PLAINTIFF'S EXHIBIT
UC-1473

INTERNAL CORRESPONDENCE

MINING AND METALS DIVISION

To (Name) D. W. Miller

Company

Location Houston, Texas

Date April 27, 1970

Originating Dept.

Answering letter dated

Subject

Enclosed are catalog sheets for the microscope for dust counting, accessories, and a copy of our lab procedure. Samples are collected with a Uni-Jet sampler using 47mm Millipore filters in a Gelman Instrument Co. holder. The sampler uses Freon gas for power.

Slides are prepared for counting by dissolving the filter "paper" in a mixture of Diethyl Oxalate and Dimethyl Phthalate in which plain filtess have been dissolved. A phase microscope is necessary to get good definition of the particles, a regular microscope isn't satisfactory.

Using 430 magnification and a measuring reticle, we count all particles over 5 microns, as the limit is "12 fibers per milliliter greater than 5 microns in length", according to the Federal Regulations.

The final dust count number is calculated from the known volume of air sampled, the filter area, and the area (field of view) counted. Usually we count five places on each slide and average them.

I have also included a copy of the procedure for the old method of dust counting, using a wet impinger. We don't consider this method to be as good as the millipore filter method, but Zaruba can decide for himself which he prefers.

Please let me know if you have any questions.

Yours very truly,

John A. Riddle

/clg

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