J J Sibley

PLAINTIFF'S EXHIBIT

UC-2899

AIRBORNE DUST COUNTS

for

Uvalde Rock Asphalt Co.
Houston, TX.

December 28, 1972

Personnel Present: D. Dewan
Uvalde

G. L. Dickson
Union Carbide Corporation

E. J. Kleber
Union Carbide Corporation

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UNION CARBIDE CORPORATION
Mining and Metals Division
Niagara Falls, New York

DESCRIPTION OF PLANT AND TESTS

Tests were conducted November 16, 1972 at Uvalde Rock Asphalt Co., a manufacturer of floor tile.

Samples were collected at tile base blenders, Line "D" and Line "A." Line "D" samples were "Calidria" Asbestos SG-100, and Line "A" was 7RC.

APPARATUS AND PROCEDURE

Sampling and dust counting were carried out 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 Leitz microscope utilizing phase contrast illumination at 400X and a Patterson Globe and Circle reticle.

Total dust was determined by light field microscopy at 100X.

TEST RESULTS

Two figures have been reported for each sample. They are:

1) Total Fiber - Any material 5 microns or longer having an aspect ratio of 3 or greater. Reported as fibers per milliliter.

2) Total Dust - Any fiber or particle present. Reported as million particles per cubic foot.

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SUMMARY OF DUST COUNTS

N.B. No.	Field No.	Description	Asbestos Count Fibers/ml > 5μ	Total Dust mppcf
1929-62-1	128	Personal - Tile base blender "D" line operator (15.0 min) adding 500 lb. SG-100. Monitored throughout entire cycle.	5.7	5.0
1929-62-2	47	Personal - Same as above, during dumping only. (2.5 min.)	12.8	18.2
1929-62-3	42	Personal - Tile base blender "A" line operator (4.5 min.) adding 600 lb. 7RC.	12.7	20.3

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