

Inter Company Correspondence

Sept. 18, 1984

From: L. A. Roman, Plant Manager	Stamping & Div. Group	Trenton Chemical	MS Number 453-02-0
From: A. C. Barbaglia, Industrial Hygiene	Ind. Relations	CC	MS Number 417-05-1

ASBESTOS MONITORING

Summary

An Industrial Hygiene survey was conducted at the Trenton Chemical Plant Friction Products Building, on August 30, 1984 to determine employee exposure levels to asbestos.

Results from the monitoring indicated three of four exposure levels were in excess of the 0.5 fibers/cc permissible exposure limit (PEL).

In order to lower these employee's exposure levels to asbestos dust, the Industrial Hygiene Department recommends:

- 1) Use of approved respiratory protection (NPSP 220E) for employees with elevated exposure levels.
- 2) Reinstruction of employees on proper handling of products to avoid creating asbestos dust.
- 3) Instruct employees to work over ventilated portion of the inspection table, if this is not possible, expand ventilated portion of the table.
- 4) Further evaluation of the employee time clock area to more adequately define cause of elevated sampling result.

Discussion

A follow-up survey at the Trenton Chemical Friction Products Building was completed on August 30, 1984.

Results of the survey showed that the south OEM grinder operator and inspector had asbestos exposure levels in excess of the 0.5 fibers/cc permissible exposure limit (PEL). In addition the area sample taken outside of the data processing office and adjacent to the employee's time clocks indicated an airborne asbestos concentration of 1.2 fibers/cc.

All other sample results were below the 0.5 fibers/cc PEL for asbestos.

The writer feels that the elevated exposure levels experienced at the south OEM grinder work area is a direct result of poor employee work practices. During the inspection phase, employees do not always work over the ventilated portion of the table and slap the pads around repeatedly while placing the linings into the packing crate. By doing

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this, they dislodge loose asbestos fibers on the pads which results in the generation of airborne dust concentrations.

In order to reduce employee exposure levels to asbestos dust the writer recommends the following control measures:

- 1) Required use of approved respirators on OEM grinders (NPSP 220E).
- 2) Reinstruct employees on proper handling of asbestos products to avoid creating unnecessary dust.
- 3) Employees must be required to work over ventilated portion of downdraft table. If this is not possible, the plant must expand the ventilated portion of the table to accommodate the operation.

In addition if continued elevated exposure levels are found in this area the plant should explore the use of a vacuum to remove extraneous asbestos dust from the pad prior to the inspection station.

At the plant's request an area sample was taken outside the data processing office and adjacent to the employee time clocks. The sample result indicated an airborne asbestos concentration of 1.2 fibers/cc. It is suspected that the elevated results may be due to leakage from the mixers and the open batch mix containers found in the area. This area will be further monitored to better determine the asbestos source.

If you have questions regarding this report, contact the writer.



A. C. Barbaglia
Industrial Hygienist

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Attachment

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Data Sheet
Trenton Chemical Plant
September 26, 1984

Asbestos

Permissible Exposure Limits (PEL)	Concentration (fibers/cc)
	0.5
T. Kritcher #377-56-0070 Friction Products Bldg. - mixer weigh up and #3 extruder operator	0.5
Area sample Friction Products Bldg. - data processing office adjacent to J. J. Howley's office	< 0.1
Area sample Friction Products Bldg. - outside of data processing and adjacent to employee time clocks	< 0.1
Area sample Building 20 - on electrical panel adjacent to Machine #4, Bay A13-14	< 0.1

All samples were collected on cellulose ester filters
using MSA Model G Pumps and analyzed by phase contrast
microscopy.

Data Sheet
Trenton Chemical Plant
August 30, 1984

Asbestos

Permissible Exposure Limits (PEL)	Concentration <u>fibers/cc</u>
	0.5
W. Johnson #380-34-0905 Friction Products - south OEM grinder operator	0.76
J. Owens #413-64-6011 Friction Products - south OEM grinder inspector	0.94
R. Eigel #375-60-5975 Friction Products - Bipel #5 and Press #'s 21 and 22 operator	0.05
Area sample Friction Products - adjacent to employee time clocks	1.2

All samples were taken on cellulose ester filters
using MSA Model G Pumps and analyzed by phase
contrast microscopy.