



Inter Company Correspondence

To: Name of Recipient

File

Date

12/6/74

From: Name of Originator

Company Name

File No.

From: S. C. Enders

Plant Manager

Assembly Trenton Chemical 153-030

From: Name of Recipient

D. P. Glazier

Industrial Hygiene

Personnel Ofc Chrysler Center 117-05

Subject: ASBESTOS SURVEY



During the months of October and November, 1974, the writer conducted a semi-annual survey at the Trenton Chemical Plant, as required by Section 1910.20 of the Occupational Safety and Health Administrations Rules and Regulations. The results of the survey are listed on the attached data sheets opposite the corresponding job description.

Sample (20) indicated an employee exposure in excess of the current asbestos standard at the proof testing station on the McPar line. Additional air samples taken at this work station, (see 21 and 22 on the data sheet), indicate an average asbestos fiber concentration which is lower than the present standard, but higher than the 1976 standard. It is evident that local exhaust ventilation will be required at the proof testing station in order to meet the 1976 threshold limit value.

It should be noted that samples (24) and (25) are also in excess of the 1976 standard. The inspector on the #1 disc brake pad grinder line (Sample 24) used a knife-like instrument to scrape the edge of the finished disc brake pad. This practice was not observed on the adjacent grinder lines, and it is recommended that this employee discontinue scraping the disc brake pads. It was observed that the employee loading the #3 disc brake pad grinder line performed dry sweeping of asbestos dust which had accumulated on the #3 grinder. Dry sweeping of asbestos dust is prohibited. Vacuum cleaning of asbestos waste material will prevent excessive airborne concentrations of asbestos dust.

The major area of concern at the Trenton Chemical Plant is in the Friction Products Building at the skip hoist and lodge mixer area. Sample (42), skip hoist loading and weighing, indicates an employee exposure in excess of the 1976 two fiber per cubic centimeter standard. Installation of an overhead slot-type hood capable of providing a minimum capture velocity of 100 feet per minute is required at the loading station on the skip hoists. (See L. P. Gendernalik's letter of November 25, 1974).

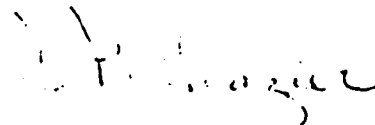
Air samples obtained during the loading of the #4 lodge mixer indicate airborne asbestos concentrations in excess of 3 to 4 times the current asbestos threshold limit value. The #4 lodge mixer loading operation is performed on an intermittent basis for a period of roughly ten minutes. The employee performing this operation

wears an air purifying type respirator. In terms of OSHA compliance, this type of respirator is sufficient for average airborne concentrations of asbestos fibers which are reasonably expected to exceed no more than ten times the current standard.

Personal protective equipment may be used to achieve compliance with Section 1910.93a during the time period necessary to install engineering controls. Industrial Hygiene Services recommends the following control measures for the #4 lodge:

1. Enclose the #4 lodge mixer duct work opening in the floor of the mezzanine.
2. Regular vacuum cleaning of the mezzanine area and the #4 lodge mixer.
3. Sealing of any leaks found in the #4 lodge or its corresponding ductwork.
4. Consistent use of the canvas curtains already present at the exit of the #4 lodge ductwork.

All of the remaining asbestos fiber concentrations were found to be below present and future requirements. No corrective action is recommended for these areas.



D. P. Chazler
Industrial Hygienist

and

cc: G. D. Benson
R. F. Bowers
D. L. Eschbach
J. A. Lardie
E. R. Lombard
N. McCallum
G. A. Sattelmeyer

