

March 27, 1968

Mr. J. W. McMillan
Works Manager
Pittsburgh Corning Co.
Tyler, Texas 75701

Dear Mr. McMillan:

The analysis of the air samples collected in your plant during our survey in March 1967 has been completed, and the results are attached. The impinger samples were counted during the survey using the American Conference of Governmental Industrial Hygienists' method. The membrane filters were rendered transparent with a 50-50 mixture of diethyl oxalate, dimethyl phthalate and counted at 430X magnification with phase contrast illumination.

The dust concentrations as measured by impinger exceeded the 5 million particles per cubic foot Threshold Limit Value currently in use, in a number of locations. The membrane filter method is experimental and no standard has been set for its interpretation in this country. (The British Occupational Hygiene Society has issued "Hygiene Standards for Chrysotile Asbestos Dust" for the 5 μ + fiber counts in fibers/cc as follows: Negligible, Less than 0.5; Low, 0.5-2.0; Medium, 2.0-10.0; High, More than 10.0. They also recommend that "When it is necessary to work in a 'high dust' area an approved mask should be worn," The standards are for three-month averages.) Some relationships between the impinger and filter measurement, and some results of surveys of other asbestos product areas, are discussed in the enclosed reprints.

Your cooperation in this study is sincerely appreciated and the data gained from your plant is of considerable value.

Sincerely yours,

Jeremiah R. Lynch
Asst. Chief, Environmental
Activities
Field Studies
Occupational Health Program

Enclosure

cc: Dr. Lee Grant

Results of Air Samples of March 1967

Pittsburgh Corning, Tyler, Texas

Operation		<u>Impinger</u>		<u>Membrane Filter</u>		
		<u>Sample #</u>	<u>WSPF</u>	<u>Sample #</u>	<u>Fibers/cc</u>	<u>Total 5 μ +</u>
<u>Mixing</u>						
<u>Feeder Man</u>	B	200	8.8	201	608.78	255.56
		212	51.4	213	491.44	255.77
		214	13.5	215	451.46	216.73
	P			7	613.39	336.61
				9		
				28		
				109	240.5	115.6
				114	280.23	200.57
<u>Scrap Grinder</u>	B	202	9.1	203	7.8	3.9
		210		211	18.4	8.2
		216	6.8	217	178.13	71.08
	P			8	75.5	45.3
				33	266.4	119.0
	G	117	4.9			
		102	2.2			
		105	7.8			
<u>Forming</u>						
<u>Builder</u>	B	204	4.7	205	92.9	53.4
		230	3.3	229	177.3	49.9
		228	2.9	227	61.6	21.8
		219	4.0	218	39.3	15.3
		217	1.2	216	11.9	7.2
		209	4.7	208	11.5	7.6
		26	1.4	27	78.6	20.3
		24	2.4	25	26.7	15.2

NOTES:

B - Breathing zone simultaneous impinger-membrane filter samples.

P - Personal membrane filter samples collected by a sampling pump worn by the worker.

G - General Air samples.

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Operation		Impinger		Membrane Filter		
		Sample #	mpcf	Sample #	Fibers/cc	Total 5 m +
Forming Builder	P			1	35.5	15.4
				2	54.7	22.5
				3	26.0	12.8
				5	10.1	5.5
				10	44.5	21.4
				11	30.6	14.7
				29	78.6	20.3
				30	26.4	10.1
				32	77.2	45.9
				36	41.2	26.9
				38	51.8	21.0
				39	31.7	11.1
				106	88.8	30.4
				107	87.8	60.5
				108	134.65	66.35
				111	87.1	48.0
				112	92.4	48.3
				113	267.51	117.37
	G	120	4.7			
Curing Oven Man	B	332	0.1	331	.8	.8
	P			37	6.0	2.
<u>Finishing</u> <u>Saw Operator</u>	B	313	10.9	312	260.5	140.6
	P			19		
Nob Catcher	B	311	1.6	310	199.9	67.2
	P			13	121.0	72.3
Saw Feeder	B	334	2.6	333	69.2	37.8
		336	2.0	335	38.4	20.1
		206	2.4	207	74.0	46.4
	P			18	84.0	51.6

used
exposed

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Operation		Impinger		Membrane Filter		
		Sample #	mpcf	Sample #	Total	Fibers/cc
Finishing						
Lift Truck Driver	P			6	70.8	28.8
	G	123	1.9			
Packing						
Packer	B	208	2.5	209	101.7	27.9
		338	45.5	337		
	P			16		
Box Maker	P			14	10.7	4.7
Weigher	P			22	40.2	20.1
				23	28.2	7.0
Sealer	B	315	2.1	314	69.2	31.0
	P			17	24.8	13.2
Material Handler	P			21	27.4	10.0
Fork Lift Operator	P			110	11.2	9.0

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