

6

File Code

Date

February 20, 1973

To—Name & Department

Division

Plant/Office

CIMS Number

H. T. Engelbrecht
Plant
Manager

Basic Mfg.

Eldon Avenue Axle Pla

440-14-01

From—Name & Department

Division

Plant/Office

CIMS Number

L. Redmond
Industrial Hygiene

Personnel

Chrysler Center

417-05-19

Subject:

Asbestos Survey - Departments 78, 80, and 81

As required by Section 1910.93a, Asbestos, promulgated in the OSHA standards, a semi-annual survey was performed by the writer on February 6 and 7, 1973, to determine airborne concentrations of asbestos dust. Environmental and personal monitoring were performed as required by this regulation. Results obtained during this survey are listed on the attached data sheet.

Discussion

The OSHA standard states that the eight hour time-weighted average airborne concentration of asbestos fiber to which any employee may be exposed shall not exceed five fibers, longer than five micro-meters, per cubic centimeter (cc) of air. On July 1, 1976, a limit of two fibers per cc will become effective. As indicated by the data all fiber concentrations were below both the present and future requirements, therefore, no corrective action is required.

At the time of this survey we were informed that the Centri-spray wet dust collector will be replaced by a dry bag type collector, having an 8000 to 8500 cubic feet per minute capacity.

The 1910.93a Section stipulates that asbestos waste be collected and disposed of in sealed, impermeable bags or other closed impermeable containers. Caution labels must be affixed to all waste asbestos containers and to the dust collector clean out door.

Respiratory protection will be required for employees removing bags of waste material from the dry type dust collector. The continuous flow air line respirator (NPSP-226) is the type needed for this operation. Respirators must be cleaned and sanitized as described in the Corporate Respiratory Protection Program. The air line supplying this respirator must be

tested for carbon monoxide gas concentration on a monthly basis. Records must be kept indicating the results of these tests.

Louis Redmond
Louis Redmond
Industrial Hygienist

hm
Attachment

cc: W. F. Bavinger
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E. A. Garma, M. D.
R. T. Gaskill
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R. D. McIntosh, M. D.
R. H. Miller
E. B. Nelson
R. C. Sprague
W. C. Turland

Data Sheet
Eldon Avenue Axle Plant

Asbestos Dust Concentrations

<u>Location</u>	<u>Number of Fibers per Milliliter of Air</u>
Threshold limit value	5.0
<u>January 21, 1972:</u>	
X-L-O Grinder 55-0137, Mr. Thomas Wrybkowski, 6842	0.2
Rockwell-Delta-Belt Sander, west of grinder P-2641, Mr. Emil Zreliak, 2093	3.9
X-L-O Grinder P-2641, Mr. Raymond Houle, 7667	0.2
Belt Sander 31-723, Mr. Eli Griffin, 2430	1.2
X-L-O 55-0140, Mr. Sylvester Bogel, 8495	0.4
X-L-O Grinder P-2642, Mr. Emil Zreliak, 2093	0.3
X-L-O Grinder 550134, Mrs. Bernice Worthy, 3352	0.3
<u>December 15, 1971:</u>	
X-L-O Grinder 55-143, Mr. Ben Jaroneski, 3524	0.8
X-L-O Grinder 55-0143, Mr. Ben Jaroneski, 3524	1.1
X-L-O Grinder 55-0133, Mr. Ben Jaroneski, 3524	0.8
X-L-O Grinder 55-0133, Mr. Ben Jaroneski, 3524	0.5
X-L-O Grinder 55-0136, Mr. Thomas Wrybkowski, 6842	0.8
X-L-O Grinder 55-0136, Mr. Thomas Wrybkowski, 6842	1.6
X-L-O Grinder 55-0135, Mr. Thomas Wrybkowski, 6842	0.3
No.1 Belt Sander, Mr. Sylvester Bogel, 8495	1.6
No.1 Belt Sander, Mr. Sylvester Bogel, 8495	2.1
X-L-O Grinder 55-0135, Mr. Thomas Wrybkowski, 6842	1.1

The samples were obtained with membrane filters and a Unico Pump,
Model 30.

File Code

Date

January 28, 1972

Name
H. T. Engelbrecht

From - Name
L. Redmond

Department
Plant Manager

Division
Basic Mfg.

