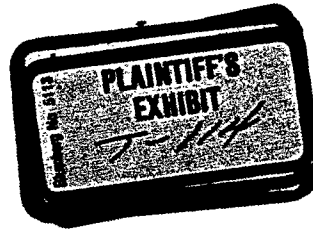


THE HYGIENE FOUNDATION OF AMERICA, INC.

4400 FIFTH AVENUE

PITTSBURGH 15, P

July 11, 1947



Memorandum on General Asbestos and Rubber Plant of

Raybestos-Manhattan, Inc.

Supplementing The

General Report

"Preliminary Dust Investigation For Asbestos Textile Institute"

Of June, 1947

Dustiness

This plant is designated in the general report as B.

The samples taken by us were all lower than one million, but since they were single samples and differed considerably from other data in company files we did not give them full weight in estimating the average range given in column D of Table 1 (page 3 of general report).

The company's dust count record indicates the longest period of low dustiness in the industry.

In spite of the span of years covered, the number of individual dust counts is much too small to constitute an adequate record. Management indicates that a re-survey was to be made after certain process changes were effected. However, it is our opinion that present concentrations are very

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Brown
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Memorandum on General Activities and Rubber Plant of Kayser-Frazer
 Washington, Inc., Supplementing the General Report "Preliminary
 Dust Investigation for Kayser-Frazer Textile Institute" of June, 1947.

Los and we would advise that arrangements be made with Dr. Fehnel for a
 thoroughly complete survey without waiting for such changes. A liberal
 number of samples in each operation is required to establish average
 figures.

Dust counts made by us are as follows:

Number	Elapsed Time (Min.)	Location	Dust Count
1	10	General air near take-off end of <u>card</u> , 1 machine distant from Foreman's office.	0.2
2	10	In breathing zone of <u>style planner</u> opera- tor following his curling machine.	0.4
3	10	In breathing zone of operator of <u>Parter</u> <u>riper</u> . (About 1/4 of dust branches closed by combing.)	0.4
4	10	General air, taken while following with- in 6 to 7 feet of operator of <u>ring</u> <u>extruder</u> frame.	0.5
5	10	General air in vicinity of 1 exhausted <u>loose</u> (dry).	0.6
6	10	In breathing zone of operator of one <u>loose</u> .	0.3
7	10	General air, taken while picking up and down holes of <u>rotator</u> . Exhausted.	0.9
8	10	Same as No. 7, but exhaust system shut off.	1.8

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Memorandum on General Asbestos and Rubber Plant of Asbestos-
Ranhampton, Inc., Supplementing the General Report "Preliminary
Dust Investigation for Asbestos Textile Institute" of June, 1947.

Dust Control Practices

It is suspected that the unique fiber treatment in the preparation process may do much to reduce dustiness in subsequent textile operations. The tests described under "Inherent Dustiness of Stock" (page 26, general report) would illuminate this point when fully developed.

Carding

In the tabulation of card exhaust rates (page 8, general report) this plant has, we believe, somewhat better control than Plant 1 requiring about 30 per cent greater air flow per machine.

All of the eight good features listed on page 9 were observed on these cards.

We are of the opinion that the 2 inch ducts arranged to exhaust the space between ring rollers and main cylinder is not fully effective due to rapid plugging, but are convinced that the objective is worthwhile. The plugging is caused by ineffective distribution of planned air flow which, in turn, is the result of gross differences in friction loss between the small diameter and larger diameter branches (referred to under "Dust Flow," top page 12).

Isolator

There is some indication from dust count rate of value in the existing exhaust system but the data are fragmentary and inconclusive. We would like to see several "on and off" tests made alternately on some day for confirmation.

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Memorandum on General Asbestos and Rubber Plant of Raybestos-
Kamhattan, Inc., Supplementing the General Report "Preliminary
Dust Investigation for Asbestos Textile Institute" of June, 1947.

Medical

This plant is one of those without adequate information as to the incidence (or absence) of asbestosis and we strongly recommend the institution of a system of medical supervision as indicated in this section of the general report.

The last paragraph on page 20 of the general report refers in part to this company. The information that could be gained from a statistical study of the incidence of asbestosis as related to working history in a plant with this record would be of very great value.

F.C.B. Henson
Head Engineer

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