PLAINTIFF'S EXHIBIT

UC-2690

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Date: February 6, 1979

Originating Dept: Technical Center IH/EP

Subject: Asbestos Monitoring at Sevin Shipping

INTRODUCTION On January 22, 1979, Messrs. C. C. Bragg and C. R. Lanier were monitored for exposure to asbestos during the removal of insulation from the flanges of a pipe line in Building 233, the Sevin Shipping area.

SUMMARY AND CONCLUSIONS The asbestos concentrations in the breathing zones of the insulators were 7.75 and 5.37 fibers/cc while an area sample indicated a concentration of 0.3 fibers/cc. Both men wore respirators during the entire operation, but facial hair on each man possibly prevents an adequate seal. The OSHA ceiling limit for asbestos is 10 fibers/cc. The OSHA standard for an eight-hour time-weighted exposure is 2 fibers/cc. Due to the short exposure time (25 minutes), the insulators' TWAs would not exceed the OSHA standard without further exposure. However, in future operations where large amounts of water cannot be used to reduce emission of airborne asbestos fibers, a garden sprayer might be used since a finer spray and smaller volumes of water can be used.

DISCUSSION Mr. C. C. Bragg and Mr. C. R. Lanier wore personal samplers while removing insulation from the flanges of a pipe line in Building 233. Due to the storage of Sevin directly under the pipe line being worked on, the insulation could not be watered down during removal. Both men wore respirators. One man stripped the insulation while the other held a plastic bag directly under the flange to catch the insulation. The effectiveness of this procedure in keeping down airborne asbestos dust in the surrounding area was indicated by a sample taken eight feet below the first flange which showed a concentration of 0.3 fibers/cc. The personal samples indicated concentrations of 7.75 fibers/cc and 5.37 fibers/cc for a twenty-five-minute exposure. Further exposure was minimal since the pipe was to be

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dismantled at the flanges and taken outside where it could be wetted with water before, during, and after removal.

DATA

Date	Sample	Sampling Time	Air Conc. Fibers/cc
01/22/79	C. C. Bragg	0855 - 0920	7.75
01/22/79	C. R. Lanier	0855 - 0920	5.30
01/22/79	Area Sample below first flange	0855 - 0920	0.30

REFERENCES (1) UCC C/P Industrial Hygiene Method 38C-29X4-R1a
(2) 29 CFR 1910.1001

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