FILE NAME: Johns-Manville (JMA)

DATE: 1963-1967

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7519

MINUTES
OF THE

OCCUPATIONAL HEALTH & SAFETY COMMITTEE MEETING
NATIONAL INSULATION MANUFACTURERS ASSOCIATION

Pittsburgh, Pennsylvania October 10, 1967

The meeting was called to order on October 10, 1967, at 11:30 A.M. at Chatham Center in Pittsburgh with the following persons present.

Members:	Dr. L. B. Grant	PPG Industries
	Mr. C. L. Sheckler	Johns-Manville
	Mr. F. H. Edwards	Owens Corning
	Mr. L. D. Horowitz	Certainteed Products
Guests:	Mr. J. Vyverberg	Owens Corning
	Dr. Bishop	Owens Corning
	Mr. E. Fedder	Johns-Manville

This meeting was held in conjunction with the official luncheon at the Annual Industrial Hygiene Foundation Meeting.

Mr. Sheckler reported a bad press in New Jersey in regard to the relationship of asbestos exposure and mesothelioma. In his opinion, this had made it even more urgent for his Education Subcommittee to develop the second round Educational Program for the IDCNA. As part of this program, a pamphlet is being prepared on the safe handling of insulation materials. Target dates given by Mr. Sheckler for the Education Subcommittee's activities included a February 1, 1968 consideration of the entire program by the Occupational Health & Safety Committee. The final program must be ready for presentation at the Regional IDCNA meetings by April 1, 1968. On the subject of possible recommendations in regard to pre-employment and periodic medical examinations for the insulation workers, Mr. Sheckler requested that Dr. Grant provide his Subcommittee with a recommendation in regard to examination content.

Mr. Sheckler reported his meeting with Dr. I. J. Selikoff at which time he briefly discussed the NIMA Educational Program. Dr. Grant reiterated his previously expressed opinion that the Committee coordinate the Educational Program in preparation with Dr. W. C. Cooper to minimize so far as possible conflicting advice being provided by our group and Dr. Cooper's group.

While at the time of meeting no information was available in regard to the present status of the U. S. Public Health Service mineral fiber industry study, Dr. Grant briefly met with Dr. Lewis Cralley of the U. S. Public Health Service following the meeting. Dr. Cralley indicated he would be contacting various member industries in NIMA to establish the cohorts for the U.S.P.H.S. Records Study of the mineral fiber industry.

The question of establishing another Subcommittee of the Occupational Health & Safety Committee was raised by Mr. Sheckler. The purpose of this Subcommittee would be to respond quickly to inquiries or problems directed to the

Occupational Health & Safety Committee. Following a discussion it was decided that formation of the Subcommittee would be postponed until some experience had been gained relative to the nature of the present problems. To date, no problems of the sort envisioned by Mr. Sheckler have come to the attention of this Committee.

There being no further business, the meeting was adjourned.

Respectfully submitted,

L. B. Grant, M. D.

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NIMA

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Vice President	P. D. Kaley	Pittsburgh Plate Glass Co.
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J. F. Vyverberg	Owens-Corning Fiberglas Corp.
M. M. Wilson	Baldwin-Ehret-Hill Inc.

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P. D. Kaley	Pittsburgh Plate Glass Co.
F. W. Muller	Gustin-Bacon Mfg. Company
R. M. Stroud	Keasbey & Mattison Co.
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June 2, 1964

Mr. W. H. Boyd
General Refractories Company
1520 Locust St.
Philadelphia 2, Pennsylvania

Dear Bill:

At a recent meeting of the Board of Directors of the National Insulation Manufacturers Association, it was brought out that one of the major insulation manufacturers was planning to add a cautionary note to containers where the products involved included asbestos as a constituent.

I am attaching a copy of that portion of the minutes of this meeting which gives the details of this step.

We are planning to use this same cautionary note, having it printed on the bags when our present stocks run out. The Eagle-Picher products involved are: Super "66" Cement, One-Coto Cement, "33" Cement and "43" Cement. Your corresponding products are: Insulating Cement, Insul-Finish Cement and Vermiculite Insulating Cement.

At your convenience, would you let us know if you wish similar action taken with respect to the cements which we are manufacturing under your label.

