

BEAVER VALLEY - UNITS 1&2

1st Half - 1989

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 Permissible Concentrations

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

- a. Fission and activation gases: \*\*\*\*\*
- b. Iodines: \*
- c. Particulates, half-lives > 8 days: \*\*\*\* 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:	19	38
2. Total time period for batch releases:	15854 minutes	21691 minutes
3. Maximum time period for a batch release:	1126 minutes	1295 minutes
4. Average time period for batch releases:	834 minutes	571 minutes
5. Minimum time period for a batch release:	74 minutes	6 minutes
6. Average river flow during periods of release:	59523 cuft/sec	85667 cuft/sec

  

b. Gaseous	1st Quarter	2nd Quarter
1. Number of batch releases:	18	28
2. Total time period for batch releases:	17133 minutes	28929 minutes
3. Maximum time period for a batch release:	5295 minutes	5285 minutes
4. Average time period for batch releases:	952 minutes	1033 minutes
5. Minimum time period for a batch release:	2 minutes	2 minutes

6. Abnormal Releases

a. Liquid	1st Quarter	2nd Quarter
1. Number of releases:	1	1
2. Total activity released:	1.07E-01 Curies	0.00E+00 Curies

  

b. Gaseous	1st Quarter	2nd Quarter
1. Number of releases:	1	2
2. Total activity released:	1.37E-02 Curies	4.02E-02 Curies



BEAVER VALLEY - UNITS 1&2

TABLE 1B

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

GASBLOC EFFLUENTS - ELEVATED RELEASES

		CONTINUOUS MODE		BATCH MODE	
		1st	2nd	1st	2nd
Nuclides released		Quarter	Quarter	Quarter	Quarter
1. Fission gases					
argon-41	CI	6.10E-01	LLD	LLD	LLD
krypton-85	CI	LLD	LLD	1.27E-01	1.51E-01
krypton-85m	CI	1.61E-02	LLD	LLD	LLD
krypton-87	CI	LLD	LLD	LLD	LLD
krypton-88	CI	LLD	LLD	LLD	LLD
xenon-131m	CI	LLD	LLD	LLD	9.15E-04
xenon-133	CI	8.70E-01	6.99E-01	2.15E-06	1.40E-03
xenon-133m	CI	LLD	LLD	LLD	LLD
xenon-135	CI	3.01E-01	1.48E-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	1.00E+00	1.44E-01	1.27E-01	1.53E-01
2. Iodines					
iodine-131	CI	7.00E-06	1.75E-06	LLD	LLD
iodine-133	CI	2.86E-03	LLD	LLD	LLD
iodine-135	CI	LLD	LLD	LLD	LLD
Total for period	CI	9.88E-06	1.75E-06	0.00E+00	0.00E+00
3. Particulates					
manganese-54	CI	LLD	LLD	LLD	LLD
iron-59	CI	LLD	LLD	LLD	LLD
cobalt-58	CI	LLD	LLD	LLD	1.19E-06
cobalt-60	CI	LLD	3.30E-03	LLD	7.03E-09
zinc-65	CI	LLD	LLD	LLD	LLD
strontium-89	CI	LLD	LLD	LLD	LLD
strontium-90	CI	LLD	LLD	LLD	LLD
molybdenum-99	CI	LLD	LLD	LLD	LLD
cesium-134	CI	LLD	LLD	LLD	LLD
cesium-137	CI	LLD	LLD	LLD	LLD
cerium-141	CI	LLD	LLD	LLD	LLD
cerium-144	CI	LLD	1.18E-07	LLD	LLD
unidentified	CI	NONE	NONE	NONE	NONE
Total for period	CI	0.00E+00	3.42E-06	0.00E+00	1.19E-06

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

BEAVER VALLEY - UNIT 1

TABLE 1C-1

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

Nuclides released	Unit	CONTINUOUS MODE		BATCH MODE	
		1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
1. Fission gases					
krypton-85	Ci	2.58E-01	3.48E-01	NR	1.88E-03
krypton-85m	Ci	LLD	LLD	NR	1.44E-03
krypton-87	Ci	LLD	LLD	NR	LLD
krypton-88	Ci	LLD	LLD	NR	LLD
xenon-131m	Ci	LLD	LLD	NR	9.61E-04
xenon-133	Ci	4.51E+00	1.59E+00	NR	2.68E-02
xenon-133m	Ci	LLD	LLD	NR	6.82E-04
xenon-135	Ci	3.48E-01	6.14E-01	NR	3.37E-03
xenon-135m	Ci	LLD	LLD	NR	2.40E-04
xenon-138	Ci	LLD	LLD	NR	LLD
unidentified	Ci	NONE	NONE	NR	NONE
Total for period	Ci	5.22E+00	2.55E+00	0.00E+00	3.43E-02
2. Iodines					
iodine-131	Ci	7.20E-05	2.06E-05	NR	9.30E-05
iodine-132	Ci	LLD	LLD	NR	8.43E-05
iodine-135	Ci	LLD	LLD	NR	LLD
Total for period	Ci	7.20E-05	2.06E-05	0.00E+00	1.77E-04
3. Particulates					
manganese-54	Ci	LLD	LLD	NR	LLD
iron-59	Ci	LLD	LLD	NR	LLD
cobalt-58	Ci	1.05E-05	5.99E-05	NR	4.41E-05
cobalt-60	Ci	2.23E-05	LLD	NR	2.04E-05
zinc-65	Ci	LLD	LLD	NR	LLD
strontium-88	Ci	LLD	LLD	NR	LLD
strontium-90	Ci	LLD	LLD	NR	LLD
niobium-99	Ci	LLD	LLD	NR	LLD
cesium-134	Ci	LLD	LLD	NR	1.36E-05
cesium-137	Ci	LLD	LLD	NR	2.24E-05
cerium-141	Ci	LLD	LLD	NR	LLD
cerium-144	Ci	LLD	LLD	NR	LLD
unidentified	Ci	NONE	NONE	NR	NONE
Total for period	Ci	3.28E-05	5.53E-05	0.00E+00	1.01E-04

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

NR = No Releases this period

BEAVER VALLEY - UNIT 2

TABLE 1C-2

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

GASROUS EFFLUENTS - GROUND-LEVEL RELEASES

		CONTINUOUS MODE		BATCH MODE	
		1st	2nd	1st	2nd
* Nuclides released	Unit	Quarter	Quarter	Quarter	Quarter
1. Fission gases					
* krypton-85	Ci	3.15E-01	1.54E-01	8.11E-04	LLD
* krypton-85m	Ci	LLD	LLD	6.21E-04	6.32E-06
* krypton-87	Ci	LLD	LLD	LLD	LLD
* krypton-88	Ci	LLD	LLD	LLD	1.78E-05
* xenon-131m	Ci	LLD	LLD	4.14E-05	LLD
* xenon-133	Ci	6.18E-01	LLD	2.04E-01	3.18E-05
* xenon-133m	Ci	LLD	LLD	2.93E-04	LLD
* xenon-135	Ci	LLD	LLD	2.23E-03	4.47E-05
* xenon-135m	Ci	LLD	LLD	1.04E-04	3.90E-05
* xenon-139	Ci	LLD	LLD	LLD	LLD
* unidentified	Ci	NONE	NONE	NONE	NONE
* Total for period	Ci	9.33E-01	1.54E-01	2.08E-01	1.40E-04
2. Iodines					
* iodine-131	Ci	6.20E-06	7.50E-06	1.50E-06	9.92E-09
* iodine-133	Ci	LLD	LLD	LLD	1.51E-07
* iodine-135	Ci	LLD	LLD	LLD	LLD
* Total for period	Ci	6.20E-06	7.50E-06	1.50E-06	1.61E-07
3. Particulates					
* chromium-51	Ci	1.55E-05	1.76E-04	LLD	LLD
* manganese-54	Ci	LLD	4.86E-05	LLD	1.54E-08
* iron-59	Ci	LLD	LLD	LLD	LLD
* cobalt-57	Ci	LLD	8.59E-07	LLD	LLD
* cobalt-58	Ci	4.83E-05	1.04E-03	4.41E-03	2.63E-05
* cobalt-60	Ci	3.48E-05	1.29E-04	4.27E-05	8.41E-09
* zinc-65	Ci	LLD	LLD	LLD	LLD
* strontium-89	Ci	LLD	LLD	LLD	LLD
* strontium-90	Ci	LLD	LLD	LLD	LLD
* niobium-93	Ci	LLD	5.70E-02	LLD	LLD
* molybdenum-99	Ci	LLD	LLD	LLD	LLD
* ruthenium-106	Ci	LLD	LLD	LLD	1.32E-07
* cesium-134	Ci	LLD	LLD	5.88E-08	LLD
* cesium-137	Ci	LLD	LLD	9.65E-08	LLD
* cerium-141	Ci	LLD	LLD	LLD	LLD
* cerium-144	Ci	3.07E-06	LLD	LLD	LLD
* unidentified	Ci	NONE	NONE	NONE	NONE
* Total for period	Ci	1.03E-04	5.64E-02	4.45E-03	2.65E-05

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



## BRAVER VALLEY - UNITS 1&amp;2

TABLE 2B

1st Half - 1989

## SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

## LIQUID EFFLUENTS

Nuclides released	Unit	CONTINUOUS MODE		BATCH MODE	
		1st Quarter	2nd Quarter	1st Quarter	2nd Quarter
1. Fission and activation products					
beryllium-7	Ci	N/A	N/A	LLD	LLD
sodium-24	Ci	N/A	N/A	LLD	LLD
chromium-51	Ci	N/A	N/A	1.39E-01	4.19E-02
manganese-54	Ci	N/A	N/A	1.36E-01	2.71E-03
iron-55	Ci	N/A	N/A	3.29E-01	6.43E-02
iron-59	Ci	N/A	N/A	1.97E-04	3.51E-03
cobalt-57	Ci	N/A	N/A	1.82E-05	3.50E-04
cobalt-58	Ci	N/A	N/A	6.57E-03	9.43E-02
cobalt-60	Ci	N/A	N/A	4.72E-03	1.63E-02
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	2.37E-05	1.81E-03
niobium-97	Ci	N/A	N/A	8.07E-04	3.68E-04
niobium-99	Ci	N/A	N/A	LLD	LLD
technetium-99m	Ci	N/A	N/A	LLD	LLD
ruthenium-103	Ci	N/A	N/A	LLD	LLD
silver-110m	Ci	N/A	N/A	1.19E-03	1.21E-03
antimony-124	Ci	N/A	N/A	1.43E-04	1.01E-03
antimony-125	Ci	N/A	N/A	1.18E-03	4.39E-03
iodine-131	Ci	N/A	N/A	1.60E-05	LLD
iodine-133	Ci	N/A	N/A	6.24E-06	LLD
cesium-134	Ci	N/A	N/A	1.92E-06	1.23E-05
cesium-137	Ci	N/A	N/A	1.22E-04	6.58E-05
barium-lanthanum-140	Ci	N/A	N/A	LLD	2.95E-05
cerium-141	Ci	N/A	N/A	LLD	LLD
cerium-144	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	1.98E-02	2.52E-01
2. Dissolved and entrained gases					
xenon-133	Ci	N/A	N/A	3.47E-04	2.08E-03
xenon-133m	Ci	N/A	N/A	LLD	LLD
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	3.47E-04	2.08E-03

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

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

BEAVER VALLEY - UNITS 1&2

TABLE 3

1st Half - 1989

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 Contain. equipment etc. (2)(3)	Irrad. components Control rods etc.	Estimated Total Error
Container Volume	2.20E+01 cu. meter	7.95E+02 cu. meter	0.00E+00 cu. meter	0.00E+00 % (1)
Total Activity	7.42E+02 Curies	4.83E+00 Curies	0.00E+00 Curies	3.00E+01 %

2. Estimate of Major Nuclide Composition by Type of Waste (percent)

H-3	5.33E-01 %	5.83E-01 %	0.00E+00 %
Be-7	0.00E+00 %	3.55E+00 %	0.00E+00 %
C-14	2.84E-02 %	4.25E-01 %	0.00E+00 %
P-32	1.50E+00 %	3.09E+00 %	0.00E+00 %
Cr-51	3.56E-05 %	4.90E+00 %	0.00E+00 %
Mn-54	1.54E-01 %	1.79E+00 %	0.00E+00 %
Fe-55	1.33E+01 %	3.47E+01 %	0.00E+00 %
Fe-59	1.27E-05 %	6.28E-01 %	0.00E+00 %
Co-57	1.36E-01 %	4.65E-04 %	0.00E+00 %
Co-58	7.46E+01 %	2.63E+01 %	0.00E+00 %
Co-60	6.57E+00 %	1.05E+01 %	0.00E+00 %
Ni-59	7.21E-04 %	0.00E+00 %	0.00E+00 %
Ni-63	3.17E+00 %	2.50E+00 %	0.00E+00 %
Sr-89	1.45E-04 %	2.52E-02 %	0.00E+00 %
Sr-90	3.32E-05 %	3.52E-03 %	0.00E+00 %
Nb-95	2.12E-04 %	4.91E+00 %	0.00E+00 %
Zr-95	1.75E-04 %	1.78E+00 %	0.00E+00 %
Tc-99	3.12E-05 %	9.51E-03 %	0.00E+00 %
Ru-103	0.00E+00 %	0.00E+00 %	0.00E+00 %
Ag-110m	1.81E-03 %	2.91E-01 %	0.00E+00 %
Sn-113	0.00E+00 %	0.00E+00 %	0.00E+00 %
Sb-124	0.00E+00 %	0.00E+00 %	0.00E+00 %
Sb-125	6.19E-03 %	6.95E-01 %	0.00E+00 %
I-129	4.62E-05 %	7.70E-03 %	0.00E+00 %
I-131	5.82E-04 %	9.50E-02 %	0.00E+00 %
Cs-134	1.79E-02 %	9.55E-01 %	0.00E+00 %
Cs-137	3.30E-02 %	1.74E+00 %	0.00E+00 %
Ba-140	8.47E-06 %	5.31E-02 %	0.00E+00 %
Ce-141	0.00E+00 %	0.00E+00 %	0.00E+00 %
Ce-144/Pr-144	0.00E+00 %	5.65E-04 %	0.00E+00 %
Pu-238	7.47E-06 %	1.30E-02 %	0.00E+00 %
Pu-239/240	1.28E-05 %	6.93E-03 %	0.00E+00 %
Pu-241	3.57E-03 %	4.27E-01 %	0.00E+00 %
Am-241	1.67E-06 %	9.35E-03 %	0.00E+00 %
Cm-242	1.03E-05 %	9.94E-04 %	0.00E+00 %
Cm-243/244	4.21E-06 %	8.03E-03 %	0.00E+00 %

3. Number of Shipments

Type	LSA	0	14	0
of	Type A	5	0	0
Container	Type B	0	0	0
Used	Large Quantity	0	0	0
Solidification	Cement	0	0	0
Agent	Urea Formaldehyde	0	0	0
Used	None	5	14	0
Mode of	Truck	5	14	0
Transport	Rail	0	0	0
Destination	Barnwell, SC	5	0	0
	Oak Ridge, TN	0	14	0
Waste	Class A	3	14	0
Class	Class B	2	0	0
per 10 CFR 61	Class C	0	0	0
	> Class C	0	0	0

B. No Irradiated Fuel Shipments

- (1) Since container volumes are provided by the burial site, a calculational error of zero is assumed.
- (2) The DAW shipped to QUADREX via RSR No. B-1080 was not processed by them during the 2nd Half-1988 and is incorporated into this Semi-Annual Radioactive Effluent Release Report.
- (3) 14 shipments of DAW were shipped to QUADREX for volume reduction. Therefore, the volume of DAW listed is the volume shipped. The total volume of DAW buried for this report period was 5.67E+1 cu. meters.



BEAVER VALLEY - UNITS 1&2

TABLE 4

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

LOWER LIMITS OF DETECTABILITY (LLD)

	* uCi/cc	uCi/ml	uCi/cc
	GAS	LIQUID	FILTER PAPER / CHARCOAL
* NUCLEIDE	GRAB SAMPLE	GRAB SAMPLE	CONTINUOUS EFFLUENT SAMPLE
	(1000 cc)	(1000 ml)	(2.85E+6 cc) **
H-3	1.00E-06	1.00E-06	-----
Na-24	3.01E-07	3.01E-08	1.44E-13
Ar-41	2.34E-07	5.09E-08	-----
Cr-51	5.90E-07	3.39E-07	1.05E-12
Mn-54	1.10E-07	4.38E-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
Co-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-06	-----
Kr-85m	9.82E-08	4.10E-08	-----
Kr-87	1.71E-07	7.09E-08	-----
Kr-88	2.89E-07	1.44E-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	1.50E-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	-----	4.23E-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	-----
Cm-134	1.04E-07	5.16E-08	1.41E-13
Cm-137	1.37E-07	5.49E-08	1.63E-13
Ba-139	2.93E-07	1.93E-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	9.59E-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+6 cc. Therefore, grab sample LLD values would reflect a different volume (ie; 10 cubic feet or 2.83E+5 cc).

BEAVER VALLEY - UNIT 1

Table 5A

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

ASSESSMENT OF RADIATION DOSES

UNIT 1		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Year	
LIQUID EFFLUENTS		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
Batch Releases											
O R G A N	BONE DOSE	1.40E-03	0.0280	1.64E-03	0.0328		0.0000	0.0000	3.04E-03	0.0304	
	LIVER DOSE	3.57E-03	0.0714	4.77E-03	0.0954		0.0000	0.0000	8.34E-03	0.0834	
	TOTAL BODY DOSE	2.94E-03	0.1960	4.12E-03	0.2747		0.0000	0.0000	7.06E-03	0.2353	
	THYROID DOSE	1.64E-03	0.0328	1.43E-03	0.0286		0.0000	0.0000	3.07E-03	0.0307	
	KIDNEY DOSE	2.23E-03	0.0446	2.24E-03	0.0448		0.0000	0.0000	4.47E-03	0.0447	
	LUNG DOSE	1.84E-03	0.0368	1.77E-03	0.0354		0.0000	0.0000	3.61E-03	0.0361	
	GI-LLI DOSE	3.92E-03	0.0784	1.17E-01	2.3400		0.0000	0.0000	1.21E-01	1.2092	

UNIT 1		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Year	
GASEOUS EFFLUENTS		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
Batch & Continuous Releases											
(2)	BETA AIR DOSE	4.37E-03	0.0437	2.52E-02	0.2520		0.0000	0.0000	2.96E-02	0.1479	
(2)	GAMMA AIR DOSE	1.48E-03	0.0296	9.97E-03	0.1994		0.0000	0.0000	1.15E-02	0.1145	
O R G A N	BONE DOSE	2.45E-05	0.0003	1.22E-03	0.0163		0.0000	0.0000	1.24E-03	0.0083	
	LIVER DOSE	4.63E-02	0.6173	2.14E-02	0.2853		0.0000	0.0000	6.77E-02	0.4513	
	TOTAL BODY DOSE	4.63E-02	0.6173	2.10E-02	0.2800		0.0000	0.0000	6.73E-02	0.4487	
	THYROID DOSE	5.01E-02	0.6680	2.50E-02	0.3333		0.0000	0.0000	7.51E-02	0.5007	
	KIDNEY DOSE	4.63E-02	0.6173	2.10E-02	0.2800		0.0000	0.0000	6.73E-02	0.4487	
(3)	LUNG DOSE	4.63E-02	0.6173	2.14E-02	0.2853		0.0000	0.0000	6.77E-02	0.4513	
	GI-LLI DOSE	4.63E-02	0.6173	2.10E-02	0.2800		0.0000	0.0000	6.73E-02	0.4487	

(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 batch & 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 3.11.2.3 of the Technical Specifications (considered to be the Design Objectives).

BEAVER VALLEY - UNIT 2

Table 5B

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

ASSESSMENT OF RADIATION DOSES

UNIT 2		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Year	
LIQUID EFFLUENTS		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
Batch Releases											
O R G A N	BONE DOSE	1.40E-03	0.0280	1.64E-03	0.0328		0.0000		0.0000	3.04E-03	0.0304
	LIVER DOSE	3.57E-03	0.0714	4.77E-03	0.0954		0.0000		0.0000	8.34E-03	0.0834
	TOTAL BODY DOSE	2.94E-03	0.1960	4.12E-03	0.2747		0.0000		0.0000	7.06E-03	0.2353
	THYROID DOSE	1.64E-03	0.0328	1.43E-03	0.0286		0.0000		0.0000	3.07E-03	0.0307
	KIDNEY DOSE	2.23E-03	0.0446	2.24E-03	0.0448		0.0000		0.0000	4.47E-03	0.0447
	LUNG DOSE	1.84E-03	0.0368	1.77E-03	0.0354		0.0000		0.0000	3.61E-03	0.0361
	GI-LLI DOSE	3.92E-03	0.0784	1.17E-01	2.3400		0.0000		0.0000	1.21E-01	1.2092

UNIT 2		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Year	
GASEOUS EFFLUENTS		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
Batch & Continuous Releases											
(2)	BETA AIR DOSE	6.94E-02	0.6940	2.13E-02	0.2130		0.0000		0.0000	9.07E-02	0.4535
(2)	GAMMA AIR DOSE	3.02E-03	0.0604	1.06E-03	0.0212		0.0000		0.0000	4.08E-03	0.0408
O R G A N	BONE DOSE	1.31E-03	0.0175	2.09E-03	0.0279		0.0000		0.0000	3.40E-03	0.0227
	LIVER DOSE	4.34E-03	0.0579	1.26E-02	0.1680		0.0000		0.0000	1.69E-02	0.1129
	TOTAL BODY DOSE	4.64E-03	0.0619	1.27E-02	0.1693		0.0000		0.0000	1.73E-02	0.1156
	THYROID DOSE	4.24E-03	0.0565	1.29E-02	0.1720		0.0000		0.0000	1.71E-02	0.1143
	KIDNEY DOSE	4.19E-03	0.0559	1.25E-02	0.1667		0.0000		0.0000	1.57E-02	0.1113
	LUNG DOSE	8.66E-03	0.1157	1.46E-02	0.1947		0.0000		0.0000	2.33E-02	0.1552
(3)	GI-LLI DOSE	5.16E-03	0.0688	1.28E-02	0.1707		0.0000		0.0000	1.80E-02	0.1197

(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 batch & 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 3.11.2.3 of the Technical Specifications (considered to be the Design Objectives).

BRAVER VALLEY - UNITS 1&2

TABLE 6

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

\*\*\*\*\*  
b  
\* TECHNICAL SPECIFICATION EFFLUENT MONITORING INSTRUMENTATION CHANNELS NOT RETURNED TO OPERABLE STATUS WITHIN 30 DAYS \*  
\* \*  
\*\*\*\*\*  
\* (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 velocity probe. The 30 day criteria was exceeded as a result of the lag time in obtaining a \*  
\* replacement probe from the vendor. Maintenance Work Request (MWR) No. 887195 was originally prepared to correct \*  
\* this problem. \*  
\* \*  
\* Further review of this item revealed that the velocity probe should be relocated to another point in the \*  
\* ventilation pathway. Design Change Package (DCP) No. 1266 has been prepared for relocation of the velocity probe \*  
\* This DCP is currently in the final approval process. \*  
\* \*  
\* As required by LCO 3.3.3.10 (Table 3.3-13, Action Statement No. 28) flow rates were estimated every four hours \*  
\* during this report period. \*  
\*\*\*\*\*  
c  
\* (FR-VS 112) - Unit 1 System Effluent Flowrate Measuring Device for the SLCRS Vent Monitor \*  
\* \*  
\* This flow-rate monitor was inoperable from July 7, 1988 through the end of the report period due to equipment \*  
\* failure. The 30 day criteria was exceeded due to determinations that the recorder was unrepairable. DCP 1187 was \*  
\* prepared for replacement of the recorder. Work on this DCP is pending receipt of the replacement recorder from a \*  
\* vendor. \*  
\* \*  
\* As required by LCO 3.3.3.10 (Table 3.3-13, Action Statement No. 28) flow rates were estimated every four hours \*  
\* during this report period. \*  
\*\*\*\*\*

BEAVER VALLEY - UNITS 1&2

TABLE 7

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

40 CFR 190 ENVIRONMENTAL DOSES

Total Dose from all facility releases for the 6-month period  
January 1, 1989 thru June 30, 1989

```

*****
*          *          *          *          *
* ORGAN    * DOSE (mrem) * % OF TECH. SPEC. LIMIT *
*          *          *          *          *
*****
* BONE     * 1.07E-02 * 0.04% *
*          *          *          *          *
* LIVER    * 1.01E-01 * 0.40% *
*          *          *          *          *
* TOTAL BODY * 1.14E-01 * 0.46% *
*          *          *          *          *
* THYROID  * 9.84E-02 * 0.13% *
*          *          *          *          *
* KIDNEY   * 9.29E-02 * 0.37% *
*          *          *          *          *
* LUNG     * 9.82E-02 * 0.39% *
*          *          *          *          *
* GI-ILLI  * 3.27E-01 * 1.31% *
*          *          *          *          *
*****
    
```

The above cumulative dose contributions from liquid and gaseous effluents were determined in accordance with the applicable Technical Specifications and the ODCM.

