

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
Supplemental Information
2nd HALF - 1985

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

1. Regulatory Limits

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

2. Maximum Permissible Concentrations

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

- a. Fission and activation gases:
 - b. Iodines:
 - c. Particulates, half-lives >8 days:
 - d. Liquid effluents:
-] 10 CFR 20, Appendix B, Table II

3. Average Energy

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

4. Measurements and Approximations of Total Radioactivity

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

- a. Fission and activation gases: Geli Gamma Spectrometry, Liquid Scintillation Counter
- b. Iodines: Geli Gamma Spectrometry
- c. Particulates: Geli Gamma Spectrometry, Low Background Proportional Counter
- d. Liquid effluents: Geli Gamma Spectrometry, Liquid Scintillation Counter

5. Batch Releases

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

a. Liquid

	3rd Quarter	4th Quarter
1. Number of batch releases:	19	10
2. Total time period for batch releases:	4,636 Minutes	4,053 Minutes
3. Maximum time period for a batch release:	1,321 Minutes	913 Minutes
4. Average time period for batch releases:	244 Minutes	405 Minutes
5. Minimum time period for a batch release:	69 Minutes	5 Minutes
6. Average river flow during periods of release:	15,767 Ft ³ /sec	66,533 Ft ³ /sec

b. Gaseous

1. Number of batch releases:	5	4
2. Total time period for batch releases:	3,652 Minutes	603 Minutes
3. Maximum time period for a batch release:	1,216 Minutes	517 Minutes
4. Average time period for batch releases:	730 Minutes	151 Minutes
5. Minimum time period for a batch release:	25 Minutes	1 Minutes

6. Abnormal Releases

8612070474 860224
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a. Liquid

1. Number of releases:	NONE	1
2. Total activity released:	----	2.24E-3 Ci

b. Gaseous

1. Number of releases:	1	3
2. Total activity released:	8.22E-1 Ci	3.97E-1 Ci

TABLE 1A
2nd HALF - 1985
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

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

		3rd	4th	
1. Total release	Ci	1.37E+0	1.71E+0	2.65E+1
2. Average release rate for period	μCi/sec	1.74E-1	2.17E-1	
3. Percent of technical specification limit	%	N/A	N/A	

B. Iodines

1. Total iodine-131	Ci	9.77E-5	2.20E-4	2.83E+1
2. Average release rate for period	μCi/sec	1.24E-5	2.79E-5	
3. Percent of technical specification limit	%	3.91E-2	8.80E-2	

C. Particulates

1. Particulates with half-lives >8 days	Ci	5.24E-5	7.96E-5	3.00E+1
2. Average release rate for period	μCi/sec	6.65E-6	1.01E-5	
3. Percent of technical specification limit	%	N/A	N/A	
4. Gross alpha radioactivity	Ci	4.56E-6	3.71E-7	

D. Tritium

1. Total release	Ci	1.76E+0	3.92E+0	3.29E+1
2. Average release rate for period	μCi/sec	2.23E-1	4.97E-1	
3. Percent of technical specification limit	%	N/A	N/A	

N/A = NOT APPLICABLE

The amount of time (in seconds) used to calculate the release rates specified in A.2, B.2, C.2, and D.2 is the average amount of seconds per calendar quarter (7.88E + 6 seconds).

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

TABLE 1B
2nd HALF - 1985
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENTS - ELEVATED RELEASE

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter	Quarter	Quarter	Quarter
1. Fission gases		3rd	4th	3rd	4th
krypton-85	Ci	LLD	LLD	3.50E-3	2.40E-2
krypton-85m	Ci	LLD	LLD	LLD	LLD
krypton-87	Ci	LLD	LLD	LLD	LLD
krypton-88	Ci	LLD	LLD	LLD	LLD
xenon-133	Ci	3.33E-1	9.95E-1	LLD	3.60E-2
xenon-133m	Ci	LLD	LLD	LLD	LLD
xenon-135	Ci	LLD	4.41E-2	LLD	LLD
xenon-135m	Ci	LLD	LLD	LLD	LLD
xenon-138	Ci	LLD	LLD	LLD	LLD
	Ci				
	Ci				
unidentified	Ci	NONE	NONE	NONE	NONE
Total for period	Ci	3.33E-1	1.04E-0	3.50E-3	6.00E-2

2. Iodines

iodine-131	Ci	1.60E-7	7.63E-7	LLD	LLD
iodine-133	Ci	LLD	LLD	LLD	LLD
iodine-135	Ci	LLD	LLD	LLD	LLD
Total for period	Ci	1.60E-7	7.63E-7	---	---

3. Particulates

manganese-54	Ci	LLD	LLD	LLD	LLD
iron-59	Ci	LLD	LLD	LLD	LLD
cobalt-58	Ci	LLD	LLD	LLD	LLD
cobalt-60	Ci	1.23E-6	LLD	5.11E-7	LLD
zinc-65	Ci	LLD	LLD	LLD	LLD
strontium-89	Ci	LLD	4.97E-9	LLD	LLD
strontium-90	Ci	4.61E-8	LLD	LLD	LLD
molybdenum-99	Ci	LLD	LLD	LLD	LLD
cesium-134	Ci	LLD	LLD	LLD	LLD
cesium-137	Ci	2.15E-8	LLD	LLD	LLD
cerium-141	Ci	LLD	LLD	LLD	LLD
cerium-144	Ci	LLD	LLD	LLD	LLD
	Ci			LLD	LLD
	Ci				
Total for period	Ci	1.30E-6	4.97E-9	5.11E-7	---

LLD = Below the lower limit of detectability, in $\mu\text{Ci/cc}$ (Table 4).
The 4th quarter batch column of this table includes the activity determinations for 2 of the Abnormal Releases indicated on the Supplemental Information Page.

	$\frac{t_{1/2}}$	<u>LLD</u>
Kr-85	$\sim 10 \text{ y}$	$4.16 \text{ E-}6 \text{ } \mu\text{Ci/cc}$
Xe-133	$\sim 5.3 \text{ d}$	$1.84 \text{ E-}8 \text{ } \mu\text{Ci/cc}$

TABLE 1C
2nd HALF - 1985
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENTS - GROUND-LEVEL RELEASES

CONTINUOUS MODE BATCH MODE

Nuclides Released	Unit	Quarter	Quarter	Quarter	Quarter
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1. Fission gases

		3rd	4th	3rd	4th
krypton-85	Ci	2.09E-1	2.51E-1	LLD	LLD
krypton-85m	Ci	LLD	LLD	LLD	LLD
krypton-87	Ci	LLD	LLD	LLD	LLD
krypton-88	Ci	LLD	LLD	LLD	LLD
xenon-133	Ci	LLD	LLD	8.22E-1	3.61E-1
xenon-133m	Ci	LLD	LLD	LLD	LLD
xenon-135	Ci	LLD	LLD	LLD	LLD
xenon-135m	Ci	LLD	LLD	LLD	LLD
xenon-138	Ci	LLD	LLD	LLD	LLD
	Ci				
	Ci				
unidentified	Ci	NONE	NONE	NONE	NONE
Total for period	Ci	2.09E-1	2.51E-1	8.22E-1	3.61E-1

2. Iodines

iodine-131	Ci	9.75E-5	2.19E-4	LLD	LLD
iodine-133	Ci	LLD	3.62E-4	LLD	LLD
iodine-135	Ci	LLD	LLD	LLD	LLD
Total for period	Ci	9.75E-5	5.81E-4	---	---

3. Particulates

manganese-54	Ci	LLD	LLD	LLD	LLD
iron-59	Ci	LLD	LLD	LLD	LLD
cobalt-58	Ci	1.04E-5	4.87E-7	LLD	LLD
cobalt-60	Ci	2.52E-5	5.59E-5	LLD	LLD
zinc-65	Ci	LLD	LLD	LLD	LLD
strontium-89	Ci	2.19E-6	2.16E-6	LLD	LLD
strontium-90	Ci	4.82E-6	LLD	LLD	LLD
molybdenum-99	Ci	LLD	LLD	LLD	LLD
cesium-134	Ci	LLD	LLD	LLD	LLD
cesium-137	Ci	7.98E-6	9.43E-6	LLD	LLD
cerium-141	Ci	LLD	LLD	LLD	LLD
cerium-144	Ci	LLD	LLD	LLD	LLD
	Ci				
unidentified	Ci	NONE	1.16E-5	NONE	NONE
Total for period	Ci	5.06E-5	7.96E-5	---	---

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

The 3rd and 4th quarter batch columns of this table include the activity determinations for 2 of the Abnormal Releases indicated on the Supplemental Information Page.

