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TITLE: **ASBESTOS MONITORING DURING TRANSITE REMOVAL AT FABRICATION SHOP,
B-105, BY THE PLANT B CARPENTERS**

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PLAINTIFF'S EXHIBIT

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SUMMARY

Area asbestos monitoring was done during a transite removal job at B-105 Fabrication Shop on February 9, 10 and 13, 1989. The monitoring was done to ensure that the approved asbestos handling procedures would result in acceptable airborne concentrations of asbestos.

All measured asbestos concentrations were well below the OSHA Permissible Exposure Limit (PEL) of 0.2 fibers per cubic centimeter. The highest level found was 0.05 fibers per cubic centimeter during the transite removal job.

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**ASBESTOS MONITORING DURING TRANSITE REMOVAL AT FABRICATION SHOP,
B-105, BY THE PLANT B CARPENTERS**

INTRODUCTION

Area monitoring for asbestos was done during the removal of transite panels located in the Fabrication Shop, B-105. The removal was done by Dow Plant B Carpenters. The monitoring was conducted to ensure that the use of approved job procedures would result in acceptable concentrations of asbestos.

CONCLUSIONS AND RECOMMENDATIONS

1. All measured asbestos concentrations were well below the OSHA Permissible Exposure Limit (PEL) of 0.2 fibers per cubic centimeter. The highest level found was 0.05 fibers per cubic centimeter during the transite removal. All exposures were potential since workers within the regulated areas wore half-face respirators with high-efficiency particulate air (HEPA) cartridges.
2. Texas Operations asbestos handling procedures must always be followed. The Texas Operations Asbestos Handbook and Safety Standard T-12 must be reviewed. These procedures are designed to make the transite removal jobs safe. If these procedures are not followed, a potentially serious exposure or safety situation may result. For this reason, the asbestos handling procedures must be reviewed, understood, and enforced by all personnel involved in the asbestos removal jobs.

RESULTS AND DISCUSSION

Table I shows the results of area monitoring during the removal of transite panels. The highest area measurement was 0.05 fibers per cubic centimeter, located in the shop area near the removal site. Results showed that all measured concentrations were well below the OSHA PEL of 0.2 fibers per cubic centimeters.

The results clearly showed that the potential for harmful exposure to asbestos during the transite removal job was very low. As long as the proper procedures for asbestos handling are followed there should be no problem of overexposure to asbestos. The procedures for transite removal are outlined in the Texas Operations Asbestos Handbook.

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METHODOLOGY

Asbestos samples were collected using Gilian HFS 513A and 113A air sampling pumps. A known volume of air was pulled through a 25 millimeter mixed cellulose ester membrane filter, 0.8 micron pore size. Samples were collected at a flow rate of approximately 2.0 liters per minute. The pumps were calibrated before and after the sampling, and the samples were counted by McKee Environmental Health Services using phase contrast microscopy. NIOSH method 7400 used.

EVALUATION CRITERIA

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

<u>AGENT</u>	<u>EXPOSURE GUIDELINE</u>	<u>SOURCE</u>
Asbestos	0.2 fibers/cc	OSHA (PEL)

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

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TABLE I
ASBESTOS MONITORING DURING TRANSITE REMOVAL
AT B-105 FOR THE FABRICATION SHOP

AREA	SAMPLE NUMBER	DATE	SAMPLE TIME (MIN)	CONCENTRATION (fibers/cc) TWA
In shop area near removal site	2889-2	2-9-89	441	0.050
Outside perimeter line near disposal pallets	2889-3	2-9-89	441	0.004
In shop area near south door	2889-4	2-9-89	441	0.006
In shop area near removal site	2889-5	2-10-89	435	0.010
Outside perimeter line near disposal pallets	2889-6	2-10-89	455	0.004
In shop area near south door	2889-7	2-10-89	450	0.003
In shop area near removal site	2889-10	2-13-89	335	0.006
Outside perimeter line near disposal pallets	2889-11	2-13-89	331	0.003
In shop area near south door	2889-12	2-13-89	331	<0.010

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