Technical Specification 3.11.4.1 states: The dose or dose commitment to MEMBER(S) OF THE PUBLIC from all facility releases is limited to < or = 25 mrem to the total body or any organ (except the thyroid, which is limited to < or = 75 mrem) for a calendar year.

Note that an assessment of radiation doses from radioactive effluents to MEMBER(S) OF THE PUBLIC due to their activities inside the site boundary is not applicable.

BEAVER VALLEY - UNITS 1&2

TABLE 8

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

TECHNICAL SPECIFICATION SURVEILLANCE DEFICIENCIES

As specified by Surveillance Requirement 4.11.1.1.1, Radioactive liquid wastes shall be sampled and analyzed according to the sampling and analysis program of Table 4.11-1. Contrary to this, a sample (RWDA-L No. 3237, 2/7/89) was inadvertently discarded prior to performing the monthly composite analyses (H-3 & Gross Alpha) and the quarterly composite analyses (Fe-55, Sr-89 & Sr-90).

There were no safety implications to the health and safety of the general public as a result of the failure to analyze these samples for the composite radionuclides listed above. Since this sample was from the normal Unit 1 discharge tanks, the H-3, Gross Alpha, Fe-55, Sr-89 & Sr-90 analyses are expected to be similar with those of the other samples composited for the applicable month and quarter. It should also be noted that the gamma spectrometry analysis for this sample was similar to those of the other samples (for the applicable month and quarter). This is documented in Incident Report No. 1-89-42.

As specified by Surveillance Requirement 4.11.2.1.2, Radioactive gaseous wastes shall be sampled and analyzed according to the sampling and analysis program of Table 4.11-2. Contrary to this, the following deficiencies were observed during this report period:

1. The normal continuous particulate sample (47 mm filter paper) was not collected and analyzed for the period 1/11/89 (1030 hrs) through 1/13/89 (1300 hrs) on the Unit 2 Decon Building Vent Effluent Monitor (2RMQ-RQ-301). However, it should be noted that the gamma spectrometry analysis performed on the continuous iodine sample did not indicate any particulate or iodine energy peaks.
2. The normal continuous particulate sample (47 mm filter paper) was not collected and analyzed for the period 1/18/89 (1030hrs) through 1/25/89 (1030 hrs) on the Unit 2 SLCRS Vent (Elevated Release) Effluent Monitor (2HVS-RQ-109). However, for this same period, an alternate particulate sample (moving filter paper) was collected. This paper was analyzed for principal gamma emitters and no nuclides were identified. This paper was later analyzed by a contractor laboratory and no composite nuclides were identified. Also, the gamma spectrometry analysis performed on the continuous iodine sample did not indicate any particulate or iodine energy peaks.
3. A continuous particulate sample was initially analyzed (within 48 hours of collection) using an incorrect count time of fifteen seconds. This sample was collected for the period 3/22/89 (0910 hrs) 3/27/89 (0940 hrs) from the Unit 2 Ventilation Vent Effluent Monitor (2HVS-RQ-101). The sample was re-analyzed (beyond 48 hours of sample collection) using the correct count time of 15 minutes. Since the counter used for this sample analysis does automatic decay correction, adjustments to offsite doses were not required.

There were no safety implications to the health and safety of the general public as a result of the failure to properly collect and analyze these samples. It should be noted that the effluent pathway radiation monitors were in service and these monitors did not give any alarm conditions during the periods of non-sampling. These items are documented in Incident Report No's. 2-89-18 & 2-89-46.

As specified by LCO 3.3.3.10 (Table 3.13-13, Action Statement No.29) grab or continuous samples shall be taken when a Noble Gas Activity Monitor is inoperable. Contrary to this, samples were not obtained from 5/22/89 (1847 hrs) through 5/23/89 (0600 hrs) when the Unit 2 Waste Gas Storage Vault Effluent Monitor (22MQ-RQ-303B) was inoperable.

There were no safety implications to the health and safety of the general public as a result of the failure to take the samples, because during this period, only the alarm capabilities were disabled. It should be noted that a review of the activity plots for this monitor showed no increases during the period. Also, the gamma spectrometry analysis on the continuous samples did not indicate any nuclides. This is documented in Incident Report No. 2-89-50.

BEAVER VALLEY - UNIT 1

TABLE 9

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

UNIT 1 OFFSITE DOSE CALCULATION MANUAL CHANGES

Page 1

BV-1 ODCM Changes  
Issue 2, Revision 2

1. Description of BV-1 ODCM Changes

1. Page i:

This revision to the Table of Contents reflects the addition of the following ODCM Sections:

- A. Section 1.4, Liquid Radwaste System (See Justification 1)
- B. Section 2.4, Gaseous Radwaste System (See Justification 1)

2. Page vii:

This revision to the List of Figures reflects the addition of the following ODCM Figures:

- A. Figure 1.4-1, Beaver Valley Power Station Unit 1 Liquid Radwaste System (See Justification 1)
- B. Figure 1.4-2, Beaver Valley Power Station Unit 2 Liquid Radwaste System (See Justification 1)
- C. Figure 2.4-1, Beaver Valley Power Station Units 1 and 2 Gaseous Radwaste System (See Justification 1)
- D. Figure 2.4-2, Beaver Valley Power Station Units 1 and 2 Gaseous Effluent Release Points (See Justification 1)

3. Page 1-5:

This revision corrects the following typos to ODCM Equation 1.1-8:

- A. Show differentiation between the two  $f$ 's. (See Justification 1)
- B. Add the division sign (See Justification 1)

4. Page 1-12:

This revision reflects the redefining of  $F_k$  in equation 1.3-1 as allowed by the NRC. (See Justification 1)

5. Page 1-13 and 1-14:

This revision corrects typos to the following:

- A. Equation 1.3-7, add a division sign between the brackets (See Justification 1)
- B. Equation 1.3-8, add a division sign between the brackets (See Justification 1)
- C. Add the words "from each reactor unit" to two places. This ensures compliance with the current requirements of the Technical Specifications (See Justification 2)

BEAVER VALLEY - UNIT 1

TABLE 9

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

UNIT 1 OFFSITE DOSE CALCULATION MANUAL CHANGES

Page 2

BV-1 ODCM Changes  
Issue 2, Revision 2

6. Pages 1-18 thru 1-20:

This revision reflects the addition of ODCM Section 1.4 regarding the Liquid Radwaste System. (See Justification 1)

7. Pages 2-14 and 2-16:

This revision corrects typos to the following ODCM equations:

- A. Equation 2.1-20, change the HHSP to HSP multiplier from 0.70 to 0.33 (See Justification 1)
- B. Equation 2.1-24, change the HHSP to HSP multiplier from 0.70 to 0.33 (See Justification 1)

8. Page 2-19:

This revision reflects addition of Reference (7). (See Justification 3)

9. Page 2-27:

This revision adds the words "from the site". This ensures compliance with the current requirements of the Technical Specifications. (See Justification 2)

10. Page 2-32:

This revision reflects changes to the particulate and iodine radionuclide mix for the Unit 1 Ventilation Vent and to correct a typo for Xe-135m in the Containment Vacuum Pumps. (See Justification 3)

11. Page 2-43:

This revision provides re-verified  $P_{it}$  values for the Beaver Valley Site. (See Justification 1)

12. Pages 2-49 and 2-50:

This revision adds the words "from each reactor unit". This ensures compliance with the current requirements of the Technical Specifications. (See Justification 2)

13. Pages 2-56 and 2-57:

This revision reflects the correction of the definition for the  $t_f$  value in the cow-meat pathway. (See Justification 1)



BEAVER VALLEY - UNIT 1  
TABLE 9  
1st Half - 1989  
SRMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

UNIT 1 OPPOSITE DOSE CALCULATION MANUAL CHANGES

Page 3

BV-1 ODCM Changes  
Issue 2, Revision 2

14. Page 2-60:

This revision corrects a typo regarding correct punctuation.  
(See Justification 2)

15. Page 2-62:

This revision adds the words "from each reactor unit". This ensures compliance with the current requirements of the Technical Specifications. (See Justification 2)

16. Pages 2-64 thru 2-82:

This revision provides re-verified R values for the Beaver Valley Site. (See Justification 1)

17. Pages 2-97 thru 2-99:

This revision reflects the addition of ODCM Section 2.4 regarding the Gaseous Radwaste System. (See Justification 1)

18. Pages 3-2, 3-4, 3-5, and 3-B:

This revision corrects typos. (See Justification 2)

19. Page B-4:

This revision reflects changes to the particulate and iodine release fractions. (See Justification 3)

BEAVER VALLEY - UNIT 1

TABLE 9

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

UNIT 1 OFFSITE DOSE CALCULATION MANUAL CHANGES

Page 4

BV-1 ODCM Changes  
Issue 2, Revision 2

II. Justification of BV-1 ODCM Changes

1. A letter dated March 2, 1989 (from the NRC) was received by Duquesne Light regarding acceptance of the Offsite Dose Calculation Manuals. The NRC acceptance of the BV-1 ODCM was based on a Technical Evaluation Report (TER No. EGG-PHY-8194) provided by the Idaho National Engineering Laboratory.

As stated in the letter, minor concerns are delineated in Section 4 of the TER. In general, these concerns are considered typos or additions and in no way impact any of the calculations currently being performed for dose contributions. However, one of these concerns is regarding the inability to reproduce the ODCM R values for the cow-meat, cow-milk and goat-milk pathways when using the ODCM/NUREG-0133 methodology. These R values (along with all other ODCM R values) were re-validated VIA Calculation Package No. FPS-ATL-89-014. The results of this package showed that the R values for the three aforementioned pathways were in error. Since the R values in error do not involve the controlling receptor for gaseous release (i.e.; the controlling receptor is VIA the Inhalation, Ground and Vegetation pathways, not the pathways subject to error) than these changes to the ODCM will not adversely impact the accuracy or reliability of effluent dose calculations.

2. As requested by letters ND3NSM:3431, ND1NSM:3522, and ND1NSM:3652, Technical Specifications were required to be verified in all plant implementing procedures. As part of this effort, wording errors/typos were identified in various sections of the ODCM. This revision corrects the anomalies identified during the verification effort.
3. As delineated in letter ND1SHP:776, dated February 12, 1988 (BVPS-1 ODCM Table 2.2-2, Appendix B) a series of apparent discrepancies were identified between ODCM Table 2.2-2 and similar tables of the BVPS-2 FSAR. Evaluation showed that apparent credit was given for continuous filtration of SLCRS releases which is invalid at Unit 1. However, the calculation package on which the BVPS-2 FSAR expected release tables are based, is correct (i.e.; no credit was taken for routine filtration for Unit 1 releases). Except for revising the ODCM, no further corrective action is necessary because the particulates and iodines in the ODCM were not used for gaseous effluent alarm setpoint. Therefore, this change does not adversely impact the accuracy or reliability of setpoint calculations.

III. Concluding Statement of BV-1 ODCM Changes

1. The above justifications ensure that the BV-1 ODCM changes will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.36a and Appendix I to 10 CFR 50 and not adversely impact the accuracy or reliability of effluent dose, or setpoint calculation.

BEAVER VALLEY - UNIT 2

TABLE 10

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

UNIT 2 OFFSITE DOSE CALCULATION MANUAL CHANGES

Page 1

BV-2 ODCM Changes  
Issue 1, Revision 3

1. Description of BV-2 ODCM Changes

1. Page i:

This revision to the Table of Contents reflects the addition of the following ODCM Sections:

- A. Section 1.4, Liquid Radwaste System (See Justification 1)
- B. Section 2.4, Gaseous Radwaste System (See Justification 1)

2. Page vii:

This revision to the List of Figures reflects the addition of the following ODCM Figures:

- A. Figure 1.4-1, Beaver Valley Power Station Unit 1 Liquid Radwaste System (See Justification 1)
- B. Figure 1.4-2, Beaver Valley Power Station Unit 2 Liquid Radwaste System (See Justification 1)
- C. Figure 2.4-1, Beaver Valley Power Station Units 1 and 2 Gaseous Radwaste System (See Justification 1)
- D. Figure 2.4-2, Beaver Valley Power Station Units 1 and 2 Gaseous Effluent Release Points (See Justification 1)

3. Page 1-13:

This revision reflects the redefining of  $F_k$  in equation 1.3-1 as allowed by the NRC. (See Justification 1)

4. Page 1-14:

This revision adds the words "from each reactor unit" to two places on this page. This ensures compliance with the current requirements of the Technical Specifications. (See Justification 2)

5. Pages 1-19 thru 1-21:

This revision reflects the addition of ODCM Section 1.4 regarding the Liquid Radwaste System. (See Justification 1)

6. Pages 2-15 and 2-17:

This revision corrects typos to the following ODCM equations:

- A. Equation 2.1-20, change the HHSP to HSP multiplier from 0.70 to 0.33 (See Justification 1)
- B. Equation 2.1-24, change the HHSP to HSP multiplier from 0.70 to 0.33 (See Justification 1)

BEAVER VALLEY - UNIT 2

TABLE 10

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

UNIT 2 OFFSITE DOSE CALCULATION MANUAL CHANGES

Page 2

BY-2 ODCM Changes  
Issue 1, Revision 3

7. Page 2-28:  
This revision adds the words "from the site". This ensures compliance with the current requirements of the Technical Specifications. (See Justification 2)
8. Page 2-44:  
This revision provides re-verified  $P_{it}$  values for the Beaver Valley Site. (See Justification 1)
9. Pages 2-51 and 2-52:  
This revision adds the words "from each reactor unit". This ensures compliance with the current requirements of the Technical Specifications. (See Justification 2)
10. Pages 2-58 and 2-59:  
This revision reflects the correction of the definition for the  $t_f$  value in the cow-meat pathway. (See Justification 1)
11. Page 2-64:  
This revision adds the words "from each reactor unit". This ensures compliance with the current requirements of the Technical Specifications. (See Justification 2)
12. Pages 2-66 thru 2-84:  
This revision provides re-verified R values for the Beaver Valley Site. (See Justification 1)
13. Pages 2-99 thru 2-101:  
This revision reflects the addition of ODCM Section 2.4 regarding the Gaseous Radwaste System. (See Justification 1)
14. Pages 3-2, 3-4, 3-5, and 3-8:  
This revision corrects typos. (See Justification 2)

BEAVER VALLEY - UNIT 2

TABLE 10

1st Half - 1989

SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

UNIT 2 OFFSITE DOSE CALCULATION MANUAL CHANGES

Page 3

BV-2 ODCM Changes  
Issue 1, Revision 3

II. Justification of BV-2 ODCM Changes

1. A letter dated March 2, 1989 (from the NRC) was received by Duquesne Light regarding acceptance of the Offsite Dose Calculation Manuals. The NRC acceptance of the BV-2 ODCM was based on a Technical Evaluation Report (TER No. EGG-PHY-8217) provided by the Idaho National Engineering Laboratory.

As stated in the letter, minor concerns are delineated in Section 4 of the TER. In general, these concerns are considered typos or additions and in no way impact any of the calculations currently being performed for dose contributions. However, one of these concerns is regarding the inability to reproduce the ODCM R values for the cow-meat, cow-milk and goat-milk pathways when using the ODCM/NUREG-0133 methodology. These R values (along with all other ODCM R values) were re-validated VIA Calculation Package No ERS-ATL-89-014. The results of this package showed that the R values for the three aforementioned pathways were in error. Since the R values in error do not involve the controlling receptor for gaseous release (i.e.; the controlling receptor is VIA the Inhalation, Ground and Vegetation pathways, not the pathways subject to error) than these changes to the ODCM will not adversely impact the accuracy or reliability of effluent dose calculations.

2. As requested by letters ND3NGM:3431, ND1NSM:3522, and ND1NSM:3652, Technical Specifications were required to be verified in all plant implementing procedures. As part of this effort, wording errors/typos were identified in various sections of the ODCM. This revision corrects the anomalies identified during the verification effort.

III. Concluding Statement of BV-2 ODCM Changes

1. The above justifications ensure that the BV-2 ODCM changes will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.70a and Appendix I to 10 CFR 50 and not adversely impact the accuracy or reliability of effluent dose, or setpoint calculation.

Beaver Valley  
Joint Frequency Distribution Tables  
for  
Continuous Releases

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

First Quarter 1989

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	1	0	1	0	0	0	0	2	0	1	0
.76- 3.50	3	1	7	3	4	3	3	4	6	3	1	0	1	0	1	2	5
3.51- 7.50	0	0	0	2	0	0	0	0	0	3	3	1	2	1	1	0	42
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	1	7	5	4	3	4	4	7	6	4	1	3	3	2	3	60

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0
.76- 3.50	3	1	0	2	0	0	0	1	2	1	1	0	1	2	3	1	3
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	18
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	1	1	2	0	0	1	1	2	1	1	2	3	2	3	1	24

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE  
 SITE IDENTIFIER: DLBV2  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY CLASS C

BETWEEN 150.0 AND 35.0 FEET

STABILITY BASED ON: DELTA T  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0
.76-3.50	3	1	2	1	0	0	0	0	1	3	1	1	5	3	1	2	3
3.51-7.50	0	0	0	0	0	0	0	0	0	0	5	1	8	2	0	2	24
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	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	3	1	2	1	0	0	1	0	1	3	7	7	13	5	1	4	45

STABILITY CLASS D

BETWEEN 150.0 AND 35.0 FEET

STABILITY BASED ON: DELTA T  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	32	16	37	35	25	9	8	7	8	8	6	8	6	9	18	19	251
.76-3.50	59	20	5	16	5	5	1	4	7	13	26	52	75	62	82	74	508
3.51-7.50	3	0	0	0	0	0	0	0	0	2	3	64	69	26	11	4	212
7.51-12.50	0	0	0	0	0	0	0	0	0	0	5	14	1	0	0	0	20
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	94	36	42	51	30	14	9	11	15	23	72	138	151	97	111	97	992



PROGRAM: JVD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE  
 SITE IDENTIFIER: DLBV2  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	WW	MMW	TOTAL
CALM																	3
.76- 3.50	16	21	61	55	29	23	15	11	25	16	19	12	12	16	10	15	356
3.51- 7.50	8	9	13	18	9	0	3	2	11	36	43	34	18	11	16	12	243
7.51-12.50	1	0	1	0	0	0	0	0	0	4	30	21	11	2	0	0	70
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	25	30	75	73	38	23	18	13	36	56	92	68	41	29	26	27	673

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	WW	MMW	TOTAL
CALM																	7
.76- 3.50	2	1	4	2	18	25	30	33	20	16	9	2	0	1	0	1	164
3.51- 7.50	0	0	1	0	0	0	0	0	2	11	2	0	0	0	0	0	16
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	1	5	2	18	25	30	33	22	27	11	2	0	1	0	1	187

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBVZ

DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .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
.76- 3.50	1	1	3	7	13	15	45	31	12	7	2	1	3	1	2	0	144
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	3	7	13	15	45	31	12	8	2	1	3	1	2	0	156

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .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																	22
.76- 3.50	51	39	106	99	85	72	101	82	66	47	37	25	21	29	30	36	926
3.51- 7.50	76	32	28	40	18	8	7	11	29	68	76	87	100	78	103	91	852
7.51-12.50	4	0	1	2	0	0	0	0	0	9	71	88	92	31	12	6	316
12.51-18.50	0	0	0	0	0	0	0	0	0	0	5	15	1	0	0	0	21
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	131	71	135	141	103	80	108	93	95	124	187	215	214	136	145	133	2137

ATMOSPHERIC SCIENCES DEPARTMENT

K/S CORPORATION

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBVZ

DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2137

TOTAL NUMBER OF MISSING OBSERVATIONS: 23

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.9 %

MEAN WIND SPEED FOR THIS PERIOD: 4.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

	A	B	C	D	E	F	G
	2.81	1.12	2.11	46.42	31.49	8.75	7.30

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	3	1	7	5	4	3	4	4	7	6	4	1	3	3	2	3	0
B	3	1	1	2	0	0	1	1	2	1	1	2	3	2	3	1	0
C	3	1	2	1	0	0	1	0	1	3	7	3	13	5	1	4	0
D	94	36	42	51	30	14	9	11	15	23	72	138	151	97	111	97	1
E	25	30	75	73	38	23	18	13	36	56	92	68	41	29	26	27	3
F	2	1	5	2	18	25	30	33	22	27	11	2	0	1	0	1	7
G	1	1	3	7	13	15	45	31	12	8	2	1	3	1	2	0	11
TOTAL	131	71	135	141	103	80	108	93	95	124	189	215	214	138	145	133	22



PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY CLASS C  
 BETWEEN 500.0 AND 35.0 FEET

STABILITY BASED ON: DELTA T  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

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

STABILITY CLASS D  
 BETWEEN 500.0 AND 35.0 FEET

STABILITY BASED ON: DELTA T  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	3	6	5	8	10	14	3	3	2	1	2	2	2	0	4	4	69
.76- 3.50	18	17	25	14	31	31	7	7	13	10	8	6	6	10	17	26	246
3.51- 7.50	58	10	9	26	51	27	18	8	12	19	34	31	28	36	48	63	478
7.51-12.50	22	12	4	13	7	6	11	8	9	13	69	60	110	70	29	22	465
12.51-18.50	0	0	0	2	8	0	1	2	3	11	29	26	63	41	0	0	186
18.51-24.00	0	0	0	0	2	0	0	0	0	0	8	8	18	4	0	0	40
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	101	45	45	71	99	78	40	28	39	54	150	133	227	161	96	115	1484

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE  
 SITE IDENTIFIER: DLBV2  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET  
 SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
.76- 3.50	6	5	7	5	1	3	3	3	4	2	3	4	4	4	5	2	61
3.51- 7.50	7	4	6	21	17	9	11	2	5	8	3	10	5	3	5	6	122
7.51-12.50	4	1	5	15	11	10	8	10	8	8	22	15	8	7	2	6	140
12.51-18.50	0	1	0	0	0	4	6	4	9	17	45	5	5	2	2	1	101
18.51-24.00	0	0	0	0	0	0	3	2	3	3	27	1	0	0	0	0	39
>24.00	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	3
TOTAL	17	11	18	41	29	26	31	21	29	38	103	35	22	16	14	15	467

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET  
 SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
.76- 3.50	1	1	4	9	1	6	5	2	4	3	0	3	1	0	0	1	41
3.51- 7.50	0	1	2	3	2	2	12	10	5	7	6	4	3	1	0	1	59
7.51-12.50	0	0	1	2	0	2	2	2	1	5	8	0	9	0	1	0	33
12.51-18.50	1	0	0	0	0	1	2	1	3	4	3	2	0	0	1	0	18
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	2	2	7	14	3	11	21	15	13	20	17	9	13	1	2	2	153

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE  
 SITE IDENTIFIER: 0LBVZ  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	1	1	2	1	2	0	0	0	1	0	1	0	0
.75- 3.50	0	0	0	0	0	0	2	3	4	2	3	7	3	1	0	0	9
3.51- 7.50	0	0	0	0	0	0	0	4	2	0	2	0	0	0	0	0	25
7.51-12.50	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	8
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3
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	0	0	0	0	1	1	4	7	8	2	7	7	4	1	2	133	46

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION 14 HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	10	12	16	22	13	24	13	9	12	6	5	9	8	4	10	7	180
.76- 3.50	25	22	33	38	50	43	33	22	27	27	20	27	17	15	22	33	454
3.51- 7.50	62	11	16	43	62	39	28	25	23	32	66	46	45	43	51	69	661
7.51-12.50	23	13	4	13	7	11	20	15	21	34	118	67	115	72	33	24	590
12.51-18.50	0	0	2	8	0	0	4	4	6	15	57	27	53	41	0	0	227
18.51-24.00	0	0	0	2	0	0	0	0	0	0	11	8	18	4	0	0	43
TOTAL	120	58	71	126	132	117	98	75	89	114	277	184	266	179	116	133	2157

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASES  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160  
 TOTAL NUMBER OF VALID OBSERVATIONS: 2157  
 TOTAL NUMBER OF MISSING OBSERVATIONS: 3  
 PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 %  
 MEAN WIND SPEED FOR THIS PERIOD: 11.4 MPH  
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.05	.00	.28	68.80	21.45	7.09	2.13

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	1	0	0	1	2	2	0	0	0	0	0	0	0	0	0
D	101	45	45	71	99	78	40	28	39	54	150	133	227	161	98	115	0
E	17	11	18	41	29	26	31	21	29	38	103	35	22	16	14	15	1
F	2	2	7	14	3	11	21	15	13	20	17	9	13	1	2	2	1
G	0	0	0	0	1	1	4	9	8	7	7	7	4	1	2	0	6
TOTAL	120	58	77	126	132	117	98	75	89	114	277	184	266	179	116	153	2