Plant/Office
Eldon Avenue Axle Plant

CIMS Number

Department
Industrial Hygiene Personnel

Division

Plant/Office
Highland Park

CIMS Number

Subject:

Asbestos - Department 78

Because of the promulgation of an asbestos emergency standard by the U. S. Department of Labor on December 7, 1971, the atmosphere in Department 78 was sampled by the writer on January 21, 1972, for the purpose of determining asbestos levels. Previously, airborne concentrations of asbestos dust were determined at five brake shoe grinders in this department on December 15, 1971 and the most recent survey was performed to obtain additional data. One of the requirements of the emergency standard is that personal monitoring be performed. Thus, the results and the names of employees whose work environments were evaluated are listed on the attached data sheet. Results of the December 15 survey are also listed.

Discussion

The emergency standard has established a threshold limit value for asbestos dust of 5.0 fibers greater than 5 microns in length per milliliter of air. As indicated by the results obtained during the two surveys, the asbestos dust concentrations at all work stations sampled were below the threshold limit value. Fiber counts ranging from 0.2 to 3.9 fibers per milliliter of air were obtained.

Since the standard stipulates that asbestos dust shall be removed by vacuum cleaners only and that asbestos waste and scrap shall be collected and disposed of in sealed bags or other closed containers, it is recommended that all air blow-off guns be removed from the brake shoe grinding machines and that vacuum cleaners be utilized to perform cleanup operations.

Pr J. Dagenais:

Louis Redmond

3-1-72 answer is in the mail

Louis Redmond
Industrial Hygienist

hm

Attachment

L.R.

cc: W. F. Bavinger R. D. McIntosh, M.D.
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W. T. Diehl J. G. Shepherd
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J. J. Hayes
F. G. Mautte

Data Sheet
Eldon Avenue Axle Plant
FEB. 6, 7, 1973
Asbestos Dust Concentrations
~~SEPT~~

<u>Location</u>	<u>Fibers per Cubic Centimeter *</u>
Eight hour time-weighted average for fibers longer than five micrometers	5.0
Department 78;	
XLO grinder 55-143 (Ben Jaroneski)	0.3
XLO grinder 55-0134 (Raymond Houle) (Dorothy Jackson)	0.4
Belt sander, southeast corner of grinder area	0.5
XLO grinder 55-0137 (Tom Wrybkowski)	0.5
XLO grinder P-2612 (Sylvester Bogel)	0.9
Belt sander 31-723 (Dorothy Jackson)	1.4
At #4 brake shoe oven, exit end, general air	0.8
At #1 brake shoe oven, exit end, (John Shumake)	1.0
Brake shoe transfer to XLO 55-0133, general air	0.2
West side of #1 brake shoe oven, transferring shoes, general air	0.4
Cement application room, loading applicator, (Alfred Zanojcin)	0.5
At #1 brake shoe oven, entrance end (Kenneth Johnson)	0.8
At #2 brake shoe oven, entrance end (Henry Shanks)	0.3
At #4 brake shoe oven, entrance end (Mike Dawson)	0.4
XLO grinder 55-0133 (Stanley Scott)	0.3
XLO grinder 55-0137 (Beverly Autry)	0.5
XLO grinder 55-0141 (Sam Polito)	0.4
XLO grinder 55-143 (Stanley Szott)	0.3
Belt sander 31-723 (Odell Lillard)	0.7
Belt sander, southeast corner (Kern Shadrock)	0.5
Storage area for brake linings, general air	0.5
Brake shoe transfer to XLO 55-0133, general air	0.1
Department 80;	
Line 8, brake assembly, placing brake shoes on plate	1.0 (Dorothy Brown)
Line 5, brake assembly, placing brake shoe on plate	0.3 (Irene Wrack)
Shoe and lever machine #2 (Gerald Lamb)	0.5
Line 6, brake assembly, placing brake shoes on plate	0.9 (Carolyn Will)
Gangler machine #2 (Audrey Latimore)	0.5
General air sample, brake assembly area	0.2
Department 81;	
Brakes assembled to axles, Valiant line (Benj. Johnson)	0.3
General air, east side of conveyor along Valiant line	0.1
Brakes assembled to axles, 8½ line (Oliver Strickland)	0.1
General air, west side of conveyor along 8½ line	0.4
Brakes assembled to axles, Chrysler line (James Shorter)	0.2
General air, west side of conveyor, Chrysler line	0.1

* The samples were obtained in the breathing zone of employees except where general air samples are indicated.

Monetaire pumps and membrane filters were used to obtain the samples.

7