



August 16, 1949

Mr. A. J. Sluyter
Loss Control Department
Johnson & Higgins
63 Wall Street
New York 5, New York

Dear Mr. Sluyter:

Attached hereto you will find a copy of the
report of dust counts at Plant 2 on
August 2.

Very truly yours,

(Mrs.) Gertrude C. Brice
Plant Nurse

geb

attachment

See attached

121

R. Higgins
New York
Philadelphia
Buffalo
Cincinnati
Chicago
Havana
Pittsburgh

JOHNSON & HIGGINS

Established 1845

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63 WALL ST., NEW YORK 6
TELEPHONE WHITELALL 4-8100

August 19, 1949

Mrs. Gertrude C. Brice
Algoma Plywood & Veneer Company
Algoma, Wisconsin

Dear Mrs. Brice:

Thank you very much for your letter of August 16th outlining the results of the dust counts made in plant #2 on August 2nd.

It would appear from these analysis that the various exhaust points on the machines are operating very efficiently. I think it is rather odd that no attempt has been made to evaluate the particle size. Undoubtedly the Department feels that this data would be superfluous in view of the extremely low counts.

Thank you very much for the opportunity of reviewing this data.

Very truly yours,

JOHNSON & HIGGINS

By: *A. J. Sluyter*
Loss Control Dept.

AJ SLUYTER:mm

AJ

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New York

Algonia

Aug. 16, 1949

Mr. C. P. Setter

Asbestos Dust Counts

Attached hereto is a copy of the report on the
most recent dust counts in the Dale department.

Plant Nurse

July 20, 1949

Dr. Allan Filek, Director
Industrial Hygiene Unit
State Board of Health
1 West Wilson Street
Madison, Wisconsin

Dear Sir:

We would like a count made of the asbestos dust concentrations in our Kalo manufacturing plant at your convenience. Mr. William Fluck made a survey here July 29 of last year and our insurance carrier requests a repeat count at this time.

Your attention is appreciated.

Very truly yours,

(Mrs.) Gertrude C. Brice
Plant Nurse

geb



The State of Wisconsin

WISCONSIN STATE BOARD OF HEALTH

INDUSTRIAL HYGIENE DIVISION

STATE OFFICE BUILDING

1 WEST WILSON STREET

MADISON 2

August 10, 1949

Handwritten:
L. H. C. 11/1
H. H. C. 11/1
H. H. C. 11/1
H. H. C. 11/1

Handwritten:
The files - check this:
1 - Hunter - John Higgins
1 - Cliff - [unclear]
1 - Our file (original) of? [unclear]

Mr. G. R. Mercer
Superintendent
Algoma Plywood & Veneer Co.
Algoma, Wisconsin

Dear Mr. Mercer:

Enclosed are three copies of the report of dust counts made in your Kaylo department on August 2.

We were pleased to find all of the counts to be very low, indicating excellent design and maintenance of your dust exhaust system.

It is difficult to set an accurate MAC (maximum allowable concentration) for the dust liberated into the air at your various Kaylo processing machines. An analysis of dust from the dust collector was analyzed by the laboratory of the U. S. Public Health Service and was found to contain 13% free silica and 5 to 12% asbestos. As both of these materials have about the same degree of toxicity, an MAC of 20.0 million would be permissible, assuming the dust breathed by the men to be the same as that caught in the dust collector. Experiments by a great number of investigators over the past years have shown that dust at the breathing level of the workers often has a different analysis than dust caught in the collector. The explanation is a matter of particle size — certain parts of the raw material break up more readily than others and result in different analyses for different size fractions of dust.

All that we can say, with any reasonable degree of certainty, is that the MAC for Kaylo dust would very likely be somewhere between 5.0 and 20.0 million particles per cubic foot. Fortunately, dust counts at your Kaylo processing machines have been so low that an exact MAC is not too necessary.

I believe that Mr. Blahnik might like to have a copy of the report for his records so I have sent along an extra copy in case you care to give it to him.

Sincerely yours,

Handwritten: William Z. Fluck
William Z. Fluck
Engineer

WZF:mjk
Encl

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The State of Wisconsin

WISCONSIN STATE BOARD OF HEALTH

INDUSTRIAL HYGIENE UNIT

STATE OFFICE BUILDING

1 WEST WILSON STREET

MADISON 2

KAYLO DUST SURVEY

Plant: Algoma Plywood & Veneer Company

Location: Algoma, Wisconsin

Date of Survey: August 2, 1949

Routine dust counts were made at the breathing level of operators of various machines processing Kaylo. Results of the dust counts are listed in the following table:

Sample Number	Description	Dust Count MPCF*
1	Portable saw — third floor	0.7
2	Pay and Egan double cut-off saw	1.4
3	Single cut-off saw — machine #21-50	1.3
4	Mattison rip saw — feed end	1.7
5	Mattison rip saw — discharge end	1.6
6	Jenkins saw — feed end	2.6
7	Jenkins saw — discharge end	1.1
8	Drum sander — feed end	1.3
9	Drum sander — discharge end	1.1
10	Jointer — machine #21-59	0.8

*MPCF = Millions of particles per cubic foot of air.

Maximum allowable concentration (MAC) for asbestos dust = 5.0 MPCF.

SUMMARY

All atmospheric concentrations of dust were well below the MAC for asbestos dust of 5.0 million particles.

INDUSTRIAL HYGIENE DIVISION

William E. Fluck
Engineer

WZF:mjk
8/11/49