Beaver Valley  
Joint Frequency Distribution Tables  
for  
Batch Releases

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

First Quarter 1989



PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY CFD - GROUND LEVEL BATCH RELEASES  
 SITE IDENTIFIER: DLBV2  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET STABILITY CLASS C

WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	WNW	NW	NNW	TOTAL	
CALM																			0
.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	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	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	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	0	0

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET STABILITY CLASS D

WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	WNW	NW	NNW	TOTAL	
CALM																			0
.76- 3.50	0	1	7	2	1	0	0	0	0	1	0	0	0	1	1	1	1	15	0
3.51- 7.50	3	1	1	0	0	0	0	1	0	0	0	1	0	0	1	1	3	11	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	2	8	2	1	0	0	1	0	1	0	1	0	1	2	4	4	26	0



PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES

SITE IDENTIFIER: DLBVZ

DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY CLASS G  
 STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .75 MPH

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

(MPH)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																0
.76- 3.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	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
12.51-18.50	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
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1

STABILITY CLASS ALL  
 STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .75 MPH

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

(MPH)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																0
.76- 3.50	3	2	7	6	3	0	3	4	2	0	2	0	2	1	1	40
3.51- 7.50	3	1	1	0	0	0	1	1	1	0	1	0	0	1	3	15
7.51-12.50	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
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
TOTAL	6	3	8	6	3	0	4	5	5	0	3	0	2	2	4	55

KWS CORPORATION

ATMOSPHERIC SCIENCE DEPARTMENT

PAGE 6

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES  
SITE IDENTIFIER: DLBVZ  
DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET \*\*\*  
WIND MEASURED AT: 35.0 FEET  
WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 55  
TOTAL NUMBER OF VALID OBSERVATIONS: 55  
TOTAL NUMBER OF MISSING OBSERVATIONS: 0  
PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %  
MEAN WIND SPEED FOR THIS PERIOD: 2.9 MPH  
TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES						
A	B	C	D	E	F	G
7.27	.00	.00	47.27	36.36	7.27	1.82

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	1	3	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	3	2	8	2	1	0	0	0	0	0	0	0	0	0	0	0	0
E	3	1	0	4	1	0	1	3	1	1	0	1	0	1	2	4	0
F	0	0	0	0	1	0	2	0	1	0	0	2	0	0	0	0	0
G	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TOTAL	6	3	8	6	3	0	4	4	5	5	0	3	0	2	2	4	0



PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFS - ELEVATED BATCH RELEASES

SITE IDENTIFIER: OLBVZ

DATA PERIOD EXAMINED: 1/ 1/89 - 5/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS C

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	WNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.76-3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51-7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS D

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	WNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.76-3.50	0	0	3	1	1	3	0	1	0	0	0	0	0	0	0	0	0
3.51-7.50	3	1	1	4	8	2	1	1	5	2	1	0	0	0	0	0	9
7.51-12.50	9	1	0	0	25	10	2	0	2	4	1	4	0	1	10	20	30
12.51-18.50	9	0	0	1	4	6	2	0	0	0	3	2	3	2	0	8	39
18.51-24.00	0	0	0	0	0	0	0	0	0	2	1	1	3	4	0	0	40
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	11
TOTAL	21	2	4	6	38	21	5	2	7	8	7	7	6	9	10	29	182



PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES  
 SITE IDENTIFIER: DLBV2  
 DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS E

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
.76- 3.50	0	1	0	1	0	1	1	0	1	0	1	0	0	0	0	0	0
3.51- 7.50	3	0	1	3	5	3	1	1	0	0	0	0	1	0	0	1	19
7.51-12.50	0	0	0	0	1	2	0	0	1	0	4	0	1	0	0	0	9
12.51-18.50	0	0	0	0	0	0	0	0	0	4	6	0	1	0	0	0	11
18.51-24.00	0	0	0	0	0	0	0	0	0	1	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	3	1	1	4	6	6	2	1	2	5	12	0	3	0	0	1	47

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS F

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
.76- 3.50	0	0	1	1	1	1	0	0	0	0	0	2	0	0	0	0	1
3.51- 7.50	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	6
7.51-12.50	0	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	4
12.51-18.50	0	0	0	0	0	1	0	0	3	1	0	0	0	0	0	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	3	5	2	3	0	0	3	1	0	2	0	0	0	0	20

PROGRAM: 33 VERSION: PC-1.0

BEAVER VALLEY JFG - ELEVATED BATCH RELEASES  
 SITE IDENTIFIER: DL3V2  
 DATA PERIOD EXAMINED: 7/1/89 - 3/31/89

\*\*\* FIRST QUARTER 1985 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS G  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

(MPH)	C	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
.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 BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS ALL  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
.76- 3.50	0	1	4	3	2	5	1	1	1	0	1	2	0	0	0	0	1
3.51- 7.50	6	1	3	9	14	5	2	2	5	2	1	0	1	0	0	2	21
7.51-12.50	9	1	1	2	26	13	2	0	3	4	5	4	1	1	10	20	53
12.51-18.50	9	0	0	1	4	7	2	0	3	5	9	2	4	2	0	8	102
18.51-24.00	0	0	0	0	0	0	0	0	0	3	2	1	3	4	0	0	56
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	13
TOTAL	24	3	8	15	46	30	7	3	12	14	19	9	9	9	10	30	289

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 1/ 1/89 - 3/31/89

\*\*\* FIRST QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 249

TOTAL NUMBER OF VALID OBSERVATIONS: 249

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 10.4 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

	A	B	C	D	E	F	G
	.00	.00	.00	73.09	18.88	8.03	.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	21	2	4	6	38	21	5	2	7	8	7	7	6	9	16	29	0
E	3	1	1	4	6	6	2	1	2	5	12	0	3	0	0	1	0
F	0	0	3	5	2	3	0	0	3	1	0	2	0	0	0	0	1
G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	24	3	8	15	46	30	7	3	12	14	19	9	9	9	10	30	1

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

First Quarter 1989

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 150-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1989

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
89	1	30	3	3.3	251.	99.9	-	6.1	263.	99.9	-	10.9	254.	99.9	-	48.2	44.0	.0 E	-1.5 D	.00
89	1	30	4	1.1	92.	99.9	-	3.4	46.	99.9	-	4.2	130.	99.9	-	26.3	18.2	1.9 F	3.3 E	.00
89	1	30	5	2.2	146.	99.9	-	2.3	66.	99.9	-	4.4	173.	99.9	-	24.7	18.6	2.9 F	4.5 F	.00
89	1	30	6	2.1	133.	99.9	-	1.9	46.	99.9	-	5.5	175.	99.9	-	24.4	18.8	1.9 F	4.3 F	.00
89	1	30	7	1.5	138.	99.9	-	2.1	43.	99.9	-	5.6	179.	99.9	-	25.7	18.0	1.1 F	3.0 E	.00
89	1	30	8	2.0	64.	99.9	-	4.9	45.	99.9	-	6.0	146.	99.9	-	27.9	21.3	.4 E	1.1 E	.00
89	1	30	9	3.1	43.	99.9	-	6.5	45.	99.9	-	5.4	112.	99.9	-	29.3	20.3	.4 E	1.1 E	.00
89	1	30	10	2.0	63.	99.9	-	5.0	47.	99.9	-	4.9	103.	99.9	-	30.3	18.5	.3 E	-1.7 D	.00
89	1	30	11	2.5	47.	99.9	-	4.5	88.	99.9	-	5.3	115.	99.9	-	30.5	18.4	.4 D	-1.7 D	.00
89	1	30	12	1.9	94.	99.9	-	2.3	157.	99.9	-	6.1	150.	99.9	-	31.9	18.5	.4 D	-1.8 D	.00
89	1	30	13	2.4	56.	99.9	-	5.7	68.	99.9	-	6.7	111.	99.9	-	31.9	19.1	.5 D	-2.2 D	.00
89	1	30	14	2.2	67.	99.9	-	3.7	102.	99.9	-	7.4	128.	99.9	-	33.1	19.2	.6 D	-2.5 D	.00
89	1	30	15	2.7	78.	99.9	-	4.3	103.	99.9	-	5.6	130.	99.9	-	34.8	22.1	.6 D	-2.7 D	.00
89	1	30	16	3.7	162.	99.9	-	7.1	155.	99.9	-	12.1	158.	99.9	-	34.7	32.1	.5 D	-2.2 D	.01
89	1	30	17	2.3	55.	99.9	-	3.4	88.	99.9	-	7.3	138.	99.9	-	34.4	33.9	.6 D	-2.0 D	.09
89	1	30	18	3.0	49.	99.9	-	5.4	74.	99.9	-	7.6	120.	99.9	-	34.9	34.3	.6 D	-2.2 D	.05
89	1	30	19	4.5	42.	99.9	-	7.5	73.	99.9	-	8.8	110.	99.9	-	35.3	34.7	.5 D	-2.2 D	.05
89	1	30	20	2.8	48.	99.9	-	5.6	69.	99.9	-	8.5	120.	99.9	-	35.7	34.8	.5 D	-2.3 D	.07
89	1	30	21	6.4	335.	99.9	-	8.9	339.	99.9	-	11.8	334.	99.9	-	33.2	14.7	.9 D	-3.0 D	.00
89	1	30	22	5.3	3.	99.9	-	7.8	2.	99.9	-	8.9	348.	99.9	-	33.1	12.8	.8 D	-2.9 D	.00
89	1	30	23	5.0	336.	99.9	-	7.2	332.	99.9	-	8.9	269.	99.9	-	32.0	13.8	.5 D	-2.6 D	.00
89	1	30	24	5.5	314.	99.9	-	7.6	318.	99.9	-	11.4	333.	99.9	-	30.7	12.7	.5 D	-2.4 D	.00
89	1	30	25	3.4	307.	99.9	-	5.1	317.	99.9	-	8.7	337.	99.9	-	29.5	13.0	.4 D	-2.3 D	.00
89	1	30	26	4.1	349.	99.9	-	5.0	337.	99.9	-	10.0	347.	99.9	-	28.2	11.8	.4 D	-2.3 D	.00
89	1	30	27	4.4	338.	99.9	-	5.8	339.	99.9	-	11.5	348.	99.9	-	26.8	17.0	.4 D	-2.2 D	.00
89	1	30	28	3.1	345.	99.9	-	4.1	335.	99.9	-	9.7	352.	99.9	-	25.5	15.0	.4 D	-2.1 D	.00
89	1	30	29	1.7	26.	99.9	-	4.5	5.	99.9	-	9.4	9.	99.9	-	24.0	16.3	.0 E	-1.4 D	.00
89	1	30	30	1.9	1.	99.9	-	4.2	343.	99.9	-	7.7	7.	99.9	-	23.4	15.5	.2 E	-1.7 D	.00
89	1	30	31	.8	358.	99.9	-	3.2	350.	99.9	-	6.8	347.	99.9	-	22.4	15.4	.0 E	-3.2 E	.00
89	1	30	32	1.2	146.	99.9	-	2.2	171.	99.9	-	1.5	10.	99.9	-	20.1	15.7	.9 E	.4 E	.00
89	1	30	33	1.1	179.	99.9	-	1.2	345.	99.9	-	2.2	306.	99.9	-	19.3	15.7	1.0 F	.1 E	.00
89	1	30	34	1.1	148.	99.9	-	3.6	198.	99.9	-	2.6	266.	99.9	-	18.9	14.9	.9 E	.1 E	.00
89	1	30	35	1.4	170.	99.9	-	2.8	217.	99.9	-	3.5	258.	99.9	-	19.1	14.8	.6 E	.9 E	.00
89	1	30	36	1.8	175.	99.9	-	1.9	214.	99.9	-	3.5	270.	99.9	-	19.9	15.5	.2 E	-1.1 E	.00
89	1	30	37	1.8	175.	99.9	-	3.9	273.	99.9	-	1.4	299.	99.9	-	17.3	17.3	.7 D	2.4 E	.00
89	1	30	38	3.1	285.	99.9	-	1.9	273.	99.9	-	8.1	6.	99.9	-	27.3	49.8	.8 D	-1.8 D	.00
89	1	30	39	3.8	1.	99.9	-	6.9	1.	99.9	-	8.2	65.	99.9	-	57.3	49.8	.6 D	-2.4 D	.00
89	1	30	40	2.7	46.	99.9	-	6.6	62.	99.9	-	8.2	65.	99.9	-	57.3	49.8	.6 D	-2.4 D	.00
89	1	30	41	2.0	64.	99.9	-	6.1	73.	99.9	-	7.9	65.	99.9	-	57.0	49.2	.3 E	-2.0 D	.00
89	1	30	42	2.5	18.	99.9	-	4.4	16.	99.9	-	6.6	19.	99.9	-	56.4	48.9	.4 D	-2.0 D	.00
89	1	30	43	1.9	7.	99.9	-	3.2	15.	99.9	-	3.6	33.	99.9	-	55.8	48.9	.3 E	-1.8 D	.00
89	1	30	44	3.9	13.	99.9	-	6.4	20.	99.9	-	7.8	17.	99.9	-	54.0	47.0	.5 D	-1.4 D	.00
89	1	30	45	2.8	84.	99.9	-	8.5	69.	99.9	-	12.5	51.	99.9	-	53.2	47.8	.2 E	-1.4 D	.00
89	1	30	46	1.2	151.	99.9	-	2.5	67.	99.9	-	7.9	64.	99.9	-	53.0	47.5	.0 E	-1.1 E	.00
89	1	30	47	1.5	76.	99.9	-	3.3	50.	99.9	-	5.8	82.	99.9	-	52.2	52.2	.2 E	.0 E	.16
89	1	30	48	3.4	297.	99.9	-	5.4	359.	99.9	-	5.6	188.	99.9	-	51.9	51.9	.0 E	1.1 E	.05
89	1	30	49	2.8	245.	99.9	-	5.7	283.	99.9	-	7.8	257.	99.9	-	52.5	52.4	.3 E	-7.7 E	.03
89	1	30	50	1.6	156.	99.9	-	2.4	217.	99.9	-	8.9	202.	99.9	-	52.9	52.9	.0 E	.4 E	.03
89	1	30	51	1.0	178.	99.9	-	1.9	135.	99.9	-	8.4	186.	99.9	-	53.2	53.2	.0 E	2.8 E	.01

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 150-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1989

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

YR	MO	DY	HR	WIND			STD DEV			WIND			STD DEV			AMB. TEMP			DEW POINT			DELTA T			RAIN		
				SPEED (MPH)	DIR (DEG)	SC	SPEED (MPH)	DIR (DEG)	SC	SPEED (MPH)	DIR (DEG)	SC	SPEED (MPH)	DIR (DEG)	SC	35F (F)	35F (F)	35F (F)	35F (F)	150-35 (F)	300-35 (F)	500-35 (F)	SC (IN)	SC (IN)	SC (IN)	FALL	FALL
89	3	30	9	2.1	196.	99.9	5.3	199.	99.9	13.5	197.	99.9	57.9	57.9	57.6	57.6	57.6	57.6	57.6	57.6	.5	E	.9	E	.00	.00	.00
89	3	30	10	6.1	201.	99.9	9.5	199.	99.9	14.7	203.	99.9	62.0	62.0	58.3	58.3	58.3	58.3	58.3	58.3	-2.5	A	-1.9	D	.00	.00	.00
89	3	30	11	7.2	211.	99.9	10.0	213.	99.9	14.2	212.	99.9	63.2	63.2	57.6	57.6	57.6	57.6	57.6	57.6	-2.4	A	-2.2	D	.00	.00	.00
89	3	30	12	4.8	191.	99.9	8.1	196.	99.9	11.3	200.	99.9	63.0	63.0	57.8	57.8	57.8	57.8	57.8	57.8	-2.0	A	-2.3	D	.00	.00	.00
89	3	30	13	4.0	200.	99.9	6.3	202.	99.9	12.0	200.	99.9	62.2	62.2	56.8	56.8	56.8	56.8	56.8	56.8	-1.8	A	-2.2	D	.01	.01	.01
89	3	30	14	3.1	205.	99.9	4.5	212.	99.9	8.2	201.	99.9	60.3	60.3	39.4	39.4	39.4	39.4	39.4	39.4	0.6	D	-2.1	E	.05	.05	.05
89	3	30	15	5.1	237.	99.9	9.3	251.	99.9	11.7	245.	99.9	62.7	62.7	59.2	59.2	59.2	59.2	59.2	59.2	-1.4	D	-2.0	D	.08	.08	.08

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

First Quarter 1989

PROGRAM: LIST     VERSION: PC-1.0

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

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

YR	MO	DY	HR	WIND				STD	WIND	DIR	WIND	DIR	TEMP	DEW		DELTA	T	RAIN		
				MPH	DIR	(DEG)	SC							(DEG)	SC				(F)	(F)
89	1	7	1	2.1	42	99.9	-	4.3	51	99.9	-	5.3	104	99.9	-	31.5	31.5	.00	.00	.00
89	1	7	2	2.0	38	99.9	-	4.4	57	99.9	-	5.1	110	99.9	-	31.9	31.9	.00	.00	.00
89	1	7	3	2.3	41	99.9	-	4.1	53	99.9	-	5.1	116	99.9	-	32.1	32.1	.00	.00	.00
89	1	7	4	1.4	45	99.9	-	4.3	43	99.9	-	4.8	109	99.9	-	32.4	32.4	.00	.00	.00
89	1	7	5	1.7	74	99.9	-	4.3	51	99.9	-	4.7	82	99.9	-	32.7	32.7	.00	.00	.00
89	1	7	6	1.8	39	99.9	-	3.6	53	99.9	-	6.3	86	99.9	-	33.1	33.1	.00	.00	.00
89	1	7	7	1.9	56	99.9	-	3.6	39	99.9	-	4.2	101	99.9	-	33.2	33.2	.00	.00	.00
89	1	7	8	2.6	69	99.9	-	4.9	58	99.9	-	4.1	89	99.9	-	33.9	33.9	.00	.00	.00
89	1	7	9	2.5	50	99.9	-	4.9	58	99.9	-	4.9	122	99.9	-	34.4	34.4	.00	.00	.00
89	1	7	10	2.5	39	99.9	-	4.9	37	99.9	-	8.3	117	99.9	-	35.3	35.3	.00	.00	.00
89	1	7	11	3.6	54	99.9	-	5.5	72	99.9	-	8.5	117	99.9	-	39.9	39.9	.00	.00	.00
89	1	7	12	3.9	65	99.9	-	4.6	104	99.9	-	4.3	121	99.9	-	45.7	41.1	.00	.00	.00
89	1	29	12	4.3	203	99.9	-	6.4	121	99.9	-	6.9	203	99.9	-	46.1	28.5	.00	.00	.00
89	1	29	13	4.0	204	99.9	-	6.1	200	99.9	-	6.8	204	99.9	-	47.0	28.8	.00	.00	.00
89	1	29	14	7.6	217	99.9	-	9.3	209	99.9	-	11.4	210	99.9	-	47.6	32.5	.00	.00	.00
89	1	29	15	2.8	180	99.9	-	4.3	179	99.9	-	7.0	186	99.9	-	48.2	33.7	.00	.00	.00
89	1	29	16	1.6	144	99.9	-	5.6	164	99.9	-	11.3	185	99.9	-	48.7	32.4	.00	.00	.00
89	1	29	17	3.4	169	99.9	-	7.0	162	99.9	-	12.2	181	99.9	-	48.8	34.0	.00	.00	.00
89	1	29	18	5.3	226	99.9	-	7.5	225	99.9	-	11.8	221	99.9	-	46.4	39.3	.00	.00	.00
89	1	29	19	6.7	224	99.9	-	8.5	222	99.9	-	14.9	223	99.9	-	45.7	40.7	.00	.00	.00
89	1	29	20	5.0	211	99.9	-	7.1	214	99.9	-	13.4	222	99.9	-	46.7	41.6	.00	.00	.00
89	1	29	21	7.2	242	99.9	-	10.3	239	99.9	-	17.0	237	99.9	-	45.3	43.2	.00	.00	.00
89	1	29	22	7.2	233	99.9	-	9.8	234	99.9	-	17.3	231	99.9	-	46.4	44.8	.00	.00	.00
89	1	29	23	4.8	233	99.9	-	7.6	236	99.9	-	16.8	233	99.9	-	46.8	45.5	.00	.00	.00
89	1	29	24	3.8	230	99.9	-	5.0	235	99.9	-	11.9	237	99.9	-	47.7	45.5	.00	.00	.00
89	1	30	1	3.6	243	99.9	-	6.4	253	99.9	-	9.5	246	99.9	-	46.8	45.5	.00	.00	.00
89	2	15	19	4.7	330	99.9	-	7.5	314	99.9	-	11.0	316	99.9	-	36.9	36.1	.00	.00	.00
89	2	15	20	3.9	304	99.9	-	8.0	307	99.9	-	12.4	309	99.9	-	35.1	35.9	.00	.00	.00
89	2	15	21	3.4	303	99.9	-	7.1	300	99.9	-	9.9	317	99.9	-	35.1	35.7	.00	.00	.00
89	2	15	22	2.2	290	99.9	-	5.8	290	99.9	-	9.0	321	99.9	-	34.5	34.5	.00	.00	.00
89	2	15	23	2.4	289	99.9	-	4.3	289	99.9	-	8.0	316	99.9	-	34.2	34.2	.00	.00	.00
89	2	15	24	2.9	297	99.9	-	5.5	293	99.9	-	8.1	310	99.9	-	34.2	34.1	.00	.00	.00
89	2	16	1	2.9	303	99.9	-	5.2	298	99.9	-	10.3	323	99.9	-	34.1	33.4	.00	.00	.00
89	2	16	2	4.3	322	99.9	-	7.1	316	99.9	-	11.7	322	99.9	-	34.1	32.8	.00	.00	.00
89	2	16	3	3.9	309	99.9	-	6.1	313	99.9	-	8.6	336	99.9	-	34.0	32.4	.00	.00	.00
89	2	16	4	3.9	303	99.9	-	4.7	328	99.9	-	9.7	341	99.9	-	33.5	32.9	.00	.00	.00
89	2	16	5	3.0	324	99.9	-	6.1	319	99.9	-	9.6	338	99.9	-	33.4	31.7	.00	.00	.00
89	2	16	6	6.1	336	99.9	-	8.6	344	99.9	-	15.2	346	99.9	-	32.2	26.7	.00	.00	.00
89	2	16	7	4.3	336	99.9	-	6.4	339	99.9	-	10.9	343	99.9	-	31.4	25.6	.00	.00	.00
89	2	16	21	4.2	3	99.9	-	7.0	5	99.9	-	9.3	353	99.9	-	25.9	7.8	.00	.00	.00
89	2	16	22	4.8	11	99.9	-	8.4	11	99.9	-	10.2	355	99.9	-	23.3	10.8	.00	.00	.00
89	2	16	23	3.4	43	99.9	-	7.3	25	99.9	-	8.8	356	99.9	-	21.8	11.8	.00	.00	.00
89	2	16	24	4.6	358	99.9	-	7.5	8	99.9	-	11.8	36	99.9	-	20.8	11.8	.00	.00	.00
89	2	17	1	3.5	11	99.9	-	5.9	11	99.9	-	8.9	12	99.9	-	20.3	11.7	.00	.00	.00
89	2	17	2	1.2	39	99.9	-	2.6	42	99.9	-	4.4	21	99.9	-	20.0	12.2	.00	.00	.00
89	2	17	3	1.4	357	99.9	-	1.7	76	99.9	-	5.1	61	99.9	-	19.5	12.1	.00	.00	.00
89	2	17	4	1.7	97	99.9	-	3.1	73	99.9	-	5.3	60	99.9	-	18.8	12.6	.00	.00	.00
89	2	17	5	1.6	47	99.9	-	3.8	69	99.9	-	5.9	52	99.9	-	18.7	12.5	.00	.00	.00



PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1989

-----75 FT-----150 FT-----500 FT-----

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
89	2	17	5	1.6	84	99.9	2.6	42	99.9	2.8	35	99.9	18.0	12.8	-1.1 E	-1.7 D	.00
89	2	17	7	1.3	183	99.9	2.7	82	99.9	5.5	49	99.9	17.0	9.3	.0 E	-1.8 E	.00
89	2	17	9	1.2	177	99.9	1.5	108	99.9	2.1	34	99.9	17.6	9.0	-4 D	-1.6 D	.00
89	2	17	9	3.0	5	99.9	3.7	19	99.9	3.0	58	99.9	19.7	13.8	-7 D	-2.4 D	.00
89	2	17	10	4.3	360	99.9	5.4	8	99.9	3.1	39	99.9	21.6	10.6	-8 D	-2.3 D	.00
89	2	17	11	2.5	17	99.9	3.2	10	99.9	5.1	9	99.9	23.8	6.6	-7 D	-2.6 D	.00
89	2	17	12	4.2	343	99.9	6.2	357	99.9	5.8	349	99.9	26.5	8.6	-1.0 C	-3.1 D	.00
89	2	17	13	3.0	351	99.9	4.5	25	99.9	6.2	4	99.9	27.5	7.6	-9 D	-2.9 D	.00
89	2	17	14	4.4	318	99.9	5.7	332	99.9	6.7	342	99.9	28.3	6.7	-8 D	-2.7 D	.00
89	2	17	15	4.2	11	99.9	7.1	12	99.9	7.6	2	99.9	29.3	9.8	-9 D	-2.9 D	.00
89	2	17	16	4.4	336	99.9	6.5	345	99.9	8.4	353	99.9	29.4	9.8	-7 D	-2.6 D	.00
89	2	17	17	4.5	325	99.9	6.8	333	99.9	8.1	330	99.9	29.5	10.4	-5 D	-2.4 D	.00
89	2	19	22	2.6	240	99.9	3.9	216	99.9	9.8	224	99.9	35.2	20.5	.0 E	.0 E	.00
89	2	19	23	2.9	201	99.9	5.7	215	99.9	12.7	225	99.9	35.1	20.0	.6 E	.7 E	.00
89	2	19	24	2.6	213	99.9	3.8	181	99.9	11.3	224	99.9	34.3	21.5	.4 E	.9 E	.00
89	2	20	1	2.8	194	99.9	5.1	207	99.9	10.4	225	99.9	34.3	21.3	.9 E	.6 E	.00
89	2	20	2	6.0	228	99.9	8.2	220	99.9	14.5	225	99.9	35.4	26.4	-4 D	-1.7 D	.00
89	2	20	3	1.6	245	99.9	2.0	223	99.9	7.0	219	99.9	33.6	30.6	-4 D	-1.8 D	.00
89	2	20	4	1.1	105	99.9	2.3	95	99.9	2.3	154	99.9	32.8	32.0	-2 E	-1.7 D	.00
89	2	20	5	.6	83	99.9	1.2	76	99.9	2.4	220	99.9	32.7	32.5	-1 E	-1.0 E	.01
89	2	20	6	.8	317	99.9	1.2	89	99.9	2.1	128	99.9	32.3	32.3	.0 E	-.3 E	.00
89	2	20	7	1.0	74	99.9	3.2	66	99.9	2.7	75	99.9	32.1	32.1	.0 E	.0 E	.00
89	2	20	8	1.5	58	99.9	2.0	70	99.9	6.2	153	99.9	32.7	32.1	.0 E	-.8 E	.00
89	2	22	22	5.7	336	99.9	8.2	344	99.9	12.1	343	99.9	26.5	15.8	-5 D	-2.5 D	.00
89	2	22	23	6.7	345	99.9	9.4	347	99.9	15.1	348	99.9	25.4	16.0	-5 D	-2.6 D	.00
89	2	22	24	5.5	8	99.9	9.9	10	99.9	16.0	360	99.9	24.0	13.1	-5 D	-2.5 D	.00
89	2	23	1	7.0	13	99.9	12.2	13	99.9	15.8	2	99.9	23.0	11.0	-6 D	-2.6 D	.00
89	2	23	2	6.7	341	99.9	9.5	344	99.9	14.5	349	99.9	22.0	10.3	-5 D	-2.5 D	.00
89	2	23	3	4.6	348	99.9	7.2	358	99.9	10.9	348	99.9	20.6	4.0	-5 D	-2.4 D	.00
89	2	23	4	5.9	8	99.9	10.5	13	99.9	14.5	10	99.9	19.8	3.3	-5 D	-2.4 D	.00
89	2	23	5	5.8	332	99.9	8.6	348	99.9	13.6	351	99.9	19.6	8.3	-6 D	-2.6 D	.00
89	2	23	6	4.6	22	99.9	9.7	18	99.9	12.6	355	99.9	10.4	6.2	-6 D	-2.5 D	.00
89	2	23	7	6.3	348	99.9	9.1	340	99.9	12.2	348	99.9	17.5	7.4	-6 D	-2.6 D	.00
89	2	23	8	6.0	346	99.9	8.3	343	99.9	10.6	336	99.9	16.5	6.2	-6 D	-2.5 D	.00
89	2	23	9	7.4	353	99.9	11.6	355	99.9	15.2	347	99.9	16.5	7.7	-7 D	-2.8 D	.00
89	2	23	10	7.1	315	99.9	10.0	316	99.9	12.6	331	99.9	17.0	8.4	-7 D	-2.7 D	.00
89	2	23	11	7.1	9	99.9	11.0	15	99.9	13.5	9	99.9	18.2	5.6	-1.1 B	-3.1 D	.00
89	2	23	12	5.6	10	99.9	9.2	1	99.9	12.6	351	99.9	19.3	9.2	-1.1 B	-3.3 D	.00
89	2	26	15	8.6	269	99.9	16.2	278	99.9	22.5	291	99.9	35.4	32.2	-1.0 C	-2.9 D	.00
89	2	26	16	8.2	270	99.9	15.5	280	99.9	24.1	290	99.9	34.6	28.7	-1.0 C	-3.1 D	.00
89	2	26	17	6.2	281	99.9	11.8	286	99.9	19.1	292	99.9	34.6	28.9	-1.2 A	-2.6 D	.00
89	2	26	18	6.7	270	99.9	13.6	277	99.9	17.9	280	99.9	33.8	27.7	-6 D	-2.4 D	.00
89	2	26	19	4.4	278	99.9	9.5	278	99.9	16.6	283	99.9	31.9	30.6	-3 E	-2.0 D	.00
89	2	26	20	6.5	269	99.9	12.5	276	99.9	17.5	283	99.9	31.9	26.5	-3 E	-2.2 D	.00
89	2	26	21	7.6	273	99.9	13.9	276	99.9	21.9	285	99.9	31.1	26.0	-4 D	-2.3 D	.00
89	2	26	22	7.8	269	99.9	13.5	274	99.9	19.2	280	99.9	30.8	25.0	-4 D	-2.3 D	.00
89	2	26	23	8.4	272	99.9	16.2	276	99.9	23.4	283	99.9	29.7	21.1	-3 E	-2.2 D	.00
89	2	26	24	7.3	254	99.9	12.3	268	99.9	16.2	273	99.9	29.5	22.2	-4 D	-2.3 D	.00



PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1989

-----30 FT-----150 FT-----500 FT-----

YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	STD DEV (DEG)	STD DEV (DEG)	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
89	3	21	6	5.6	337.	7.9	341.	99.9	12.4	344.	99.9	32.7	30.0	-2.7	-5.0	-2.8	.00
89	3	21	7	6.1	334.	9.0	347.	99.9	12.8	358.	99.9	31.4	26.5	-4.9	-5.0	-3.1	.00
89	3	21	8	6.1	347.	8.5	345.	99.9	9.9	348.	99.9	30.7	26.3	-4.4	-5.0	-2.9	.00
89	3	21	9	6.4	325.	9.3	326.	99.9	14.6	338.	99.9	29.9	24.9	-5.0	-6.0	-2.9	.00
89	3	21	10	6.1	336.	9.1	341.	99.9	10.9	336.	99.9	29.7	23.7	-6.0	-7.0	-2.8	.00
89	3	21	11	8.5	316.	11.8	317.	99.9	12.5	334.	99.9	30.6	20.6	-9.0	-9.0	-2.8	.00
89	3	21	12	9.0	327.	12.4	336.	99.9	12.7	343.	99.9	30.7	21.1	-9.6	-10.0	-2.5	.00
89	3	21	13	6.2	330.	10.2	338.	99.9	10.3	335.	99.9	32.6	20.2	-11.4	-1.1	-3.3	.00
89	3	21	19	5.5	314.	7.6	318.	99.9	11.4	333.	99.9	30.7	20.2	-10.5	-5.0	-2.4	.00
89	3	21	20	3.4	307.	5.1	317.	99.9	8.7	337.	99.9	29.5	13.0	-15.5	-4.0	-2.3	.00
89	3	21	21	4.1	349.	5.0	337.	99.9	10.0	347.	99.9	28.2	11.8	-16.4	-4.0	-2.3	.00
89	3	21	22	4.4	338.	5.8	339.	99.9	11.5	348.	99.9	26.8	17.0	-9.8	-4.0	-2.2	.00
89	3	21	23	3.1	345.	4.1	335.	99.9	9.7	352.	99.9	25.5	15.0	-10.5	-9.0	-2.1	.00
89	3	21	24	1.7	26.	4.5	5.	99.9	9.4	9.	99.9	24.0	16.3	-8.7	-9.0	-1.4	.90
89	3	22	1	1.9	1.	4.2	349.	99.9	7.7	7.	99.9	23.4	15.5	-8.9	-2.2	-1.7	.00
89	3	22	2	.8	358.	3.2	350.	99.9	6.8	347.	99.9	22.4	15.4	-7.0	-0.0	-1.2	.00
89	3	22	11	3.2	41.	4.5	55.	99.9	4.9	66.	99.9	30.3	12.9	-17.4	-1.1	-3.3	.00
89	3	22	12	3.3	242.	4.4	74.	99.9	5.7	69.	99.9	33.2	11.4	-21.8	-1.0	-2.3	.00
89	3	22	13	5.0	344.	6.0	1.	99.9	3.0	3.	99.9	33.3	10.8	-22.5	-1.2	-2.3	.00
89	3	22	14	3.7	352.	4.4	2.	99.9	3.8	350.	99.9	34.0	13.9	-20.1	-8.0	-1.6	.00
89	3	22	15	4.5	357.	5.2	13.	99.9	4.7	10.	99.9	35.6	11.8	-23.8	-8.0	-1.6	.00
89	3	22	16	4.0	53.	5.7	69.	99.9	3.8	78.	99.9	35.8	11.0	-24.8	-7.0	-1.1	.00
89	3	22	17	3.7	345.	4.3	348.	99.9	3.3	13.	99.9	37.7	11.4	-26.3	-8.0	-3.3	.00
89	3	22	18	1.9	348.	2.3	49.	99.9	3.0	106.	99.9	37.8	11.7	-26.1	-6.0	-1.7	.00
89	3	22	19	1.2	331.	5.0	127.	99.9	6.0	141.	99.9	32.7	14.3	-28.5	-3.6	1.4	.00
89	3	22	20	1.6	148.	1.7	75.	99.9	3.6	82.	99.9	29.4	18.8	-10.6	2.1	3.3	.00
89	3	22	21	1.4	148.	2.1	49.	99.9	3.5	34.	99.9	27.5	20.0	-7.5	2.5	4.5	.00
89	3	22	22	1.3	145.	2.4	20.	99.9	4.6	75.	99.9	26.1	20.1	-6.0	2.5	4.8	.00
89	3	22	23	2.0	59.	4.0	110.	99.9	16.9	117.	99.9	26.2	16.6	-9.6	4.3	6.9	.00
89	3	22	24	1.7	78.	3.6	52.	99.9	11.5	118.	99.9	25.4	16.1	-9.0	3.3	5.3	.00
89	3	23	1	1.3	132.	3.2	43.	99.9	6.8	101.	99.9	23.4	15.6	-11.8	3.7	5.4	.00
89	3	23	2	1.5	146.	2.7	53.	99.9	6.3	77.	99.9	22.7	15.5	-17.2	3.4	5.5	.00
89	3	23	3	1.5	118.	3.1	51.	99.9	8.1	62.	99.9	23.4	16.0	-7.0	2.0	4.0	.00
89	3	23	4	1.3	140.	1.2	47.	99.9	6.8	52.	99.9	22.1	17.4	-6.7	3.0	5.3	.00
89	3	23	5	1.3	144.	1.3	48.	99.9	10.0	49.	99.9	20.9	16.9	-13.0	3.4	5.9	.00
89	3	23	6	1.8	139.	2.0	54.	99.9	10.9	67.	99.9	20.5	16.5	-14.0	4.1	5.7	.00
89	3	23	7	2.1	112.	3.0	40.	99.9	7.0	77.	99.9	22.2	16.1	-6.1	3.4	3.4	.00
89	3	23	8	1.7	105.	4.1	66.	99.9	5.9	77.	99.9	28.8	18.7	-10.1	-0.0	-9.9	.00
89	3	23	9	4.7	11.	5.3	34.	99.9	5.5	101.	99.9	33.2	16.6	-16.6	-5.0	-5.5	.00
89	3	23	10	4.1	63.	5.8	88.	99.9	6.8	95.	99.9	40.1	16.0	-24.1	-8.0	-2.1	.00
89	3	23	11	3.6	102.	5.5	91.	99.9	7.1	93.	99.9	44.8	17.5	-27.3	-1.3	-2.8	.00
89	3	23	12	5.8	66.	10.0	85.	99.9	11.3	91.	99.9	58.3	17.6	-40.7	-1.9	-3.8	.00
89	3	23	13	5.0	93.	8.1	87.	99.9	9.7	90.	99.9	52.0	17.5	-34.5	-1.7	-3.8	.00
89	3	23	14	4.3	92.	7.9	99.	99.9	10.6	98.	99.9	52.	17.4	-34.6	-1.7	-3.2	.00
89	3	23	15	4.3	74.	7.4	89.	99.9	10.6	95.	99.9	54.2	19.1	-35.1	-1.4	-3.3	.00
89	3	23	16	4.1	109.	9.1	97.	99.9	11.7	102.	99.9	53.5	18.6	-35.4	-1.3	-3.3	.00
89	3	23	17	5.1	83.	9.8	94.	99.9	13.6	102.	99.9	52.3	20.1	-32.2	-7.0	-2.6	.00
89	3	23	18	4.4	77.	9.9	81.	99.9	15.5	89.	99.9	50.2	20.4	-29.8	-2.2	-2.0	.00

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR PEPPER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE FIRST QUARTER 1989

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	TEMP 35F (F)	POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
89	3	23	19	3.8	81.	99.9	8.9	81.	99.9	14.1	95.	99.9	47.8	19.9	.0 E	-1.6 D	.00
89	3	23	20	4.1	67.	99.9	9.0	73.	99.9	14.1	89.	99.9	46.1	20.1	.0 E	-1.6 D	.00
89	3	23	21	3.6	75.	99.9	9.2	74.	99.9	12.3	94.	99.9	44.9	20.1	.0 E	-1.5 D	.00
89	3	23	22	3.4	60.	99.9	7.5	75.	99.9	11.5	101.	99.9	44.4	20.9	-1.2 E	-1.7 D	.00
89	3	23	23	2.7	73.	99.9	6.9	85.	99.9	12.3	108.	99.9	44.7	19.1	-1.2 E	-1.8 D	.00
89	3	23	24	3.4	67.	99.9	7.4	80.	99.9	9.4	105.	99.9	44.7	17.9	-3.3 E	-2.1 D	.00
89	3	24	1	3.3	80.	99.9	6.9	90.	99.9	12.3	113.	99.9	44.2	19.3	-3.3 E	-2.0 D	.00
89	3	24	2	2.9	86.	99.9	5.8	83.	99.9	9.7	107.	99.9	41.3	29.5	-2.2 E	-2.1 D	.00
89	3	24	3	3.4	63.	99.9	7.4	80.	99.9	11.7	100.	99.9	38.4	34.7	-3.3 E	-1.9 D	.04
89	3	24	4	2.7	77.	99.9	7.2	73.	99.9	11.3	90.	99.9	37.5	35.9	-3.3 E	-2.0 D	.03
89	3	24	5	2.4	66.	99.9	5.5	72.	99.9	9.6	90.	99.9	37.1	36.3	-3.3 E	-2.0 D	.07
89	3	24	6	1.7	77.	99.9	4.9	75.	99.9	8.6	93.	99.9	37.2	36.9	-3.3 E	-1.8 D	.06
89	3	24	7	2.9	66.	99.9	7.5	71.	99.9	12.3	94.	99.9	37.9	37.6	-3.3 E	-1.7 D	.03
89	3	24	8	4.1	73.	99.9	9.1	80.	99.9	14.2	92.	99.9	38.8	37.7	.4 D	-2.1 D	.03
89	3	24	9	4.4	78.	99.9	7.8	81.	99.9	12.5	99.	99.9	39.6	37.7	-6.0 D	-2.5 D	.00
89	3	24	10	4.3	78.	99.9	8.6	84.	99.9	10.6	90.	99.9	40.3	37.7	-7.0 D	-2.7 D	.00
89	3	24	11	2.9	75.	99.9	5.9	86.	99.9	8.0	93.	99.9	41.0	37.3	-9.0 D	-2.8 D	.00
89	3	24	12	3.8	79.	99.9	8.1	84.	99.9	11.2	91.	99.9	41.9	37.2	-9.0 D	-2.7 D	.00
89	3	24	13	2.9	92.	99.9	6.3	82.	99.9	8.0	82.	99.9	42.4	37.2	-6.0 D	-2.7 D	.00
89	3	24	14	3.5	88.	99.9	7.8	87.	99.9	9.7	96.	99.9	42.9	37.0	-9.0 D	-2.7 D	.00
89	3	24	15	3.0	85.	99.9	5.0	91.	99.9	6.3	93.	99.9	42.6	37.2	-8.0 D	-2.5 D	.00
89	3	24	16	2.3	91.	99.9	5.0	92.	99.9	6.8	86.	99.9	43.0	37.6	-8.0 D	-2.6 D	.00
89	3	24	17	2.1	96.	99.9	3.8	87.	99.9	5.5	89.	99.9	42.7	36.9	-5.0 D	-2.4 D	.00
89	3	24	18	1.1	106.	99.9	2.1	106.	99.9	3.2	98.	99.9	42.6	36.9	-5.0 D	-2.3 D	.00
89	3	24	19	1.7	39.	99.9	3.8	78.	99.9	5.7	90.	99.9	42.1	37.0	-4.0 D	-2.1 D	.00
89	3	24	20	1.5	27.	99.9	2.6	77.	99.9	4.7	100.	99.9	41.5	37.0	-4.0 D	-2.1 D	.00
89	3	24	21	1.7	74.	99.9	3.1	88.	99.9	5.6	92.	99.9	41.1	36.8	-4.0 D	-2.2 D	.00
89	3	24	22	1.1	16.	99.9	2.1	50.	99.9	2.6	107.	99.9	40.6	36.8	-4.0 D	-2.3 D	.00
89	3	24	23	1.5	37.	99.9	2.3	44.	99.9	3.5	117.	99.9	40.4	36.6	-4.0 D	-2.2 D	.00
89	3	24	24	1.8	46.	99.9	2.7	52.	99.9	4.3	121.	99.9	40.2	36.4	-4.0 D	-2.2 D	.00
89	3	25	1	1.0	4.	99.9	1.3	37.	99.9	5.0	136.	99.9	40.1	36.3	-4.0 D	-2.1 D	.00
89	3	25	2	1.0	93.	99.9	1.6	84.	99.9	3.9	161.	99.9	39.9	36.6	-3.3 E	-2.0 D	.00
89	3	25	3	1.5	217.	99.9	2.3	196.	99.9	7.1	176.	99.9	40.1	36.7	-4.0 D	-2.1 D	.00
89	3	25	4	1.9	142.	99.9	4.4	154.	99.9	7.9	185.	99.9	40.4	37.3	-4.0 D	-1.9 D	.00
89	3	25	5	1.5	118.	99.9	2.8	148.	99.9	6.9	189.	99.9	40.6	38.2	-3.3 E	-2.0 D	.00
89	3	25	6	1.8	126.	99.9	4.0	150.	99.9	7.1	179.	99.9	40.8	39.1	-2.2 E	-1.9 D	.00
89	3	25	7	1.7	60.	99.9	1.9	115.	99.9	6.9	169.	99.9	41.5	39.7	-4.0 D	-1.9 D	.00
89	3	25	8	1.9	186.	99.9	3.7	188.	99.9	8.6	198.	99.9	43.3	41.4	-4.0 D	-1.9 D	.00
89	3	25	9	4.4	204.	99.9	5.9	211.	99.9	8.7	210.	99.9	45.3	43.1	-5.0 D	-2.1 D	.00
89	3	25	10	5.4	210.	99.9	7.6	213.	99.9	8.9	212.	99.9	47.5	44.7	-7.0 D	-2.2 D	.00
89	3	25	11	5.1	221.	99.9	7.2	243.	99.9	9.8	241.	99.9	49.4	45.5	-6.0 D	-1.7 D	.00
89	3	25	12	5.1	243.	99.9	6.8	234.	99.9	8.7	215.	99.9	53.7	46.6	-9.0 D	-1.7 D	.00
89	3	25	13	7.9	230.	99.9	11.2	230.	99.9	12.8	229.	99.9	57.7	47.7	-1.2 E	-1.2 E	.00
89	3	25	14	10.7	235.	99.9	15.0	238.	99.9	19.7	232.	99.9	60.6	47.7	-1.0 C	-2.1 D	.00
89	3	25	15	11.2	265.	99.9	19.3	263.	99.9	20.6	249.	99.9	61.7	47.3	-1.1 E	-1.6 D	.00
89	3	25	16	6.6	281.	99.9	12.6	286.	99.9	16.5	270.	99.9	59.9	48.0	-1.0 C	-2.3 D	.00
89	3	25	17	5.7	274.	99.9	10.4	277.	99.9	12.7	271.	99.9	58.9	47.5	-7.0 D	-1.8 E	.00
89	3	25	18	4.0	256.	99.9	6.2	258.	99.9	8.2	249.	99.9	59.1	47.8	-4.0 D	-2.0 D	.00

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASEE FOR THE FIRST QUARTER 1989

-----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 3SF (F)	DEW POINT 3SF (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RGIN FALL SC(N)	
89	3	25	19	2.0	172.	99.9	-	2.6	224.	99.9	-	6.7	264.	99.9	-	55.0	47.6	2.1	1.9	.9	E .00
89	3	25	20	1.1	108.	99.9	-	1.6	319.	99.9	-	1.1	187.	99.9	-	49.9	46.2	3.3	3.6	2.3	E .00
89	3	25	21	1.7	53.	99.9	-	2.6	42.	99.9	-	2.4	241.	99.9	-	43.8	46.3	1.9	1.9	4.8	F .00
89	3	25	22	1.4	82.	99.9	-	2.3	353.	99.9	-	3.2	239.	99.9	-	47.7	45.7	2.0	2.0	4.1	F .00
89	3	25	23	1.4	126.	99.9	-	2.2	47.	99.9	-	1.2	120.	99.9	-	44.8	44.3	2.3	2.3	3.5	E .00
89	3	25	24	.9	153.	99.9	-	.8	78.	99.9	-	2.8	113.	99.9	-	42.6	42.6	3.3	3.6	6.7	F .00
89	3	26	1	.7	135.	99.9	-	.9	353.	99.9	-	.6	21.	99.9	-	41.3	41.3	2.8	2.8	4.2	F .00
89	3	26	2	.0	95.	99.9	-	2.0	44.	99.9	-	3.5	76.	99.9	-	40.1	40.1	2.4	2.4	6.3	F .00
89	3	26	3	.7	296.	99.9	-	1.1	279.	99.9	-	1.4	99.	99.9	-	39.7	39.7	2.1	2.1	4.8	F .00

Beaver Valley  
Joint Frequency Distribution Tables  
for  
Continuous Releases

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

Second Quarter 1989

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBV2

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY CLASS A  
 STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.76- 3.50	5	9	6	3	3	2	5	4	2	0	3	3	3	4	6	7	65
3.51- 7.50	12	13	2	1	5	4	2	3	3	11	15	13	18	34	14	9	159
7.51-12.50	3	2	0	0	0	0	0	0	3	3	8	5	5	4	0	2	35
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	20	24	8	4	8	6	7	7	8	14	26	21	26	42	20	18	259

STABILITY CLASS B  
 STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.76- 3.50	1	0	2	0	2	0	1	0	1	0	0	1	3	1	1	2	15
3.51- 7.50	2	3	0	1	0	0	0	0	1	3	5	5	6	8	6	2	42
7.51-12.50	0	0	0	0	0	0	0	0	0	2	3	2	1	2	1	0	11
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	3	2	1	2	0	1	0	2	5	8	8	10	11	8	4	68

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBVZ

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	MNW	NW	MNW	TOTAL
CALM																	0
.76- 3.50	1	1	0	0	0	0	0	0	1	0	0	0	1	2	2	1	9
3.51- 7.50	4	1	1	1	0	0	0	0	3	3	3	6	10	19	6	2	59
7.51-12.50	0	0	0	0	0	0	0	0	1	1	4	3	1	0	1	0	10
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	5	2	1	1	0	0	0	0	4	4	7	9	12	21	9	3	78

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	MNW	NW	MNW	TOTAL
CALM																	0
.76- 3.50	18	22	20	8	13	8	3	9	10	11	13	18	29	34	36	15	267
3.51- 7.50	20	10	1	1	0	1	3	3	19	23	30	35	75	54	27	28	330
7.51-12.50	2	0	0	0	0	0	0	0	0	2	25	19	23	2	1	1	75
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	40	32	21	9	13	9	6	12	29	36	69	72	127	90	64	44	673



PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE

SITE IDENTIFIER: DLBY2

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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																	16
.76- 3.50	29	29	43	43	27	27	25	32	37	31	16	35	22	18	27	29	470
3.51- 7.50	5	20	9	4	1	0	1	0	3	24	27	25	5	2	3	10	139
7.51-12.50	0	0	0	0	0	0	0	0	0	2	6	6	0	0	0	0	14
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	34	49	52	47	28	27	26	32	40	57	50	66	27	20	30	39	640

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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
.76- 3.50	3	5	5	15	10	42	54	45	22	10	2	3	0	1	0	3	220
3.51- 7.50	0	0	0	0	0	0	0	0	4	3	2	0	0	0	0	0	9
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	5	5	15	10	42	54	45	26	13	4	3	0	1	0	3	235

PROGRAM: JFD VERSION: PC-1.0

SEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	TOTAL
CALM																	5
.76- 3.50	1	0	3	7	11	22	82	52	16	0	2	0	0	0	0	1	197
3.51- 7.50	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	3
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	3	7	11	22	82	52	18	0	2	0	0	0	0	1	205

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .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	TOTAL
CALM																	27
.76- 3.50	58	66	79	76	66	101	170	142	89	52	36	60	58	60	72	58	1243
3.51- 7.50	44	47	13	8	6	5	6	6	35	67	82	84	114	117	56	51	741
7.51-12.50	5	2	0	0	0	0	0	0	3	10	46	35	30	8	3	3	145
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	107	115	92	84	72	106	176	148	127	124	166	179	202	185	131	112	2158

PROGRAM: JFD VERSION: PC-1.0

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

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184  
 TOTAL NUMBER OF VALID OBSERVATIONS: 2158  
 TOTAL NUMBER OF MISSING OBSERVATIONS: 26  
 PERCENT DATA RECOVERY FOR THIS PERIOD: 98.8 %  
 MEAN WIND SPEED FOR THIS PERIOD: 3.5 MPH  
 TOTAL NUMBER OF OBSERVATIONS WITH BACKLAP DATA: 0

\*\*\* SECOND QUARTER 1989 \*\*\*

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
12.00	3.15	3.61	31.19	29.66	10.89	9.50

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	20	24	8	4	8	6	7	7	8	14	26	21	26	42	20	18	0
B	3	3	2	1	2	0	1	0	2	5	8	8	10	11	8	4	0
C	5	2	1	1	0	0	0	0	4	4	7	9	12	21	9	3	0
D	40	32	21	9	13	9	6	12	29	36	69	72	127	90	64	44	0
E	34	49	52	47	28	27	26	32	40	57	50	66	27	20	30	39	16
F	3	5	5	15	10	42	54	45	26	13	4	3	0	1	0	3	6
G	2	0	3	7	11	22	82	52	18	0	2	0	0	0	0	1	5
TOTAL	107	115	92	84	72	106	176	142	127	129	166	179	202	185	131	112	27



PROGRAM: JFD VERSION: PC-1.0

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

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS: C

WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.0 FEET  
 SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.76- 3.50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	1	0	1	0	0	1	1	0	0	0	1	0	0	2	7
7.51-12.50	6	2	1	0	0	1	2	5	2	0	0	0	1	0	0	20	
12.51-18.50	3	0	0	0	0	0	0	2	0	0	0	0	2	0	0	10	
18.51-24.00	1	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	
TOTAL	10	3	2	0	1	1	2	8	3	0	0	0	3	2	1	3	39

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS: D

WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.0 FEET  
 SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
.76- 3.50	6	2	1	3	4	6	5	1	3	2	5	5	5	3	3	5	61
3.51- 7.50	16	7	4	12	17	23	9	4	11	10	16	18	25	22	23	24	241
7.51-12.50	42	28	15	7	7	14	11	16	29	45	41	32	59	103	60	29	538
12.51-18.50	12	24	4	6	3	0	4	8	9	21	45	28	73	68	12	10	327
18.51-24.00	0	4	2	5	0	0	0	0	0	1	15	6	15	13	1	0	62
>24.00	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	3
TOTAL	76	65	26	33	31	45	29	29	52	80	123	89	178	209	99	68	1233

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE  
 SITE IDENTIFIER: DLGVZ  
 DATA PERIOD EXAMINED: 4/ 1/80 - 6/30/89

\*\*\* SECOND QUARTER 1980 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	3
.76- 3.50	4	3	12	9	11	13	5	10	6	10	12	11	18	14	6	9	153
3.51- 7.50	8	14	8	15	17	17	10	13	7	12	12	9	25	34	6	10	223
7.51-12.50	13	8	0	6	4	2	0	7	14	11	11	5	20	10	9	8	134
12.51-18.50	9	1	2	2	2	1	4	5	5	5	17	8	0	2	1	1	63
18.51-24.00	0	0	0	0	0	0	1	1	0	0	10	0	0	0	0	0	12
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	34	26	22	32	34	33	32	36	36	36	62	31	63	60	22	28	588

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	4
.76- 3.50	3	8	7	4	5	3	4	7	4	1	5	9	12	6	8	2	88
3.51- 7.50	10	11	11	6	9	6	5	4	11	5	7	11	10	18	8	3	135
7.51-12.50	3	4	0	1	1	2	4	3	4	8	3	0	0	3	2	0	38
12.51-18.50	0	0	0	1	0	0	3	4	1	3	2	0	0	0	0	0	14
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	16	23	18	12	15	11	16	18	29	17	17	20	22	27	18	5	279

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE

SITE IDENTIFIER: DLBVZ

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS G  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH

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

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
.76- 3.50	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	0	0	0	0	0	1	1	1	0	5	1	0	0	0	0	1	10
7.51-12.50	0	0	0	0	0	0	2	1	2	4	0	0	0	0	0	0	9
12.51-18.50	0	0	0	0	0	0	2	1	0	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	2	6	3	2	9	1	0	0	0	0	1	24

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET STABILITY CLASS ALL  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH

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

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	13	14	20	16	20	25	15	10	13	13	22	25	35	23	17	16	305
.76- 3.50	35	34	24	33	44	48	32	23	31	32	36	38	61	74	37	40	622
3.51- 7.50	68	42	18	14	12	20	25	32	51	68	55	37	79	116	72	37	746
7.51-12.50	24	25	7	9	5	1	13	20	15	29	64	30	75	72	13	12	418
12.51-18.50	1	4	2	5	0	0	1	1	0	1	25	6	15	13	1	0	75
18.51-24.00	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	3
TOTAL	141	119	71	77	81	94	86	64	110	144	203	140	266	298	140	105	2177

PROGRAM: JFD VERSION: PC-1.0

SEASIDE VALLEY JFD - ELEVATED CONTINUOUS RELEASE  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 \*\*\* SECOND QUARTER 1989 \*\*\*

TOTAL NUMBER OF OBSERVATIONS: 2184  
 TOTAL NUMBER OF VALID OBSERVATIONS: 2177  
 TOTAL NUMBER OF MISSING OBSERVATIONS: 7  
 PERCENT DATA RECOVERY FOR THIS PERIOD: 99.7 %  
 MEAN WIND SPEED FOR THIS PERIOD: 8.9 MPH  
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.14	.51	1.79	56.34	27.01	12.82	1.10

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	0	0	1	1	0	0	0	0	0	0	0	0	0	0
B	5	2	2	1	0	1	0	0	1	0	0	0	0	0	0	0	0
C	10	3	2	0	1	1	2	8	3	0	0	0	3	2	1	3	0
D	76	65	26	33	31	45	29	29	52	80	123	89	178	209	99	68	1
E	74	26	22	32	34	33	32	36	32	28	62	31	63	60	22	28	3
F	16	23	18	12	15	11	16	18	20	17	17	20	22	27	18	5	4
G	0	0	0	0	0	2	6	3	2	9	1	0	0	0	0	1	0
TOTAL	141	119	71	77	81	94	86	94	110	144	203	140	266	298	140	105	8



Beaver Valley  
Joint Frequency Distribution Tables  
for  
Batch Releases

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

Second Quarter 1989

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES

SITE IDENTIFIER: DL8V2

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY CLASS A  
 BETWEEN 150.0 AND 35.0 FEET

STABILITY BASED ON: DELTA T  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .75 MPH

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

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	3	0	1	1	2	1	8
7.51-12.50	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	1	4	0	1	1	4	1	12

STABILITY CLASS B  
 BETWEEN 150.0 AND 35.0 FEET

STABILITY BASED ON: DELTA T  
 WIND MEASURED AT: 35.0 FEET  
 WIND THRESHOLD AT: .75 MPH

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

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

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES

SIT: IDENTIFIER: DLBVZ

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.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	1	0	1	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	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	3	1	0	1	0	0	0	0	0	1	0	1	0	0	0	2	9
.76- 3.50	3	1	0	0	0	0	0	0	0	0	1	0	2	2	0	0	6
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	3	2	0	1	0	0	0	0	0	1	1	1	2	2	0	2	15

PROGRAM: JFD VERSION: PC-1.0

BEAR R. VALLEY JFD - GROUND LEVEL BATCH RELEASES

SITE IDENTIFIER: DL0VZ

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY CLASS E

STABILITY CLASS E

STABILITY BASED ON: DELTA T

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	1	2	1	0	0	1	1	0	0	0
.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6
3.51- 7.50	1	0	0	0	0	0	0	0	0	1	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	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	0	0	1	2	2	0	0	1	1	0	1	9

STABILITY CLASS F

STABILITY CLASS F

STABILITY BASED ON: DELTA T

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	0	0
.76- 3.50	0	0	1	0	0	0	4	0	0	0	0	0	0	0	0	0	9
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	1	0	0	0	4	2	0	1	1	0	0	0	0	0	9

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES

SITE IDENTIFIER: DLBVZ

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	4	5	3	0	0	0	0	0	0	0	0	0
.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	4	5	3	0	0	0	0	0	0	0	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: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	3	1	1	1	0	4	9	6	2	3	1	1	1	1	2	2	0
.76- 3.50	1	1	0	0	0	0	0	0	0	1	4	1	4	4	2	2	38
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	1	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	4	2	1	1	0	4	9	6	2	5	6	2	5	5	4	4	60

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASES

SITE IDENTIFIER: DLBVZ

DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 150.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 60

TOTAL NUMBER OF VALID OBSERVATIONS: 60

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 3.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES						
A	B	C	D	E	F	G
20.00	1.67	3.33	25.00	15.00	15.00	20.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY																	
	H	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	1	4	0	1	1	4	1	0
B	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
D	3	2	0	1	0	0	0	0	0	1	1	1	2	2	0	2	0
E	1	0	0	0	0	0	0	1	2	2	0	0	1	1	0	1	0
F	0	0	1	0	0	0	4	2	0	1	1	0	0	0	0	0	0
G	0	0	0	0	0	4	5	3	0	0	0	0	0	0	0	0	0
TOTAL	4	2	1	1	0	4	9	6	2	5	6	2	5	4	4	1	6



PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.76- 3.50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	1
7.51-12.50	2	1	1	0	0	1	1	1	0	0	0	0	0	0	1	0	8
12.51-18.50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	2	2	0	1	1	1	2	0	0	0	0	1	0	1	2	16

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH  
 JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.76- 3.50	3	1	1	1	1	3	1	0	1	1	2	4	1	1	1	1	23
3.51- 7.50	2	1	0	1	5	4	2	2	3	2	3	7	5	6	6	2	51
7.51-12.50	5	6	3	0	1	4	2	1	4	3	4	9	13	18	9	9	96
12.51-18.50	6	2	0	0	0	0	0	0	0	3	16	5	17	8	3	3	63
18.51-24.00	0	0	0	0	0	0	0	0	0	1	2	0	1	2	0	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	16	10	4	2	7	11	5	3	8	10	32	25	37	35	19	15	239



PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

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

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.76- 3.50	1	1	2	0	2	1	1	2	1	2	0	1	6	0	0	1	21
3.51- 7.50	2	0	0	2	2	4	2	2	6	4	6	3	4	2	1	1	33
7.51-12.50	2	0	0	0	0	0	0	1	7	4	4	2	1	1	1	2	25
12.51-18.50	3	0	0	0	0	0	1	0	2	0	6	0	0	1	1	1	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	1	2	2	4	5	4	5	10	10	19	6	11	4	3	5	99

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

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

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.76- 3.50	0	2	1	0	1	1	1	2	0	0	1	0	2	0	0	0	11
3.51- 7.50	1	1	4	1	0	1	1	1	2	3	1	2	3	3	1	0	25
7.51-12.50	0	0	0	0	0	2	4	0	1	6	3	0	0	3	1	0	20
12.51-18.50	0	0	0	0	0	0	3	2	0	1	0	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	1	3	5	1	1	4	9	5	3	10	5	2	5	6	2	0	62

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
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	6	0	0	0	0	0	0	6

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET

WIND MEASURED AT: 500.0 FEET

WIND THRESHOLD AT: .75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
.76- 3.50	4	5	4	1	4	5	3	4	2	3	3	5	9	1	1	2	56
3.51- 7.50	6	4	5	4	8	10	6	6	6	11	8	12	13	11	8	4	122
7.51-12.50	10	7	6	0	1	8	7	3	12	17	16	11	14	22	12	11	157
12.51-18.50	10	2	1	0	0	0	4	2	2	4	22	5	17	9	4	5	87
18.51-24.00	0	0	0	0	0	0	0	0	0	1	7	0	1	2	0	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	30	18	16	5	13	23	20	15	22	36	56	33	54	45	25	22	433

PROGRAM: JFD VERSION: PC-1.0

BEAVER VALLEY JFD - ELEVATED BATCH RELEASES  
 SITE IDENTIFIER: DLBVZ  
 DATA PERIOD EXAMINED: 4/ 1/89 - 6/30/89

\*\*\* SECOND QUARTER 1989 \*\*\*

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 35.0 FEET  
 WIND MEASURED AT: 500.0 FEET  
 WIND THRESHOLD AT: .75 MPH

TOTAL NUMBER OF OBSERVATIONS: 437  
 TOTAL NUMBER OF VALID OBSERVATIONS: 433  
 TOTAL NUMBER OF MISSING OBSERVATIONS: 4  
 PERCENT DATA RECOVERY FOR THIS PERIOD: 99.1 %  
 MEAN WIND SPEED FOR THIS PERIOD: 9.0 MPH  
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES						
A	B	C	D	E	F	G
.69	1.85	3.70	55.20	22.86	14.32	1.39

	DISTRIBUTION OF WIND DIRECTION VS STABILITY																
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	WWM	CALM
A	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
B	2	2	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0
C	3	2	2	0	1	1	1	2	0	0	0	0	1	0	1	2	0
D	16	10	4	2	7	11	5	3	8	10	32	25	37	35	19	15	0
E	8	1	2	2	4	5	4	5	10	10	19	6	11	4	3	5	0
F	1	3	5	1	1	4	9	5	3	10	5	2	5	6	2	0	0
G	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
TOTAL	30	18	16	5	13	23	20	15	22	36	56	33	54	45	25	22	0

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

Second Quarter 1989

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 150-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)	
89	4	25	1	2.4	156.	99.9	-	2.1	250.	99.9	-	4.0	46.	99.9	-	43.5	29.2	4.7	7.2	7.2	F
89	4	25	2	1.2	146.	99.9	-	.9	227.	99.9	-	2.7	80.	99.9	-	41.3	28.2	4.5	5.8	5.8	F
89	4	25	3	1.1	109.	99.9	-	2.0	77.	99.9	-	3.4	157.	99.9	-	40.8	27.8	3.0	7.0	7.0	F
89	4	25	4	1.4	136.	99.9	-	2.4	37.	99.9	-	3.2	82.	99.9	-	38.5	28.3	3.5	6.5	6.5	F
89	4	25	5	1.2	155.	99.9	-	1.3	8.	99.9	-	4.5	132.	99.9	-	37.4	26.9	3.4	9.6	9.6	F
89	4	25	6	2.1	156.	99.9	-	3.3	207.	99.9	-	5.0	162.	99.9	-	36.7	26.0	3.9	8.7	8.7	F
89	4	25	7	1.6	136.	99.9	-	1.4	329.	99.9	-	3.6	228.	99.9	-	36.8	27.2	2.2	10.6	10.6	G
89	4	25	8	2.1	64.	99.9	-	2.9	55.	99.9	-	5.9	89.	99.9	-	42.0	31.1	-4.4	4.5	4.5	F
89	4	25	9	1.2	289.	99.9	-	1.4	105.	99.9	-	3.7	100.	99.9	-	47.5	34.0	-1.1	1.9	1.9	E
89	4	25	10	2.8	6.	99.9	-	4.2	38.	99.9	-	6.9	86.	99.9	-	53.8	31.6	-4.4	.3	.3	E
89	4	25	11	3.8	348.	99.9	-	3.7	13.	99.9	-	2.9	119.	99.9	-	58.1	29.1	.0	.0	.0	E
89	4	25	12	1.3	270.	99.9	-	1.6	127.	99.9	-	1.7	327.	99.9	-	57.6	34.0	.8	.8	.8	E
89	4	25	13	3.7	192.	99.9	-	7.0	212.	99.9	-	8.9	173.	99.9	-	50.2	46.3	.4	.4	.4	E
89	4	25	14	3.9	224.	99.9	-	6.0	210.	99.9	-	11.4	189.	99.9	-	54.4	45.0	-6.6	-1.9	-1.9	D
89	4	25	15	3.4	30.	99.9	-	5.1	53.	99.9	-	4.9	58.	99.9	-	58.8	46.8	-8.8	-2.6	-2.6	D
89	4	25	16	3.3	358.	99.9	-	3.9	20.	99.9	-	3.8	49.	99.9	-	60.4	47.1	-5.5	-1.2	-1.2	E
89	4	25	17	2.2	353.	99.9	-	2.5	22.	99.9	-	3.6	72.	99.9	-	62.7	48.5	-4.7	-1.2	-1.2	E
89	5	6	18	7.2	294.	99.9	-	14.4	293.	99.9	-	21.0	296.	99.9	-	45.6	42.1	-7.0	-3.0	-3.0	D
89	5	7	9	4.2	12.	99.9	-	6.3	3.	99.9	-	9.7	349.	99.9	-	36.5	34.3	-6.6	-2.7	-2.7	D
89	5	7	10	5.5	267.	99.9	-	9.3	279.	99.9	-	10.9	287.	99.9	-	37.2	34.3	-8.8	-3.0	-3.0	D
89	5	8	12	5.8	294.	99.9	-	10.3	290.	99.9	-	12.8	284.	99.9	-	49.1	38.7	-9.9	-3.0	-3.0	D
89	5	8	13	6.0	287.	99.9	-	10.1	292.	99.9	-	12.9	291.	99.9	-	51.0	39.1	-1.2	A	-3.4	D
89	5	8	14	5.7	315.	99.9	-	8.4	309.	99.9	-	10.1	304.	99.9	-	53.6	40.2	-1.4	A	-3.6	D
89	5	8	15	5.7	312.	99.9	-	10.6	303.	99.9	-	12.5	296.	99.9	-	56.5	39.0	-1.3	A	-3.4	D
89	5	8	16	6.4	293.	99.9	-	11.5	290.	99.9	-	15.3	291.	99.9	-	58.1	35.0	-1.0	C	-3.2	D
89	5	8	17	6.2	279.	99.9	-	11.0	285.	99.9	-	15.4	287.	99.9	-	57.6	36.0	-7.7	D	-2.8	D
89	5	18	21	.9	128.	99.9	-	1.9	23.	99.9	-	4.1	179.	99.9	-	67.7	51.7	3.1	G	9.5	F
89	5	18	22	1.2	137.	99.9	-	1.0	12.	99.9	-	4.5	120.	99.9	-	63.3	53.1	3.7	G	11.2	G
89	5	18	23	1.0	115.	99.9	-	1.7	12.	99.9	-	6.1	126.	99.9	-	60.5	52.2	4.4	G	11.8	G
89	5	18	24	.8	115.	99.9	-	1.5	36.	99.9	-	11.4	135.	99.9	-	58.6	52.4	2.9	G	11.9	G
89	5	19	1	.9	114.	99.9	-	2.1	50.	99.9	-	14.2	146.	99.9	-	56.7	52.1	3.3	G	11.9	G
89	5	26	5	3.6	5.	99.9	-	5.5	22.	99.9	-	3.6	201.	99.9	-	64.8	64.8	.0	E	.2	E
89	5	26	6	9.4	201.	99.9	-	16.9	200.	99.9	-	31.8	202.	99.9	-	69.2	67.6	-2.1	A	-2.7	D
89	5	26	7	8.2	224.	99.9	-	11.2	234.	99.9	-	18.1	240.	99.9	-	68.8	66.0	-2.7	A	-2.8	D
89	5	26	8	5.9	216.	99.9	-	9.1	222.	99.9	-	14.4	237.	99.9	-	68.0	66.1	-1.6	A	-1.6	D
89	5	26	9	4.0	217.	99.9	-	6.3	229.	99.9	-	10.2	244.	99.9	-	68.0	66.5	-1.4	A	-1.9	D
89	6	1	8	2.4	204.	99.9	-	3.6	201.	99.9	-	2.7	226.	99.9	-	72.3	68.3	.0	E	-1.1	E
89	6	1	9	2.8	204.	99.9	-	4.1	187.	99.9	-	6.0	198.	99.9	-	74.7	68.9	-1.1	B	-3.0	D
89	6	1	10	3.8	277.	99.9	-	5.9	266.	99.9	-	8.6	257.	99.9	-	77.7	69.1	-1.0	C	-3.1	D
89	6	1	11	3.8	250.	99.9	-	5.2	255.	99.9	-	7.1	251.	99.9	-	80.0	69.6	-1.4	A	-3.5	D
89	6	1	12	7.4	225.	99.9	-	9.2	230.	99.9	-	11.8	229.	99.9	-	84.9	65.8	-1.4	A	-3.5	D
89	6	1	13	6.9	262.	99.9	-	11.8	265.	99.9	-	15.8	261.	99.9	-	84.9	65.8	-1.4	A	-3.5	D
89	6	22	1	1.8	45.	99.9	-	3.9	135.	99.9	-	11.2	171.	99.9	-	88.4	68.4	1.8	F	1.0	E
89	6	23	21	1.0	135.	99.9	-	1.5	185.	99.9	-	3.8	17.	99.9	-	74.2	71.2	2.5	F	3.5	E
89	6	23	22	1.0	139.	99.9	-	1.3	154.	99.9	-	4.2	335.	99.9	-	70.5	70.0	2.8	G	5.4	F
89	6	23	23	1.1	233.	99.9	-	1.0	64.	99.9	-	5.1	14.	99.9	-	69.2	69.0	1.6	F	5.6	F
89	6	23	24	1.4	142.	99.9	-	2.1	219.	99.9	-	3.7	45.	99.9	-	67.4	67.4	1.5	F	6.6	F
89	6	24	1	1.0	125.	99.9	-	3.6	210.	99.9	-	1.5	39.	99.9	-	65.9	65.9	2.0	F	5.7	F

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 150-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	DELTA T SC (F)	RAIR FALL SC(IN)		
89	6	24	2	1.4	157.	99.9	-	4.3	215.	99.9	-	4.5	286.	99.9	-	64.9	64.9	64.9	1.8	F	4.3	F	.00
89	6	24	3	1.5	165.	99.9	-	3.6	219.	99.9	-	6.1	302.	99.9	-	64.2	64.2	64.2	1.6	F	3.8	E	.00
89	6	24	4	1.3	203.	99.9	-	1.5	253.	99.9	-	3.8	351.	99.9	-	63.2	63.2	63.2	1.0	F	4.7	F	.00
89	6	24	5	1.4	175.	99.9	-	2.6	225.	99.9	-	3.0	329.	99.9	-	62.5	62.5	62.5	.3	E	4.4	F	.00
89	6	24	6	1.3	162.	99.9	-	2.0	245.	99.9	-	1.4	309.	99.9	-	62.0	62.0	62.0	.3	E	4.1	F	.00
89	6	24	7	1.5	185.	99.9	-	1.5	255.	99.9	-	1.7	296.	99.9	-	62.3	62.3	62.3	-.1	E	3.7	E	.00
89	6	24	8	1.3	242.	99.9	-	1.6	241.	99.9	-	2.8	300.	99.9	-	63.8	63.8	63.8	-.4	D	2.4	E	.00
89	6	24	9	1.7	320.	99.9	-	1.0	242.	99.9	-	3.9	57.	99.9	-	68.0	66.0	66.0	-1.5	A	1.9	E	.00
89	6	24	10	1.4	344.	99.9	-	1.8	2.	99.9	-	2.8	41.	99.9	-	74.7	65.9	65.9	-.9	D	-.9	E	.00
89	6	24	11	2.4	332.	99.9	-	2.6	353.	99.9	-	3.8	20.	99.9	-	79.4	64.4	64.4	-.9	D	-2.6	D	.00
89	6	24	12	2.6	309.	99.9	-	3.0	320.	99.9	-	2.7	25.	99.9	-	82.4	64.5	64.5	-1.7	A	-3.5	D	.00
89	6	24	13	3.9	346.	99.9	-	6.7	360.	99.9	-	7.7	353.	99.9	-	84.5	64.1	64.1	-1.9	A	-4.3	C	.00

