

JUL 05 1984

Docket No. 50-412

MEMORANDUM FOR: Frank J. Congel, Chief
Radiological Assessment Branch, DSI

FROM: William P. Gammill, Chief
Meteorology and Effluent Treatment Branch, DSI

SUBJECT: METEOROLOGICAL INPUT TO BEAVER VALLEY, UNIT 2, APPENDIX I
EVALUATION

Enclosed are calculated relative concentration (X/Q) and relative deposition (D/Q) values at specified points of interest and as functions of direction out to a distance of 80 km from the Beaver Valley plant. Punched-card output was provided to T. Mo on 6/27/84. Also enclosed is a description of the meteorological data base and calculational methodology for inclusion in your development of Appendix D for the Draft Environmental Statement.

Receptor information was initially provided in the 3/26/84 memorandum from J. Nehemias to I. Spickler, and revised information was provided in the 5/10/84 memorandum from E. Branagan to I. Spickler. Release point characteristics were derived from the source term information included in my 3/20/84 memorandum to you, and through subsequent conversations with R. Fell. Adjustments to the straight-line atmospheric dispersion model for spatial and temporal variations in airflow were developed by the applicant, and presented in Tables 2.3-40 (for ground level releases) and 2.3-59 (for elevated releases) of the Final Safety Analysis Report (FSAR).

The enclosed X/Q and D/Q are somewhat different than those calculated by the applicant, primarily because of different assumptions about release point characteristics. The applicant assumed (from Table 2.3-42 of the FSAR) that all releases except those from the process vent were ground level with mixing in the turbulent wake of plant structures. Both the applicant and staff evaluated releases from the process vent as elevated. However, the staff assumed all releases from the containment vent to be a mixture of ground level and elevated, except for the transport directions (affected sectors) of north-northeast, northeast, east-southeast, and southeast. Dispersion in these transport directions is affected by airflow around the large natural draft cooling towers, and, for these transport directions,

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F. J. Congel

- 2 -

JUL 05 1984

releases from the containment vent were assumed to be at ground level with mixing in the turbulent wake of plant structures. The staff also assumed releases from the turbine building to be at ground level.

This evaluation was performed by E. Markee and any questions should be directed to him at x27635.

Original signed by:
William P. Gammill

William P. Gammill, Chief
Meteorology and Effluent Treatment Branch
Division of Systems Integration

Enclosure:
As stated

cc: w/o enclosure
Acting Director, DSI
D. Muller

cc: w/enclosure
E. Branagan
T. Mo
I. Spickler
E. Markee

DISTRIBUTION:
Docket File 50-412
METB Docket File
METB Reading File (w/o encl)
WPGammill

28 Aug 84

OFFICE	DSI:RP:METB	DSI:RP:METB	DSI:RP:METB				
SURNAME	EHMarkee:dj	ISpickler	WPGammill				
DATE	07/03/84	07/5/84	07/5/84				

BEAVER VALLEY POWER STATION, UNIT 2
METEOROLOGICAL INPUT TO APPENDIX D
OF DRAFT ENVIRONMENTAL STATEMENT

Annual average relative concentration (X/Q) and relative deposition (D/Q) values were calculated using the straight-line Gaussian atmospheric dispersion model described in Regulatory Guide 1.111, modified to reflect potential spatial and temporal variations in airflow using site-specific correction factors developed by the applicant. Releases through the process vent (at the top of the cooling tower) were assumed to be elevated, and releases from the turbine building were assumed to be at ground level with mixing in the turbulent wake of plant structures. Releases through the containment vent were assumed to be partially elevated, except for the transport directions (affected sectors) of north-northeast, northeast, east-southeast, and southeast. Dispersion in these transport directions is affected by the large natural draft cooling towers, and, for these transport directions, releases from the containment vent were assumed to be at ground level with mixing in the turbulent wake of plant structures. Intermittent releases through the containment vent were evaluated using the methodology contained in NUREG/CR-2919.

A 5-year period of record (January 1977-December 1981) of onsite meteorological data was used for this evaluation. For releases from the containment and turbine building vents, wind speed and direction data were based on measurements made at the 10.7m (35-ft) level, and atmospheric stability was defined by the vertical temperature difference between the 45.7m (150-ft) and 10.7m levels. For releases through the process vent at

DESIGNATED ORIGINAL
Certified by alg 7/5/84

the top of the cooling tower, wind speed and direction data were based on measurements made at the 152m (499-ft) level, and atmospheric stability was defined by the vertical temperature difference between the 152m and 10.7m levels.

VAX/VMS BVRVLY
VAX/VMS BVRVLY
VAX/VMS BVRVLY

XQDQGR 15-MAY-1984 14146
XQDQGR 15-MAY-1984 14146
XQDQGR 15-MAY-1984 14146

LP801 15-MAY-1984 14146
LP801 15-MAY-1984 14146
LP801 15-MAY-1984 14146

DISK21[BVRVLY]XQDQGR.OUT;1
DISK21[BVRVLY]XQDQGR.OUT;1
DISK21[BVRVLY]XQDQGR.OUT;1

VAX/VMS
VAX/VMS
VAX/VMS

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BBB8 V V RRRH V V L Y Y
B B V V R H V V L Y Y
B B V V R H V V L Y Y
BBB8 V V RRRR V V L Y
B B V V R R V V L Y
B B V V R R V V L Y
BBB8 V R H V LLLL Y
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XX XX QQQQQ QQQQQQ QQQQQ QQQQQQ RRRRRRRR
XX XX QQQQQ QQQQQQ QQQQQ QQQQQQ RRRRRRRR
XX XX QQ QQ QQ QQ QQ GG RR RR
XX XX QQ QQ QQ QQ QQ GG RR RR
XX XX QQ QQ QQ QQ QQ GG RR RR
XX XX QQ QQ QQ QQ QQ GG RRRRRRRR
XX XX QQ QQ QQ QQ QQ GG RRRRRRRR
XX XX QQ QQ QQ QQ QQ GG GG GG GG RR RR
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B B V V R H V V L Y Y
BBB8 V V RRRR V V L Y
B B V V R R V V L Y
B B V V R R V V L Y
BBB8 V R H V LLLL Y
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VAX/VMS BVRVLY
VAX/VMS BVRVLY
VAX/VMS BVRVLY

XQDQGR 15-MAY-1984 14146
XQDQGR 15-MAY-1984 14146
XQDQGR 15-MAY-1984 14146

LP801 15-MAY-1984 14146
LP801 15-MAY-1984 14146
LP801 15-MAY-1984 14146

DISK21[BVRVLY]XQDQGR.OUT;1
DISK21[BVRVLY]XQDQGR.OUT;1
DISK21[BVRVLY]XQDQGR.OUT;1

VAX/VMS
VAX/VMS
VAX/VMS

1/ Continuous Ground Level Release
from Turbine Building vent

PRINTOUT OF INPUT CARDS

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1 10000 11110 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000
2 HEAVEN VALLEY, PA 1977 THRU 1981 JFU INFO CALM, 25M/3 HT=10.7M DELTA T=1-L
3 10 7 10 15 6 1 0.00
4 10.70 101.00 2.26 -8.00 50.00 113.00 145.00 107.00
5 0.000 0.000 1.000 0.00 3.00 1.00
6 0.00 0.00 2.00 1.00 4.00 2.00 9.00
7 2.00 3.00 4.00 6.00 1.00 7.00
8 10.00 12.00 8.00 9.00
9 59.00 51.00 62.00 36.00 45.00 43.00 43.00
10 169.00 86.00 94.00 84.00 80.00 43.00 43.00
11 257.00 82.00 25.00 37.00 41.00 21.00 32.00
12 50.00 10.00 3.00 3.00 0.00 1.00 1.00
13 0.00 0.00 0.00 0.00 0.00 0.00 0.00
14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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17 3.00 2.00 6.00 1.00 4.00 1.00 4.00
18 15.00 13.00 15.00 12.00 12.00 7.00 4.00
19 20.00 15.00 7.00 8.00 4.00 6.00 4.00
20 14.00 2.00 1.00 1.00 1.00 1.00 1.00
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26 8.00 4.00 12.00 15.00 10.00 8.00 7.00
27 10.00 20.00 13.00 15.00 10.00 11.00 4.00
28 31.00 3.00 2.00 7.00 6.00 0.00 0.00
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35 11.00 19.00 49.00 34.00 44.00 31.00 30.00
36 39.00 50.00 117.00 110.00 63.00 39.00 36.00
37 97.00 131.00 197.00 163.00 100.00 46.00 45.00
38 299.00 211.00 275.00 230.00 90.00 31.00 37.00
39 196.00 100.00 92.00 137.00 67.00 20.00 19.00
40 173.00 36.00 43.00 60.00 55.00 22.00 15.00
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98 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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[illegible]

HHABER VALLEY, PA 1977 THRU 1981 : JFH INFO CALLOS.25M/S H1010.7M DELTA 1010-L

TOTAL FREQUENCY DISTRIBUTION OF *in situ* SPERM AND OÖCYTES

ATROSPHERIC STABILITY CLASS A

[illegible]

INITIAL FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS d

U _{max} (m/s)	N	level	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
0.75	0.005	0.005	0.005	0.002	0.000	0.005	0.005	0.000	0.007	0.000	0.002	0.000	0.000	0.000	0.002	0.037
1.00	0.007	0.005	0.002	0.000	0.002	0.005	0.005	0.007	0.000	0.000	0.005	0.000	0.000	0.007	0.012	0.009
1.50	0.012	0.010	0.000	0.000	0.017	0.010	0.002	0.027	0.002	0.017	0.012	0.017	0.025	0.022	0.022	0.357
2.00	0.037	0.030	0.010	0.015	0.010	0.010	0.022	0.040	0.040	0.055	0.055	0.055	0.025	0.035	0.055	0.043
3.00	0.035	0.025	0.002	0.002	0.002	0.002	0.012	0.099	0.099	0.203	0.203	0.059	0.004	0.077	0.150	0.771
5.00	0.010	0.000	0.000	0.000	0.000	0.002	0.005	0.005	0.042	0.101	0.101	0.170	0.002	0.045	0.020	0.709
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.032	0.035	0.027	0.002	0.002	0.000	0.100
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.14	0.09	0.00	0.00	0.00	0.03	0.02	0.07	0.20	0.30	0.49	0.30	0.20	0.19	0.16	2.50

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS C

UMAX (m/s)	U	UNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.50	0.000	0.000	0.007	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.020
0.75	0.002	0.012	0.007	0.000	0.000	0.005	0.005	0.005	0.002	0.000	0.005	0.002	0.002	0.000	0.010	0.002	0.067
1.00	0.005	0.034	0.020	0.007	0.007	0.005	0.005	0.005	0.002	0.002	0.000	0.005	0.007	0.000	0.010	0.007	0.159
1.50	0.010	0.025	0.020	0.010	0.010	0.012	0.010	0.010	0.020	0.015	0.022	0.000	0.030	0.000	0.037	0.132	0.454
2.00	0.005	0.032	0.027	0.010	0.010	0.017	0.017	0.017	0.035	0.027	0.062	0.077	0.067	0.021	0.052	0.055	0.675
3.00	0.007	0.005	0.020	0.017	0.017	0.017	0.010	0.007	0.017	0.000	0.151	0.161	0.156	0.102	0.099	0.127	0.950
5.00	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.007	0.000	0.171	0.211	0.188	0.079	0.064	0.127	0.873
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.007	0.035	0.040	0.030	0.000	0.000	0.000	0.119
15.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.20	0.10	0.11	0.12	0.05	0.05	0.05	0.04	0.09	0.19	0.03	0.50	0.06	0.26	0.27	0.21	3.22

THE EFFECT OF RESTRICTION OF AIR SUPPLY AND VENTILATION

ATMOSPHERIC STABILITY CLASS U

Unit (1/5)	N	UNE	WE	TIME	E	ESE	SE	SE2	S	SSW	SW	WSW	W	WNW	W	WNW	TOTAL
0.25	0.045	0.000	0.021	0.019	0.013	0.013	0.013	0.000	0.009	0.004	0.003	0.003	0.003	0.001	0.003	0.000	0.120
0.50	0.027	0.007	0.121	0.000	0.077	0.077	0.070	0.025	0.052	0.022	0.027	0.015	0.017	0.005	0.022	0.000	0.730
0.75	0.000	0.129	0.209	0.213	0.156	0.097	0.089	0.009	0.067	0.030	0.027	0.032	0.032	0.030	0.002	0.000	1.570
1.00	0.000	0.325	0.000	0.050	0.200	0.110	0.112	0.121	0.121	0.126	0.110	0.121	0.112	0.120	0.169	0.169	3.130
1.50	0.017	0.223	0.002	0.000	0.223	0.077	0.042	0.109	0.330	0.309	0.240	0.285	0.390	0.000	0.081	0.081	5.052
2.00	0.000	0.240	0.220	0.340	0.100	0.050	0.007	0.070	0.210	0.002	0.501	0.553	0.070	0.100	0.530	0.530	5.709

4.24	0.429	0.444	0.437	0.440	0.436	0.455	0.437	0.407	0.476	1.001	1.544	1.817	1.415	1.014	1.234	0.921	9.736
5.24	0.452	0.415	0.435	0.417	0.417	0.404	0.410	0.400	0.437	0.553	1.715	2.134	2.470	1.654	0.491	0.489	8.519
10.24	0.440	0.434	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.435	0.231	0.415	0.270	0.412	0.407	0.400	1.229
12.24	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400
TOTAL	1.94	1.34	1.97	1.46	1.44	0.48	0.47	0.43	1.01	2.07	9.51	6.15	4.79	3.48	3.12	1.76	16.67

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS E

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.54	0.79	1.53	1.78	1.62	1.19	1.01	1.02	1.68	1.85	1.45	0.74	0.47	0.39	0.40	0.45	16.97

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS F

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.12	0.22	0.34	0.83	1.60	2.59	2.72	1.48	1.21	0.59	0.22	0.09	0.04	0.02	0.03	0.08	12.27

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS G

UMAX (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.02	0.12	0.22	0.44	1.00	3.44	4.44	2.44	0.77	0.15	0.04	0.02	0.02	0.02	0.02	0.03	12.93

TOTAL HOURS CONSIDERED ARE 40340

WIND MEASURED AT 10.7 METERS.

OVERALL WIND DIRECTION FREQUENCY

WIND DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
FREQUENCY	4.4	3.3	4.7	5.7	6.1	7.7	9.4	5.3	3.5	6.5	0.4	10.2	8.1	5.3	3.0	3.4	100.7

OVERALL WIND SPEED FREQUENCY

BEAVER VALLEY, PA 1977 THRU 1981 : JFU INFO CALM=,25M/S MIN=10.7M DELTA T=1-L

TUMBLING BUILDING VENTS CONTINUOUS GROUND LEVEL RELEASE

8.0M DAY DECAY, DEPLETED
CORRECTED USING SITE-SPECIFIC FACTORS

SECTION	ANNUAL AVERAGE CHT/0 (SEC/METER CORRED)				DISTANCE IN MILES FROM THE SITE							
	0.25M	0.5M	0.75M	1.0M	1.5M	2.0M	2.5M	3.0M	3.5M	4.0M	4.5M	
S	9.201E-06	2.964E-06	1.506E-06	4.370E-07	4.388E-07	2.566E-07	1.788E-07	1.331E-07	9.854E-08	7.590E-08	6.278E-08	
SSW	1.133E-05	3.714E-06	1.416E-06	1.208E-06	5.738E-07	3.390E-07	2.381E-07	1.784E-07	1.398E-07	1.132E-07	8.431E-08	
SW	1.767E-05	5.851E-06	3.030E-06	1.915E-06	1.109E-06	7.540E-07	4.836E-07	3.366E-07	2.640E-07	2.134E-07	1.609E-07	
WSW	3.395E-05	1.111E-05	5.849E-06	3.710E-06	1.976E-06	1.266E-06	8.966E-07	6.767E-07	5.141E-07	4.052E-07	3.248E-07	
W	7.884E-05	2.504E-05	1.319E-05	8.555E-06	4.648E-06	3.016E-06	1.773E-06	1.149E-06	9.117E-07	7.460E-07	6.249E-07	
WNW	1.704E-04	5.156E-05	2.699E-05	1.780E-05	9.620E-06	6.212E-06	4.375E-06	3.284E-06	2.623E-06	2.157E-06	1.624E-06	
WW	1.846E-04	5.625E-05	2.921E-05	1.939E-05	1.084E-05	7.165E-06	5.065E-06	3.814E-06	3.053E-06	2.517E-06	1.894E-06	
WNW	5.192E-05	1.583E-05	8.265E-06	5.435E-06	3.005E-06	1.973E-06	1.375E-06	1.023E-06	7.869E-07	6.268E-07	5.073E-07	
N	2.194E-05	7.040E-06	3.686E-06	2.374E-06	1.280E-06	8.268E-07	5.642E-07	4.131E-07	3.123E-07	2.451E-07	1.959E-07	
NNE	1.452E-05	4.810E-06	2.500E-06	1.578E-06	7.574E-07	4.509E-07	3.172E-07	2.581E-07	1.869E-07	1.515E-07	1.259E-07	
NE	1.040E-05	3.383E-06	1.722E-06	1.071E-06	6.042E-07	4.033E-07	2.808E-07	2.089E-07	1.499E-07	1.124E-07	8.869E-08	
ENE	1.257E-05	3.363E-06	1.686E-06	1.040E-06	5.762E-07	3.795E-07	2.717E-07	2.069E-07	1.603E-07	1.285E-07	9.477E-08	
E	9.989E-06	3.177E-06	1.592E-06	9.825E-07	4.585E-07	2.673E-07	1.850E-07	1.369E-07	1.014E-07	7.810E-08	6.431E-08	
ESE	6.426E-06	2.185E-06	1.097E-06	6.777E-07	3.461E-07	2.151E-07	1.488E-07	1.102E-07	8.155E-08	6.283E-08	4.919E-08	
SE	7.322E-06	2.360E-06	1.189E-06	7.558E-07	3.944E-07	2.536E-07	1.756E-07	1.308E-07	9.225E-08	6.852E-08	5.643E-08	
SSE	7.548E-06	2.414E-06	1.223E-06	7.623E-07	3.945E-07	2.476E-07	1.573E-07	1.089E-07	8.072E-08	6.228E-08	5.151E-08	

SECTION	ANNUAL AVERAGE CHT/0 (SEC/METER CORRED)				DISTANCE IN MILES FROM THE SITE							
	5.0M	7.5M	10.0M	15.0M	20.0M	25.0M	30.0M	35.0M	40.0M	45.0M	50.0M	
S	5.294E-08	2.757E-08	1.726E-08	8.864E-09	5.495E-09	3.771E-09	2.760E-09	2.111E-09	1.668E-09	1.352E-09	1.117E-09	
SSW	7.227E-08	3.815E-08	2.411E-08	1.254E-08	7.828E-09	5.399E-09	3.965E-09	3.042E-09	2.409E-09	1.955E-09	1.618E-09	
SW	1.307E-07	7.229E-08	4.572E-08	2.378E-08	1.483E-08	1.022E-08	7.498E-09	5.745E-09	4.543E-09	3.682E-09	3.042E-09	
WSW	2.665E-07	1.098E-07	7.010E-08	3.693E-08	2.324E-08	1.612E-08	1.189E-08	8.151E-09	6.265E-09	5.068E-09	4.093E-09	
W	5.332E-07	2.261E-07	1.335E-07	7.120E-08	4.513E-08	3.144E-08	2.325E-08	1.792E-08	1.424E-08	1.158E-08	9.509E-09	
WNW	1.254E-06	5.286E-07	2.663E-07	1.400E-07	4.210E-08	6.459E-08	4.802E-08	3.716E-08	2.963E-08	2.416E-08	2.008E-08	
NW	1.474E-06	6.233E-07	3.157E-07	1.721E-07	1.108E-07	7.812E-08	5.837E-08	4.539E-08	3.635E-08	2.976E-08	2.481E-08	
WNW	4.197E-07	1.864E-07	1.165E-07	6.335E-08	4.078E-08	2.878E-08	2.154E-08	1.679E-08	1.347E-08	1.106E-08	9.245E-09	
N	1.594E-07	8.636E-08	5.371E-08	2.985E-08	1.904E-08	1.336E-08	9.957E-09	7.736E-09	6.197E-09	5.082E-09	4.240E-09	
NNE	1.067E-07	4.720E-08	2.496E-08	1.574E-08	9.869E-09	6.849E-09	5.060E-09	3.904E-09	3.109E-09	2.536E-09	2.109E-09	
NE	7.178E-08	3.401E-08	2.131E-08	1.098E-08	6.830E-09	4.704E-09	3.456E-09	2.654E-09	2.106E-09	1.713E-09	1.422E-09	
ENE	7.214E-08	2.854E-08	1.774E-08	8.496E-09	5.547E-09	3.796E-09	2.775E-09	2.123E-09	1.679E-09	1.362E-09	1.128E-09	
E	5.405E-08	2.528E-08	1.564E-08	7.478E-09	4.918E-09	3.363E-09	2.456E-09	1.877E-09	1.483E-09	1.202E-09	9.437E-10	
ESE	3.953E-08	2.234E-08	1.262E-08	6.414E-09	3.950E-09	2.694E-09	1.974E-09	1.504E-09	1.188E-09	9.614E-10	7.448E-10	
SE	4.743E-08	2.219E-08	1.377E-08	6.992E-09	4.303E-09	2.937E-09	2.142E-09	1.634E-09	1.288E-09	1.042E-09	8.680E-10	
SSE	4.347E-08	2.274E-08	1.425E-08	7.343E-09	4.563E-09	3.138E-09	2.300E-09	1.762E-09	1.394E-09	1.131E-09	9.352E-10	

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 10.7
 DIAMETER (METERS) 8.0
 EXIT VELOCITY (METERS) 10.0

REF. WIND HEIGHT (METERS) 10.7
 BUILDING HEIGHT (METERS) 33.0
 FLOOR, MIN. CRS. SEC. AREA (SQ. METERS) 1600.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

ALL GROUND LEVEL RELEASES.

BEAVER VALLEY, PA 1977 THRU 1981 1 JFD INFL CALN=254/5 HT=10.70 DELTA T=1-L

TURBINE BUILDING VENT CONTINUOUS GROUND LEVEL RELEASE
 2.264 DAY DECAY, UNDEPLETED
 CORRECTED USING SITE-SPECIFIC FACTORS

SECTION	ANNUAL AVERAGE CH/74 (SEC/METER CUBED)											
	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	
S	9.707E-06	3.236E-06	1.642E-06	1.064E-06	5.117E-07	3.059E-07	2.171E-07	1.643E-07	1.234E-07	9.640E-08	8.062E-08	
SSW	1.195E-05	4.052E-06	2.138E-06	1.369E-06	6.688E-07	4.032E-07	2.883E-07	2.195E-07	1.744E-07	1.438E-07	1.141E-07	
SW	1.463E-05	6.379E-06	3.377E-06	2.168E-06	1.284E-06	8.948E-07	5.841E-07	4.128E-07	3.282E-07	2.691E-07	2.144E-07	
SSW	3.574E-05	1.211E-05	6.344E-06	4.208E-06	2.295E-06	1.501E-06	1.082E-06	8.289E-07	6.382E-07	5.090E-07	4.125E-07	
W	8.405E-05	2.726E-05	1.467E-05	9.659E-06	5.377E-06	3.558E-06	2.126E-06	1.397E-06	1.122E-06	9.278E-07	7.846E-07	
WSW	1.744E-04	5.611E-05	3.440E-05	2.008E-05	1.112E-05	7.319E-06	5.237E-06	3.985E-06	3.220E-06	2.676E-06	2.033E-06	
W	2.000E-04	6.126E-05	3.251E-05	2.191E-05	1.256E-05	8.464E-06	6.087E-06	4.658E-06	3.770E-06	3.142E-06	2.594E-06	
WSW	5.474E-05	1.726E-05	9.216E-06	6.157E-06	3.474E-06	2.344E-06	1.662E-06	1.256E-06	9.799E-07	7.403E-07	6.467E-07	
W	2.315E-05	7.685E-06	4.117E-06	2.696E-06	1.493E-06	9.863E-07	6.859E-07	5.106E-07	3.917E-07	3.116E-07	2.510E-07	
WSW	1.532E-05	5.255E-06	2.795E-06	1.794E-06	8.852E-07	5.392E-07	3.868E-07	2.954E-07	2.354E-07	1.935E-07	1.624E-07	
W	1.948E-05	3.698E-06	1.927E-06	1.219E-06	7.076E-07	4.835E-07	3.435E-07	2.601E-07	1.896E-07	1.442E-07	1.154E-07	
WSW	1.116E-05	3.677E-06	1.888E-06	1.184E-06	6.752E-07	4.554E-07	3.328E-07	2.580E-07	2.032E-07	1.653E-07	1.336E-07	
W	1.454E-05	3.472E-06	1.782E-06	1.118E-06	5.367E-07	3.203E-07	2.261E-07	1.703E-07	1.281E-07	1.001E-07	8.351E-08	
WSW	7.206E-06	2.388E-06	1.228E-06	7.712E-07	4.051E-07	2.577E-07	1.819E-07	1.370E-07	1.030E-07	8.053E-08	6.388E-08	
W	7.728E-06	2.574E-06	1.338E-06	8.568E-07	4.012E-07	3.035E-07	2.143E-07	1.615E-07	1.163E-07	8.762E-08	7.308E-08	
WSW	7.064E-06	2.636E-06	1.367E-06	8.656E-07	4.603E-07	2.954E-07	1.915E-07	1.346E-07	1.012E-07	7.414E-08	6.625E-08	

SECTION	ANNUAL AVERAGE CH/74 (SEC/METER CUBED)											
	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	
S	6.474E-06	3.724E-06	2.408E-06	1.297E-06	8.316E-07	5.861E-07	4.382E-07	3.414E-07	2.741E-07	2.252E-07	1.885E-07	
SSW	9.333E-06	5.115E-06	3.331E-06	1.808E-06	1.163E-06	8.202E-07	6.132E-07	4.773E-07	3.826E-07	3.137E-07	2.614E-07	
SW	1.257E-05	4.617E-06	6.253E-06	3.379E-06	2.163E-06	1.518E-06	1.129E-06	8.748E-07	6.980E-07	5.696E-07	4.733E-07	
SSW	3.417E-07	1.457E-07	4.556E-06	5.224E-06	3.369E-06	2.378E-06	1.776E-06	1.381E-06	1.104E-06	9.034E-07	7.520E-07	
W	6.753E-07	2.946E-07	1.777E-07	4.729E-06	6.255E-06	4.391E-06	3.261E-06	2.516E-06	1.997E-06	1.621E-06	1.337E-06	
WSW	1.540E-06	6.856E-07	3.524E-07	1.950E-07	1.262E-07	8.892E-08	6.616E-08	5.112E-08	4.060E-08	3.295E-08	2.720E-08	
W	1.876E-06	8.179E-07	4.242E-07	2.383E-07	1.561E-07	1.113E-07	8.364E-08	6.530E-08	5.235E-08	4.285E-08	3.566E-08	
WSW	5.406E-07	2.497E-07	1.003E-07	9.078E-08	6.008E-08	4.328E-08	3.240E-08	2.595E-08	2.103E-08	1.740E-08	1.463E-08	
W	2.064E-07	1.171E-07	7.019E-08	4.404E-08	2.914E-08	2.105E-08	1.607E-08	1.274E-08	1.039E-08	8.651E-09	7.324E-09	
WSW	1.398E-07	6.454E-08	4.244E-08	2.352E-08	1.540E-08	1.105E-08	8.395E-09	6.635E-09	5.398E-09	4.490E-09	3.800E-09	
W	9.453E-08	4.642E-08	3.058E-08	1.672E-08	1.089E-08	7.784E-09	5.404E-09	4.063E-09	3.794E-09	3.757E-09	2.675E-09	
WSW	4.533E-08	3.953E-08	2.553E-08	1.381E-08	9.435E-09	6.364E-09	4.814E-09	3.796E-09	3.086E-09	2.567E-09	2.175E-09	
W	7.104E-08	3.474E-08	2.203E-08	1.208E-08	7.784E-09	5.514E-09	4.156E-09	3.263E-09	2.641E-09	2.188E-09	1.846E-09	
WSW	5.196E-08	2.797E-08	1.804E-08	4.706E-09	6.243E-09	4.418E-09	3.322E-09	2.603E-09	2.103E-09	1.734E-09	1.464E-09	
W	6.216E-08	3.234E-08	1.456E-08	1.049E-08	6.727E-09	4.747E-09	3.558E-09	2.781E-09	2.240E-09	1.847E-09	1.552E-09	
WSW	5.653E-08	3.074E-08	1.443E-08	1.078E-08	6.430E-09	4.843E-09	3.665E-09	2.860E-09	2.294E-09	1.890E-09	1.583E-09	

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 10.70
 DIAMETER (METERS) 0.00
 EXIT VELOCITY (METERS) 0.00

REF. WIND HEIGHT (METERS) 10.7
 BUILDING HEIGHT (METERS) 33.0
 LOG, MIN, CRS, SEC, AREA (SQ. METERS) 1600.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

ALL GROUND LEVEL RELEASES.

