



Co file

STATE OF OHIO
THE INDUSTRIAL COMMISSION OF OHIO
DIVISION OF SAFETY AND HYGIENE
2325 WEST FIFTH AVENUE
P.O. BOX 1745
COLUMBUS, OHIO 43216

PLAINTIFF'S
EXHIBIT
BRK-59

PHONE (614) 466-3385

Industrial Commission
GREGORY J. STEBBINS
Chairman
MARGUERITE M. NEAL
Vice Chairman
JOHN E. SENN
Member

JAMES A. RHODES
Governor

Division of Safety and Hygiene
WILLIAM C. MURPHY
Superintendent

Legal Section
The Industrial Commission of Ohio
Ohio Departments Building, Room 225
Columbus, Ohio 43215

Risk #S.I. 2647
O.D. 11909-22
Dup Bailey

Attn: Jim Clymer

Dear Mr. Clymer:

On December 15, 1975 an investigation was conducted at Frigidaire, Division of G.M.C. in Dayton, Ohio, by Michael F. Goyda in order to evaluate the conditions under which the claimant had worked.

According to information provided by Bill Dunn, the Safety Supervisor, the claimant's work history was as follows:

6/24/46 - 11/22/53- spraying porcelain
11/33/53 - 9/6/54 - assembly
11/ 4/74 - 7/9/75 spraying porcelain
7/9/75 - off sick

Air samples were collected in the porcelain spraying area (Dept. #316) on operators performing the same work as the claimant and under similar conditions.

Air samples were collected for total dust containing silica using a personal sampling pump operated at 2 liters per minute and a polyvinyl chloride filter with a 37 millimeter diameter and a 5 micron pore size.

Air samples were collected for respirable dust containing silica using equipment similar to that used for the total dust samples. However, the pumps operated at a flowrate of 1.8 liters per minute and a 10 millimeter nylon cyclone was used.

All the air samples were collected in the employees' breathing zones.

The samples were sent to the laboratory where the dust concentration was determined gravimetrically and the per cent silica determined using X-ray diffraction.

The total dust results are listed in Table #1 and the respirable dust results are listed in Table #2.

Sincerely,

Michael F. Goyda
Michael F. Goyda
Industrial Hygienist

MG:bs

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TABLE # 1
FRIGIDAIRE, DIV. OF G.M.C.

TEST RESULTS

INDIVIDUAL OR SITE TESTED	CONTAMINANT	CONCENTRATION DETERMINED (mg/M ³)*	ACGIH** 8-HOUR TLV***
Hand spraying Post H 23	Total Dust	0.87 (4.7% free silica)	3.90
Loading Post H 23	Total Dust	1.10 (12% free silica)	2.00
The ACGIH 8- Hour TLV is determined by the formula		$\frac{30 \text{ mg/M}^3}{3+ \% \text{ free silica}}$	

- (1) *MILLIGRAMS PER CUBIC METER OF AIR
(2) **AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
(3) ***THRESHOLD LIMIT VALUE

TABLE 2

FRIGIDAIR, DIV. OF G.M.C.

TEST RESULTS

INDIVIDUAL OR SITE TESTED	CONTAMINANT	CONCENTRATION DETERMINED (mg/M ³)*	ACGIH** 8-HOUR TLV***
Hand Spraying Post H23	respirable dust	0.26 (5.5% free silica)	1.33
Loading Post H26	respirable dust	0.41 (no silica detected)	5.00
The ACGIH 8-Hour TLV is determined by the formula $\frac{10 \text{ mg/M}^3}{2 + \% \text{ free silica}}$			

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FRIGIDAIR, DIV. OF G.M.C.

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