

1975

	Units	July	
1. Gross (88) Total	Ci	1.50×10^{-1}	5.9
Gross (88) Average Concentration	$\mu\text{Ci/ml}$	9.50×10^{-10}	4.8
Gross (88) Maximum Concentration	$\mu\text{Ci/ml}$	7.51×10^{-8}	5.9
2. Tritium			
a. Total Release	Ci	4.12×10^1	4.3
b. Average Concentration	$\mu\text{Ci/ml}$	2.60×10^{-7}	3.7
3. Dissolved Noble Gases			
a. Total Release	Ci	7.11×10^{-4}	2.0
b. Average Concentration	$\mu\text{Ci/ml}$	4.48×10^{-12}	1.7
4. Gross Alpha Radioactivity			
a. Total Release	Ci	$<1.09 \times 10^{-4}$	<5.1
b. Average Concentration	$\mu\text{Ci/ml}$	$<6.88 \times 10^{-13}$	<4.1
5. Volume of Liquid Waste to The Discharge Canal	Liters	9.92×10^5	1.2
6. Volume of Dilution Water	Liters	1.58×10^{11}	1.1
7. Isotopes Released			
Mn ⁵⁴	Ci	1.21×10^{-3}	5.9
Co ⁵⁸	Ci	4.04×10^{-4}	6.3
Co ⁶⁰	Ci	2.26×10^{-3}	4.5
Fe ⁵⁹	Ci	$<2.39 \times 10^{-4}$	<5.1
Sr ⁸⁹	Ci	$<4.02 \times 10^{-3}$	<9.1
Sr ⁹⁰	Ci	$<7.93 \times 10^{-4}$	<2.1
I ¹³¹	Ci	2.81×10^{-4}	1.3
Xe ¹³³	Ci	7.11×10^{-4}	2.0
Cs ¹³⁴	Ci	5.57×10^{-2}	1.2
Cs ¹³⁷	Ci	8.53×10^{-2}	2.8
Ba-La ¹⁴⁰	Ci	$<4.52 \times 10^{-4}$	<1.1
Percent of Technical Specification Limit	%	0.041	0

Aug.	Sept.	Oct.	Nov.	Dec.	
8×10^{-2}	1.06×10^{-1}	6.61×10^{-1}	4.19×10^{-2}	5.01×10^{-2}	
5×10^{-10}	7.70×10^{-10}	7.03×10^{-9}	3.82×10^{-10}	4.13×10^{-10}	
$x 10^{-8}$	8.03×10^{-8}	5.46×10^{-8}	3.33×10^{-8}	8.56×10^{-8}	
1×10^1	1.05×10^1	9.92	3.70×10^1	2.94×10^1	
5×10^{-7}	7.61×10^{-8}	1.05×10^{-7}	3.37×10^{-7}	2.42×10^{-7}	
5×10^{-3}	1.62×10^{-2}	3.98×10^{-2}	$< 2.96 \times 10^{-2}$	5.23×10^{-2}	
8×10^{-11}	1.17×10^{-10}	4.23×10^{-10}	$< 2.70 \times 10^{-10}$	4.32×10^{-10}	
3×10^{-5}	$< 1.86 \times 10^{-5}$	$< 1.96 \times 10^{-5}$	$< 5.52 \times 10^{-5}$	$< 4.09 \times 10^{-6}$	
6×10^{-13}	$< 1.34 \times 10^{-13}$	$< 2.08 \times 10^{-13}$	$< 5.03 \times 10^{-13}$	$< 3.38 \times 10^{-14}$	
2×10^6	9.33×10^5	9.82×10^5	1.10×10^6	1.02×10^6	
5×10^{11}	1.38×10^{11}	9.40×10^{10}	1.09×10^{11}	1.21×10^{11}	
5×10^{-4}	8.71×10^{-4}	4.42×10^{-3}	2.02×10^{-3}	9.67×10^{-4}	
4×10^{-3}	8.30×10^{-3}	3.98×10^{-2}	1.08×10^{-2}	5.60×10^{-3}	
3×10^{-3}	1.26×10^{-2}	8.54×10^{-3}	4.32×10^{-3}	3.24×10^{-3}	
01×10^{-4}	$< 7.83 \times 10^{-4}$	$< 9.11 \times 10^{-4}$	$< 6.49 \times 10^{-4}$	$< 9.33 \times 10^{-4}$	
24×10^{-5}	$< 1.86 \times 10^{-4}$	3.04×10^{-4}	$< 7.73 \times 10^{-5}$	$< 2.04 \times 10^{-4}$	
05×10^{-5}	$< 1.86 \times 10^{-5}$	9.72×10^{-5}	$< 1.10 \times 10^{-5}$	$< 2.04 \times 10^{-5}$	
7×10^{-3}	4.73×10^{-5}	1.21×10^{-1}	$< 1.86 \times 10^{-3}$	2.62×10^{-2}	
5×10^{-3}	1.62×10^{-2}	3.98×10^{-2}	$< 2.96 \times 10^{-2}$	5.23×10^{-2}	
5×10^{-2}	1.75×10^{-2}	1.65×10^{-1}	5.83×10^{-3}	2.86×10^{-3}	
0×10^{-2}	5.95×10^{-2}	3.11×10^{-1}	1.35×10^{-2}	9.52×10^{-3}	
25×10^{-3}	$< 2.64 \times 10^{-3}$	$< 9.39 \times 10^{-3}$	$< 2.69 \times 10^{-3}$	$< 5.12 \times 10^{-4}$	
0448	0.0293	0.9034	0.0368	0.1808	

