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BENDIX MEETING - AUGUST 7, 1972

THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 ESTABLISHES  
AS LAW/LITERALLY THOUSANDS OF SAFETY AND HEALTH STANDARDS.  
IT PLACES ON MANAGEMENT THE FULL RESPONSIBILITY FOR MEETING  
THESE STANDARDS.

SLIDE 1 - ON

UNDER THE ACT, THE SECRETARY OF LABOR IS REQUIRED TO ESTABLISH  
SAFETY AND HEALTH STANDARDS THAT "WILL INSURE THAT NO EMPLOYEE/  
WILL SUFFER MATERIAL IMPAIRMENT OF HEALTH/OR FUNCTIONAL CAPACITY  
IN A WORKING LIFETIME". *IN 1960 WE HAD FOR THIS FIRST  
AS AN OPERATING POLICY FOR MANY YEARS, AND WE ARE CONVINCED  
THAT ANY MATERIAL CAN BE HANDLED SAFELY.*  
ON APRIL 28, 1971, THE WALSH-HEALY, LONGSHOREMAN, AND OTHER  
FEDERAL ACT STANDARDS-AND-THE NATIONAL CONSENSUS STANDARDS (SUCH  
AS THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND AMERICAN  
NATIONAL STANDARD INSTITUTE) WERE ESTABLISHED AS OSHA STANDARDS/  
WITH THE FULL EFFECT OF THE LAW.

*MANUFACTURING*  
THESE STANDARDS COVER ACTUALLY EVERY FACET/OF ~~OUR~~ OPERATIONS AND  
FACILITIES. THEY RANGE FROM STANDARDS FOR WORK SURFACES, LADDERS,  
MANLIFTS, SANITATION, MEDICAL SERVICES/TO MATERIALS HANDLING,  
MACHINE GUARDING, WELDING, ELECTRICAL EQUIPMENT/TO HAZARDOUS  
MATERIALS, AIR CONTAMINANTS, NOISE AND RADIATION.

IN THE AREA OF TOXIC MATERIALS ALONE/ THERE ARE EXPOSURE  
STANDARDS/ FOR MORE THAN 500 SUBSTANCES.

A THIRD SOURCE OF OSHA STANDARDS/ ARE THOSE PROMULGATED BY THE  
SECRETARY OF LABOR/ AS EMERGENCY,/ REVISED/ OR ENTIRELY NEW. THE  
ASBESTOS STANDARD EFFECTIVE JULY 7, 1972,/ IS AN EXAMPLE OF THIS.

SLIDE 1 - OFF

BECAUSE OF THE SCOPE AND COMPLEXITIES OF SAFETY AND HEALTH  
MATTERS,/ THE 1970 ACT ESTABLISHED A RESEARCH FACILITY/ WITHIN THE  
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE/ TO ADVISE THE  
SECRETARY OF LABOR. THIS ORGANIZATION IS THE NATIONAL INSTITUTE  
OF OCCUPATIONAL SAFETY AND HEALTH / NIOSH./ ESSENTIALLY, THIS  
GROUP WAS FORMERLY THE OCCUPATIONAL SAFETY AND HEALTH SECTION/  
OF THE U.S. PUBLIC HEALTH SERVICE/ WITH WHOM WE HAVE HAD CLOSE  
AND SATISFACTORY RELATIONSHIPS FOR MANY YEARS,/ UNDER THE ACT,  
HOWEVER,/ NIOSH HAS A BROADER SCOPE OF RESPONSIBILITY/ AND MUCH  
MORE AUTHORITY. FORMERLY THEY HAD TO OBTAIN INDUSTRY'S WILLING  
COOPERATION/ <sup>///</sup> ON THEIR HEALTH RESEARCH EFFORTS.

SLIDE 8 - ON

NOW/ THEY HAVE THE AUTHORITY TO REQUIRE:

1. THE REPORTING OF EXPOSURE MEASUREMENTS
2. THE REPORTING OF HEALTH EXAMINATIONS AND TESTS
3. INDUSTRY-WIDE STUDIES OF CHRONIC LOW LEVEL EXPOSURES.
4. THEY CAN CONTRACT WITH RESEARCH ORGANIZATIONS - ACADEMIC, INDUSTRY AND STATE/TO UNDERTAKE THESE PROJECTS.
5. THEY HAVE THE RESPONSIBILITY TO ADVISE EMPLOYERS AND EMPLOYEES REGARDING THE TOXICITY OF ANY SUBSTANCE. (C/W AND ON SLIDE TO ANY)

SLIDE 8 - OFF

ONE OF THE MOST IMPORTANT FUNCTIONS OF NIOSH/IS TO DEVELOP AND RECOMMEND TO THE SECRETARY OF LABOR/CRITERIA DOCUMENTS / FOR NEW OR REVISED STANDARDS.

