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TEXAS OPERATIONS
FREEPORT, TEXAS 77541

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INDUSTRIAL HYGIENE REPORT

PERSONNEL MONITORING OF ASBESTOS FIBERS
DURING DEMOLITION OF A-100 BLOCK
CHLOR ALKALI PLANT

FILE NO. A1-2772

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CHECKED R. L. Daniel

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Summary

Asbestos insulation was removed from two gas turbine generators located at the Chlor-Alkali plant, A-100, which is currently under demolition.

Asbestos was removed according to procedures outlined in the Texas Operations "Asbestos Handbook" (April, 1985), Section IV.

SPN Dismantling, Inc. employees eight-hour time-weighted average exposures to asbestos fibers did not exceed 0.11 fibers/cc. These results are well within the Dow Industrial Hygiene Guidelines of 2.0 fibers/cc.

ST0015014

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INTRODUCTION

SPN Dismantling, Inc. was contracted by Texas Operations to remove asbestos insulation from two gas turbine generators located at the A-100 Chlor-Alkali plant which is currently under demolition.

The asbestos removal job took two, eight- hour days to complete in which personnel were monitored for one, eight-hour period. Asbestos monitoring of contractor personnel was done to verify that the job procedures were adequate to assure compliance with OSHA Standard 1910.1001 and Texas Operations Safety Standard No. 45.

MONITORING METHODOLOGY

Asbestos samples were taken with battery operated MSA sampling pumps, calibrated for 2 liters/min. flow rates before and after sampling. Asbestos was collected on a 37 mm filter holder containing a 0.8 micron Millipore Type AA filter. Fibers were counted by the Analytical Services Department.

EVALUATION CRITERIA

The evaluation of exposure levels were based on the following criteria using the more stringent of established or recommended guidelines:

	Dow IHG (Fibers/CC)	TLV (Fibers/CC)
Asbestos	2.0*	2.0*

* If greater than 5.0 micrometers in length

The Dow Industrial Hygiene Guide and Threshold Limit Value(TLV) are measures of acceptable 8-hour time-weighted average exposures.

RESULTS AND CONCLUSIONS

Two SPN Contractor personnel were monitored on February 7, 1985 while removing asbestos from two gas turbine generators at the A-100 block. The results are as follows:

Contractor	Badge No.	8-Hour (Fibers/CC)	Weather Conditions
SPN	SC 585-1751	0.05	North wind @ 12 MPH
SPN	SC 585-5720	0.11	" " " "

The above results show both time-weighted averages to be below the current guidelines of 2 fibers/cc. SPN personnel for this particular job task are not being overexposed to airborne asbestos fibers.

RECOMMENDATIONS

SPN supervision should inform all employees with a potential for exposure to asbestos of the hazards of overexposure to asbestos fiber: the informing should be documented.

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