WILLIAM G. MILLIKEN, Governor

MAURICE S. REIZEN, M.D., Director

STATE OF MICHIGAN
DEPARTMENT OF PUBLIC HEALTH
3500 N. LOGAN, P.O. BOX 30035, LANSING, MICHIGAN 48909

Reply to: 7325 Middlebelt
Westland, MI 48185

RW

C# 5490012
#50C-98

PLAINTIFF'S EXHIBIT
PD 1786

May 27, 1980

Ford Motor Company
General Parts Division
Ypsilanti Plant
128 Factory
Ypsilanti, Michigan 48197

Attention: Mr. Peter Zande, Safety and Security Supervisor

Gentlemen:

On April 2, 1980, this Division conducted an investigation in Department 452-5 as a result of an employee complaint. The investigation was conducted in your presence and that of Mr. John Tindall, Employee Health and Safety Representative.

The complaint alleged employee overexposure to airborne asbestos and dust in the Molded Commutator Department. To evaluate the exposure, breathing zone air samples were obtained from employees at the injection molding machine and at the quality control station. The samples were collected on filters using personal sampling equipment and subsequently analyzed for asbestos fibers. Also, an area air sample was obtained to measure total airborne particulate. The sample details and analysis results are shown on attached data sheets. As shown, the exposures determined were within the respective Maximum Allowable Concentration for asbestos fibers and total airborne particulate.

Our program directive number 78-4 which provides an interpretation as to when medical examinations are requred under the asbestos standard, Rule 2205, is attached for your reference.

In conclusion, we determined no violation of Michigan's Occupational Health Standards for General Industry as a result of our investigation.

Very truly yours,

BUREAU OF ENVIRONMENTAL
AND OCCUPATIONAL HEALTH

Henry J. Pyzik, Engineer
Division of Occupational Health

cc: Mr. John Tindall
Mr. Paul Toth
D. L. Block, M.D.

MICHIGAN THE GREAT LAKES STATE

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F007 0176

SCF-FORD-1976

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AIR CONTAMINANT DATA SHEET

Ford Motor Company
Ypsilanti Plant

128 Factory

Ypsilanti, MI 48197

Study date: April 2, 1980 Conducted by: H. Pyzik

Applicable standard for asbestos fibers.

Max. Allowable Concentration 2 fibr/cc 8-hour, time-weighted average | Ceiling Limit 10 fibr/cc in any 8-hour period | Peak Limit ___ min. in ___ hrs.

Sample Identification and Description	Sample Time	Sample Results	Calculated Exposure
Breathing zone of Al Trout, badge #6574, injection mold machine operator. Molded Commutator Department.	10:14 a.m.-12:03 p.m.	0.08 fibr/cc	0.08 fibr/cc
Breathing zone of Wardell Reynolds, badge #4003, quality control inspector. Molded Commutator Department.	12:48 p.m.-13:32 p.m.	0.15 fibr/cc	0.15 fibr/cc

8007 0177

Sampling equipment: MSA personal air sampling pump and millipore filters.

ppm = parts per million
ppb = parts per billion

mg/m^3 = milligrams per cubic meter
fibr/cc = fibers per cubic centimeter

416 (6/75)

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AIR CONTAMINANT DATA SHEET

Ford Motor Company
Ypsilanti Plant

128 Factory

Ypsilanti, MI 48197

Study date: April 2, 1980 Conducted by: H. Pyzik

Applicable standard for total airborne inert particulate.

Max. Allowable Concentration 15 mg/M^3 Ceiling Limit -- Peak Limit --
8-hour, time-weighted average in any 8-hour period __ min. in __ hrs.

Sample Identification and Description	Sample Time	Sample Results	Calculated Exposure
Commutator Department Injection Mold Machine	10:35 a.m.- 12:05 p.m.	0.06 mg/M^3	0.06 mg/M^3

5337 2173

Sampling equipment: MSA personal air sampling pump and vinyl metricel filter.

ppm = parts per million
ppb = parts per billion

mg/m^3 = milligrams per cubic [illegible]
fibr/cc = fibers per cubic centimeter

FM 410 (5/78)

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Michigan Department of Public Health
Bureau of Environmental and Occupational Health
Division of Occupational Health
3500 North Logan
Lansing, Michigan 48909

November 17, 1978

Michigan Occupational Health Program Directive No. 78-4

TO: Division of Occupational Health Staff

SUBJECT: Minimum Airborne Fiber Concentration for Initiating and Continuing Asbestos Medical Examinations

1. Purpose

To provide uniform inspection and compliance procedures for the medical examination requirement in the asbestos standard, Michigan Rule 2205 (10)(b)(c) or (d).

2. Documentation Affected

DOH Staff memorandum dated March 24, 1977 to Regional Chiefs, District Engineers, Section Chiefs and Al Vander Kolk. Subject: Medical Examination Requirements for Workers Exposed to Asbestos.

3. Background

In Rule 2205 (10)(b)(c) or (d), Medical Examinations, the terminology "....exposed to airborne concentrations of asbestos fibers...." has been the subject of considerable discussion and debate as to the meaning or interpretation of "airborne concentrations".

4. Action

a. Definition. In Rule 2205 (10(b)(c) or (d), Medical Examinations, the terminology "...exposed to airborne concentrations of asbestos fibers..." is administratively interpreted to mean exposed to a minimum of 0.1 asbestos fibers longer than 5 micrometers per cubic centimeter of air, as determined by the sampling method prescribed in the "Outline of Sampling and Analytical Procedures" using a millipore filter at a flow rate of 2 liters/minute. The phrase "fibers longer than 5 micrometers per cubic centimeter of air" shall hereinafter be abbreviated as "fibers/cc."

8007 0179

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b. Scope and Applicability. Medical examinations as per Rule 2205 (10)(b)(c) or (d) will be required for any seven to eight-hour time-weighted average concentration of 0.1 fibers/cc, or for a greater concentration.

c. Sampling information.

(1) Sampling procedures will be as follows:

(a) Exposure to asbestos dust with low levels of contamination (e.g., mixed with other minerals).

1) For exposures to dust that are expected to be below the permissible exposure limits, the same filter should be used for the entire shift, but no longer than eight hours.

2) For exposures expected to be at or above the permissible exposure limit, several samples may be required during the shift to avoid overloading the filters.

(b) Exposures to asbestos dust with high levels of contamination.

1) Several samples may be required during the shift to avoid overloading the filter.

2) Filters should be changed only after a minimum of one hour of sampling time for exposures expected to be close to 0.1 fibers/cc. Seven or eight one-hour samples can be collected during the day.

d. Examples of types of violations.

(1) Where an employer does not provide the required medical examinations, and an employee is exposed to 0.1 or more fibers/cc, it would be considered a "serious" violation of Rule 2205 (10)(b)(c) or (d).

(2) For definitions and guidelines on "repeated", "wilful", or "failure to correct", see Operations Manual, Chapter IX.

5. Effective Date

This directive is effective immediately and will remain in effect until further notice.

Irving H. Davis

Irving H. Davis, P.E., Chief
DIVISION OF OCCUPATIONAL HEALTH

Distribution: DOH Compliance and HEAT Staff
DOH Section and Regional Chiefs
BE&OH Chief, Deputy Chiefs and Division Chiefs

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