PLAINTIFF'S EXHIBIT
UC-219

INTERNAL CORRESPONDENCE

UNION CARBIDE CORPORATION • 270 PARK AVENUE, NEW YORK, NEW YORK 10017

To (Name) Mr. J. A. Riddle
Division Mining & Metals Division
Location P. O. Box K
King City, California

Date August 21, 1970

Originating Dept.

Answering letter date

Subject

Copy to Mr. J. F. Crow
Mr. E. A. Piersall
Mr. R. O, Marsden
Dr. J. J. Welsh/Dr. K. S. Lane

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Dear Mr. Riddle:

The results for particle counts of air samples collected at the asbestos mine near King City are given below. They are reported as fibers of length equal to or greater than 5 microns and as total particles of all sizes visible by microscope at a magnification of 400 times.

For safety, all particles having a dimension greater than 5 microns have been reported as fiber. It is understood of course, that some of these particles may not be fiber at all; on the other hand we know from earlier studies that fibers when agglomerated may appear to be a single large particle that cannot be better delineated except by much greater magnification.

A10213

	Particles per ml.		
Sampling Location	≥ 5μ	Total	Remarks
Beside bulldozer operator while moving ore to loader.	13 11	65 80	Open cab. Sunny dry day. Light breeze.
Beside front loader operater while moving ore to grizzly.	41 53	123 130	Closed, air conditioned cab. Dust leaks.
Floor of pit around grizzly.	7	60	

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You will note that in all instances the 5 micron and larger material exceeds the limit of 5 per ml. Except for the two lowest readings, the total particle count can, by further computation, be shown to exceed the alternative limit of 2 million particles per cubic foot of air. Thus, for safety, personnel working at the mine should wear respirators. It is strongly indicated for the operator of the front loader.

I also suggest that consideration be given to a means for providing a cover for the ore during haulage. I feel that in the near future this will be required by the state.

Very truly yours,

Paul W. McDaniel
Industrial Hygiene Engineer

PWM:dp

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