PLAINTIFF'S EXHIBIT
ATI-81
PENGAD-Bayonne, N.J.

May 23, 1969

Mr. E. A. Schuman
Johns-Manville
22 East 40th Street
New York, New York 10016

cc: R. P. Clark - Uniroyal, Inc.
L. E. Moody - H. K. Porter Co.
J. L. Rainey - American Asbestos Textile Co.
C. P. Weiss - Garlock, Inc.
H. C. Roosevelt - Cadwalader, Wickersham & Taft
H. E. Sunbury - Asbestos Textile Institute

Dear Ed:

I am attaching to this letter and to copies addressed to each member of the Board of Governors of the A.T.I. a copy of a letter sent to R/K by Mr. J. W. Murdock, Head, Applied Physics Department from the Department of the Navy, Philadelphia. It would seem that everyone has seen it by now but since it seems so important to all of us, I send it as a precautionary measure.

We certainly will place this subject on the agenda of the Sales Promotion Committee for the June 19th meeting at Seaview. At the same time, may I respectfully request that you make the letter available to the Enviromental Study Committee who would also be most vitally concerned. We believe that some form of action should be taken by the Institute in the form of a protest at the earliest opportunity. Cliff Sheckler's group could certainly advise us in this area.

At the same time, Raybestos-Manhattan intends to reply independently at their invitation as outlined in paragraph 11. We feel it expedient to submit a letter prior to June 15th in order to contribute to discouraging a development program on substitutes for asbestos in shipboard insulation.

Yours very truly,

M. Q. Scowcroft

M. Q. Scowcroft

cc

NAVAL SHIP ENGINEERING CENTER, PHILADELPHIA DIVISION
PHILADELPHIA, PA. 19112

IN REPLY REFER TO
6744:MA:dmt
9390(FA-287)
Ser 750

5 MAY 1989

Raybestos-Manhattan Incorporated
61 Willett Street
Passaic, New Jersey 07055

Gentlemen:

Re: Proposed Insulating Materials for Naval Vessels

The serious hazards of asbestos have recently received widespread publicity and have generated a high level of interest concerning its use by the U. S. Navy as an insulating material. There are many varied uses of asbestos in the Navy but the most disturbing, from a health hazard viewpoint, is that for piping and boiler insulation and lagging. The chief hazard exists wherever there is a possibility of dust evolution during operations such as fabrication, installation and especially during rip-out.

In order to minimize the hazards associated with the use of asbestos and therefore reduce the possibility of deleterious effects to the workers, a comprehensive study has been initiated by the Naval Ship Engineering Center, Hyattsville, Md., to investigate the feasibility of substituting alternate materials for asbestos used as lagging, piping and boiler insulation. High temperature insulation, as used by the Navy, must be composed mainly of inorganic materials in order to endure temperatures above 200 F for extended periods. In addition, an acceptable insulation must exhibit the following characteristics:

1. Low heat conductivity.

2. Non-combustibility.

3. Lightweight.

4. Capability of easy molding and application.

5. Moisture repellency.

6. Non-corrosive, insoluble and chemically inert.

7. Composition, structure and characteristics must remain unchanged by temperature at which it is to be used.

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8. Must be vermin proof.

9. The material and application costs should be economical.

10. The ideal insulation should be nontoxic and non-injurious to personnel during fabrication, installation, use, or rip-out.

11. Once installed, it should not cluster, become lumpy, disintegrate or build up in masses from vibration.

The Philadelphia Division of the Naval Ship Engineering Center has been assigned tasks to conduct a survey of suppliers of insulation to the Navy, to secure technical data literature, and to investigate medical research findings, safety manuals, and data on research being pursued by private industry intended to develop new or improved materials which may be suitable for replacements for asbestos for piping, felts and lagging. The cooperation and support of industry for this study is earnestly solicited by this activity since the health of the worker is the concern of management, labor and the government. Accordingly, the Navy is desirous of obtaining information on the following:

a. Are alternate non-asbestos containing materials available which may be used as thermal insulation pipe covering? The insulation must offer protection up to 750 F and be manufactured in cylindrical sections up to 3 feet long, and split in half lengthwise.

b. Are there any single layer or combination layered non-asbestos molded materials available which may be used as thermal insulation pipe covering for protection from 750 to 1200 F?

c. What materials may be substituted for asbestos insulating felt (plain or water repellent) for use on valves or other irregular surfaces and which are suitable for a range from cold water temperature to 900 F?

d. What non-asbestos containing cloth materials may be used as a lagging jacket over thermal insulation, or as a wrapping on engine exhaust pipes, or for piping or tubing, or on the inner and outer surfaces of removable covers and on flanges and valves from -5 F to 1050 F?

e. What heat-resistant bonding materials may be substituted for [illegible] insulation [illegible] over block insulation and irregular surfaces where powdering during rip-out has been a problem?



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f. What safety precautions to prevent inhalation of dust are observed during the manufacturing and processing of insulation materials?

g. What safety precautions are recommended during the installation and replacement of insulating materials to prevent the inhalation of asbestos fibers and dust?

h. To what extent or degree will material and installation costs be affected by the elimination or curtailment of the use of asbestos containing insulation?

Due to the urgency of this undertaking, it is requested that the above information be forwarded at your earliest convenience to Dr. M. Ammuth, the project engineer of this task, at the Naval Ship Engineering Center, Philadelphia Division, 6764, Philadelphia, Pa. 19112 (telephone number (215) 755-3922). Information submitted to the Philadelphia Division of the Naval Ship Engineering Center will be utilized by the Naval Ship Systems Command in promulgating a directive which will eliminate the use of materials and practices which are potentially hazardous to the health of insulation workers. This activity has been directed to complete the survey of insulation suppliers by 15 June 1969 to afford time for collation and personal contacts, if deemed necessary.

Please be assured that any product composition and formulae submitted in response to this survey will be held in strict confidence and will be viewed as a voluntary contribution to this perplexing problem to the insulation industry. It is understood that submission of information solicited by this activity will not obligate the government or its agencies in any manner whatsoever.

Very truly yours,

J. W. MURDOCK
Head, Applied Physics Department



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