FILE NAME: Asten Hill (AH)

DATE: 1950

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Commonwealth of Pennsylvania

Department of Health

McCORMACK #3

BUREAU OF INDUSTRIAL HYGIENE

Joseph Shilen, M. D.
Director

Report

of

SURVEY

Asten-Hill Manufacturing Company
Henry & Roberts Avenues
Philadelphia, Pennsylvania

Prepared for:
Mr. John McCormick
Asten-Hill Mfg., Co.

PLAINTIFF'S EXHIBIT
SF 581

#3

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF HEALTH
HARRISBURG

June 19, 1950

Mr. John McCormick
Asten-Hill Mfg., Co.
Henry & Roberts Ave.
Philadelphia, Pennsylvania

Dear Mr. McCormick:

Submitted herewith is the report of survey made recently at your plant by personnel of this Bureau.

Thank you for your cooperation in making this study. The services of this Bureau are available to you at all times.

Very truly yours,

Joseph Shilen, M.D.

Joseph Shilen, M.D., Director
Bureau of Industrial Hygiene

AHD 0000592

Commonwealth of Pennsylvania
Department of Health

# BUREAU OF INDUSTRIAL HYGIENE

## Report of Survey

Asten-Hill Manufacturing Company
Henry & Roberts Avenues
Philadelphia, Pennsylvania

At the request of the management of the above-named company, a survey was made during June 1950 to determine the efficiency of their dust collecting system.

## RECOMMENDATIONS

None.

## DETAILED FINDINGS

The company was engaged in the manufacture of asbestos products and the dust collecting system was installed to remove the dust and fly arising from the carding and other operations peculiar to this type of industry. The dust-laden air is passed through a Pangborn unit, a Precipitron, and then water spray before being conditioned and recirculated.

Since the company was desirous of ascertaining if the system was effective, atmosphere samples were taken at such places as would give an indication of the functioning of the system. From the accompanying table it can be seen that the dust concentration in the general atmosphere in the finishing room is much lower than that in the atmosphere of the carding room. The percentage efficiency of the system can be estimated from the dust concentrations found in the main duct leading to the Pangborn unit and the dust concentrations found at the end of the system (between the spray and fan). This efficiency is approximately 99%, which is very high and shows that such a system is extremely effective in removing dust of microscopic size. /

In the near future, a survey will be made of the entire plant to determine the dust concentrations in the atmosphere of the working areas.

Commonwealth of Pennsylvania
Department of Health
BUREAU OF INDUSTRIAL HYGIENE

Table 1

## Dust Concentrations

Asten-Hill Manufacturing Company
Henry & Roberts Avenues
Philadelphia, Pennsylvania

| Sampling location | Dust concentration (millions of particles per ) cubic foot of air |
|---|---|
| General atmosphere in carding room | 4.6<br>2.1<br>2.7<br>2.7 |
| Between Pangborn unit and Precipitron | 0.3<br>0.8<br>0.6 |
| Between Precipitron and water spray | 0.7<br>0.3<br>1.2 |
| Between water spray and fan | 1.1<br>1.4<br>0.9 |
| Finishing room, general atmosphere | 1.8<br>2.1<br>1.4 |
| Carding machine, near hood | 9.9 |
| Picker, near hood | 10.1 |
| Main duct to Pangborn unit | 251.2<br>198.4 |

Survey by:

Frank J. Willard, Jr.
Industrial Hygienist

M. H. Green
Chemist

W. H. Taylor
Jr. Industrial Hygienist

June 19, 1950
PCH/s

AHD 0000594