30	36	24	23	18	19	25	26	16	17	13	10	11	30	32	370
3.51- 7.50	24	9	1	1	0	0	3	1	3	8	10	7	9	7	8	9	100
7.51-12.50	0	0	0	1	0	0	0	0	0	4	7	5	1	0	0	0	18
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	64	39	37	26	23	18	22	26	29	28	34	25	20	18	38	41	493

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																	11
0.76- 3.50	3	4	11	11	20	28	38	42	34	10	2	5	1	6	1	1	217
3.51- 7.50	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	6
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	4	11	11	20	28	38	42	37	13	2	5	1	6	1	1	234

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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																	9
0.76- 3.50	1	4	2	11	42	73	141	58	21	8	3	0	1	1	1	0	367
3.51- 7.50	0	1	0	0	0	0	0	0	1	0	0	0	0	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	5	2	11	42	73	141	58	22	8	3	0	1	1	1	0	378

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																	26
0.76- 3.50	66	64	73	58	93	125	203	126	85	39	37	37	22	43	64	54	1189
3.51- 7.50	127	77	22	12	9	6	13	7	26	25	58	48	78	75	94	114	793
7.51-12.50	8	0	0	1	0	1	0	2	4	8	38	39	30	17	10	10	166
12.51-18.50	0	0	0	0	0	0	0	0	0	0	4	3	0	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
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	199	141	95	71	102	132	216	135	115	72	138	127	130	136	168	178	2181

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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: 3.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
12.43	2.25	3.85	30.81	22.60	10.73	17.33

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	38	30	16	11	3	3	6	4	10	2	24	25	23	32	21	23	0
B	6	3	1	0	0	0	2	0	1	1	8	1	9	5	3	9	0
C	7	5	3	2	3	1	0	1	2	2	10	7	10	11	12	8	0
D	80	55	25	10	11	9	7	4	14	18	57	64	66	63	92	96	1
E	64	39	37	26	23	18	22	26	29	28	34	25	20	18	38	41	5
F	3	4	11	11	20	28	38	42	37	13	2	5	1	6	1	1	11
G	1	5	2	11	42	73	141	58	22	8	3	0	1	1	1	0	9
TOTAL	199	141	95	71	102	132	216	135	115	72	138	127	130	136	168	178	26

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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 AT500.00 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	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 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 AT500.00 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	4	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	7
12.51-18.50	6	0	0	1	0	1	2	0	0	0	0	0	0	0	0	2	12
18.51-24.00	1	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	0
TOTAL	11	0	0	3	0	2	2	0	0	1	0	0	0	1	0	2	22

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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 AT500.00 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	1	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	2	2	1	2	1	2	0	0	1	0	1	0	5	0	1	19
7.51-12.50	9	0	4	7	2	3	2	1	0	0	1	3	5	2	3	9	51
12.51-18.50	6	2	2	1	0	1	0	0	0	2	1	3	1	4	1	1	25
18.51-24.00	0	0	0	0	0	0	0	0	1	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	16	4	8	9	4	5	5	1	1	3	2	7	6	11	4	11	97

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 AT500.00 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	7	1	3	4	4	1	0	1	9	5	2	2	3	4	3	4	44
3.51- 7.50	30	15	16	12	14	7	1	5	3	5	4	5	21	33	24	16	211
7.51-12.50	77	36	25	16	12	6	8	3	8	12	26	23	36	56	44	81	469
12.51-18.50	44	16	6	5	4	1	2	4	12	6	28	22	41	49	24	40	304
18.51-24.00	0	2	0	1	0	0	1	1	1	1	22	8	25	17	1	0	80
>24.00	0	0	0	0	0	1	0	0	0	0	5	1	2	5	0	0	14
TOTAL	158	70	50	38	34	16	12	14	24	29	87	61	128	164	96	141	1122

