PLAINTIFF'S EXHIBIT

JM-2496

DHQ - Asbestos Fiber Sales
August 15, 1972

N. W. Hendry

cc: W. L. Vanderbeek
J. R. Hutchenson
F. J. Solon, Jr.
H. B. Moreno
C. L. Stake
E. M. Fenner
H. Jackson

BENDIX CORPORATION
SOUTHFIELD, MICHIGAN
ASBESTOS HEALTH SEMINAR 8/8/72

A seminar on Asbestos Health was held at the Executive Offices of the subject company on the above date. The format is attached, as is the list of Bendix attendees. This presentation can form the basis for future J-M presentations on A/H as well as for the A.I.A. regional seminars now being planned.

Our presentation was very well received, and from the Chief Operating Officer on down, all Bendix personnel expressed their appreciation and acknowledged that the information presented is of considerable help to them.

During our visit we had an opportunity to hold meetings with B.B. Burton, J. Armstrong, H. Stolar and C. Menz. These occurred at dinner, breakfast, and lunch as well as immediately before and after the seminar.

Questions were as follows:

1. Cost per employee to meet OSHA TVL Requirements

   a) of 5 fiber/cc (Arthur D. Little Study estimate $1,600/employee

   b) of 2 fibers/cc (estimate $2,800/employee)

2. Accuracy of Tests for fiber content in air
   (our answer ± 20-25% at TLV of 5)

3. How is brake lining dust disposed of
   (Resulted in general discussion covering pelletizing, land fill, etc.).

4. Questions by Heitman to Dr. Wright during presentation were answered by Wright's total presentation. An example was risk on grinding linings in garages.

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Answer: Do not flow dust off brakes. Use vacuum.

5. Any time limit an employee can be on a job that is hazardous and do we rotate people on such jobs.

   Answer: No, we correct the problem so that the hazard is controlled.

6. Can technological approach work in controlling problems?

   Answer: We do the following

   a. reduce forming and finishing by technical changes.

   b. educate personnel to reduce costs and work better

   c. work towards least expensive solution. Ex use of wet or damp resin mix.

7. Have we been cited by OSHA.

   Answer: Yes

8. How do we handle OSHA Requirement to notify individual employees of stations that are hazardous?

   Answer: (1) Post on bulletin board results of station surveys that are over limit, (2) advise what is being done to correct.

9. Any value in taking your own dust counts side by side with OSHA Inspector?

   Answer: We try to take simultaneous samples.

10. Does #9 help in getting more cooperation from OSHA?

    Answer: We really can't tell any difference. Bendix has tried this and where it was done no citations so far from OSHA.

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11. General questions on air samplers and pumps.

    a. How many do we have

       Answer: 100

    b. Cost

       Answer: $150/pump (note we do have some Bendix pumps)

               $ 50/charger

12. How do you secure Industrial hygenists, what type of man and how much training.

    Answer: (1) Secure man with 2 yr. college or college grad. (4 yrs.). Train in house. Takes 6 months for man to become fully operative.

13. How many do you have.

    Answer: 20 full time

14. If glass fiber lodges in lung, what damage.

    Answer:

    a. glass has almost no effect vs. asbestos

    b. However, there is some evidence that very thin glass (micro-fibers) can cause a problem. Still under investigation.

    c. some coatings have been found to render glass inert in the lung.

    d. if we could determine the method of coating particles or fiber similar to the natural method in the lung (by iron & protein) problem would be solved. Work going on in an attempt to do this. PVNP (Polyvinyl N Pyridene) works on some silicates and quartz). On quartz PVNP destroys free bond present on quartz surface.

15. With advent of OSHA have we found any marked increase in compensation claims.

    Answer: No great increase

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16. How do you comply with requirements on including employees in Environmental Control Committees.

Answer: We've done this for years in our employee safety committees - just changed the group's name. This is an excellent employee communication media.

I discussed the possibility of our securing business at the Cleveland Plant with Harry Stolar and Charlie Benz. They were encouraging and I will pursue it through our contacts.

I talked with Bob Burton on August 13 and discussed it with him. He said there was some discussion at the top level on this. I expect our visit will pay dividends. Will keep you informed.

H. G. Donovan

Attachments:

1. Attendees From the Bendix Corporation

2. Agenda

3. Health Aspects of Exposure by Inhalation of Asbestos Fiber

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ATTENDEES FROM THE
BENDIX CORPORATION

Charles E. Heitman (Charlie)	Vice Chairman and Chief Operating Officer
W. L. Hiron (Bill)	President, Automotive Group
Hank Bobel	Staff Assistant
H. O. Stolar	Director of Management Advisory Staff
A. C. Joines (Al)	Senior Staff Executive to Chief Operating Officer
Neil Saunders	Director of Cost Reduction and Mfg. Engineering (Corp.)
R. B. Hungate (Bob)	Vice President and Group Executive
C. Menz (Charlie)	General Manager, Friction Materials Division
R. B. Burton (Bob)	Staff Assistant for the Vice President, Manufacturing, On Environmental Control
J. W. Armstrong (Jim)	Corporate Manager for Safety and Health
H. Kaplan	Vice President, Public Relations
Joe Tierney	Director Public Relations
Aubry Raymond	Legal Staff

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AGENDA
ENVIRONMENTAL HEALTH PRESENTATION
TO BENDIX CORPORATION EXECUTIVES
SOUTHFIELD, MICHIGAN - AUGUST 8, 1972

I.	INTRODUCTIONS	H. G. DONOVAN Product Marketing Manager Asbestos Fibre Division
	A. Introduction of Johns-Manville personnel	
II.	MEDICAL ASPECTS OF ASBESTOS/HEALTH	GEORGE W. WRIGHT, M.D. Director of Medical Research St. Luke's Hospital Cleveland, Ohio Medical Consultant to J-M.
III.	OSHA REGULATIONS	H. M. JACKSON Director of Employee Relations E. M. FENNER Director of Environmental Control
IV.	CUSTOMER RELATIONS	W. L. VAN DERBEEK Vice President, Mining and Canadian Products Divisions
V.	IMPACT OF OSHA REGULATIONS ON ASBESTOS MANUFACTURING USE	H. B. MORENO Vice President, Industrial Products C. L. STAKE Production Manager, Industrial Divisions
VI.	PUBLIC RELATIONS ASPECTS OF ASBESTOS/HEALTH	F. J. SOLON, JR. Vice President Corporate Relations
VII.	Q & A	

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Health Aspects of Exposure by Inhalation of Asbestos Fiber

G. W. Wright, M.D.

1. Biological effect in humans and experimental animals.

2. Is the biological experience the same in all types of commercial operations:

   Mining and Milling

   Canada - Italy - Russia - South Africa

   Textiles - Asbestos Cement - Building Materials - Friction Materials
   Insulation trades

3. Reasons for variations observed in "2" (above)

   Kinds of fiber:

   Chemistry - geometry and size (short / thick; long \ thin)

   Dose:

   Generated - Inhaled - Destroyed - Retained

   Location of fibers:

   Bronchi - Alveoli - Pleura

   Co-Factors:
   Cigarettes - Trace Metal - Other

4. Risk to employees in BL manufacturing

   Chrysotile - size of fiber - dose (McDonald / Enterline) data - OSHA

5. Risk to Public from BL use
   General Public
   Garages
   Fate of Fiber
   Animal Experiments

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