TABLE 2A
2nd HALF - 1985
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

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

		3rd	4th	
1. Total release (not including tritium, gases, alpha)	Ci	6.26E-3	1.10E-2	2.60E+1
2. Average diluted concentration during period	μCi/ml	2.36E-8	2.87E-7	
3. Percent of applicable limit	%	5.01E-1	8.80E-1	

4.7E-06 3.3E-05

B. Tritium

1. Total release	Ci	1.49E+1	2.44E+1	2.50E+1
2. Average diluted concentration during period	μCi/ml	5.62E-5	6.37E-4	
3. Percent of applicable limit	%	1.87E+0	2.12E+1	

C. Dissolved and entrained gases

1. Total release	Ci	7.22E-6	1.11E-3	2.70E+1
2. Average diluted concentration during period	μCi/ml	2.72E-11	2.90E-8	
3. Percent of applicable limit	%	1.36E-5	1.45E-2	

D. Gross alpha radioactivity

1. Total release	Ci	5.67E-7	LLD	2.89E+1
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E. Volume of waste released (prior to dilution)	liters	4.32E+5	4.14E+5	1.12E+1
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F. Volume of dilution water used during period	liters	2.65E+8	3.79E+7	2.29E+1
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LLD = Below the lower limit of detectability, in μCi/cc (Table 4).

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

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

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

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

TABLE 2B
2nd HALF - 1985
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
LIQUID EFFLUENTS

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 3rd	Quarter 4th	Quarter 3rd	Quarter 4th
strontium-89	Ci	N/A	N/A	3.67E-6	6.88E-6
strontium-90	Ci	N/A	N/A	LLD	LLD
cesium-134	Ci	N/A	N/A	3.24E-4	2.43E-4
cesium-137	Ci	N/A	N/A	8.74E-4	9.06E-4
iodine-131	Ci	N/A	N/A	6.20E-7	1.42E-5
cobalt-57	Ci	N/A	N/A	LLD	6.45E-6
cobalt-58	Ci	N/A	N/A	2.53E-4	2.69E-3
cobalt-60	Ci	N/A	N/A	2.13E-3	3.03E-3
iron-59	Ci	N/A	N/A	LLD	LLD
zinc-65	Ci	N/A	N/A	LLD	LLD
manganese-54	Ci	N/A	N/A	1.94E-6	2.30E-4
chromium-51	Ci	N/A	N/A	LLD	LLD
iron-55	Ci	N/A	N/A	2.67E-3	3.33E-3
zirconium-niobium-95	Ci	N/A	N/A	LLD	LLD
molybdenum-99	Ci	N/A	N/A	LLD	LLD
technetium-99M	Ci	N/A	N/A	LLD	LLD
barium-lanthanum-140	Ci	N/A	N/A	LLD	LLD
cerium-141	Ci	N/A	N/A	LLD	LLD
niobium-97	Ci	N/A	N/A	LLD	2.60E-4
silver-110M	Ci	N/A	N/A	LLD	7.54E-5
antimony-125	Ci	N/A	N/A	LLD	2.51E-4
	Ci	N/A	N/A		
	Ci	N/A	N/A		
unidentified	Ci	N/A	N/A	NONE	NONE
Total for period (above)	Ci	N/A	N/A	6.26E-3	1.10E-2
xenon-133	Ci	N/A	N/A	5.50E-6	1.09E-3
xenon-135	Ci	N/A	N/A	1.72E-6	1.64E-5
	Ci	N/A	N/A		
	Ci	N/A	N/A		
	Ci	N/A	N/A		
	Ci	N/A	N/A		
	Ci	N/A	N/A		

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

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

The 4th quarter batch column of this table include the activity determinations of the 1 Abnormal Release indicated on the Supplemental Information Page.

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
2nd HALF - 1985

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

		TYPE OF WASTE			Est. Total Error, %
		Spent resins filter sludges evaporator bottoms	Dry compressible waste contaminated equipment etc.	Irradiated Components control rods etc.	
Container Volume(m ³)		2.58E+1	1.51E+1	NONE	3.0E+1
Total Activity (Ci)		3.47E+1	4.02E-1	NONE	3.0E+1
** Principal Radionuclide Composition (%)	H-3	1.71E+1	3.60E+0		
	C-14	2.16E-2	4.19E-1		
	P-32	7.49E-3	---		
	Mn-54	7.14E-1	---		
	Fe-55	9.46E+0	4.41E+1		
	Co-57	1.48E-1	---		
	Co-58	1.31E+1	7.73E-1		
	Co-60	3.36E+1	3.34E+1		
	Ni-59	4.23E-1	---		
	Ni-63	1.09E+1	4.69E+0		
	Zn-65	3.39E-1	---		
	Sr-89	6.15E-2	---		
	Sr-90	5.73E-2	---		
	Nb-94	8.54E-4	---		
	Nb-95	8.19E-1	---		
	Zr-95	9.73E-1	8.85E-2		
	Tc-99	1.75E-3	3.60E-2		
	Ag-110m	1.03E-1	9.74E-1		
	Sb-124	6.44E-2	---		
	Sb-125	1.71E-1	1.55E+0		
	I-129	7.20E-3	1.19E-1		
	I-131	1.18E-6	---		
	Cs-134	2.93E+0	1.55E+0		
	Cs-137	6.94E+0	4.64E+0		
	Ce-144/Pr-144	2.44E-1	---		
	Np-237/Pu-242	3.48E-6	---		
	Pu-238	2.19E-3	1.09E-2		
	Pu-239/240	1.63E-3	7.48E-3		
Pu-241	1.86E-1	4.02E+0			
Am-241	1.10E-2	5.26E-3			
Cm-242	5.61E-3	9.49E-4			
Cm-243/244	6.48E-4	2.04E-3			
NUMBER OF SHIPMENTS	Type of Container	LSA	6	* 1	
		TYPE A	NONE	NONE	
		TYPE B	NONE	NONE	
		LARGE QUANTITY	NONE	NONE	
		OTHER	NONE	NONE	
	Solid Agent	CEMENT	2	NONE	
		UREA FORMALDEHYDE	NONE	NONE	
		NONE	4	* 1	
		OTHER	NONE	NONE	
	Mode of Trans.	TRUCK	6	* 1	
		RAIL	NONE	NONE	
		OTHER	NONE	NONE	
Destination	Barnwell, SC	6	* 1		
	Richland, WA	NONE	NONE		
	OTHER	NONE	NONE		

