

FILE NAME: Ford (FD)

DATE: 1967-1980

DOC#: FD033

DOCUMENT DESCRIPTION: Memos and Letters RE Internal Sampling Reports

Confidential

Mr. D. Pearson, Manager
Industrial Relations
Heater and AC Plant

Subject: Health Grievance, Mix Room, Heater and AC Plant

As requested, we recently evaluated the mix room operation from the environmental health aspect in response to a union grievance. Airborne particulate matter and vapor samples were obtained at various process locations within the room. In addition, air flow measurements on the exhaust system were performed. Data obtained are listed on the attached sheets.

Ventilation: As indicated on the attached data sheets, exhaust volumes were found to be low in comparison with the rated or designed exhaust system with the exception of the south wall ducts which were up to design capacity. The system that provides air through ceiling diffusers did not appear to be operating during various periods of the study. This was determined by periodically checking the roof inlet of the mix room system. It would appear that the air supply is thermostatically controlled to turn on and off. With the air supply off, the work area tends to become a "dead air space"; this is apparent from the location of the exhaust and supply ducts. Air is exhausted at the sides of the room while fresh air is supplied into the center of the room.

Airborne Particulate Matter: General and breathing zone samples for airborne particulate matter were obtained at various areas of possible concern.

The main floor of the mixing room basically consists of the "wet" mix being automatically cut or sized into "mud" cards. Employees located in the center of the room remove the cut cards and place them on pallets for removal by industrial trucks to various press operations in the plant.

Since the main floor operation is primarily a "wet" process and the levels of airborne nuisance and respirable particulates were within acceptable levels, dust exposure is not considered a potential health hazard at this time.

Operations on the mezzanine consist of several employees periodically opening and dumping bags of the dry constituents into hoppers. Evaluation of the raw materials used indicate that the ingredient asbestos would be of immediate concern. After prolonged inhalation of asbestos dust in excessive concentrations, a form of pneumoconiosis known as asbestosis could occur.

Airborne dust samples obtained during and after the periodic opening and dumping of bags containing asbestos revealed concentrations well within the acceptable level of five million particles per cubic foot of air.

8006 1912

June 2, 1967

The consistency of the asbestos during the study was in a relatively "caked" condition, thus minimizing dust dispersion. Based on observation and dust concentrations obtained, no immediate health hazard was found. As a precautionary measure against the effects of unforeseen process or ventilation control changes, we recommend that preplacement chest X-rays be obtained on personnel assigned to this work and that serious consideration be given to obtaining periodic X-rays on exposed personnel. A review of the other constituents revealed material that is considered to be physiologically inert or of such small quantities as not to be of immediate concern.

Vapor: Exposure to the polyester resin used in the process was evaluated. To our understanding the monomer used for formation of the resin is vinyl toluene. Vinyl toluene is a mixture of the isomers of methyl styrene and has been reported to be similar in toxic properties to monomeric styrene. Exposure to excess vapor concentrations could cause narcotic symptoms, however, the characteristic odor and irritant quality of the vapors makes voluntary exposure to excessive levels unlikely.

The threshold limit value of vinyl toluene is 100 parts per million parts of air (ppm); this is related to worker comfort rather than physiological effect. The characteristic odor is reported to be detectable at 25-50 ppm.

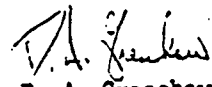
Vapor concentrations and odor were negative in the general area of the mix room indicating adequate ventilation control over the resin mix tanks. The characteristic odor was quite noticeable and vapor concentrations were detectable in the immediate vicinity of the main floor work stations involving removal of the freshly sized "mud" cords for stacking. It was noted that vapor concentrations were reduced only slightly when the overhead air supply was operating indicating that additional dilution air may be needed to bring vapor concentrations within a range whereby employees will not detect the odor as readily.

Other Items or Exposure: As you know, precautions in avoiding repeated skin contact with the resin is recommended to prevent drying and irritation of the skin.

The benzoyl peroxide, or lucidol, that is added in the mixing process is known to explode spontaneously. Extreme care in the storing and handling of this material is recommended.

