PLAINTIFF'S EXHIBIT

DOW-2935

DOW CHEMICAL U.S.A.

50983

TEXAS DIVISION
FREEPORT, TEXAS 77541

ENVIRONMENTAL HEALTH REPORT

AIRBORNE ASBESTOS
PERSONNEL MONITORING
CHLORINE 6
BUILDING A-5024

FILE NO. A50-1304

DATE October 17, 1977

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CHECKED R. L. Daniel

DATE October 28, 1977

Summary

None of the 42 samples analyzed for airborne asbestos was above the required level of 2.0 fibers/cc. It is therefore concluded that employees are not being overexposed to asbestos within the Chlorine 6 area.

It is recommended that each employee be made aware of the results found, the hazards of overexposure and the necessity for keeping these levels below the prescribed limit. This informing should be documented.

ST0607026

bbs

Distribution
J. D. Dean A-5024
S. F. Edquist A-1201
R. E. Flake B-101
W. H. Fletcher B-101
T. J. Loftus A-5024
O. F. Schumm B-101
File

(2) R. R. Langner 1803 Midland
Marlene Swank 1803 Midland
Donna J. Roberts - 2020 Midland
* F. D. Axe - Pittsburg
* C. E. Halphen - Plaquemine
* Paul Greenfield-Grandville, Ohio
* R. D. Olson 433 Midland
* C. H. VanMetre - OCD

INTRODUCTION

The Occupational Safety and Health Act (OSHA) requires that occupational exposures to airborne asbestos be controlled so that no worker is exposed to more than 2.0 asbestos fibers per cubic centimeter of air based on a count of fibers greater than 5 micrometers in length. These are determined by a time-weighted average (TWA) exposure for an eight hour work day, and no peak concentrations of asbestos more than 10.0 fibers per cubic centimeter as determined by a minimum sampling time of 15 minutes.

It is now proposed to lower the limit to 0.5 fibers per cubic centimeter with a peak of 5.0 fibers.

This survey was conducted at Chlorine 6 to evaluate the worker exposures by personnel monitoring. The tests were taken from 4-27-77 to 9-1-77.

METHODOLOGY

Airborne samples were collected using a Bendix Permissible air sampling pump (Bendix Corp., Baltimore, Md.). The fibers were collected by pulling air through a Millipore filger (AAWG03700) mounted in a Millipore disposable cassette. Flow rates for the pumps were calibrated at 1400 cubic centimeters per minute and sampling times were four hours or greater (Table I). All samples were collected by T. J. Loftus of Chlorine 6.

Samples were analyzed by Lee Martin of Central Laboratory using the following technique:

Four marked squares are cut from a filter about half-way from the edge to the center. This section is then placed on a drop of clearing solution[1] and placed on a microscope slide. The sample is covered with a cover slip and allowed to clear(about 15 minutes). The sample count is made on a Reichert Zetopan Optical microscope using Nomarski interference contrast at 500 magnification. Counts are made for particles greater than 5.0 microns, and reported as fibers per filter square.

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RESULTS

Results of the airborne sample analyses are shown in Table I. All levels are below the new proposed standards.

CONCLUSIONS

Workmen are not being overexposed to asbestos within the Chlorine 6 area.

[1] Clearing solution: 0.1 g/ml of clean Millipore filter paper in 1:1 diethyloxalate: dimethylphthalate.

RECOMMENDATIONS

It is recommended that each workman be made aware of the results found, the hazards of overexposure, and the necessity for keeping these levels below the prescribed limits. This informing should be documented.

EHS
HNE/bbs
10-17-77

STUDY 020

TABLE I
AIRBORNE ASBESTOS
CHLORINE 6
FIBERS/CC > 5.0 uM

NAME	MASTER NO.	JOB CLASSIFICATION	DATE	TIME HRS.	RESULTS
K. E. Guffey	115399	Foreman	7-26-77	4	< 0.1
J. E. Wheeler	130985	Foreman	4-29-77	4	< 0.1
S. E. Lewis	137377	Control Oper. B.	7-22-77	4	< 0.1
G. E. Brown	138813	Control Oper. C.	7-22-77	4	< 0.1
R. J. Bugg, Jr.	139770	Control Oper. C.	9-1-77	4	< 0.1
E. Griggs, Jr.	137292	Control Oper. C.	7-29-77	4	< 0.1
M. V. Montgomery, Jr.	131902	Control Oper. C.	8-2-77	4	< 0.1
E. J. Wiley	136698	Control Oper. C.	7-26-77	4	< 0.1
L. L. Barrera, Jr.	135720	Class 1 Oper.	7-29-77	4	< 0.1
F. R. Carroll	138181	Class 2 Oper.	8-8-77	4	< 0.1
L. J. Cortemelia	138835	Class 2 Oper.	8-16-77	4	< 0.1
M. D. Davis	138985	Class 2 Oper.	4-25-77	4	< 0.1
M. D. Davis	138985	Class 2 Oper.	8-11-77	4	< 0.1
J. Freelon, Jr.	137693	Class 2 Oper.	8-12-77	4	< 0.1
D. T. Garcia	136510	Class 2 Oper.	8-4-77	4	< 0.1
F. Gonzales, Jr.	135143	Class 2 Oper.	8-4-77	4	< 0.1
G. H. Grear	139239	Class 2 Oper.	8-4-77	4	< 0.1
D. L. Hobbs	136252	Class 2 Oper.	8-16-77	4	< 0.1
E. C. Mata	133775	Class 2 Oper.	4-25-77	4	< 0.1
R. L. Mickens	139063	Class 2 Oper.	8-1--77	4	< 0.1
E. G. Nunez	138517	Class 2 Oper.	8-9-77	4	< 0.1
A. Ramirez	134956	Class 2 Oper.	8-15-77	4	< 0.1
O. Ramirez	138449	Class 2 Oper.	8-9-77	4	< 0.1
J. L. Roberson	139188	Class 2 Oper.	8-4-77	4	< 0.1
W. W. Shimek	131677	Class 2 Oper.	8-11-77	4	0.2
V. King	McGill		5-18-77	4	< 0.1
J. Perkins	McGill		5-18-77	4	< 0.1
C. Cladwell	Gulf States		7-13-77	4	< 0.1
R. Holt	Gulf States		6-15-77	4	< 0.1
D. Robertson	Gulf States		6-15-77	4	< 0.1
W. Rose	Gulf States		7-13-77	4	< 0.1
Cruzeturner	U.S. Contractor		5-31-77	4	< 0.1
C. Dirba	U.S. Contractor		5-2-77	4	< 0.1
R. Draks	U.S. Contractor		4-27-77	4	< 0.1
P. Garcia	U.S. Contractor		5-24-77	4	< 0.1
B. Gray	U.S. Contractor		5-31-77	4	< 0.1
L. Mann	U.S. Contractor		6-10-77	4	< 0.1
G. Mathis, Jr.	U.S. Contractor		4-29-77	4	< 0.1

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TABLE I (continued)

NAME	MASTER NO.	JOB CLASSIFICATION	DATE	TIME HRS.	RESULTS
G. Mathis, Sr.	U.S. Contractor		5-24-77	4	< 0.1
P. Miram	U.S. Contractor		4-27-77	4	< 0.1
D. Tielke	U.S. Contractor		5-2-77	4	< 0.1
D. Tielke	U.S. Contractor		5-6-77	4	< 0.1

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