

FRICTION MATERIALS STANDARDS INSTITUTE, INC., 370 LEXINGTON AVENUE, NEW YORK, N. Y.

MINUTES OF MEETING

of the

ASBESTOS STUDY COMMITTEE

Wednesday, September 15, 1971 at 9:00 A.M.

at the

INSTITUTE OFFICE, 370 LEXINGTON AVENUE, NEW YORK, NEW YORK

MEMBERS PRESENT

|                               |                                        |
|-------------------------------|----------------------------------------|
| E. P. Stef1                   | Raybestos-Manhattan, Inc.              |
| J. C. Henning                 | Firestone Tire & Rubber Company        |
|                               | World Bestos Division                  |
| E. H. Feierabend              | Abex Corporation                       |
|                               | American Brakeblok Division            |
| W. B. Reitze                  | Johns-Manville Corporation             |
|                               | Environmental Control Systems Division |
| M. G. Jacko (for W. Spurgeon) | Bendix Corporation                     |
|                               | Bendix Research Laboratories           |
| J. B. Graham                  | Carlisle Corporation                   |
|                               | Molded Materials Division              |

OTHERS PRESENT

Representing the Asbestos Information Association, N.A., were the following:

|              |                     |                            |
|--------------|---------------------|----------------------------|
| W. Raines    | Secretary of A.I.A. | Johns-Manville Corporation |
| J. Callaghan | Retained by A.I.A.  | Hill & Knowlton, Inc.,     |
|              |                     | Public Relations Counsel   |

For the Institute:

|             |                     |                              |
|-------------|---------------------|------------------------------|
| E. Drislane | Executive Secretary | Friction Materials Standards |
|             |                     | Institute, Inc.              |

Dr. Stef1, Chairman, called the meeting to order.

Dr. Stef1 discussed the reasons for forming the Committee and the background for this first meeting. It was stated that because of the addition of asbestos as a target for environmentalists, and the fact that state and federal regulations are being proposed for asbestos control, that it was in the best interest for the various asbestos users to be current on proposed regulations. Further, this committee within the Friction Materials Standards Institute, Inc., could present the brake lining (and clutch facing) manufacturers' views to both the Asbestos Information Association of North America and to the various regulatory agencies. Another objective of this Committee would be to keep the members of the Institute informed as to the status of regulations concerning asbestos both in-plant and in the general environment, and to advise on the methods of measuring these asbestos concentrations in the environment.

ASBESTOS INFORMATION ASSOCIATION, N.A.

Dr. Stef1 discussed the problems that have arisen for asbestos products and asbestos users, where perhaps the best example is local legislation where the spray coating of asbestos in construction has been banned. A group of eight companies in asbestos mining and processing joined to form the Asbestos Information Association of North America. There are now nine members.

FMSI 06335

Minutes of Meeting  
Asbestos Study Committee

-2-

September 15, 1971

Two of the members of the A.I.A. are also members of the F.M.S.I.: Raybestos-Manhattan, Inc., and Johns-Manville Corp.

Creation of an Asbestos Study Committee within the Friction Materials Standards Institute was considered desirable by some of the A.I.A. members so that a working group in a particular area (brake linings and clutch facings) could give some input to the A.I.A. for their particular problems.

Dr. Stefl discussed briefly two different areas that are of concern: Environmental Protection Agency (EPA) emission standards and the proposed Illinois law that would prohibit the use of asbestos in brake lining of vehicles manufactured after January 1, 1975, and sold for use in Illinois.

Mr. W. Raines then presented a slide program with an outline of the private and federal agencies who will be involved in environmental studies and rule making that will affect asbestos.

H.E.W. - Occupational Safety & Health - (the work area)  
E.P.A. - Air Pollution (emission - general environment)  
Nat'l Academy of Sciences (Doctors study to guide E.P.A.)  
Various Private Research Institutes- (Studies based on Federal grants)

Mr. Raines then discussed the public's impressions concerning asbestos and the A.I.A.'s analysis of these impressions. This discussion was general concerning asbestos, and not aimed at the friction materials business.

ILLINOIS POLLUTION CONTROL BOARD

Mr. Callaghan read from a prepared 4 page write-up some background on the Illinois Pollution Control Board - its organization, personnel, financing and operations. Mr. Callaghan distributed copies of this write-up to all committee members. He particularly pointed out that with the Illinois proposed legislation, that this is the first time that brake lining as such has come under the legislative spotlight in the movements for asbestos particulate control.