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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 AT500.00 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	5	6	4	9	6	7	3	4	4	5	4	10	2	7	5	5	86
3.51- 7.50	7	12	7	12	7	5	5	3	4	2	10	9	22	17	12	7	141
7.51-12.50	15	6	14	2	5	3	6	2	8	9	9	9	19	19	5	15	146
12.51-18.50	14	9	5	4	0	0	2	6	9	6	8	2	4	3	1	4	77
18.51-24.00	0	0	0	0	0	0	0	2	3	0	10	0	2	0	0	0	17
>24.00	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	3
TOTAL	41	33	30	27	18	15	17	17	28	22	42	31	49	46	23	31	474

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 AT500.00 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	6	10	11	8	3	3	5	3	7	9	8	14	2	3	4	99
3.51- 7.50	11	9	7	3	7	3	4	5	7	5	10	34	32	23	9	6	175
7.51-12.50	6	2	6	11	5	0	0	3	3	3	7	14	14	3	2	2	81
12.51-18.50	0	0	0	0	0	0	2	4	2	1	8	0	7	4	1	0	29
18.51-24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	20	17	23	25	20	6	9	17	15	16	37	56	67	33	15	12	388

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/89

*** SECOND QUARTER 1988 ***

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 AT500.00 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	3	2	3	2	0	1	0	6	3	3	1	1	1	0	27
3.51- 7.50	0	2	1	0	3	2	2	2	4	2	2	4	2	1	1	1	29
7.51-12.50	0	0	0	0	0	0	2	6	3	2	2	1	0	0	0	0	16
12.51-18.50	0	0	0	0	0	0	0	0	1	2	2	0	0	0	0	0	5
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	1	2	4	2	6	4	4	9	8	13	9	8	3	2	2	1	78

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 AT500.00 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	16	13	20	26	21	13	7	11	7	23	18	23	20	14	12	13	257
3.51- 7.50	49	40	33	28	33	19	14	15	18	16	26	53	77	79	46	31	577
7.51-12.50	111	44	49	38	24	12	18	15	22	26	45	50	74	81	54	107	770
12.51-18.50	70	27	13	11	4	3	8	14	24	17	47	27	53	60	27	47	452
18.51-24.00	1	2	0	1	0	0	1	3	5	2	35	8	27	18	1	0	104
>24.00	0	0	0	0	0	1	1	0	0	0	6	2	2	5	0	0	17
TOTAL	247	126	115	104	82	48	49	58	76	84	177	163	253	257	140	198	2181

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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: 2181

TOTAL NUMBER OF MISSING OBSERVATIONS: 3

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 %

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	1.01	4.45	51.44	21.73	17.79	3.58

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	11	0	0	3	0	2	2	0	0	1	0	0	0	1	0	2	0
C	16	4	8	9	4	5	5	1	1	3	2	7	6	11	4	11	0
D	158	70	50	38	34	16	12	14	24	29	87	61	128	164	96	141	0
E	41	33	30	27	18	15	17	17	28	22	42	31	48	46	23	31	4
F	20	17	23	25	20	6	9	17	15	16	37	56	67	33	15	12	0
G	1	2	4	2	6	4	4	9	8	13	9	8	3	2	2	1	0
TOTAL	247	126	115	104	82	48	49	58	76	84	177	163	253	257	140	198	4

Beaver Valley
Joint Frequency Distribution Tables
for
Batch Releases

Second Quarter 1988

There were no ground level
batch releases in the second quarter

PROGRAM: JFD VERSION: SP

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: OLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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 AT500.00 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	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 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 AT500.00 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	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	1	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	0
TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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 AT500.00 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	0	0	0	0	0	0
12.51-18.50	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
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	0	0	0	0	0	0	0	0	0	0	0	1	3

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 AT500.00 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	1	1	0	1	0	0	0	0	3
7.51-12.50	1	0	0	0	0	0	0	0	1	1	1	4	1	0	0	0	9
12.51-18.50	2	1	0	0	0	0	0	0	1	0	2	2	3	0	0	1	12
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	0	0	0	0	0	0	3	2	3	7	4	0	0	1	24