In conclusion, no immediate health hazards were found during the study of the mixing room operation. To insure that employees performing work on the mezzanine have not been exposed to excessive asbestos dust, preplacement and periodic chest X-rays should be taken.

Sufficient and constant dilution ventilation should be provided at the main floor operations for reduction of vapor concentrations to within acceptable comfort levels.


D. A. Greschaw
Industrial Hygienist

cc W. Denhouter, M.D.
L. A. Jackson
T. L. Kopke
Attachment

8006 1913

Data Sheet #1

Heater and AC Plant

Plastic Mixing Room

<u>Location and Remarks</u>	<u>Vapor Concentration in Parts per Million Parts of Air</u>
Threshold Limit Value - Vinyl Toluene	<u>100</u>
<u>Air Supply On</u>	
1. #2 Station - Breathing zone	50-100
2. #1 Station - " "	50-175
3. Approximately 2' above freshly stacked "Mud" cords	200-500
4. End of conveyor - "Mud" cords stacked for hi-lo removal approximately 2" distance.	0-100
5. General area of room	0-10
<u>Air Supply Off</u>	
6. #2 Station - Breathing zone	50-125
7. #1 Station - Breathing zone	50-200
3. Stacked "Mud" cords outside mix room prior to press operations - Approximately 2' above cords	25

8006 1914

Data Sheet #2

Heater and AC Plant

Ventilation

<u>Mix Room Main Floor</u>	<u>Rated Flow in CFM</u>	<u>Approximately Measured Flow in CFM</u>
<u>North Wall</u>		
1. Northwest grill - exhaust	3,333	1850
2. Center " "	3,333	2100
3. Northeast " "	3,333	1700
<u>South Wall</u>		
4. Southeast grills - exhaust	1,333	1300
5. Center " "	1,333	1500
6. Southwest grills	1,333	1600
<u>Six Ceiling Diffusers</u>		
<u>Air Supply</u>	1,333 each	
<u>Mezzanine</u>		
<u>North Wall</u>		
1. Northwest grill - exhaust	2,000	1300
2. Northeast	2,000	
<u>East Wall</u>		
3. East grill - exhaust	2,000	1600
<u>South Wall</u>		
4. Southeast grill - exhaust	665	600
5. Center grill " "	665	610
6. Southwest grill	665	570
<u>West Wall</u>		
7. West grill - exhaust	2,000	----
<u>Air Supply</u>		
<u>Six Diffusers</u>	1,000 each	

Data Sheet #3

Heater and AC Plant

Plastic Mixing Room

<u>Location and Remarks</u>	<u>Total Particulate in Milligrams per Cubic Meter</u>
Threshold Limit Value - Inert Particulates	15.0
1. Station No. 2 - General work area	<1.0
2. Station No. 1 - Breathing zone	2.4

Respirable Dust

<u>Location and Remarks</u>	<u>Million Particles per Cubic Meter</u>
Threshold Limit Value - Asbestos	5.0
1. Station No. 1 - breathing zone	0.5
2. Balcony - Loaders breathing zone during and after dumping of asbestos bag in hopper.	1.2
3. Same as above	1.4

Instrumentation: J & W Super sensitive indicator, Model SSP
MEA Monitaire Pump - 2.7 LPM
Midget impingers - (Standard light field dust count technique)
Millipore holders with Gelman 1½" glass fiber filters
Alnor velometer, Type 3002, No. 25563

8006 1916

PRODUCED BY EPA

File with
info
cut

Henry H.C. Punt.

5-67
M30-18 Compound

Calcium Carbonate (M98B35)

~36%

Thompson-Winchman

CARTERSVILLE, GEORGIA

Local Contact: C.M. STRAITH

McNICHOLS, DET.

Asbestos (M-99654)

~22%

Carey - Canadian Mines Ltd.

EAST BRUNTON, QUE.

(CANADIAN STRANCO T.T.S.)

Zinc Stearate (M97B13)

<2%

WILCO Chemical

CHICAGO, ILL

Iron Oxide (M10A10)

≤1%

Baker, Colwellson

MT. ELLIOT RD.