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

Second Quarter 1989

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

-----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)	POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	DELTA T SC (F)	RAIN FALL SC(IN)	
89	4	4	11	10.9	226.	99.9	-	14.2	230.	99.9	-	19.4	231.	99.9	-	62.9	54.7	-3 E	-1.8 D	-3 E	-1.8 D	.00
89	4	4	12	8.9	217.	99.9	-	12.4	226.	99.9	-	18.6	231.	99.9	-	62.6	55.4	-4 D	-2.1 D	-4 D	-2.1 D	.00
89	4	4	13	9.7	223.	99.9	-	12.4	224.	99.9	-	16.1	226.	99.9	-	64.0	55.3	-7 D	-2.3 D	-7 D	-2.3 D	.01
89	4	4	14	5.2	285.	99.9	-	10.9	284.	99.9	-	13.6	279.	99.9	-	56.9	54.7	-6 D	-2.2 D	-6 D	-2.2 D	.13
89	4	4	15	3.9	303.	99.9	-	7.0	300.	99.9	-	8.5	295.	99.9	-	60.3	53.1	-5 D	-2.1 D	-5 D	-2.1 D	.00
89	4	4	16	3.4	281.	99.9	-	6.5	282.	99.9	-	7.3	294.	99.9	-	61.7	49.7	-1 E	-1.8 D	-1 E	-1.8 D	.00
89	4	4	17	2.5	245.	99.9	-	4.6	267.	99.9	-	6.5	284.	99.9	-	60.5	49.8	-1 E	-2.1 D	-1 E	-2.1 D	.00
89	4	4	18	1.3	160.	99.9	-	2.3	189.	99.9	-	4.3	287.	99.9	-	56.4	53.4	-3 E	-5 E	-3 E	-5 E	.01
89	4	4	19	2.5	254.	99.9	-	4.0	230.	99.9	-	4.0	213.	99.9	-	54.6	54.4	-3 E	-4 E	-3 E	-4 E	.02
89	4	4	20	2.1	67.	99.9	-	2.8	104.	99.9	-	1.7	192.	99.9	-	53.5	53.5	-7 E	-1.2 E	-7 E	-1.2 E	.03
89	4	4	21	2.4	280.	99.9	-	6.4	292.	99.9	-	9.9	295.	99.9	-	52.7	52.7	-3 E	-8 E	-3 E	-8 E	.05
89	4	4	22	1.3	187.	99.9	-	2.5	217.	99.9	-	2.8	257.	99.9	-	52.0	50.7	-0 E	-1.8 D	-0 E	-1.8 D	.05
89	4	4	23	1.7	43.	99.9	-	5.4	164.	99.9	-	10.4	170.	99.9	-	51.0	50.5	-1 E	-5 E	-1 E	-5 E	.03
89	4	4	24	1.6	176.	99.9	-	4.7	167.	99.9	-	12.4	169.	99.9	-	51.0	49.7	-0 E	-8 E	-0 E	-8 E	.00
89	4	5	1	2.7	215.	99.9	-	4.4	203.	99.9	-	10.9	178.	99.9	-	50.9	49.9	-1 E	-1.4 D	-1 E	-1.4 D	.00
89	4	16	15	5.2	304.	99.9	-	8.4	303.	99.9	-	6.7	308.	99.9	-	60.8	30.2	-1.2 A	-0 E	-1.2 A	-0 E	.00
89	4	16	16	6.1	256.	99.9	-	8.2	258.	99.9	-	9.9	284.	99.9	-	62.5	29.8	-1.2 A	-2.6 D	-1.2 A	-2.6 D	.00
89	4	16	17	5.8	257.	99.9	-	8.5	266.	99.9	-	9.6	275.	99.9	-	62.9	30.0	-1.2 A	-1.9 D	-1.2 A	-1.9 D	.00
89	4	16	18	4.4	257.	99.9	-	6.5	267.	99.9	-	8.9	266.	99.9	-	63.4	30.3	-9 D	-2.2 D	-9 D	-2.2 D	.00
89	4	16	19	5.3	219.	99.9	-	7.2	226.	99.9	-	8.3	237.	99.9	-	63.3	28.7	-6 D	-2.2 D	-6 D	-2.2 D	.00
89	4	16	20	3.0	184.	99.9	-	7.0	216.	99.9	-	8.8	241.	99.9	-	59.2	31.7	-2.0 F	-0 E	-2.0 F	-0 E	.00
89	4	16	21	1.2	129.	99.9	-	7.2	191.	99.9	-	12.2	228.	99.9	-	52.2	34.0	-4.4 G	7.1	-4.4 G	7.1	.00
89	4	16	22	1.1	118.	99.9	-	1.5	32.	99.9	-	10.4	216.	99.9	-	48.4	34.7	-3.5 G	9.7 F	-3.5 G	9.7 F	.00
89	4	16	23	1.6	131.	99.9	-	1.3	95.	99.9	-	5.4	214.	99.9	-	45.3	34.4	-3.8 G	9.7 F	-3.8 G	9.7 F	.00
89	4	16	24	.8	167.	99.9	-	2.3	11.	99.9	-	7.6	212.	99.9	-	43.0	33.9	-3.9 G	11.6 G	-3.9 G	11.6 G	.00
89	4	17	1	.0	107.	99.9	-	1.0	280.	99.9	-	7.1	213.	99.9	-	40.9	33.7	-4.1 G	11.9 G	-4.1 G	11.9 G	.00
89	4	17	2	1.8	125.	99.9	-	3.5	33.	99.9	-	5.9	197.	99.9	-	39.4	33.4	-3.6 G	11.9 G	-3.6 G	11.9 G	.00
89	4	17	3	1.1	140.	99.9	-	1.9	43.	99.9	-	7.6	202.	99.9	-	38.2	33.4	-3.4 G	11.9 G	-3.4 G	11.9 G	.00
89	5	4	3	.9	130.	99.9	-	1.4	358.	99.9	-	4.2	239.	99.9	-	35.3	35.3	-2.9 G	7.9 F	-2.9 G	7.9 F	.00
89	5	5	21	2.6	25.	99.9	-	1.6	123.	99.9	-	11.4	175.	99.9	-	54.7	52.9	-1 E	-3 E	-1 E	-3 E	.03
89	5	5	22	2.8	245.	99.9	-	7.0	265.	99.9	-	11.5	265.	99.9	-	54.6	53.5	-4 E	-8 E	-4 E	-8 E	.00
89	5	6	14	2.3	317.	99.9	-	5.9	305.	99.9	-	7.1	285.	99.9	-	51.1	45.3	-1.0 C	-3.1 D	-1.0 C	-3.1 D	.00
89	5	6	15	3.9	323.	99.9	-	8.6	307.	99.9	-	8.7	294.	99.9	-	52.8	40.8	-1.1 B	-3.1 D	-1.1 B	-3.1 D	.00
89	5	6	16	2.6	277.	99.9	-	3.1	290.	99.9	-	3.2	311.	99.9	-	53.7	40.0	-6 D	-2.6 D	-6 D	-2.6 D	.00
89	5	6	17	4.4	299.	99.9	-	9.7	294.	99.9	-	14.5	286.	99.9	-	48.1	44.1	-1 E	-1.5 D	-1 E	-1.5 D	.10
89	5	6	18	7.2	294.	99.9	-	14.4	293.	99.9	-	21.0	296.	99.9	-	45.6	42.1	-7 D	-3.0 D	-7 D	-3.0 D	.00
89	5	6	19	7.0	299.	99.9	-	14.4	295.	99.9	-	19.1	294.	99.9	-	42.7	39.0	-8 D	-2.9 D	-8 D	-2.9 D	.00
89	5	6	20	6.9	325.	99.9	-	11.3	311.	99.9	-	15.1	309.	99.9	-	41.6	37.0	-5 D	-2.5 D	-5 D	-2.5 D	.00
89	5	6	21	4.2	272.	99.9	-	7.3	286.	99.9	-	8.2	293.	99.9	-	41.9	37.3	-6 D	-2.6 D	-6 D	-2.6 D	.00
89	5	6	22	5.5	314.	99.9	-	11.5	300.	99.9	-	17.0	299.	99.9	-	41.8	36.1	-5 D	-2.5 D	-5 D	-2.5 D	.00
89	5	8	6	9.2	253.	99.9	-	14.7	266.	99.9	-	19.6	270.	99.9	-	43.6	35.2	-4 D	-2.3 D	-4 D	-2.3 D	.00
89	5	8	6	6.7	275.	99.9	-	11.8	277.	99.9	-	16.0	277.	99.9	-	43.8	35.3	-5 D	-2.4 D	-5 D	-2.4 D	.00
89	5	9	10	2.6	28.	99.9	-	4.4	72.	99.9	-	6.6	101.	99.9	-	51.9	43.5	-6 D	-2.4 D	-6 D	-2.4 D	.00
89	5	9	11	2.9	33.	99.9	-	5.1	69.	99.9	-	5.1	100.	99.9	-	54.2	43.5	-5 D	-2.4 D	-5 D	-2.4 D	.00
89	5	9	12	2.8	146.	99.9	-	5.2	141.	99.9	-	5.3	156.	99.9	-	57.1	42.6	-9 D	-2.8 D	-9 D	-2.8 D	.00
89	5	9	13	2.0	115.	99.9	-	2.9	99.	99.9	-	3.9	105.	99.9	-	56.9	43.6	-6 D	-2.7 D	-6 D	-2.7 D	.00
89	5	11	4	3.1	17.	99.9	-	7.3	18.	99.9	-	14.2	21.	99.9	-	46.6	45.3	-1 E	-2.5 D	-1 E	-2.5 D	.01
89	5	11	5	2.2	353.	99.9	-	5.3	5.	99.9	-	12.8	10.	99.9	-	46.8	45.8	-0 E	-2.3 D	-0 E	-2.3 D	.01



PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

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

YR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
89	5	11	6	5.3	341.	99.9	-	8.5	345.	99.9	-	14.9	357.	99.9	-	46.9	45.4	-3.5	-2.8	.05
89	5	11	7	3.7	344.	99.9	-	7.6	9.	99.9	-	13.3	357.	99.9	-	45.4	42.3	-3.0	-3.3	.01
89	5	11	8	5.4	340.	99.9	-	8.1	353.	99.9	-	14.3	353.	99.9	-	44.5	41.4	-3.0	-3.3	.04
89	5	11	9	4.7	345.	99.9	-	6.6	348.	99.9	-	11.6	348.	99.9	-	44.4	41.2	-3.2	-3.3	.01
89	5	11	10	4.6	359.	99.9	-	7.6	6.	99.9	-	14.2	360.	99.9	-	45.4	41.7	-3.7	-3.7	.00
89	5	11	11	6.3	337.	99.9	-	8.4	343.	99.9	-	14.7	348.	99.9	-	46.6	41.7	-4.9	-3.9	.02
89	5	11	12	7.0	359.	99.9	-	11.7	6.	99.9	-	14.1	356.	99.9	-	47.6	42.2	-5.4	-4.2	.01
89	5	16	14	4.5	308.	99.9	-	6.9	319.	99.9	-	8.5	333.	99.9	-	56.7	51.9	-15.8	-2.7	.00
89	5	16	15	2.8	296.	99.9	-	5.0	311.	99.9	-	7.1	321.	99.9	-	57.6	52.4	-5.2	-2.4	.00
89	5	16	16	4.9	302.	99.9	-	8.6	296.	99.9	-	10.2	310.	99.9	-	60.6	53.0	-7.6	-2.8	.00
89	5	16	17	5.8	289.	99.9	-	9.8	289.	99.9	-	13.0	297.	99.9	-	62.4	53.1	-9.3	-2.9	.00
89	5	16	18	5.9	289.	99.9	-	10.2	299.	99.9	-	12.4	304.	99.9	-	64.2	52.9	-11.3	-2.8	.00
89	5	16	19	5.4	315.	99.9	-	9.1	315.	99.9	-	15.7	326.	99.9	-	64.2	52.5	-12.7	-2.2	.00
89	5	16	20	4.3	312.	99.9	-	6.9	319.	99.9	-	13.8	336.	99.9	-	63.6	52.7	-10.9	-1.8	.00
89	5	16	21	3.2	286.	99.9	-	5.7	307.	99.9	-	13.2	331.	99.9	-	61.7	51.8	-10.9	-1.3	.00
89	5	16	22	2.5	252.	99.9	-	5.2	297.	99.9	-	11.7	338.	99.9	-	59.6	50.9	-8.7	-1.0	.00
89	5	16	23	1.7	121.	99.9	-	3.4	323.	99.9	-	13.1	350.	99.9	-	58.3	50.9	-7.4	-1.0	.00
89	5	16	24	2.0	146.	99.9	-	3.2	252.	99.9	-	7.9	346.	99.9	-	56.1	50.9	-5.9	-1.0	.00
89	5	17	1	2.6	199.	99.9	-	4.2	255.	99.9	-	5.1	320.	99.9	-	54.4	50.9	-3.9	-1.8	.00
89	5	17	2	.7	163.	99.9	-	3.6	281.	99.9	-	4.9	358.	99.9	-	50.5	50.0	-0.5	3.9	.00
89	5	17	3	1.3	139.	99.9	-	4.5	272.	99.9	-	5.0	344.	99.9	-	50.0	49.8	-0.2	3.5	.00
89	5	17	4	.8	167.	99.9	-	2.7	260.	99.9	-	6.3	10.	99.9	-	50.8	50.3	-0.5	3.1	.00
89	5	23	11	2.8	29.	99.9	-	6.2	67.	99.9	-	9.7	102.	99.9	-	59.3	59.3	-0.0	-1.7	.18
89	5	23	12	3.4	47.	99.9	-	7.3	74.	99.9	-	10.5	105.	99.9	-	62.7	62.2	-0.5	-2.5	.01
89	5	23	13	3.8	93.	99.9	-	6.3	104.	99.9	-	10.9	130.	99.9	-	64.8	62.0	-2.8	-3.3	.00
89	5	23	14	3.9	197.	99.9	-	6.5	201.	99.9	-	11.3	209.	99.9	-	63.6	60.9	-2.7	-2.5	.01
89	5	23	15	4.6	197.	99.9	-	8.6	195.	99.9	-	14.4	192.	99.9	-	64.7	60.1	-4.6	-2.9	.00
89	5	23	16	7.2	213.	99.9	-	9.8	216.	99.9	-	14.0	209.	99.9	-	63.0	57.2	-6.8	-2.6	.00
89	5	23	17	7.3	228.	99.9	-	9.4	228.	99.9	-	14.4	221.	99.9	-	60.7	57.1	-3.6	-2.5	.00
89	5	23	18	3.8	178.	99.9	-	7.0	185.	99.9	-	10.9	197.	99.9	-	60.6	55.7	-5.0	-2.3	.02
89	5	23	20	2.8	186.	99.9	-	5.4	181.	99.9	-	10.5	184.	99.9	-	58.9	55.6	-3.3	-2.1	.00
89	5	23	21	4.6	181.	99.9	-	8.4	179.	99.9	-	10.5	188.	99.9	-	58.4	55.3	-3.1	-2.2	.00
89	5	23	22	1.1	152.	99.9	-	2.6	170.	99.9	-	6.3	178.	99.9	-	57.8	55.5	-2.3	-2.2	.00
89	5	23	23	.9	318.	99.9	-	1.5	219.	99.9	-	3.3	198.	99.9	-	57.5	55.6	-2.0	-2.3	.00
89	5	23	24	.9	190.	99.9	-	1.2	242.	99.9	-	2.9	254.	99.9	-	57.1	55.9	-1.6	-2.2	.00
89	5	24	1	1.1	114.	99.9	-	1.9	155.	99.9	-	1.5	2.	99.9	-	56.6	56.6	-0.0	-1.8	.00
89	5	24	2	.9	261.	99.9	-	1.8	308.	99.9	-	4.4	326.	99.9	-	57.1	56.2	-0.5	-1.9	.00
89	5	24	3	2.4	297.	99.9	-	5.4	306.	99.9	-	9.0	300.	99.9	-	56.5	56.4	-0.1	-1.8	.00
89	5	24	4	3.5	292.	99.9	-	7.7	297.	99.9	-	9.9	299.	99.9	-	56.5	55.8	-0.7	-2.2	.00
89	5	24	5	3.5	277.	99.9	-	6.4	283.	99.9	-	8.7	292.	99.9	-	55.7	55.7	-0.0	-2.1	.00
89	5	24	6	3.6	284.	99.9	-	7.1	288.	99.9	-	8.8	290.	99.9	-	55.6	55.6	-0.0	-2.1	.00
89	5	24	7	3.7	296.	99.9	-	6.3	295.	99.9	-	9.2	300.	99.9	-	56.1	55.0	-1.1	-2.7	.00
89	5	24	8	3.4	302.	99.9	-	7.4	300.	99.9	-	11.5	303.	99.9	-	56.5	54.4	-2.1	-2.9	.00
89	5	24	9	4.5	291.	99.9	-	8.2	296.	99.9	-	10.2	302.	99.9	-	57.5	53.5	-4.0	-2.6	.00
89	5	24	10	5.0	293.	99.9	-	9.5	300.	99.9	-	11.3	310.	99.9	-	57.7	52.1	-5.6	-2.7	.00
89	5	24	11	5.0	283.	99.9	-	9.3	296.	99.9	-	11.4	297.	99.9	-	59.9	52.9	-7.0	-3.0	.00
89	5	24	12	5.3	286.	99.9	-	9.3	297.	99.9	-	10.2	296.	99.9	-	63.3	52.9	-10.4	-3.3	.00
89	5	24	13	5.9	260.	99.9	-	7.9	270.	99.9	-	10.1	282.	99.9	-	66.3	53.5	-12.8	-3.3	.00

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECCND QUARTER 1989

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

YR MO DY HR	WJ. SPEED (MPH)	WIND DIR (DEG)	STDEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STDEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STDEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STDEV (DEG)	WIND SPEED (MPH)	AMB. TFMP 35F		POINT 35F (F)	DELTA T		RAIN FALL SC(IN)
														(F)	(F)		150-35	500-35	
89 5 24 14	5.0	298.	99.9	9.1	298.	99.9	10.9	288.	99.9	69.8	52.4	-1.4 A	-3.6 D	.00					
89 5 24 15	3.7	302.	99.9	7.1	303.	99.9	7.9	373.	99.9	72.7	49.0	-1.4 A	-3.7 D	.00					
89 5 24 16	4.0	258.	99.9	6.3	269.	99.9	6.8	2	99.9	73.5	50.9	-.8 D	-3.0 D	.00					
89 5 24 17	4.5	290.	99.9	6.1	289.	99.9	7.5	24	99.9	75.2	50.7	-1.0 C	-3.1 D	.00					
89 5 24 18	4.4	302.	99.9	6.6	293.	99.9	9.8	28:	99.9	76.4	51.1	-1.0 C	-2.8 D	.00					
89 5 24 19	3.4	264.	99.9	6.3	273.	99.9	9.0	2	99.9	76.5	51.9	-.6 D	-2.3 D	.00					
89 5 24 20	2.3	176.	99.9	6.6	205.	99.9	9.3	232.	99.9	72.6	56.6	1.7 F	1.2 E	.00					
89 5 24 21	3.0	213.	99.9	3.2	240.	99.9	10.0	210.	99.9	67.5	56.6	.9 E	4.6 F	.00					
89 5 24 22	1.3	127.	99.9	4.2	194.	99.9	2.3	259.	99.9	62.8	56.8	3.3 G	6.1 F	.00					
89 5 24 23	1.2	62.	99.9	4.1	40.	99.9	5.1	180.	99.9	59.5	56.9	2.6 G	9.0 F	.00					
89 5 24 24	1.6	87.	99.9	1.8	14.	99.9	4.4	170.	99.9	57.5	56.4	3.6 G	8.1 F	.00					
89 5 25 1	1.4	111.	99.9	3.3	53.	99.9	9.1	189.	99.9	56.1	55.5	2.5 F	10.2 F	.00					
89 5 25 2	1.3	113.	99.9	2.6	51.	99.9	8.8	210.	99.9	55.2	55.2	1.8 F	10.1 F	.00					
89 5 25 3	1.3	108.	99.9	3.4	53.	99.9	5.7	198.	99.9	54.5	54.5	1.7 F	8.7 F	.00					
89 5 25 4	.9	88.	99.9	1.9	41.	99.9	12.0	209.	99.9	53.2	53.2	2.2 F	10.4 G	.00					
89 5 25 5	1.4	87.	99.9	1.9	42.	99.9	12.1	199.	99.9	52.8	52.8	1.8 F	10.8 G	.00					
89 5 25 6	1.2	85.	99.9	3.1	35.	99.9	11.1	197.	99.9	52.7	52.7	2.9 G	9.1 F	.00					
89 5 25 7	1.1	57.	99.9	3.2	37.	99.9	11.2	201.	99.9	53.7	53.7	4.2 G	8.7 F	.00					
89 5 25 8	2.9	8.	99.9	2.3	160.	99.9	10.9	198.	99.9	61.3	55.4	3.0 G	2.4 E	.00					
89 5 25 9	6.8	198.	99.9	12.1	200.	99.9	21.4	210.	99.9	61.9	58.7	.5 E	-1.8 D	.28					
89 5 25 10	5.0	258.	99.9	9.8	249.	99.9	17.2	237.	99.9	63.4	59.4	-.1 E	-2.2 D	.00					
89 5 25 11	3.4	140.	99.9	7.7	122.	99.9	11.4	98.	99.9	63.0	62.1	-.2 E	-2.2 D	.04					
89 5 25 12	9.3	219.	99.9	11.5	211.	99.9	13.0	197.	99.9	67.7	62.4	-.8 D	-3.7 D	.00					
89 5 25 13	6.1	225.	99.9	9.0	222.	99.9	12.8	225.	99.9	72.3	67.4	-.7 D	-2.8 D	.00					
89 5 25 14	7.7	233.	99.9	9.6	242.	99.9	12.3	239.	99.9	75.9	62.8	-.9 D	-2.9 D	.00					
89 5 25 15	6.6	243.	99.9	8.3	251.	99.9	9.8	236.	99.9	79.3	63.5	-1.1 B	-3.1 D	.00					
89 5 25 16	6.1	232.	99.9	7.6	246.	99.9	9.0	250.	99.9	81.6	64.3	-1.0 C	-3.1 D	.00					
89 5 25 17	6.2	216.	99.9	9.0	232.	99.9	13.0	234.	99.9	81.4	65.5	-.6 D	-2.4 D	.00					
89 5 25 18	5.7	200.	99.9	9.3	216.	99.9	13.0	224.	99.9	79.9	66.5	.0 E	-1.7 D	.00					
89 5 25 19	5.3	196.	99.9	8.6	213.	99.9	12.7	225.	99.9	79.5	67.1	-.1 E	-1.7 D	.00					
89 5 25 20	1.6	166.	99.9	5.9	165.	99.9	10.2	187.	99.9	76.2	69.7	1.5 F	.5 E	.00					
89 5 25 21	1.9	47.	99.9	5.2	151.	99.9	13.2	171.	99.9	73.1	69.6	3.3 G	3.6 E	.00					
89 5 25 22	4.3	193.	99.9	8.7	188.	99.9	15.7	184.	99.9	74.5	69.1	.3 E	-.4 E	.01					
89 5 25 23	4.6	215.	99.9	6.6	220.	99.9	11.8	212.	99.9	72.6	65.4	.0 E	-1.1 E	.00					
89 5 25 24	2.1	142.	99.9	3.2	228.	99.9	6.4	263.	99.9	68.8	67.0	1.1 F	-.3 E	.01					
89 5 26 1	4.6	195.	99.9	7.9	216.	99.9	10.1	225.	99.9	68.3	67.9	-.1	-1.6 D	.40					
89 5 26 2	1.4	58.	99.9	3.8	105.	99.9	4.9	99.	99.9	66.2	66.2	1.1	-1.3 D	.03					
89 5 26 3	1.6	60.	99.9	4.7	80.	99.9	8.4	109.	99.9	65.4	65.4	.0 E	-1.3 D	.00					
89 5 26 4	1.9	20.	99.9	3.9	44.	99.9	5.6	135.	99.9	65.0	64.7	.0 E	-1.7 D	.01					
89 5 26 5	3.6	5.	99.9	5.5	22.	99.9	3.6	201.	99.9	64.8	64.8	.0 E	-.2 E	.41					
89 5 26 10	5.9	227.	99.9	8.4	237.	99.9	12.4	241.	99.9	69.0	66.2	-1.6 A	-2.2 D	.00					
89 5 26 11	9.0	253.	99.9	14.1	266.	99.9	17.0	259.	99.9	72.6	66.2	-1.8 A	-2.5 D	.00					
89 5 26 12	10.1	220.	99.9	13.4	229.	99.9	18.2	230.	99.9	73.1	65.9	-.7 D	-2.7 D	.00					
89 5 26 13	8.1	230.	99.9	11.1	237.	99.9	16.1	238.	99.9	74.6	66.7	-.7 D	-2.6 D	.00					
89 5 26 14	5.9	262.	99.9	10.5	277.	99.9	15.2	273.	99.9	73.7	65.0	-.5 D	-2.2 D	.00					
89 5 26 15	6.6	261.	99.9	10.6	269.	99.9	14.1	271.	99.9	76.0	65.6	-.7 D	-2.4 D	.00					
89 5 26 16	9.1	255.	99.9	14.2	273.	99.9	18.5	272.	99.9	78.1	62.6	-.9 D	-2.9 D	.00					
89 5 26 17	6.3	279.	99.9	12.6	295.	99.9	17.6	287.	99.9	79.5	61.3	-.9 D	-2.9 D	.00					