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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 AT500.00 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	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	3
3.51- 7.50	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	4
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	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	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	1	1	0	0	0	0	0	0	0	1	3	1	0	0	2	2	11

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 AT590.00 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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	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	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	4

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

*** SECOND QUARTER 1988 ***

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 AT500.00 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	1	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	1	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
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3

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 AT500.00 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	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	4
3.51- 7.50	3	0	0	0	1	0	0	0	1	1	1	1	0	0	2	1	11
7.51-12.50	1	0	0	0	0	0	1	0	1	1	1	4	1	0	0	2	12
12.51-18.50	4	1	0	0	0	0	0	0	1	0	3	2	3	0	0	2	16
18.51-24.00	1	0	0	0	0	0	0	0	0	0	2	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	9	2	0	0	1	1	1	0	3	3	7	8	4	0	2	5	46

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 4/ 1/88 - 6/30/88

** SECOND QUARTER 1988 ***

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: 46

TOTAL NUMBER OF VALID OBSERVATIONS: 46

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	2.17	6.52	52.17	23.91	8.70	6.52

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
D	3	1	0	0	0	0	0	0	3	2	3	7	4	0	0	1	0
E	1	1	0	0	0	0	0	0	0	1	3	1	0	0	2	2	0
F	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
G	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0

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

(NONE)