** See next page for continuation of Principal Radionuclides Total No. of Shipments 6

B. IRRADIATED FUEL SHIPMENTS NONE

*This waste was shipped by the same truck as one of the Resin Shipments

TABLE 3 - CONTINUED

2nd HALF - 1985

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

SOLID AND IRRADIATED FUEL SHIPMENTS

NUCLIDE	Spent resins Filter sludges Evaporator bottoms (%)
Cr-51	1.12 E + 0
Fe-59	4.69 E - 2
Ru-103	7.86 E - 2
Ba-140	2.88 E - 2
Ce-141	5.56 E - 2

TABLE 4

2nd HALF - 1985

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

LOWER LIMITS OF DETECTABILITY (LLD)

NUCLIDE	uCi/cc		
	GAS GRAB SAMPLE (1000 cc)	LIQUID GRAB SAMPLE (1000 cc)	FILTER PAPER/CHARCOAL CONTINUOUS EFFLUENT SAMPLE (5.0E 8 cc)
H-3	1.00 E-6	1.00 E-6	-----
Na-24	-----	4.66 E-8	-----
Ar-41	7.07 E-7	-----	-----
Cr-51	3.85 E-8	4.23 E-7	7.7 E-14
Mn-54	1.10 E-8	8.20 E-8	2.2 E-14
Fe-55	-----	* 5.00 E-7	-----
Fe-59	2.45 E-8	1.68 E-7	4.9 E-14
Co-57	2.00 E-9	2.66 E-8	4.0 E-15
Co-58	6.50 E-9	3.37 E-8	1.3 E-14
Co-60	3.85 E-8	2.53 E-7	7.7 E-14
Zn-65	1.80 E-8	8.40 E-8	3.6 E-14
Kr-85	4.16 E-6	5.83 E-6	* 1.0 E-10
Kr-85m	7.63 E-9	-----	-----
Kr-87	1.43 E-8	-----	-----
Kr-88	3.57 E-7	-----	-----
Sr-89	-----	1.30 E-9	2.00 E-15
Sr-90	-----	3.10 E-9	1.24 E-14
Sr-92	-----	5.18 E-8	-----
Nb-95	-----	3.18 E-8	-----
Nb-97	-----	2.86 E-8	-----
Zr-95	-----	1.08 E-7	-----
Mo-99	1.65 E-5	1.51 E-7	3.3 E-14
Tc-99m	-----	3.87 E-8	-----
Ag-110m	-----	2.92 E-8	-----
Sb-124	-----	2.67 E-8	-----
Sb-125	-----	3.93 E-8	-----
I-131	2.50 E-8	2.13 E-8	5.0 E-14
I-133	3.25 E-8	2.59 E-8	6.5 E-14
Xe-131m	3.04 E-7	5.14 E-7	-----
Xe-133	1.84 E-8	2.95 E-8	-----
Xe-133m	1.12 E-7	2.07 E-7	-----
Xe-135	1.03 E-8	1.74 E-8	-----
Xe-135m	2.19 E-8	-----	-----
Xe-138	8.82 E-8	1.36 E-7	-----
Cs-134	6.50 E-9	3.37 E-8	1.3 E-14
Cs-137	6.50 E-9	4.03 E-8	1.3 E-14
Ba-139	-----	5.48 E-8	-----
Ba-140	2.20 E-8	1.87 E-7	4.4 E-14
La-140	1.10 E-8	6.63 E-8	2.2 E-14
Ce-141	2.25 E-9	2.08 E-8	4.5 E-15
Ce-144	1.00 E-8	8.83 E-8	2.0 E-14
Gross Alpha	-----	7.10 E-10	9.8 E-17

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

*Sample analyses performed by a contractor laboratory.

TABLE 5

2nd HALF - 1985

ASSESSMENT OF RADIATION DOSES

Liquid effluents (Batch)

ORGAN (1)		Admin Quarterly Limit	3rd Quarter		4th Quarter	
			Dose	% of Tech. Spec. Limit	Dose	% of Tech. Spec. Limit
ORGAN (1)	BONE	5	0.0450	0.90	0.4860	9.72
	LIVER	5	0.0722	1.44	0.7410	14.82
	TOTAL BODY	1.5	0.0512	3.41	0.5160	34.40
	THYROID	5	0.0008	0.02	0.0015	0.03
	KIDNEY	5	0.0241	0.48	0.2480	4.96
	LUNG	5	0.0088	0.18	0.0831	1.66
	GI-LLI	5	0.0033	0.07	0.0525	1.05

Gaseous Effluents (Batch and Continuous)

		Admin	3rd Quarter		4th Quarter	
			Dose	% of Tech. Spec. Limit	Dose	% of Tech. Spec. Limit
ORGAN (2)	BETA AIR (2)	10	1.64E-2	0.164	1.11E-3	0.011
	GAMMA AIR (2)	5	4.58E-3	0.092	6.89E-5	0.001
ORGAN (3)	BONE	7.5	3.03E-2	0.4040	1.45E-3	0.0193
	LIVER	7.5	3.95E-3	0.0527	2.46E-3	0.0328
	(TOTAL BODY)	7.5	1.09E-2	0.1453	2.64E-3	0.0352
	THYROID	7.5	4.51E-3	0.0601	7.34E-3	0.0979
	KIDNEY	7.5	3.94E-3	0.0525	2.41E-3	0.0321
	LUNG	7.5	4.57E-3	0.0609	2.50E-3	0.0333
	GI-LLI	7.5	4.32E-3	0.0576	2.40E-3	0.0320

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

T.S. 3.11.2.1, dose rate states ≤ 500 mrem/yr for N.G. to T.6, and ≤ 1500 mrem/yr for any organ. T.S. 3.11.2.2 states ≤ 7.5 mrem during any calendar quarter to any organ.

BV Semiann. Effl. Rel. Rept. apparently
does not contain ① assessment of doses
for entire previous year ② all assumptions
used ③ conformance with 40 CFR 190

{ ④ Assessment of doses to members of public due to }
activities inside the site boundary }

TABLE 6

2nd HALF - 1985

TECHNICAL SPECIFICATION EFFLUENT MONITORING INSTRUMENTATION CHANNELS NOT RETURNED TO OPERABLE STATUS WITHIN 30 DAYS
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(RM-GW-101) - Waste Gas Decay Tanks Radiation Monitor

This monitor has been modified to eliminate the presence of water in the sample lines. Also, the original sample pump design specified air cooling. A replacement pump of this type could not be located, therefore, a water cooled pump was purchased. Design Change Package No. 653 was subsequently issued to supply cooling lines to the pump. Further discussion with the vendor revealed that the pump could be operated (without water cooling) as long as the sample is returned to the tank from which it was drawn. All maintenance work was completed on this monitor, and a new flow indicator (rotameter) as received from a vendor, was installed. A calibration of this monitor was attempted in May, but could not be accomplished due to several technical difficulties with the monitors operability. Our Nuclear Engineering Group has investigated these technical difficulties and determined that the problems could not be solved entirely in house. At present, our Nuclear Engineering Group is working with the monitors original vendor for resolution.

COMPARISON OF REPORTED ORGAN DOSES TO CORRECTED

Gaseous Effluents (Batch and Continuous)

(ALL DOSES ARE LISTED AS PERCENT OF TECH. SPEC.)