MICH.

Sisal (M99H60)

~10%

Stranaco-Union

Fibre Co.

PHILADELPHIA 34, PA

Polyester Resin (Vinyl Toluene) (M3040-A)

~3%

a) Fozo Mura - Paint Chemical Div.

b) Marco Chemical, SWANSON, OHIO

c) Freeman Chemical, Port Washington, WISCONSIN

Benzoyl Peroxide (

<1%

BUCIDOL DIV.

TONAWANDA, N.Y.



Inter Office

Personnel and Organization Staff

6-10-81
Sheldon Road
Dit

June 9, 1981

W. H. Hopeman

Subject: Mix Room Cleaning

Reference: Report of Contact; same subject dated May 27, 1981

With regard to the referenced report, the following is in order:

During the phone conversation it was indicated to me that the mix room had not been in use for some time and during its shutdown had been cleaned once. It was further indicated to me that asbestos contamination existed in the duct systems as measured by Industrial Hygiene and Toxicology.

It was discussed that a two stage cleanup was a reasonable approach irrespective of a contractor or Ford employees doing the work. The first stage would be to remove the ducts currently contaminated with asbestos. Wet methods would be used and other precautions indicated by Industrial Hygiene and Toxicology would be followed. After duct removal, areas that might have been recontaminated with asbestos would be addressed by Industrial Hygiene and Toxicology and, if indicated, properly cleaned as the second state of cleaning.

The discussions on May 27, 1981 was related to a reasonable approach to removal of asbestos from the area by removing the most heavily contaminated materials (ducts) first. If indicated by Industrial Hygiene and Toxicology, a complete cleaning of the mix room would still be in order.

L. M. Roslinski

cc F. E. Allen
R. P. Doherty
W. G. Atkins
E. J. Tennant
G. J. Kania
P. E. Tobth
H. B. Lick

LMR/bl

8006 1918

Mr. Toth



Inter Office

Personnel and
Organization Staff

November 17, 1980

Mr. J. E. Tennant
Division Safety Engineer
Climate Control Division
Sheldon Road Plant

Subject: Dust Studies - Sheldon Road Plant

Our records indicate dust studies were conducted at the Sheldon Road Plant on the following dates:

1-7-76	Asbestos Study
4-4-75	" "
12-11-74	" "
10-30-73	" "
3-16-73	" "
3-13-73	" "
6-5-72	" "
2-23-72	" "
11-15-71	" "
8-21-70	" "
3-31-70	" "
7-13-67	Collector Efficiency Study
6-2-67	Dust Study

If you need any details on any of these, please let me know.

Paul E. Toth

Paul E. Toth, Manager
Industrial Hygiene & Toxicology Department
Employee Health Services

jb

8006 1919



Inter Office

Climate Control Division

W. E. Hornberger

cc G. R. Burkhardt

Subject: Sheldon Road Plant - Asbestos Exposure Medical Surveillance Program

At the request of the local union, a meeting was held on October 31, 1980 to review the current status of providing physical examinations to employees who were exposed to asbestos.

In attendance were:

<u>Company</u>	<u>Union</u>
W. G. Atkins	Earl Taylor
J. E. Tennant	Frank Iannello

The following items were discussed:

1. It is the Union's contention all employees who worked at the Sheldon Road plant, prior to the discontinuance of the use of asbestos, were exposed to asbestos and, should be given physical examinations as specified in section 1910.1001 of the OSHA requirements and Ford Medical Services Bulletin #63 dated May 19, 1980.
 - . Industrial Hygiene evaluations indicate employees working in the Mix room, polyester presses, deflashing and sanding operation and drilling machine operations were exposed above the 0.1 fibers greater than 5 microns in length per cubic centimeter.
 - . No analysis of the general plant air is available, therefore, we are not in a position to dispute the Union's claim that all employees may have been exposed to asbestos above the allowable limit.
2. The Union inquired if there are any studies available that indicate the employee incidence rates of cancer of Sheldon Road Plant employees vs. the general population.
 - . Advised the Union we were not aware of any studies.

Program implementation proposal. (Not discussed with Union).