BLAVER VALLEY, PA 1977 INNO 1981 1 JFM INNO CALM=.25M/S H1=10.7M DELTA T=1-L

TURBULENCE BUILDING WENT CONTINUOUS GROUND LEVEL RELEASE
2.264 DAY DECAY, UNDEPLETED

CH124 (SFL/METER CURRENT) FOR EACH SEGMENT

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.752E-06	5.024E-07	2.147E-07	1.204E-07	8.040E-08	3.839E-08	1.337E-08	5.923E-09	3.430E-09	2.261E-09
SSW	2.202E-06	7.062E-07	2.914E-07	1.753E-07	1.150E-07	5.259E-08	1.860E-08	8.288E-09	4.841E-09	3.149E-09
SW	3.507E-06	1.309E-06	5.404E-07	3.298E-07	2.164E-07	9.889E-08	3.477E-08	1.535E-08	8.802E-09	5.720E-09
WSW	6.716E-06	2.365E-06	1.042E-06	6.434E-07	4.148E-07	1.670E-07	5.362E-08	2.401E-08	1.388E-08	9.069E-09
W	1.500E-05	5.520E-06	2.216E-06	1.126E-06	7.865E-07	3.272E-07	9.972E-08	4.436E-08	2.531E-08	1.628E-08
WNW	3.139E-05	1.142E-05	5.291E-06	3.231E-06	2.059E-06	7.384E-07	1.994E-07	8.975E-08	5.141E-08	3.309E-08
NW	3.414E-05	1.242E-05	6.148E-06	3.782E-06	2.424E-06	8.782E-07	2.431E-07	1.122E-07	6.562E-08	4.300E-08
NNW	9.644E-06	3.574E-06	1.682E-06	9.866E-07	6.449E-07	2.746E-07	9.258E-08	4.361E-08	2.606E-08	1.745E-08
N	4.278E-06	1.535E-06	6.459E-07	3.951E-07	2.526E-07	1.198E-07	4.501E-08	2.122E-08	1.280E-08	8.675E-09
NNE	2.847E-06	9.333E-07	3.408E-07	2.366E-07	1.633E-07	7.143E-08	2.413E-08	1.115E-08	6.667E-09	4.503E-09
NE	2.406E-06	7.216E-07	3.475E-07	1.925E-07	1.162E-07	5.024E-08	1.721E-08	7.860E-09	4.687E-09	3.167E-09
ENE	1.473E-06	6.906E-07	3.356E-07	2.044E-07	1.255E-07	4.571E-08	1.425E-08	6.430E-09	3.816E-09	2.576E-09
E	1.862E-06	5.697E-07	2.284E-07	1.295E-07	8.381E-08	3.735E-08	1.247E-08	5.578E-09	3.282E-09	2.146E-09
ESE	1.283E-06	4.209E-07	1.842E-07	1.042E-07	6.440E-08	2.889E-08	1.002E-08	4.466E-09	2.618E-09	1.745E-09
SE	1.388E-06	4.746E-07	2.170E-07	1.183E-07	7.335E-08	3.264E-08	1.063E-08	4.799E-09	2.747E-09	1.854E-09
SSE	1.426E-06	4.771E-07	1.465E-07	1.024E-07	6.647E-08	3.167E-08	1.110E-08	4.945E-09	2.876E-09	1.897E-09

BEAVER VALLEY, PA 1977 THRU 1981 : JFU INFO CALM=,25M/S H=10.7M DELTA T=1-L

TUMBLING BUILDING VENT CONTINUOUS GROUND LEVEL RELEASE

8.0M DAY DECAY, DEPLETED
CORRECTED USING SITE-SPECIFIC FACTORS

SECTION	ANNUAL AVERAGE CHT/H (SEC/METER CORRED)				DISTANCE IN MILES FROM THE SITE							
	0.25M	0.50M	0.75M	1.00M	1.50M	2.00M	2.50M	3.00M	3.50M	4.00M	4.50M	
S	9.201E-06	2.964E-06	1.566E-06	4.370E-07	4.388E-07	2.566E-07	1.788E-07	1.331E-07	9.854E-08	7.596E-08	6.278E-08	
SSW	1.133E-05	3.714E-06	1.916E-06	1.208E-06	5.738E-07	3.390E-07	2.381E-07	1.784E-07	1.398E-07	1.132E-07	8.431E-08	
SW	1.767E-05	5.851E-06	3.030E-06	1.915E-06	1.109E-06	7.540E-07	4.836E-07	3.366E-07	2.640E-07	2.134E-07	1.689E-07	
WSW	3.395E-05	1.111E-05	5.849E-06	3.710E-06	1.976E-06	1.266E-06	8.966E-07	6.767E-07	5.141E-07	4.052E-07	3.248E-07	
W	7.684E-05	2.504E-05	1.319E-05	8.555E-06	4.648E-06	3.016E-06	1.773E-06	1.149E-06	9.117E-07	7.460E-07	6.249E-07	
WNW	1.704E-04	5.156E-05	2.699E-05	1.780E-05	9.620E-06	6.212E-06	4.375E-06	3.284E-06	2.623E-06	2.157E-06	1.624E-06	
W	1.840E-04	5.625E-05	2.921E-05	1.939E-05	1.084E-05	7.165E-06	5.065E-06	3.814E-06	3.053E-06	2.517E-06	1.894E-06	
WNW	5.192E-05	1.563E-05	8.265E-06	5.435E-06	3.005E-06	1.973E-06	1.375E-06	1.023E-06	7.849E-07	6.268E-07	5.073E-07	
N	2.194E-05	7.040E-06	3.686E-06	2.374E-06	1.280E-06	8.268E-07	5.642E-07	4.131E-07	3.123E-07	2.451E-07	1.954E-07	
NNE	1.452E-05	4.810E-06	2.500E-06	1.578E-06	7.574E-07	4.509E-07	3.172E-07	2.381E-07	1.869E-07	1.515E-07	1.259E-07	
NE	1.040E-05	3.383E-06	1.722E-06	1.071E-06	6.042E-07	4.033E-07	2.808E-07	2.089E-07	1.499E-07	1.124E-07	8.869E-08	
ENE	1.257E-05	3.363E-06	1.686E-06	1.040E-06	5.762E-07	3.795E-07	2.717E-07	2.069E-07	1.603E-07	1.285E-07	9.477E-08	
E	9.989E-06	3.177E-06	1.592E-06	9.825E-07	4.585E-07	2.673E-07	1.850E-07	1.369E-07	1.014E-07	7.810E-08	6.431E-08	
ESE	6.426E-06	2.185E-06	1.097E-06	6.717E-07	3.461E-07	2.151E-07	1.488E-07	1.102E-07	8.155E-08	6.283E-08	4.919E-08	
SE	7.322E-06	2.364E-06	1.169E-06	7.558E-07	3.944E-07	2.536E-07	1.756E-07	1.300E-07	9.225E-08	6.852E-08	5.643E-08	
SSE	7.548E-06	2.414E-06	1.223E-06	7.623E-07	3.945E-07	2.476E-07	1.575E-07	1.089E-07	8.072E-08	6.228E-08	5.151E-08	

SECTION	ANNUAL AVERAGE CHT/H (SEC/METER CORRED)				DISTANCE IN MILES FROM THE SITE							
	5.0M	7.5M	10.0M	15.0M	20.0M	25.0M	30.0M	35.0M	40.0M	45.0M	50.0M	
S	5.244E-06	2.757E-06	1.726E-06	8.864E-07	5.495E-07	3.771E-07	2.760E-07	2.111E-07	1.668E-07	1.352E-07	1.117E-07	
SSW	7.227E-06	3.815E-06	2.411E-06	1.254E-06	7.828E-07	5.399E-07	3.965E-07	3.042E-07	2.409E-07	1.955E-07	1.618E-07	
SW	1.367E-05	7.224E-06	4.572E-06	2.378E-06	1.483E-06	1.022E-06	7.498E-07	5.745E-07	4.543E-07	3.682E-07	3.042E-07	
WSW	2.665E-07	1.098E-07	7.010E-08	3.693E-08	2.324E-08	1.612E-08	1.189E-08	9.151E-08	7.265E-08	5.906E-08	4.893E-08	
W	5.332E-07	2.261E-07	1.335E-07	7.120E-07	4.513E-08	3.144E-08	2.325E-08	1.792E-08	1.424E-08	1.158E-08	9.589E-09	
WNW	1.254E-06	5.286E-07	2.663E-07	1.440E-07	4.210E-08	6.459E-08	4.802E-08	3.716E-08	2.963E-08	2.416E-08	2.004E-08	
NW	1.474E-06	6.233E-07	3.157E-07	1.721E-07	1.108E-07	7.812E-08	5.837E-08	4.539E-08	3.635E-08	2.976E-08	2.481E-08	
WNW	4.197E-07	1.844E-07	1.165E-07	6.335E-08	4.078E-08	2.878E-08	2.154E-08	1.679E-08	1.347E-08	1.106E-08	9.245E-09	
N	1.594E-07	6.636E-08	3.571E-08	2.945E-08	1.904E-08	1.336E-08	9.957E-09	7.736E-09	6.197E-09	5.082E-09	4.244E-09	
NNE	1.067E-07	4.724E-08	2.496E-08	1.574E-08	9.469E-09	6.849E-09	5.060E-09	3.904E-09	3.109E-09	2.536E-09	2.109E-09	
NE	7.174E-08	3.401E-08	2.131E-08	1.098E-08	6.830E-09	4.704E-09	3.456E-09	2.654E-09	2.106E-09	1.713E-09	1.422E-09	
ENE	7.219E-08	2.854E-08	1.774E-08	8.496E-09	5.547E-09	3.796E-09	2.775E-09	2.123E-09	1.679E-09	1.362E-09	1.124E-09	
E	5.005E-08	2.528E-08	1.364E-08	7.474E-09	4.918E-09	3.363E-09	2.456E-09	1.877E-09	1.483E-09	1.202E-09	9.437E-10	
ESE	3.953E-08	2.234E-08	1.262E-08	6.414E-09	3.950E-09	2.694E-09	1.974E-09	1.504E-09	1.188E-09	9.614E-10	7.448E-10	
SE	4.743E-08	2.219E-08	1.377E-08	6.492E-09	4.303E-09	2.937E-09	2.142E-09	1.634E-09	1.288E-09	1.042E-09	8.608E-10	
SSE	4.347E-08	2.274E-08	1.425E-08	7.543E-09	4.563E-09	3.138E-09	2.306E-09	1.762E-09	1.394E-09	1.131E-09	9.352E-10	

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 10.7
DIAMETER (METERS) 0.49
EXIT VELOCITY (METERS) 0.00

REF. WIND HEIGHT (METERS) 10.7
BUILDING HEIGHT (METERS) 53.0
LOG MIN. CR3. SEC. AREA (SQ. METERS) 1600.0
HEAT EMISSION RATE (CAL/SEC) 0.0

ALL GROUND LEVEL RELEASES.

HEAVEN VALLEY, PA 1977 TOWN 1981 1 JFO INFO CALIB. 250/5 HT=14.71 DELTA T=1-L

TUNING BUILDING VENTS CONTINUOUS GROUND LEVEL RELEASE
NO DAY DECAY, DEPLETED

CH1/2 (SEC/METER CURRENT) FOR EACH SEGMENT

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.57E-06	4.005E-07	1.012E-07	4.980E-08	6.304E-08	2.862E-08	9.252E-09	3.826E-09	2.128E-09	1.359E-09
SSW	2.401E-06	6.104E-07	2.411E-07	1.407E-07	9.006E-08	3.949E-08	1.302E-08	5.473E-09	3.065E-09	1.765E-09
SW	3.101E-06	1.130E-06	4.469E-07	2.657E-07	1.703E-07	7.480E-08	2.468E-08	1.036E-08	5.788E-09	3.700E-09
WSW	6.059E-06	2.046E-06	9.071E-07	5.190E-07	3.270E-07	1.270E-07	3.822E-08	1.633E-08	9.215E-09	5.933E-09
W	1.376E-05	4.791E-06	1.855E-06	9.164E-07	6.268E-07	2.532E-07	7.346E-08	3.181E-08	1.804E-08	1.163E-08
WSW	2.836E-05	9.423E-06	4.429E-06	2.634E-06	1.647E-06	5.744E-07	1.401E-07	6.530E-08	3.739E-08	2.426E-08
WSW	3.085E-05	1.111E-05	5.125E-06	3.066E-06	1.924E-06	6.757E-07	1.767E-07	7.843E-08	4.565E-08	2.988E-08
WSW	8.608E-06	3.086E-06	1.344E-06	7.934E-07	5.103E-07	2.074E-07	6.514E-08	2.908E-08	1.608E-08	1.110E-08
N	3.548E-06	1.322E-06	5.738E-07	3.155E-07	1.965E-07	8.808E-08	3.079E-08	1.351E-08	7.708E-09	5.102E-09
NNE	2.604E-06	8.035E-07	3.212E-07	1.880E-07	1.264E-07	5.276E-08	1.628E-08	6.939E-09	3.931E-09	2.548E-09
NE	1.801E-06	6.186E-07	2.847E-07	1.525E-07	8.945E-08	3.676E-08	1.143E-08	4.772E-09	2.675E-09	1.722E-09
ESE	1.771E-06	5.917E-07	2.745E-07	1.615E-07	9.640E-08	3.342E-08	9.398E-09	3.854E-09	2.140E-09	1.369E-09
E	1.073E-06	4.900E-07	1.677E-07	1.027E-07	6.459E-08	2.741E-08	8.332E-09	3.415E-09	1.893E-09	1.208E-09
ESE	1.153E-06	3.610E-07	1.510E-07	8.260E-08	4.965E-08	2.117E-08	6.699E-09	2.741E-09	1.517E-09	9.670E-10
SE	1.244E-06	4.077E-07	1.702E-07	9.401E-08	5.668E-08	2.406E-08	7.303E-09	2.983E-09	1.647E-09	1.048E-09
SSE	1.203E-06	4.114E-07	1.621E-07	8.175E-08	5.172E-08	2.356E-08	7.641E-09	3.183E-09	1.776E-09	1.136E-09

BEAVER VALLEY, PA 1977 INRU 1981 : 1FD INRU CALM=.25M/S HT=10.7M DELTA T=1-L

TUMHINE BUILDING VENT CONTINUOUS GROUND LEVEL RELEASE
CONNECTED USING SITE-SPECIFIC FACTORS

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) AT FIXED POINTS BY DOWNWIND SECTIONS *****											
DIRECTION											
DISTANCES IN MILES											
FROM SITE	0.25	1.0,50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.322E-08	1.123E-08	5.768E-09	3.541E-09	1.601E-09	9.061E-10	6.126E-10	4.039E-10	3.207E-10	2.418E-10	1.457E-10
SSW	2.482E-08	8.392E-09	4.389E-09	2.646E-09	1.196E-09	6.769E-10	4.577E-10	3.316E-10	2.522E-10	1.487E-10	1.529E-10
SW	3.013E-08	1.014E-08	5.232E-09	3.213E-09	1.766E-09	1.148E-09	7.479E-10	4.754E-10	3.619E-10	2.851E-10	2.195E-10
WSW	2.932E-08	1.604E-08	8.363E-09	5.258E-09	2.621E-09	1.594E-09	1.075E-09	7.789E-10	5.708E-10	4.355E-10	3.377E-10
W	7.024E-08	2.376E-08	1.224E-08	7.492E-09	3.735E-09	2.265E-09	1.258E-09	7.769E-10	5.468E-10	4.654E-10	3.764E-10
WNW	1.027E-07	3.473E-08	1.783E-08	1.095E-08	5.318E-09	3.166E-09	2.087E-09	1.481E-09	1.126E-09	8.649E-10	6.422E-10
NW	1.202E-07	4.063E-08	2.086E-08	1.241E-08	6.387E-09	3.873E-09	2.553E-09	1.811E-09	1.377E-09	1.085E-09	7.856E-10
NNW	4.047E-08	1.673E-08	8.544E-09	5.275E-09	2.630E-09	1.595E-09	1.041E-09	7.325E-10	5.368E-10	4.095E-10	3.184E-10
N	4.142E-08	1.401E-08	7.191E-09	4.416E-09	2.201E-09	1.335E-09	8.638E-10	6.038E-10	4.342E-10	3.316E-10	2.552E-10
NNE	5.257E-08	1.778E-08	9.127E-09	5.604E-09	2.553E-09	1.453E-09	9.821E-10	7.117E-10	5.411E-10	4.243E-10	3.451E-10
NE	6.215E-08	2.102E-08	1.079E-08	6.626E-09	3.615E-09	2.337E-09	1.500E-09	1.145E-09	8.016E-10	5.874E-10	4.546E-10
ENE	7.707E-08	2.606E-08	1.338E-08	8.217E-09	4.454E-09	2.867E-09	2.008E-09	1.498E-09	1.134E-09	8.473E-10	6.514E-10
E	6.574E-08	2.223E-08	1.141E-08	7.008E-09	3.143E-09	1.816E-09	1.228E-09	8.698E-10	6.458E-10	4.887E-10	3.456E-10
ESE	3.654E-08	1.235E-08	6.344E-09	3.895E-09	1.942E-09	1.178E-09	7.963E-10	5.770E-10	4.188E-10	3.168E-10	2.439E-10
SE	3.466E-08	1.172E-08	6.018E-09	3.696E-09	1.931E-09	1.211E-09	8.184E-10	5.930E-10	4.123E-10	3.006E-10	2.434E-10
SSE	2.864E-08	9.670E-09	4.965E-09	3.049E-09	1.520E-09	9.218E-10	5.665E-10	3.821E-10	2.761E-10	2.081E-10	1.685E-10

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) AT FIXED POINTS BY DOWNWIND SECTIONS *****											
DIRECTION											
DISTANCES IN MILES											
FROM SITE	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.614E-10	7.934E-11	4.978E-11	2.516E-11	1.523E-11	1.021E-11	7.317E-12	5.494E-12	4.272E-12	3.412E-12	2.785E-12
SSW	1.210E-10	5.927E-11	3.714E-11	1.840E-11	1.138E-11	7.628E-12	5.466E-12	4.104E-12	3.191E-12	2.549E-12	2.081E-12
SW	1.736E-10	8.505E-11	5.337E-11	2.697E-11	1.633E-11	1.095E-11	7.843E-12	5.890E-12	4.579E-12	3.658E-12	2.986E-12
WSW	2.707E-10	1.021E-10	6.405E-11	3.238E-11	1.960E-11	1.314E-11	9.414E-12	7.069E-12	5.496E-12	4.391E-12	3.587E-12
W	3.117E-10	1.191E-10	6.846E-11	3.460E-11	2.094E-11	1.404E-11	1.006E-11	7.555E-12	5.874E-12	4.642E-12	3.830E-12
WNW	4.008E-10	1.792E-10	8.648E-11	4.396E-11	2.661E-11	1.784E-11	1.278E-11	9.599E-12	7.464E-12	5.462E-12	4.066E-12
NW	5.842E-10	2.192E-10	1.464E-10	5.378E-11	3.255E-11	2.182E-11	1.564E-11	1.174E-11	9.130E-12	7.243E-12	5.953E-12
NNW	2.547E-10	1.005E-10	6.024E-11	3.045E-11	1.843E-11	1.236E-11	8.854E-12	6.648E-12	5.169E-12	4.129E-12	3.370E-12
N	2.019E-10	9.892E-11	6.207E-11	3.137E-11	1.894E-11	1.273E-11	9.123E-12	6.850E-12	5.326E-12	4.255E-12	3.473E-12
NNE	2.455E-10	1.166E-10	7.315E-11	3.697E-11	2.238E-11	1.500E-11	1.075E-11	8.073E-12	6.277E-12	5.014E-12	4.093E-12
NE	3.604E-10	1.608E-10	1.009E-10	5.104E-11	3.087E-11	2.064E-11	1.483E-11	1.113E-11	8.657E-12	6.916E-12	5.645E-12
ENE	4.802E-10	1.841E-10	1.155E-10	5.834E-11	3.533E-11	2.369E-11	1.698E-11	1.275E-11	9.911E-12	7.917E-12	6.462E-12
E	3.272E-10	1.458E-10	9.147E-11	4.624E-11	2.798E-11	1.876E-11	1.344E-11	1.014E-11	7.849E-12	6.276E-12	5.118E-12
ESE	1.924E-10	9.453E-11	5.931E-11	2.998E-11	1.815E-11	1.217E-11	8.718E-12	6.546E-12	5.090E-12	4.066E-12	3.319E-12
SE	2.013E-10	8.969E-11	5.627E-11	2.844E-11	1.720E-11	1.154E-11	8.271E-12	6.210E-12	4.824E-12	3.857E-12	3.148E-12
SSE	1.494E-10	6.834E-11	4.285E-11	2.166E-11	1.311E-11	8.790E-12	6.299E-12	4.730E-12	3.677E-12	2.937E-12	2.398E-12

DEAVER VALLEY, PA 1977 THRU 1981 1 JFH INFL CALM, 25M/S HTR=10.7M DELTA T=1-L

THERMAL BUILDING, VENT CONTINUOUS GROUND LEVEL RELEASE

***** RELATIVE DEPOSITION PER UNIT AREA (GRAMS) BY DOWNWIND SECTIONS *****										
SEGMENT BOUNDARIES IN MILES										
DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.443E-09	1.723E-09	6.234E-10	3.250E-10	1.960E-10	8.455E-11	2.622E-11	1.039E-11	5.549E-12	3.435E-12
SSW	4.477E-09	1.288E-09	4.637E-10	2.545E-10	1.506E-10	6.316E-11	1.459E-11	7.763E-12	4.146E-12	2.564E-12
SW	5.435E-09	1.813E-09	7.324E-10	3.652E-10	2.214E-10	9.064E-11	2.811E-11	1.114E-11	5.449E-12	3.682E-12
WSW	8.097E-09	2.749E-09	1.044E-09	5.787E-10	3.423E-10	1.227E-10	3.537E-11	1.337E-11	7.140E-12	4.417E-12
W	1.260E-08	3.417E-09	1.334E-09	5.962E-10	3.784E-10	1.344E-10	3.605E-11	1.429E-11	7.631E-12	4.723E-12
WNW	2.853E-08	5.613E-09	2.132E-09	1.136E-09	6.549E-10	2.052E-10	4.581E-11	1.816E-11	4.696E-12	6.001E-12
NW	2.160E-08	6.697E-09	2.608E-09	1.394E-09	8.012E-10	2.511E-10	5.604E-11	2.221E-11	1.186E-11	7.341E-12
NWN	8.425E-09	2.757E-09	1.065E-09	5.442E-10	3.219E-10	1.169E-10	3.173E-11	1.257E-11	6.715E-12	4.156E-12
N	7.472E-09	2.309E-09	8.855E-10	4.449E-10	2.581E-10	1.054E-10	3.269E-11	1.296E-11	6.914E-12	4.282E-12
NNE	9.444E-09	2.742E-09	9.944E-10	5.461E-10	3.471E-10	1.348E-10	3.853E-11	1.527E-11	8.154E-12	5.047E-12
NE	1.121E-08	3.716E-09	1.608E-09	8.183E-10	4.594E-10	1.786E-10	5.314E-11	2.106E-11	1.125E-11	6.961E-12
ENE	1.390E-08	4.585E-09	2.033E-09	1.150E-09	6.637E-10	2.212E-10	6.483E-11	2.411E-11	1.287E-11	7.969E-12
E	1.186E-08	3.429E-09	1.250E-09	6.557E-10	3.978E-10	1.620E-10	4.818E-11	1.909E-11	1.020E-11	6.311E-12
ESE	6.591E-09	2.036E-09	8.103E-10	4.251E-10	2.466E-10	1.007E-10	3.124E-11	1.238E-11	6.612E-12	4.092E-12
SE	6.253E-09	2.003E-09	8.328E-10	4.214E-10	2.447E-10	9.964E-11	2.964E-11	1.175E-11	6.273E-12	3.883E-12
SSE	5.159E-09	1.544E-09	5.882E-10	2.805E-10	1.694E-10	7.278E-11	2.257E-11	8.945E-12	4.777E-12	2.757E-12

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 10.7
 DIAMETER (METERS) 0.00
 EXIT VELOCITY (METERS) 0.00

REF. WIND HEIGHT (METERS) 10.7
 BUILDING HEIGHT (METERS) 33.0
 BLDG. MIN. CHS. SEC. AREA (SQ. METERS) 1600.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

ALL GROUND LEVEL RELEASES.