Sincerely,

THE EAGLE-PICHER COMPANY

John P. Harrington
General Sales Manager
Industrial Insulation

JPH/cm

Att.

bcc: Mr. H. F. Munn
Mr. A. L. Jones

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3. It was reported that the NIMA lease expires on April 31, 1964. It was agreed that the lease should be renewed for 3 years, providing any increase in rent that may be asked by the landlord will not exceed 10 percent.. Mr. J. M. Barnhart will discuss the new lease with Mr. M. W. Burleson before signing.

4. It was agreed that the NIMA Annual Meeting would be held at the Seaview Country Club, Absecon, N. J., on October 5 and 6, 1964.

5. It was reported that Johns-Manville Sales Corp., was printing on cartons, crates, etc., containing asbestos products (calcium silicate, magnesia, asbestos cements) a note pertaining to the dust created be these materials. The wording will be as follows:

"Caution: This product contains asbestos fiber.

Inhalation of asbestos in excessive quantities over long periods of time may be harmful.

If dust is created when this product is handled, avoid breathing the dust.

If adequate ventilation control is not possible wear respirators approved by the U. S. Bureau of Mines for pneumoconiosis producing dust."

ADJOURNMENT

There being no further business

The meeting was adjourned.

Respectfully submitted

J. M. Barnhart

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October 15, 1965

NIMA STATISTICAL REPORTING

PRODUCT GROUP "A"

1. Diatomaceous Silica, Calcium Silicate, 85% Magnesia, and Asbestos Fiber

(a) Pipe

Baldwin-Ehret-Hill	Thermasil
Fibreboard Paper Products	Caltemp
	85% Magnesia
Johns-Manville	Superex M
	Thermobestos
	85% Magnesia
Owens-Corning	Kaylo
	Kaylo 20
Pittsburgh Corning	Unibestos
Ruberoid	Calsilite

(b) Blocks

Baldwin-Ehret-Hill	Thermasil
Fibreboard Paper Products	Caltemp
	85% Magnesia
Johns-Manville	Superex M
	Thermobestos
	85% Magnesia
Owens-Corning	Kaylo
	Kaylo 20
Ruberoid	Calsilite
Pittsburgh Corning	Unibestos

(c) Cement

Baldwin-Ehret-Hill	Thermasil
Fibreboard Paper Products	Caltemp
	85% Magnesia
Johns-Manville	Superex M
	85% Magnesia

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PRODUCT GROUP "B"

(a) Loose & Granulated

Baldwin-Ehret-Hill	B & H Loose
	E & H Granulated
Eagle-Picher	Eagle H-4 Loose Wool
	Eagle 7-B Granulated Wool
Forty-Eight	Copr-Fibre Packing Fibre
Johns-Manville	Spun Banroc Loose & Granulated
N. L. Morell	Mineralite
Owens-Corning	Bulk Insulating Wool
	Shredded Insulating Wool

(b) Blocks

Baldwin-Ehret-Hill	Monoblock
Eagle-Picher	Supertemp
Forty-Eight	Weber's H. T. Block
Johns-Manville	Banroc H. T.

(c) Cements

Insulating

Baldwin-Ehret-Hill	No. 1
Eagle-Picher	66
Forty-Eight	Weber's Super 48
Johns-Manville	450

Finishing

Baldwin-Ehret-Hill	Super Powerhouse
Eagle-Picher	One-Cote
Forty-Eight	Quik-Set
Johns-Manville	301

(d) Blankets (Flexible)

Plain

Gustin-Bacon	Ultralite
	Ultrafine
Johns-Manville	Microtex
	Microlite
Owens-Corning	Flexible Duct Insulation
	TWF
	TWL

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Pittsburgh Plate Glass	Superfine
	Textrafine

Faced & Coated

Gustin-Bacon	Ultralite
	Ultrafine
	Plenum Insulation
Johns-Manville	Microtex
	Microlite
	Super-Fine
Owens-Corning	Flexible Duct Insulation
	Flexible Duct Liner
Pittsburgh Plate Glass	Superfine
	Superface
	Textraface
	Textrafine