- A. Industrial Hygiene identified 47 employees who were exposed to asbestos in excess of 0.1 fibers/cc
 - . These employees will be scheduled for physical examinations as required by OSHA regulations.

8006 1920

B. In addition to those employees listed by the Industrial Hygiene records a review of the employment records have been made and 259 employees have been identified as potentially exposed to asbestos. This does not include skilled trades, supervision and other salaried employees who may have been exposed to asbestos.

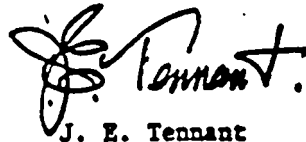
C. What steps should be taken if an employee claims an exposure to asbestos?

- . Have the employee notify medical of the job where the alleged exposure occurred and the approximate dates on the job.
- . Verify by reviewing employment records, medical records to determine if there was an exposure.
- . If it is determined the employee was on a job where there was an exposure they should be added to the medical surveillance program.
- . If it is determined the employee was not exposed they should be notified.
- . What steps should be taken if the employee does not agree with the determination? Who should handle disagreements?

D. Any employee who terminates employment for any reason and has been identified as having an exposure to asbestos shall have a physical examination.

- . There is no requirement for follow-up annual examinations after termination.
- . Medical records must be maintained for at least 20 years.

It is proposed this communication be reviewed with the Corporate Medical and Industrial Hygiene Office.


J. E. Tennant

8006 1921

(Section A to be completed by employee)

Date _____ Dept. _____

Name _____ SS# _____

Classification _____ Department _____

Name of Supervisor _____

Dates on job: From _____ to _____

Operation performed: _____

Date and type of last Sheldon Road Plant physical _____

Investigation

[illegible]

Disposition

[illegible]

Employee notification date:

Disposition given to employe by:

cc: Medical Record

STATE OR FEDERAL OSHA INSPECTION

1 4-16 80

Plant or Activity: Sheldon Road Plant

Governmental Safety or Health Agency Represented: Michigan Department of Public Health

Inspector's Name: Warren Harding Title: Engineer

Date(s) of Visit: April 9, 1980 Total Hours in Plant: 2.5

Purpose of Visit: Routine Inspection Accident
 X Employee Complaint Union Complaint
 Other

If employee or union complaint, what was it? Copy attached

Were citations issued immediately as a result of the inspection? Yes X No

Did inspector indicate that citation would be issued? Yes X No

What operations or equipment, if any, were or might be cited? (Describe each violation)
 None

What violations, if any, were posted in area? None

What recommendations were made? None

List other comments pertinent to the inspection. Reviewed drill operation (8817)
to determine if there was an asbestos exposure. A copy of the 1866, Manufacturing
Specification, was reviewed, and the inspector was satisfied no asbestos was contained
in the product. The Union representative also agreed that there has been no asbestos
used since the 1976 model year started. The old mix room, now a maintenance shop,
was reviewed, and the inspector was satisfied that the cleaning performed in July,
1979, eliminated any potential exposure to asbestos.

Were instruments used to monitor equipment? Yes ☒ No (If yes, explain, list
instruments used, results.)

Names and titles of persons accompanying inspector.

Bonnie Skowronek, Supervisor, Personnel Services

James Tennant, Division Safety Engineer

Earl Taylor, Chairman, UAW Local 845

Prepared By: B. L. Skowronek
B. L. Skowronek

Date: April 9, 1980

8006 1924

Send the completed form to:
Michigan Department of Public Health
Occupational Health Division
3500 North Logan Street
P.O. Box 30035
Lansing, Michigan 48909

PLEASE TYPE IF POSSIBLE

FOR OFFICIAL USE ONLY			
Date Rec'd.	District #	Referred To	File #
3/31/80	5	D. Burgess	50C116

COMPLAINT OF OCCUPATIONAL HEALTH HAZARDS

This form is provided to assist in registering a complaint concerning occupational health hazards or a request for a health hazard evaluation.