HEAVEN VALLEY, PA 1977 THRU 1981 : JFD INFO CALM= .25M/S MIX=1X, 7M DELTA T=1-L

TURBINE BUILDING VENTS CONTINUOUS GROUND LEVEL RELEASE
 CORRECTED USING SITE-SPECIFIC FACTORS
 SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DISTANCE		X/Q		X/Q		D/H
			(MILES)	(METERS)	(SEC/CUB.METER) NO DECAY UNDEPLETED	(SEC/CUB.METER) UNDEPLETED	(SEC/CUB.METER) 2.26X DAY DECAY UNDEPLETED	(SEC/CUB.METER) 8.40X DAY DECAY DEPLETED	
A	NRST PLNT BNDRY	S	0.49	790.	3.3E-06	3.3E-06	3.1E-06	1.2E-06	
A	NRST PLNT BNDRY	SSW	0.62	1000.	2.9E-06	2.9E-06	2.6E-06	5.9E-07	
A	NRST PLNT BNDRY	SW	0.61	1300.	3.0E-06	3.0E-06	2.7E-06	4.6E-07	
A	NRST PLNT BNDRY	WSW	0.29	460.	2.9E-05	2.9E-05	2.7E-05	4.0E-06	
A	NRST PLNT BNDRY	W	0.34	540.	5.1E-05	5.1E-05	4.8E-05	4.5E-06	
A	NRST PLNT BNDRY	WNW	0.37	600.	9.0E-05	9.0E-05	8.4E-05	5.5E-06	
A	NRST PLNT BNDRY	NW	0.29	470.	1.5E-04	1.5E-04	1.4E-04	9.5E-06	
A	NRST PLNT BNDRY	NNW	0.29	460.	4.4E-05	4.3E-05	4.1E-05	4.0E-06	
A	NRST PLNT BNDRY	N	0.30	480.	1.7E-05	1.7E-05	1.6E-05	3.2E-06	
A	NRST PLNT BNDRY	ENE	0.43	690.	6.7E-06	6.6E-06	6.1E-06	2.5E-06	
A	NRST PLNT BNDRY	NE	0.21	340.	1.4E-05	1.4E-05	1.4E-05	8.0E-06	
A	NRST PLNT BNDRY	E	0.21	340.	1.4E-05	1.4E-05	1.4E-05	9.9E-06	
A	NRST PLNT BNDRY	ESE	0.28	450.	8.9E-06	8.8E-06	8.3E-06	5.5E-06	
A	NRST PLNT BNDRY	SE	0.37	600.	4.1E-06	4.1E-06	3.8E-06	1.9E-06	
A	NRST PLNT BNDRY	SSE	0.41	660.	3.6E-06	3.6E-06	3.4E-06	1.3E-06	
A	NRST RESIDENT	S	1.30	2100.	6.7E-07	6.6E-07	5.7E-07	2.1E-07	
A	NRST RESIDENT	SSW	0.60	1100.	2.5E-06	2.5E-06	2.2E-06	5.0E-07	
A	NRST RESIDENT	SW	1.30	2100.	1.6E-06	1.5E-06	1.3E-06	2.2E-07	
A	NRST RESIDENT	WSW	1.37	2200.	2.7E-06	2.6E-06	2.3E-06	3.1E-07	
A	NRST RESIDENT	W	2.17	3500.	3.0E-06	2.9E-06	2.5E-06	.8E-07	
A	NRST RESIDENT	WNW	2.17	3500.	6.7E-06	6.5E-06	5.4E-06	2.7E-07	
A	NRST RESIDENT	NW	0.81	1300.	3.0E-05	2.9E-05	2.6E-05	1.6E-06	
A	NRST RESIDENT	NNW	0.62	1000.	1.2E-05	1.2E-05	1.1E-05	1.2E-06	
A	NRST RESIDENT	N	1.49	2400.	1.5E-06	1.5E-06	1.3E-06	2.2E-07	
A	NRST RESIDENT	NNE	1.55	2500.	8.4E-07	8.3E-07	7.1E-07	2.4E-07	
A	NRST RESIDENT	NE	0.30	610.	5.7E-06	5.7E-06	5.3E-06	3.3E-06	
A	NRST RESIDENT	ENE	0.38	610.	5.8E-06	5.8E-06	5.3E-06	4.1E-06	
A	NRST RESIDENT	E	0.41	660.	4.8E-06	4.8E-06	4.4E-06	3.1E-06	
A	NRST RESIDENT	ESE	0.93	1500.	8.7E-07	8.6E-07	7.6E-07	4.4E-07	
A	NRST RESIDENT	SE	1.06	1700.	7.8E-07	7.7E-07	6.8E-07	3.4E-07	
A	NRST RESIDENT	SSE	0.81	1300.	1.2E-06	1.2E-06	1.1E-06	4.4E-07	
A	NRST VEG GRDN	S	1.86	3000.	3.5E-07	3.5E-07	2.9E-07	1.0E-07	
A	NRST VEG GRDN	SSW	1.37	2200.	8.0E-07	7.9E-07	6.8E-07	1.4E-07	
A	NRST VEG GRDN	SW	1.30	2100.	1.6E-06	1.5E-06	1.3E-06	2.2E-07	
A	NRST VEG GRDN	WSW	1.37	2200.	2.7E-06	2.6E-06	2.3E-06	3.1E-07	
A	NRST VEG GRDN	W	2.17	3500.	3.0E-06	2.9E-06	2.5E-06	1.8E-07	
A	NRST VEG GRDN	WNW	2.17	3500.	6.7E-06	6.5E-06	5.4E-06	2.7E-07	
A	NRST VEG GRDN	NW	0.87	1400.	2.7E-05	2.7E-05	2.4E-05	1.6E-06	
A	NRST VEG GRDN	NNW	0.87	1400.	7.6E-06	7.5E-06	6.7E-06	6.7E-07	
A	NRST VEG GRDN	N	1.55	2500.	1.4E-06	1.4E-06	1.2E-06	2.1E-07	
A	NRST VEG GRDN	NNE	1.62	2600.	7.9E-07	7.8E-07	6.8E-07	2.2E-07	
A	NRST VEG GRDN	NE	0.39	620.	5.6E-06	5.6E-06	5.2E-06	3.2E-06	
A	NRST VEG GRDN	ENE	0.49	1600.	1.2E-06	1.2E-06	1.0E-06	6.3E-07	
A	NRST VEG GRDN	E	1.10	1900.	8.3E-07	8.3E-07	7.2E-07	3.1E-07	
A	NRST VEG GRDN	ESE	0.99	1600.	7.8E-07	7.8E-07	6.8E-07	3.9E-07	
A	NRST VEG GRDN	SE	1.06	1700.	7.8E-07	7.7E-07	6.8E-07	3.4E-07	
A	NRST VEG GRDN	SSE	0.99	1600.	8.8E-07	8.7E-07	7.7E-07	3.1E-07	
A	NRST MEAT ANML	S	1.37	2200.	6.1E-07	6.0E-07	5.2E-07	1.9E-07	
A	NRST MEAT ANML	SSW	1.37	2200.	8.0E-07	7.9E-07	6.8E-07	1.4E-07	

A	NRST HEAT ANML	SW	1.43	2300.	1.4E-06	1.4E-06	1.2E-06	1.4E-09
A	NRST HEAT ANML	WSW	1.43	2300.	2.5E-06	2.5E-06	2.1E-06	2.8E-09
A	NRST HEAT ANML	W	2.44	4000.	2.2E-06	2.2E-06	1.8E-06	1.3E-09
A	NRST HEAT ANML	WNW	2.17	3500.	6.7E-06	5.6E-06	5.4E-06	2.7E-09
A	NRST HEAT ANML	WN	2.86	4500.	5.4E-06	5.2E-06	4.3E-06	2.1E-09
A	NRST HEAT ANML	WNW	2.42	3900.	1.8E-06	1.7E-06	1.4E-06	1.1E-09
A	NRST HEAT ANML	N	2.55	4100.	6.8E-07	6.7E-07	5.5E-07	6.3E-10
A	NRST HEAT ANML	NNE	1.60	2700.	7.4E-07	7.3E-07	6.2E-07	2.1E-09
A	NRST HEAT ANML	NE	4.72	7600.	1.1E-07	1.1E-07	8.0E-08	4.1E-10
A	NRST HEAT ANML	E	2.61	4200.	2.1E-07	2.1E-07	1.7E-07	1.1E-09
A	NRST HEAT ANML	ESE	0.93	1500.	8.7E-07	8.6E-07	7.6E-07	4.4E-09
A	NRST HEAT ANML	SE	1.94	3200.	3.1E-07	3.1E-07	2.6E-07	1.2E-09
A	NRST HEAT ANML	SSE	1.06	1700.	8.0E-07	7.9E-07	7.0E-07	2.8E-09
A	NRST DAIRY COW	S	1.94	3200.	3.1E-07	3.1E-07	2.6E-07	4.2E-10
A	NRST DAIRY COW	SSW	1.94	3200.	4.2E-07	4.1E-07	3.4E-07	6.8E-10
A	NRST DAIRY COW	WSW	3.17	5100.	7.4E-07	7.6E-07	6.1E-07	7.0E-10
A	NRST DAIRY COW	W	3.11	5000.	1.4E-06	1.3E-06	1.1E-06	1.3E-10
A	NRST DAIRY COW	WNW	2.73	4400.	4.8E-06	4.6E-06	3.8E-06	1.8E-09
A	NRST DAIRY COW	NE	4.72	7600.	1.1E-07	1.1E-07	8.0E-08	4.1E-10
A	NRST DAIRY COW	E	2.35	7000.	9.0E-08	8.8E-08	6.8E-08	4.2E-10
A	NRST DAIRY COW	SE	3.46	5600.	1.2E-07	1.2E-07	9.3E-08	4.2E-10
A	NRST DAIRY COW	SSE	3.11	5000.	1.3E-07	1.3E-07	1.0E-07	3.6E-10
A	NRST DAIRY GOAT	SSW	3.42	5500.	1.4E-07	1.8E-07	1.5E-07	2.6E-10
A	NRST DAIRY GOAT	SW	1.86	3000.	1.0E-06	9.8E-07	8.3E-07	1.3E-09
A	NRST DAIRY GOAT	WNW	14.24	23000.	2.6E-07	2.1E-07	1.6E-07	4.8E-11
A	NRST DAIRY GOAT	W	6.84	11000.	1.1E-06	1.0E-06	7.9E-07	2.8E-10
A	NRST DAIRY GOAT	NNW	9.32	15000.	2.0E-07	1.8E-07	1.3E-07	6.8E-11
A	NRST DAIRY GOAT	N	2.86	4600.	5.7E-07	5.5E-07	4.5E-07	6.6E-10
A	NRST DAIRY GOAT	NNE	3.85	6200.	2.1E-07	2.0E-07	1.6E-07	4.6E-10
A	NRST DAIRY GOAT	NE	1.30	2100.	8.6E-07	8.5E-07	7.4E-07	4.5E-09
A	NRST DAIRY GOAT	ENE	4.16	6700.	1.5E-07	1.5E-07	1.2E-07	6.0E-10
A	NRST DAIRY GOAT	E	2.61	4200.	2.1E-07	2.1E-07	1.7E-07	1.1E-09
A	NRST DAIRY GOAT	ESE	1.74	2800.	3.2E-07	3.2E-07	2.7E-07	1.5E-09
A	NRST DAIRY GOAT	SE	3.46	5600.	1.2E-07	1.2E-07	4.3E-08	4.2E-10
A	NRST DAIRY GOAT	SSE	6.21	10000.	4.3E-08	4.1E-08	3.1E-08	4.4E-11

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS)	10.70
DIAMETER (METERS)	0.00
EXIT VELOCITY (METERS)	0.00

REF. WIND HEIGHT (METERS)	10.7
BUILDING HEIGHT (METERS)	33.0
BLDG. MIN. CRS. SEC. AREA (SQ. METERS)	1600.0
HEAT EMISSION RATE (CAL/SEC)	0.0

ALL GROUND LEVEL RELEASES.

VAY/VIS
VAY/VIS
VAY/VIS

[illegible]

• • • •

2. Continuous Elevated Release From Cooling Tower

[illegible]

H H H R	V	V	R R R R	V	V	L	Y	Y
R H H	V	V	R H	V	V	L	Y	
H H H	V	V	H H	V	V	L	Y	Y
H H H R	V	V	R R R R	V	V	L		Y
R H H	V	V	R R	V	V	L	Y	
R H H	V	V	R H	V	V	L	Y	
R H H	V	V	R R	V	V	L L L L L	Y	

VAY/VMS
VAY/VMS
VAY/VMS

13	1	30.00	10	2000.0	11	7500.0	12	0200.0	13	1000.0	14	5000.0	15	2000.0
14	1	3500.0	2	5000.0	3	5000.0	4	5000.0	5	0500.0	6	7500.0	7	1000.0
15	1	5000.0	2	5000.0	3	5000.0	4	5000.0	5	0500.0	6	7500.0	7	1000.0
16	1	5000.0	2	5000.0	3	5000.0	4	5000.0	5	0500.0	6	7500.0	7	1000.0
17	1	5000.0	2	5000.0	3	5000.0	4	5000.0	5	0500.0	6	7500.0	7	1000.0

COOLING TOWER (PROCESS VENT) CONTINUOUS ELEVATED RELEASE

10.200 0.250-152.0 0.0 152.0 0.00

REBECCA VALLEY, PA 15777 TEL: 717 331-1524M DELTA TAU-L

JOINT FREQUENCY DISTORTION IN WDM SPECTRUM DIRECTED

ATMOSPHERIC STABILITY CLASS A

[illegible]

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS H

UNITS (M/S)	N	NVE	NE	LINE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.00	0.020	0.010	0.010	0.020	0.015	0.015	0.013	0.013	0.015	0.005	0.003	0.005	0.003	0.000	0.003	0.005	0.003
5.00	0.100	0.025	0.043	0.100	0.023	0.015	0.013	0.013	0.015	0.020	0.010	0.025	0.010	0.010	0.000	0.010	0.020
10.00	0.250	0.113	0.115	0.250	0.113	0.055	0.020	0.020	0.018	0.070	0.063	0.060	0.065	0.030	0.015	0.060	0.015
20.00	0.500	0.200	0.200	0.500	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.00	0.10	0.06	0.06	0.09	0.09	0.00	0.06	0.06	0.07	0.11	0.16	0.14	0.12	0.10	0.06	0.09	1.50

INIT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS C

[illegible]

TOTAL FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS D

[illegible]

3.74	0.365	2.282	0.370	0.437	0.432	0.464	0.504	0.272	0.342	0.307	0.558	0.531	0.347	0.307	0.397	0.415	6.074
5.00	1.380	4.420	0.458	0.714	0.843	0.593	0.400	0.479	0.777	1.150	1.928	1.838	1.702	1.428	1.805	1.549	17.537
10.00	0.348	0.214	0.256	0.337	0.312	0.494	0.578	0.355	0.644	1.770	0.347	3.440	5.421	3.090	1.627	0.737	24.720
12.00	0.000	0.000	0.019	0.003	0.000	0.013	0.033	0.000	0.011	0.070	0.226	0.523	0.762	0.327	0.028	0.000	2.027
TOTAL	2.03	1.19	1.50	1.71	2.10	1.75	1.57	1.53	1.99	3.55	7.39	7.25	8.59	5.35	4.12	2.98	55.27

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS E

UWx (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.002	0.001	0.000	0.000	0.001	0.003	0.004	0.002	0.005	0.004	0.000	0.002	0.004	0.002	0.005	0.001	0.005
0.50	0.000	0.003	0.000	0.013	0.005	0.010	0.013	0.008	0.018	0.013	0.000	0.008	0.013	0.008	0.010	0.005	0.161
0.75	0.020	0.030	0.020	0.018	0.015	0.030	0.005	0.028	0.030	0.020	0.010	0.025	0.028	0.010	0.013	0.018	0.355
1.00	0.055	0.035	0.033	0.053	0.073	0.073	0.050	0.058	0.058	0.073	0.085	0.080	0.083	0.063	0.025	0.048	0.945
1.50	0.116	0.118	0.126	0.128	0.146	0.113	0.108	0.128	0.121	0.075	0.151	0.148	0.264	0.138	0.111	0.050	2.042
2.00	0.068	0.103	0.149	0.173	0.163	0.126	0.108	0.141	0.146	0.146	0.229	0.269	0.241	0.131	0.096	0.070	2.419
3.00	0.153	0.206	0.322	0.372	0.342	0.337	0.269	0.292	0.352	0.282	0.483	0.432	0.422	0.229	0.093	0.128	4.714
5.00	0.269	0.131	0.220	0.458	0.465	0.400	0.503	0.430	0.619	0.691	0.850	0.749	0.817	0.349	0.256	0.241	7.452
10.00	0.186	0.060	0.035	0.005	0.003	0.231	0.349	0.256	0.513	1.011	1.302	0.546	0.397	0.146	0.113	0.148	5.474
12.00	0.000	0.000	0.000	0.000	0.003	0.000	0.020	0.000	0.008	0.018	0.033	0.000	0.000	0.000	0.005	0.000	0.006
TOTAL	0.88	0.73	1.01	1.31	1.31	1.32	1.43	1.34	1.87	2.33	3.15	2.26	2.28	1.48	0.73	0.71	23.73

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS F

UWx (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.007	0.000	0.002	0.004	0.008	0.009	0.003	0.003	0.000	0.003	0.008	0.003	0.008	0.003	0.007	0.006	0.071
0.50	0.018	0.020	0.025	0.010	0.020	0.023	0.008	0.008	0.020	0.008	0.020	0.008	0.024	0.008	0.018	0.015	0.226
0.75	0.020	0.015	0.030	0.014	0.035	0.015	0.035	0.010	0.013	0.023	0.018	0.023	0.020	0.025	0.023	0.018	0.332
1.00	0.043	0.023	0.053	0.044	0.055	0.028	0.020	0.055	0.060	0.040	0.060	0.058	0.083	0.038	0.048	0.040	0.752
1.50	0.063	0.073	0.101	0.136	0.133	0.063	0.045	0.088	0.085	0.101	0.181	0.171	0.191	0.073	0.108	0.063	1.715
2.00	0.085	0.068	0.123	0.158	0.158	0.091	0.080	0.116	0.101	0.143	0.241	0.206	0.214	0.143	0.103	0.070	2.102
3.00	0.131	0.116	0.241	0.347	0.236	0.201	0.158	0.196	0.224	0.191	0.324	0.249	0.226	0.196	0.101	0.078	3.216
5.00	0.106	0.043	0.156	0.231	0.151	0.176	0.209	0.236	0.317	0.342	0.339	0.156	0.244	0.101	0.088	0.073	2.987
10.00	0.038	0.010	0.010	0.014	0.030	0.060	0.131	0.078	0.191	0.327	0.284	0.043	0.055	0.013	0.020	0.033	1.340
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.51	0.42	0.72	0.90	0.81	0.67	0.73	0.79	1.02	1.18	1.48	0.92	1.04	0.60	0.52	0.40	12.77

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS G

UWx (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.002	0.000	0.000	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.010
0.50	0.005	0.000	0.000	0.000	0.005	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.003	0.023
0.75	0.005	0.000	0.013	0.013	0.008	0.005	0.005	0.000	0.005	0.005	0.003	0.000	0.003	0.003	0.000	0.000	0.073
1.00	0.000	0.003	0.008	0.008	0.008	0.005	0.008	0.008	0.010	0.005	0.010	0.003	0.000	0.005	0.010	0.008	0.076
1.50	0.005	0.018	0.008	0.014	0.018	0.008	0.015	0.010	0.013	0.013	0.015	0.010	0.008	0.000	0.013	0.010	0.179
2.00	0.003	0.008	0.023	0.014	0.020	0.023	0.018	0.030	0.033	0.013	0.013	0.013	0.023	0.008	0.020	0.013	0.251
3.00	0.008	0.008	0.023	0.043	0.025	0.013	0.035	0.030	0.063	0.035	0.050	0.033	0.010	0.020	0.003	0.013	0.410
5.00	0.000	0.008	0.008	0.005	0.013	0.008	0.030	0.060	0.088	0.123	0.055	0.050	0.023	0.000	0.005	0.020	0.475
10.00	0.000	0.003	0.000	0.000	0.000	0.000	0.030	0.028	0.023	0.103	0.038	0.003	0.008	0.000	0.000	0.023	0.251
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.03	0.05	0.08	0.10	0.11	0.07	0.15	0.17	0.23	0.30	0.18	0.11	0.05	0.04	0.05	0.05	1.77

TOTAL HOURS CONSIDERED ARE 34775

90.00 1.00 1.00

WIND MEASURED AT 152.4 METERS.

OVERALL WIND DIRECTION FREQUENCY

WIND DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
FREQUENCIES	4.7	2.6	3.6	4.6	4.6	4.1	4.2	3.4	5.5	7.7	12.8	11.2	12.6	7.6	5.4	4.5	100.2

OVERALL WIND SPEED FREQUENCY

BEAVER VALLEY, PA 1977 THRU 1981 : JF1 INFO CAL# 25475 HT=152.0M DELTA T=0-L

COOLING TOWER (PROCESS VENT) CONTINUOUS ELEVATED RELEASE

NO DELAY, UNDEPLETED

CORRECTED USING SITE-SPECIFIC FACTORS

ANNUAL AVERAGE CH/10 (SEC/METER CORRED)

DISTANCE IN MILES FROM THE SITE

SECTION	0.25M	0.50M	0.75M	1.00M	1.50M	2.00M	2.50M	3.00M	3.50M	4.00M	4.50M
S	3.428E-04	4.321E-04	1.498E-08	1.297E-08	2.373E-08	3.782E-08	4.654E-08	5.144E-08	4.535E-08	4.827E-08	3.568E-08
SSW	1.228E-07	2.982E-09	4.195E-04	5.365E-09	1.024E-08	1.528E-08	1.916E-08	2.149E-08	2.109E-08	2.043E-08	2.345E-08
SW	2.729E-07	4.644E-04	5.465E-04	6.805E-04	1.113E-08	1.558E-08	1.918E-08	2.054E-08	2.381E-08	2.717E-08	3.318E-08
WSW	3.172E-04	5.488E-04	7.088E-04	1.153E-08	2.578E-08	4.274E-08	7.919E-08	9.036E-08	9.192E-08	9.942E-08	8.409E-08
W	2.597E-04	4.872E-04	5.779E-04	7.095E-04	1.126E-08	1.427E-08	1.751E-08	1.918E-08	2.000E-08	2.079E-08	2.177E-08
WNW	2.237E-04	4.126E-04	5.102E-04	6.005E-04	9.744E-04	1.493E-08	1.994E-08	2.244E-08	2.181E-08	2.069E-08	2.162E-08
NW	1.037E-07	3.470E-09	5.568E-04	7.411E-04	1.146E-08	1.480E-08	1.723E-08	1.869E-08	2.028E-08	2.214E-08	2.317E-08
WNW	5.612E-10	2.344E-04	3.458E-04	4.355E-04	8.600E-04	1.241E-08	1.629E-08	1.912E-08	2.015E-08	2.132E-08	2.324E-08
N	3.117E-04	4.764E-04	6.436E-04	8.291E-04	1.636E-08	3.229E-08	4.309E-08	4.452E-08	5.096E-08	5.528E-08	5.748E-08
NNE	1.128E-04	3.276E-04	8.041E-04	1.313E-08	3.115E-08	4.748E-08	5.835E-08	6.542E-08	6.590E-08	6.534E-08	7.186E-08
NE	1.416E-04	6.533E-04	1.151E-08	1.969E-08	4.680E-08	6.844E-08	8.547E-08	9.671E-08	1.057E-07	1.129E-07	1.133E-07
ENE	2.160E-04	6.274E-04	1.075E-08	1.643E-08	3.664E-08	5.196E-08	6.406E-08	7.253E-08	7.734E-08	7.821E-08	7.536E-08
E	1.448E-04	5.005E-04	1.725E-08	3.993E-08	6.524E-08	7.587E-08	7.279E-08	7.365E-08	7.801E-08	8.215E-08	
ESE	1.074E-10	3.115E-04	7.219E-04	1.133E-08	2.462E-08	3.715E-08	4.398E-08	5.125E-08	5.280E-08	5.276E-08	5.296E-08
SE	1.032E-04	3.226E-04	6.425E-04	9.106E-04	1.909E-08	2.738E-08	3.108E-08	3.205E-08	3.166E-08	3.078E-08	2.791E-08
SSE	1.007E-04	4.137E-04	7.070E-04	1.011E-08	3.205E-08	5.019E-08	5.813E-08	5.882E-08	5.145E-08	4.547E-08	4.041E-08

ANNUAL AVERAGE CH/10 (SEC/METER CORRED)

DISTANCE IN MILES FROM THE SITE

SECTION	5.00M	7.50M	10.00M	15.00M	20.00M	25.00M	30.00M	35.00M	40.00M	45.00M	50.00M
S	3.142E-08	2.906E-08	2.196E-08	1.254E-08	8.452E-09	6.232E-09	4.864E-09	3.948E-09	3.298E-09	2.816E-09	2.448E-09
SSW	2.694E-08	2.645E-08	1.748E-08	1.030E-08	6.966E-09	5.155E-09	4.042E-09	3.297E-09	2.758E-09	2.397E-09	2.049E-09
SW	4.000E-08	3.591E-08	2.471E-08	1.414E-08	9.557E-09	7.062E-09	5.522E-09	4.490E-09	3.756E-09	3.210E-09	2.791E-09
WSW	7.492E-08	4.340E-04	2.899E-08	1.654E-08	1.117E-08	8.256E-09	6.460E-09	5.254E-09	4.397E-09	3.754E-09	3.269E-09
W	2.260E-08	2.491E-08	3.435E-08	1.748E-08	1.182E-08	8.745E-09	6.848E-09	5.574E-09	4.667E-09	3.993E-09	3.470E-09
WNW	2.235E-08	2.626E-08	2.873E-08	1.642E-08	1.106E-08	8.810E-09	5.322E-09	4.324E-09	3.615E-09	3.084E-09	2.680E-09
NW	2.197E-08	2.174E-08	1.438E-08	1.399E-08	9.176E-09	6.799E-09	5.330E-09	4.343E-09	3.640E-09	3.116E-09	2.713E-09
WNW	2.515E-08	3.002E-08	2.296E-08	1.319E-08	8.941E-09	6.637E-09	5.199E-09	4.233E-09	3.545E-09	3.034E-09	2.640E-09
N	5.870E-08	4.485E-08	3.045E-08	1.756E-08	1.190E-08	8.813E-09	6.906E-09	5.625E-09	4.713E-09	4.034E-09	3.511E-09
NNE	7.487E-08	5.351E-08	3.444E-08	1.942E-08	1.322E-08	8.882E-09	6.944E-09	5.645E-09	4.721E-09	4.035E-09	3.508E-09
NE	1.092E-07	7.112E-08	4.678E-08	2.750E-08	1.867E-08	1.252E-08	9.760E-09	7.916E-09	6.608E-09	5.638E-09	4.890E-09
ENE	7.253E-08	5.240E-08	4.111E-08	2.204E-08	1.418E-08	1.040E-08	8.093E-09	6.551E-09	5.458E-09	4.649E-09	4.029E-09
E	8.457E-08	6.194E-08	4.130E-08	2.343E-08	1.571E-08	1.154E-08	8.977E-09	7.267E-09	6.156E-09	5.158E-09	4.471E-09
ESE	4.061E-08	3.686E-08	2.722E-08	1.489E-08	9.446E-09	6.436E-09	5.398E-09	4.371E-09	3.644E-09	3.105E-09	2.692E-09
SE	2.548E-08	1.946E-08	1.822E-08	1.348E-08	9.236E-09	6.745E-09	5.295E-09	4.293E-09	3.582E-09	3.055E-09	2.651E-09
SSE	3.873E-08	2.847E-08	1.908E-08	1.091E-08	7.515E-09	5.524E-09	4.302E-09	3.486E-09	2.908E-09	2.474E-09	2.151E-09

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 152.00
 DIAMETER (METERS) 0.25
 EXIT VELOCITY (METERS) 10.20

REF. WIND HEIGHT (METERS) 152.4
 BUILDING HEIGHT (METERS) 0.0
 HLOG, MIN, CRS, SEC, AREA (SQ. METERS) 0.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

ALL ELEVATED RELEASES.