Quarter	BONE		LIVER		TOTAL BODY		THYROID		KIDNEY		LUNG		GI-LLI	
	R	C	R	C	R	C	R	C	R	C	R	C	R	C
2-85	0.0001	0.5947	0.0283	0.0405	0.0283	0.1747	0.0289	0.0535	0.0283	0.0396	0.0283	0.0524	0.0283	0.0473
1-85	0.00001	0.0760	0.0297	0.0659	0.0297	0.0676	0.0297	0.3147	0.0297	0.0591	0.0297	0.0669	0.0297	0.0580
4-84	0.0011	0.0276	0.0951	0.1013	0.0951	0.1035	0.1131	0.5893	0.0949	0.1005	0.0952	0.0991	0.0949	0.0976
3-84	0.0135	0.0236	0.2360	0.2387	0.2280	0.2307	0.2267	0.6453	0.2293	0.2333	0.2280	0.2280	0.2267	0.2267
2-84	0.0000	0.0163	0.1015	0.1096	0.1015	0.1073	0.1015	0.3560	0.1015	0.1068	0.1015	0.1051	0.1015	0.1045
1-84	0.0001	0.0123	0.0565	0.0611	0.0564	0.0616	0.0987	0.2333	0.0567	0.1024	0.0564	0.0605	0.0564	0.0596

R = Reported in the Semi-Annual Radioactive Effluent Release Report.

C = Corrected per DLC Calculation Package #ERS-ATL-85-049

2nd HALF - 1985

TABLE 7

Beaver Valley
Joint Frequency Distribution Tables
for
Continuous Release

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

Third Quarter 1985

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS A

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	12	8	3	6	6	10	9	8	3	4	2	3	3	3	4	6	90
3.51- 7.50	31	16	12	7	6	3	7	13	17	37	35	34	27	20	14	15	294
7.51-12.50	0	0	0	0	0	0	0	0	4	5	13	7	0	0	1	0	30
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	43	24	15	13	12	13	16	21	24	46	50	44	30	23	19	21	414

STABILITY CLASS B

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	2	2	1	0	1	0	2	2	1	1	1	2	2	1	2	1	21
3.51- 7.50	3	1	0	0	0	0	0	0	0	7	4	9	12	3	4	2	45
7.51-12.50	0	0	0	0	0	0	0	0	0	1	2	6	1	0	0	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	3	1	0	1	0	2	2	1	9	7	17	15	4	6	3	76

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLV2
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	1	1	1	0	0	0	1	0	0	2	2	4	2	0	1	3	18
3.51- 7.50	1	1	0	0	0	0	0	0	0	3	7	9	5	2	3	2	33
7.51-12.50	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	6
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	2	1	0	0	0	1	0	0	6	11	16	7	2	4	5	57

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0.76- 3.50	19	17	14	9	2	10	7	10	16	6	16	24	16	24	16	16	222
3.51- 7.50	12	6	5	1	2	0	1	0	13	25	22	39	29	12	18	14	199
7.51-12.50	0	0	0	0	0	0	0	0	0	4	10	6	2	0	0	0	22
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	31	23	19	10	4	10	8	10	29	35	48	69	48	36	34	30	445

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	3
0.76- 3.50	14	13	18	16	17	27	33	40	38	30	17	4	6	1	8	10	292
3.51- 7.50	6	1	0	0	1	0	0	1	3	24	9	5	6	1	1	3	61
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
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	20	14	18	16	18	27	33	41	41	54	26	11	13	2	9	13	359

STABILITY CLASS F

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	13
0.76- 3.50	0	4	7	18	21	45	101	65	25	12	2	3	0	0	1	0	304
3.51- 7.50	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	4	7	18	21	45	101	65	29	12	2	3	0	0	1	0	321

PROGRAM: JFD VERSION: 5P

BEAUTE VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLB02
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS G

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	9
0.76- 3.50	2	0	1	8	21	74	228	43	16	4	0	0	0	0	0	0	397
3.51- 7.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	1	8	21	74	228	43	17	4	0	0	0	0	0	0	407

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	26
0.76- 3.50	50	45	45	57	68	166	381	168	99	59	40	40	29	29	32	36	1344
3.51- 7.50	53	25	17	8	9	3	8	14	38	96	77	96	79	38	40	36	637
7.51-12.50	0	0	0	0	0	0	0	0	4	11	27	23	4	0	1	0	70
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	103	70	62	65	77	169	389	182	141	166	144	160	113	67	73	72	2079

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

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

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2079

TOTAL NUMBER OF MISSING OBSERVATIONS: 129

PERCENT DATA RECOVERY FOR THIS PERIOD: 94.2 %

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
19.91	3.66	2.74	21.40	17.27	15.44	19.58

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	43	24	15	13	12	13	16	21	24	46	50	44	30	23	19	21	0
B	5	3	1	0	1	0	2	2	1	9	7	17	15	4	6	3	0
C	2	2	1	0	0	0	1	0	0	6	11	16	7	2	4	5	0
D	31	23	19	10	4	10	8	10	29	35	48	69	48	36	34	30	1
E	20	14	18	16	18	27	33	41	41	54	26	11	13	2	9	13	3
F	0	4	7	18	21	45	101	65	29	12	2	3	0	0	1	0	13
G	2	0	1	8	21	74	228	43	17	4	0	0	0	0	0	0	9
TOTAL	103	70	62	65	77	169	389	182	141	166	144	160	113	67	73	72	26

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	1	4	2	4	5	4	0	2	1	2	2	2	0	0	0	30
7.51-12.50	5	4	4	6	0	1	1	8	4	4	0	1	2	3	2	1	46
12.51-18.50	0	1	3	0	0	0	0	3	4	6	0	0	0	0	0	0	17
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	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	6	6	11	8	4	6	5	11	10	11	2	4	4	3	2	1	94

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	3	1	2	9	9	9	7	5	4	3	5	6	7	6	3	3	82
3.51- 7.50	18	6	10	9	13	7	11	9	21	19	24	32	30	11	8	11	239
7.51-12.50	43	19	8	6	4	4	16	24	29	46	55	48	57	51	26	26	462
12.51-18.50	7	14	6	0	1	0	1	5	9	13	46	28	15	16	3	7	171
18.51-24.00	0	0	0	0	0	0	2	1	0	2	9	0	3	5	1	0	23
>24.00	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	3
TOTAL	71	40	26	24	27	20	37	44	63	84	139	115	112	90	41	47	980

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
0.76- 3.50	3	5	8	10	10	24	9	5	10	6	17	11	8	5	5	6	142
3.51- 7.50	8	8	19	14	8	28	12	5	7	11	19	22	27	11	7	3	209
7.51-12.50	4	9	5	9	1	5	9	11	18	28	28	4	20	8	4	2	165
12.51-18.50	2	4	1	0	0	4	1	11	9	23	31	0	1	0	0	0	87
18.51-24.00	0	1	0	0	0	0	1	1	0	0	3	0	1	0	0	0	7
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	17	27	33	33	19	61	32	33	44	68	98	37	58	24	16	11	613

STABILITY CLASS F

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
0.76- 3.50	4	8	18	16	24	21	9	8	13	8	17	14	6	17	7	12	202
3.51- 7.50	3	9	14	18	9	9	4	7	17	12	13	10	9	7	5	3	149
7.51-12.50	0	5	0	6	3	1	1	3	4	4	5	0	3	2	0	1	38
12.51-18.50	0	0	1	1	3	0	0	0	4	3	4	0	1	0	0	0	17
18.51-24.00	0	0	0	0	0	0	0	0	1	1	0	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	7	22	33	41	39	31	14	18	39	28	39	24	19	26	12	16	409