LITERATURE CONCERNING ASBESTOS

Dr. Stefl discussed and distributed literature compiled by Mr. Callaghan concerning asbestos in brake lining:

| <u>Author</u>                   | <u>Publication</u>                                                                                                       |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Bentley, H. L.                  | "Control of the Use of Asbestos - Containing Friction Materials."                                                        |
| Hatch, D.                       | "Possible Alternatives to Asbestos as a Friction Material."                                                              |
| Hickish, D. E.<br>Knight, K. L. | "Exposure to Asbestos During Brake Maintenance."                                                                         |
| Knight, K. L.<br>Hickish, D. E. | "Investigations into Alternative Forms of Control for Dust Generated During the Cleaning of Brake Assemblies and Drums." |
| Lee, G. L.                      | "Removing Dusts from Brake Assemblies During Vehicle Servicing - Alternative Cleaning Methods."                          |
| Lynch, J. R.                    | "Brake Lining Decomposition Products."                                                                                   |
| Luxon, S.                       | "Technical Implementation of the New Asbestos Regulations."                                                              |

FMSI 06336

Minutes of Meeting  
Asbestos Study Committee

-3-

September 15, 1971

Author

Publication

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Roach, S. A.   | "Hygiene Standards for Asbestos."                                                                           |
| Smither, W. J. | "Asbestos and Asbestosis."                                                                                  |
| -----          | "National Inventory of Sources and Emissions: Cadmium, Nickel, and Asbestos - 1968. Asbestos, Section III," |

VEHICULAR TESTS FOR ASBESTOS EMISSIONS

Dr. Jacko advised that Bendix Research Laboratories are under contract to the E.P.A. to test and measure asbestos emission from brake linings. Part of the project includes emissions from clutch facings. This is part of a study of non-engine vehicle emissions - primarily rubber from tires and particulates (primarily asbestos) from brake linings.

Bendix is working with Dr. Somers of the E.P.A. in Ann Arbor. It is planned to make a draft report on this work in April 1972, with a final report due in June 1972.

ASBESTOS MONITORING PROCEDURES

In order for brake lining (and clutch facing) manufacturers, to be able to measure the asbestos concentration in the environment, Mr. Reitze will have some data prepared on monitoring equipment and techniques. This will be distributed to the general membership.

FUNCTION OF ASBESTOS STUDY COMMITTEE

It was stated that the committee was of value to the friction material industry if for no other reason than it could gather and disseminate to its members information about pending regulations concerning asbestos in the work place (occupational) and in the general environment (particulate emission).

Beyond that, it was felt that the Committee could draft comments relative to proposed regulations concerning asbestos and the brake lining industry in defense of reasonableness in the regulations.

NAME, POSITION, ADDRESS, OF COMMITTEE MEMBERS

|                         |                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dr. Eugene P. Stefl,    | Administrative Assistant to President<br>Raybestos-Manhattan, Inc.<br>205 Middle Street<br>Bridgeport, Connecticut 06603.<br>(203) 367-8661            |
| Mr. James C. Henning,   | Manager, Technical Research<br>World Bestos Company, Division of<br>The Firestone Tire & Rubber Company<br>New Castle, Indiana 47362<br>(317) 529-4790 |
| Mr. Eric H. Feierabend, | Manager of Manufacturing<br>American Brakeblok Division<br>Abex Corporation<br>Winchester, Va. 22601<br>(703) 662-3871                                 |

FMSI 06337

Asbestos Study Committee

September 15, 1971

NAME, POSITION, ADDRESS, OF COMMITTEE MEMBERS (Con't)

Mr. William B. Reitze, Business Mgr. - Industrial Hygiene Engineering  
Services  
Johns-Manville Corporation  
Research and Engineering Center  
Manville, N. J. 08835  
(201) 722-9000

(Note: Mr. Reitze is on the way to J-M's new Hdqtrs. in Denver, Colorado.)

Dr. William Spurgeon,      Manager - Materials and Processes Dept.  
Bendix Research Laboratories  
The Bendix Corporation  
Bendix Center  
Southfield, Michigan 48075  
(313) 352-7630

Mr. James B. Graham, Jr., Plant Manager  
Molded Materials Division  
Carlisle Corporation  
Ridgway, Pa. 15853  
(814) 773-3187

\* \* \* \* \*

Upon motion duly made, seconded and unanimously passed, it was

RESOLVED: To adjourn.

Adjourned at 2:00 P. M.

E. W. Drislane  
Executive Secretary