TF-5063

PLAINTIFF'S EXHIBIT

UC-5415

AIRBORNE FIBER COUNTS

for

Georgia-Pacific Corporation
Marietta, GA

August 21, 1973

Present for Georgia-Pacific: Mr. D. Jones

Present for Union Carbide Corporation: Mr. J. E. Walsh

Samples Analyzed By: Mr. E. J. Kleber

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

DESCRIPTION OF PLANT & TESTS

Tests were conducted August 21, 1973 at Georgia-Pacific Corporation Marietta, Georgia, manufacturers of Tape Joint Compounds.

Personal breathing zone and environmental samples were collected in an effort to determine the amount of airborne asbestos fiber generated during the manufacture of Joint Cements and during unloading of a car of SG-210. Samples are described in the Table.

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 Vicker's phase contrast microscope utilizing a Porton reticle for sizing and field definition.

TEST RESULTS

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

1. Total Fiber - Any material longer than 5 microns having an aspect ratio greater than 3:1.

2. Probable Asbestos Fiber - Any material meeting the criteria in No. 1 which in the judgement of the operator could possibly be Chrysotile fiber.

SUMMARY OF FIBER COUNTS

Sample No	Field No	Description	Total Fiber Fibers/cc > 5 μ	Probable Asbestos Fiber Fibers/cc > 5 μ
1	110	Environmental (10 min.) - Located 5 ft. off floor and 2 ft. to the left of dry blending through. Monitored between batches.	0.7	0.4
2	221	Personal (5 min.) - Dry blender operator (Sam Gayton) during addition of 200 lb. 7RF9 and 90 lb. SG-210.	22.2	16.7
3	218	Environmental (15 min.) - Same position as No. 1 during addition of 200 lb. 7RF9 and 90 lb. SG-210.	3.9	1.5
4	212	Personal (12 min.) - Dry blender operator (Sam Gayton) completing batch with other dry ingredients such as Mica, etc.	3.6	0.6
5	269	Environmental (16 min.) - Same position as No. 1 between batches.	2.2	0.2
6	292	Personal (11 min.) - Wet mix operator (Robert Huie) during blending of dry ingredients with Latex and water.	3.5	1.9
7	207	Environmental (75 min.) - Located 12 ft. from floor in middle of car door opening. Monitored from time door was opened until completion of unloading.	2.0	1.5
8	145	Personal (87 min.) - Car unloader (John Tiaker) during entire unloading.	2.7	2.1