PROGRAM: LIST VERSION: PC-1.0

## LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1983

```
-----35 FT-----150 FT-----500 FT-----  
VR MO DY HR WIND WIND STD STP WIND WIND STP WIND WIND STD DEW  
SPEED DIR (DEG)SC(DEG) SC (MPH) (DEG)SC (DEG)SC (DEG)SC (DEG)SC  
(MPH) (DEG)SC(DEG) SC (MPH) SPEED DIR (DEG)SC (DEG)SC (DEG)SC (F)  
35F 150-35 500-35 RAIN  
7.4 264. 99.9 - 12.6 276. 99.9 - 17.5 271. 99.9 - 79.2 61.5 -.7 D -2.6 D .00  
89 5 26 18 4.2 280. 99.9 - 8.1 291. 99.9 - 14.2 290. 99.9 - 78.3 61.6 -.4 D -1.9 D .00  
89 5 26 19 3.6 276. 99.9 - 8.2 282. 99.9 - 14.7 286. 99.9 - 77.0 55.5 .0 E -1.2 E .00  
89 5 26 20 1.5 152. 99.9 - 2.3 185. 99.9 - 7.7 283. 99.9 - 68.5 59.4 4.1 G 5.2 F .00  
89 5 26 21 1.6 144. 99.9 - 5.7 210. 99.9 - 6.7 282. 99.9 - 64.1 59.7 3.1 G A.3 F .00  
89 5 26 22 1.5 163. 99.9 - 3.5 234. 99.9 - 7.0 273. 99.9 - 61.7 58.4 2.2 F 8.8 F .00  
89 5 26 23 1.1 146. 99.9 - 4.0 224. 99.9 - 3.8 252. 99.9 - 59.3 58.1 2.9 G 8.3 F .00  
89 5 27 1 2.4 191. 99.9 - 3.8 247. 99.9 - 6.4 275. 99.9 - 59.9 57.6 1.8 F 7.2 F .00  
89 5 27 2 1.6 179. 99.9 - 3.4 239. 99.9 - 9.8 282. 99.9 - 59.0 57.4 1.4 F 7.1 F .00  
89 5 27 3 2.2 181. 99.9 - 4.3 242. 99.9 - 9.2 287. 99.9 - 58.3 57.0 1.5 F 6.9 F .00  
89 5 27 19 5.7 343. 99.9 - 8.0 336. 99.9 - 14.0 327. 99.9 - 61.3 40.8 -.7 D -2.7 D .00  
89 5 27 20 4.3 341. 99.9 - 6.4 341. 99.9 - 11.5 337. 99.9 - 59.8 40.3 -.5 D -2.2 D .00  
89 5 27 21 1.6 9. 99.9 - 2.7 335. 99.9 - 10.3 340. 99.9 - 57.4 40.6 -.1 E -1.5 D .00  
89 5 27 22 2.3 324. 99.9 - 4.9 322. 99.9 - 13.1 324. 99.9 - 56.3 40.2 -.1 E -.6 E .00  
89 5 27 23 1.4 143. 99.9 - 3.4 216. 99.9 - 8.0 312. 99.9 - 49.1 44.1 3.4 G 5.2 F .00  
89 5 27 24 1.6 138. 99.9 - 3.5 210. 99.9 - 7.1 310. 99.9 - 46.6 44.0 3.0 G 6.0 F .00  
89 5 28 1 1.7 151. 99.9 - 2.6 195. 99.9 - 5.3 293. 99.9 - 45.0 43.5 2.0 F 5.1 F .00  
89 5 28 2 1.7 152. 99.9 - 3.7 209. 99.9 - 4.7 288. 99.9 - 43.7 42.6 2.6 G 4.5 F .00  
89 5 28 3 1.9 153. 99.9 - 3.5 210. 99.9 - 4.1 277. 99.9 - 42.2 42.2 2.8 G 4.2 F .00  
89 5 28 4 1.0 136. 99.9 - 1.4 159. 99.9 - 3.3 277. 99.9 - 40.9 40.9 2.5 F 2.7 E .00  
89 5 28 5 1.5 170. 99.9 - 3.2 202. 99.9 - 4.5 260. 99.9 - 41.7 41.7 .6 E -.4 E .00  
89 5 28 6 2.1 172. 99.9 - 1.1 182. 99.9 - 3.1 276. 99.9 - 41.8 41.8 .2 E -.4 E .00  
89 5 28 7 1.4 195. 99.9 - 1.0 182. 99.9 - 3.4 259. 99.9 - 42.0 42.0 .2 E -.4 E .00  
89 5 28 8 1.8 143. 99.9 - 1.7 222. 99.9 - 3.0 277. 99.9 - 44.2 44.2 -.4 D -1.2 E .00  
89 5 29 14 4.3 238. 99.9 - 6.1 241. 99.9 - 6.7 219. 99.9 - 75.0 43.2 -1.3 A -3.3 D .00  
89 5 29 15 4.8 228. 99.9 - 6.6 225. 99.9 - 7.8 225. 99.9 - 76.2 43.0 -1.1 B -3.1 D .00  
89 5 29 16 7.5 235. 99.9 - 9.4 232. 99.9 - 11.4 227. 99.9 - 77.3 38.5 -.8 D -2.8 D .00  
89 5 29 17 4.0 193. 99.9 - 7.3 204. 99.9 - 8.5 212. 99.9 - 77.1 41.8 -.7 D -2.7 D .00  
89 5 29 18 3.0 250. 99.9 - 4.4 244. 99.9 - 8.6 234. 99.9 - 76.5 45.1 -.5 D -2.3 D .00  
89 5 29 19 1.6 201. 99.9 - 3.8 239. 99.9 - 6.1 233. 99.9 - 75.5 51.5 -.1 E -1.8 D .00  
89 5 29 20 2.4 194. 99.9 - 4.0 189. 99.9 - 6.8 218. 99.9 - 73.2 51.6 .9 E -.1 E .00  
89 5 29 21 1.0 346. 99.9 - 4.6 145. 99.9 - 11.6 182. 99.9 - 69.2 57.3 3.5 G 3.1 E .00  
89 5 29 22 1.0 154. 99.9 - 3.3 216. 99.9 - 7.5 210. 99.9 - 65.5 56.7 4.2 G 4.8 F .00  
89 5 29 23 2.3 174. 99.9 - 4.5 202. 99.9 - 9.9 232. 99.9 - 65.8 57.1 2.9 G 4.7 F .00  
89 5 30 1 .8 137. 99.9 - 2.6 198. 99.9 - 10.1 196. 99.9 - 64.8 58.3 3.7 G 3.5 E .00  
89 5 30 2 1.1 86. 99.9 - 4.4 211. 99.9 - 11.8 195. 99.9 - 64.7 57.8 3.8 G 3.5 E .00  
89 5 30 3 1.1 120. 99.9 - 3.7 215. 99.9 - 10.7 195. 99.9 - 62.5 57.1 6.2 G 5.8 F .00  
89 5 30 4 .7 191. 99.9 - 3.6 209. 99.9 - 13.5 213. 99.9 - 62.9 58.1 4.5 G 6.2 F .00  
89 5 30 4 3.3 200. 99.9 - 6.6 219. 99.9 - 13.6 215. 99.9 - 68.0 57.1 2.2 F 1.6 E .00  
89 6 7 13 3.1 243. 99.9 - 4.6 86. 99.9 - 4.4 89. 99.9 - 76.3 55.8 -1.6 A -3.6 D .00  
89 6 7 14 4.1 90. 99.9 - 7.2 96. 99.9 - 9.3 102. 99.9 - 78.7 51.4 -1.9 A -4.2 C .00  
89 6 7 15 3.4 52. 99.9 - 7.0 81. 99.9 - 7.1 93. 99.9 - 79.6 52.0 -2.0 A -4.3 C .00  
89 6 7 16 1.6 153. 99.9 - 3.2 143. 99.9 - 3.3 107. 99.9 - 77.2 54.4 -.6 D -2.1 D .00  
89 6 7 17 3.7 184. 99.9 - 6.5 179. 99.9 - 9.3 185. 99.9 - 75.6 56.0 -.6 D -2.2 D .00  
89 6 7 18 2.3 239. 99.9 - 3.0 265. 99.9 - 3.1 220. 99.9 - 75.0 55.4 -.6 D -2.4 D .00  
89 6 7 19 1.8 286. 99.9 - 1.7 267. 99.9 - 1.4 279. 99.9 - 73.6 59.8 -.2 E -.7 E .00  
89 6 7 20 1.1 29. 99.9 - 2.7 14. 99.9 - 3.3 346. 99.9 - 71.7 61.3 1.0 F .1 E .00  
89 6 7 21 1.1 111. 99.9 - 2.2 78. 99.9 - 3.0 39. 99.9 - 67.8 61.6 1.6 F 3.3 E .00
```

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

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

YR	MO	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC (DEG)	AMB. TEMP (F)	DEV. POINT (F)	DELTA T (F)	DELTA T (F)	RAIN FALL (IN)
89	6	7	22	72	99.9	-	2.2	42	99.9	-	8.0	113	99.9	-	64.6	61.2	1.8	6.3	F .00
89	6	7	23	77	99.9	-	2.5	46	99.9	-	9.8	129	99.9	-	63.7	60.0	1.7	6.0	F .00
89	6	7	24	128	99.9	-	2.7	115	99.9	-	14.2	140	99.9	-	63.3	59.4	4.3	6.4	F .00
89	6	8	1	141	99.9	-	2.1	80	99.9	-	7.8	143	99.9	-	62.1	58.9	2.4	4.6	F .00
89	6	8	2	43	99.9	-	2.8	90	99.9	-	12.6	153	99.9	-	62.2	59.1	2.5	4.0	F .00
89	6	8	3	64	99.9	-	4.7	36	99.9	-	6.7	149	99.9	-	60.4	58.2	3.0	3.6	E .00
89	6	8	4	153	99.9	-	1.2	241	99.9	-	3.0	148	99.9	-	57.0	56.8	2.7	5.9	F .00
89	6	8	5	72	99.9	-	1.7	20	99.9	-	3.0	162	99.9	-	55.7	55.7	2.6	6.6	F .00
89	6	8	6	118	99.9	-	2.4	16	99.9	-	1.9	214	99.9	-	55.7	55.7	1.3	4.8	F .00
89	6	8	7	123	99.9	-	1.7	41	99.9	-	4.8	133	99.9	-	56.5	56.5	1.0	4.0	F .00
89	6	8	8	266	99.9	-	1.1	11	99.9	-	4.0	61	99.9	-	60.7	59.8	4.0	8.8	E .00
89	6	8	9	52	99.9	-	1.3	4	99.9	-	2.0	288	99.9	-	66.9	58.9	1.0	8.8	E .00
89	6	8	10	294	99.9	-	2.7	317	99.9	-	1.5	55	99.9	-	70.4	59.4	7.0	1.8	D .00
89	6	8	11	355	99.9	-	5.2	23	99.9	-	4.7	70	99.9	-	75.0	59.6	1.3	2.7	D .00
89	6	8	12	181	99.9	-	5.0	135	99.9	-	5.6	123	99.9	-	78.8	54.5	1.6	3.8	D .00
89	6	8	13	71	99.9	-	4.5	61	99.9	-	4.6	114	99.9	-	81.4	53.4	2.1	4.9	A .00
89	6	8	14	213	99.9	-	6.9	197	99.9	-	7.0	174	99.9	-	81.1	54.9	1.7	3.8	D .00
89	6	8	15	95	99.9	-	6.1	115	99.9	-	7.0	124	99.9	-	83.2	56.2	2.4	5.1	A .00
89	6	8	16	122	99.9	-	6.8	126	99.9	-	8.5	137	99.9	-	83.0	55.4	2.0	4.3	C .00
89	6	8	17	157	99.9	-	7.7	154	99.9	-	9.5	149	99.9	-	83.0	53.7	1.9	4.1	C .00
89	6	8	18	127	99.9	-	4.8	143	99.9	-	6.8	150	99.9	-	82.2	56.7	1.2	3.1	D .00
89	6	8	19	143	99.9	-	5.8	170	99.9	-	10.3	173	99.9	-	79.7	60.0	0.0	1.2	E .00
89	6	8	20	143	99.9	-	4.4	162	99.9	-	7.9	156	99.9	-	76.5	62.0	2.2	1.9	E .00
89	6	8	21	132	99.9	-	4.8	55	99.9	-	8.2	138	99.9	-	72.7	63.9	1.6	5.3	F .00
89	6	8	22	105	99.9	-	2.6	53	99.9	-	10.1	113	99.9	-	69.4	61.9	3.2	6.8	F .00
89	6	8	23	99	99.9	-	2.8	102	99.9	-	13.3	145	99.9	-	68.0	61.9	3.7	6.5	F .00
89	6	8	24	48	99.9	-	5.9	121	99.9	-	17.6	150	99.9	-	68.1	61.6	3.3	5.0	F .00
89	6	9	1	40	99.9	-	6.4	128	99.9	-	16.7	141	99.9	-	66.9	61.7	3.7	6.0	F .00
89	6	9	2	69	99.9	-	3.6	32	99.9	-	9.5	129	99.9	-	64.2	61.0	2.4	5.3	F .00
89	6	9	3	95	99.9	-	4.9	34	99.9	-	7.3	117	99.9	-	63.5	60.8	2.4	3.5	E .00
89	6	9	4	112	99.9	-	3.6	38	99.9	-	6.7	145	99.9	-	62.6	60.6	3.1	4.0	F .00
89	6	9	5	101	99.9	-	4.3	56	99.9	-	5.6	147	99.9	-	62.5	60.9	2.0	3.0	E .00
89	6	9	6	99	99.9	-	2.2	73	99.9	-	3.7	89	99.9	-	64.2	61.8	1.0	1.8	E .00
89	6	9	7	105	99.9	-	2.9	51	99.9	-	6.5	103	99.9	-	65.0	63.2	3.0	4.0	F .00
89	6	9	8	108	99.9	-	2.2	65	99.9	-	4.3	104	99.9	-	66.0	63.2	3.0	4.0	F .00
89	6	9	9	32	99.9	-	4.1	36	99.9	-	5.8	110	99.9	-	67.9	62.7	5.7	1.5	D .00
89	6	9	10	61	99.9	-	3.3	80	99.9	-	7.8	128	99.9	-	68.7	65.7	4.0	1.7	D .00
89	6	9	11	45	99.9	-	4.3	76	99.9	-	6.4	101	99.9	-	68.3	67.3	7.0	2.2	D .02
89	6	9	12	361	99.9	-	2.9	311	99.9	-	3.0	242	99.9	-	66.4	66.4	6.0	1.9	D .31
89	6	9	13	18	99.9	-	1.6	64	99.9	-	1.7	55	99.9	-	65.6	65.6	1.0	1.1	E .18
89	6	9	14	247	99.9	-	4.3	263	99.9	-	3.8	274	99.9	-	66.1	66.1	5.0	1.8	D .03
89	6	9	15	280	99.9	-	6.6	299	99.9	-	7.7	325	99.9	-	65.9	65.9	5.0	1.9	D .01
89	6	9	16	314	99.9	-	3.4	15	99.9	-	7.4	356	99.9	-	66.1	66.1	5.0	2.3	D .00
89	6	9	17	305	99.9	-	5.8	311	99.9	-	11.3	328	99.9	-	60.5	64.8	6.0	2.3	D .00
89	6	9	18	309	99.9	-	6.3	313	99.9	-	8.3	317	99.9	-	68.3	64.6	7.0	2.5	D .00
89	6	9	19	270	99.9	-	6.4	290	99.9	-	9.4	295	99.9	-	68.2	64.8	7.0	2.3	D .00
89	6	9	20	304	99.9	-	4.3	276	99.9	-	8.3	275	99.9	-	68.4	65.7	3.0	1.4	D .00
89	6	9	21	147	99.9	-	1.7	166	99.9	-	5.4	192	99.9	-	66.4	65.9	2.0	1.7	E .00

PROGRAM: LIST      VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC(1)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC(2)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	SC(3)	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T (F)	DELTA T (F)	DELTA T (F)	RAIN FALL SC(IN)	
89	6	9	22	6.2	229.	99.9	-	9.8	237.	99.9	-	19.7	233.	99.9	-	66.7	65.4	-.2	E	-.8	E	.07
89	6	9	23	99.9	999.	99.9	-	99.9	999.	99.9	-	99.9	999.	99.9	-	999.9	999.9	999.9	999.9	999.9	-	99.99
89	6	9	24	99.9	999.	99.9	-	99.9	999.	99.9	-	99.9	999.	99.9	-	999.9	999.9	999.9	999.9	999.9	-	99.99
89	6	10	1	99.9	999.	99.9	-	99.9	999.	99.9	-	99.9	999.	99.9	-	999.9	999.9	999.9	999.9	999.9	-	99.99
89	6	10	2	99.9	999.	99.9	-	99.9	999.	99.9	-	99.9	999.	99.9	-	999.9	999.9	999.9	999.9	999.9	-	99.99
89	6	10	3	6.3	258.	99.9	-	12.9	279.	99.9	-	18.0	280.	99.9	-	62.8	59.5	-.3	E	-2.1	D	.00
89	6	10	4	6.1	253.	99.9	-	11.4	279.	99.9	-	15.8	283.	99.9	-	61.1	57.7	-.4	D	-2.3	D	.00
89	6	10	5	6.6	270.	99.9	-	10.7	277.	99.9	-	15.0	272.	99.9	-	59.7	56.5	-.5	D	-2.5	D	.00
89	6	10	6	4.2	283.	99.9	-	7.5	278.	99.9	-	10.6	273.	99.9	-	58.6	55.9	-.5	D	-2.4	D	.00
89	6	10	7	4.6	267.	99.9	-	8.2	278.	99.9	-	11.3	276.	99.9	-	58.3	55.5	-.5	D	-2.4	D	.00
89	6	10	8	6.8	251.	99.9	-	10.9	268.	99.9	-	13.3	267.	99.9	-	57.7	54.9	-.5	D	-2.4	D	.09
89	6	10	9	4.9	262.	99.9	-	9.5	279.	99.9	-	12.3	275.	99.9	-	57.9	54.8	-.7	D	-2.7	D	.00
89	6	10	10	7.4	254.	99.9	-	11.3	267.	99.9	-	13.2	268.	99.9	-	58.3	54.9	-.7	D	-2.7	D	.00
89	6	10	11	6.1	264.	99.9	-	11.2	276.	99.9	-	13.8	268.	99.9	-	58.8	55.1	-.9	D	-3.0	D	.00
89	6	10	12	7.5	260.	99.9	-	12.1	270.	99.9	-	15.1	268.	99.9	-	60.8	55.1	-.8	D	-2.8	D	.00
89	6	10	13	6.1	262.	99.9	-	10.3	276.	99.9	-	13.9	268.	99.9	-	61.2	55.4	-1.0	C	-3.1	D	.00
89	6	10	14	6.8	262.	99.9	-	10.3	272.	99.9	-	13.4	270.	99.9	-	61.3	55.4	-.7	D	-2.7	D	.00
89	6	10	15	7.7	261.	99.9	-	12.6	268.	99.9	-	15.4	263.	99.9	-	61.8	55.4	-.7	D	-2.4	D	.00
89	6	10	16	6.8	253.	99.9	-	10.2	271.	99.9	-	13.8	270.	99.9	-	61.5	55.8	-.6	D	-2.5	D	.00
89	6	11	1	4.3	5.	99.9	-	6.8	19.	99.9	-	8.0	20.	99.9	-	65.8	44.9	-1.3	A	-3.5	D	.00
89	6	11	12	4.1	341.	99.9	-	5.9	352.	99.9	-	7.9	357.	99.9	-	66.2	45.6	-1.3	A	-3.3	D	.00
89	6	11	13	3.5	337.	99.9	-	5.4	335.	99.9	-	5.5	326.	99.9	-	67.3	45.6	-1.2	A	-3.2	D	.00
89	6	11	14	4.2	10.	99.9	-	8.1	15.	99.9	-	8.3	6.	99.9	-	69.4	45.3	-2.0	A	-4.2	C	.00
89	6	11	15	4.7	318.	99.9	-	5.2	335.	99.9	-	6.5	346.	99.9	-	70.5	46.2	-1.5	A	-4.0	C	.00
89	6	11	16	3.3	12.	99.9	-	4.2	336.	99.9	-	5.2	334.	99.9	-	71.2	45.7	-1.5	A	-3.6	D	.00
89	6	11	17	4.4	334.	99.9	-	5.2	328.	99.9	-	5.9	315.	99.9	-	71.7	46.7	-1.3	A	-3.5	D	.00
89	6	11	18	4.0	276.	99.9	-	6.0	281.	99.9	-	6.9	279.	99.9	-	71.9	47.3	-1.4	A	-3.5	D	.00
89	6	11	19	3.3	288.	99.9	-	4.6	288.	99.9	-	5.8	285.	99.9	-	71.7	48.1	-1.1	B	-3.1	D	.00
89	6	11	20	1.6	222.	99.9	-	1.9	217.	99.9	-	2.5	266.	99.9	-	69.5	51.8	-.1	E	-1.3	D	.00
89	6	17	10	5.0	245.	99.9	-	7.3	239.	99.9	-	9.3	233.	99.9	-	63.4	54.6	-.9	D	-2.9	D	.00
89	6	17	11	7.9	240.	99.9	-	10.4	245.	99.9	-	12.1	240.	99.9	-	65.5	50.7	-.9	D	-2.9	D	.00
89	6	17	12	7.8	239.	99.9	-	11.0	245.	99.9	-	13.7	252.	99.9	-	66.6	49.7	-1.0	C	-2.9	D	.00
89	6	17	13	5.4	242.	99.9	-	6.6	234.	99.9	-	10.0	240.	99.9	-	68.3	49.9	-1.1	B	-3.4	D	.00
89	6	17	14	7.6	211.	99.9	-	12.1	219.	99.9	-	14.4	222.	99.9	-	59.2	49.8	-1.3	A	-3.3	D	.00
89	6	17	15	8.4	218.	99.9	-	13.0	212.	99.9	-	16.2	223.	99.9	-	69.9	49.6	-1.3	A	-3.4	D	.00
89	6	17	16	5.4	235.	99.9	-	13.0	229.	99.9	-	16.9	229.	99.9	-	71.5	47.5	-1.2	A	-3.4	D	.00
89	6	17	17	9.4	236.	99.9	-	12.4	233.	99.9	-	15.8	225.	99.9	-	71.4	48.3	-.8	D	-2.6	D	.00
89	6	17	18	8.3	226.	99.9	-	10.7	224.	99.9	-	15.3	218.	99.9	-	71.7	49.1	-.9	D	-2.8	D	.00
89	6	17	19	9.2	237.	99.9	-	12.1	236.	99.9	-	18.4	235.	99.9	-	71.6	48.0	-.5	D	-2.2	D	.00
89	6	17	20	3.0	181.	99.9	-	5.5	217.	99.9	-	13.6	230.	99.9	-	67.9	52.3	-.2	E	-.4	E	.00
89	6	17	21	3.0	204.	99.9	-	5.8	202.	99.9	-	13.3	226.	99.9	-	65.2	54.2	1.4	F	1.5	E	.00
89	6	17	22	3.3	182.	99.9	-	7.7	201.	99.9	-	15.5	230.	99.9	-	62.3	53.5	2.6	G	3.5	E	.00
89	6	17	23	3.7	189.	99.9	-	8.2	203.	99.9	-	16.3	225.	99.9	-	62.2	53.2	2.6	G	3.5	E	.00
89	6	17	24	3.8	186.	99.9	-	7.6	220.	99.9	-	16.7	225.	99.9	-	62.2	53.0	1.9	F	2.4	E	.00
89	6	18	1	5.2	206.	99.9	-	9.7	229.	99.9	-	19.4	227.	99.9	-	63.8	52.0	.4	E	.4	E	.00
89	6	18	2	4.4	215.	99.9	-	8.3	238.	99.9	-	21.6	231.	99.9	-	61.5	52.5	1.2	F	1.8	E	.00
89	6	18	3	5.7	246.	99.9	-	8.7	247.	99.9	-	21.3	232.	99.9	-	62.5	51.9	.0	E	.0	E	.00
89	6	18	4	1.4	166.	99.9	-	3.7	271.	99.9	-	12.3	240.	99.9	-	57.4	53.1	2.6	G	2.6	E	.00