Metal-Reinforced

Baldwin-Ehret-Hill	Blanket
Eagle-Picher	Blanket
Forty-Eight	Copr-Fibre Blanket
Johns-Manville	No. 100 Series Bannoc
Owens-Corning	Metal-Mesh Blanket

(e) Pipe (Fibrous)

Gustin-Bacon	Snap-On
Johns-Manville	Micro-Lok
Owens-Corning	Pipe Insulation, Low Pressure
	Pipe Insulation, One Piece
	Pipe Insulation
Pittsburgh Plate Glass	PPG Pipe Insulation

(f) Board & Felt

Plain

Baldwin-Ehret-Hill	Industrial Felts
	Duct Insulation
Eagle-Picher	MT Board
	MT-10 Board
	Spun Mineral Fiber

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Forty-Eight	Copr-Fibre L. T. Felt
	Copr-Fibre Rigid Insulation
Gustin-Bacon	Insulation Board
Johns-Manville	Spintex 412
	Spintex 413
	Spintex 414
	Spintex 415
Owens-Corning	PF 611 thru PF 618
	700 Series
	AE Board
Pittsburgh Corning	Foamglas
Pittsburgh Plate Glass	Superfine
	Textrafine

Faced & Coated

Baldwin-Ehret-Hill	Industrial Felt Duct Insulation
Eagle-Picher	Spun Mineral Fiber
Forty-Eight	Copr-Fibre Duct Insulation
Gustin-Bacon	Insulation Board
Johns-Manville	Spintex 414
	Spintex 415
Owens-Corning	Coated Duct
	FF Vapor Seal Duct
Pittsburgh Plate Glass	Superfine
	Textrafine

(g) All Others (Include Blanket-Type Pipe Insulation)

Baldwin-Ehret-Hill	No. 100 Pipe Cover
	No. 101 Pipe Cover
Eagle-Picher	Tab-Lok
	#77
Forty-Eight	Lag-On
	N 700
Gustin-Bacon	Flexible Train Line Insulation

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Executive Secretary	J. M. Barnhart	

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P. L. Losse	The Eagle-Picher Company

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J. Hankammer	Gustin-Bacon Mfg. Company
W. T. Irwin	Pittsburgh Plate Glass Co.
K. M. Ritchie	Baldwin-Ehret-Hill, Inc.

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W. C. Schwingen	The Ruberoid Company
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G. Hammond	Owens-Corning Fiberglas Corp.
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CHQ
June 9, 1966

R. E. Naylor - DHQ

cc: Dr. K. W. Smith - CHQ
W. W. Lanigan - DHQ
M. W. Burleson - DHQ

HEALTH HAZARDS FIBER GLASS DUCT SYSTEMS

There is considerable action in many directions concerning Dr. Selikoff's past and present public relations program to condemn asbestos and fiber glass materials.

It is my understanding that Dr. Kenneth Smith intends to accept the chairmanship of the NIMA Health and Safety Committee. One of the major functions of this committee is to determine what action can be taken immediately and long range in order to curtail the damaging adverse publicity.

It would be my impression that one of the foremost activities of the NIMA committee should be to discuss USPHS activities with Dr. Cralley. The committee can then determine whether or not Dr. Cralley is in a position to make any public statements concerning fiber glass.

To supplement the NIMA Health and Safety Committee's activities, there has been considerable discussion concerning a tour of the Industrial Insulation Contractors Regional Meetings. The purpose of this tour would be to project health, prevention and liability information directly to the contractors.

Dr. Smith is currently discussing the NIMA program with Jack Barnhart and I am confident that he will keep you informed of proposed activities.

C. L. Sheckler

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GHQ
May 26, 1966

M. W. Burleson - GHQ

cc: J. B. Jobe - GHQ
H. M. Jackson - GHQ
Dr. K. W. Smith - GHQ

NIMA COMMITTEE - ASBESTOS
YOUR LETTER: 5/25/66

I have received a copy of your letter to Mr. Jobe, dated 5/25/66, and would like to clarify several areas of apparent misunderstanding.

I have a full appreciation of the seriousness and the extent of the problems concerning insulations materials including fiber glass, asbestos, mineral wool, etc.

