UC 149-E

PLAINTIFF'S EXHIBIT

UC-2894

UNION CARBIDE

INTERNAL CORRESPONDENCE

MINING AND METALS DIVISION

P. O. BOX 579, NIAGARA FALLS, NEW YORK 14302

To (Name) Mr. C. C. Masterman
Division Research & Development
Location Niagara Falls, NY

Date March 15, 1974

Originating Dept. "Calidria" Asbestos

Answering letter date

Copy to Dr. H. B. Rhodes

Subject Asbestos Fiber Count

Airborne Fiber Counts were conducted March 11, 1974 in Building 166, laboratory 116. The operation monitored was the riffling of two 67-1/2 pound bags of roll crushed SG-100 asbestos down to 8-1/2 pound fractions. Both samples were riffled in a negative pressure hood which no doubt was a major factor in keeping the fiber counts well within OSHA limits.

Sampling and dust counting were carried our in accordance with OSHA Regulation 1910.93a, using the Bayer, Zummalde and Brown method for counting asbestos fibers by phase contrast microscopy (Bureau of Occupational Safety and Health, Feb. 1969).

Battery-powered air pumps (M.S.A. type) calibrated to 2 liters per minute were used to collect personal breathing zone and environmental samples on Millipore membrane filters of 0.8 micron porosity.

Fiber counting was performed on a Vicker's phase contrast microscope at 400X utilizing a Porton reticle.

Test results are reported as fibers/cc longer than 5 micrometers. A fiber is defined as any material having as aspect ratio greater than 3:1.

SUMMARY OF FIBER COUNTS

Sample No	Time	Description	Fibers/cc > 5 μ
C-861	41 min.	Personal - Operator (J. Olearczyk) riffling 67-1/2 lb. roll crushed SG-100 in negative pressure hood in order to obtain about 8-1/2 lb. of product.	0.1
C-822	40 min.	Environmental- Located on lab. bench 6 ft. from hood. Monitored between riffling operations.	<0.1
C-860	27 min.	Personal - Operator riffling another 67-1/2 lb. of roll crushed SG-100.	0.5

Edward J. Kleber

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