CertainTeed	Date	To	Location and mail code
	July 26, 1979	John McGinley	V.F., P&PG, 2B
Subject: Air Sample Survey - St. Louis Plant		From: Janis Woodson/ejb	Location and mail code: 1125/4

cc: J. Nixon, St. Louis Plant, #259
O. Kittilstad, Valley Forge, #4

PLAINTIFF'S EXHIBIT
CT-498

On July 16th and 17th an Asbestos Air Sample Survey was made at the Certain-Teed Asbestos-Cement Pipe Plant- #259, located in St. Louis, Missouri.

This survey was made in order to determine the exposure of employees still working at the plant, after all the manufacturing operations have ceased (shutdown was effective May 11, 1979). A total of 12 Air Samples were taken in 9 different areas of the plant.

The remaining operations at the time of this survey included:

Shipping pipe in stock - (utilized 4 hourly employees):

R. Metz
V. Wolff
G. Kelley
V. Denen

Loading railcars with Asbestos fiber from warehouse - (2 railcars per week utilizing 2 hourly employees):

E. Birkemeier
W. Harper

Maintenance employees dismantling equipment for transfer to other CertainTeed locations - (utilized 2 hourly employees):

A. Schroader
L. Moran

Office and Supervisory Functions - (utilizing 5 salaried employees):

J. Nixon
A. Wiese
M. McCauley
J. Harris
W. Tucker

Guard Service - 24 Hour Service: Provided by R.A.P.P. Security Service

Air Sample Survey
July 16 & 17, 1979

SAMPLE	SAMPLE #	SAMPLE TIMES (minutes)	FLOW RATE (liters/Minutes)	RESULTS (fibers/cc)
Whiteroom: Manufacturing Dept., (Fiber Dump) Pump sitting on desk in Whiteroom approx. 4' from floor and approx. 10' from bucket elevator	SL1	230 mins.	2.21 lpm	.030 F/cc
	SL10	155 mins.	2.21 lpm	.014 F/cc (TWA .024 F/cc)
Mixer Area: Manufacturing Dept., Second Floor, Pump sitting on platform of #2 mixer approx. 6' from floor.	SL2	230 mins.	2.0 lpm	.025 F/cc
	SL12	155 mins.	2.0 lpm	.007 F/cc (TWA .018 F/cc)
Shipping Yard: Pump sitting on pallet of pipe approx. 3' from ground outside North end of Building 9. (Finishing Department).	SL4	210 mins.	2.0 lpm	.029 F/cc
	SL6	170 mins.	2.0 lpm	.015 F/cc (TWA .023 F/cc)
Wetting Screw: Manufacturing Dept., Pump sitting on feed chute of pipe machine approx. 3' feet above wetting screw and approx. 7' from floor.	SL5	220 mins.	1.92 lpm	.039 F/cc
Waste Pile: Outside plant, pump sitting on top of 30' waster pile hanging on pipe one time used for pumping material on the hill. pump approx. 4' above ground.	SL3	375 mins.	2.18 lpm	.035 F/cc
Lathe Line #2: Finishing Dept., Pump sitting on lathe approx. 4' from floor.	SL8	470 mins.	2.18 lpm	.005 F/cc
Fiber Warehouse: Plant 3 Pump located by main isle hanging from pole approx. 6½' from floor. 20' from pallets of P-5 fiber in shrink wrap.	SL11	410 mins.	2.21 lpm	.002 F/cc
Main Gate: Near Guard House Pump hanging on fence at Main Entrance to plant property approx. 5' from ground.	SL13	420 mins.	2.01 lpm	.002 F/cc
Office: This sample voided because of pump problems	SL7	---	---	CTD017569

1. Weather conditions during time of sampling (July 16 & 17) was very humid and warm - approximately 85-90°. Slight breeze at times notably to the west.

2. All samples taken and analyzed following the NIOSH recommended procedures for "Sampling and Evaluating Airborne Asbestos Dust".

3. Asbestos Regulations as set by OSHA - requires that an employee's exposure to asbestos shall not exceed 2.0 fibers, longer than 5 micrometers, per cubic centimeter of air in an 8 hour time weighted average (TWA).