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS G

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	0	0	0	1	1	2	3	2	1	2	2	0	0	0	0	14
3.51- 7.50	0	0	0	0	0	3	1	0	3	1	0	0	0	0	0	0	8
7.51-12.50	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	6
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	4	3	3	10	3	2	2	0	0	0	0	28

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	3
0.76- 3.50	10	14	20	35	44	55	27	21	29	18	41	33	21	28	15	21	440
3.51- 7.50	30	24	48	43	34	52	33	21	50	44	58	66	68	29	20	17	637
7.51-12.50	52	39	17	33	10	13	29	48	60	83	88	53	82	64	32	30	733
12.51-18.50	9	19	13	1	4	4	2	20	29	45	81	28	17	16	3	7	298
18.51-24.00	0	1	0	0	0	0	3	2	2	3	12	1	4	5	1	0	34
>24.00	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	4
TOTAL	101	97	106	112	92	124	94	112	170	194	280	182	193	143	71	75	2149

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLV2
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

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

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2149

TOTAL NUMBER OF MISSING OBSERVATIONS: 59

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.3 %

MEAN WIND SPEED FOR THIS PERIOD: 7.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	1.16	4.37	45.60	28.52	19.03	1.30

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	2	3	6	2	2	3	3	4	0	0	0	0	0	0	0	0
C	6	6	11	8	4	6	5	11	10	11	2	4	4	3	2	1	0
D	71	40	26	24	27	20	37	44	63	84	139	115	112	90	41	47	0
E	17	27	33	33	19	61	32	33	44	68	98	37	58	24	16	11	2
F	7	22	33	41	39	31	14	18	39	28	39	24	19	26	12	16	1
G	0	0	0	0	1	4	3	3	10	3	2	2	0	0	0	0	0
TOTAL	101	97	106	112	92	124	94	112	170	194	280	182	193	143	71	75	3

Beaver Valley
Joint Frequency Distribution Tables
for
Batch Releases

Third Quarter 1985

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS C

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

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT500.00 FEET

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

STABILITY CLASS D

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

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT500.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	0	1	0	0	0	0	1	1	1	0	0	0	0	0	1
7.51-12.50	1	1	0	0	1	0	1	0	1	1	0	3	3	3	4	1	20
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	1	5
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	2	0	1	1	1	1	0	2	2	3	3	3	5	4	2	31

PROGRAM: JED VERSION: 5P

BEAVER VALLEY JED - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS E

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

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

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

STABILITY CLASS F

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

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

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

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: DLW02
 DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

STABILITY CLASS G

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

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

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

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	0	2	1	1	1	6	0	0	0	0	0	0	1	1	0	0	13
3.51- 7.50	0	2	1	3	0	2	0	0	1	1	1	0	0	0	1	0	12
7.51-12.50	1	1	0	1	1	0	2	0	3	3	1	4	3	4	4	1	29
12.51-18.50	0	0	0	0	0	0	0	0	1	2	5	0	0	2	0	1	11
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	5	2	5	2	8	2	0	5	7	7	4	4	7	5	2	66

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
SITE IDENTIFIER: DLBV2
DATA PERIOD EXAMINED: 7/ 1/85 - 9/30/85

*** THIRD QUARTER 1985 ***

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

TOTAL NUMBER OF OBSERVATIONS: 66
TOTAL NUMBER OF VALID OBSERVATIONS: 66
TOTAL NUMBER OF MISSING OBSERVATIONS: 0
PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %
MEAN WIND SPEED FOR THIS PERIOD: 8.5 MPH
TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

	A	B	C	D	E	F	G
	0.00	0.00	1.52	46.97	33.33	18.18	0.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

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

Beaver Valley
Listings of Meteorological Data
for
Periods of Gaseous Effluent Releases
at
The 150-Ft Level
(Ground-Level)

PROGRAM: LIST VERSION: 2P

TIME OF DAY: 11:01:51

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 35-FT LEVEL BATCH RELEASE

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

YR	MO	DY	HR	35 FT			150 FT			500 FT			AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
				WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)					
85	8	31	15	3.1	47	99.9 -	6.1	85	99.9 -	8.6	82	99.9 -	64.4	999.9	-1.2 A	-3.4 D	99.99
85	8	31	16	2.5	159	99.9 -	3.3	138	99.9 -	3.5	122	99.9 -	66.1	999.9	-1.2 A	-3.4 D	99.99

Beaver Valley
Listings of Meteorological Data
for
Periods of Gaseous Effluent Releases
at
The 500-Ft Level
(Elevated)

