PLAINTIFF'S EXHIBIT
CHR-139

G. McKendry Director-Plant Engineering Corporation Mfg. Staff	Project Analysis Russell Street Office	Highland Park December 18, 1956

SAFETY ASPECTS OF PROJECT REQUEST FOR BRAKE LINING FABRICATION AT CYCLEWELD

We wish to advise that we have checked into the safety aspects of the subject Project Request, and have discussed the industrial hygiene problems with Don Fowler.

In our opinion, this Request provides for the mechanical features, such as ventilation, sprinkler protection, and carbon dioxide systems that are required to make a safe operation. The Industrial Hygiene Department informs us that they have no objections to the installation.

In general, the operations that will be performed in the proposed brake lining set-up are very similar to existing operations and hazards in the Cycleweld cement production.

J. vonRosen

JvR:mb
cc: L. A. Churgay
D. G. Fowler

MICHIGAN DEPARTMENT OF HEALTH

LANSING 4, MICHIGAN

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REPLY TO:
Wayne County Health Dept.
Henry Ruff Road
Ecorse, Michigan

May 17, 1960

Cycleweld Cement Products
5437 West Jefferson Avenue
Trenton, Michigan

C

Attention: Mr. Kenneth Hayes, Plant Manager

Gentlemen:

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On May 10, 1960 we conducted a survey of your asbestos brake lining and foaming operations to determine whether these operations were creating a health hazard and checked the amount of production taking place in each case.

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It was found that the brake lining operation was still in the pilot plant phase and experimentation was still being conducted on the foaming line. At this time it did not appear to be a health hazard; however, when these processes are conducted full time, improved ventilation will be necessary and samples should be taken to evaluate the hazard more completely. When the plans are available for the production process for the brake lining, we would appreciate being able to check over the ventilation provided.

Y

If we can be of assistance before this time, please feel free to call on us.

Very truly yours,

DIVISION OF OCCUPATIONAL HEALTH

Marvin M. Schuman
District Engineer

MMS:hmm

cc: Mr. Donald Fowler, Supervisor
Industrial Hygiene Section

A17 SSM 1-59

May 27, 1963

Mr. K. M. Hayes — Manufacturing Mgr. Chemical Div. — Trenton Engine

Mr. L. Redmond — Indust. Hygiene — Highland Park

AIR-BORNE ASBESTOS DUST CONCENTRATION - DEPARTMENT 7200

As requested on May 22, 1963, samples were collected to determine the air-borne asbestos dust concentrations created by the sawing and forming of brake linings. The exhaust ventilation system was also checked at this time.

The results obtained, which are listed on the attached sheet, indicated that the dust concentrations were at acceptable levels and that the exhaust ventilation system was functioning properly.

Louis Redmond
Senior Industrial Hygienist

LR:slh

cc: B. J. Sauber, M.D.
R. H. Weidner

DATA SHEET

AIR-BORNE ASBESTOS CONCENTRATIONS

MAY 27 1963

Location	Results in Millions of Particles Per Cubic Foot of Air
Threshold limit value	5.0
At #1 sawing machine - removing brake shoes	0.4
At #2 sawing machine - removing brake shoes	0.3
At both Bolling Machines	1.0

The above samples were collected with a Mine Safety Appliances Company's Midget Impinger.

Ventilation

Location	Results in Feet Per Minute
At #1 sawing machine	500 - 1100
At #2 sawing machine	700 - 1200

The above measurements were made with an Alnor Velometer. Serial #2100.

March 20, 196

T. Repucci	Personnel Manager	Chemical	Trenton
L. Eschelbach	Industrial Hygiene	Personnel	Highland Park

Governmental Industrial Hygiene Investigation

Attached is a communication regarding an asbestos dust investigation performed at the Trenton Chemical Division Plant by the State of Michigan Division of Occupational Health. Corrective action necessary to provide improved control of airborne asbestos is cited. Comments of the Industrial Hygiene Department regarding the two corrective measures included in the State communication are as follows:

1. Exhaust Ventilation System at B6. It is agreed that the ventilation system at the grinder should be placed in operable condition.

2. Exhaust Ventilation at the Disc Brake Lining Press. Compliance with the State of Michigan requirements should be provided by one of the following methods:

   A. Install a hood larger than the chute opening at the location where the asbestos is transferred from the metal container to the press chute. A hood face velocity of 75 feet per minute would provide satisfactory control. This type of installation would exhaust more air than is removed at the present time without increasing the capture velocity.

   B. Increase the quantity of exhaust at the present system. This method of control would reduce airborne asbestos dust, but would also remove more light fibers from the chute and may interfere with production.

We recommend that the mandatory wearing of dust respirators be continued until the required control measures are completed.

D. L. Eschelbach, Chief
Industrial Hygiene Department

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Attachment

cc: [illegible] Bavinger
[illegible] Powers
[illegible] Trombley

May 27, 1963

Mr. K. M. Hayes — Manufacturing Mgr. Chemical Div. — Trenton Engir

Mr. L. Redmond — Indust. Hygiene — Highland Park

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