HEAVEN VALLEY, PA 1977 THRU 1981 1 JFJ THRU CALM=25015 HT=152.4M DELTA THU-L

COULING TOWER (PROCESS VENT) CONTINUOUS ELEVATED RELEASE
NO DECAY, UNDEPLETED

CHIM (SPL/METER CONCO) FOR EACH SEGMENT

SEGMENT ADJACENCIES IN MILES FROM THE SITE

DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.127E-08	2.760E-08	4.617E-08	4.515E-08	3.558E-08	2.652E-08	1.291E-08	6.277E-09	3.962E-09	2.822E-09
SSW	4.432E-09	1.140E-08	1.446E-08	2.095E-08	2.385E-08	2.279E-08	1.052E-08	5.193E-09	3.304E-09	2.361E-09
SW	5.870E-09	1.215E-08	1.877E-08	2.415E-08	3.390E-08	3.180E-08	1.445E-08	7.111E-09	4.505E-09	3.216E-09
WSW	8.703E-09	3.015E-08	7.394E-08	9.433E-08	8.765E-08	4.444E-08	1.692E-08	8.314E-09	5.272E-09	3.767E-09
W	6.142E-09	1.167E-08	1.731E-08	2.007E-08	2.179E-08	2.602E-08	1.703E-08	8.006E-09	5.593E-09	4.001E-09
WNW	5.246E-09	1.122E-08	1.460E-08	2.136E-08	2.161E-08	2.649E-08	1.678E-08	7.348E-09	4.339E-09	3.075E-09
W	5.918E-09	1.205E-08	1.717E-08	2.055E-08	2.318E-08	2.119E-08	1.305E-08	6.846E-09	4.357E-09	3.122E-09
WNW	3.609E-09	9.354E-09	1.634E-08	2.030E-08	2.339E-08	2.580E-08	1.347E-08	6.674E-09	4.247E-09	3.039E-09
N	6.000E-09	2.165E-08	4.078E-08	5.077E-08	5.728E-08	4.153E-08	1.791E-08	8.872E-09	5.643E-09	4.042E-09
NNE	9.648E-09	3.440E-08	5.828E-08	6.537E-08	7.180E-08	5.022E-08	2.007E-08	9.265E-09	5.664E-09	4.043E-09
N	1.404E-08	5.040E-08	8.543E-08	1.059E-07	1.113E-07	6.855E-08	2.707E-08	1.306E-08	7.945E-09	5.650E-09
E	1.220E-08	3.897E-08	6.422E-08	7.630E-08	7.516E-08	5.200E-08	2.278E-08	1.049E-08	6.575E-09	4.659E-09
E	1.230E-08	4.616E-08	7.101E-08	7.507E-08	8.183E-08	5.780E-08	2.397E-08	1.163E-08	7.294E-09	5.170E-09
ESE	8.136E-09	2.723E-08	4.507E-08	5.234E-08	5.166E-08	3.430E-08	1.439E-08	6.990E-09	4.388E-09	3.112E-09
SE	6.772E-09	2.050E-08	3.048E-08	3.143E-08	2.706E-08	2.025E-08	1.272E-08	6.846E-09	4.309E-09	3.062E-09
SSE	7.760E-09	3.524E-08	5.629E-08	5.128E-08	4.055E-08	2.613E-08	1.122E-08	5.566E-09	3.499E-09	2.485E-09

AVERAGE EFFECTIVE STACK HEIGHT IN METERS FOR EACH SEGMENT

DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.424E+02	1.278E+02	1.036E+02	8.992E+01	7.607E+01	2.936E+01	1.919E+00	6.147E-02	9.436E-04	0.000E+00
SSW	1.418E+02	1.294E+02	1.162E+02	1.029E+02	8.768E+01	3.251E+01	8.115E+00	6.099E+00	1.303E+00	2.424E-02
SW	1.427E+02	1.284E+02	1.147E+02	1.013E+02	8.359E+01	3.002E+01	2.189E+00	1.319E+01	1.910E-02	1.910E-02
WSW	1.241E+02	1.031E+02	6.403E+01	3.784E+01	1.311E+01	6.758E-01	8.113E-03	6.838E-03	6.117E-03	6.046E-03
W	1.459E+02	1.345E+02	1.246E+02	1.153E+02	1.032E+02	4.537E+01	1.022E+00	1.145E-03	1.145E-03	1.145E-03
WNW	1.471E+02	1.366E+02	1.226E+02	1.116E+02	1.030E+02	4.426E+01	6.929E-01	0.000E+00	0.000E+00	0.000E+00
N	1.432E+02	1.314E+02	1.246E+02	1.056E+02	8.903E+01	5.842E+01	1.185E+01	5.190E-01	5.190E-01	5.190E-01
NNE	1.407E+02	1.297E+02	1.136E+02	9.896E+01	8.203E+01	2.837E+01	4.921E+00	1.469E+00	5.460E-01	5.460E-01
N	1.421E+02	1.217E+02	9.075E+01	6.663E+01	4.686E+01	1.432E+01	2.202E+00	5.382E-01	3.441E-01	5.147E-02
NNE	1.309E+02	1.121E+02	9.022E+01	6.806E+01	4.605E+01	7.956E+00	2.786E-03	2.487E-03	2.137E-03	5.126E-04
E	1.347E+02	1.160E+02	9.433E+01	7.162E+01	4.929E+01	2.412E+01	7.100E+00	5.049E-03	1.218E-04	0.000E+00
E	1.343E+02	1.223E+02	1.052E+02	8.771E+01	7.344E+01	3.270E+01	1.232E+00	6.982E-04	1.243E-04	0.000E+00
E	1.393E+02	1.141E+02	9.540E+01	7.718E+01	5.472E+01	1.542E+01	2.206E+00	4.407E-02	4.170E-03	1.067E-03
ESE	1.446E+02	1.261E+02	1.060E+02	7.927E+01	5.395E+01	1.744E+01	2.135E+00	1.439E-01	5.351E-02	4.551E-04
SE	1.427E+02	1.324E+02	1.213E+02	1.090E+02	9.537E+01	6.727E+01	1.250E+01	1.294E-02	2.124E-03	0.840E-04
SSE	1.400E+02	1.150E+02	9.005E+01	7.199E+01	5.583E+01	2.270E+01	7.063E+00	3.418E-03	0.000E+00	0.000E+00

BEAVER VALLEY, PA 1977 THRU 1981 1 JFH (WIND CALCD 25M/S MIN 152.4M DELTA T=0-L

COOLING TOWER (PROCESS VENT) CONTINUOUS ELEVATED RELEASE

2.26M DAY DECAY, UNCOMPLETED
CORRECTED USING SITE-SPECIFIC FACTORS

SECTION	ANNUAL AVERAGE CHIT/D (SEC/METER CUBE)										
	0.25M	0.50M	0.75M	1.00M	1.50M	2.00M	2.50M	3.00M	3.50M	4.00M	4.50M
S	3.826E-09	8.314E-09	1.097E-08	1.294E-08	2.364E-08	3.761E-08	4.614E-08	5.092E-08	4.476E-08	3.959E-08	3.487E-08
SSW	1.227E-09	2.979E-09	4.144E-09	5.353E-09	1.014E-08	1.517E-08	1.897E-08	2.123E-08	2.076E-08	2.005E-08	2.291E-08
SW	2.727E-09	4.594E-09	5.954E-09	6.784E-09	1.109E-08	1.547E-08	1.899E-08	2.027E-08	2.342E-08	2.643E-08	3.233E-08
WSW	3.171E-09	5.076E-09	7.078E-09	1.150E-08	2.566E-08	4.241E-08	7.027E-08	8.900E-08	9.023E-08	4.725E-08	8.686E-08
W	2.596E-09	4.867E-09	5.778E-09	7.080E-09	1.122E-08	1.419E-08	1.738E-08	1.898E-08	1.975E-08	2.044E-08	2.139E-08
WNW	2.236E-09	4.122E-09	5.044E-09	5.991E-09	9.705E-09	1.484E-08	1.976E-08	2.219E-08	2.150E-08	2.034E-08	2.119E-08
NW	1.936E-09	3.467E-09	5.552E-09	7.395E-09	1.142E-08	1.471E-08	1.708E-08	1.847E-08	1.994E-08	2.184E-08	2.269E-08
NNW	6.411E-10	2.342E-09	3.454E-09	4.347E-09	8.567E-09	1.234E-08	1.616E-08	1.891E-08	1.988E-08	2.048E-08	2.282E-08
N	3.410E-09	4.756E-09	6.426E-09	8.274E-09	1.630E-08	3.207E-08	4.265E-08	4.390E-08	5.005E-08	5.405E-08	5.597E-08
NNE	1.427E-09	5.272E-09	8.432E-09	1.311E-08	3.104E-08	4.724E-08	5.791E-08	6.476E-08	6.506E-08	6.437E-08	7.054E-08
NE	1.416E-09	5.527E-09	1.149E-08	1.466E-08	4.668E-08	6.817E-08	8.501E-08	9.602E-08	1.047E-07	1.115E-07	1.115E-07
ENE	2.160E-09	6.269E-09	1.073E-08	1.640E-08	3.650E-08	5.174E-08	6.369E-08	7.198E-08	7.659E-08	7.728E-08	7.430E-08
E	1.404E-09	5.001E-09	1.455E-08	1.721E-08	3.983E-08	6.501E-08	7.541E-08	7.218E-08	7.285E-08	7.696E-08	8.070E-08
ESE	1.473E-09	3.113E-09	7.211E-09	1.132E-08	2.455E-08	3.701E-08	4.374E-08	5.087E-08	5.230E-08	5.205E-08	5.206E-08
SE	1.431E-09	3.223E-09	6.017E-09	9.090E-09	1.903E-08	2.726E-08	3.089E-08	3.178E-08	3.131E-08	3.035E-08	2.742E-08
SSE	1.007E-09	4.133E-09	7.064E-09	1.009E-08	3.194E-08	4.991E-08	5.767E-08	5.818E-08	5.072E-08	4.465E-08	3.949E-08

SECTION	ANNUAL AVERAGE CHIT/D (SEC/METER CUBE)										
	5.00M	7.50M	10.00M	15.00M	20.00M	25.00M	30.00M	35.00M	40.00M	45.00M	50.00M
S	3.104E-08	2.755E-08	2.429E-08	1.111E-08	7.214E-09	5.136E-09	3.879E-09	3.052E-09	2.474E-09	2.053E-09	1.735E-09
SSW	2.419E-08	2.496E-08	1.659E-08	9.153E-09	5.976E-09	4.277E-09	3.247E-09	2.568E-09	2.087E-09	1.734E-09	1.467E-09
SW	3.873E-08	3.437E-08	2.529E-08	1.297E-08	8.531E-09	6.142E-09	4.684E-09	3.717E-09	3.036E-09	2.536E-09	2.155E-09
WSW	7.476E-08	4.158E-08	2.740E-08	1.523E-08	1.003E-08	7.239E-09	5.535E-09	4.402E-09	3.605E-09	3.018E-09	2.571E-09
W	2.214E-08	2.391E-08	2.823E-08	1.570E-08	1.027E-08	7.369E-09	5.603E-09	4.434E-09	3.614E-09	3.012E-09	2.555E-09
WNW	2.142E-08	2.505E-08	2.664E-08	1.473E-08	9.610E-09	5.741E-09	4.360E-09	3.448E-09	2.809E-09	2.341E-09	1.986E-09
NW	2.340E-08	2.087E-08	1.827E-08	1.267E-08	8.063E-09	5.809E-09	4.433E-09	3.522E-09	2.880E-09	2.404E-09	2.050E-09
NNW	2.460E-08	2.892E-08	2.185E-08	1.226E-08	8.124E-09	5.900E-09	4.526E-09	3.611E-09	2.965E-09	2.404E-09	2.125E-09
N	5.693E-08	4.274E-08	2.857E-08	1.600E-08	1.055E-08	7.618E-09	5.826E-09	4.637E-09	3.800E-09	3.184E-09	2.715E-09
NNE	7.524E-08	5.175E-08	3.295E-08	1.839E-08	1.215E-08	8.004E-09	6.140E-09	4.910E-09	4.037E-09	3.393E-09	2.902E-09
NE	1.262E-07	6.890E-08	4.482E-08	2.579E-08	1.716E-08	1.127E-08	8.624E-09	6.869E-09	5.634E-09	4.725E-09	4.032E-09
ENE	7.136E-08	5.136E-08	3.447E-08	2.074E-08	1.308E-08	9.424E-09	7.197E-09	5.722E-09	4.684E-09	3.922E-09	3.341E-09
E	8.271E-08	5.959E-08	3.923E-08	2.171E-08	1.421E-08	1.020E-08	7.764E-09	6.154E-09	5.024E-09	4.196E-09	3.567E-09
ESE	4.854E-08	3.547E-08	2.547E-08	1.503E-08	8.522E-09	6.111E-09	4.648E-09	3.681E-09	3.003E-09	2.506E-09	2.124E-09
SE	2.445E-08	1.871E-08	1.739E-08	1.225E-08	7.490E-09	5.694E-09	4.306E-09	3.392E-09	2.754E-09	2.288E-09	1.936E-09
SSE	3.471E-08	2.701E-08	1.777E-08	9.816E-09	6.521E-09	4.845E-09	3.511E-09	2.765E-09	2.245E-09	1.864E-09	1.577E-09

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 152.4
DIAMETER (METERS) 0.25
EXIT VELOCITY (METERS) 10.24

REF. WIND HEIGHT (METERS) 152.4
BUILDING HEIGHT (METERS) 0.0
LOG. MIN. CRS. SEC. AREA (SQ. METERS) 0.0
HEAT EMISSION RATE (CAL/SEC) 0.0

ALL ELEVATED RELEASES.

BEAVER VALLEY, PA 1977 THRU 1981 : JFO INPU CALN# 25075 HT#152.01 DELTA T=0-L

COMPLING TIME# (PROCESS VENT): CONTINUOUS ELEVATED RELEASE
2.260 DAY DECAY, UNDEPLETED

CH124 (INCOMETER CODE) FOR EACH SEGMENT

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.125E-08	2.747E-08	4.579E-08	4.455E-08	3.485E-08	2.508E-08	1.141E-08	5.187E-09	3.468E-09	2.060E-09
SSW	4.424E-09	1.135E-08	1.886E-08	2.062E-08	2.328E-08	2.152E-08	9.394E-09	4.318E-09	2.579E-09	1.740E-09
SW	5.855E-09	1.240E-08	1.856E-08	2.374E-08	3.308E-08	3.046E-08	1.329E-08	6.196E-09	3.734E-09	2.543E-09
WSW	8.687E-09	2.496E-08	7.380E-08	9.255E-08	8.546E-08	4.265E-08	1.563E-08	7.302E-09	4.422E-09	3.026E-09
W	6.151E-09	1.162E-08	1.717E-08	1.981E-08	2.140E-08	2.544E-08	1.607E-08	7.437E-09	4.456E-09	3.021E-09
WNW	5.277E-09	1.110E-08	1.442E-08	2.126E-08	2.117E-08	2.506E-08	1.511E-08	6.220E-09	3.465E-09	2.348E-09
NW	5.408E-09	1.199E-08	1.741E-08	2.024E-08	2.269E-08	2.028E-08	1.187E-08	5.860E-09	3.538E-09	2.416E-09
WNW	5.634E-09	9.305E-09	1.624E-08	2.002E-08	2.243E-08	2.402E-08	1.255E-08	5.943E-09	3.626E-09	2.495E-09
N	6.876E-09	2.153E-08	4.033E-08	4.982E-08	5.576E-08	3.960E-08	1.637E-08	7.683E-09	4.658E-09	3.173E-09
NNE	9.673E-09	3.426E-08	5.781E-08	6.471E-08	7.046E-08	4.862E-08	1.885E-08	8.369E-09	4.931E-09	3.402E-09
NE	1.402E-08	5.023E-08	8.443E-08	1.048E-07	1.095E-07	6.648E-08	2.618E-08	1.178E-08	6.900E-09	4.737E-09
ENE	1.226E-08	3.883E-08	6.382E-08	7.554E-08	7.410E-08	5.052E-08	2.150E-08	9.510E-09	5.748E-09	3.933E-09
E	1.228E-08	4.599E-08	7.135E-08	7.420E-08	8.032E-08	5.568E-08	2.227E-08	1.030E-08	6.184E-09	4.208E-09
ESE	8.123E-09	5.715E-08	4.480E-08	5.180E-08	5.077E-08	3.305E-08	1.335E-08	6.169E-09	3.649E-09	2.514E-09
SE	6.702E-09	2.048E-08	3.028E-08	3.108E-08	2.737E-08	1.937E-08	1.143E-08	5.751E-09	3.410E-09	2.295E-09
SSE	7.755E-09	3.507E-08	5.501E-08	5.054E-08	3.962E-08	2.484E-08	1.012E-08	4.692E-09	2.780E-09	1.870E-09

HEAVENVALLEY, PA 1977 THRU 1981 1 JED INFO CALCD 250725 H1152.00 DELTA T=0.1

COOLING TOWER (PROCESS VENT) CONTINUOUS ELEVATED RELEASE

R. 200 DAY DECAY, DEPLETED
CORRECTED USING SITE-SPECIFIC FACTORS

ANNUAL AVERAGE CH1/0 (SEC/METER CUMED)

DISTANCE IN MILES FROM THE SITE

SECTION	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.927E-04	8.299E-04	1.072E-03	1.256E-03	2.306E-03	3.673E-03	4.502E-03	4.954E-03	4.354E-03	3.858E-03	3.401E-03
SSW	1.224E-04	2.955E-04	4.455E-04	5.212E-04	1.000E-03	1.484E-03	1.858E-03	2.076E-03	2.031E-03	1.963E-03	2.259E-03
SW	2.724E-04	4.561E-04	5.332E-04	6.608E-04	1.084E-03	1.524E-03	1.863E-03	1.986E-03	2.296E-03	2.617E-03	3.187E-03
WSW	3.172E-04	5.034E-04	6.428E-04	1.130E-03	2.538E-03	4.197E-03	7.772E-03	8.851E-03	8.992E-03	9.707E-03	8.657E-03
W	2.547E-04	4.824E-04	5.638E-04	6.844E-04	1.100E-03	1.390E-03	1.697E-03	1.849E-03	1.920E-03	1.991E-03	2.081E-03
WNW	2.236E-04	4.088E-04	4.978E-04	5.817E-04	9.474E-04	1.452E-03	1.933E-03	2.167E-03	2.100E-03	1.987E-03	2.071E-03
NW	1.937E-04	3.438E-04	5.425E-04	7.182E-04	1.114E-03	1.438E-03	1.669E-03	1.800E-03	1.955E-03	2.134E-03	2.232E-03
NNW	6.612E-04	2.322E-03	3.375E-03	4.224E-03	8.411E-03	1.212E-03	1.587E-03	1.857E-03	1.954E-03	2.068E-03	2.256E-03
N	3.016E-04	4.716E-04	6.280E-04	8.045E-04	1.597E-03	3.157E-03	4.212E-03	4.347E-03	4.972E-03	5.394E-03	5.682E-03
NNE	1.924E-04	5.227E-04	7.861E-04	1.286E-03	3.463E-03	4.653E-03	5.698E-03	6.375E-03	6.413E-03	6.354E-03	6.989E-03
NE	1.416E-04	6.472E-04	1.125E-03	1.928E-03	4.601E-03	6.694E-03	8.328E-03	9.395E-03	1.025E-03	1.094E-03	1.097E-03
ENE	2.160E-04	6.216E-04	1.254E-03	1.601E-03	3.597E-03	5.074E-03	6.222E-03	7.013E-03	7.455E-03	7.521E-03	7.227E-03
E	1.448E-04	4.954E-04	1.032E-03	1.681E-03	3.915E-03	6.382E-03	7.386E-03	7.857E-03	7.118E-03	7.327E-03	7.425E-03
ESE	1.374E-04	3.086E-04	7.449E-04	1.104E-03	2.404E-03	3.622E-03	4.265E-03	4.952E-03	5.094E-03	5.078E-03	5.095E-03
SE	1.432E-04	3.196E-04	5.882E-04	8.863E-04	1.866E-03	2.667E-03	3.807E-03	3.880E-03	3.025E-03	2.927E-03	2.640E-03
SSE	1.007E-04	4.094E-04	6.702E-04	9.836E-04	3.145E-03	4.901E-03	5.645E-03	5.683E-03	4.947E-03	4.357E-03	3.862E-03

ANNUAL AVERAGE CH1/0 (SEC/METER CUMED)

DISTANCE IN MILES FROM THE SITE

SECTION	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.032E-03	2.740E-03	1.946E-03	1.067E-03	6.802E-04	4.776E-04	3.566E-04	2.779E-04	2.235E-04	1.841E-04	1.545E-04
SSW	2.585E-03	2.518E-03	1.650E-03	8.441E-04	5.662E-04	3.996E-04	3.001E-04	2.353E-04	1.897E-04	1.566E-04	1.317E-04
SW	3.453E-03	3.427E-03	2.278E-03	1.225E-03	7.868E-04	5.564E-04	4.178E-04	3.276E-04	2.649E-04	2.193E-04	1.850E-04
WSW	7.396E-03	3.985E-03	2.508E-03	1.368E-03	8.762E-04	6.185E-04	4.644E-04	3.538E-04	2.939E-04	2.432E-04	2.050E-04
W	2.159E-03	2.376E-03	2.446E-03	1.539E-03	9.871E-04	6.976E-04	5.241E-04	4.107E-04	3.320E-04	2.747E-04	2.316E-04
WNW	2.137E-03	2.549E-03	2.693E-03	1.444E-03	9.222E-04	5.422E-04	4.066E-04	3.181E-04	2.567E-04	2.122E-04	1.787E-04
NW	2.348E-03	2.083E-03	1.849E-03	1.254E-03	7.813E-04	5.538E-04	4.171E-04	3.276E-04	2.650E-04	2.201E-04	1.859E-04
NNW	2.494E-03	2.488E-03	2.132E-03	1.153E-03	7.434E-04	5.285E-04	3.984E-04	3.132E-04	2.539E-04	2.104E-04	1.782E-04
N	5.706E-03	4.211E-03	2.748E-03	1.486E-03	9.549E-04	6.755E-04	5.079E-04	3.983E-04	3.223E-04	2.664E-04	2.252E-04
NNE	7.457E-03	5.021E-03	3.110E-03	1.666E-03	1.068E-03	6.868E-04	5.166E-04	4.054E-04	3.282E-04	2.720E-04	2.298E-04
NE	1.404E-03	6.658E-03	4.222E-03	2.317E-03	1.498E-03	9.595E-04	7.194E-04	5.630E-04	4.546E-04	3.760E-04	3.169E-04
ENE	6.949E-03	5.019E-03	3.404E-03	1.923E-03	1.178E-03	8.294E-04	6.215E-04	4.863E-04	3.926E-04	3.247E-04	2.737E-04
E	4.151E-03	5.780E-03	3.749E-03	1.976E-03	1.258E-03	8.432E-04	6.600E-04	5.150E-04	4.107E-04	3.421E-04	2.877E-04
ESE	4.765E-03	3.431E-03	2.615E-03	1.185E-03	7.544E-04	5.292E-04	3.954E-04	3.085E-04	2.484E-04	2.049E-04	1.723E-04
SE	2.404E-03	1.815E-03	1.692E-03	1.206E-03	7.725E-04	5.427E-04	4.057E-04	3.166E-04	2.549E-04	2.102E-04	1.767E-04
SSE	3.504E-03	2.637E-03	1.708E-03	9.010E-04	5.858E-04	4.104E-04	3.055E-04	2.377E-04	1.909E-04	1.570E-04	1.317E-04

VENT AND DILUTING PARAMETERS

RELEASE HEIGHT (METERS) 152.0
DIAMETER (METERS) 0.25
EXIT VELOCITY (METERS) 10.20

REF. WIND HEIGHT (METERS) 152.0
DILUTING HEIGHT (METERS) 0.9
ALOG. MIN. CRS. SEC. AREA (SQ. METERS) 0.0
HEAT ENTSY (0.0 WAT (CAL/SEC) 0.0

ALL ELEVATED RELEASES.

HEAVEN VALLEY, PA 1977 THRU 1981 : JED INFL CALIB, 25M/5 DT=152.4M DELTA THU=L

COILING TIMER (PROCESS VENT) CONTINUOUS ELEVATED RELEASE
8.30M DAY DECAY, DEPLETED

CH1/2 (SECC/PIETH CODE) FOR EACH SEGMENT

	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.239E-08	2.680E-08	4.462E-08	4.337E-08	3.400E-08	2.475E-08	1.101E-08	4.832E-09	2.747E-09	1.848E-09
SSW	4.325E-09	1.111E-08	1.647E-08	2.018E-08	2.289E-08	2.147E-08	9.130E-09	4.042E-09	2.364E-09	1.572E-09
SW	5.728E-09	1.185E-08	1.820E-08	2.330E-08	3.265E-08	3.011E-08	1.264E-08	5.623E-09	3.245E-09	2.291E-09
WSW	8.537E-09	2.462E-08	7.250E-08	9.220E-08	8.501E-08	4.109E-08	1.414E-08	6.256E-09	3.659E-09	2.441E-09
W	6.413E-09	1.137E-08	1.676E-08	1.927E-08	2.093E-08	2.537E-08	1.584E-08	7.054E-09	4.131E-09	2.757E-09
WNW	5.153E-09	1.091E-08	1.699E-08	2.076E-08	2.071E-08	2.507E-08	1.409E-08	5.893E-09	3.200E-09	2.130E-09
NW	5.764E-09	1.170E-08	1.661E-08	1.982E-08	2.232E-08	2.029E-08	1.176E-08	5.598E-09	3.295E-09	2.208E-09
WNW	3.518E-09	9.130E-09	1.545E-08	1.970E-08	2.268E-08	2.052E-08	1.188E-08	5.338E-09	3.150E-09	2.115E-09
N	6.717E-09	2.114E-08	3.965E-08	4.953E-08	5.578E-08	3.893E-08	1.531E-08	6.830E-09	4.007E-09	2.679E-09
NNE	9.478E-09	3.375E-08	5.640E-08	6.382E-08	6.476E-08	4.713E-08	1.721E-08	7.203E-09	4.077E-09	2.730E-09
NE	1.375E-08	4.940E-08	8.520E-08	1.027E-07	1.077E-07	6.420E-08	2.377E-08	1.007E-08	5.664E-09	3.774E-09
ENE	1.240E-08	3.810E-08	6.232E-08	7.354E-08	7.209E-08	4.906E-08	2.010E-08	8.392E-09	4.642E-09	3.260E-09
E	1.201E-08	3.515E-08	6.486E-08	7.256E-08	7.841E-08	5.386E-08	2.042E-08	8.939E-09	5.102E-09	3.435E-09
ESE	7.441E-09	2.658E-08	4.368E-08	5.047E-08	4.968E-08	3.187E-08	1.222E-08	5.356E-09	3.104E-09	2.057E-09
SE	6.610E-09	2.004E-08	2.943E-08	3.003E-08	2.640E-08	1.842E-08	1.122E-08	5.492E-09	3.186E-09	2.111E-09
SSE	7.503E-09	3.445E-08	5.462E-08	4.933E-08	3.876E-08	2.414E-08	9.385E-09	4.151E-09	2.342E-09	1.577E-09

HEAVEN HALL, PA 1977 THRU 1981 2 JED INH CAL# 25478 HT#152.04 DELTA THU-L

COOLING TOWER (PROCESS VENT): CONTINUOUS ELEVATED RELEASE

CONNECTED USING SITE-SPECIFIC FACTORS

***** RELATIVE DEPOSITION PER UNIT AREA (Mg-m⁻²) AT FIXED POINTS BY DIRECTION SECTIONS *****

DIRECTION

DISTANCES IN MILES

FROM SITE	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.314E-10	1.095E-10	9.626E-11	8.425E-11	6.808E-11	5.568E-11	4.347E-11	3.464E-11	2.554E-11	1.730E-11	1.505E-11
SSW	4.107E-11	3.764E-11	3.585E-11	3.483E-11	2.424E-11	1.818E-11	1.432E-11	1.146E-11	8.575E-12	6.564E-12	5.427E-12
SW	5.721E-11	4.984E-11	4.716E-11	4.544E-11	2.602E-11	1.695E-11	1.334E-11	1.068E-11	9.152E-12	7.853E-12	7.419E-12
WSW	6.414E-11	5.979E-11	5.721E-11	5.576E-11	3.194E-11	2.485E-11	2.374E-11	1.857E-11	1.778E-11	1.496E-11	2.258E-11
W	6.522E-11	5.872E-11	5.830E-11	5.822E-11	3.393E-11	2.224E-11	1.762E-11	1.414E-11	1.149E-11	9.459E-12	7.868E-12
WNW	5.955E-11	5.284E-11	5.101E-11	5.013E-11	3.368E-11	2.456E-11	1.938E-11	1.553E-11	1.154E-11	8.789E-12	7.654E-12
NW	7.178E-11	6.144E-11	5.570E-11	5.254E-11	3.299E-11	2.316E-11	1.738E-11	1.340E-11	1.038E-11	8.194E-12	6.815E-12
N	4.610E-11	4.110E-11	4.026E-11	3.986E-11	2.351E-11	1.561E-11	1.232E-11	9.882E-12	7.633E-12	6.010E-12	4.990E-12
ENE	8.298E-11	7.158E-11	6.688E-11	6.413E-11	4.256E-11	3.095E-11	2.022E-11	1.732E-11	1.392E-11	1.114E-11	9.201E-12
E	8.298E-11	7.158E-11	6.688E-11	6.413E-11	4.256E-11	3.095E-11	2.022E-11	1.732E-11	1.392E-11	1.114E-11	9.201E-12
ENE	4.156E-11	4.726E-11	4.309E-11	4.707E-11	6.823E-11	5.070E-11	3.867E-11	3.473E-11	2.788E-11	2.074E-11	1.785E-11
E	1.424E-11	1.474E-11	1.715E-11	1.872E-11	1.296E-11	9.435E-12	7.533E-12	6.076E-12	6.191E-12	4.976E-12	3.921E-12
ENE	1.376E-11	1.414E-11	1.615E-11	1.747E-11	1.192E-11	8.604E-12	7.172E-12	5.994E-12	4.885E-12	4.796E-12	4.035E-12
E	1.540E-11	1.566E-11	1.843E-11	2.023E-11	1.393E-11	1.008E-11	7.284E-12	5.415E-12	5.434E-12	4.401E-12	3.651E-12
ESE	1.211E-11	1.173E-11	1.276E-11	1.344E-11	9.880E-12	7.558E-12	5.772E-12	4.494E-12	3.877E-12	3.106E-12	2.428E-12
SE	9.339E-12	9.118E-12	9.882E-12	1.040E-11	7.632E-12	5.836E-12	4.456E-12	3.469E-12	2.707E-12	2.148E-12	1.623E-12
SSW	8.944E-12	8.104E-12	8.123E-12	8.159E-12	6.283E-12	5.023E-12	3.835E-12	3.204E-12	2.673E-12	1.937E-12	1.447E-12