PROGRAM: LIST VERSION: 2P

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

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

YR	MO	BY	HR	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	WIND SPEED (MPH)	WIND DIR (DEG)	STD DEV SC (DEG)	AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC (IN)
85	7	13	14	6.0	197	99.9	8.5	206	99.9	9.6	204	99.9	85.7	999.9	-1.8 A	-3.6 D	99.99
85	7	13	15	3.8	235	99.9	4.6	218	99.9	6.6	207	99.9	86.7	999.9	-1.3 A	-3.7 D	99.99
85	7	13	16	4.4	229	99.9	5.7	219	99.9	6.3	214	99.9	86.2	999.9	-1.0 C	-3.2 D	99.99
85	7	13	17	2.8	224	99.9	3.9	167	99.9	5.1	178	99.9	87.2	999.9	-1.3 A	-3.6 D	99.99
85	7	13	18	4.3	190	99.9	6.6	187	99.9	7.7	182	99.9	86.5	999.9	-0.9 B	-2.9 D	99.99
85	7	13	19	1.7	158	99.9	5.5	162	99.9	11.1	171	99.9	83.8	999.9	0.3 E	-1.0 E	99.99
85	7	13	20	1.4	165	99.9	3.3	165	99.9	11.3	179	99.9	82.1	999.9	0.7 E	0.0 E	99.99
85	7	13	21	2.2	183	99.9	5.3	183	99.9	15.0	190	99.9	76.8	999.9	3.9 G	4.3 F	99.99
85	7	13	22	2.1	139	99.9	6.8	189	99.9	13.8	214	99.9	73.9	999.9	5.1 G	6.2 F	99.99
85	7	13	23	2.5	178	99.9	7.2	193	99.9	12.3	195	99.9	73.5	999.9	4.2 G	4.1 F	99.99
85	7	13	24	1.9	212	99.9	7.1	179	99.9	21.7	195	99.9	72.7	999.9	3.5 G	5.8 F	99.99
85	7	14	1	1.8	178	99.9	4.2	236	99.9	10.3	212	99.9	74.0	999.9	1.4 F	1.0 E	99.99
85	7	14	2	3.0	174	99.9	6.5	194	99.9	13.2	203	99.9	74.0	999.9	1.1 F	0.6 E	99.99
85	7	14	3	3.5	195	99.9	6.7	209	99.9	14.5	206	99.9	74.4	999.9	0.3 E	-0.5 E	99.99
85	7	14	4	2.7	186	99.9	6.6	218	99.9	13.6	216	99.9	73.5	999.9	1.3 F	0.4 E	99.99
85	7	14	5	1.9	149	99.9	4.3	219	99.9	11.0	225	99.9	72.6	999.9	2.0 F	0.9 E	99.99
85	8	2	16	4.3	108	99.9	6.8	95	99.9	8.5	77	99.9	78.4	999.9	-2.0 A	-4.3 C	99.99
85	8	2	17	3.3	37	99.9	4.8	54	99.9	5.7	60	99.9	78.2	999.9	-1.4 A	-3.8 D	99.99
85	8	2	18	4.7	356	99.9	7.5	15	99.9	9.8	23	99.9	78.3	999.9	-1.6 A	-3.8 D	99.99
85	8	2	19	2.4	25	99.9	3.5	16	99.9	7.4	21	99.9	77.0	999.9	-0.9 D	-3.0 D	99.99
85	8	2	20	1.3	167	99.9	1.8	70	99.9	4.9	50	99.9	72.9	999.9	0.9 E	0.0 E	99.99
85	8	2	21	1.3	128	99.9	1.8	58	99.9	2.5	54	99.9	63.8	999.9	4.7 G	8.0 F	99.99
85	8	2	22	1.2	130	99.9	1.9	131	99.9	1.9	301	99.9	59.7	999.9	5.4 G	9.6 F	99.99
85	8	3	1	1.3	135	99.9	1.5	74	99.9	1.8	15	99.9	55.0	999.9	4.2 G	7.5 F	99.99
85	8	3	2	1.9	136	99.9	3.7	204	99.9	1.6	18	99.9	54.7	999.9	3.3 G	6.8 F	99.99
85	8	3	5	0.8	112	99.9	2.0	190	99.9	2.1	268	99.9	52.1	999.9	3.3 G	3.7 E	99.99
85	8	3	6	1.2	144	99.9	1.9	?	99.9	0.8	93	99.9	52.3	999.9	1.8 F	3.0 E	99.99
85	8	31	15	3.1	47	99.9	6.1	85	99.9	8.6	82	99.9	64.4	999.9	-1.2 A	-3.4 D	99.99
85	8	31	16	2.5	159	99.9	3.3	138	99.9	3.5	122	99.9	66.1	999.9	-1.2 A	-3.4 D	99.99
85	8	31	19	2.2	137	99.9	6.5	139	99.9	7.8	133	99.9	66.0	999.9	-1.1 B	-3.0 D	99.99
85	8	31	20	1.4	82	99.9	5.5	135	99.9	6.5	120	99.9	61.6	999.9	0.9 E	0.4 E	99.99
85	8	31	21	1.6	88	99.9	4.4	135	99.9	10.3	128	99.9	58.0	999.9	2.4 F	2.8 E	99.99
85	8	31	22	1.8	90	99.9	3.1	76	99.9	3.8	115	99.9	56.0	999.9	2.4 F	2.8 E	99.99
85	8	31	23	0.9	132	99.9	2.4	63	99.9	2.7	115	99.9	53.1	999.9	4.0 G	3.8 E	99.99
85	8	31	24	1.0	134	99.9	2.3	45	99.9	3.4	106	99.9	51.8	999.9	3.3 G	4.6 F	99.99
85	9	1	1	1.1	130	99.9	2.7	71	99.9	3.0	116	99.9	50.9	999.9	2.7 G	4.5 F	99.99
85	9	1	2	1.7	132	99.9	1.2	72	99.9	3.3	121	99.9	50.4	999.9	2.0 F	3.7 E	99.99
85	9	1	3	1.7	119	99.9	3.1	69	99.9	2.7	106	99.9	51.0	999.9	1.0 F	2.5 E	99.99
85	9	1	4	1.3	122	99.9	1.7	104	99.9	2.4	64	99.9	51.0	999.9	0.4 E	1.8 E	99.99
85	9	1	5	1.8	149	99.9	2.9	93	99.9	3.8	75	99.9	49.9	999.9	0.3 E	2.4 E	99.99
85	9	1	6	1.3	142	99.9	3.3	104	99.9	4.6	59	99.9	49.2	999.9	1.0 F	1.9 E	99.99
85	9	10	2	2.5	183	99.9	6.2	207	99.9	13.1	217	99.9	73.5	999.9	0.5 E	0.0 E	99.99
85	9	10	3	4.5	210	99.9	7.4	226	99.9	12.8	231	99.9	75.2	999.9	0.1 E	-1.3 D	99.99
85	9	10	4	6.0	219	99.9	8.0	231	99.9	14.0	233	99.9	74.9	999.9	-0.2 E	-1.8 D	99.99
85	9	10	5	3.1	235	99.9	5.0	238	99.9	8.5	247	99.9	74.2	999.9	-0.2 E	-1.8 D	99.99
85	9	10	6	2.2	207	99.9	4.6	243	99.9	9.6	252	99.9	73.4	999.9	-0.1 E	-1.4 D	99.99
85	9	10	7	2.9	219	99.9	5.1	226	99.9	8.6	243	99.9	72.0	999.9	0.0 E	-1.0 E	99.99
85	9	10	8	2.2	225	99.9	3.8	258	99.9	7.7	256	99.9	72.4	999.9	-0.4 D	-1.9 D	99.99

PROGRAM: LIST VERSION: 2P

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

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

YR	MO	DY	HR	35 FT			150 FT			500 FT			AMB. TEMP 35F (F)	DEW POINT 35F (F)	DELTA T 150-35 (F)	DELTA T 500-35 (F)	RAIN FALL SC(IN)
				WIND SPED (MPH)	WIND DIR (DEG)	STD DEV (DEG) SC	WIND SPED (MPH)	WIND DIR (DEG) SC	STD DEV (DEG) SC	WIND SPED (MPH)	WIND DIR (DEG) SC	STD DEV (DEG) SC					
412,3	(F4.1,F3.0,3X,F4.1)			4E5.1,F5.2)													
85	9	10	9	4.8	267	99.9 -	8.9	277	99.9 -	12.4	279	99.9 -	73.7	999.9	-0.5 D	-2.5 D	99.99
85	9	10	10	4.5	318	99.9 -	9.5	304	99.9 -	12.2	298	99.9 -	74.2	999.9	-0.8 D	-2.8 D	99.99
85	9	10	11	4.1	316	99.9 -	7.5	300	99.9 -	9.9	294	99.9 -	75.4	999.9	-1.2 A	-3.2 D	99.99
85	9	10	12	5.8	268	99.9 -	10.1	275	99.9 -	12.7	282	99.9 -	77.3	999.9	-1.1 B	-3.0 D	99.99
85	9	10	13	6.8	282	99.9 -	10.6	284	99.9 -	14.6	284	99.9 -	79.8	999.9	-1.6 A	-3.8 D	99.99
85	9	10	14	7.0	257	99.9 -	10.2	266	99.9 -	12.4	273	99.9 -	80.1	999.9	-1.6 A	-3.6 D	99.99
85	9	10	15	6.4	260	99.9 -	9.8	265	99.9 -	11.7	270	99.9 -	80.8	999.9	-1.7 A	-3.6 D	99.99
85	9	10	16	5.3	319	99.9 -	8.3	329	99.9 -	11.0	316	99.9 -	76.6	999.9	-1.0 C	-2.9 D	99.99
85	9	10	17	7.0	327	99.9 -	11.8	334	99.9 -	14.0	330	99.9 -	75.4	999.9	-1.0 C	-3.1 D	99.99
85	9	10	18	5.1	305	99.9 -	9.6	304	99.9 -	10.7	310	99.9 -	72.2	999.9	-0.8 D	-2.8 D	99.99
85	9	10	19	4.1	299	99.9 -	8.4	300	99.9 -	10.6	298	99.9 -	71.3	999.9	-0.6 D	-2.6 D	99.99
85	9	10	20	5.2	300	99.9 -	9.5	299	99.9 -	11.6	304	99.9 -	70.1	999.9	-0.5 D	-2.4 D	99.99
85	9	10	21	5.2	339	99.9 -	9.1	346	99.9 -	11.7	352	99.9 -	68.8	999.9	-0.6 D	-2.6 D	99.99
85	9	10	22	3.3	5	99.9 -	5.1	358	99.9 -	8.5	348	99.9 -	66.7	999.9	-0.5 D	-2.4 D	99.99
85	7	12	19	3.6	339	99.9 -	5.7	319	99.9 -	9.4	304	99.9 -	82.0	999.9	-0.5 D	-2.2 D	99.99
85	7	12	20	1.4	227	99.9 -	3.7	315	99.9 -	9.2	298	99.9 -	78.6	999.9	0.8 E	0.3 E	99.99
85	7	12	21	1.4	118	99.9 -	3.6	204	99.9 -	6.6	304	99.9 -	71.8	999.9	4.6 G	5.7 F	99.99
85	7	12	22	1.6	90	99.9 -	2.0	100	99.9 -	4.3	31	99.9 -	68.1	999.9	3.9 G	5.0 F	99.99