19-6E-

LIQUID RADIOACTIVE RELEASES

1975

		July	Aug
1. Gross (68) Total	Ci	6.30×10^{-3}	1.92
Gross (68) Average Concentration	μ Ci/ml	3.97×10^{-11}	1.67
Gross (68) Maximum Concentration	μ Ci/ml	3.97×10^{-11}	1.67
2. Tritium			
a. Total Release	Ci	2.77×10^{-1}	2.
b. Average Concentration	μ Ci/ml	1.75×10^{-9}	2.07
3. Dissolved Noble Gases			
a. Total Release	Ci	2.24×10^{-3}	8.87
b. Average Concentration	μ Ci/ml	1.41×10^{-11}	7.71
4. Gross Alpha Radioactivity			
a. Total Release	Ci	$< 4.02 \times 10^{-5}$	< 4.02
b. Average Concentration	μ Ci/ml	$< 2.54 \times 10^{-13}$	< 3.50
5. Volume of Liquid Waste to			
The Discharge Canal	Liters	1.34×10^6	1.34
6. Volume of Dilute Water	Liters	1.58×10^{11}	1.15
7. Isotopes Released			
Mn ⁵⁴	Ci	$< 2.41 \times 10^{-4}$	< 1.46
Co ⁵⁸	Ci	2.92×10^{-4}	1.83
Co ⁶⁰	Ci	8.53×10^{-4}	7.78
Fe ⁵⁹	Ci	$< 4.5 \times 10^{-4}$	< 7.88
Sr ⁸⁹	Ci	1.15×10^{-3}	< 2.68
Sr ⁹⁰	Ci	3.62×10^{-4}	< 1.34
I ¹³¹	Ci	$< 6.0 \times 10^{-4}$	< 8.45
Xe ¹³³	Ci	2.24×10^{-3}	< 8.87
Cs ¹³⁴	Ci	6.28×10^{-4}	1.38
Cs ¹³⁷	Ci	1.33×10^{-3}	4.78
Ba-La ¹⁴⁰	Ci	$< 3.79 \times 10^{-4}$	< 1.46
Percent of Technical Specification Limit	%	0.041	0.0

