PLAINTIFF'S EXHIBIT
DOW-814

DOW CHEMICAL U.S.A.
50983

TEXAS DIVISION
FREEPORT, TEXAS 77541

ENVIRONMENTAL HEALTH REPORT

AIRBORNE ASBESTOS SURVEY
TOOL ROOM
BUILDING A-702

FILE NO. A7-1350
DATE January 9, 1978
AUTHOR E. E. Bosche'
CHECKED R. L. Hewitt
DATE Jan. 11, 1978

Summary

A survey of A-702 Tool Room was made and the asbestos levels were in the 0.02 fiber per cubic centimeter range. This should not present any health hazard to the Tool Room personnel.

ST0015646

bbs

Distribution

Sarah Champagne B-108
P. C. Gay B-101
M. G. Trevino B-108
R. C. Walker, Sr. B-108
G. T. Wommack B-108
✓File

INTRODUCTION

At the request of the Maintenance Department supervision, a survey of the A-702 tool room for airborne asbestos was made on December 15, 1977.

METHODOLOGY

Bendix Micronair personal sampling pumps (Environmental Services, Baltimore, Md.) were placed in the tool room work and office areas as well as on the perimeter adjacent to the Chlorine Cell Manufacturing area. Air was drawn by these pumps through open faced Millipore cassette filters (Millipore Corp., Bedford, Mass.) catalog no. MAWG 037AO. These filters were cleared and fibers $\geq$5 micrometers were counted by phase contrast microscope by Dow Central Laboratory Department.

The pumps were allowed to run for a specific length of time and the air flow was calibrated before and after this sample period. If the air flow was not still the same after the sample period, the starting and ending flow rates were averaged and this was then taken as the constant flow for the entire time.

The reported value from Central Laboratory is fibers per square of grid on the filter disc. This value is multiplied by 90 (the number of available squares on a disc) and related mathematically to the total air sample volume.

ST0015647

RESULTS

No samples showed a fiber count giving more than 0.02 fibers per milliliter of air. Table I shows asbestos quantities found.

DISCUSSION

The OSHA limit for asbestos fiber is 2.0 fibers $\geq$ 5 micrometers per milliliter of air. This survey showed a 100 fold safety margin in the Tool Room of A-702 compared to this regulatory limit.

EHS
EEB/bbs
1-9-78

TABLE I

ASBESTOS DETERMINATIONS IN A-702 TOOL ROOM

LOCATION	ASBESTOS FIBERS $\geq$ 5 um FIBER/ML
Compressor Maintenance Shop	< 0.02
Work area just outside of office	< 0.02
At fence nearest Cell Services area	0.02
At fence at Drum Storage	< 0.02
In office	0.01

ST0015648