THE FIRST CRITERIA DOCUMENT THAT NIOSH DEVELOPED/UNDER THEIR NEW AUTHORITY/WAS THAT FOR ASBESTOS FIBER.

WHY ASBESTOS FIRST?/ AN INTERESTING QUESTION./ NIOSH HAS A 5 FACTOR FORMULA/ FOR ESTABLISHING THE PRIORITY OF THEIR EFFORTS. WE HAVE BEEN PRIVATELY ADVISED/ THAT ON THIS BASIS / ASBESTOS FIBER WAS RANKED 11TH.

HOWEVER,/ UNDER CONSIDERABLE PRESSURE FROM THE AFL-CIO, THE SECRETARY OF LABOR ISSUED AN EMERGENCY/ TEMPORARY STANDARD FOR

ASBESTOS ON DECEMBER 7, 1971. THIS LOWERED THE INITIAL OSHA STANDARD OF 12 FIBERS PER CUBIC CENTIMETER/TO 5 FIBERS PER CC. THIS ACTION BY THE SECRETARY/SET INTO MOTION -

1. HIS REQUEST TO NIOSH FOR A CRITERIA DOCUMENT, 2. THE APPOINTMENT OF AN ADVISORY COMMITTEE TO REVIEW ALL RECOMMENDATIONS, 3. THE SETTING OF DATES FOR PUBLIC HEARINGS/ AND FINALLY THE PROMULGATION OF A PERMANENT STANDARD/ WITHIN 6 MONTHS./

IN DEVELOPING THE ASBESTOS CRITERIA DOCUMENT/ THE NIOSH STAFF REVIEWED THE FINDINGS OF THEIR 8 YEAR STUDY OF THE ASBESTOS INDUSTRY/ (IN WHICH WE HAD COOPERATED VOLUNTARILY),/ THEY SEARCHED THE WORLD SCIENTIFIC LITERATURE,/ AND CONSULTED WITH A SMALL AD HOC ADVISORY COMMITTEE/ WHICH INCLUDED OUR MEDICAL CONSULTANT, DR. GEORGE WRIGHT. ON OUR INITIATIVE,/ ~~BERT JOBE~~ ~~AND~~ SEVERAL OF US MET WITH DR. KEY,/ THE DIRECTOR OF NIOSH,/ TO PROVIDE SOME INDUSTRY INPUT.

THE STORY IS MUCH LONGER THAN THIS/ AND MANY MORE J-M PEOPLE WERE DEEPLY INVOLVED,/ BUT IN OUR OPINION,/ THE NIOSH CRITERIA DOCUMENT/ SUBMITTED TO THE SECRETARY OF LABOR/ WAS NOT REASONABLE,/ PRACTICAL,/ SOUNDLY BASED/ NOR TO OUR LIKING.

NEITHER WERE THE RECOMMENDATIONS OF THE SECRETARY OF LABOR'S ADVISORY COMMITTEE/ WHICH WAS APPOINTED TO REVIEW THE NIOSH CRITERIA DOCUMENT.

SUBSTANTIAL J-M AND INDUSTRY INPUT WAS DEVELOPED, / PRESENTED /  
AND WRITTEN INTO THE RECORD / AT THE PUBLIC HEARINGS CONDUCTED  
BY THE DEPT. OF LABOR / IN WASHINGTON / IN MARCH.

THE CREDIT LIST OF THOSE J-M'ERS WHO SPENT HOURS, DAYS AND  
EVEN WEEKS IN THESE EFFORTS IS TOO LONG TO <sup>L/57</sup> READ HERE / BUT IT  
INCLUDED SEVERAL <sup>OF OUR</sup> CORPORATE VP'S / AND MANY OTHER MANAGEMENT  
PERSONNEL.

SLIDE 9 - ON

THE ACT REQUIRES THAT ALL STANDARDS NEWLY DEVELOPED BY OSHA /  
WILL PRESCRIBE:

LABELS THAT WARN EMPLOYEES OF ALL HAZARDS /  
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR SAFE USE /  
METHODS AND INTERVALS FOR MEASURING AND RECORDING  
EMPLOYEE EXPOSURE /  
TYPE AND FREQUENCY OF MEDICAL EXAMINATIONS AND TESTS /

ON JUNE 7TH / THE SECRETARY OF LABOR PROMULGATED THE FIRST  
OSHA DEVELOPED STANDARD - THE PERMANENT STANDARD FOR  
ASBESTOS FIBER / - WHICH INCLUDED ALL OF THESE FACTORS.