g.	Sept.	Oct.	Nov.	Dec.	
$\times 10^{-2}$	1.42×10^{-2}	1.98×10^{-2}	8.51×10^{-3}	4.35×10^{-3}	
$\times 10^{-10}$	1.02×10^{-10}	2.10×10^{-10}	7.76×10^{-11}	3.59×10^{-11}	
$\times 10^{-10}$	1.02×10^{-10}	2.10×10^{-10}	7.76×10^{-11}	3.59×10^{-11}	
39	9.50×10^{-1}	1.90×10^{-1}	1.51	3.92×10^{-2}	
$\times 10^{-8}$	6.86×10^{-9}	2.02×10^{-9}	1.38×10^{-8}	3.22×10^{-10}	
$\times 10^{-3}$	3.19×10^{-3}	3.86×10^{-2}	$< 4.04 \times 10^{-3}$	$< 9.73 \times 10^{-3}$	
$\times 10^{-11}$	2.30×10^{-11}	4.10×10^{-10}	$< 3.68 \times 10^{-11}$	$< 8.02 \times 10^{-11}$	
$\times 10^{-6}$	$< 4.02 \times 10^{-6}$	$< 4.02 \times 10^{-6}$	$< 4.02 \times 10^{-6}$	$< 1.34 \times 10^{-5}$	
$\times 10^{-14}$	$< 2.90 \times 10^{-14}$	$< 4.28 \times 10^{-14}$	$< 3.67 \times 10^{-14}$	$< 1.1 \times 10^{-13}$	
$\times 10^6$	1.34×10^6	1.34×10^6	1.34×10^6	1.34	
$\times 10^{11}$	1.38×10^{11}	9.40×10^{10}	1.09×10^{11}	1.34×10^{11}	
$\times 10^{-4}$	1.18×10^{-4}	$< 2.21 \times 10^{-4}$	$< 2.69 \times 10^{-4}$	$< 2.60 \times 10^{-4}$	
$\times 10^{-3}$	2.55×10^{-4}	2.10×10^{-3}	2.48×10^{-3}	8.19×10^{-4}	
$\times 10^{-5}$	$< 8.28 \times 10^{-4}$	2.01×10^{-4}	$< 3.18 \times 10^{-4}$	2.29×10^{-4}	
$\times 10^{-4}$	$< 5.25 \times 10^{-4}$	$< 7.00 \times 10^{-4}$	$< 3.75 \times 10^{-4}$	$< 4.79 \times 10^{-4}$	
$\times 10^{-4}$	$< 6.28 \times 10^{-4}$	3.08×10^{-4}	$< 9.39 \times 10^{-5}$	1.15×10^{-4}	
$\times 10^{-5}$	$< 2.68 \times 10^{-5}$	5.10×10^{-5}	$< 1.34 \times 10^{-5}$	4.29×10^{-5}	
$\times 10^{-3}$	$< 1.30 \times 10^{-3}$	$< 1.33 \times 10^{-2}$	$< 1.40 \times 10^{-3}$	$< 1.10 \times 10^{-3}$	
$\times 10^{-3}$	3.19×10^{-3}	3.86×10^{-2}	4.04×10^{-3}	$< 9.73 \times 10^{-3}$	
$\times 10^{-3}$	2.65×10^{-3}	4.75×10^{-4}	$< 4.10 \times 10^{-4}$	1.96×10^{-5}	
$\times 10^{-3}$	6.76×10^{-3}	6.17×10^{-4}	1.83×10^{-3}	1.00×10^{-4}	
$\times 10^{-3}$	$< 1.49 \times 10^{-3}$	$< 1.74 \times 10^{-3}$	1.30×10^{-3}	$< 1.14 \times 10^{-3}$	
48	0.0293	0.9034	0.0368	0.1808	

1975

	Units	July	
1. Total Noble Gases	ci	$< 2.88 \times 10^{-1}$	< 2.8
2. Total Halogens	ci	5.61×10^{-4}	4.50
Total Particulate Gross			
3. Radioactivity (BX)	ci	6.63×10^{-3}	7.14
4. Total Tritium	ci	1.24×10^{-1}	2.91
Total Particulate Gross			
5. Alpha Radioactivity	ci	5.35×10^{-7}	1.82
6. Maximum Noble Gas Release Rate	μ Ci/sec	$< 1.07 \times 10^{-1}$	< 1.0
7. Percent of Applicable Limit			
for a) Noble Gas	%	14.6	
b, Halogens	%	0.807	
c) Particulate	%	3.20	
8. Isotopes Released			
Mn ⁵⁴	ci	2.24×10^{-5}	< 1.2
Co ⁵⁸	ci	4.80×10^{-3}	3.51
Co ⁶⁰	ci	3.13×10^{-4}	1.41
Fe ⁵⁹	ci	$< 3.69 \times 10^{-4}$	< 1.3
Rb ⁸⁸	ci	-	
Sr ⁸⁹	ci	$< 5.51 \times 10^{-6}$	< 4.1
Sr ⁹⁰	ci	$< 9.26 \times 10^{-7}$	< 4.6
Cs ¹³⁴	ci	3.44×10^{-4}	5.26
Cs ¹³⁷	ci	7.87×10^{-4}	1.31
Halogens			
I ¹³¹	ci	5.61×10^{-4}	4.50
I ¹³³	ci	none present	none