Based on this knowledge, I have been engaged in extensive work with outside organizations over a period of four years; I explained some of this work, which has direct bearing on the insulation problems, in my meeting with the NIMA Executive Committee on 5/24/66. This includes work with the ATI, EHF, USPHS, AMIB, The University of Pittsburgh, and the recent informal industrial meeting in Pittsburgh, etc. Also, I have presented an educational discussion of the problems to the Middle Atlantic Contractors Association and followed-up as the Acting-Chairman of the NIMA, substituting for Dr. Smith.

There was no intention on my part to give you or the other members of the Executive Committee the impression that I took the problems of NIMA lightly or felt that the activity was one to be done in the spare time. When you asked me to undertake the educational program and speaking tour, I pointed out the problem of time and suggested that we meet with Hugh Jackson for further discussion.

I am in complete agreement with your thinking that this is not a "spare time job" and is of the utmost importance to the insulations business. There are many recent J-M developments and activities concerning this subject that have not been brought to your attention. I recommend, therefore, that we meet with Hugh Jackson and pursue this matter further.

Our internal problems should be resolved in the near future inasmuch as E. Edwards of O-C called today and discussed the necessity for a NIMA Safety Committee meeting to report on the air-duct erosion program.

C. L. Sheckler

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NATIONAL INSULATION MANUFACTURERS ASSOCIATION

441 LEXINGTON AVENUE · NEW YORK, N.Y. 10017

May 31, 1966

TO THE HEALTH & SAFETY COMMITTEE

Dr. L. B. Grant
Dr. K. Smith
F. Edwards
H. Mesler
R. Kahn
Dr. R. Cotts Not MD. Plus Bill Vandenbeck

Gentlemen:

The NIMA Executive Committee has asked that the Health & Safety Committee form a team and formulate a program to give presentations at the Insulation Distributor - Contractors National Association (IDCNA) Regional Meetings.

For the purpose of discussing this program and other subjects relating to health and safety a meeting has been scheduled as follows:

Date: 9:30 A.M. Thursday, June 30, 1966 OK

Location: NIMA Office
441 Lexington Avenue
New York, N. Y. Room 1004

Please indicate your attendance at the meeting on the attachment and return it to the NIMA Office at your earliest convenience.

Sincerely yours

J. M. Barnhart

JMB:HCL
cc: Board of Directors

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PRESENTATION TO REGIONAL CONTRACTORS ASSN. MEETINGS
HEALTH AND WORKMEN'S COMPENSATION PROBLEMS
RE: INSULATION MATERIAL HANDLING

PART 1: INTRODUCTION

a. Introduction of subject.
b. Purpose and objectives of discussion.
c. Introduction of personnel and professional background.
d. Materials to be discussed: Asbestos, Diatomaceous earth, Silica, Fibrous Glass and Mineral Wool.

PART 2: ASBESTOS, DIATOMACEOUS EARTH AND SILICA

a. Definition of toxic materials and how they can be handled safely.
b. Types of toxic materials common to Insulation Contractors.
c. Entry of toxic materials into the body.
d. Threshold limit values and use of same.
e. Visual demonstration of toxic materials.
f. Hygienically important dusts and why.
g. Functions of pulmonary and circulatory system in simple lay terms.
h. Pulmonary disease types and differences.
i. Degrees of dust exposure and effect.
j. Non-Occupational pulmonary diseases and related W.C. liabilities.
k. Statutory W. C. differences between Occupational disease and traumatic injuries.
l. Background of W. C. and common law liability.
m. Philosophy of W. C. and labor influence on legislation and administration.
n. Insurance and Self-Insurance W. C. coverage/
o. Costs involved in Occupational disease cases.
p. Preventative medical programs.
q. Minimizing exposures and preventing diseases.
r. Manufacturers' concern and research activities.

PART 3 FIBROUS GLASS AND MINERAL WOOL

a. Physical properties, history and manufacturing process.
b. Effect of Fibrous Glass on people.
c. Question of toxicity and experience to date.

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FIBROUS GLASS AND MINERAL WOOL cont.

d. Threshold limit values.
e. Inhalation and particle size.
f. Binders and effect on people.
g. Dermatitis.
h. Attitude of W. C. Agencies and other groups re: exposures to fibrous glass and mineral wool.
i. Experience w/governmental agencies re: contractor problems.
j. Recommendations for minimizing employee health and liability problems.
k. Manufacturers interest and current research programs.