Asbestos Survey
October and November 1976

<u>Job Description</u>	<u>Asbestos Fiber Concentrations *</u>
Current O.S.H.A. Standard	5.0
1976 O.S.H.A. Standard	2.0
Friction Products Building	
(1) Personal air sample, #1 Bipel operator	0.11
(2) General air sample, Bay F4, between #1 and #2 Bipel Machines	0
(3) Personal air sample, #1 hot press operator, (hot press operators also transfer disc brake asbestos to the Bipels)	1.09
(4) Personal air sample, #2 Bipel operator	0.78
(5) Personal air sample, #2 hot press operator	1.13
(6) Personal air sample, #3 Bipel operator	1.15
(7) Personal air sample, #3 hot press operator	1.61
(8) Personal air sample, #4 Bipel operator	1.58
(9) Personal air sample, #4 hot press operator	0.62
(10) Personal air sample, #6 Bipel operator	0.63
(11) Personal air sample, #7 Bipel operator	1.28
(12) Personal air sample, #7 hot press operator	0.64
(13) Personal air sample, #8 Bipel operator	0.68

* Asbestos fiber concentrations are given in fibers (greater than 5 microns in length) per cubic centimeter of air.

Asbestos Survey
October and November 1974

<u>Job Description</u>	<u>Asbestos Fiber Concentrations *</u>
(14) Personal air sample, weigh-up	0.31
(15) Personal air sample, weigh-up	1.12
(16) Personal air sample, Bay F8, even loading and unloading	1.43
(17) Personal air sample, disc brake shoe inspection	0
(18) Personal air sample, Cyclo Weld Assembler, loading and unloading pre-cleaned brake shoes	1.38
(19) Personal air sample, Champ Grinder #152774	0.58
(20) Personal air sample, proof testing, machine #152775	5.14
(21) Personal air sample, proof testing, repeat of (20) above	2.20
(22) Personal air sample, proof testing, repeat of (20) above	0.93
(23) Personal air sample, loading #1 disc brake pad grinder	0.82
(24) Personal air sample, inspection on #1 disc brake pad grinder line	3.10
(25) Personal air sample, loading #3 disc brake pad grinder	3.31
(26) Personal air sample, inspection on #3 disc brake pad grinder line	0.81
(27) General air sample, Bay F8, pillar directly adjacent to #3 disc brake pad grinder	0.17

* Asbestos fiber concentrations are given in fibers (greater than 5 microns in length) per cubic centimeter of air.

Data Sheet
Trenton Chemical Plant

Asbestos Survey
October and November 1974

<u>Job Description</u>	<u>Asbestos Fiber Concentrations *</u>
(23) Personal air sample, Tennant Sweeper operator	0
--(29) Personal air sample, loading #4 OD grinder	1.06
(30) Personal air sample, packer for #4 OD grinder	0.00
(31) Personal air sample, packer for #4 OD grinder	1.25
(32) General air sample, Bay B8, pillar near #5 OD grinder	0.08
(33) General air sample, Balcony, directly between #2 and #3 ball and hammer mills	0
(34) Personal air sample, saw line, stacking conventional brake linings prior to oven firing	0
(35) Personal air sample, saw line, stacking conventional brake linings prior to oven firing	0
(36) Personal air sample, saw line, stacking conventional brake linings after oven firing	0.10
(37) Personal air sample, transfer of brake linings, from the extruder, to the filling press, to the saw line	0.13
(38) General air sample, Bay B3, directly adjacent to the #1 extruder	0
(39) Personal air sample, Bay B3, spray application of K 101 to disc lathe	0.11

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Data Sheet
Trenton Chemical Plant

Asbestos Survey
October and November 1974

<u>Job Description</u>	<u>Asbestos Fiber Concentrations *</u>
(40) Personal air sample, skip hoist loading	1.73
(41) General air sample, balcony during skip hoist loading of #1 Lodge mixer	1.34
(42) Personal air sample, skip hoist loading and weigh-up	2.00
(43) Personal air sample, skip hoist loading and weigh-up	0.73
(44) General air sample, adjacent to #1 extruder during skip hoist loading of #4 Lodge mixer	1.82
(45) Personal air sample, unloading #4 Lodge mixer, (employee wears a respirator)	23.42
(46) Personal air sample, unloading #4 Lodge mixer, repeat of (45) above	14.23
Chemical Building	
(48) Personal air sample, loading Day 11 mixer	0
(49) General air sample, east end of Day 11 mixer loading operation	0
(50) Personal air sample, loading #2 Batch blender	0

* Asbestos fiber concentration is given in fibers (greater than 5 microns in length) per cubic centimeter of air.