Aug.	Sept.	Oct.	Nov.	Dec.	
5×10^{-1}	$< 2.78 \times 10^{-1}$	5.86×10^{-1}	$< 2.78 \times 10^{-1}$	$< 3.49 \times 10^{-1}$	
$x 10^{-4}$	5.13×10^{-4}	7.35×10^{-4}	1.38×10^{-4}	6.78×10^{-3}	
$x 10^{-4}$	2.79×10^{-3}	5.70×10^{-3}	2.28×10^{-4}	3.14×10^{-3}	
$x 10^{-1}$	1.99×10^{-1}	6.73×10^{-1}	1.23×10^{-1}	2.56×10^{-1}	
$x 10^{-7}$	9.85×10^{-7}	2.28×10^{-7}	$< 5.34 \times 10^{-8}$	$< 6.13 \times 10^{-8}$	
7×10^1	4.5×10^2	2.25×10^3	$< 1.04 \times 10^1$	$< 1.30 \times 10^1$	
2.24	7.57	4.59	2.00	1.97	
0.149	0.728	1.56	1.69	1.94	
8.25	0.610	0.871	0.658	0.520	
5×10^{-5}	$< 4.62 \times 10^{-5}$	$< 4.29 \times 10^{-5}$	$< 1.10 \times 10^{-5}$	$< 1.34 \times 10^{-4}$	
$x 10^{-4}$	2.86×10^{-4}	8.52×10^{-5}	6.32×10^{-5}	1.07×10^{-3}	
$x 10^{-4}$	2.20×10^{-4}	3.77×10^{-4}	5.06×10^{-5}	9.72×10^{-4}	
9×10^{-4}	$< 2.28 \times 10^{-4}$	$< 7.99 \times 10^{-5}$	$< 3.73 \times 10^{-5}$	$< 3.87 \times 10^{-5}$	
-	1.53×10^{-3}	4.45×10^{-3}	-	-	
7×10^{-6}	$< 6.51 \times 10^{-6}$	$< 2.12 \times 10^{-6}$	$< 1.57 \times 10^{-6}$	$< 6.11 \times 10^{-6}$	
6×10^{-7}	$< 8.71 \times 10^{-7}$	3.7×10^{-7}	2.39×10^{-7}	$< 4.84 \times 10^{-7}$	
$x 10^{-5}$	2.27×10^{-4}	1.35×10^{-4}	1.63×10^{-5}	2.83×10^{-4}	
$x 10^{-5}$	2.52×10^{-4}	5.25×10^{-4}	4.80×10^{-5}	6.41×10^{-4}	
$x 10^{-4}$	5.13×10^{-4}	7.35×10^{-4}	1.38×10^{-4}	6.78×10^{-3}	
present	none present	none present	none present	none present	

1975

	Units	July	Aug
1. Total Noble Gases	ci	8.95×10^2	5.87
2. Total Halogens	ci	2.14×10^{-2}	3.91
Total Particulate Gross			
3. Radioactivity (BY)	ci	1.52×10^{-1}	1.88
4. Total Tritium	ci	9.70×10^{-2}	6.2 x
Total Particulate Gross			
5. Alpha Radioactivity	ci	$< 4.95 \times 10^{-7}$	6.54
6. Maximum Noble Gas Release Rate	μ ci/sec	9.5×10^3	1.46
7. Percent of Applicable Limit			
for: (1) a) Noble Gas	%	14.6	2.
b) Halogens	%	0.807	0.
c) Particulate	%	3.2	8.
8. Isotopes Released			
Mn ⁵⁴	ci	$< 1.44 \times 10^{-4}$	5.13
Co ⁵⁸	ci	6.58×10^{-4}	1.95
Co ⁶⁰	ci	2.13×10^{-4}	7.22
Fe ⁵⁹	ci	$< 3.40 \times 10^{-4}$	< 6.18
Rb ⁸⁸	ci	1.5×10^{-1}	1.85
Sr ⁸⁹	ci	$< 1.25 \times 10^{-5}$	< 1.75
Sr ⁹⁰	ci	$< 1.84 \times 10^{-6}$	< 1.93
Cs ¹³⁴	ci	2.82×10^{-4}	4.03
Cs ¹³⁷	ci	2.15×10^{-3}	9.98
Halogens			
I ¹³¹	ci	1.84×10^{-2}	3.4 x
I ¹³³	ci	2.98×10^{-3}	< 5.07
Gases (2)			