Second Quarter 1988

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

Second Quarter 1988

PROGRAM: LIST VERSION: 2P

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1988

				--------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) SC	DELTA T 500-35 (F) SC	RAIN FALL (IN)
88	5	15	5	0.7	141	99.9 -	1.9	28	99.9 -	2.9	113	99.9 -	41.2	41.2	2.8 G	10.6 G	0.00
88	5	15	6	1.7	84	99.9 -	3.2	34	99.9 -	4.3	101	99.9 -	43.8	40.8	2.5 F	10.4 G	0.00
88	5	15	7	2.5	242	99.9 -	2.9	213	99.9 -	10.9	145	99.9 -	42.6	42.3	1.3 F	11.2 G	0.00
88	5	15	8	1.8	47	99.9 -	1.6	72	99.9 -	3.3	207	99.9 -	49.2	44.0	0.0 E	2.9 E	0.00
88	5	15	9	1.6	284	99.9 -	1.0	120	99.9 -	1.8	12	99.9 -	54.6	45.4	-0.4 D	2.2 E	0.00
88	5	15	10	2.6	340	99.9 -	2.1	40	99.9 -	3.0	248	99.9 -	62.4	47.8	0.2 E	2.1 E	0.00
88	5	15	11	3.8	279	99.9 -	5.4	269	99.9 -	6.0	248	99.9 -	71.5	55.3	-0.7 D	-2.7 D	0.00
88	5	15	12	4.6	232	99.9 -	5.4	220	99.9 -	6.3	202	99.9 -	74.7	55.3	-0.7 D	-3.1 D	0.00
88	5	15	13	3.2	222	99.9 -	4.3	229	99.9 -	6.7	187	99.9 -	78.9	51.2	-1.0 C	-3.4 D	0.00
88	5	15	14	7.3	226	99.9 -	8.5	250	99.9 -	9.5	247	99.9 -	81.0	50.6	-1.4 A	-3.6 D	0.00
88	5	15	15	5.1	230	99.9 -	6.6	226	99.9 -	8.3	214	99.9 -	82.5	50.6	-1.3 A	-3.7 D	0.00
88	5	15	16	5.3	241	99.9 -	7.3	250	99.9 -	9.9	237	99.9 -	83.5	50.0	-1.3 A	-3.5 D	0.00
88	5	15	17	5.3	179	99.9 -	7.9	184	99.9 -	8.9	177	99.9 -	83.8	51.8	-1.3 A	-3.5 D	0.00
88	5	15	18	7.0	197	99.9 -	8.8	200	99.9 -	10.3	192	99.9 -	83.6	50.7	-0.9 D	-2.9 D	0.00
88	5	15	19	4.0	169	99.9 -	7.3	175	99.9 -	12.6	178	99.9 -	82.8	51.9	-0.6 D	-2.5 D	0.00
88	6	9	14	6.8	1	99.9 -	12.5	16	99.9 -	15.4	5	99.9 -	64.3	37.4	-1.8 A	-4.3 C	0.00
88	6	9	15	6.5	356	99.9 -	11.9	5	99.9 -	15.0	2	99.9 -	64.5	37.8	-1.7 A	-4.1 C	0.00
88	6	9	16	8.1	2	99.9 -	14.5	2	99.9 -	18.8	358	99.9 -	64.3	38.4	-1.9 A	-4.4 B	0.00
88	6	9	17	7.6	345	99.9 -	13.2	354	99.9 -	18.1	348	99.9 -	62.6	37.3	-1.5 A	-3.9 C	0.00
88	6	9	18	8.5	11	99.9 -	16.8	23	99.9 -	18.1	14	99.9 -	61.3	30.8	-1.6 A	-3.8 D	0.00
88	6	9	19	6.6	11	99.9 -	13.0	11	99.9 -	18.2	5	99.9 -	60.1	33.5	-1.2 A	-3.4 D	0.00
88	6	9	20	4.6	352	99.9 -	7.7	4	99.9 -	12.5	3	99.9 -	58.3	35.0	-0.7 D	-2.6 D	0.00
88	6	9	21	3.6	324	99.9 -	6.4	342	99.9 -	12.8	350	99.9 -	55.5	35.9	-0.2 E	-1.6 D	0.00
88	6	9	22	4.3	351	99.9 -	6.1	339	99.9 -	14.0	345	99.9 -	53.3	37.4	-0.3 E	-1.5 D	0.00
88	6	9	23	1.9	336	99.9 -	3.8	317	99.9 -	11.4	344	99.9 -	51.3	38.7	-0.1 E	-1.0 E	0.00
88	6	9	24	1.4	173	99.9 -	3.0	278	99.9 -	8.8	338	99.9 -	48.8	38.5	0.8 E	-0.1 E	0.00
88	6	10	1	3.3	184	99.9 -	4.0	249	99.9 -	6.2	323	99.9 -	46.6	38.8	1.7 F	0.5 E	0.00
88	6	10	2	1.4	116	99.9 -	3.1	274	99.9 -	6.1	308	99.9 -	43.9	39.5	3.5 G	2.7 E	0.00
88	6	10	3	1.4	150	99.9 -	1.8	238	99.9 -	4.2	349	99.9 -	41.8	39.7	3.1 G	3.9 F	0.00
88	6	10	4	1.3	124	99.9 -	2.5	221	99.9 -	5.1	348	99.9 -	40.3	39.3	2.1 F	4.4 F	0.00
88	6	10	5	1.6	144	99.9 -	2.9	240	99.9 -	4.6	357	99.9 -	39.1	38.9	2.5 F	4.7 F	0.00
88	6	10	6	1.9	123	99.9 -	3.6	255	99.9 -	7.2	355	99.9 -	39.0	38.6	2.6 G	3.8 E	0.00
88	6	20	9	1.2	220	99.9 -	1.7	250	99.9 -	7.1	235	99.9 -	67.7	60.9	0.1 E	1.9 E	0.00
88	6	20	10	4.9	252	99.9 -	6.9	258	99.9 -	8.9	238	99.9 -	76.7	61.3	-0.6 D	-2.0 D	0.00
88	6	20	11	4.4	273	99.9 -	6.9	281	99.9 -	10.1	272	99.9 -	81.8	61..	-1.0 C	-3.1 D	0.00
88	6	20	12	7.6	256	99.9 -	12.3	269	99.9 -	15.5	263	99.9 -	84.4	58.9	-1.3 A	-3.4 D	0.00
88	6	20	13	7.4	250	99.9 -	11.6	262	99.9 -	14.6	254	99.9 -	86.3	57.4	-1.4 A	-3.6 D	0.00
88	6	20	14	7.2	264	99.9 -	12.2	274	99.9 -	15.7	267	99.9 -	87.2	57.4	-1.5 A	-3.8 D	0.00
88	6	20	15	6.8	259	99.9 -	11.0	265	99.9 -	14.1	259	99.9 -	88.2	58.4	-1.5 A	-3.8 D	0.00
88	6	20	16	6.8	253	99.9 -	9.2	258	99.9 -	11.4	242	99.9 -	88.7	59.1	-1.2 A	-3.3 D	0.00
88	6	20	17	6.8	240	99.9 -	10.3	251	99.9 -	14.2	241	99.9 -	89.3	59.8	-1.3 A	-3.4 D	0.00
88	6	20	18	9.5	222	99.9 -	12.7	231	99.9 -	16.4	235	99.9 -	89.4	60.2	-1.0 C	-3.1 D	0.00
88	6	20	19	6.2	228	99.9 -	7.9	237	99.9 -	12.9	233	99.9 -	88.7	61.5	-0.7 D	-2.6 D	0.00
88	6	20	20	3.6	188	99.9 -	7.3	203	99.9 -	15.1	225	99.9 -	84.3	64.5	1.2 F	0.9 E	0.00
88	6	20	21	3.9	177	99.9 -	8.5	216	99.9 -	18.9	228	99.9 -	81.5	63.1	2.7 G	3.6 E	0.00
88	6	20	22	2.2	199	99.9 -	6.2	230	99.9 -	20.3	228	99.9 -	78.5	62.9	2.7 G	5.2 F	0.00