DIRECTION

DISTANCES IN MILES

FROM SITE	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.167E-11	8.043E-12	6.834E-12	5.456E-12	2.042E-12	1.403E-12	1.005E-12	7.558E-13	5.870E-13	4.684E-13	3.827E-13
SSW	6.147E-12	4.984E-12	3.966E-12	1.956E-12	1.183E-12	7.928E-13	5.695E-13	4.283E-13	3.330E-13	2.664E-13	2.171E-13
SW	8.281E-12	6.945E-12	5.929E-12	2.792E-12	1.664E-12	1.113E-12	7.974E-13	5.988E-13	4.656E-13	3.714E-13	3.036E-13
WSW	2.133E-12	1.046E-12	8.561E-13	3.316E-13	2.407E-13	1.346E-13	9.643E-14	7.241E-14	5.630E-14	4.497E-14	3.671E-14
W	6.409E-12	3.931E-12	7.079E-13	3.579E-13	2.166E-13	1.453E-13	1.041E-13	7.815E-14	6.077E-14	4.854E-14	3.962E-14
WNW	6.498E-12	3.982E-12	7.518E-13	3.883E-13	2.300E-13	1.286E-13	9.214E-14	6.919E-14	5.380E-14	4.297E-14	3.508E-14
NW	5.727E-12	3.396E-12	5.105E-13	3.491E-13	2.033E-13	1.363E-13	9.769E-14	7.336E-14	5.704E-14	4.556E-14	3.719E-14
NNW	5.419E-12	6.436E-13	5.002E-13	2.955E-13	1.776E-13	1.191E-13	8.533E-14	6.408E-14	4.982E-14	3.980E-14	3.248E-14
N	1.241E-12	1.279E-12	8.048E-13	4.070E-13	2.464E-13	1.652E-13	1.184E-13	8.888E-14	6.911E-14	5.523E-14	4.508E-14
ENE	2.242E-12	2.066E-12	1.247E-12	6.302E-13	3.812E-13	2.325E-13	1.666E-13	1.251E-13	9.726E-14	7.764E-14	6.341E-14
E	4.087E-12	2.406E-12	1.655E-12	1.044E-12	6.449E-13	3.929E-13	2.816E-13	2.114E-13	1.644E-13	1.313E-13	1.072E-13
ENE	3.382E-12	1.839E-12	1.827E-12	8.736E-13	5.083E-13	3.408E-13	2.442E-13	1.834E-13	1.426E-13	1.134E-13	9.295E-14
E	3.068E-12	2.898E-12	1.621E-12	9.276E-13	5.572E-13	3.736E-13	2.677E-13	2.010E-13	1.563E-13	1.249E-13	1.019E-13
ESE	2.085E-12	1.721E-12	1.092E-12	5.518E-13	3.340E-13	2.239E-13	1.605E-13	1.205E-13	9.348E-14	7.483E-14	6.108E-14
SE	1.254E-12	7.050E-13	4.473E-13	4.480E-13	2.712E-13	1.818E-13	1.303E-13	9.783E-14	7.607E-14	6.077E-14	4.964E-14
SSW	1.112E-12	8.122E-13	6.202E-13	3.364E-13	2.025E-13	1.358E-13	9.729E-14	7.305E-14	5.680E-14	4.537E-14	3.704E-14

HEAVEN VALLEY, PA 1977 TOWN 1981 1 JFD INFD CALM, 25M/5 HT=152.4M DELTA T=0=L

CONTINUING TOWER (PROCESS VENT): CONTINUOUS ELEVATED RELEASE

***** RELATIVE DEPOSITION PER UNIT AREA (MG/M ²) BY DOWNWIND SECTORS *****										
SEGMENT BOUNDARIES IN MILES										
DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.549E-10	9.749E-10	9.319E-10	2.438E-10	1.449E-10	8.312E-11	3.604E-11	1.928E-11	7.626E-12	4.720E-12
SSW	3.590E-10	2.590E-10	1.420E-10	8.636E-11	6.199E-11	4.744E-11	2.037E-11	8.074E-12	4.323E-12	2.678E-12
SW	4.747E-10	2.635E-10	1.320E-10	9.088E-11	7.867E-11	6.573E-11	2.857E-11	1.133E-11	6.048E-12	3.743E-12
WSW	5.717E-10	3.231E-10	2.044E-10	1.693E-10	1.986E-10	1.114E-10	3.456E-11	1.370E-11	7.314E-12	4.527E-12
W	5.436E-10	3.415E-10	1.747E-10	1.147E-10	7.873E-11	5.925E-11	3.729E-11	1.478E-11	7.494E-12	4.886E-12
WNW	5.099E-10	3.328E-10	1.722E-10	1.163E-10	7.636E-11	6.157E-11	3.964E-11	1.410E-11	6.488E-12	4.325E-12
NW	5.546E-10	3.297E-10	1.733E-10	1.041E-10	6.821E-11	4.670E-11	3.202E-11	1.387E-11	7.409E-12	4.586E-12
NNW	4.027E-10	2.303E-10	1.222E-10	7.657E-11	5.306E-11	5.839E-11	3.057E-11	1.212E-11	6.472E-12	4.006E-12
N	4.670E-10	4.224E-10	2.144E-10	1.346E-10	1.098E-10	1.060E-10	4.240E-11	1.601E-11	8.477E-12	5.559E-12
NNE	4.355E-10	6.645E-10	4.030E-10	2.712E-10	2.047E-10	1.743E-10	6.565E-11	2.458E-11	1.263E-11	7.420E-12
NE	1.731E-09	1.264E-09	7.457E-10	5.695E-10	4.295E-10	2.446E-10	1.009E-10	4.154E-11	2.135E-11	1.322E-11
ENE	1.629E-09	1.168E-09	7.062E-10	5.168E-10	4.019E-10	2.176E-10	9.230E-11	3.468E-11	1.852E-11	1.146E-11
E	1.861E-09	1.362E-09	7.282E-10	5.058E-10	3.817E-10	2.546E-10	9.591E-11	3.802E-11	2.034E-11	1.257E-11
ESE	1.243E-09	9.644E-10	5.737E-10	3.760E-10	2.502E-10	1.522E-10	5.750E-11	2.279E-11	1.217E-11	7.533E-12
SE	4.941E-10	7.048E-10	4.429E-10	2.712E-10	1.640E-10	7.249E-11	3.693E-11	1.850E-11	9.882E-12	6.116E-12
SSE	4.136E-10	6.140E-10	3.844E-10	2.545E-10	1.468E-10	7.935E-11	3.598E-11	1.382E-11	7.374E-12	4.567E-12

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 152.4M
DIAMETER (METERS) 0.25
EXIT VELOCITY (METERS) 10.20

REF. WIND HEIGHT (METERS) 152.4
BUILDING HEIGHT (METERS) 0.0
WLOG, MIN, CRS, SEC, AREA (SQ. METERS) 0.0
HEAT EMISSION RATE (CAL/SEC) 0.0

ALL ELEVATED RELEASES.

REARFIELD, PA 1977 INCH CALIB. 25MM/8 HRT152.0M DELTA T=0-L

CONJUG. TOWER FLOODING VENTIL CONTINUOUS FLEVATED RELEASE

COMPETITION USING SITE-SPECIFIC FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE TO	TYPE OF LOCATION	DIRECTION FROM SITE	DISTANCE (MILES)	(METERS)	X/Y (SEC/CUB. METER) NO DECAY	X/Y (SEC/CUB. METER) UNDEPLETED	X/Y (SEC/CUB. METER) UNDEPLETED	U/Q (PER SQ. METER)
A	FIRST PLANT HURRY	S	0.60	1100.	1.0E-08	1.0E-08	1.0E-08	9.0E-10
A	FIRST PLANT HURRY	SSW	0.75	1200.	0.1E-09	0.1E-09	0.1E-09	5.0E-10
A	FIRST PLANT HURRY	SW	0.99	1600.	6.7E-09	6.7E-09	6.5E-09	4.0E-10
A	FIRST PLANT HURRY	WSW	0.41	660.	4.4E-09	4.4E-09	4.4E-09	6.5E-10
A	FIRST PLANT HURRY	W	0.42	680.	4.0E-09	4.0E-09	4.0E-09	6.1E-10
A	FIRST PLANT HURRY	WNW	0.42	680.	3.4E-09	3.4E-09	3.4E-09	5.5E-10
A	FIRST PLANT HURRY	W	0.30	480.	2.1E-09	2.1E-09	2.1E-09	7.1E-10
A	FIRST PLANT HURRY	WNW	0.26	420.	5.9E-10	5.9E-10	5.9E-10	4.6E-10
A	FIRST PLANT HURRY	N	0.25	410.	2.5E-09	2.5E-09	2.5E-09	8.3E-10
A	FIRST PLANT HURRY	ENE	0.34	630.	3.5E-09	3.5E-09	3.5E-09	8.9E-10
A	FIRST PLANT HURRY	NE	0.21	330.	3.8E-10	3.8E-10	3.8E-10	1.1E-09
A	FIRST PLANT HURRY	ENE	0.24	390.	1.5E-09	1.5E-09	1.5E-09	1.2E-09
A	FIRST PLANT HURRY	E	0.34	550.	2.2E-09	2.2E-09	2.2E-09	1.5E-09
A	FIRST PLANT HURRY	ESE	0.42	670.	1.7E-09	1.7E-09	1.7E-09	1.2E-09
A	FIRST PLANT HURRY	SE	0.51	820.	3.2E-09	3.2E-09	3.2E-09	9.1E-10
A	FIRST PLANT HURRY	SSE	0.57	910.	5.0E-09	5.0E-09	4.9E-09	6.0E-10
A	FIRST RESIDENT	S	1.49	2400.	2.3E-08	2.3E-08	2.3E-08	6.8E-10
A	FIRST RESIDENT	SSW	0.93	1500.	4.9E-09	4.9E-09	4.8E-09	3.7E-10
A	FIRST RESIDENT	SW	1.09	2000.	1.1E-08	1.1E-08	1.1E-08	2.6E-10
A	FIRST RESIDENT	WSW	1.55	2500.	2.8E-08	2.7E-08	2.7E-08	3.0E-10
A	FIRST RESIDENT	W	2.24	3600.	1.6E-08	1.6E-08	1.6E-08	2.0E-10
A	FIRST RESIDENT	WNW	2.24	3600.	1.7E-08	1.7E-08	1.7E-08	2.2E-10
A	FIRST RESIDENT	W	0.87	1400.	6.4E-09	6.4E-09	6.2E-09	5.6E-10
A	FIRST RESIDENT	WNW	0.41	1500.	5.6E-09	5.6E-09	5.5E-09	4.1E-10
A	FIRST RESIDENT	W	1.43	2320.	1.4E-08	1.4E-08	1.4E-08	4.5E-10
A	FIRST RESIDENT	WNE	1.55	2500.	3.3E-08	3.3E-08	3.3E-08	6.6E-10
A	FIRST RESIDENT	NE	0.49	790.	6.2E-09	6.2E-09	6.1E-09	1.5E-09
A	FIRST RESIDENT	ENE	0.99	1600.	1.6E-08	1.6E-08	1.6E-08	1.0E-09
A	FIRST RESIDENT	E	1.10	1900.	2.3E-08	2.3E-08	2.3E-08	1.0E-09
A	FIRST RESIDENT	ESE	1.06	1700.	1.2E-08	1.2E-08	1.2E-08	1.3E-09
A	FIRST RESIDENT	SE	1.24	2000.	1.4E-08	1.4E-08	1.3E-08	8.9E-10
A	FIRST RESIDENT	SSE	0.99	1600.	1.0E-08	1.0E-08	9.7E-09	8.2E-10
A	FIRST VEG GRON	S	2.11	3400.	4.0E-08	4.0E-08	3.9E-08	5.3E-10
A	FIRST VEG GRON	SSW	1.62	2600.	1.2E-08	1.2E-08	1.1E-08	2.2E-10
A	FIRST VEG GRON	SW	1.49	2400.	1.1E-08	1.1E-08	1.1E-08	2.6E-10
A	FIRST VEG GRON	WSW	1.55	2500.	2.8E-08	2.7E-08	2.7E-08	3.0E-10
A	FIRST VEG GRON	W	2.24	3600.	1.6E-08	1.6E-08	1.6E-08	2.0E-10
A	FIRST VEG GRON	WNW	2.24	3600.	1.7E-08	1.7E-08	1.7E-08	2.2E-10
A	FIRST VEG GRON	W	0.87	1400.	6.4E-09	6.4E-09	6.2E-09	5.6E-10
A	FIRST VEG GRON	WNW	0.41	1500.	5.6E-09	5.6E-09	5.5E-09	4.1E-10
A	FIRST VEG GRON	W	1.43	2320.	1.4E-08	1.4E-08	1.4E-08	4.5E-10
A	FIRST VEG GRON	WNE	1.55	2500.	3.3E-08	3.3E-08	3.3E-08	6.6E-10
A	FIRST VEG GRON	NE	0.49	790.	6.2E-09	6.2E-09	6.1E-09	1.5E-09
A	FIRST VEG GRON	ENE	0.99	1600.	1.6E-08	1.6E-08	1.6E-08	1.0E-09
A	FIRST VEG GRON	E	1.10	1900.	2.3E-08	2.3E-08	2.3E-08	1.0E-09
A	FIRST VEG GRON	ESE	1.06	1700.	1.2E-08	1.2E-08	1.2E-08	1.3E-09
A	FIRST VEG GRON	SE	1.24	2000.	1.4E-08	1.4E-08	1.3E-08	8.9E-10
A	FIRST VEG GRON	SSE	0.99	1600.	1.0E-08	1.0E-08	9.7E-09	8.2E-10
A	FIRST VEG GRON	S	2.11	3400.	4.0E-08	4.0E-08	3.9E-08	5.3E-10
A	FIRST VEG GRON	SSW	1.62	2600.	1.2E-08	1.2E-08	1.1E-08	2.2E-10
A	FIRST VEG GRON	SW	1.49	2400.	1.1E-08	1.1E-08	1.1E-08	2.6E-10
A	FIRST VEG GRON	WSW	1.55	2500.	2.8E-08	2.7E-08	2.7E-08	3.0E-10
A	FIRST VEG GRON	W	2.24	3600.	1.6E-08	1.6E-08	1.6E-08	2.0E-10
A	FIRST VEG GRON	WNW	2.24	3600.	1.7E-08	1.7E-08	1.7E-08	2.2E-10
A	FIRST VEG GRON	W	0.87	1400.	6.4E-09	6.4E-09	6.2E-09	5.6E-10
A	FIRST VEG GRON	WNW	0.41	1500.	5.6E-09	5.6E-09	5.5E-09	4.1E-10
A	FIRST VEG GRON	W	1.43	2320.	1.4E-08	1.4E-08	1.4E-08	4.5E-10
A	FIRST VEG GRON	WNE	1.55	2500.	3.3E-08	3.3E-08	3.3E-08	6.6E-10
A	FIRST VEG GRON	NE	0.49	790.	6.2E-09	6.2E-09	6.1E-09	1.5E-09
A	FIRST VEG GRON	ENE	0.99	1600.	1.6E-08	1.6E-08	1.6E-08	1.0E-09
A	FIRST VEG GRON	E	1.10	1900.	2.3E-08	2.3E-08	2.3E-08	1.0E-09
A	FIRST VEG GRON	ESE	1.06	1700.	1.2E-08	1.2E-08	1.2E-08	1.3E-09
A	FIRST VEG GRON	SE	1.24	2000.	1.4E-08	1.4E-08	1.3E-08	8.9E-10
A	FIRST VEG GRON	SSE	0.99	1600.	1.0E-08	1.0E-08	9.7E-09	8.2E-10
A	FIRST VEG GRON	S	2.11	3400.	4.0E-08	4.0E-08	3.9E-08	5.3E-10
A	FIRST VEG GRON	SSW	1.62	2600.	1.2E-08	1.2E-08	1.1E-08	2.2E-10
A	FIRST VEG GRON	SW	1.49	2400.	1.1E-08	1.1E-08	1.1E-08	2.6E-10
A	FIRST VEG GRON	WSW	1.55	2500.	2.8E-08	2.7E-08	2.7E-08	3.0E-10
A	FIRST VEG GRON	W	2.24	3600.	1.6E-08	1.6E-08	1.6E-08	2.0E-10
A	FIRST VEG GRON	WNW	2.24	3600.	1.7E-08	1.7E-08	1.7E-08	2.2E-10
A	FIRST VEG GRON	W	0.87	1400.	6.4E-09	6.4E-09	6.2E-09	5.6E-10
A	FIRST VEG GRON	WNW	0.41	1500.	5.6E-09	5.6E-09	5.5E-09	4.1E-10
A	FIRST VEG GRON	W	1.43	2320.	1.4E-08	1.4E-08	1.4E-08	4.5E-10
A	FIRST VEG GRON	WNE	1.55	2500.	3.3E-08	3.3E-08	3.3E-08	6.6E-10
A	FIRST VEG GRON	NE	0.49	790.	6.2E-09	6.2E-09	6.1E-09	1.5E-09
A	FIRST VEG GRON	ENE	0.99	1600.	1.6E-08	1.6E-08	1.6E-08	1.0E-09
A	FIRST VEG GRON	E	1.10	1900.	2.3E-08	2.3E-08	2.3E-08	1.0E-09
A	FIRST VEG GRON	ESE	1.06	1700.	1.2E-08	1.2E-08	1.2E-08	1.3E-09
A	FIRST VEG GRON	SE	1.24	2000.	1.4E-08	1.4E-08	1.3E-08	8.9E-10
A	FIRST VEG GRON	SSE	0.99	1600.	1.0E-08	1.0E-08	9.7E-09	8.2E-10
A	FIRST VEG GRON	S	2.11	3400.	4.0E-08	4.0E-08	3.9E-08	5.3E-10
A	FIRST VEG GRON	SSW	1.62	2600.	1.2E-08	1.2E-08	1.1E-08	2.2E-10
A	FIRST VEG GRON	SW	1.49	2400.	1.1E-08	1.1E-08	1.1E-08	2.6E-10
A	FIRST VEG GRON	WSW	1.55	2500.	2.8E-08	2.7E-08	2.7E-08	3.0E-10
A	FIRST VEG GRON	W	2.24	3600.	1.6E-08	1.6E-08	1.6E-08	2.0E-10
A	FIRST VEG GRON	WNW	2.24	3600.	1.7E-08	1.7E-08	1.7E-08	2.2E-10
A	FIRST VEG GRON	W	0.87	1400.	6.4E-09	6.4E-09	6.2E-09	5.6E-10
A	FIRST VEG GRON	WNW	0.41	1500.	5.6E-09	5.6E-09	5.5E-09	4.1E-10
A	FIRST VEG GRON	W	1.43	2320.	1.4E-08	1.4E-08	1.4E-08	4.5E-10
A	FIRST VEG GRON	WNE	1.55	2500.	3.3E-08	3.3E-08	3.3E-08	6.6E-10
A	FIRST VEG GRON	NE	0.49	790.	6.2E-09	6.2E-09	6.1E-09	1.5E-09
A	FIRST VEG GRON	ENE	0.99	1600.	1.6E-08	1.6E-08	1.6E-08	1.0E-09
A	FIRST VEG GRON	E	1.10	1900.	2.3E-08	2.3E-08	2.3E-08	1.0E-09
A	FIRST VEG GRON	ESE	1.06	1700.	1.2E-08	1.2E-08	1.2E-08	1.3E-09
A	FIRST VEG GRON	SE	1.24	2000.	1.4E-08	1.4E-08	1.3E-08	8.9E-10
A	FIRST VEG GRON	SSE	0.99	1600.	1.0E-08	1.0E-08	9.7E-09	8.2E-10
A	FIRST VEG GRON	S	2.11	3400.	4.0E-08	4.0E-08	3.9E-08	5.3E-10
A	FIRST VEG GRON	SSW	1.62	2600.	1.2E-08	1.2E-08	1.1E-08	2.2E-10
A	FIRST VEG GRON	SW	1.49	2400.	1.1E-08	1.1E-08	1.1E-08	2.6E-10
A	FIRST VEG GRON	WSW	1.55	2500.	2.8E-08	2.7E-08	2.7E-08	3.0E-10
A	FIRST VEG GRON	W	2.24	3600.	1.6E-08	1.6E-08	1.6E-08	2.0E-10
A	FIRST VEG GRON	WNW	2.24	3600.	1.7E-08	1.7E-08	1.7E-08	2.2E-10
A	FIRST VEG GRON	W	0.87	1400.	6.4E-09	6.4E-09	6.2E-09	5.6E-10
A	FIRST VEG GRON	WNW	0.41	1500.	5.6E-09	5.6E-09	5.5E-09	4.1E-10
A	FIRST VEG GRON	W	1.43	2320.	1.4E-08	1.4E-08	1.4E-08	4.5E-10
A	FIRST VEG GRON	WNE	1.55	2500.	3.3E-08	3.3E-08	3.3E-08	6.6E-10
A	FIRST VEG GRON	NE	0.49	790.	6.2E-09	6.2E-09	6.1E-09	1.5E-09
A	FIRST VEG GRON	ENE	0.99	1600.	1.6E-08	1.6E-08	1.6E-08	1.0E-09
A	FIRST VEG GRON	E	1.10	1900.	2.3E-08	2.3E-08	2.3E-08	1.0E-09
A	FIRST VEG GRON	ESE	1.06	1700.	1.2E-08	1.2E-08	1.2E-08	1.3E-09
A	FIRST VEG GRON	SE	1.24	2000.	1.4E-08	1.4E-08	1.3E-08	8.9E-10
A	FIRST VEG GRON	SSE	0.99	1600.	1.0E-08	1.0E-08	9.7E-09	8.2E-10
A	FIRST VEG GRON	S	2.11	3400.	4.0E-08	4.0E-08	3.9E-08	5.3E-10
A	FIRST VEG GRON	SSW	1.62	2600.	1.2E-08	1.2E-08	1.1E-08	2.2E-10
A	FIRST VEG GRON	SW	1.49	2400.	1.1E-08	1.1E-08	1.1E-08	2.6E-10
A	FIRST VEG GRON	WSW	1.55	2500.	2.8E-08	2.7E-08	2.7E-08	3.0E-10
A	FIRST VEG GRON	W	2.24	3600.	1.6E-08	1.6E-08	1.6E-08	2.0E-10
A	FIRST VEG GRON	WNW	2.24	3600.	1.7E-08	1.7E-08	1.7E-08	2.2E-10
A	FIRST VEG GRON	W	0.87	1400.	6.4E-09	6.4E-09	6.2E-09	5.6E-10
A	FIRST VEG GRON	WNW	0.41	1500.	5.6E-09	5.6E-09	5.5E-09	4.1E-10
A	FIRST VEG GRON	W	1.43	2320.	1.4E-08	1.4E-08	1.4E-08	4.5E-10
A	FIRST VEG GRON	WNE	1.55	2500.	3.3E-08	3.3E-08	3.3E-08	6.6E-10
A	FIRST VEG GRON	NE	0.49	790.	6.2E-09	6.2E-09	6.1E-09	1.5E-09
A	FIRST VEG GRON	ENE	0.99	1600.	1.6E-08	1.6E-08	1.6E-08	1.0E-09
A	FIRST VEG GRON	E	1.10	1900.	2.3E-08	2.3E-08	2.3E-08	1.0E-09
A	FIRST VEG GRON	ESE	1.06	1700.	1.2E-08	1.2E-08	1.2E-08	1.3E-09
A	FIRST VEG GRON	SE	1.24	2000.	1.4E-08	1.4E-08	1.3E-08	8.9E-10
A	FIRST VEG GRON	SSE	0.99	1600.	1.0E-08	1.0E-08	9.7E-09	8.2E-10
A	FIRST VEG GRON	S	2.11	3400.	4.0E-08	4.0E-08	3.9E-08	5.3E-10
A	FIRST VEG GRON	SSW	1.62	2600.	1.2E-08	1.2E-08	1.1E-08	2.2E-10
A	FIRST VEG GRON	SW	1.49	2400.	1.1E-08	1.1E-08	1.1E-08	2.

VEHICLE BUILDING PARAMETERS		
RELEASE HEIGHT	(FEET)	152.4
ORBITER	(DEGREES)	0.25
EXIT VELOCITY	(FEET/SEC)	150.76
WEP. WIND HEIGHT	(FEET)	152.4
AUTOCOR. HEIGHT	(FEET)	0.0
RELATION. COS. SEC. AREA	(SQ. FEET/SEC)	0.0
HEAT EMISSION RATE	(CAL/SEC)	0.0

1000

5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	3.00	5.00	17.00	26.00	118.00	372.00	423.00	65.00	16.00	3.00	1.00	0.00	0.00	0.00	1.00	3.00
6	2.00	17.00	26.00	52.00	153.00	557.00	825.00	186.00	19.00	5.00	4.00	1.00	1.00	2.00	4.00	6.00
6	3.00	4.00	26.00	64.00	115.00	224.00	586.00	329.00	59.00	14.00	4.00	3.00	1.00	0.00	2.00	1.00
5	1.00	14.00	17.00	39.00	34.00	29.00	76.00	207.00	117.00	15.00	4.00	1.00	0.00	0.00	2.00	0.00
6	0.00	6.00	1.00	9.00	0.00	1.00	0.00	12.00	76.00	17.00	2.00	3.00	1.00	2.00	0.00	0.00
6	0.00	1.00	0.00	0.00	0.00	0.00	0.00	2.00	24.00	8.00	1.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	-1.	0.250	0.500	0.750	1.000	1.500	2.000	3.000	5.000	10.000	12.000	0.000	0.000	0.000	0.000	0.000
8	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.	1609.
7	1.300	1.300	1.100	1.500	2.000	2.300	2.200	1.600	1.300	1.400	1.200	1.300	1.400	1.200	1.200	1.300
8	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.	3218.
9	1.100	1.100	1.300	1.500	2.000	2.200	2.200	1.600	1.300	1.200	1.400	1.500	1.200	1.200	1.300	1.300
8	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.	4827.
0	1.100	1.100	1.100	1.500	1.000	2.100	2.100	1.500	1.200	1.200	1.400	1.600	1.200	1.200	1.300	1.100
6	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.	6436.
9	1.000	1.100	1.100	1.400	1.400	2.100	2.100	1.400	1.100	1.200	1.200	1.600	1.100	1.100	1.100	1.000
8	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.	8045.
7	1.000	1.000	1.000	1.300	1.400	1.700	1.700	1.300	1.000	1.200	1.100	1.300	1.100	1.000	1.100	1.000
8	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.	9654.
9	1.000	1.000	1.000	1.000	1.400	1.500	1.600	1.200	1.000	1.100	1.000	1.100	1.000	1.000	1.000	1.000
8	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.	11263.
9	1.000	1.000	1.000	1.000	1.200	1.400	1.400	1.100	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.	12872.
2	1.000	1.000	1.000	1.000	1.000	1.200	1.200	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
8	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.	14481.
9	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10	2011.	2011.	1850.	998.	1046.	2011.	809.	1529.	2092.	1126.	2092.	1769.	1963.	1850.	2172.	1609.
11	19.	21.	13.	21.	6.	12.	6.	9.	20.	21.	31.	20.	22.	19.	19.	18.
10	4225.	4183.	3500.	2172.	2092.	4103.	2172.	2574.	4022.	4988.	4666.	2735.	3781.	3990.	4988.	2333.
11	50.	40.	30.	41.	18.	33.	21.	27.	64.	76.	67.	35.	57.	44.	39.	37.
10	6436.	6754.	5020.	3057.	4022.	6114.	3862.	4103.	6034.	9332.	7401.	4505.	5792.	5712.	8367.	4344.
11	73.	61.	46.	61.	30.	46.	32.	11.	73.	136.	107.	52.	76.	75.	68.	69.
10	9252.	9332.	7723.	4183.	6034.	9171.	5109.	5712.	8369.	13355.	9654.	6114.	7884.	7562.	14320.	7884.
11	91.	91.	76.	98.	41.	61.	41.	56.	120.	171.	131.	72.	108.	106.	84.	104.
10	11207.	11423.	9042.	5070.	8367.	10458.	6436.	7884.	9960.	35237.	22526.	8045.	9413.	9493.	16734.	9895.
11	119.	114.	95.	110.	61.	81.	58.	79.	143.	180.	140.	85.	132.	120.	112.	138.
10	13837.	13757.	10137.	6275.	10137.	12711.	8850.	9574.	19791.	51488.	27514.	13194.	10024.	10056.	19147.	24135.
11	143.	146.	107.	128.	79.	97.	79.	101.	152.	180.	155.	116.	144.	141.	144.	141.
10	35189.	43234.	12067.	8045.	12872.	14642.	14160.	11585.	35881.	59211.	41673.	16412.	35559.	27836.	34858.	27675.
11	150.	149.	122.	152.	79.	133.	101.	119.	155.	183.	171.	152.	158.	156.	159.	166.
10	51279.	52453.	13194.	9654.	10602.	16814.	18986.	13435.	60016.	70474.	43443.	18101.	67578.	35076.	62429.	40225.
11	193.	152.	149.	175.	134.	161.	125.	148.	155.	198.	198.	174.	172.	156.	178.	190.
10	85108.	56154.	27514.	35237.	17377.	18101.	24135.	33950.	72083.	73049.	56154.	19952.	71600.	52132.	64682.	43242.
11	210.	161.	154.	184.	165.	190.	149.	151.	161.	219.	213.	192.	156.	189.	210.	210.
10	50533.	50533.	42948.	51464.	18948.	19147.	27836.	35398.	75945.	75623.	66934.	60338.	74979.	75462.	67176.	59372.
11	267.	171.	161.	149.	204.	216.	155.	155.	180.	256.	247.	215.	213.	165.	210.	243.
12	18.	16.	16.	15.	0.	13.										