	Sept.	Oct.	Nov.	Dec.	
$\times 10^2$	2.75×10^2	4.12×10^2	1.13×10^3	1.14×10^3	
$\times 10^{-3}$	1.14×10^{-2}	3.20×10^{-2}	3.49×10^{-2}	3.68×10^{-2}	
$\times 10^{-1}$	7.58×10^{-2}	1.06×10^{-1}	2.80×10^{-1}	9.32×10^{-2}	
10^{-2}	1.45×10^{-1}	2.19×10^{-1}	3.85×10^{-1}	1.02×10^{-1}	
$\times 10^{-7}$	$\leq 3.46 \times 10^{-7}$	$\leq 3.45 \times 10^{-7}$	$\leq 1.33 \times 10^{-7}$	$\leq 3.26 \times 10^{-7}$	
$\times 10^3$	5.08×10^3	2.46×10^3	1.30×10^3	1.28×10^3	
24	7.97	4.59	2.00	1.97	
149	0.728	1.56	1.69	1.94	
25	0.610	0.871	0.658	0.520	
$\times 10^{-5}$	$\leq 5.50 \times 10^{-5}$	$\leq 1.82 \times 10^{-5}$	$\leq 3.49 \times 10^{-5}$	$\leq 3.26 \times 10^{-5}$	
$\times 10^{-3}$	1.54×10^{-4}	2.31×10^{-4}	1.49×10^{-4}	6.38×10^{-5}	
$\times 10^{-4}$	4.17×10^{-5}	1.07×10^{-4}	2.76×10^{-5}	$\leq 3.10 \times 10^{-5}$	
$\times 10^{-4}$	$\leq 2.91 \times 10^{-4}$	$\leq 1.11 \times 10^{-4}$	$\leq 1.20 \times 10^{-4}$	$\leq 4.37 \times 10^{-5}$	
$\times 10^{-1}$	7.52×10^{-2}	1.06×10^{-1}	2.8×10^{-1}	9.3×10^{-2}	
$\times 10^{-5}$	$\leq 8.00 \times 10^{-6}$	$\leq 8.36 \times 10^{-6}$	$\leq 2.92 \times 10^{-6}$	$\leq 7.61 \times 10^{-6}$	
$\times 10^{-6}$	$\leq 1.10 \times 10^{-6}$	$\leq 1.02 \times 10^{-6}$	$\leq 3.46 \times 10^{-7}$	$\leq 1.43 \times 10^{-6}$	
$\times 10^{-4}$	3.28×10^{-5}	1.08×10^{-4}	1.17×10^{-4}	2.71×10^{-5}	
$\times 10^{-4}$	6.94×10^{-5}	9.54×10^{-5}	2.40×10^{-5}	5.38×10^{-5}	
10^{-3}	1.12×10^{-2}	3.19×10^{-2}	3.29×10^{-2}	3.64×10^{-2}	
$\times 10^{-4}$	$\leq 1.68 \times 10^{-4}$	1.69×10^{-4}	1.97×10^{-3}	4.00×10^{-4}	

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD: July 1, 1975 - September 30, 1975

STABILITY CLASS: A (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	≥24	
N	18	40	10	0	0	0	68
NNE	15	6	1	0	0	0	22
NE	10	0	1	0	0	0	11
ENE	1	3	0	0	0	0	4
E	2	4	0	0	0	0	6
ESE	2	4	0	0	0	0	6
SE	3	8	0	0	0	0	11
SSE	6	29	14	0	0	1	50
S	26	56	11	0	0	6	99
SSW	7	10	1	0	0	1	19
SW	5	5	0	0	0	0	10
WSW	1	1	0	0	0	0	2
W	17	9	6	0	0	0	32
WNW	3	15	24	0	0	0	42
NW	6	14	29	1	0	0	50
NNW	7	26	19	0	0	0	52
VARIABLE	34	2	0	0	0	5	41
Total	163	232	116	1	0	13	525
Periods of calm (hours):	5						
Hours of missing data:	2						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD: July 1, 1975 - September 30, 1975