Beaver Valley
Joint Frequency Distribution Tables
for
Continuous Release

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

Fourth Quarter 1985

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS A

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0 76- 3 50	1	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	4
3 51- 7 50	4	6	3	6	3	1	8	5	4	5	8	4	4	4	1	2	68
7 51-12 50	0	0	0	0	1	0	0	0	1	1	8	4	4	2	1	0	22
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	5	6	3	6	4	3	8	5	5	6	17	8	8	6	3	2	95

STABILITY CLASS B

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0 76- 3 50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
3 51- 7 50	1	1	0	1	0	1	0	0	1	1	2	1	5	2	0	2	18
7 51-12 50	0	0	0	0	0	0	0	0	0	1	2	1	3	2	0	0	9
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	0	1	0	2	0	0	1	2	4	2	8	4	0	2	28

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DL6V2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76-3.50	1	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0
3.51-7.50	1	1	0	2	1	0	0	0	0	1	1	1	1	1	3	0	13
7.51-12.50	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	1	0	2	1	1	0	0	0	2	3	2	3	2	4	0	23

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76-3.50	6	17	38	32	24	8	6	8	9	5	6	3	7	15	16	8	208
3.51-7.50	8	8	8	15	16	5	3	2	21	46	67	50	59	56	34	9	407
7.51-12.50	0	0	0	0	1	0	0	0	2	11	46	32	45	16	3	1	157
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	19	2	0	0	0	23
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	2	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	14	25	46	47	41	13	9	10	32	62	121	106	113	87	53	18	797

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	5
0.76- 3.50	15	30	64	58	35	26	14	28	31	21	22	9	12	20	21	20	426
3.51- 7.50	9	17	25	43	8	0	1	1	23	78	24	22	17	16	17	15	316
7.51-12.50	0	0	0	0	0	0	0	0	2	14	12	12	3	0	1	0	44
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	1	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	24	47	89	101	43	26	15	29	56	113	59	44	32	36	39	35	793

STABILITY CLASS F

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
0.76- 3.50	0	9	10	17	26	18	26	15	17	8	3	2	1	1	0	2	155
3.51- 7.50	1	5	0	0	0	0	0	0	6	14	0	0	0	0	0	0	26
7.51-12.50	0	0	0	0	0	0	0	0	0	2	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	1	14	10	17	26	18	26	15	23	24	3	2	1	1	0	2	185

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS G

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	7
0 76- 3 50	0	2	2	19	14	54	78	27	13	4	1	0	2	0	1	0	217
3 51- 7 50	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
7 51-12 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 51-18 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24 00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	2	2	19	14	54	78	27	17	4	1	0	2	0	1	0	228

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	14
0 76- 3 50	23	58	114	126	99	110	124	78	70	38	33	14	23	37	39	30	1016
3 51- 7 50	24	38	36	67	28	7	12	8	59	145	102	78	86	79	55	28	852
7 51-12 50	0	0	0	0	2	0	0	0	5	30	69	50	56	20	6	1	239
12 51-18 50	0	0	0	0	0	0	0	0	0	0	4	20	2	0	0	0	26
18 51-24 00	0	0	0	0	0	0	0	0	0	0	0	2	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	47	96	150	193	129	117	136	86	134	213	208	164	167	136	100	59	2149

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

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

TOTAL NUMBER OF OBSERVATIONS: 2208
 TOTAL NUMBER OF VALID OBSERVATIONS: 2149
 TOTAL NUMBER OF MISSING OBSERVATIONS: 59
 PERCENT DATA RECOVERY FOR THIS PERIOD: 97.3 %
 MEAN WIND SPEED FOR THIS PERIOD: 4.3 MPH
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
4.42	1.30	1.07	37.09	36.90	8.61	10.61

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	5	6	3	6	4	3	8	5	5	6	17	8	8	6	3	2	0
B	1	1	0	1	0	2	0	0	1	2	4	2	8	4	0	2	0
C	2	1	0	2	1	1	0	0	0	2	3	2	3	2	4	0	0
D	14	25	46	47	41	13	9	10	32	62	121	106	113	87	53	18	0
E	24	47	89	101	43	26	15	29	56	113	59	44	32	36	39	35	5
F	1	14	10	17	26	18	26	15	23	24	3	2	1	1	0	2	2
G	0	2	2	19	14	54	78	27	17	4	1	0	2	0	1	0	7
TOTAL	47	96	150	193	129	117	136	86	134	213	208	164	167	136	100	59	14

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS C

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	1	0	3	1	0	0	2	1	1	1	0	0	0	0	0	0	11
12.51-18.50	0	0	0	0	2	0	0	0	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	2	0	3	1	3	0	2	1	1	1	0	0	0	0	0	0	14

STABILITY CLASS D

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.76- 3.50	3	6	3	3	7	7	2	8	3	3	2	2	1	5	4	4	63
3.51- 7.50	15	8	9	5	26	18	12	7	10	6	23	18	24	10	4	9	204
7.51-12.50	23	14	4	28	58	44	16	3	14	31	69	46	47	63	37	13	510
12.51-18.50	9	9	18	8	32	35	11	5	7	40	91	48	114	54	9	10	500
18.51-24.00	0	3	3	3	2	3	2	0	2	3	22	8	42	18	1	0	112
>24.00	0	0	0	0	0	1	0	0	0	1	0	17	16	2	0	0	37
TOTAL	50	40	37	47	125	108	43	23	36	84	207	139	244	152	55	36	1426

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS E

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	1	1	2	1	5	3	5	1	1	2	4	4	6	0	1	0	37
3.51- 7.50	6	2	8	9	13	13	8	16	6	4	9	13	6	7	4	2	126
7.51-12.50	7	4	1	7	8	14	7	4	17	42	19	22	10	7	3	4	176
12.51-18.50	2	8	2	10	7	2	2	2	13	25	42	3	7	1	1	0	127
18.51-24.00	0	0	2	0	0	0	2	0	1	1	9	3	1	0	0	0	19
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	16	15	15	27	33	32	24	23	38	74	83	45	30	15	9	6	485

STABILITY CLASS F

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
0.76- 3.50	0	2	2	2	4	1	1	4	4	1	7	2	1	1	0	0	32
3.51- 7.50	2	2	9	7	3	3	7	9	5	6	12	2	3	1	0	0	71
7.51-12.50	1	0	2	3	0	4	6	1	5	11	11	2	3	4	1	1	55
12.51-18.50	0	0	0	2	0	0	0	3	6	8	9	0	0	0	0	0	28
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	4	13	14	7	8	14	17	20	26	39	6	7	6	1	1	186

