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GROUND LEVEL C-8 CONCENTRATIONS DOWNWIND OF
TEFLON® EXHAUST STACKS

As per our telephone conversation on 4/8/81, please determine eight-hour time-weighted average C-8 concentrations at various distances downwind of C-8 emission sources under the most detrimental weather conditions. Significant C-8 emission sources at Washington Works are as follows:

FEP BUILDING 163

- Wet finishing baghouse exhaust
- Coagulator baghouse exhaust

(These sources are approximately 53 feet apart -- see attached map.)

TFE - BUILDING 162

- No. 2 fine powder dryer exhaust
- No. 3 fine powder dryer exhaust

(These sources are approximately 42 feet apart -- see attached map. FEP sources are approximately 555 feet west of TFE sources.)

The data you requested are included in Table 1. Notice that for the TFE C-8 sources, 3 separate sets of conditions will exist at various times. Therefore, calculations should be made for each set of conditions. If any additional information is needed, please call me (863-4358).

Joseph G. Loschiavo
Joseph G. Loschiavo

Attachment

JGL/nsw

There's a world of things we're doing something about

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TABLE I

C-8 EMISSION SOURCES - WASHINGTON WORKS

	FEP		TTE - After May Shutdown		TTE - After High Solids Prod.		TTE - After High Solids & Higher Air Flow	
	Wet Finishing	Coagulator	No. 2 Dryer	No. 3 Dryer	No. 2 Dryer	No. 3 Dryer	No. 2 Dryer	No. 3 Dryer
Elevation Of Stack (Above Grade)	55' 0"	40' 10"	77' 10"	77' 10"	77' 10"	77' 10"	77' 10"	77' 10"
Stack Diameter	12"	10"	19 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"
Air Velocity (fpm)	1,091	3,183	2,900	2,900	2,900	2,900	3,865	3,865
Quantity Of Airflow (cfm)	2,500	600	6,000	6,000	6,000	6,000	8,000	8,000
C-8 Concentration (ppm By Volume)	0.042	0.014	3.0	3.5	8.5	9.7	6.4	7.3
Exhaust Air Temperature (°C)	28	28	84	84	84	84	84	84

JGL
4/21/81

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