STABILITY CLASS: B (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	≥24	
N	3	0	6	0	0	0	9
NNE	3	0	2	0	0	0	5
NE	2	1	0	0	0	0	3
ENE	0	0	0	0	0	0	0
E	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	2	1	0	0	0	0	3
SSE	3	4	3	0	0	0	10
S	5	8	2	0	0	0	15
SSW	2	1	1	0	0	0	4
SW	2	2	0	0	0	0	4
WSW	1	0	0	0	0	0	1
W	2	1	1	0	0	0	4
WNW	0	2	2	0	0	0	4
NW	0	3	3	0	0	0	6
NNW	0	0	0	1	0	0	1
VARIABLE	3	0	0	0	0	0	3
Total	29	23	20	1	0	0	73
Periods of calm (hours):	3						
Hours of missing data:	0						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION^a

PERIOD OF RECORD: July 1, 1975- September 30, 1975

STABILITY CLASS: C (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	7	0	4	0	0	0	11
NNE	2	4	2	0	0	0	8
NE	3	0	0	0	0	0	3
ENE	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	2	1	0	0	0	0	3
SSE	2	1	2	0	0	1	6
S	8	11	1	0	0	0	20
SSW	2	0	0	0	0	1	3
SW	0	1	0	0	0	0	1
WSW	1	0	0	0	0	0	1
W	1	0	0	0	0	0	1
WNW	0	2	0	0	0	0	2
NW	0	0	0	0	0	0	0
NNW	0	0	1	1	0	0	2
VARIABLE	6	1	0	0	0	1	8
Total	35	21	10	1	0	3	70
Periods of calm (hours):	6						
Hours of missing data:	1						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION^a

PERIOD OF RECORD: July 1, 1975 - September 30, 1975

STABILITY CLASS: D (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	≥24	
N	11	19	22	0	0	0	52
NNE	43	40	5	0	0	1	89
NE	23	3	0	0	0	0	26
ENE	5	1	0	0	0	0	6
E	9	0	0	0	0	0	9
ESE	8	1	0	0	0	0	9
SE	23	1	0	0	0	0	26
SSE	28	20	5	0	0	0	53
S	23	36	23	1	0	0	83
SSW	19	18	2	0	0	2	41
SW	8	7	1	0	0	0	16
WSW	0	1	0	0	0	0	1
W	5	2	1	0	0	0	8
WNW	1	4	8	0	0	0	13
NW	0	3	10	1	0	0	14
NNW	0	12	5	0	0	0	17
VARIABLE	25	1	0	0	0	0	26
Total	231	171	82	2	0	3	489
Periods of calm (hours):	19						
Hours of missing data:	0						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD: July 1, 1975 - September 30, 1975

STABILITY CLASS: E (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	12	24	4	0	0	1	41
NNE	78	46	0	0	0	1	125
NE	44	10	0	0	0	1	55
ENE	2	0	0	0	0	0	2
E	3	0	0	0	0	0	3
ESE	2	0	0	0	0	0	2
SE	12	0	0	0	0	0	12
SSE	8	5	0	0	0	1	14
S	25	12	3	0	0	1	41
SSW	34	23	1	0	0	0	58
SW	27	4	0	0	0	1	32
WSW	4	1	0	0	0	0	5
W	6	7	0	0	0	0	13
WNW	2	12	4	0	0	0	18
NW	1	31	5	0	0	4	41
NNW	3	10	2	0	0	2	17
VARIABLE	51	0	0	0	0	2	53
Total	314	185	19	0	0	14	532
Periods of calm (hours):	30						
Hours of missing data:	0						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD: July 1, 1975 - September 30, 1975

STABILITY CLASS: F (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	≥ 24	
N	16	3	0	0	0	1	20
NNE	37	5	0	0	0	1	43
NE	28	5	0	0	0	0	33
ENE	5	0	0	0	0	0	5
E	0	0	0	0	0	0	0
ESE	3	0	0	0	0	0	3
SE	10	0	0	0	0	2	12
SSE	1	0	0	0	0	1	2
S	3	0	0	0	0	1	4
SSW	16	0	0	0	0	0	16
SW	18	0	0	0	0	0	18
WSW	3	0	0	0	0	0	3
W	2	1	0	0	0	1	4
WNW	4	3	0	0	0	0	7
NW	3	2	0	0	0	0	5
NNW	8	5	0	0	0	1	14
VARIABLE	35	0	0	0	0	2	37
Total	192	24	0	0	0	10	226
Periods of calm (hours):	15						
Hours of missing data:	2						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION^a

PERIOD OF RECORD: July 1, 1975 - September 30, 1975

STABILITY CLASS: G (Pasquill)

