



DOW CHEMICAL U.S.A.

PLAINTIFF'S EXHIBIT

DOW-772

TEXAS DIVISION

FREERPORT, TEXAS 77541

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ENVIRONMENTAL HEALTH REPORT

ASBESTOS MONITORING DURING DEMOLITION
OF THE HOSPITAL PENTHOUSE
MAJOR UNIT DEMOLITION, APB

81-2954

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Summary

Asbestos monitoring was done during the stripping of asbestos from piping and vessels in the penthouse of the former Community Hospital prior to demolition of the penthouse. The monitoring was done to assure that the use of approved job procedures was effective in controlling airborne concentrations of asbestos.

The area and personnel samples were within acceptable limits at 0.04 fibers/cc and 0.19 fibers/cc respectively. The 0.19 fibers/cc represents a potential exposure since personnel wore all required protective equipment during the asbestos removal.

The results of the report should be furnished to Industrial Specialists, Inc., the contractor for the job. A Contractor Appendix is attached for distribution to the contractor.

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AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

ST0015063

INTRODUCTION

Asbestos monitoring was done during the stripping of asbestos from piping and vessels in the penthouse of the former Community Hospital prior to demolition of the penthouse. The monitoring was done to assure that the use of standard job procedures were effective in controlling airborne concentrations of asbestos.

METHODOLOGY

All samples of asbestos were collected using calibrated Gilian HFS-113A air sampling pumps to pull a known volume of air through 25 mm cellulose ester membrane filters, 0.8 um pore size. Samples were collected at a flow rate of approximately one liter per minute. The filters were prepared and counted by McKee Environmental Health Services using phase contrast microscopy. The method used is NIOSH Method 7400.

EVALUATION CRITERIA

The evaluation of exposure levels was based on the following criteria:

	<u>OSHA PEL</u>
Asbestos	2 fibers/cc*

* Beginning in January, 1987, the OSHA PEL will be 0.2 fibers/cc

The OSHA PEL (Permissible Exposure Limit) is the time-weighted average concentration for a normal 8-hour work day, 40-hour work week, to which nearly all workers may be repeatedly exposed without adverse health effects.

RESULTS AND CONCLUSIONS

Table I shows the monitoring results. The airborne concentrations were within the acceptable limits. The potential exposure to personnel was 0.17 fibers/cc. All personnel wore the protective equipment required by the "Texas Operations Asbestos Handbook". The worker removed asbestos from piping in the confines of the penthouse and cleaned up the area at the end of the shift. The area sample was taken in the center of the work area.

RECOMMENDATIONS

Approved guidelines for asbestos handling and removal were followed on the day of monitoring and showed acceptable levels of asbestos. These guidelines must be followed at all times.

The contractor with employees associated with the job must be furnished with the results of this report, required to inform his employees and verify, in writing, that the informing has been completed. A Contractor Appendix is attached.

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TABLE I

SUMMARY OF ASBESTOS MONITORING
B-105 HOSPITAL DEMOLITION

<u>Sample Number</u>	<u>Type of Sample</u>	<u>Date</u>	<u>Sample Time (Min)</u>	<u>Concentration fibers/cc</u>
B105-515-2	SS#303-80-7046	5-15-86	465	0.19
B105-515-1	Area-on compressor in the center of the room	5-15-86	470	0.04

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