RESULTS OF AIR SAMPLES

H.K. Porter
Huntington, Indiana

Report Prepared By:
Clinton V. Oster, Jr.

IWS-32,37d

December, 1969

1014 Broadway
Cincinnati, Ohio 45202

December 11, 1969

Mr. Thomas Bell
Works Manager
H.K. Porter Company
Huntington, Indiana 46758

Dear Mr. Bell:

The analysis of the air samples collected in your plant on September 30 and October 1, 1969 has been completed. The results of this resurvey are attached. The impinger samples were counted by the standard light-field count technique. The membrane filters were counted by 430X phase contrast magnification. These methods are recommended by the American Conference of Governmental Industrial Hygienists (ACGIH).

The ACGIH has included asbestos on the 1969 list of intended changes in recommended Threshold Limit Values (TLV). These values are 12 fibers >5μ per cc or 2 million particles per cubic foot. Most of the dust concentrations measured were below the propsed TLV although those values were exceeded in a few locations. Samples 086 and 065 in the cutting and drilling operations met or exceeded the proposed TLV. Sample 072 in the forming operation also exceeded the proposed TLV. The personal samples taken in the mixing room were too dusty to count accurately. It is reasonable to suspect that the dust concentrations here exceed the proposed TLV.

We would like to thank you for the corporation we received in your plant. The data gathered there will be of considerable value in our study.

Sincerely yours

Clinton V. Oster, Jr.
Assistant Sanitary Engineer
Field Studies Branch
Bureau of Occupational Safety
and Health

Attachment
cc: Ind. State Dept. of Health & Regional Representative

Results of Air Samples of September 1969
H.K. Porter, Huntington, Indiana

Operation	Type of Sample	Nature	Sample #	mppcf	Fibers >5μ per cc
Mixing, Coating	Impinger	General	040	.42	
Extruding	Impinger	Breathing Zone	085	.52	
	Filter	General	013		1.3
	Filter	General	016		4.1
	Filter	General	038		3.3
	Filter	Personal	069		*
	Filter	Personal	071		*
Forming	Filter	Personal	056		0.8
	Filter	Personal	057		1.3
	Filter	Personal	072		16.1
Hot Forming	Filter	Personal	012		3.6
	Filter	Personal	032		1.1
	Filter	Personal	033		1.8
Grinding and	Impinger	General	049	.30	
Sanding	Impinger	Breathing Zone	020	.34	
	Impinger	Breathing Zone	087	1.20	
	Filter	General	045		0.5
	Filter	General	046		0.2
	Filter	General	048		0.4
	Filter	Personal	005		5.7
	Filter	Personal	010		7.0
	Filter	Personal	011		3.1
	Filter	Personal	062		9.1
Cutting and	Impinger	Breathing Zone	086	2.00	
Drilling	Impinger	Breathing Zone	021	.61	
	Filter	Personal	065		14.4
Imspection and	Impinger	Breathing Zone	090	.76	
Packing	Impinger	Breathing Zone	091	.36	
	Filter	Personal	009		5.3
	Filter	Personal	064		3.4
	Filter	Personal	067		2.2
Miscellanous	Impinger	General	017	.11	
	Filter	Personal	005		1.5
	Filter	Personal	052		0.6
	Filter	Personal	070		0.3

* Filter was too dusty for accurate counting

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Oster, C. V.

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9. Performing Organization Name and Address

NIOSH, Industrial Hygiene Section, Industry-wide Studies Branch, Division of Surveillance, Hazard Evaluation and Field Studies, Cincinnati, Ohio

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14. NA

15. Supplementary Notes

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16. Abstract (Limit: 200 words)

Air sampling for asbestos (1332214) dust was performed at the H.K. Porter Company (SIC-3292) in Huntington, Indiana, on September 30 and October 1, 1969. General air samples collected with an impinger contained 0.11 to 2.00 million particles per cubic foot (mppcf) of asbestos dust at the cutting and drilling area. Impinger breathing zone samples ranged from 0.20 to 0.91mppcf. General air samples collected with a membrane filter contained 0.13 to 0.48 fibers greater than 5 microns in length per cubic centimeter (f/cc), while membrane filter samples for personal breathing areas ranged from 0.03 to 0.72f/cc.

17. Document Analysis a. Descriptors

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