PART 4 CONCLUSION

a. NEMA interest in Contractors' health and liability problems.
b. Objectives of NEMA Health and Safety Committee.
c. Source of information and assistance to Contractors or Contractors' associations.
d. Closing.

PART 5 QUESTION AND ANSWER PERIOD

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NIMA

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	Morell Company
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F. A. Nordstrom	Fibreboard Paper Products Co.
J. F. Vyverberg, Chairman	Owens-Corning Fiberglas Corp.
M. M. Wilson	Baldwin-Ehret-Hill, Inc.

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W. C. Schwingen	The Ruberoid Company
G. Wright	Johns-Manville Sales Corp.
J. McAllister	Baldwin-Ehret-Hill, Inc.

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H. P. Hoopes)	T & R Committee Laison Members
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S. K. Heard	Owens-Corning Fiberglas Corp.
R. E. Harmon	Pittsburgh Plate Glass Co.
Larry Lach	Johns-Manville Sales Corp.
Burt Tower	Johns-Manville Sales Corp.

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J. Dorsey	Johns-Manville Sales Corp.
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H. Mulkey	Pittsburgh Plate Glass Co.

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Dr. L. B. Grant	Pittsburgh Plate Glass Co.
H. R. Mesler	The Ruberoid Company
R. Ringwalt	Owens-Corning Fiberglas Corp.

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G. M. Schramer	Forty-Eight Insulations, Inc.
A. Wallner	Johns-Manville Sales Corp.
E. W. Zimmerman	The Ruberoid Company
C. M. Gergel	Baldwin-Ehret-Hill, Inc.
R. Morin	Fibreboard Paper Products Co.

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G. Hammond	Owens-Corning Fiberglas Corp.
R. E. Naylor	Johns-Manville Sales Corp.
J. E. Johnson	Gustin-Bacon Mfg. Company
A. C. Pecora	Pittsburgh Plate Glass Co.

PUBLICITY COMMITTEE

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B. Williams	Pittsburgh Plate Glass Co.

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INDUSTRIES

PITTSBURGH PLATE GLASS COMPANY/ONE GATEWAY CENTER/PITTSBURGH, PA. 15222/AREA 412/281-5100

LEE B. GRANT, M.D., Medical Director

ENVIRONMENTAL CONTROL DEPARTMENT
ROUTE TO
REC'D JUL 25 1967
EMF
CLS
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FILE

July 19, 1967

Mr. J. M. Barnhart
National Insulation Manufacturers Association
441 Lexington Avenue
New York, New York 10017

Dear Jack:

SUBJECT: Environmental Health Committee, NIMA

Attached are two articles appearing in the July 1967 issue of the Journal of Occupational Medicine which will be of interest to the Committee. They are both very favorable.

Today, Dr. W. Clark Cooper met with us and we discussed his activities in regard to investigation of the health hazards and their control in insulation installation, the activities of the subject Committee in regard to both education and investigation and his opinion about the hazards of fiber glass dust inhalation. It appeared during this discussion that it would be mutually beneficial to have Dr. Cooper meet with our Committee. He has been interested through his association with both the Union and the Contractors on the West Coast in doing what we have been doing and intend to do more of at the regional meetings of the Contractors, namely, to promote the recognition and control of potential environmental health hazards of insulation workers. We could, in my opinion, accomplish the job more effectively by maintaining a liaison between his group and ours. Early August is a possible time for such a meeting and in view of our activities with the U.S.P.H.S., Cincinnati might be an appropriate place. Dr. Cooper will advise me of his availability possibly this week.

Sincerely,

Lee B. Grant, M.D.

lns
Encs.
cc: Mr. R. A. McLaughlin
Mr. J. T. Destefano

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NATIONAL INSULATION MANUFACTURERS ASSOCIATION

441 LEXINGTON AVENUE · NEW YORK, N. Y. 10017

MURRAY HILL 2-3574

July 12, 1966

TO THE HEALTH & SAFETY COMMITTEE

Gentlemen:

Attached is a copy of a letter we received from H. Hoopes relating to a grant at the University of California.

This subject should be discussed at the next Committee Meeting.

