

January 31, 1951

Memorandum To: Doctor Vorwald

From: E.C.J. Urban

Subject: Preliminary Industrial Hygiene Survey,  
Owens-Illinois Glass Company  
Kaylo Division Plant, Sayreville, N.J.

The survey work was requested by Mr. W. Hazard of the Owens-Illinois Glass Company, Toledo, Ohio, office.

Members of The Saranac Laboratory staff participating in the survey were: T.M. Durkan and E.C.J. Urban.

The following individuals were contacted at Sayreville.

Mr. O.W. Pfeifer, Plant Manager

Mr. William Barker, Personnel Manager

Mr. P.E. Gillis, Safety Director

Mr. John Roades, Quality Control Engineer

The survey was made in the company of Mr. W. Hazard. Its purpose was to examine the plant operations with the view of discovering any hazards to health which might exist as the results of the raw materials handled and the finished product produced.

#### Raw Materials

##### 1. Diatomaceous Earth

The products of several U.S. manufacturers including Johns-Manville. The earth was not a "pure" product (100%  $\text{SiO}_2$ ) but contained contaminants as clays.

2. Silica flour (high grade of free crystalline  $\text{SiO}_2$  ground to a fine size) from Pennsylvania Pulverizer Company.

3. Tripoli (small quantities) from Illinois Mineral Company.

4. Lime, Warren Company, Balfont, Pennsylvania.

5. Asbestos, Chrysotile, Johns-Manville-Quebec, Canada

Asbestos, Amosite (iron bearing) South Africa.

6. Kayolin (clay) small amounts from Georgia.

7. Cement, commercial grades.

#### Finished Products

"Kaylo" product in tile forms for structural uses. Reinforced with wire for roofing. Sheets for fire-proof doors and panels. In round forms for pipe insulation covering. Two types of "Kaylo" were made. "Light density" and "Heavy density". Both contain different mixtures of the same original components.

The quality of the finished product is judged by structural

Asbestos Litig.  
Saranac Lake  
1989 Depos.  
Exhibit p.109

000084



Mem to M.J. Vorwald

-2-

January 31, 1951

strength, density, hardness and moisture absorption.

Seven dust counts were taken in strategic locations throughout the plant. Seven sites were selected at which air-borne sample collections will be made (vacuum cleaner on filter paper), by Mr. John Roades. The samples will be forwarded to The Saranac Laboratory for analysis.

The sketch, Fig. I, shows the locations of dust counts #1 to 7 inclusive and the air-borne sample collections #8 to 14 inclusive.

Bulk samples of all the main raw products used and of Light and Heavy Kaylo grades were also obtained for analysis.

We believe that two main health hazards must be considered in this plant. Asbestos (long fiber) and crystalline free silica.

Mr. Hazard requested six (6) copies of a formal report of this survey be sent to him. The cost of this work was not discussed.

ECU:lr

cc: T.M. Durkan

000085

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Exhibit p.110