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS G

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	
0.75- 3.50	1	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	7
3.51- 7.50	1	0	0	0	0	1	0	0	4	5	1	0	0	0	0	0	0	12
7.51-12.50	0	0	0	0	0	2	0	2	3	4	1	0	0	0	0	0	0	12
12.51-18.50	0	0	0	0	0	0	0	0	2	2	0	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	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	0	0	0	3	0	2	10	14	3	1	0	0	0	0	0	35

STABILITY CLASS ALL

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

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.75- 3.50	5	9	7	6	16	11	8	13	9	9	14	9	8	6	5	4	139
3.51- 7.50	25	12	26	21	42	35	27	32	25	21	45	33	33	18	8	11	414
7.51-12.50	32	18	10	39	67	64	31	11	40	89	100	70	60	74	41	18	764
12.51-18.50	11	17	20	21	41	37	13	10	28	75	142	51	121	55	10	10	662
18.51-24.00	0	3	5	3	2	3	4	0	3	4	31	11	43	18	1	0	131
>24.00	0	0	0	0	0	1	2	0	0	1	0	17	16	2	0	0	37
TOTAL	73	59	68	90	168	151	83	66	105	199	332	191	281	173	65	43	2147

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED CONTINUOUS RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

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

TOTAL NUMBER OF OBSERVATIONS: 2208
 TOTAL NUMBER OF VALID OBSERVATIONS: 2147
 TOTAL NUMBER OF MISSING OBSERVATIONS: 61
 PERCENT DATA RECOVERY FOR THIS PERIOD: 97.2 %
 MEAN WIND SPEED FOR THIS PERIOD: 11.3 MPH
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	0.05	0.65	66.42	22.59	8.66	1.63

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
C	2	0	3	1	3	0	2	1	1	1	0	0	0	0	0	0	0
D	50	40	37	47	125	108	43	23	36	84	207	139	244	152	55	36	0
E	16	15	15	27	33	32	24	23	38	74	83	45	30	15	9	6	0
F	3	4	13	14	7	8	14	17	20	26	39	6	7	6	1	1	0
G	2	0	0	0	0	3	0	2	10	14	3	1	0	0	0	0	0
TOTAL	73	59	68	90	168	151	83	66	105	199	332	191	281	173	65	43	0

Beaver Valley
Joint Frequency Distribution Tables
for
Batch Releases

Fourth Quarter 1985

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS G

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

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

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

STABILITY CLASS ALL

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

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

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

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - GROUND LEVEL BATCH RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

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

TOTAL NUMBER OF OBSERVATIONS: 1
 TOTAL NUMBER OF VALID OBSERVATIONS: 1
 TOTAL NUMBER OF MISSING OBSERVATIONS: 0
 PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %
 MEAN WIND SPEED FOR THIS PERIOD: 8.6 MPH
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	0.00	0.00	100.00	0.00	0.00	0.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

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

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS C

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

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

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

STABILITY CLASS D

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

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

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

PROGRAM JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 350.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0 76- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 500.0 AND 350.0 FEET
 WIND MEASURED AT: 500.0 FEET
 WIND THRESHOLD AT: 0.75 MPH

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

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0 76- 3.50	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0
3 51- 7.50	0	0	1	0	0	0	1	2	0	0	0	0	1	0	0	0	3
7 51-12.50	1	1	0	0	0	0	0	0	0	0	2	0	1	0	0	0	5
12 51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
18 51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	1	0	1	1	1	2	0	0	3	0	3	0	0	0	14

PROGRAM: JFD VERSION: 5P

BEAVER VALLEY JFD - ELEVATED BATCH RELEASE
 SITE IDENTIFIER: DLBV2
 DATA PERIOD EXAMINED: 10/ 1/85 - 12/31/85

*** FOURTH QUARTER 1985 ***

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

TOTAL NUMBER OF OBSERVATIONS: 14
 TOTAL NUMBER OF VALID OBSERVATIONS: 14
 TOTAL NUMBER OF MISSING OBSERVATIONS: 0
 PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %
 MEAN WIND SPEED FOR THIS PERIOD: 7.0 MPH
 TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.00	0.00	0.00	42.86	57.14	0.00	0.00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

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

Beaver Valley
Listings of Meteorological Data
for
Periods of Gaseous Effluent Releases
at
The 150-Ft Level
(Ground-Level)

PROGRAM LIST VERSION: 2P

TIME OF DAY: 16:19:12

LISTING FOR BEAVER VALLEY HOURLY METEOROLOGICAL DATA 35-FT LEVEL BATCH RELEASE

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

YR	MO	DY	HR	35 FT			150 FT			500 FT			AMB.	DEW	DELTA T		RAIN					
				WIND SPEED	WIND DIR	STD DEV	WIND SPEED	WIND DIR	STD DEV	WIND SPEED	WIND DIR	STD DEV	TEMP 35F	POINT 35F	150-35 (F)	500-35 (F)	SC	FALL				
41	2	27	15	8.6	253	99.9	-	12.4	258	99.9	-	15.2	253	99.9	-	31.9	15.6	-0.5	D	-2.4	D	0.00

412.3(F4.1,F3.0,3X,F4.1),4F5.1,F5.2)

Beaver Valley
Listings of Meteorological Data
for
Periods of Gaseous Effluent Releases
at
The 500-Ft Level
(Elevated)

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

-----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)
85	10	14	17	5.0	245	99.9	-	9.4	267	99.9	-	14.9	265	99.9	-	70.3	63.8	-0.3 E	-1.6 D	0.00
85	10	14	18	2.6	231	99.9	-	4.0	264	99.9	-	7.0	259	99.9	-	70.4	63.9	-0.3 E	-1.9 D	0.00
85	10	14	19	2.1	165	99.9	-	2.9	244	99.9	-	9.9	268	99.9	-	68.0	64.4	0.4 E	0.1 E	0.00
85	10	14	20	1.3	162	99.9	-	3.6	194	99.9	-	2.8	224	99.9	-	64.5	63.6	3.0 G	2.3 E	0.00
85	10	14	21	1.1	197	99.9	-	2.1	26	99.9	-	1.0	84	99.9	-	63.6	63.0	1.1 F	2.7 E	0.00
85	10	14	22	0.8	175	99.9	-	1.2	120	99.9	-	5.0	56	99.9	-	63.1	62.8	0.9 E	0.7 E	0.00
85	10	14	23	2.1	132	99.9	-	2.1	12	99.9	-	3.4	114	99.9	-	63.1	63.1	0.8 E	0.3 E	0.04
85	10	14	24	1.4	84	99.9	-	2.7	51	99.9	-	5.5	126	99.9	-	63.6	63.5	0.3 E	-0.6 E	0.00
85	10	15	1	1.5	60	99.9	-	3.2	60	99.9	-	4.0	164	99.9	-	63.3	63.3	0.4 E	0.3 E	0.00
85	10	15	2	1.4	44	99.9	-	2.2	34	99.9	-	6.6	160	99.9	-	63.0	63.0	0.7 E	1.0 E	0.00
85	11	21	12	5.9	351	99.9	-	8.1	355	99.9	-	9.7	358	99.9	-	34.4	25.6	-0.8 D	-2.9 D	0.00
85	11	21	13	5.2	21	99.9	-	8.5	24	99.9	-	9.2	20	99.9	-	34.7	25.3	-0.9 D	-2.9 D	0.00
85	11	29	12	2.8	92	99.9	-	5.2	90	99.9	-	7.7	230	99.9	-	38.8	33.7	-0.5 D	-2.5 D	0.00
85	11	29	13	4.0	89	99.9	-	7.7	85	99.9	-	10.8	227	99.9	-	39.0	33.5	-0.6 D	-2.5 D	0.00