BEST WEST BERRY

14	1	790.0	2	1000.0	3	1300.0	4	460.0	5	540.0	6	600.0	7	470.0	8	460.0
	9	750.0	10	620.0	11	340.0	12	340.0	13	450.0	14	510.0	15	600.0	16	460.0

BEST WEST-EST

14	1	2100.0	2	1100.0	3	2100.0	4	2200.0	5	3500.0	6	3500.0	7	1300.0	8	1000.0
	9	2000.0	10	2500.0	11	610.0	12	610.0	13	660.0	14	1500.0	15	1700.0	16	1300.0

BEST VEG GROW

14	1	3000.0	2	2200.0	3	2100.0	4	2200.0	5	3500.0	6	3500.0	7	1400.0	8	1400.0
	9	2500.0	10	2600.0	11	620.0	12	1600.0	13	1900.0	14	1600.0	15	1700.0	16	1600.0

[illegible]

HEAVEN VALLEY, PA 1977 TOWN 19M1 1 JFD LIFE CALME.25M/S H1010.7M UELIA T01-L

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS A

UMAX (M/S)	N	UNE	NE	ENE	E	ESE	SE	SSE	SW	MSW	W	WNW	NW	NNW	TOTAL
0.25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	1.39	0.00	0.50	0.44	0.45	0.30	0.52	0.54	1.91	2.21	1.99	1.25	0.96	1.12	15.48

JOINT FREQUENCY DISTRIBUTION (OF WIND SPEED AND DIRECTION)

ATMOSPHERIC STABILITY CLASS B

Umax (m/s)	N	UNE	NE	ENE	E	ESE	SE	SSE	S	SSH	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012
0.75	0.000	0.005	0.005	0.005	0.002	0.000	0.005	0.007	0.000	0.005	0.005	0.002	0.000	0.002	0.000	0.002	0.037
1.00	0.007	0.005	0.015	0.002	0.010	0.005	0.005	0.007	0.003	0.003	0.003	0.005	0.000	0.010	0.007	0.012	0.099
1.50	0.037	0.032	0.037	0.017	0.050	0.010	0.010	0.027	0.022	0.032	0.032	0.012	0.017	0.025	0.022	0.022	0.357
2.00	0.050	0.037	0.017	0.015	0.010	0.010	0.010	0.040	0.022	0.030	0.030	0.055	0.055	0.025	0.035	0.055	0.403
3.00	0.035	0.005	0.002	0.002	0.010	0.002	0.002	0.009	0.012	0.119	0.119	0.203	0.059	0.069	0.077	0.050	0.771
5.00	0.010	0.000	0.000	0.000	0.002	0.000	0.002	0.005	0.005	0.161	0.161	0.181	0.178	0.082	0.045	0.020	0.729
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.032	0.032	0.035	0.027	0.002	0.002	0.000	0.100
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.14	0.09	0.07	0.04	0.00	0.02	0.03	0.07	0.07	0.38	0.38	0.49	0.34	0.24	0.19	0.16	2.59

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS C

UMAX (M/S)	N	NINE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0-25	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0-50	0.000	0.000	0.007	0.002	0.007	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.020
0-75	0.005	0.010	0.007	0.012	0.007	0.000	0.005	0.005	0.002	0.000	0.005	0.000	0.002	0.000	0.005	0.002	0.060
1-00	0.020	0.030	0.020	0.030	0.020	0.007	0.005	0.005	0.002	0.000	0.000	0.007	0.007	0.007	0.005	0.007	0.150
1-50	0.050	0.037	0.025	0.037	0.025	0.010	0.012	0.010	0.020	0.015	0.022	0.040	0.030	0.040	0.037	0.032	0.450
2-00	0.032	0.017	0.027	0.017	0.027	0.010	0.010	0.010	0.035	0.027	0.062	0.077	0.067	0.027	0.052	0.055	0.635
3-00	0.027	0.017	0.020	0.017	0.020	0.007	0.010	0.007	0.017	0.000	0.131	0.161	0.136	0.102	0.099	0.082	0.960
5-00	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.007	0.000	0.171	0.211	0.188	0.079	0.060	0.027	0.603
10-00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.035	0.040	0.030	0.007	0.000	0.000	0.110
12-00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.20	0.10	0.11	0.12	0.11	0.03	0.03	0.08	0.09	0.19	0.43	0.50	0.46	0.26	0.27	0.21	3.22

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS 0

UMAX (M/S)	N	NME	ME	ESE	SE	SSE	SW	WSW	W	NNW	NW	NNW	TOTAL
0.25	0.005	0.000	0.010	0.013	0.013	0.009	0.003	0.003	0.003	0.001	0.003	0.004	0.124
0.50	0.027	0.047	0.109	0.077	0.074	0.052	0.020	0.015	0.017	0.002	0.015	0.022	0.734
0.75	0.008	0.124	0.156	0.097	0.089	0.059	0.027	0.042	0.032	0.032	0.030	0.082	1.504
1.00	0.206	0.273	0.264	0.114	0.112	0.126	0.114	0.121	0.121	0.124	0.124	0.169	3.133
1.50	0.617	0.509	0.223	0.277	0.092	0.330	0.244	0.285	0.304	0.264	0.409	0.081	5.052
2.00	0.906	0.340	0.106	0.050	0.007	0.070	0.501	0.553	0.476	0.100	0.760	0.530	5.793

3.00	0.429	0.009	0.107	0.194	0.136	0.055	0.037	0.007	0.176	1.001	1.594	1.817	1.415	1.019	1.234	0.421	9.736
5.00	0.052	0.015	0.035	0.017	0.017	0.000	0.010	0.000	0.037	0.553	1.775	2.704	2.070	0.654	0.491	0.089	0.519
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.231	0.615	0.270	0.072	0.007	0.000	1.229
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002
TOTAL	1.94	1.58	1.97	1.96	1.04	0.08	0.07	0.43	1.01	2.47	4.51	6.15	4.79	3.08	3.12	1.76	36.63

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS E

Umax (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.006	0.009	0.023	0.036	0.060	0.057	0.037	0.021	0.008	0.006	0.002	0.002	0.003	0.002	0.003	0.003	0.200
0.50	0.037	0.057	0.149	0.233	0.302	0.367	0.238	0.134	0.052	0.040	0.010	0.012	0.020	0.015	0.022	0.022	1.790
0.75	0.074	0.104	0.273	0.342	0.506	0.374	0.394	0.243	0.169	0.047	0.017	0.020	0.035	0.032	0.032	0.050	2.741
1.00	0.126	0.200	0.444	0.426	0.377	0.258	0.231	0.352	0.394	0.188	0.077	0.040	0.092	0.074	0.072	0.097	3.460
1.50	0.176	0.280	0.466	0.416	0.101	0.074	0.072	0.223	0.578	0.436	0.226	0.049	0.114	0.104	0.139	0.161	3.735
2.00	0.092	0.124	0.151	0.235	0.009	0.035	0.035	0.035	0.332	0.464	0.263	0.112	0.069	0.077	0.069	0.087	2.260
3.00	0.030	0.007	0.020	0.009	0.042	0.010	0.007	0.015	0.119	0.523	0.434	0.211	0.064	0.050	0.045	0.022	1.700
5.00	0.002	0.000	0.002	0.005	0.002	0.002	0.000	0.000	0.027	0.141	0.337	0.221	0.067	0.025	0.015	0.007	0.655
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.50	0.79	1.53	1.78	1.62	1.18	1.01	1.02	1.68	1.85	1.43	0.74	0.47	0.39	0.40	0.45	16.90

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS F

Umax (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.002	0.005	0.008	0.019	0.009	0.131	0.004	0.024	0.006	0.003	0.001	0.001	0.000	0.000	0.000	0.001	0.359
0.50	0.020	0.037	0.062	0.156	0.553	1.048	0.711	0.196	0.050	0.022	0.010	0.005	0.002	0.000	0.000	0.000	2.800
0.75	0.027	0.050	0.077	0.243	0.505	0.964	1.264	0.397	0.092	0.037	0.022	0.012	0.010	0.005	0.012	0.027	3.827
1.00	0.027	0.045	0.092	0.231	0.374	0.394	0.558	0.600	0.201	0.072	0.025	0.012	0.007	0.005	0.010	0.042	2.694
1.50	0.027	0.054	0.089	0.171	0.067	0.045	0.084	0.250	0.488	0.191	0.047	0.022	0.015	0.002	0.002	0.005	1.566
2.00	0.015	0.022	0.015	0.010	0.007	0.005	0.005	0.015	0.312	0.156	0.045	0.010	0.005	0.005	0.000	0.000	0.627
3.00	0.005	0.002	0.000	0.000	0.000	0.000	0.002	0.002	0.062	0.094	0.047	0.012	0.000	0.000	0.007	0.000	0.235
5.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.020	0.005	0.002	0.002	0.000	0.000	0.042
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.010
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.12	0.22	0.34	0.83	1.66	2.59	2.72	1.48	1.21	0.59	0.22	0.09	0.04	0.02	0.03	0.08	12.24

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION

ATMOSPHERIC STABILITY CLASS G

Umax (M/S)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.25	0.001	0.001	0.004	0.006	0.029	0.094	0.104	0.016	0.004	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.265
0.50	0.007	0.012	0.042	0.064	0.242	0.972	1.046	0.161	0.040	0.007	0.002	0.000	0.005	0.002	0.007	0.015	2.677
0.75	0.005	0.002	0.064	0.124	0.379	1.381	2.045	0.461	0.047	0.012	0.010	0.002	0.005	0.010	0.002	0.010	4.605
1.00	0.007	0.010	0.064	0.169	0.205	0.565	1.457	0.015	0.146	0.035	0.010	0.007	0.002	0.000	0.005	0.000	3.502
1.50	0.002	0.005	0.042	0.097	0.044	0.072	0.188	0.513	0.290	0.037	0.010	0.002	0.000	0.000	0.005	0.000	1.300
2.00	0.000	0.015	0.002	0.022	0.000	0.002	0.000	0.030	0.188	0.042	0.005	0.007	0.002	0.005	0.000	0.000	0.322
3.00	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.005	0.059	0.020	0.002	0.000	0.000	0.000	0.000	0.000	0.089
5.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.02	0.12	0.22	0.49	1.08	3.09	4.84	2.00	0.77	0.15	0.04	0.02	0.02	0.02	0.02	0.03	12.93

TOTAL HOURS CONSIDERED ARE 00345

WIND MEASURED AT 10.7 METERS.

OVERALL WIND DIRECTION FREQUENCY

WIND DIRECTION	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
FREQUENCY	4.4	3.3	4.7	5.7	6.1	7.7	9.4	5.3	5.5	6.5	8.9	10.2	8.1	5.3	5.0	3.8	100.0

OVERALL WIND SPEED FREQUENCY

BEAVER VALLEY, 34 1777 ELEV 1001 + 100 INCH (ALT=2500' HT=10.7M DELTA T=1-L

CONTAINMENT BUILDING: LEAKY DOME CONTINUOUS RELEASE

NO DECAY, UNSTABLE

CORRECTED USING SITE-SPECIFIC FACTORS

ANNUAL AVERAGE ONLY (CHECKED FOR CORRECTION)

DISTANCE IN MILES FROM THE SITE

SECTION	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.77E-07	1.05E-07	6.20E-08	1.01E-07	1.31E-07	1.34E-07	1.31E-07	1.21E-07	1.03E-07	8.73E-08	7.54E-08
SS	1.23E-07	5.16E-08	5.26E-08	6.26E-08	1.30E-07	1.36E-07	1.37E-07	1.32E-07	1.24E-07	1.15E-07	1.02E-07
S	6.23E-08	1.05E-08	5.06E-08	1.11E-07	2.33E-07	3.06E-07	2.77E-07	2.37E-07	2.30E-07	2.21E-07	1.94E-07
SS	1.10E-07	6.72E-08	2.23E-07	4.79E-07	9.34E-07	1.24E-06	1.07E-06	8.42E-07	6.55E-07	5.29E-07	4.32E-07
S	1.10E-07	6.17E-08	6.95E-08	1.70E-07	4.17E-07	5.59E-07	5.33E-07	4.85E-07	5.02E-07	5.20E-07	5.50E-07
SS	1.06E-07	4.90E-08	4.70E-08	1.09E-07	3.27E-07	6.33E-07	9.77E-07	1.18E-06	1.35E-06	1.46E-06	1.33E-06
S	1.10E-07	1.61E-08	5.24E-08	1.37E-07	4.83E-07	8.05E-07	1.10E-06	1.39E-06	1.91E-06	2.45E-06	2.25E-06
SS	1.10E-08	3.14E-08	2.98E-08	7.02E-08	2.35E-07	4.85E-07	6.23E-07	7.14E-07	7.44E-07	7.43E-07	6.79E-07
S	1.10E-07	5.53E-08	7.15E-08	1.39E-07	3.13E-07	5.56E-07	6.35E-07	5.16E-07	4.04E-07	3.23E-07	2.61E-07
NNE	1.40E-05	4.72E-06	2.56E-06	1.66E-06	8.42E-07	5.20E-07	3.77E-07	2.98E-07	2.33E-07	1.92E-07	1.63E-07
NE	9.79E-06	3.35E-06	1.79E-06	1.15E-06	6.83E-07	4.72E-07	3.38E-07	2.57E-07	1.88E-07	1.44E-07	1.16E-07
E	1.12E-07	2.56E-07	3.04E-07	3.55E-07	3.58E-07	3.17E-07	2.65E-07	2.25E-07	1.88E-07	1.57E-07	1.19E-07
S	9.17E-07	2.20E-07	2.07E-07	2.76E-07	2.65E-07	2.27E-07	1.90E-07	1.53E-07	1.20E-07	9.65E-08	8.19E-08
ESE	6.32E-06	2.19E-06	1.15E-06	7.38E-07	3.94E-07	2.53E-07	1.88E-07	1.36E-07	1.03E-07	8.11E-08	6.46E-08
SE	6.70E-06	2.36E-06	1.25E-06	7.97E-07	4.43E-07	2.98E-07	2.12E-07	1.61E-07	1.16E-07	8.84E-08	7.41E-08
SS	2.25E-07	9.31E-08	8.10E-08	1.04E-07	1.83E-07	1.83E-07	1.53E-07	1.20E-07	9.49E-08	7.63E-08	6.51E-08

GROUND LEVEL

GROUND LEVEL

ANNUAL AVERAGE ONLY (CHECKED FOR CORRECTION)

DISTANCE IN MILES FROM THE SITE

SECTION	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.59E-09	3.02E-09	2.55E-09	1.43E-09	9.63E-09	7.07E-09	5.51E-09	4.46E-09	3.72E-09	3.17E-09	2.75E-09
SS	2.42E-09	5.32E-09	3.58E-09	2.05E-09	1.38E-09	1.02E-09	8.00E-09	6.51E-09	5.45E-09	4.66E-09	4.05E-09
S	1.68E-07	1.00E-07	6.74E-08	3.92E-08	2.63E-08	1.95E-08	1.52E-08	1.24E-08	1.04E-08	8.91E-09	7.75E-09
SS	3.61E-07	1.58E-07	1.07E-07	6.18E-08	4.20E-08	3.13E-08	2.46E-08	2.01E-08	1.69E-08	1.45E-08	1.26E-08
S	5.09E-07	3.30E-07	2.08E-07	1.22E-07	8.40E-08	6.30E-08	4.99E-08	4.10E-08	3.46E-08	2.98E-08	2.61E-08
SS	1.27E-06	7.96E-07	4.24E-07	2.51E-07	1.74E-07	1.31E-07	1.04E-07	8.65E-08	7.33E-08	6.34E-08	5.57E-08
S	1.07E-06	9.42E-07	5.03E-07	2.99E-07	2.08E-07	1.57E-07	1.25E-07	1.03E-07	8.81E-08	7.62E-08	6.70E-08
SS	5.17E-07	2.72E-07	1.82E-07	1.01E-07	7.48E-08	5.64E-08	4.44E-08	3.70E-08	3.13E-08	2.70E-08	2.37E-08
S	2.16E-07	1.24E-07	8.46E-08	4.93E-08	3.34E-08	2.52E-08	1.99E-08	1.63E-08	1.38E-08	1.18E-08	1.04E-08
NNE	1.40E-07	6.65E-08	4.46E-08	2.56E-08	1.73E-08	1.28E-08	1.00E-08	8.19E-09	6.86E-09	5.86E-09	5.10E-09
NE	9.53E-08	4.81E-08	3.18E-08	1.79E-08	1.19E-08	8.76E-09	6.81E-09	5.50E-09	4.58E-09	3.90E-09	3.38E-09
E	2.23E-09	3.05E-09	2.60E-09	1.44E-09	9.52E-09	6.92E-09	5.34E-09	4.29E-09	3.56E-09	3.02E-09	2.60E-09
S	1.11E-09	3.53E-09	2.31E-09	1.24E-09	8.48E-09	6.18E-09	4.79E-09	3.84E-09	3.19E-09	2.71E-09	2.34E-09
ESE	5.27E-08	2.89E-08	1.89E-08	1.05E-08	6.95E-09	5.06E-09	3.91E-09	3.18E-09	2.61E-09	2.21E-09	1.91E-09
SE	6.33E-08	3.15E-08	2.07E-08	1.14E-08	7.60E-09	5.54E-09	4.26E-09	3.47E-09	2.85E-09	2.42E-09	2.09E-09
SS	5.83E-09	3.18E-09	2.11E-09	1.19E-09	8.02E-09	5.90E-09	4.60E-09	3.73E-09	3.11E-09	2.65E-09	2.30E-09

GROUND LEVEL

GROUND LEVEL

WIND AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 16.00
 BUILDING HEIGHT (METERS) 1.10
 EXIT VELOCITY (M/SEC) 51.00

REF. WIND HEIGHT (METERS) 10.7
 BUILDING HEIGHT (METERS) 46.0
 BLDG. MIN. CHS. SEC. AREA (SQ. METERS) 1600.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT

WIND RELEASE MODE 100% WIND (M/SEC)

ELEVATED LESS THAN 6.200
 MIXED BETWEEN 6.200 AND 31.000
 GROUND LEVEL ABOVE 31.000

AT THE MEASURED WIND HEIGHT (10.7 METERS)

WIND RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 6.200
 MIXED BETWEEN 6.200 AND 31.000
 GROUND LEVEL ABOVE 31.000

WIND SPEED (METERS/SEC)
 UNSTABLE/NEUTRAL CONDITIONS
 LESS THAN 6.200
 BETWEEN 6.200 AND 31.000
 ABOVE 31.000

RECEIVED: 1977 FISCAL YEAR 1 JUN 1988 CAL 10,200/5 HT=10.7 DELTA T=T-L

CONTAINS 11 TABLES OF DATA FOR THE 1977-1978 FISCAL YEAR
NO DELETES, NO CHANGES

CHINA, 1977-1978 FISCAL YEAR FOR EACH SEGMENT

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.754E-08	1.207E-07	1.209E-07	1.025E-07	7.540E-08	3.873E-08	1.475E-08	7.132E-09	4.482E-09	3.181E-09
SSW	6.869E-08	1.241E-07	1.355E-07	1.237E-07	1.013E-07	5.345E-08	2.096E-08	1.030E-08	6.538E-09	4.674E-09
SW	7.691E-08	2.390E-07	2.642E-07	2.207E-07	1.928E-07	1.010E-07	3.977E-08	1.964E-08	1.248E-08	8.931E-09
WSW	5.027E-07	4.711E-07	5.029E-06	6.611E-07	4.351E-07	1.804E-07	6.308E-08	3.151E-08	2.019E-08	1.454E-08
W	1.125E-07	4.257E-07	5.212E-07	5.072E-07	5.535E-07	3.293E-07	1.244E-07	6.340E-08	4.111E-08	2.957E-08
WNW	7.523E-08	1.160E-07	9.680E-07	1.347E-06	1.324E-06	7.224E-07	2.560E-07	1.325E-07	8.677E-08	6.350E-08
W	9.307E-08	5.510E-07	1.143E-06	1.971E-06	2.207E-06	9.760E-07	3.043E-07	1.583E-07	1.041E-07	7.638E-08
WS	4.023E-08	3.260E-07	4.232E-07	7.356E-07	6.646E-07	3.050E-07	1.099E-07	5.672E-08	3.710E-08	2.712E-08
W	9.024E-08	3.430E-07	5.670E-07	4.056E-07	2.635E-07	1.273E-07	5.028E-08	2.544E-08	1.643E-08	1.191E-08
NNE	2.644E-06	8.822E-07	3.809E-07	2.343E-07	1.637E-07	7.329E-08	2.617E-08	1.293E-08	8.219E-09	5.880E-09
NE	1.857E-06	6.941E-07	3.419E-07	1.916E-07	1.168E-07	5.140E-08	1.836E-08	8.837E-09	5.538E-09	3.913E-09
E	3.075E-07	3.350E-07	2.633E-07	1.873E-07	1.209E-07	4.542E-08	1.482E-08	6.985E-09	4.316E-09	3.027E-09
E	2.504E-07	2.510E-07	1.658E-07	1.207E-07	8.200E-08	3.769E-08	1.318E-08	6.236E-09	3.865E-09	2.718E-09
ESE	1.201E-06	4.085E-07	1.826E-07	1.045E-07	6.515E-08	2.979E-08	1.081E-08	5.187E-09	3.161E-09	2.219E-09
SE	1.299E-06	4.603E-07	2.152E-07	1.188E-07	7.438E-08	3.380E-08	1.181E-08	5.589E-09	3.461E-09	2.431E-09
SSE	9.423E-08	1.661E-07	1.981E-07	9.502E-08	6.519E-08	3.253E-08	1.224E-08	5.947E-09	3.744E-09	2.662E-09

GROUND LEVEL

GROUND LEVEL

AVERAGE EFFECTIVE STACK HEIGHT IN METERS FOR EACH SEGMENT

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.453E+01	6.415E+01	6.096E+01	4.231E+01	2.925E+01	1.009E+01	3.653E+00	2.591E+00	1.397E+00	9.726E-01
SSW	1.006E+02	8.454E+01	7.518E+01	6.212E+01	4.706E+01	1.732E+01	8.800E+00	8.460E+00	6.639E+00	5.664E+00
SW	1.065E+02	9.281E+01	7.919E+01	6.587E+01	4.867E+01	2.169E+01	1.243E+01	1.122E+01	1.086E+01	1.086E+01
WSW	2.209E+01	5.481E+01	2.723E+01	1.591E+01	1.029E+01	6.506E+00	5.596E+00	5.224E+00	5.014E+00	4.993E+00
W	9.130E+01	2.007E+01	7.067E+01	6.140E+01	4.924E+01	1.904E+01	5.262E+00	4.514E+00	4.514E+00	4.514E+00
WNW	8.258E+01	7.234E+01	5.435E+01	4.740E+01	3.977E+01	1.238E+01	2.619E+00	2.215E+00	2.215E+00	2.215E+00
W	7.534E+01	6.374E+01	5.300E+01	3.799E+01	2.144E+01	7.687E+00	3.482E+00	2.974E+00	2.974E+00	2.974E+00
WS	7.930E+01	6.240E+01	4.630E+01	3.169E+01	1.627E+01	5.000E+00	2.891E+00	2.681E+00	2.622E+00	2.622E+00
W	7.851E+01	5.430E+01	2.812E+01	1.311E+01	8.361E+00	4.823E+00	3.922E+00	3.798E+00	3.743E+00	3.294E+00
NNE	6.330E+01	4.060E+01	2.327E+01	9.175E+00	4.312E+00	1.648E+00	1.095E+00	1.060E+00	1.012E+00	7.406E-01
NE	4.008E+01	2.543E+01	2.004E+01	8.739E+00	3.350E+00	1.654E+00	1.091E+00	6.933E-01	4.664E-01	3.966E-01
E	6.431E+01	5.133E+01	3.424E+01	1.788E+01	8.669E+00	2.660E+00	5.193E-01	3.552E-01	3.168E-01	3.101E-01
E	7.165E+01	5.148E+01	2.757E+01	1.335E+01	5.397E+00	1.678E+00	1.077E+00	8.948E-01	7.954E-01	5.942E-01
ESE	2.041E+01	6.400E+01	2.592E+01	2.144E+01	7.754E+00	2.223E+00	1.106E+00	9.785E-01	8.866E-01	7.221E-01
SE	2.531E+01	7.194E+01	6.343E+01	5.108E+01	3.789E+01	1.672E+01	2.729E+00	1.244E+00	1.051E+00	7.359E-01
SSE	8.230E+01	6.317E+01	3.763E+01	2.361E+01	1.402E+01	5.541E+00	3.185E+00	1.656E+00	1.175E+00	1.111E+00

FOR NNE, NE, ESE, SE
USE GROUND LEVEL

HEAVY VALLEY, 65 1977 1000 1000 1 100 100 1000 250/25 HI=10.70 DELTA T=1-L

CONCENTRATION RELEASE

2,200 GPM OF 100% 100% 100%

CORRECTED USING SITE-SPECIFIC FACTORS

ANNUAL AVERAGE CHIM (SECAETER CHIM)

DISTANCE IN MILES FROM THE SITE

SECTION	1.250	1.500	1.750	2.000	2.250	2.500	2.750	3.000	3.250	3.500	3.750	4.000	4.250	4.500
S	2.174E-07	1.456E-07	8.257E-08	1.040E-07	1.303E-07	1.326E-07	1.293E-07	1.189E-07	1.007E-07	8.452E-08	7.269E-08			
SS	1.229E-07	5.151E-08	5.243E-08	9.877E-08	1.294E-07	1.345E-07	1.352E-07	1.295E-07	1.212E-07	1.118E-07	9.802E-08			
S	1.723E-08	1.045E-08	5.449E-08	1.111E-07	2.306E-07	3.017E-07	2.715E-07	2.304E-07	2.226E-07	2.122E-07	1.858E-07			
SS	1.101E-07	5.714E-08	2.224E-07	9.783E-07	9.211E-07	1.215E-06	1.047E-06	8.123E-07	6.287E-07	5.047E-07	4.101E-07			
S	1.401E-07	6.103E-08	6.728E-08	1.689E-07	4.110E-07	5.467E-07	5.177E-07	4.671E-07	4.799E-07	5.009E-07	5.252E-07			
SS	1.054E-07	1.947E-08	4.582E-08	1.081E-07	3.214E-07	6.176E-07	9.456E-07	1.136E-06	1.294E-06	1.382E-06	1.250E-06			
S	1.107E-07	1.604E-08	5.214E-08	1.057E-07	4.760E-07	7.877E-07	1.074E-06	1.352E-06	1.835E-06	2.334E-06	2.128E-06			
SS	1.106E-08	5.179E-08	2.966E-08	6.772E-08	2.816E-07	4.766E-07	6.094E-07	6.950E-07	7.199E-07	7.148E-07	6.890E-07			
S	1.316E-07	5.522E-08	7.132E-08	1.390E-07	3.109E-07	5.498E-07	6.247E-07	5.051E-07	3.931E-07	3.137E-07	2.527E-07			
SS	2.132E-07	1.162E-07	2.684E-07	3.028E-07	4.399E-07	3.462E-07	3.452E-07	2.833E-07	2.299E-07	1.903E-07	1.607E-07			
S	1.444E-07	1.104E-07	2.756E-07	3.083E-07	3.837E-07	3.552E-07	2.961E-07	2.421E-07	1.813E-07	1.394E-07	1.121E-07			
SS	1.425E-07	2.564E-07	3.043E-07	3.343E-07	3.575E-07	3.152E-07	2.635E-07	2.232E-07	1.861E-07	1.552E-07	1.173E-07			
S	1.149E-07	2.107E-07	2.475E-07	2.757E-07	2.639E-07	2.259E-07	1.888E-07	1.515E-07	1.181E-07	9.466E-08	8.003E-08			
SS	2.202E-07	1.077E-07	1.152E-07	1.396E-07	1.565E-07	1.454E-07	1.275E-07	1.145E-07	9.438E-08	7.650E-08	6.177E-08			
S	1.172E-07	2.104E-08	1.016E-07	1.282E-07	1.516E-07	1.430E-07	1.249E-07	1.083E-07	8.692E-08	7.102E-08	6.292E-08			
SS	2.260E-07	9.297E-08	9.082E-08	1.043E-07	1.823E-07	1.814E-07	1.504E-07	1.176E-07	9.239E-08	7.392E-08	6.279E-08			

ANNUAL AVERAGE CHIM (SECAETER CHIM)