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August 26, 1988

United States Nuclear Regulatory Commission
Document Control Desk
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Reference: Beaver Valley Power Station Unit No. 1
Docket No. 50-334, License No. DPR-66

Beaver Valley Power Station Unit No. 2
Docket No. 50-412, License No. NPF-73

Semi-Annual Radioactive Effluent Release Report
for the First Six Months of 1988

Gentlemen:

The Semi-Annual Radioactive Effluent Release Report is hereby submitted in accordance with the requirements of Technical Specifications 6.9.1.12 and 6.9.1.13 for the Beaver Valley Power Station Unit 1 license DPR-66 and Beaver Valley Power Station Unit 2 license NPF-73.

This report contains the information required by USNRC Regulatory Guide 1.21 revision 1 and the Technical Specifications. Note that shared radwaste systems exist for gaseous elevated releases and for liquid releases. The report format is summarized as follows:

1. Supplemental Information Page
2. Table 1A: Gaseous Effluents - Summation Of All Releases
3. Table 1B: Gaseous Effluents - Elevated Releases
4. Table 1C1: Gaseous Effluents - Ground Level Releases Unit 1
5. Table 1C2: Gaseous Effluents - Ground Level Releases Unit 2
6. Table 2A: Liquid Effluents - Summation Of All Releases
7. Table 2B: Liquid Effluents
8. Table 3: Solid Waste and Irradiated Fuel Shipments
9. Table 4: Lower Limits of Detectability
10. Table 5A: Assessment of Radiation Doses Unit 1
11. Table 5B: Assessment of Radiation Doses Unit 2
12. Table 6: Technical Specification Effluent Monitoring Instrumentation Channels Not Returned to Operable Status Within 30 days
13. Table 7: 40 CFR 190 Environmental Doses
14. Table 8: Technical Specification Surveillance Deficienies
15. Joint Frequency Distribution Tables

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1/1

If there are any questions concerning this report, please contact J. W. Wenkhous at (412) 393-5870.

Very truly yours,

J. D. Sieber
Vice President
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Attachment

cc: United States Nuclear Regulatory Commission (2)
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United States Nuclear Regulatory Commission
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