SLIDE 9 - OFF

SLIDE 10 - ON

EFFECTIVE JULY 7, <sup>1972</sup>~~1972~~, THE THRESHOLD LIMIT VALUE FOR  
ASBESTOS/IS 5 FIBERS PER CUBIC CENTIMETER FOR AN 8 HOUR TIME  
WEIGHTED AVERAGE/WITH A CEILING LIMITATION OF 10 FIBERS PER CC.

ON JULY 1, 1976, THE TLV IS <sup>2.5</sup>~~2~~ FIBERS PER CC - AN 8 HOUR TIME  
WEIGHTED AVERAGE/WITH A CEILING OF 10 FIBERS PER CC.

THERE ARE SPECIFIC STANDARDS AND REQUIREMENTS/SPELLED OUT IN  
DETAIL/ FOR:

EXHAUST VENTILATION/  
RESPIRATORY EQUIPMENT AND PROTECTIVE CLOTHING/  
LABELS AND WARNING SIGNS/  
ENVIRONMENTAL MONITORING AND RECORDS/  
MEDICAL EXAMINATIONS,/ TESTS AND RECORDS/  
EMPLOYEE NOTIFICATION AND ACCESS TO RECORDS/

AT A RECENT WASHINGTON MEETING WITH OSHA STANDARDS AND COMPLIANCE  
MANAGEMENT PERSONNEL,/ WE OBTAINED VERBAL APPROVAL/TO USE OUR  
PRESENT INVENTORY OF J-M LABELLED CONTAINERS AND BAGS/BEFORE  
CHANGING TO THE NEW LABEL REQUIRED/AS WELL AS CONCURRENCE ON OUR  
INTERPRETATION/OF SEVERAL OF THE REQUIREMENTS.

SLIDE 10 - OFF

OTHER CRITERIA DOCUMENTS/ALREADY IN PREPARATION WILL HAVE  
SUBSTANTIAL IMPACT ON OUR<sup>INDUSTRY TERMS OF INDUSTRY</sup> OPERATIONS, AS WELL, THESE WILL BE  
READY FOR THE SECRETARY OF LABOR TO REVIEW/WITHIN THE NEXT  
6 TO 12 MONTHS. AMONG THESE ARE HEAT STRESS,/ NOISE,/ SILICA,/ LEAD,/ TOLUOL AND FIBER GLASS.

FROM OUR ASBESTOS STANDARD EXPERIENCE,/ IT IS OBVIOUS THAT THE  
TIME AND TALENTS OF MANY ~~TEAM~~ ARE ESSENTIAL TO THE PROTECTION  
OF OUR INTERESTS/<sup>AND I'M SURE YOURS!</sup> THROUGH THE DEVELOPMENT OF VALID,/ PRACTICAL  
OSHA STANDARDS.

IN ADDITION TO ~~J-M~~ MANAGEMENT'S RESPONSIBILITY TO IMPLEMENT  
THE ALREADY ESTABLISHED OSHA STANDARDS/WITHIN THEIR ORGANIZATION,  
EACH OF US HAS, AS WELL, THE RESPONSIBILITY TO DO WHATEVER IS  
NEEDED/TO INSURE THAT OUR BUSINESSES ARE NOT CRIPPLED/ BY  
UNWARRANTED,/ ILL-FOUNDED/ OSHA STANDARDS AND REQUIREMENTS.

<sup>THAT WILL BE</sup>  
IN THE INFORMATION MANUAL/ FURNISHED TO YOU/ WE HAVE INCLUDED OUR  
INTERNAL J-M "OSHA LETTERS" - #8 AND #9. THEY INCORPORATE OUR  
INTERPRETATIONS/ OF <sup>THE</sup> SPECIFIC ASBESTOS STANDARD REQUIREMENTS,/ AS WELL AS J-M POLICY. <sup>WE TRUST THAT THEY WILL</sup> ~~THEY~~ MIGHT BE USEFUL TO YOU AS A  
REFERENCE.

THE RESPONSIBILITY FOR THE CORPORATE ADMINISTRATION/ OF OSHA  
COMPLIANCE/ IS WITHIN MY OFFICE. WE USE THIS FORM OF COMMUNICATION  
TO ADVISE ALL CORPORATE AND DIVISION MANAGEMENT OF THE CURRENT  
AND DETAILED OSHA REQUIREMENTS. <sup>WE TRUST THAT THEY WILL</sup>

<sup>BE USEFUL TO YOU AS A REFERENCE.</sup>

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  $\pm$  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.

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.

## 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 hygienists, 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 &amp; 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.

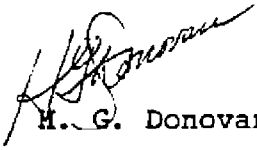
Answer: No great increase

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 Menz. 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