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

-----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 (F)	DELTA T (F)	DELTA T (F)	RAIN 500-35 SC(IN)	RAIN 500-35 SC(IN)	FALL SC(IN)
89	6	18	5	1.1	127	99.9	1.6	227	99.9	2.7	260	99.9	54.4	53.0	4.1	6	3.9	F	.00				
89	6	18	6	1.6	128	99.9	2.0	28	99.9	4.6	205	99.9	52.7	52.7	2.6	6	5.0	F	.00				
89	6	18	7	1.9	17	99.9	1.9	303	99.9	8.3	211	99.9	54.7	53.3	1.5	F	2.2	E	.00				
89	6	18	8	.9	37	99.9	1.2	40	99.9	8.2	218	99.9	59.3	54.4	-.1	E	-1.0	E	.00				
89	6	18	9	2.1	311	99.9	2.1	310	99.9	5.8	239	99.9	53.5	53.7	-.6	D	-2.1	D	.00				
89	6	18	10	2.2	287	99.9	3.3	281	99.9	6.8	236	99.9	66.3	54.4	-.9	D	-2.5	D	.00				
89	6	18	11	7.2	235	99.9	9.8	241	99.9	12.6	236	99.9	71.5	54.1	-1.2	A	-3.3	D	.00				
89	6	18	12	7.2	244	99.9	9.7	243	99.9	12.3	242	99.9	73.7	53.0	-1.2	A	-3.3	D	.00				
89	6	18	13	6.7	242	99.9	8.9	261	99.9	12.1	253	99.9	75.4	50.7	-1.3	A	-3.4	D	.00				
89	6	18	14	6.7	227	99.9	9.1	230	99.9	12.0	236	99.9	77.2	49.0	-1.4	A	-3.4	D	.00				
89	6	18	15	8.2	227	99.9	10.7	233	99.9	12.9	237	99.9	78.1	49.0	-1.5	A	-3.6	D	.00				
89	6	18	16	8.4	224	99.9	11.7	225	99.9	15.1	226	99.9	78.0	52.6	-1.4	A	-3.7	D	.00				
89	6	18	17	7.9	231	99.9	10.1	241	99.9	12.0	235	99.9	76.3	51.0	-1.1	B	-3.2	D	.00				
89	6	18	18	8.4	229	99.9	11.1	241	99.9	13.9	240	99.9	74.4	56.7	-1.0	C	-2.9	D	.00				
89	6	18	19	7.0	228	99.9	10.2	233	99.9	14.1	229	99.9	72.5	56.6	-.7	D	-2.7	D	.00				
89	6	18	20	1.4	210	99.9	3.0	279	99.9	5.6	254	99.9	70.7	58.7	-.5	D	-2.1	D	.00				
89	6	18	21	3.6	153	99.9	3.6	198	99.9	7.0	239	99.9	68.5	59.6	.3	E	-.6	E	.00				
89	6	18	22	1.6	173	99.9	1.7	177	99.9	7.7	218	99.9	66.4	60.4	.8	E	-.6	E	.00				
89	6	18	23	1.2	144	99.9	.9	51	99.9	1.3	115	99.9	64.5	60.4	2.5	F	2.0	E	.00				
89	6	18	24	.7	171	99.9	2.2	14	99.9	2.0	209	99.9	63.9	60.4	.8	E	1.6	E	.00				
89	6	19	1	1.0	118	99.9	1.3	10	99.9	1.9	194	99.9	62.7	60.5	.7	E	2.7	E	.00				
89	6	19	2	1.3	117	99.9	2.9	46	99.9	1.7	119	99.9	60.6	59.8	2.0	F	4.1	F	.00				
89	6	19	3	.7	115	99.9	3.4	69	99.9	2.1	137	99.9	59.1	59.1	1.9	F	4.9	F	.00				
89	6	19	4	1.1	121	99.9	2.3	73	99.9	1.8	101	99.9	57.8	57.8	1.8	F	5.9	F	.00				
89	6	19	5	.9	109	99.9	3.1	49	99.9	3.6	78	99.9	57.2	57.2	2.3	F	4.6	F	.00				
89	6	19	6	1.6	92	99.9	3.0	56	99.9	5.9	88	99.9	58.0	58.0	1.5	F	2.3	E	.00				
89	6	19	7	1.0	94	99.9	3.4	41	99.9	4.9	113	99.9	57.4	57.4	1.4	F	3.1	E	.00				
89	6	19	8	2.0	358	99.9	2.5	53	99.9	6.5	129	99.9	62.6	60.4	-.1	E	-.0	E	.00				
89	6	19	9	3.6	13	99.9	5.2	38	99.9	6.3	117	99.9	67.1	60.1	-.5	D	-1.0	E	.00				
89	6	19	10	3.1	85	99.9	6.5	109	99.9	8.8	115	99.9	73.0	60.0	-1.2	A	-3.4	D	.00				
89	6	19	11	2.9	103	99.9	5.3	106	99.9	6.6	105	99.9	75.6	60.9	-1.6	A	-3.7	D	.00				
89	6	19	12	3.4	78	99.9	6.6	115	99.9	8.5	123	99.9	78.3	60.4	-2.2	A	-4.5	B	.00				
89	6	19	13	3.0	142	99.9	6.1	143	99.9	6.7	151	99.9	80.1	59.7	-2.1	A	-4.3	C	.00				
89	6	19	14	3.1	179	99.9	6.7	171	99.9	7.7	167	99.9	79.1	59.0	-1.0	C	-2.9	D	.00				
89	6	19	15	1.8	75	99.9	2.8	94	99.9	3.6	132	99.9	80.0	60.3	-1.3	A	-3.8	D	.00				
89	6	19	16	1.0	104	99.9	2.8	119	99.9	2.8	126	99.9	79.0	61.4	-.7	D	-2.6	P	.00				
89	6	19	17	.9	43	99.9	.9	310	99.9	2.0	164	99.9	76.7	66.4	.5	E	-1.1	.	.00				
89	6	19	18	1.8	30	99.9	3.7	34	99.9	3.4	2	99.9	73.3	68.1	.5	E	1.0	L	.00				
89	6	23	10	1.7	12	99.9	1.4	23	99.9	2.1	129	99.9	70.6	68.6	-1.2	A	-.1	E	.00				
89	6	23	11	2.1	351	99.9	2.1	15	99.9	2.1	81	99.9	74.9	70.4	-.4	D	-.2	E	.00				
89	6	23	12	4.2	354	99.9	5.0	31	99.9	8.4	23	99.9	80.9	68.6	-1.1	B	-3.4	D	.00				
89	6	23	13	3.8	23	99.9	7.6	37	99.9	8.2	41	99.9	83.3	63.9	-2.1	A	-4.4	B	.00				
89	6	23	14	3.1	17	99.9	5.4	48	99.9	6.8	47	99.9	84.2	66.0	-1.5	A	-4.1	C	.00				
89	6	23	15	3.3	44	99.9	6.4	55	99.9	7.9	45	99.9	84.8	65.4	-1.4	A	-3.7	D	.00				
89	6	23	16	4.3	10	99.9	8.9	22	99.9	10.1	17	99.9	81.9	64.7	-1.7	A	-3.8	D	.00				
89	6	23	17	3.5	25	99.9	7.0	64	99.9	10.3	47	99.9	85.4	64.9	-1.2	A	-3.6	D	.00				
89	6	23	18	4.6	357	99.9	8.2	16	99.9	11.1	14	99.9	83.8	66.5	-1.0	C	-2.6	D	.00				
89	6	26	12	2.1	240	99.9	2.5	150	99.9	2.6	171	99.9	83.1	69.1	-1.4	A	-3.5	D	.00				

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR	STD DEV	WIND SPEED (MPH)	WIND DIR	STD DEV	WIND SPEED (MPH)	WIND DIR	STD DEV	AMB. TEMP 3SF	DEW POINT 3SF	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
89	6	26	13	2.4	273.	99.9	2.5	298.	99.9	3.7	278.	99.9	85.6	69.8	-1.7 A	-4.1 C	.00
89	6	26	14	3.5	279.	99.9	4.6	279.	99.9	5.7	255.	99.9	86.5	70.0	-1.8 A	-3.8 D	.00
89	6	26	15	2.2	311.	99.9	2.8	344.	99.9	2.2	336.	99.9	87.1	69.7	-1.3 A	-3.5 D	.00
89	6	26	16	10.1	211.	99.9	15.3	224.	99.9	22.1	225.	99.9	78.6	58.8	-5 D	-1 E	.00
89	6	26	17	2.4	297.	99.9	2.4	309.	99.9	4.7	186.	99.9	81.0	71.8	-1.3 A	-2.5 D	.00
89	6	26	18	2.6	278.	99.9	2.6	285.	99.9	4.3	218.	99.9	83.5	73.3	-1.1 B	-2.9 D	.00
89	6	26	19	1.8	221.	99.9	2.7	304.	99.9	3.9	209.	99.9	83.0	73.5	-9 D	-2.9 D	.00
89	6	26	20	1.3	294.	99.9	1.6	268.	99.9	2.9	236.	99.9	79.7	72.7	-5 D	-2.2 D	.00
89	6	26	21	3.1	198.	99.9	6.4	217.	99.9	7.3	258.	99.9	75.9	73.4	1.1 F	1.5 E	.00
89	6	26	22	1.8	167.	99.9	4.6	202.	99.9	5.7	269.	99.9	74.7	72.5	1.8 F	1.8 E	.00
89	6	26	23	2.0	174.	99.9	3.3	185.	99.9	3.5	264.	99.9	73.8	72.4	1.0 F	1.7 E	.00
89	6	26	24	1.2	138.	99.9	4.0	202.	99.9	4.6	209.	99.9	72.5	72.0	.5 E	2.3 E	.00
89	6	27	4	1.3	2	99.9	1.4	266.	99.9	2.9	244.	99.9	69.7	69.7	.4 E	1.2 E	.00
89	6	27	5	.0	102.	99.9	.8	233.	99.9	4.2	228.	99.9	68.5	68.5	.6 E	2.4 E	.00
89	6	27	6	.9	124.	99.9	1.3	351.	99.9	1.5	154.	99.9	67.7	67.7	.3 E	2.5 E	.00
89	6	27	7	1.0	163.	99.9	1.9	236.	99.9	5.7	233.	99.9	68.0	68.0	.1 E	1.8 E	.00
89	6	27	8	1.3	293.	99.9	1.7	178.	99.9	9.4	227.	99.9	69.4	69.4	.0 E	2.4 E	.00
89	6	27	9	1.6	274.	99.9	3.0	247.	99.9	5.3	254.	99.9	73.6	72.1	1.3 F	.0 E	.00
89	6	27	10	2.2	273.	99.9	3.4	274.	99.9	5.2	252.	99.9	79.5	72.1	-9 D	-2.6 D	.00
89	6	27	11	3.3	268.	99.9	4.5	273.	99.9	6.0	254.	99.9	82.5	72.7	-1.1 B	-3.1 D	.00
89	6	27	12	4.3	273.	99.9	5.9	265.	99.9	8.2	269.	99.9	84.5	72.2	-1.4 A	-3.5 D	.00
89	6	27	13	5.7	229.	99.9	8.5	242.	99.9	10.6	240.	99.9	86.3	71.4	-1.5 A	-3.7 D	.00
89	6	27	14	6.5	229.	99.9	8.2	229.	99.9	10.1	228.	99.9	87.3	70.7	-1.4 A	-3.6 D	.00
89	6	27	15	2.9	196.	99.9	4.8	54.	99.9	6.5	10.	99.9	78.4	56.7	-7 D	-2.6 D	.00
89	6	27	16	3.3	236.	99.9	4.1	225.	99.9	3.5	245.	99.9	80.4	66.5	-1.4 A	-2.8 D	.00
89	6	27	17	2.9	10.	99.9	6.2	28.	99.9	2.9	86.	99.9	81.3	68.7	-4 D	-1.1 E	.00
89	6	27	18	3.1	25.	99.9	6.1	33.	99.9	10.2	2.	99.9	69.1	66.6	-8 D	-2.7 D	.00
89	6	27	19	2.2	181.	99.9	2.4	229.	99.9	5.3	325.	99.9	67.2	67.2	.0 E	-1.7 D	.00
89	6	27	20	2.4	251.	99.9	3.6	281.	99.9	6.4	293.	99.9	67.6	67.6	-3 E	-5 E	.12
89	6	27	21	1.7	346.	99.9	1.9	221.	99.9	6.7	160.	99.9	67.2	67.2	.0 E	-4 E	.10
89	6	27	22	2.2	35.	99.9	5.8	124.	99.9	16.7	138.	99.9	67.2	67.2	-1 E	-6 E	.04
89	6	27	23	2.5	222.	99.9	4.6	195.	99.9	11.7	176.	99.9	67.3	67.3	.0 E	-1.0 E	.00
89	6	27	24	2.7	252.	99.9	4.5	251.	99.9	7.2	258.	99.9	67.7	67.1	.0 E	-1.7 D	.00
89	6	28	1	1.0	10.	99.9	1.4	254.	99.9	4.8	226.	99.9	66.5	66.5	.0 E	-9 E	.00
89	6	28	2	1.1	241.	99.9	2.8	197.	99.9	4.6	262.	99.9	66.3	66.3	.0 E	-1.2 E	.00
89	6	28	3	1.0	238.	99.9	1.8	193.	99.9	5.0	261.	99.9	66.7	66.7	-1 E	-1.4 D	.00
89	6	28	4	1.4	286.	99.9	3.3	280.	99.9	7.6	266.	99.9	67.9	67.9	-4 D	-1.8 D	.00
89	6	28	5	1.3	302.	99.9	4.8	289.	99.9	10.5	277.	99.9	68.0	68.0	-2 E	-1.3 D	.00
89	6	28	6	2.6	268.	99.9	5.9	273.	99.9	12.4	270.	99.9	68.1	68.0	-2 E	-1.4 D	.00
89	6	28	7	1.6	267.	99.9	3.9	274.	99.9	9.2	274.	99.9	68.1	68.1	-3 E	-1.5 D	.07
89	6	28	8	2.0	295.	99.9	4.3	286.	99.9	8.0	277.	99.9	68.4	68.4	-3 E	-1.6 D	.00
89	6	28	9	2.0	307.	99.9	5.1	304.	99.9	10.2	290.	99.9	69.3	68.8	-6 D	-1.8 D	.00
89	6	28	10	3.5	252.	99.9	5.2	270.	99.9	7.1	277.	99.9	71.7	999.9	-1.1 B	-2.9 D	.00
89	6	28	11	3.1	283.	99.9	4.6	297.	99.9	5.3	294.	99.9	73.7	999.9	-1.0 C	-3.0 D	.00
89	6	28	12	4.4	306.	99.9	6.4	318.	99.9	7.2	319.	99.9	77.5	999.9	-1.6 A	-3.6 D	.00
89	6	28	13	5.2	326.	99.9	8.5	320.	99.9	11.1	319.	99.9	78.9	999.9	-1.3 A	-3.5 D	.00
89	6	28	14	5.7	285.	99.9	10.5	298.	99.9	14.9	297.	99.9	79.9	999.9	-1.7 A	-3.8 D	.00
89	6	28	15	6.2	316.	99.9	10.7	315.	99.9	12.3	312.	99.9	80.4	54.5	-1.8 A	-3.9 C	.00

PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

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

YR	MO	DAY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV (DEG)	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
89	6	28	16	5.5	296.	99.9	10.0	301.	99.9	14.7	301.	99.9	80.4	53.1	-1.5 A	-3.7 D	.00
89	6	28	17	5.4	338.	99.9	7.9	328.	99.9	10.8	312.	99.9	80.5	52.9	-1.3 A	-3.4 D	.00
89	6	28	18	5.8	337.	99.9	10.2	332.	99.9	14.7	324.	99.9	80.0	53.5	-1.4 A	-3.3 D	.00
89	6	28	19	4.0	334.	99.9	6.3	332.	99.9	11.5	331.	99.9	78.3	54.6	-1.0 C	-2.9 D	.00
89	6	28	20	2.3	340.	99.9	4.2	336.	99.9	10.7	338.	99.9	76.0	56.3	-6.6 D	-2.1 D	.00
89	6	28	21	2.0	342.	99.9	6.0	5.	99.9	12.1	2.	99.9	70.7	59.1	1.4 F	.3 E	.00
89	6	28	22	2.9	356.	99.9	6.8	9.	99.9	11.8	354.	99.9	68.5	60.2	-2.2 E	-2.0 D	.00
89	6	28	23	3.6	285.	99.9	4.5	311.	99.9	7.3	343.	99.9	66.2	58.6	-5.5 D	-2.4 D	.00
89	6	28	24	3.4	336.	99.9	5.7	351.	99.9	11.8	350.	99.9	62.6	54.7	-4.4 D	-2.3 D	.00
89	6	29	1	2.1	330.	99.9	3.5	345.	99.9	8.1	348.	99.9	60.1	54.3	-2.2 E	-2.0 D	.00
89	6	29	2	2.1	303.	99.9	6.5	309.	99.9	12.2	323.	99.9	56.1	54.6	-2.2 E	-1.5 D	.00
89	6	29	3	3.6	330.	99.9	7.6	317.	99.9	14.3	341.	99.9	56.5	52.8	-3.3 E	-1.1 E	.00
89	6	29	4	4.7	332.	99.9	7.4	347.	99.9	14.3	360.	99.9	54.9	52.6	-3.3 E	-1.3 D	.00
89	6	29	5	2.1	339.	99.9	5.3	353.	99.9	11.9	13.	99.9	53.4	51.3	-2.2 E	-1.3 D	.00
89	6	29	6	1.7	100.	99.9	2.9	50.	99.9	12.1	10.	99.9	51.7	49.4	.0 E	-.8 E	.00
89	6	29	7	1.9	76.	99.9	2.7	79.	99.9	5.0	33.	99.9	52.3	48.3	.0 E	-1.7 D	.00
89	6	29	8	4.1	14.	99.9	8.3	26.	99.9	12.3	19.	99.9	55.5	48.6	-1.1 B	-3.2 D	.00
89	6	29	9	3.4	20.	99.9	8.5	52.	99.9	10.8	41.	99.9	58.1	48.3	-1.0 C	-3.3 D	.00
89	6	29	10	5.4	3.	99.9	11.1	23.	99.9	14.4	16.	99.9	58.3	46.9	-1.1 B	-3.2 D	.00
89	6	29	11	5.2	25.	99.9	21.3	57.	99.9	12.7	40.	99.9	61.6	47.5	-2.2 A	-4.7 B	.00
89	6	29	12	4.4	31.	99.9	7.6	45.	99.9	7.7	40.	99.9	64.6	49.2	-2.2 A	-4.9 A	.00
89	6	29	13	4.6	7.	99.9	7.6	56.	99.9	9.4	51.	99.9	66.0	49.2	-1.6 A	-3.9 C	.00
89	6	29	14	4.9	355.	99.9	6.5	7.	99.9	10.0	2.	99.9	67.6	49.4	-2.2 A	-4.4 B	.00
89	6	29	15	4.2	349.	99.9	6.4	352.	99.9	8.2	355.	99.9	69.2	50.8	-1.8 A	-4.3 C	.00
89	6	29	16	3.6	338.	99.9	5.3	20.	99.9	6.9	16.	99.9	71.6	51.5	-1.9 A	-4.6 B	.00
89	6	29	17	3.3	15.	99.9	4.6	1.	99.9	6.1	359.	99.9	72.2	51.8	-1.9 A	-4.5 B	.00
89	6	29	18	5.2	352.	99.9	8.6	12.	99.9	9.8	13.	99.9	72.2	52.2	-1.8 A	-4.1 C	.00
89	6	29	19	3.0	326.	99.9	5.4	345.	99.9	7.6	348.	99.9	71.7	53.5	-1.5 A	-3.4 D	.00
89	6	29	20	2.2	338.	99.9	4.9	351.	99.9	9.4	356.	99.9	69.7	54.5	-1.5 D	-1.8 D	.00
89	6	29	21	1.9	37.	99.9	6.6	350.	99.9	14.9	355.	99.9	65.4	55.1	.6 E	.3 E	.00
89	6	29	22	2.3	148.	99.9	2.4	146.	99.9	9.5	2.	99.9	62.4	54.1	1.2 F	.4 E	.00
89	6	29	23	1.9	157.	99.9	2.9	261.	99.9	5.6	357.	99.9	59.3	53.9	3.2 G	2.0 E	.00
89	6	29	24	1.1	59.	99.9	1.2	112.	99.9	5.6	16.	99.9	56.5	52.9	3.7 G	4.0 F	.00
89	6	30	1	1.0	135.	99.9	1.8	18.	99.9	5.7	41.	99.9	53.8	52.7	2.4 F	5.6 F	.00
89	6	30	2	1.0	122.	99.9	1.9	218.	99.9	5.0	41.	99.9	51.9	51.6	2.6 G	5.9 F	.00
89	6	30	3	1.1	116.	99.9	1.3	7.	99.9	3.8	34.	99.9	50.5	50.5	2.1 F	6.3 F	.00
89	6	30	4	.8	147.	99.9	.9	180.	99.9	3.8	34.	99.9	49.4	49.4	2.5 F	6.2 F	.00
89	6	30	5	1.9	147.	99.9	2.1	187.	99.9	3.1	30.	99.9	48.9	48.9	2.3 F	5.5 F	.00
89	6	30	6	.8	129.	99.9	2.4	12.	99.9	3.3	47.	99.9	47.9	47.9	2.2 F	5.3 F	.00
89	6	30	7	.8	168.	99.9	.0	45.	99.9	3.2	32.	99.9	48.9	48.9	1.6 F	4.3 F	.00
89	6	30	8	1.4	3.	99.9	1.6	23.	99.9	6.0	61.	99.9	54.3	52.0	-2.2 E	.5 E	.00
89	6	30	9	2.3	341.	99.9	2.8	6.	99.9	2.5	87.	99.9	60.1	52.3	-9.9 D	-2.3 D	.00
89	6	30	10	3.2	345.	99.9	3.5	360.	99.9	2.9	76.	99.9	64.7	53.7	-1.0 C	-2.0 D	.00
89	6	30	11	4.6	340.	99.9	4.9	357.	99.9	3.2	12.	99.9	69.5	51.9	-1.1 B	-2.5 D	.00
89	6	30	12	2.8	2.	99.9	3.5	5.	99.9	3.3	12.	99.9	73.1	51.8	-1.9 A	-4.2 C	.00
89	6	30	13	3.7	19.	99.9	5.4	29.	99.9	5.7	27.	99.9	75.3	51.7	-2.0 A	-4.5 B	.00
89	6	30	14	4.1	297.	99.9	4.5	300.	99.9	3.6	210.	99.9	76.1	51.5	-1.5 A	-3.6 D	.00
89	6	30	15	2.9	265.	99.9	2.5	218.	99.9	2.4	119.	99.9	78.4	49.1	-1.3 A	-3.5 D	.00



PROGRAM: LIST VERSION: PC-1.0

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 500-FT LEVEL BATCH RELEASES FOR THE SECOND QUARTER 1989

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

VR	MO	DY	HR	WIND SPEED (MPH)	WIND DIR	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR	STD DEV (DEG)	WIND SPEED (MPH)	WIND DIR	STD DEV (DEG)	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
89	6	30	16	1.5	294	99.9	2.7	181	99.9	3.9	179	99.9	80.0	50.2	-2.0	A	-4.6	B	.00		
89	6	30	17	2.8	343	99.9	3.6	353	99.9	3.2	351	99.9	79.8	51.1	-1.5	A	-3.7	D	.00		
89	6	30	18	2.3	340	99.9	2.9	360	99.9	3.5	9	99.9	79.9	49.9	-1.3	A	-3.5	D	.00		
89	6	30	19	1.7	30	99.9	1.5	85	99.9	2.3	115	99.9	79.9	51.8	-1.2	A	-2.9	D	.00		
89	6	30	20	.8	50	99.9	1.5	40	99.9	3.2	27	99.9	75.8	60.2	-1.1	E	.9	E	.00		