Sincerely yours

J. M. Barnhart

JMB:HCL.
encl.
cc: H. P. Hoopes

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FIBREBOARD
PAPER PRODUCTS CORPORATION

PABCO INDUSTRIAL PRODUCTS DIVISION • 475 BRANNAN STREET • SAN FRANCISCO, CALIF. 94119

July 6, 1966

Mr. J. M. Barnhart
National Insulation
Manufacturers Association
441 Lexington Avenue
New York, New York 10017

Dear Jack:

We read with great interest the letters and minutes you have sent on the Health and Safety Committee reports of N.I.M.A.

As a matter of information, the U. S. Public Health Department has set up a grant at the University of California, Berkeley, for a three-year study into the Asbestosis problem. This work is going to be done in the School of Public Health, Division of Environmental Health, by a Mr. J. Le Roy Balzer in conjunction with Drs. Clark Cooper and I. R. Tabershaw.

We would appreciate some comment from you as to how the industry feels about these studies and about the amount of cooperative efforts the various manufacturers are going to give this program.

As a matter of information, Mr. Balzer is going to spend two weeks during the month of July on three of the large jobs here in the state of California with a controlled number of asbestos workers wearing his "sampling device".

Very truly yours,

H. P. Hoopes, Product Manager
Pabco Industrial Insulations

HPH: jb

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Jack Boyer
BT

NATIONAL INSULATION MANUFACTURERS ASSOCIATION, INC.

441 Lexington Avenue • New York, N.Y. 10017

April 9, 1968

TO THE BOARD OF DIRECTORS AND HEALTH & SAFETY COMMITTEE

Gentlemen:

Supplementing our letter of February 19, 1968, we are attaching for your perusal a copy of "Recommended Practices - For Handling and Applying Thermal Insulation Products Containing Mineral Fiber".

If you have any major comments on the concept, please advise us prior to April 22, 1968, as we will start final printing at that time. If we do not hear from you prior to that date, we will assume you approve and will act accordingly.

Sincerely yours,

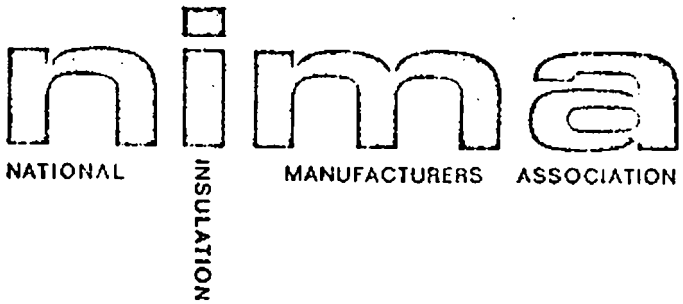
J. M. Barnhart

js
cc: G.D. Reycraft

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RECOMMENDED HEALTH SAFETY PRACTICES

For Handling
And Applying
Thermal
Insulation Products
Containing
Mineral Fibers



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INTRODUCTION

Mineral fiber is a generic term and is applied principally to glass wool, rock wool and slag wool. The basic physical structure of each of these materials is a lightweight mass of intermingled mineral fibers processed from a molten state into a fibrous form.

Mineral fiber products are produced in numerous forms for a wide range of uses and applications. Despite the diversity of applications, the health safety practices for handling, fabricating and applying these materials are very similar.

Mineral fiber products will differ primarily in density, rigidity, shape, and fiber dimension, depending upon use and requirements. Products manufactured from coarse fibers may cause some irritation.

Generally these health safety problems can be classified into two major areas:

(1) *Physical contact with mineral fibers.* Contact with mineral fiber particles may result in itching and skin irritation. Particles may enter the eyes particularly during overhead applications.

(2) *Exposure to excessive mineral fiber dusts.* Inhalation of excessive quantities of dust may result in some respiratory irritation.

Manufacturers of Thermal Insulation Products containing mineral fiber have for years been taking protective measures to control excessive dust.

The National Insulation Manufacturers Association recommends the following practices for handling and applying thermal insulation products containing mineral fiber to protect the worker.

Insulation contractors and applicators are urged to study these recommended practices carefully and to see that they are observed by all workers handling insulation materials. As with Safety Regulations, it is in the interest of both employer and employee to see that health safety practices are strictly observed.