ELEVATION: 10 Meters

Wind Direction	0-3	4-7	8-12	13-17	18-24	25+	TOTAL
N	12	0	0	0	0	0	12
NNE	37	0	0	0	0	1	38
NE	26	0	0	0	0	0	26
ENE	0	0	0	0	0	0	0
E	3	0	0	0	0	0	3
ESE	1	0	0	0	0	0	1
SE	2	0	0	0	0	1	3
SSE	1	0	0	0	0	2	3
S	6	0	0	0	0	0	6
SSW	4	0	0	0	0	0	4
SW	5	0	0	0	0	0	5
WSW	4	0	0	0	0	0	4
W	4	0	0	0	0	0	4
WNW	5	0	0	0	0	0	5
NW	4	2	0	0	0	0	6
NNW	1	0	0	0	0	0	1
TOTAL	54	0	0	0	0	1	55
Wind Speed	169	2	0	0	0	5	176
Wind Speed		31					
Wind Speed		3					

^aIn the table record the hour number. It is a record of each category of wind direction for each atmospheric stability class. It is a record of each category of wind direction for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION³

PERIOD OF RECORD: October 1, 1975 - December 31, 1975

STABILITY CLASS: A (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-16	17-24	>24	
N	7	13	5	1	0	0	26
NNE	7	7	2	0	0	0	16
NE	4	1	0	0	0	0	5
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	1	5	3	0	0	0	9
S	3	7	2	0	0	0	12
SSW	3	5	2	0	0	0	10
SW	1	2	1	0	0	0	4
WSW	0	3	1	0	0	0	4
W	1	2	0	0	0	0	3
WNW	4	3	23	8	0	0	38
NW	2	4	4	5	0	0	15
NNW	2	7	9	1	0	0	19
VARIABLE	11	0	0	0	0	0	11
Total	46	59	52	15	0	0	172
Periods of calm (hours):	1						
Hours of missing data:	0						

³ In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD: October 1, 1975 - December 1975

STABILITY CLASS: B (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	≥25	
N	1	1	1	1	0	0	4
NNE	1	2	0	1	0	0	4
NE	2	0	0	0	0	0	2
ENE	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	2	0	0	0	0	2
SSW	0	2	1	0	0	0	3
SW	2	1	0	0	0	0	3
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	1	1	3	0	0	0	5
NW	0	2	2	1	0	0	5
NNW	0	2	0	0	0	0	2
VARIABLE	9	0	0	0	0	0	9
Total	17	13	7	3	0	0	40
Periods of calm (hours):	0						
Hours of missing data:	0						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD: October 1, 1975 - December 31, 1975

STABILITY CLASS: C (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	≥24	
N	2	0	0	1	0	0	3
NNE	1	1	0	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	1	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	3	0	0	0	0	3
S	3	1	0	0	0	0	4
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	2	0	1	0	0	0	3
WNW	1	0	4	2	0	0	7
NW	0	0	1	2	0	0	3
NNW	1	0	0	0	0	0	1
VARIABLE	2	0	0	0	0	0	2
Total	12	6	6	5	0	0	29
Periods of calm (hours):	0						
Hours of missing data:	0						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD: October 1, 1975 - December 31, 1975

STABILITY CLASS: D (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	≥24	
N	10	6	5	1	0	0	22
NNE	8	4	2	0	0	0	14
NE	3	1	0	0	0	0	4
ENE	3	0	0	0	0	0	3
E	1	0	0	0	0	0	1
ESE	0	1	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	4	3	2	0	0	0	9
S	8	5	0	0	0	0	13
SSW	2	4	1	0	0	0	7
SW	1	0	0	0	0	0	1
WSW	2	0	1	0	0	0	3
W	4	0	3	0	0	0	7
WNW	3	4	5	3	0	0	15
NW	1	6	14	2	0	0	23
NNW	3	2	3	3	0	0	11
VARIABLE	18	0	0	0	0	0	18
Total	71	36	36	9	0	0	152
Periods of calm (hours):	3						
Hours of missing data:	0						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION^a

