PLAINTIFF'S EXHIBIT
K-1185

MINUTES

of the

HEALTH AND SAFETY COMMITTEE

National Insulation Manufacturers Association
New York, New York July 23, 1968

The meeting was called to order with the following in attendance:

Mr. F. H. Edwards	Owens-Corning Fiberglas
Dr. J. L. Konzen	Owens-Corning Fiberglas
Mr. R. Kahn	Baldwin-Ehret-Hill
Mr. W. Guber	Gustin Bacon
Dr. L. B. Grant	PPG Industries

JOINT MEETING WITH DUCT COMMITTEE

The Health and Safety Committee was invited to jointly meet with the Duct Committee to discuss environmental studies of installed fiber glass duct liners and systems to determine to what degree, if any, they produced fiber glass in air of respirable size through fiber glass erosion. This is a continuation of the fiber glass duct erosion studies recently completed by Kettering Laboratory under laboratory conditions. The various factors such as density of insulation, linear air velocity in duct, length of time since installation, quality of installers' workmanship and many others were discussed.

The Health and Safety Committee studied these various factors and developed a study proposal which would permit an evaluation of duct erosion under conditions which might yield, on the one hand, the greatest degree of erosion and, on the other, the least degree of erosion. This proposal was submitted to the Duct Committee for their approval which was obtained. The proposal is set forth in Attachment #1. The Duct Committee will select, using the criteria set forth in the proposal, the five sites where the environmental studies will be accomplished. They will notify the Health and Safety Committee by August 1, 1968, who will then request Kettering Laboratory to submit a study proposal for consideration by both committees.

PROGRESS REPORTS

Progress reports were made by Dr. Jon L. Konzen on the following:

1. United States Public Health Service Fiber Glass Industry Study
2. Industrial Hygiene Foundation Fiber Glass Studies.

Copies of the above reports are attached.

REVIEW OF DRAFT OF TEXT FOR THE NIMA NEWS

On June 3, Mr. Ambrose M. Walsh requested our committee to review a draft text he had prepared relating to activities of our committee. On June 10, I sent this draft text to all our committee for their review and comments with a request to forward their comments to Mr. Walsh, hoping that doing so would facilitate consideration of this matter. The nature of the comments were such that final implementation of the review had to await our committee meeting. It was decided that publication in the NIMA NEWS of our committee's activities was desirable and at an early date. In discussing the various comments which had been made by members of our committee, it was agreed that Dr. Konzen's recommendations as made in the attached letter were acceptable to those present and Mr. Walsh, who was also present, was so advised and urged to begin publication at the earliest date incorporating all of Dr. Konzen's recommendations into his final text.

OCCUPATIONAL EXPOSURES DURING THE INSTALLATION OF FIBROUS GLASS INSULATING MATERIALS - Research Proposal

In the January issue of the Journal of Occupational Medicine, J. Leroy Balzer, M.S., an associate of W. Clark Cooper, M.D., School of Public Health, University of California in Berkeley, had an article published entitled "Industrial Hygiene For Insulation Workers." It quantitated the asbestos exposures of the insulation worker but did not similarly quantitate the fiber glass exposures to these same workers, although it did point out that fiber glass made up almost half of the insulation being used. Dr. Cooper was asked to prepare a proposal for the Health and Safety Committee's consideration for quantitating the fiber glass exposures of the insulation workers. The proposal was received and distributed to the Health and Safety Committee members for their review prior to this meeting. At the meeting, it was the unanimous opinion of the committee that it should be proposed to the NIMA Board to recommend that those NIMA member companies in fiber glass manufacturing sponsor the proposed research as a NIMA project which is vital to their interests. The research proposal is attached.

NEW COMMITTEE MEMBER

A new member of the committee is Mr. Walter Gubar of Gustin Bacon Manufacturing Company - Division of Certain-Teed Products - 2920 Fairfax Road - Kansas City, Kansas 66115.

The business having been completed, the meeting was adjourned.

Lee B. Grant, M.D.

HEALTH AND SAFETY COMMITTEE PROPOSAL - ENVIRONMENTAL STUDY TO DETERMINE THE DEGREE, IF ANY, OF FIBER GLASS IN AIR CONCENTRATIONS RESULTING FROM FIBER GLASS EROSION TAKING PLACE IN INSTALLED FIBER GLASS DUCT LINER AND DUCT SYSTEMS.

I. GENERAL

This is a follow-on study to the duct erosion study recently performed by the Kettering Laboratory under laboratory conditions. The various factors which might affect fiber glass duct erosion were considered. The environmental study was to determine, if possible, quantitative differences in fiber glass erosion between installed systems which would produce the greatest and the least fiber glass erosion and the amount of respirable fiber glass in air produced by each.

II. CRITERIA FOR TEST SITE SELECTION

Test site selection will be accomplished by the Duct Committee using the following general and specific criteria:

A. General Criteria

Since it was the purpose of the investigation to determine erosion effect on fiber glass coming into contact with the duct air stream, it was decided only to consider uncoated systems and systems in which there was not an electrostatic precipitator filter system incorporated. Also, it was felt desirable to include a steel duct system as a control.

B. Specific Criteria

1. Steel Duct Site

A site which has an installation five or more years old with a duct velocity of 2000 linear feet per minute or less will be selected.

2. Duct System Sites

a. A site anticipated to favor duct erosion will be selected. This installation will be five or more years old, low density insulation will have been used, and the duct air velocity will be 2000 linear feet per minute or more.

b. A site anticipated not to favor duct erosion will be selected. This installation will be six months to one year old, high density insulation will have been used, and the duct air velocity will be 1500 linear feet per minute or less.

3. Duct Liners Sites

Two sites will be selected using the criteria as set forth for duct system sites above.

Attachment #1