1. Establishment Ford Motor Company (Sheldon Road Plant)
Street 14425 Sheldon Road Telephone 455-0600
Company Plymouth, MI
Address City Plymouth, MI County Wayne Zip Code 48170
2. Name, title and phone number of employer's agent(s) in charge _____
3. Principal company activity Manufacturing Heaters and a/c
(Manufacturing, construction, transportation, services, etc.)
4. Specify the particular building, department or worksite where the potential hazard is located, including the address if different from above
Department 8817 and small area about 200 feet north
5. Describe briefly the hazard(s) by completing the following information:
Identification of hazard or toxic substance(s) asbestos particles
(If a chemical substance, provide manufacturer's name and address, product name and/or identification number if known) _____
Hazard: ☒ Dust ☐ Noise ☐ Gas ☐ Liquid ☐ Mist ☐ Fume ☐ Vapor ☐ Other
Type of exposure? ☒ Breathing ☒ Skin contact ☐ Other
Number of people exposed ? Length of exposure (hours/day) 8
6. Type of work or location of exposed employees drill press area and filter
7. Describe the conditions or circumstances which prompted this request and other relevant information, such as the nature of the illness or symptoms of exposure, the concern for the potentially toxic effects of a new chemical substance, etc. concern caused by a number of cancer deaths in recent past from this plant
8. Is this request or complaint alleging a similar hazard, being filed with any other governmental agencies? If so, give the name and address of each.
no

MANUFACTURING SPECIFICATION																															
(1) PLANT Sheldon Road	(3) PART NAME 																														
(2) RELEASE NO. AND DATE 	(4) CONTROL ITEM YES ☐ NO ☐																														
(7) MATERIAL SPECIFICATION SAE 1013-D	(5) PART NO. JEG Attached Sheet (6) REFERENCE NO. 02029																														
(8) UPC (9) REPLACES																															
(10) QUALITY CONTROL APPROV																															
(11) ☐ SHEET ☐ STRIP OR ☐ SLIT SHEET ☐ BAR ☐ TUBING ☐ WIRE ☒ CASTING ☐ FORGING ☐ SEMI-FINISHED ☐ OTHER (12) CUT LENGTH ☐ COIL (13) ROUGH WEIGHT-FINISHED WEIGHT See Attached Sheet																															
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(17) SKETCH OF NESTING METHOD - MIX COMPOSITION <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Ford Spec.</th> <th style="width:40%;">Description</th> <th style="width:30%;">Formulation</th> </tr> </thead> <tbody> <tr> <td>1170-10-B</td> <td>Acrylonitrile</td> <td>22.79</td> </tr> <tr> <td>1190-15</td> <td>Catalyst</td> <td>.14</td> </tr> <tr> <td>1190-15</td> <td>Clay</td> <td>3.77</td> </tr> <tr> <td>1190-15</td> <td>Iron Oxide</td> <td>.70</td> </tr> <tr> <td>1190-15</td> <td>Fiberglass</td> <td>4.76</td> </tr> </tbody> </table>		Ford Spec.	Description	Formulation	1170-10-B	Acrylonitrile	22.79	1190-15	Catalyst	.14	1190-15	Clay	3.77	1190-15	Iron Oxide	.70	1190-15	Fiberglass	4.76												
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(21) SECONDARY PRODUCTION (BASIC) MATERIALS USED ON ABOVE PART <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>OPERATION</th> <th>DEPT.</th> <th>M-NUMBER AND DESCRIPTION</th> <th>USAGE/UNIT</th> <th>UNIT MEASUR</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		OPERATION	DEPT.	M-NUMBER AND DESCRIPTION	USAGE/UNIT	UNIT MEASUR																									
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DISTRIBUTE COPIES IN ACCORDANCE WITH FLOW CHART - ATTACHMENT A -
MANUFACTURING PROCEDURE III/8

8006-1926

PQ



Two Way Memo

To

J. Toth

AI

Ind Hygiene

Reference number

668466

M

e

s

s

a

g

e

Signed

To

EDWARD REPPA

AI

Sheldon R. Plant

Date

1-20-76

Sender - Do not write below

R

e

p

I

y

Signed

Sent

Adm

Fee

5967

AI

K/HQ

RM 297

Date

2-26-76

1. RECIPIENT - RETURN TO SENDER WITH REPLY

Attached is a copy of our file relative to
 Causal Research correspondence and data supplied to them.