PERIOD OF RECORD: October 1, 1975 - December 31, 1975

STABILITY CLASS: E (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind Speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	25-24	
N	40	70	24	3	0	0	137
NNE	153	106	22	0	0	0	281
NE	45	24	0	0	0	0	69
ENE	5	0	0	0	0	0	5
E	1	0	0	0	0	0	1
ESE	2	4	0	0	0	0	6
SE	3	1	0	0	0	0	4
SSE	19	8	4	0	0	0	31
S	25	33	7	0	0	0	65
SSW	12	23	2	0	0	0	37
SW	5	8	0	0	0	0	13
WSW	6	5	2	0	0	0	13
W	7	11	5	0	0	0	23
WNW	2	39	13	0	0	0	54
NW	6	83	36	1	0	0	126
NNW	8	54	21	2	0	0	85
VARIABLE	50	0	1	0	0	0	51
Total	389	469	137	6	0	0	1001
Periods of calm (hours):		13					
Hours of missing data:		0					

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar tables separately for each atmospheric stability class and elevation.

TABLE 4A

HOURS AT EACH WIND SPEED AND DIRECTION ^a

PERIOD OF RECORD: October 1, 1975 - December 31, 1975

STABILITY CLASS: F (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind speed (mph) at 10m Level						TOTAL
	1-3	4-7	8-12	13-18	19-24	>24	
N	18	8	0	0	0	0	26
NNE	59	29	0	0	0	0	88
NE	35	5	0	0	0	0	40
ENE	5	0	0	0	0	0	5
E	1	0	0	0	0	0	1
ESE	3	0	0	0	0	0	3
SE	11	0	0	0	0	0	11
SSE	10	2	0	0	0	0	12
S	28	20	0	0	0	0	48
SSW	10	9	0	0	0	0	19
SW	13	3	1	0	0	0	17
WSW	10	3	0	0	0	0	13
W	4	7	0	0	0	0	11
WNW	3	20	3	0	0	0	26
NW	0	22	3	0	0	0	25
NNW	6	21	1	0	0	0	28
VARIABLE	35	1	0	0	0	0	36
Total	251	150	8	0	0	0	409
Periods of calm (hours):	11						
Hours of missing data:	0						

^a In the table, record the total number of hours of each category of wind direction for each calendar quarter. Provide similar table separately for each atmospheric stability class and elevation.

TABLE 9A

HOURS AT EACH WIND SPEED AND DIRECTION^a

PERIOD OF RECORD: October 1, 1975 - December 31, 1975

STABILITY CLASS: G (Pasquill)

ELEVATION: 10 Meters

Wind Direction	Wind speed (mph) at 10m height						TOTAL
	1-3	4-7	8-12	13-16	17-24	25+	
N	9	3	0	0	0	0	12
NNE	61	8	0	0	0	0	69
NE	20	0	0	0	0	0	20
ENE	6	0	0	0	0	0	6
E	7	0	0	0	0	0	7
ESE	2	0	0	0	0	0	2
SE	6	0	0	0	0	0	6
SSE	13	0	0	0	0	0	13
S	37	8	0	0	0	0	45
SSW	21	3	0	0	0	0	24
SW	19	5	0	0	0	0	24
WSW	6	5	0	0	0	0	11
W	5	1	0	0	0	0	6
WNW	3	1	0	0	0	0	4
NW	5	0	0	0	0	0	5
NNW	0	2	0	0	0	0	2
Variable	76	0	0	0	0	0	76
Total	296	36	0	0	0	0	332
Hours with precipitation	45						
Hours with no wind	0						

^a In this table record the number of hours of each category of wind direction in each calendar quarter. Provide similar data separately for each atmospheric stability class and elevation.

TABLE 3

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (YEAR)
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

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

1. Type of waste	Unit	6-month Period	Est. Total Error, %
a. Spent resin, filter media, etc., evaporator bottoms, etc.	hr Ci	3.21E+2 1.26E+3	E
b. Dry compressible waste, contaminated equip., etc.	hr Ci	2.12E+1 3.52E+0	E
c. Irradiated components, control rods, etc.	hr Ci	E E	E
d. Other (describe)	hr Ci	E E	E

2. Estimate of major nuclide composition (by type of waste)

a. Mn ⁵⁴	hr	2.15E+0
Co ⁵⁸	hr	2.22E+1
Co ⁶⁰	hr	3.81E+0
Cs ¹³⁴	hr	2.85E+1
Cs ¹³⁷	hr	4.33E+1
b. Same as a. above	hr	E
c.	hr	E
	hr	E
d.	hr	E
	hr	E
	hr	E

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
38	McCormick Tri-State } Truck	Morehead, Kentucky

B. IRRADIATED FUEL SHIPMENTS (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
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