



DOW CHEMICAL U.S.A.

PLAINTIFF'S EXHIBIT

DOW-799

TEXAS DIVISION
FREEPORT, TEXAS 77541

ENVIRONMENTAL HEALTH REPORT

ASBESTOS SURVEY
GLYCERINE I
B-1900

FILE NO. B19-1373

DATE March 31, 1978

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CHECKED R. L. Daniel

DATE April 5, 1978

Summary

Measurements were made at the Glycerine Finishing Plant B-1900 for airborne asbestos during a stripping operation. Maximum personnel exposure was .1 fibers/cc TWA. By fully complying with Dow's asbestos handling procedure, insulators were not overexposed to asbestos.

The Glycerine Plant and Insulation Department should continue strict compliance with Dow's asbestos handling procedure to maintain minimum personnel exposure during stripping operations.

ST0015137

bbs

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AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

INTRODUCTION

An asbestos survey was made at Glycerine 1 to determine personnel exposure and area concentrations during stripping operations.

STRIPPING PROCEDURE

The area for asbestos stripping was roped off and signs posted for warning purposes. Insulators wore protective masks and disposable coveralls. The asbestos was soaked with water prior to stripping.

SCOPE OF SURVEY

Insulator personnel were monitored for asbestos exposure. Area samples were taken for baseline and downwind concentrations of asbestos.

ANALYTICAL METHODOLOGY

Millipore Aerosol Field Monitors were used to collect the asbestos fibers. Air samples were drawn thru the filters with both Bendix C-115 and Micronair II Permissible Air Sampling Pumps. Pumps were calibrated to draw from 1.5 to 2.0 l/min. The filters were analyzed by Central Lab using phase contrast microscopy.

DISCUSSION

The OSHA standard for asbestos exposure was 2 fibers/cc $\geq 5 \mu$ in length for a time weighted average (TWA) of 8 hours. As can be seen by Table 1, asbestos levels were low with personnel exposure of .1 fibers/cc TWA.

Area monitors showed < .1 fibers/cc during asbestos stripping.

Since insulators wore masks and disposable coveralls, exposure was probably less than .1 fibers/cc TWA.

CONCLUSIONS

By fully complying with asbestos handling procedures, insulator personnel were not overexposed to asbestos nor was the area filled with asbestos dust to potentially expose other employees.

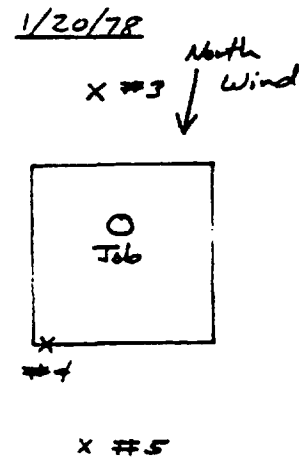
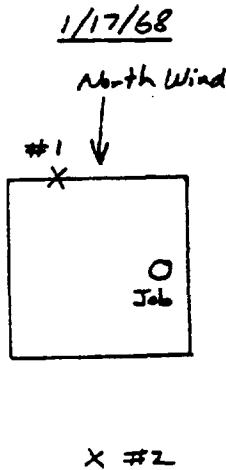
RECOMMENDATIONS

The Glycerine Plant and Insulation Department should continue strict compliance with Dow's asbestos handling procedure to minimize personnel exposure.

EHS
RLC/bbs
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TABLE I
AREA ASBESTOS LEVELS



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POINT NO.	LOCATION	FIBERS/CC $\geq 5 \mu$ (LENGTH)
1	Second floor of structure upwind	< .1
2	30' downwind of structure breathing zone height	< .1
3	20' upwind of structure 4' off ground	< .1
4	Structure downwind 4' off ground	< .1
5	30' downwind of structure 4' off ground	< .1

PERSONNEL	JOB CLASSIFICATION	DATE	FIBERS/CC $\geq 5 \mu$ (LENGTH)
Perales, G.	Contractor	1/17/78	< .1
Perales, G.	Contractor	1/20/78	.1