EOM

2-10-76

8006 1927

PQ

CONSAD

CONSAD RESEARCH CORPORATION
121 North Highland Avenue
Pittsburgh, Pennsylvania 15206
Telephone (412) 363-5500
Cable Address - CONSAD

February 3, 1976

Mr. Edward Reppa
Safety Engineer
Ford Motor Company
14452 Sheldon Road
Plymouth, Michigan 48170

Re: Technological Feasibility and Inflationary Impact
of Proposed Asbestos Standard

Dear Mr. Reppa;

This letter is written to assure you that CONSAD Research Corporation will not associate any data gained from our Employment Inventory Form with the Ford Motor Company. The data requested in our letter dated January 14, will be used as part of an inventory of production personnel on a product/process basis and will be presented in aggregated form with other companies in the same segment of the asbestos using industry. This information is essential to an accurate estimate of the costs of the proposed standard and an assessment of the resulting impacts.

Thank you for your help in this matter.

Sincerely,

Donald E. Matzkie

Donald E. Matzkie
Project Director
DEM:clb

8006 1928

CONSAD

CONSAD RESEARCH CORPORATION
121 North Highland Avenue
Pittsburgh, Pennsylvania 15206
Telephone (412) 363-5500
Cable Address - CONSAD

January 14, 1976

Mr. Edward Reppa
Safety Engineer
Ford Motor Company
14452 Sheldon Road
Plymouth, Michigan 48170

Re: OSHA Technological Feasibility and
Inflationary Impact Analysis - Proposed
Asbestos Standard

Dear Mr. Reppa:

With reference to our conversation on January 13, would you please provide CONSAD with information concerning the number of production personnel employed by product and process at your Plymouth plant.

For consistency with data collected from other firms, Enclosure 1 is attached and defines what we understand to be the various processes by specific asbestos industry category. However, if there are any discrepancies between these process categories and your actual operations, please feel free to note and explain the differences.

Additionally, for your convenience we have attached Enclosure 2, Production Employment Data. You may use this sheet to record your data, or utilize it simply as a guide to the specific type of information we are seeking.

The person to contact concerning our contract with OSHA would be:

David R. Bell
Occupational Safety and Health Administration
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, D. C. 20210

CONSAD

Mr. Edward Reppa
Page 2
January 14, 1976

Mr. Bell can verify that we have received a bona fide contract from OSHA.

The requested information will be used to establish an inventory of production personnel by process in the manufacture of various asbestos products. Your help and timely cooperation is appreciated. If you have any questions concerning this matter, please don't hesitate to contact me personally, extension 55.

We look forward to hearing from you.

Sincerely,



R. Gregg Hillman

RGH:mk
Enclosures

8006 1930

ENCLOSURE 1

Defined Processes by Industry

Asbestos Textiles

Receiving and Warehousing
(Raw Fiber)
Fiber Preparation
Blending
Mixing
 Felting
Carding
Spinning
Twisting
 Coating
Weaving
Braiding
Finishing
Inspection and Packing

Asbestos Friction Materials

Receiving and Warehousing
Mixing (Wet or Dry), specify
Forming (or Manufacturing)
Hot Press (Dry Mix Only)
Curing
Finishing
 Grinding, Drilling, Bonding,
 Riveting
Inspection and Packing

Asbestos Cement Pipe

Receiving and Warehousing
Mixing
Pipe Forming (or Manufacturing)
Curing
Pipe Finishing
Coupling Finishing
Inspection, Packing and Shipping

Asbestos Asphalt, Roofing and Tile

Receiving and Warehousing
Mixing (Wet or Dry), specify
Forming and Coating
Finishing
Inspection and Packing

Asbestos Insulation

Receiving and Warehousing
Mixing
Forming
Curing
Finishing
Inspection and Packing

Asbestos - Rubber

Receiving and Warehousing
Mixing
Calendering
Lining
Forming
Stripping
Grinding
Inspection and Packing