DISTANCE IN MILES FROM THE SITE

SECTION	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.413E-08	3.587E-08	2.344E-08	1.267E-08	8.147E-09	5.754E-09	4.311E-09	3.365E-09	2.705E-09	2.225E-09	1.861E-09
SS	1.174E-08	4.941E-08	3.253E-08	1.772E-08	1.143E-08	8.078E-09	6.051E-09	4.719E-09	3.789E-09	3.110E-09	2.598E-09
S	1.593E-07	9.211E-08	6.076E-08	3.303E-08	2.122E-08	1.494E-08	1.114E-08	8.648E-09	6.911E-09	5.649E-09	4.700E-09
SS	3.404E-07	1.452E-07	2.507E-08	5.192E-08	3.349E-08	2.365E-08	1.768E-08	1.375E-08	1.101E-08	9.015E-09	7.511E-09
S	5.518E-07	2.940E-07	1.791E-07	7.788E-08	6.285E-08	4.411E-08	3.276E-08	2.529E-08	2.010E-08	1.672E-08	1.349E-08
SS	1.124E-06	7.057E-07	3.620E-07	1.791E-07	1.284E-07	9.034E-08	6.718E-08	5.190E-08	4.124E-08	3.348E-08	2.765E-08
S	1.408E-06	7.486E-07	4.377E-07	2.441E-07	1.593E-07	1.134E-07	8.515E-08	6.640E-08	5.323E-08	4.358E-08	3.628E-08
SS	5.575E-07	2.575E-07	1.642E-07	9.233E-08	6.089E-08	4.378E-08	3.324E-08	2.621E-08	2.123E-08	1.757E-08	1.478E-08
S	2.003E-07	1.176E-07	7.824E-08	4.395E-08	2.905E-08	2.097E-08	1.601E-08	1.269E-08	1.035E-08	8.623E-09	7.305E-09
SS	1.144E-07	6.303E-08	4.197E-08	2.320E-08	1.419E-08	1.040E-08	8.274E-09	6.585E-09	5.327E-09	4.433E-09	3.753E-09
S	9.312E-08	4.541E-08	2.402E-08	1.349E-08	8.868E-09	6.643E-09	5.042E-09	4.585E-09	3.733E-09	3.148E-09	2.634E-09
SS	2.113E-08	3.840E-08	2.499E-08	1.355E-08	8.775E-09	6.293E-09	4.733E-09	3.734E-09	3.037E-09	2.527E-09	2.142E-09
S	6.361E-08	3.343E-08	2.192E-08	1.183E-08	7.634E-09	5.420E-09	4.086E-09	3.211E-09	2.601E-09	2.156E-09	1.821E-09
SS	6.254E-08	2.751E-08	1.774E-08	9.549E-09	6.144E-09	4.351E-09	3.272E-09	2.566E-09	2.073E-09	1.715E-09	1.445E-09
S	5.000E-08	2.093E-08	1.244E-08	6.820E-09	4.664E-09	3.503E-09	2.739E-09	2.204E-09	1.823E-09	1.532E-09	
SS	5.412E-08	2.995E-08	1.746E-08	1.055E-08	6.814E-09	4.820E-09	3.616E-09	2.824E-09	2.272E-09	1.870E-09	1.567E-09

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 16.00
 DIAMETER (METERS) 1.19
 EXIT VELOCITY (METERS) 31.00

REF. WIND HEIGHT (METERS) 10.7
 BUILDING HEIGHT (METERS) 96.0
 BLDG. WIN. CRS. SEC. AREA (SQ. METERS) 1600.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT

VENT RELEASE MODE 1 5 PERCENT (METERS/SEC)

ELEVATED LESS THAN 6.200
 MIXED BETWEEN 6.200 AND 31.000
 GROUND LEVEL ABOVE 31.000

AT THE MEASURED WIND HEIGHT (10.7 METERS)

VENT RELEASE MODE 1 WIND SPEED (METERS/SEC)

STABLE CONDITIONS
 ELEVATED LESS THAN 6.200
 MIXED BETWEEN 6.200 AND 31.000
 GROUND LEVEL ABOVE 31.000

WIND SPEED (METERS/SEC)
 UNSTABLE/NEUTRAL CONDITIONS
 LESS THAN 6.200
 BETWEEN 6.200 AND 31.000
 ABOVE 31.000

USE GROUND LEVEL

DIRECTION FROM SITE	1-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.723E-07	1.255E-07	1.260E-07	9.775E-08	7.246E-08	3.641E-08	1.305E-08	5.815E-09	3.384E-09	2.233E-09
S-SE	6.639E-08	1.228E-07	1.327E-07	1.200E-07	9.719E-08	4.978E-08	1.821E-08	8.161E-09	4.745E-09	3.121E-09
SS-E	7.654E-08	2.636E-07	2.631E-07	2.209E-07	1.838E-07	7.312E-08	3.395E-08	1.510E-08	8.699E-09	5.671E-09
SE	3.007E-07	9.520E-07	9.988E-07	6.337E-07	4.123E-07	1.663E-07	5.332E-08	2.389E-08	1.383E-08	9.050E-09
E	1.118E-07	4.175E-07	5.052E-07	4.842E-07	5.204E-07	2.960E-07	1.004E-07	4.457E-08	2.545E-08	1.639E-08
ENE	7.407E-08	1.056E-07	9.334E-07	1.283E-06	1.242E-06	6.458E-07	2.039E-07	9.122E-08	5.221E-08	3.362E-08
ESE	9.237E-08	5.111E-07	1.199E-06	1.887E-06	2.085E-06	8.881E-07	2.495E-07	1.143E-07	6.734E-08	4.373E-08
E-S	9.725E-08	3.212E-07	4.042E-07	7.109E-07	6.346E-07	2.827E-07	9.433E-08	4.413E-08	2.632E-08	1.762E-08
SSE	9.722E-08	3.289E-07	5.569E-07	3.238E-07	2.543E-07	1.202E-07	4.495E-08	2.114E-08	1.275E-08	8.647E-09
SE-E	2.020E-07	4.100E-07	4.300E-07	2.301E-07	1.619E-07	7.059E-08	2.381E-08	1.090E-08	6.577E-09	4.806E-09
ESE	2.432E-07	4.149E-07	2.903E-07	1.427E-07	1.128E-07	4.906E-08	1.686E-08	7.117E-09	4.608E-09	3.117E-09
E-E	3.663E-07	3.435E-07	2.612E-07	1.499E-07	1.188E-07	4.416E-08	1.397E-08	6.318E-09	3.754E-09	2.536E-09
E	2.560E-07	2.477E-07	1.839E-07	1.187E-07	8.013E-08	3.630E-08	1.221E-08	5.477E-09	3.228E-09	2.164E-09
E-SE	4.200E-07	1.476E-07	1.260E-07	9.331E-08	6.199E-08	2.829E-08	9.855E-09	4.347E-09	2.548E-09	1.721E-09
SE	4.100E-07	1.426E-07	1.233E-07	8.697E-08	6.272E-08	3.048E-08	1.059E-08	4.719E-09	2.755E-09	1.830E-09
SSE	3.320E-08	1.015E-07	1.455E-07	9.256E-08	6.288E-08	3.066E-08	1.087E-08	4.870E-09	2.800E-09	1.877E-09

USING CONTINUED CODE 4-10003, VERSION 2.0

DATE 4-JUN-84

RUN TIME 10134188

BEAVER VALLEY, 24 1977 TO 1991 1. NEW IREQ CALCD 25"25 H1=10.7M DELTA 1=1-L

CONTAINER RELEASE CODE FIXED CODE CONTINUOUS RELEASE

H.000000 DECAY, COMPLETE

CONNECTED WITH SITE-SPECIFIC FACTORS

ANNUAL AVERAGE CHZ/4 (SECMETER CODED)	DISTANCE IN MILES FROM THE SITE										
	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.773E-07	1.042E-07	0.120E-08	1.027E-07	1.290E-07	1.313E-07	1.281E-07	1.178E-07	9.965E-08	8.316E-08	7.104E-08
SS	1.227E-07	5.047E-08	5.103E-08	8.400E-08	1.294E-07	1.347E-07	1.357E-07	1.301E-07	1.221E-07	1.126E-07	9.844E-08
SS	1.729E-08	1.013E-08	5.419E-08	1.110E-07	2.315E-07	3.036E-07	2.739E-07	2.330E-07	2.258E-07	2.154E-07	1.800E-07
SS	1.100E-07	6.671E-08	2.229E-07	4.777E-07	9.279E-07	1.230E-06	1.048E-06	8.040E-07	6.160E-07	4.901E-07	3.951E-07
SS	1.702E-07	6.117E-08	6.874E-08	1.699E-07	4.144E-07	5.543E-07	5.277E-07	4.785E-07	4.941E-07	5.177E-07	5.441E-07
SS	1.060E-07	4.910E-08	4.643E-08	1.083E-07	3.248E-07	6.282E-07	9.673E-07	1.169E-06	1.338E-06	1.434E-06	1.300E-06
SS	1.107E-07	4.570E-08	5.183E-08	1.461E-07	4.809E-07	7.996E-07	1.095E-06	1.385E-06	1.889E-06	2.411E-06	2.197E-06
SS	0.410E-07	3.155E-08	2.943E-08	6.977E-08	2.438E-07	4.422E-07	6.188E-07	7.084E-07	7.365E-07	7.312E-07	6.606E-07
SS	1.344E-07	5.462E-08	7.081E-08	1.384E-07	3.117E-07	5.533E-07	6.282E-07	5.029E-07	3.874E-07	3.061E-07	2.443E-07
SS	2.397E-07	1.343E-07	2.071E-07	3.909E-07	4.370E-07	5.946E-07	3.425E-07	2.783E-07	2.235E-07	1.831E-07	1.531E-07
SS	1.410E-07	1.043E-07	2.720E-07	1.159E-07	3.729E-07	3.405E-07	2.863E-07	2.320E-07	1.718E-07	1.307E-07	1.041E-07
SS	4.405E-07	2.527E-07	3.003E-07	3.277E-07	3.477E-07	3.042E-07	2.525E-07	2.126E-07	1.758E-07	1.452E-07	1.086E-07
SS	4.153E-07	2.187E-07	2.443E-07	2.709E-07	2.574E-07	2.191E-07	1.820E-07	1.448E-07	1.119E-07	8.680E-08	7.439E-08
SS	2.363E-07	1.062E-07	1.136E-07	1.375E-07	1.534E-07	1.414E-07	1.237E-07	1.107E-07	9.066E-08	7.282E-08	5.825E-08
SS	1.770E-07	0.841E-07	1.002E-07	1.244E-07	1.487E-07	1.392E-07	1.213E-07	1.047E-07	8.340E-08	6.824E-08	5.024E-08
SS	2.250E-07	2.174E-07	7.960E-08	1.031E-07	1.808E-07	1.797E-07	1.487E-07	1.154E-07	8.985E-08	7.129E-08	6.006E-08

ANNUAL AVERAGE CHZ/4 (SECMETER CODED)	DISTANCE IN MILES FROM THE SITE										
	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	6.130E-09	3.393E-09	2.170E-09	1.139E-09	7.184E-09	5.009E-09	3.718E-09	2.883E-09	2.307E-09	1.890E-09	1.578E-09
SS	6.475E-09	4.220E-09	3.119E-09	1.661E-09	1.059E-09	7.418E-09	5.533E-09	4.308E-09	3.459E-09	2.844E-09	2.382E-09
SS	1.605E-07	9.076E-08	5.888E-08	3.140E-08	1.997E-08	1.402E-08	1.045E-08	8.126E-09	6.517E-09	5.353E-09	4.479E-09
SS	3.256E-07	1.356E-07	8.718E-08	4.659E-08	2.971E-08	2.086E-08	1.556E-08	1.211E-08	9.713E-09	7.978E-09	6.674E-09
SS	5.516E-07	3.006E-07	1.834E-07	9.950E-08	6.411E-08	4.533E-08	3.400E-08	2.656E-08	2.138E-08	1.761E-08	1.477E-08
SS	1.170E-06	7.350E-07	4.747E-07	2.053E-07	1.332E-07	9.467E-08	7.133E-08	5.593E-08	4.516E-08	3.728E-08	3.133E-08
SS	1.703E-06	3.626E-07	4.400E-07	2.426E-07	1.542E-07	1.130E-07	8.546E-08	6.727E-08	5.451E-08	4.516E-08	3.808E-08
SS	5.440E-07	2.542E-07	1.547E-07	8.786E-08	5.727E-08	4.094E-08	3.101E-08	2.446E-08	1.986E-08	1.649E-08	1.394E-08
SS	1.977E-07	1.023E-07	7.103E-08	3.859E-08	2.492E-08	1.770E-08	1.335E-08	1.048E-08	8.489E-09	7.033E-09	5.934E-09
SS	1.103E-07	5.435E-08	1.736E-08	1.097E-08	1.266E-08	8.095E-09	6.649E-09	5.107E-09	4.175E-09	3.442E-09	2.891E-09
SS	4.470E-08	0.871E-08	2.470E-08	1.352E-08	8.429E-09	5.444E-09	4.423E-09	3.434E-09	2.753E-09	2.262E-09	1.894E-09
SS	6.364E-08	3.401E-08	2.147E-08	1.112E-08	6.951E-09	4.815E-09	3.560E-09	2.753E-09	2.199E-09	1.802E-09	1.505E-09
SS	6.420E-08	3.019E-08	1.895E-08	9.402E-09	6.124E-09	4.245E-09	3.136E-09	2.423E-09	1.934E-09	1.583E-09	1.321E-09
SS	4.720E-08	2.441E-08	1.554E-08	8.054E-09	5.032E-09	3.482E-09	2.571E-09	1.985E-09	1.583E-09	1.295E-09	1.040E-09
SS	5.324E-08	2.777E-08	1.724E-08	9.014E-09	5.683E-09	3.918E-09	2.898E-09	2.233E-09	1.782E-09	1.459E-09	1.217E-09
SS	5.137E-08	2.701E-08	1.754E-08	9.223E-09	5.834E-09	4.068E-09	3.021E-09	2.341E-09	1.873E-09	1.535E-09	1.282E-09

VENT AND BUILDING PARAMETERS

RELEASE HEIGHT (METERS) 46.00
 DIAMETER (METERS) 1.10
 EXIT VELOCITY (METERS) 31.00

REF. WIND HEIGHT (METERS) 10.7
 BUILDING HEIGHT (METERS) 46.0
 LOG MIN CRS SEC AREA (SQ METERS) 1600.0
 HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHTS

VENT RELEASE MODE 1
 ELEVATED
 LESS THAN 6.200
 BETWEEN 6.200 AND 31.000
 ABOVE 31.000

AT THE MEASURED WIND HEIGHT (10.7 METERS)

VENT RELEASE MODE 1
 ELEVATED
 LESS THAN 6.200
 BETWEEN 6.200 AND 31.000
 ABOVE 31.000

WIND SPEED (METERS/SEC)
 UNSTABLE/NEUTRAL CONDITIONS
 LESS THAN 6.200
 BETWEEN 6.200 AND 31.000
 ABOVE 31.000

FOR NNE, NE, ESE, SE
 USE GROUND LEVEL

USAFEC FOR POTENTIAL CONTAMINATION, VER. 5.0

PLOT DATE 5-JUN-88

PLOT TIME 10138178

HEAVY VALLEY, PA 15777 TOWN 1581 E JED TOWN COUNCIL 25-25 RT=10.70 DELTA T=1-L

CONTAMINANT RELEASES: STEADY STATE CONTINUOUS RELEASE
8,000 GAY PULLEY, DEPLETED

CHART (SEGMENTED) FOR EACH SEGMENT

	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
DIRECTION FROM SITE	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.590E-08	1.242E-07	1.242E-07	9.456E-08	7.102E-08	3.454E-08	1.181E-08	5.072E-09	2.902E-09	1.898E-09
SSW	6.793E-08	1.226E-07	1.332E-07	1.207E-07	9.757E-08	4.479E-08	1.717E-08	7.506E-09	4.335E-09	2.855E-09
SW	7.630E-08	2.368E-07	2.655E-07	7.239E-07	1.859E-07	9.208E-08	3.243E-08	1.418E-08	8.174E-09	5.374E-09
WSW	3.013E-07	9.622E-07	9.970E-07	6.217E-07	3.975E-07	1.563E-07	4.811E-08	2.110E-08	1.218E-08	8.009E-09
W	1.116E-07	4.220E-07	5.151E-07	4.986E-07	5.391E-07	3.056E-07	1.024E-07	4.580E-08	2.672E-08	1.768E-08
WNW	7.450E-08	4.115E-07	9.575E-07	1.326E-06	1.272E-06	6.714E-07	2.109E-07	9.560E-08	5.622E-08	3.741E-08
W	9.239E-08	5.081E-07	1.132E-06	1.944E-06	2.151E-06	9.059E-07	2.449E-07	1.140E-07	6.760E-08	4.531E-08
WNW	4.743E-08	3.244E-07	6.142E-07	7.264E-07	6.459E-07	2.814E-07	9.023E-08	4.132E-08	2.458E-08	1.655E-08
W	9.763E-08	3.007E-07	5.581E-07	3.894E-07	2.461E-07	1.124E-07	3.972E-08	1.789E-08	1.054E-08	7.058E-09
WNW	2.024E-07	4.044E-07	3.347E-07	2.237E-07	1.535E-07	6.501E-08	2.055E-08	9.004E-09	5.219E-09	3.455E-09
NE	2.630E-07	3.521E-07	2.801E-07	1.733E-07	1.044E-07	4.385E-08	1.402E-08	6.027E-09	3.457E-09	2.271E-09
ENE	3.019E-07	3.234E-07	2.503E-07	1.746E-07	1.102E-07	3.947E-08	1.157E-08	4.883E-09	2.773E-09	1.810E-09
E	2.500E-07	2.434E-07	1.770E-07	1.125E-07	7.452E-08	3.253E-08	1.020E-08	4.304E-09	2.440E-09	1.590E-09
ESE	4.226E-07	1.446E-07	1.232E-07	8.959E-08	5.851E-08	2.573E-08	8.387E-09	3.531E-09	1.949E-09	1.301E-09
SE	4.003E-07	1.497E-07	1.196E-07	8.385E-08	6.004E-08	2.843E-08	7.347E-09	3.464E-09	2.244E-09	1.465E-09
SSE	9.273E-08	1.630E-07	1.034E-07	9.008E-08	6.017E-08	2.841E-08	9.565E-09	4.120E-09	2.357E-09	1.541E-09

FOR NNE, NE, ESE, SE
USE GROUND LEVEL

USING CO-ORDINATE (1000-000000, 000000, 000000)

DATE 5-JUL-84

RUN TIME 10140116

FOR NNE, NE, ESE, SE

USE GROUND LEVEL

REARER VALLEY, 1977 FROM 1981 1 JUL 1980 CAL=2.00005 HI=10.73 DELTA T=1-L

CONTAINS 11 LINES OF MIXED MODE CONTINUOUS RELEASE
CORRECTED USING SITE-SPECIFIC FACTORS

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) AT FIXED POINTS BY DOWNWIND SECTORS *****											
DIRECTION FROM SITE											
DISTANCES IN MILES											
	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.550E-02	3.112E-02	1.920E-02	1.432E-02	7.496E-10	5.129E-10	3.807E-10	3.030E-10	2.661E-10	2.345E-10	1.967E-10
SSW	1.534E-09	1.279E-09	4.915E-10	6.903E-10	4.187E-10	2.724E-10	2.040E-10	1.618E-10	1.411E-10	1.372E-10	1.417E-10
SW	1.049E-09	9.214E-10	7.301E-10	6.156E-10	4.769E-10	3.702E-10	2.599E-10	1.955E-10	1.751E-10	2.152E-10	2.184E-10
SSW	1.612E-09	1.237E-09	1.151E-09	9.347E-10	6.296E-10	1.268E-09	1.150E-09	8.439E-10	6.408E-10	4.964E-10	3.865E-10
S	1.796E-02	1.364E-02	1.114E-02	8.660E-10	5.264E-10	3.932E-10	2.417E-10	1.675E-10	1.588E-10	1.549E-10	1.591E-10
SSW	1.231E-02	9.202E-10	7.111E-10	5.343E-10	3.041E-10	2.067E-10	1.621E-10	1.570E-10	1.908E-10	2.128E-10	2.091E-10
SW	1.235E-02	9.193E-10	6.966E-10	5.187E-10	3.019E-10	2.189E-10	1.843E-10	1.961E-10	2.253E-10	2.970E-10	7.662E-10
SSW	2.321E-10	6.830E-10	4.244E-10	3.640E-10	2.097E-10	1.601E-10	1.275E-10	1.150E-10	1.171E-10	3.662E-10	3.795E-10
S	1.633E-02	1.405E-02	9.273E-10	6.001E-10	4.374E-10	3.087E-10	7.829E-10	6.719E-10	4.943E-10	3.846E-10	2.962E-10
SSW	5.276E-09	3.641E-09	2.384E-09	2.070E-09	1.069E-09	7.262E-10	9.532E-10	7.849E-10	6.063E-10	4.906E-10	3.971E-10
SW	7.334E-09	6.134E-09	4.213E-09	2.999E-09	2.190E-09	1.573E-09	1.486E-09	1.154E-09	8.728E-10	6.579E-10	5.089E-10
SSW	2.567E-02	6.364E-02	5.663E-02	4.314E-02	3.165E-02	2.108E-02	1.612E-02	1.300E-02	1.153E-02	9.898E-10	7.195E-10
SW	2.714E-02	7.259E-02	4.884E-02	3.643E-02	2.256E-02	1.424E-02	1.159E-02	8.814E-10	6.939E-10	5.301E-10	4.436E-10
ESE	7.154E-09	3.892E-09	2.413E-09	1.797E-09	1.164E-09	7.999E-10	5.903E-10	5.109E-10	4.397E-10	3.375E-10	2.734E-10
SE	7.377E-02	3.014E-02	2.124E-02	1.606E-02	1.025E-02	7.773E-10	5.698E-10	4.261E-10	3.163E-10	2.406E-10	2.165E-10
SSW	3.119E-02	2.620E-02	1.719E-02	1.243E-02	8.168E-10	5.996E-10	4.718E-10	3.748E-10	2.743E-10	2.273E-10	1.842E-10

***** RELATIVE DEPOSITION PER UNIT AREA (M**2) AT FIXED POINTS BY DOWNWIND SECTORS *****											
DIRECTION FROM SITE											
DISTANCES IN MILES											
	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.654E-10	7.267E-11	5.741E-11	3.002E-11	1.817E-11	1.220E-11	8.744E-12	6.624E-12	5.150E-12	4.114E-12	3.359E-12
SSW	1.245E-10	7.019E-11	4.402E-11	2.221E-11	1.345E-11	9.418E-12	6.758E-12	5.081E-12	3.958E-12	3.166E-12	2.587E-12
SW	1.915E-10	1.001E-10	6.525E-11	3.274E-11	1.996E-11	1.340E-11	9.622E-12	7.239E-12	5.638E-12	4.512E-12	3.689E-12
SSW	3.162E-10	1.194E-10	7.481E-11	3.780E-11	2.290E-11	1.538E-11	1.103E-11	8.299E-12	6.461E-12	5.169E-12	4.225E-12
S	1.732E-10	1.476E-10	8.616E-11	4.499E-11	2.724E-11	1.828E-11	1.310E-11	9.845E-12	7.658E-12	6.120E-12	4.997E-12
SSW	2.076E-10	2.331E-10	1.149E-10	5.835E-11	3.533E-11	2.369E-11	1.699E-11	1.276E-11	9.920E-12	7.926E-12	6.471E-12
SW	7.210E-10	2.303E-10	1.365E-10	6.979E-11	4.225E-11	2.834E-11	2.031E-11	1.526E-11	1.187E-11	9.484E-12	7.744E-12
SSW	3.105E-10	1.270E-10	7.680E-11	3.890E-11	2.349E-11	1.576E-11	1.127E-11	8.484E-12	6.600E-12	5.274E-12	4.307E-12
S	2.400E-10	1.172E-10	7.460E-11	3.770E-11	2.203E-11	1.532E-11	1.093E-11	8.250E-12	6.418E-12	5.130E-12	4.190E-12
SSW	4.334E-10	1.372E-10	8.408E-11	4.351E-11	2.634E-11	1.767E-11	1.266E-11	9.511E-12	7.396E-12	5.918E-12	4.731E-12
SW	2.044E-10	1.073E-10	1.143E-10	5.779E-11	3.519E-11	2.359E-11	1.693E-11	1.271E-11	9.885E-12	7.897E-12	6.486E-12
SSW	5.416E-10	2.096E-10	1.330E-10	6.764E-11	4.101E-11	2.750E-11	1.971E-11	1.480E-11	1.151E-11	9.191E-12	7.502E-12
SW	4.570E-10	1.670E-10	1.047E-10	5.322E-11	3.222E-11	2.160E-11	1.548E-11	1.163E-11	9.044E-12	7.236E-12	5.907E-12
ESE	2.164E-10	1.094E-10	6.462E-11	3.519E-11	2.127E-11	1.427E-11	1.023E-11	7.681E-12	5.974E-12	4.774E-12	3.890E-12
SE	1.215E-10	4.091E-11	6.491E-11	3.954E-11	2.091E-11	1.403E-11	1.006E-11	7.555E-12	5.876E-12	4.742E-12	3.834E-12
SSW	1.525E-10	7.464E-11	4.227E-11	2.490E-11	1.539E-11	1.032E-11	7.435E-12	5.584E-12	4.341E-12	3.485E-12	2.831E-12

USHC COMPUTER CODE - 4000, REVISED 2.0

PRINT DATE 5-JUL-70

RUN TIME 10100116

FOR NWL, NL, ESZ, SZ
USE GRAND LEVEL

HEAVEN VALLEY, IN 1977 TO 1981: 1.5% TO 1.6% = 25%25 DT=10.7M DELTA T=1-L

CONTINUED AT RELEASE HEIGHT FROM CONTINUOUS RELEASE

***** RELATIVE DEPOSITION PER UNIT AREA (MG/M²) BY DOWNWIND SECTORS *****
SECTOR BOUNDARIES IN MILES

DIRECTION FROM SITE	1-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.701E-02	7.709E-10	3.497E-10	2.605E-10	1.979E-10	2.013E-11	3.124E-11	1.241E-11	6.668E-12	4.141E-12
SSW	5.002E-10	4.101E-10	2.054E-10	1.056E-10	1.340E-10	7.061E-11	2.316E-11	9.430E-12	5.132E-12	3.186E-12
SW	7.212E-10	3.603E-10	2.686E-10	1.262E-10	2.034E-10	1.027E-10	3.435E-11	1.364E-11	7.310E-12	4.541E-12
WSW	1.070E-09	2.811E-10	1.059E-09	6.438E-10	3.230E-10	1.433E-10	3.940E-11	1.565E-11	8.360E-12	5.202E-12
W	1.061E-09	5.422E-10	2.524E-10	1.526E-10	1.631E-10	1.269E-10	4.670E-11	1.860E-11	9.943E-12	6.160E-12
WNW	6.790E-10	3.120E-10	1.712E-10	1.025E-10	2.096E-10	1.749E-10	6.069E-11	2.411E-11	1.288E-11	7.978E-12
NW	5.670E-10	3.132E-10	1.282E-10	2.403E-10	6.104E-10	3.145E-10	7.237E-11	2.884E-11	1.541E-11	9.546E-12
NNW	4.781E-10	2.212E-10	1.312E-10	2.114E-10	3.500E-10	1.455E-10	4.044E-11	1.603E-11	8.569E-12	5.309E-12
N	2.235E-10	4.301E-10	6.120E-10	5.032E-10	3.016E-10	1.254E-10	3.929E-11	1.559E-11	8.332E-12	5.163E-12
NNE	2.419E-09	1.137E-09	4.234E-10	6.133E-10	4.013E-10	1.982E-10	8.534E-11	1.790E-11	9.406E-12	5.953E-12
NE	4.101E-09	2.602E-09	1.376E-09	2.712E-10	5.169E-10	2.025E-10	8.031E-11	2.402E-11	1.284E-11	7.949E-12
ENE	5.665E-09	2.951E-09	1.620E-09	1.133E-09	7.337E-10	2.498E-10	7.051E-11	2.799E-11	1.495E-11	9.251E-12
E	4.860E-09	2.176E-09	1.120E-09	6.851E-10	4.409E-10	1.837E-10	5.532E-11	2.199E-11	1.175E-11	7.280E-12
ESE	2.405E-09	1.183E-09	6.144E-10	4.211E-10	2.713E-10	1.153E-10	3.646E-11	1.452E-11	7.758E-12	4.805E-12
SE	2.004E-09	1.044E-09	5.655E-10	3.194E-10	2.144E-10	1.037E-10	3.523E-11	1.427E-11	7.630E-12	4.730E-12
SSE	1.721E-09	4.192E-10	4.671E-10	2.851E-10	1.852E-10	8.201E-11	2.609E-11	1.052E-11	5.639E-12	3.491E-12

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 46.00
DIAMETER (METERS) 1.10
EXIT VELOCITY (METERS) 31.00