Prepared By
COMMITTEE ON SAFETY AND HEALTH

NATIONAL INSULATION
NIMA
MANUFACTURERS ASS'N.

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HOUSEKEEPING

An organized housekeeping program should be maintained in all areas and on all operations at all times.

A major source of excessive airborne dust is from loose materials, scrap, and debris distributed throughout the job area and disintegrated by trampling on, running over, etc. Much of the airborne contamination can be eliminated by exercising simple good housekeeping practices.

Specific standards and practices designed for providing safe, clean and orderly working conditions should be defined.

Efficient supervisory control, planning of systematic cleaning plus day to day follow-up are the basic requirements for dust control and health protection.

PHYSICAL CONTACT WITH MINERAL FIBERS

1 If particles accumulate on exposed skin areas, do not rub or scratch. Remove the particles by washing thoroughly with soap and warm water. If water is not available, use dry wash materials (waterless soap and paper towels).

2 Long-sleeve shirts, long trousers and caps should be worn to cover maximum skin areas to avoid contact with the mineral fibers. Clothing should be loose fitting at collars, wrist bands and waist to eliminate skin irritation.

3 Barrier creams applied to exposed skin areas will provide protection against skin irritation. They should be used prior to handling the material and re-applied according to instructions.

4 Good personal hygiene practices are essential. Thoroughly wash exposed skin areas periodically and shower at end of work day. Change and launder work clothing frequently.

5 Proper work methods and practices that will eliminate creating excessive dust should be adhered to at all times.

6 Suitable gloves should be worn whenever handling abrasive materials.

7 Mineral fiber slivers that superficially penetrate the skin should be removed by thoroughly washing. Those embedded in the skin should be removed immediately and medical treatment administered.

8 Sharp particles may result in eye injuries. Safety glasses, goggles or face shields should be worn when applying materials overhead or in areas where airborne particles may get into the eyes.

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EXPOSURE TO EXCESSIVE MINERAL FIBER DUSTS

1 When mineral fiber materials are machine sawed, die cut, slit, etc., mechanical dust collecting systems adequately designed to remove dust at the source should be installed.

2 Hand cutting, jacket stripping, etc., should be done in a manner that will create minimal airborne dust. Proper methods and tools will help considerably to abate dust.

3 When working in confined spaces, dust collecting systems adequately designed should be provided to remove dust from the source. If conditions prevent collecting dust, use exhaust blowers to provide general room air changes. Avoid exhausting into other work areas. If mechanical exhaust equipment cannot be used to remove excessive dusts, *Respirators should be worn.

4 When applying mineral fiber insulation overhead, workers should be clothed as described on page 5, wear eye protection and *Respirators if excessive dust is generated.

5 When mineral fiber thermal insulations are stripped from piping or other surfaces, the area in which stripping takes place should be confined by means of curtains, portable partitions, etc., to prevent excessive dust concentrations in adjacent areas. All workers in the stripping area engaged in tearing off, handling, cleaning and disposing of material should be clothed as described on page 5, wear eye protection and *Respirators.
Where circumstances permit, materials should be wetted down prior to and during removal. Where applicable, portable mechanical exhaust ventilation should be used to remove airborne dusts from the area.

6 Avoid unnecessary rehandling of scrap by locating disposal equipment as close to working area as possible. Do not permit accumulation of scrap and debris on floor and other surfaces.

* *Bureau of Mines-approved respirators. See page 7.*

RESPIRATORY EQUIPMENT

Only U.S. Bureau of Mines-approved respiratory equipment is recommended for use. Approved respiratory equipment must be used at all operations where dust control is not adequate.

The efficiency and effectiveness of respiratory equipment is dependent upon proper care, cleaning and maintenance. A systematic procedure should be established to assure that this is done.

Lists of currently approved respiratory equipment can be obtained from:

Bureau of Mines
United States Department of the Interior
Nineteenth and E Streets, N.W.
Washington, D.C. 20240

American Industrial Hygiene Association
14125 Prevost
Detroit, Michigan 48227

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for additional copies, write:

Executive Secretary
National Insulation Manufacturers Association, Inc.
441 Lexington Avenue, New York, N.Y. 10017

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