REP. WIND HEIGHT (METERS) 10.7
BUILDING HEIGHT (METERS) 46.0
BLDG. MIN. CRS. SEC. AREA (SQ. METERS) 1600.0
HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT:

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 6.200
MIXED BETWEEN 6.200 AND 31.000
GROUND LEVEL ABOVE 31.000

AT THE MEASURED WIND HEIGHT (10.7 METERS):

VENT RELEASE MODE WIND SPEED (METERS/SEC)

STABLE CONDITIONS
ELEVATED LESS THAN 6.200
MIXED BETWEEN 6.200 AND 31.000
GROUND LEVEL ABOVE 31.000

WIND SPEED (METERS/SEC)
UNSTABLE/NEUTRAL CONDITIONS
LESS THAN 6.200
BETWEEN 6.200 AND 31.000
ABOVE 31.000

BEAVER VALLEY, PA 1922 1000 1231 1 JFB INFO CAL 250/5 0110.74 DELTA T=1-L

~~CONTAINING INFORMATION THAT MAY BE USED TO IDENTIFY~~
~~CONNECTIONS WITH SITE-SPECIFIC FACTORS~~
~~SPECIFIC LOCATIONS OF INTEREST~~

RELATIVE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DISTANCE		X/D	X/D	X/D	D/D
			(MILES)	(METERS)	(SEC/CUB. METER)	(SEC/CUB. METER)	(SEC/CUB. METER)	(PER SQ. METER)
					NO DECAY UNDEPLETED	2,260 DAY DECAY UNDEPLETED	8,000 DAY DECAY DEPLETED	
A	FIRST PLANT GARDEN	S	0.47	790.	9.5E-08	9.5E-08	9.5E-08	3.2E-09
A	FIRST PLANT GARDEN	SSW	0.62	1000.	4.1E-08	4.1E-08	4.0E-08	1.1E-09
A	FIRST PLANT GARDEN	SW	0.31	1300.	6.5E-08	6.5E-08	6.5E-08	7.0E-10
A	FIRST PLANT GARDEN	SSW	0.29	460.	8.3E-08	8.3E-08	8.2E-08	1.6E-09
A	FIRST PLANT GARDEN	S	0.34	540.	7.2E-08	7.2E-08	9.2E-08	1.7E-09
A	FIRST PLANT GARDEN	SW	0.37	600.	6.6E-08	6.6E-08	6.6E-08	1.1E-09
A	FIRST PLANT GARDEN	SW	0.29	470.	9.4E-08	8.4E-08	8.4E-08	1.2E-09
A	FIRST PLANT GARDEN	SW	0.29	460.	6.3E-08	6.3E-08	6.3E-08	9.1E-10
A	FIRST PLANT GARDEN	S	0.30	480.	9.5E-08	9.5E-08	9.5E-08	1.6E-09
A	FIRST PLANT GARDEN	SW	0.43	690.	1.3E-07 6.0E-06	1.3E-07 6.0E-06	1.3E-07 5.5E-06	4.0E-08 2.3E-08
A	FIRST PLANT GARDEN	SW	0.21	340.	3.8E-07 1.3E-05	3.8E-07 1.3E-05	3.8E-07 1.2E-05	1.0E-08 8.0E-08
A	FIRST PLANT GARDEN	ENE	0.21	340.	3.6E-07	3.6E-07	3.5E-07	8.9E-09
A	FIRST PLANT GARDEN	E	0.24	450.	3.1E-07	3.1E-07	3.1E-07	8.5E-09
A	FIRST PLANT GARDEN	ENE	0.32	510.	1.5E-07 4.4E-06	1.5E-07 4.4E-06	1.5E-07 4.1E-06	2.0E-08 2.5E-08
A	FIRST PLANT GARDEN	SE	0.37	600.	1.0E-07 3.7E-06	1.0E-07 3.7E-06	1.0E-07 3.4E-06	2.7E-08 1.9E-08
A	FIRST PLANT GARDEN	SSE	0.41	660.	1.1E-07	1.0E-07	1.0E-07	3.2E-09
A	FIRST RESIDENT	S	1.30	2100.	1.2E-07	1.2E-07	1.2E-07	9.4E-10
A	FIRST RESIDENT	SSW	0.68	1100.	4.4E-08	4.4E-08	4.4E-08	9.7E-10
A	FIRST RESIDENT	SW	1.30	2100.	1.9E-07	1.9E-07	1.9E-07	5.0E-10
A	FIRST RESIDENT	SSW	1.37	2200.	8.0E-07	7.9E-07	8.0E-07	6.7E-10
A	FIRST RESIDENT	W	2.17	3500.	5.5E-07	5.4E-07	5.5E-07	3.3E-10
A	FIRST RESIDENT	W	2.17	3500.	7.5E-07	7.3E-07	7.4E-07	1.9E-10
A	FIRST RESIDENT	W	0.81	1300.	6.6E-08	6.5E-08	6.5E-08	6.5E-10
A	FIRST RESIDENT	W	0.62	1000.	2.2E-08	2.2E-08	2.1E-08	5.7E-10
A	FIRST RESIDENT	S	1.49	2400.	3.1E-07	3.1E-07	3.1E-07	4.4E-10
A	FIRST RESIDENT	ENE	1.55	2500.	4.4E-07 7.9E-07	4.4E-07 7.9E-07	4.4E-07 6.7E-07	1.0E-08 2.4E-09
A	FIRST RESIDENT	NE	0.39	610.	1.0E-07 5.1E-06	1.0E-07 5.1E-06	1.0E-07 4.8E-06	7.0E-08 3.3E-08
A	FIRST RESIDENT	ENE	0.39	610.	2.5E-07	2.5E-07	2.5E-07	8.2E-09
A	FIRST RESIDENT	E	0.41	660.	2.2E-07	2.2E-07	2.1E-07	8.4E-09
A	FIRST RESIDENT	ENE	0.73	1500.	1.3E-07 8.2E-07	1.3E-07 8.2E-07	1.3E-07 7.2E-07	2.0E-08 4.4E-09
A	FIRST RESIDENT	SE	1.06	1700.	4.3E-07 7.4E-07	4.3E-07 7.3E-07	4.3E-07 6.4E-07	1.0E-08 3.4E-09
A	FIRST RESIDENT	SSW	0.81	1300.	4.3E-08	4.3E-08	4.2E-08	1.6E-09
A	FIRST VEG GARDEN	S	1.46	3000.	1.3E-07	1.3E-07	1.3E-07	5.8E-10
A	FIRST VEG GARDEN	SSW	1.37	2200.	1.2E-07	1.2E-07	1.2E-07	4.4E-10
A	FIRST VEG GARDEN	SW	1.30	2100.	1.9E-07	1.9E-07	1.9E-07	5.0E-10
A	FIRST VEG GARDEN	SSW	1.37	2200.	2.0E-07	7.9E-07	8.0E-07	6.7E-10
A	FIRST VEG GARDEN	S	2.17	3500.	5.5E-07	5.4E-07	5.5E-07	3.3E-10
A	FIRST VEG GARDEN	SW	2.17	3500.	7.5E-07	7.3E-07	7.4E-07	1.9E-10
A	FIRST VEG GARDEN	W	0.87	1400.	8.7E-08	8.6E-08	8.6E-08	6.0E-10
A	FIRST VEG GARDEN	W	0.67	1400.	4.3E-08	4.3E-08	4.3E-08	4.3E-10
A	FIRST VEG GARDEN	W	1.54	2500.	3.4E-07	3.4E-07	3.4E-07	4.2E-10
A	FIRST VEG GARDEN	NE	1.62	2600.	4.4E-07 7.4E-07	4.4E-07 7.4E-07	4.4E-07 6.3E-07	1.0E-08 2.2E-09
A	FIRST VEG GARDEN	SE	0.39	620.	1.0E-07 5.0E-06	1.0E-07 5.0E-06	1.0E-07 4.6E-06	7.0E-08 3.2E-08
A	FIRST VEG GARDEN	ENE	0.99	1600.	4.3E-07	3.3E-07	3.3E-07	4.3E-09
A	FIRST VEG GARDEN	E	1.14	1900.	2.7E-07	2.7E-07	2.6E-07	2.8E-09
A	FIRST VEG GARDEN	ENE	0.92	1600.	1.1E-07 7.4E-07	1.1E-07 7.4E-07	1.1E-07 6.5E-07	1.0E-08 3.9E-09
A	FIRST VEG GARDEN	SE	1.04	1700.	4.3E-07 7.4E-07	4.3E-07 7.3E-07	4.3E-07 6.4E-07	1.0E-08 3.4E-09
A	FIRST VEG GARDEN	SSW	0.99	1600.	1.0E-07	1.0E-07	1.0E-07	1.3E-09
A	FIRST PLANT GARDEN	S	1.37	2200.	1.3E-07	1.2E-07	1.2E-07	8.7E-10
A	FIRST PLANT GARDEN	SSW	1.37	2200.	1.2E-07	1.2E-07	1.2E-07	4.4E-10

A	FIRST HEAT A.M.L	S	1.13	2300.	2.2E-07	2.2E-07	2.2E-07	4.6E-10
A	FIRST HEAT A.M.L	S	1.43	2300.	8.7E-07	8.5E-07	8.6E-07	8.7E-10
A	FIRST HEAT A.M.L	S	2.12	4000.	5.3E-07	5.2E-07	5.3E-07	2.4E-10
A	FIRST HEAT A.M.L	S	2.17	4500.	7.5E-07	7.3E-07	7.4E-07	1.9E-10
A	FIRST HEAT A.M.L	S	2.20	4500.	1.3E-06	1.2E-06	1.3E-06	1.8E-10
A	FIRST HEAT A.M.L	S	2.12	4000.	6.0E-07	5.9E-07	6.0E-07	1.3E-10
A	FIRST HEAT A.M.L	S	2.45	3100.	7.3E-07	6.1E-07	6.2E-07	8.4E-10
A	FIRST HEAT A.M.L	SE	1.68	2700.	4.1E-07 7.0E-07	4.1E-07 6.9E-07	4.1E-07 5.9E-07	4.1E-07 7.1E-09
A	FIRST HEAT A.M.L	SE	4.72	7600.	1.0E-07 1.1E-07	1.0E-07 1.0E-07	1.0E-07 7.9E-08	1.0E-07 4.1E-10
A	FIRST HEAT A.M.L	S	2.51	4200.	1.8E-07	1.8E-07	1.7E-07	1.1E-09
A	FIRST HEAT A.M.L	SE	0.73	1500.	1.1E-07 8.2E-07	1.1E-07 8.2E-07	1.1E-07 7.2E-07	1.1E-07 4.4E-09
A	FIRST HEAT A.M.L	SE	1.92	3200.	1.1E-07 3.0E-07	1.1E-07 3.0E-07	1.1E-07 2.5E-07	1.1E-07 1.2E-09
A	FIRST HEAT A.M.L	SE	1.06	1700.	1.2E-07	1.1E-07	1.1E-07	1.2E-09
A	FIRST DAIRY COX	S	1.99	3200.	1.3E-07	1.3E-07	1.3E-07	5.2E-10
A	FIRST DAIRY COX	SS	1.79	3200.	1.4E-07	1.3E-07	1.3E-07	2.7E-10
A	FIRST DAIRY COX	SS	3.17	5100.	7.7E-07	7.4E-07	7.3E-07	7.6E-10
A	FIRST DAIRY COX	S	3.11	5000.	4.9E-07	4.7E-07	4.8E-07	1.7E-10
A	FIRST DAIRY COX	SS	2.73	4400.	1.1E-06	1.0E-06	1.1E-06	1.7E-10
A	FIRST DAIRY COX	SE	4.72	7600.	1.0E-07 1.1E-07	1.0E-07 1.0E-07	1.0E-07 7.9E-08	1.0E-07 4.1E-10
A	FIRST DAIRY COX	SE	4.35	7000.	8.6E-08	8.4E-08	7.8E-08	4.7E-10
A	FIRST DAIRY COX	SE	3.48	5600.	8.9E-08 1.2E-07	8.9E-08 1.2E-07	8.9E-08 9.2E-08	8.9E-08 4.2E-10
A	FIRST DAIRY COX	SS	3.11	5000.	1.1E-07	1.1E-07	1.1E-07	3.5E-10
A	FIRST DAIRY GOAT	SS	3.42	5500.	1.3E-07	1.2E-07	1.2E-07	1.5E-10
A	FIRST DAIRY GOAT	S	1.96	3000.	2.9E-07	2.9E-07	2.9E-07	4.0E-10
A	FIRST DAIRY GOAT	SS	14.29	23000.	2.7E-07	2.1E-07	2.2E-07	6.3E-11
A	FIRST DAIRY GOAT	SS	6.84	11000.	1.2E-06	1.1E-06	1.1E-06	3.6E-10
A	FIRST DAIRY GOAT	SS	9.32	15000.	2.0E-07	1.8E-07	1.8E-07	8.6E-11
A	FIRST DAIRY GOAT	S	2.86	4600.	5.5E-07	5.4E-07	5.4E-07	7.3E-10
A	FIRST DAIRY GOAT	SE	3.95	6200.	2.1E-07 2.0E-07	2.0E-07 2.0E-07	1.0E-07 1.6E-07	5.2E-10 4.6E-10
A	FIRST DAIRY GOAT	SE	1.30	2100.	3.0E-07 8.2E-07	3.0E-07 6.1E-07	3.7E-07 7.0E-07	2.6E-08 4.5E-09
A	FIRST DAIRY GOAT	SE	2.16	6700.	1.4E-07	1.4E-07	1.3E-07	8.9E-10
A	FIRST DAIRY GOAT	S	2.61	4200.	1.8E-07	1.8E-07	1.7E-07	1.1E-09
A	FIRST DAIRY GOAT	SE	1.74	2800.	1.5E-07 3.1E-07	1.5E-07 3.1E-07	1.5E-07 2.6E-07	4.9E-08 1.5E-09
A	FIRST DAIRY GOAT	SE	3.48	5600.	8.9E-08 1.2E-07	8.9E-08 1.2E-07	8.9E-08 9.2E-08	8.9E-08 4.2E-10
A	FIRST DAIRY GOAT	SS	6.21	10000.	4.2E-08	4.0E-08	3.7E-08	1.1E-10

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 46.00
DIAMETER (METERS) 1.10
EXIT VELOCITY (METERS) 31.00

REF. WIND HEIGHT (METERS) 10.7
BUILDING HEIGHT (METERS) 46.0
ALOG. MIN. CRS. SEC. AREA (SQ. METERS) 1600.0
HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT:

VENT RELEASE MODE WIND SPEED (METERS/SEC)
ELEVATED LESS THAN 6.200
MIXED BETWEEN 6.200 AND 31.000
GROUND LEVEL ABOVE 31.000

AT THE MEASURED WIND HEIGHT (10.7 METERS):

VENT RELEASE MODE WIND SPEED (METERS/SEC)
ELEVATED STABLE CONDITIONS
MIXED LESS THAN 6.200
GROUND LEVEL BETWEEN 6.200 AND 31.000
ABOVE 31.000

WIND SPEED (METERS/SEC)
UNSTABLE/NEUTRAL CONDITIONS
LESS THAN 6.200
BETWEEN 6.200 AND 31.000
ABOVE 31.000

CONTINUITY
MIXED MODE
INTERMITTENT

BEAVER VALLEY, PG 1277 FROM 1281 1 1ED 1ED CAL=25N/5 HT=10.7M DELTA T=T-L

CORRECTION SHEET FOR THE 400 HOUR MIXED MODE RELEASE
INTERMITTENT RELEASE CALCULATIONS
 CORRECTED USING SITE-SPECIFIC FACTORS
 SPECIFIC POINTS OF INTEREST

RELEASE TO	TYPE OF LOCATION	DIRECTION FROM SITE	DISTANCE (MILES)	DISTANCE (METERS)	X/Z NO DECAY UNDEPLETED	X/Z 2,260 DAY DECAY UNDEPLETED	X/Z 8,000 DAY DECAY DEPLETED	D/D (PER SQ. METER)
A	WEST PLANT BARRY	S	0.49	790.	3.4E-07	3.4E-07	3.4E-07	1.1E-08
B	WEST PLANT BARRY	SSW	0.62	1000.	1.5E-07	1.5E-07	1.5E-07	3.8E-09
C	WEST PLANT BARRY	SW	0.81	1300.	2.3E-07	2.3E-07	2.3E-07	2.5E-09
D	WEST PLANT BARRY	SSW	0.29	460.	8.3E-08	8.3E-08	8.2E-08	1.6E-09
E	WEST PLANT BARRY	W	0.34	540.	9.2E-08	9.2E-08	9.2E-08	1.7E-09
F	WEST PLANT BARRY	W	0.37	600.	6.6E-08	6.6E-08	6.6E-08	1.1E-09
G	WEST PLANT BARRY	NE	0.29	470.	8.4E-08	8.4E-08	8.4E-08	1.2E-09
H	WEST PLANT BARRY	NE	0.29	460.	6.3E-08	6.3E-08	6.3E-08	9.1E-10
I	WEST PLANT BARRY	N	0.30	480.	1.1E-07	1.1E-07	1.1E-07	1.8E-09
J	WEST PLANT BARRY	ENE	0.43	690.	4.7E-07 1.4E-05	3.7E-07 1.4E-05	4.7E-07 1.3E-05	4.7E-07 5.5E-08
K	WEST PLANT BARRY	NE	0.21	340.	0.4E-07 2.9E-05	0.4E-07 2.9E-05	0.3E-07 2.8E-05	2.3E-08 1.8E-07
L	WEST PLANT BARRY	ENE	0.21	340.	1.1E-06	1.1E-06	1.1E-06	2.7E-08
M	WEST PLANT BARRY	E	0.28	450.	9.6E-07	9.6E-07	9.5E-07	2.6E-08
N	WEST PLANT BARRY	ESE	0.32	510.	5.1E-07 1.4E-05	5.1E-07 1.4E-05	4.5E-07 1.3E-05	4.4E-08 8.0E-08
O	WEST PLANT BARRY	SE	0.37	600.	4.8E-07 1.1E-05	3.8E-07 1.1E-05	3.8E-07 1.0E-05	4.8E-08 5.5E-08
P	WEST PLANT BARRY	SSW	0.41	660.	4.0E-07	4.0E-07	4.0E-07	1.2E-08
Q	WEST RESIDENT	S	1.30	2100.	3.7E-07	3.7E-07	3.6E-07	2.9E-09
R	WEST RESIDENT	SSW	0.68	1100.	1.5E-07	1.5E-07	1.5E-07	3.4E-09
S	WEST RESIDENT	S	1.30	2100.	6.7E-07	6.7E-07	6.7E-07	1.8E-09
T	WEST RESIDENT	SSW	1.37	2200.	2.2E-06	2.2E-06	2.2E-06	1.9E-09
U	WEST RESIDENT	W	2.17	3500.	1.4E-06	1.4E-06	1.4E-06	8.4E-10
V	WEST RESIDENT	SW	2.17	3500.	1.6E-06	1.6E-06	1.6E-06	4.2E-10
W	WEST RESIDENT	W	0.81	1300.	1.6E-07	1.6E-07	1.6E-07	1.6E-09
X	WEST RESIDENT	W	0.62	1000.	5.7E-08	5.7E-08	5.7E-08	1.5E-09
Y	WEST RESIDENT	W	1.42	2400.	9.5E-07	9.4E-07	9.4E-07	1.8E-09
Z	WEST RESIDENT	ENE	1.55	2500.	4.3E-06 2.1E-06	4.3E-06 2.0E-06	4.2E-06 1.7E-06	2.0E-08 6.2E-09
AA	WEST RESIDENT	NE	0.38	610.	3.0E-07 1.2E-05	3.0E-07 1.2E-05	3.0E-07 1.1E-05	2.8E-08 7.7E-08
AB	WEST RESIDENT	ENE	0.38	610.	6.9E-07	6.9E-07	6.8E-07	2.2E-08
AC	WEST RESIDENT	E	0.41	660.	5.4E-07	5.4E-07	5.4E-07	2.1E-08
AD	WEST RESIDENT	ESE	0.93	1500.	4.9E-07 2.7E-06	4.9E-07 2.7E-06	4.9E-07 2.4E-06	5.8E-08 1.5E-08
AE	WEST RESIDENT	SE	1.06	1700.	3.9E-07 2.1E-06	3.9E-07 2.1E-06	3.9E-07 1.9E-06	4.5E-08 9.8E-09
AF	WEST RESIDENT	SSW	0.41	1300.	2.9E-07	2.9E-07	2.8E-07	5.5E-09
AG	WEST VEG GARD	S	1.86	3000.	4.1E-07	4.1E-07	4.0E-07	1.8E-09
AH	WEST VEG GARD	SSW	1.37	2200.	5.0E-07	4.9E-07	4.9E-07	1.8E-09
AI	WEST VEG GARD	SW	1.30	2100.	6.7E-07	6.7E-07	6.7E-07	1.8E-09
AJ	WEST VEG GARD	SSW	1.37	2200.	2.2E-06	2.2E-06	2.2E-06	1.9E-09
AK	WEST VEG GARD	W	2.17	3500.	1.4E-06	1.4E-06	1.4E-06	8.4E-10
AL	WEST VEG GARD	SW	2.17	3500.	1.6E-06	1.6E-06	1.6E-06	4.2E-10
AM	WEST VEG GARD	W	0.87	1400.	1.8E-07	1.8E-07	1.8E-07	1.3E-09
AN	WEST VEG GARD	W	0.87	1400.	1.6E-07	1.6E-07	1.6E-07	1.6E-09
AO	WEST VEG GARD	W	1.55	2500.	9.6E-07	9.5E-07	9.6E-07	1.2E-09
AP	WEST VEG GARD	ENE	1.62	2600.	4.3E-06 1.9E-06	4.2E-06 1.9E-06	4.2E-06 1.6E-06	3.0E-08 5.8E-09
AQ	WEST VEG GARD	NE	0.39	620.	4.4E-07 1.2E-05	4.4E-07 1.2E-05	4.4E-07 1.1E-05	2.8E-08 7.4E-08
AR	WEST VEG GARD	ENE	0.92	1400.	7.5E-07	7.5E-07	7.3E-07	9.8E-09
AS	WEST VEG GARD	E	1.18	1900.	6.6E-07	6.6E-07	6.4E-07	6.9E-09
AT	WEST VEG GARD	ESE	0.92	1400.	4.2E-07 2.5E-06	4.2E-07 2.5E-06	4.1E-07 2.2E-06	5.0E-08 1.3E-08
AV	WEST VEG GARD	SE	1.06	1700.	3.9E-07 2.1E-06	3.9E-07 2.1E-06	3.9E-07 1.9E-06	4.5E-08 9.8E-09
AW	WEST VEG GARD	SSW	0.92	1400.	3.4E-07	3.4E-07	3.3E-07	4.1E-09
AX	WEST PLANT AVAL	S	1.37	2200.	3.9E-07	3.9E-07	3.9E-07	2.7E-09

1	WST HEAT A.M.L	SS	1.37	2200.	5.0E-07	2.9E-07	4.9E-07	1.8E-09
2	WST HEAT A.M.L	SE	1.14	2300.	7.6E-07	7.5E-07	7.6E-07	1.6E-09
3	WST HEAT A.M.L	SS	1.43	2300.	2.5E-06	2.4E-06	2.5E-06	1.9E-09
4	WST HEAT A.M.L	SE	2.42	2000.	1.0E-06	1.3E-06	1.0E-06	6.3E-10
5	WST HEAT A.M.L	SE	2.17	3500.	1.6E-06	1.6E-06	1.6E-06	4.2E-10
6	WST HEAT A.M.L	SE	2.80	4500.	2.6E-06	2.5E-06	2.6E-06	3.7E-10
7	WST HEAT A.M.L	SE	2.72	3700.	1.6E-06	1.6E-06	1.6E-06	3.5E-10
8	WST HEAT A.M.L	SE	2.55	3100.	1.7E-06	1.8E-06	1.8E-06	2.5E-09
9	WST HEAT A.M.L	SE	1.65	2700.	1.8E-06	1.8E-06	1.5E-06	5.4E-09
10	WST HEAT A.M.L	SE	4.72	7600.	2.6E-07	2.6E-07	2.0E-07	1.1E-09
11	WST HEAT A.M.L	SE	2.61	4200.	4.6E-07	4.6E-07	4.4E-07	2.4E-09
12	WST HEAT A.M.L	SE	0.93	1500.	2.7E-06	2.7E-06	2.4E-06	1.5E-08
13	WST HEAT A.M.L	SE	1.99	3200.	5.4E-07	8.3E-07	6.9E-07	3.4E-09
14	WST HEAT A.M.L	SE	1.06	1700.	3.9E-07	3.8E-07	3.8E-07	3.9E-09
15	WST HEAT A.M.L	SE	1.99	3200.	4.1E-07	4.0E-07	4.0E-07	1.6E-09
16	WST HEAT A.M.L	SE	1.99	3200.	5.3E-07	5.3E-07	5.3E-07	1.1E-09
17	WST HEAT A.M.L	SE	3.17	5100.	2.1E-06	2.0E-06	2.0E-06	2.1E-09
18	WST HEAT A.M.L	SE	3.11	5000.	1.3E-06	1.3E-06	1.3E-06	4.6E-10
19	WST HEAT A.M.L	SE	2.73	4400.	2.3E-06	2.3E-06	2.3E-06	3.6E-10
20	WST HEAT A.M.L	SE	4.72	7600.	2.6E-07	2.6E-07	2.0E-07	1.0E-09
21	WST HEAT A.M.L	SE	4.35	7000.	2.1E-07	2.1E-07	2.0E-07	1.2E-09
22	WST HEAT A.M.L	SE	3.49	5600.	3.5E-07	3.4E-07	2.7E-07	1.2E-09
23	WST HEAT A.M.L	SE	3.11	5000.	3.6E-07	3.6E-07	3.5E-07	1.1E-09
24	WST HEAT A.M.L	SE	3.42	5500.	4.6E-07	4.5E-07	4.5E-07	5.3E-10
25	WST HEAT A.M.L	SE	1.86	3000.	9.4E-07	9.2E-07	9.3E-07	1.3E-09
26	WST HEAT A.M.L	SE	14.29	23000.	7.3E-07	5.9E-07	6.0E-07	1.7E-10
27	WST HEAT A.M.L	SE	6.84	11000.	2.2E-06	2.0E-06	2.1E-06	6.8E-10
28	WST HEAT A.M.L	SE	9.32	15000.	6.1E-07	5.6E-07	5.4E-07	2.6E-10
29	WST HEAT A.M.L	SE	2.84	4600.	1.6E-06	1.6E-06	1.6E-06	2.2E-09
30	WST HEAT A.M.L	SE	3.85	6200.	5.5E-07	5.4E-07	4.2E-07	1.2E-09
31	WST HEAT A.M.L	SE	1.30	2100.	1.8E-06	1.8E-06	1.6E-06	1.0E-08
32	WST HEAT A.M.L	SE	4.16	6700.	6.0E-07	5.9E-07	5.5E-07	3.7E-09
33	WST HEAT A.M.L	SE	2.61	4200.	4.6E-07	4.6E-07	4.4E-07	2.8E-09
34	WST HEAT A.M.L	SE	1.74	2900.	9.4E-07	9.3E-07	7.8E-07	4.5E-09
35	WST HEAT A.M.L	SE	3.49	5600.	3.5E-07	3.4E-07	2.7E-07	1.2E-09
36	WST HEAT A.M.L	SE	6.21	10000.	1.5E-07	1.4E-07	1.3E-07	3.8E-10

VENT AND BUILDING PARAMETERS:

RELEASE HEIGHT (METERS) 46.00
DIAMETER (METERS) 1.10
EXIT VELOCITY (METERS) 31.00

REF. WIND HEIGHT (METERS) 10.7
BUILDING HEIGHT (METERS) 46.0
BLDG. MIN. CRS. SEC. AREA (SQ. METERS) 1600.0
HEAT EMISSION RATE (CAL/SEC) 0.0

AT THE RELEASE HEIGHT:

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 6.200
MIXED BETWEEN 6.200 AND 31.000
GROUND LEVEL ABOVE 31.000

AT THE MEASURED WIND HEIGHT (10.7 METERS):

VENT RELEASE MODE WIND SPEED (METERS/SEC)

ELEVATED LESS THAN 6.200
MIXED BETWEEN 6.200 AND 31.000
GROUND LEVEL ABOVE 31.000

WIND SPEED (METERS/SEC)
UNSTABLE/NEUTRAL CONDITIONS
LESS THAN 6.200
BETWEEN 6.200 AND 31.000
ABOVE 31.000

TOTAL NUMBER OF PUFFS PER HOUR:
1
100