PLAINTIFF'S EXHIBIT
UC-1110

Industrial Hygiene Department PRELIMINARY REPORT	Plant: 515 Date: 11/14/73	DISTRIBUTION: TO: COPIES: Mr. J. H. Rapp Mr. T. L. Rapp I. H. File D. H. Glenn, M.D.

PROBLEM:

Monitor insulation removal from heat exchanger located in Bldg. 215.

Insulator: H. L. Light
Requested By: J. H. Rapp

PROCEDURE:

UCC Method 38C - 29X4 - R1a

Membrane Filter Technique using Phase Contrast Microscopy

RESULTS:

Personnel sample was less than one fiber per cubic centimeter greater than five microns in length.

Threshold Limit Value for Asbestos 5 Fibers/cc > 5 Microns

RECOMMENDATIONS:

Proper handling of insulation and clean up of scrap should be maintained to keep personnel exposure below the Threshold Limit Value.

REMARKS:

Refer to Attachment.

UCTC 09154

Surveyed By: C. A. Hester E. Henry

Approved By: D. E. Deese

D. E. Deese
Senior Industrial Hygienist
Gulf Coast Area

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

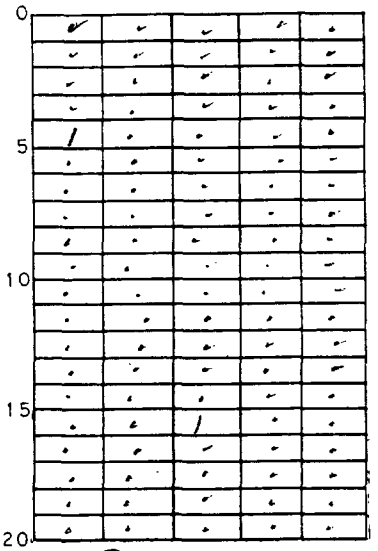
Department: INSULATORS Bldg. 215 Date 6-20-73 Time 2:41 - 2:52 PM

Sampled By: JERRY Analyzed By: JERRY / HESTER Method: 38C-29X4-R1a

General Conditions: INSULATOR - H.L. LIGHT REMOVING KAYLO INSULATION FROM A 2' SECTION OF A HEAT EXCHANGER FOR REPAIR WORK. THE INSULATION WAS CAREFULLY REMOVED AND PLACED IN PLASTIC BAGS TO BE REPLACED AFTER REPAIR WORK IS COMPLETED. ALL DEBRIS WAS CLEANED UP AND PUT IN PLASTIC BAGS FOR DISPOSAL. (KAYLO WAS NOT WETTED DOWN)

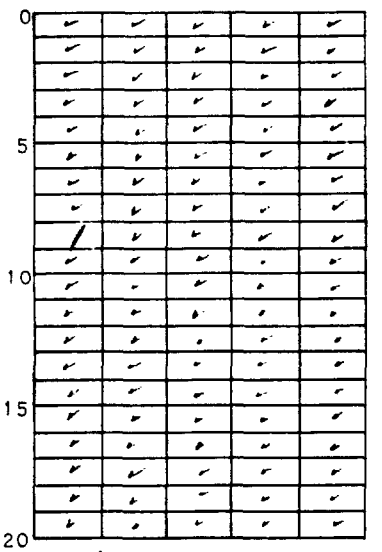
FIBER COUNT (Fibers > 5μ in Length)

Slide 1



Total 2 Avg. 0.02

Slide 2



Total 1 Avg. 0.01

CALCULATIONS

SAMPLE VOLUME: 10 Min. @ 2 LPM = 20 LITERS

$$\frac{(\text{Avg.Fiber Count}-\text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers/cc} > 5\mu$$

1. $\frac{(0.02 - 0)(855)}{(0.01496)(20)(1000)} = 0.057$ Fibers/ cc > 5μ

AVG. 0.043

2. $\frac{(0.01 - 0)(855)}{(0.01496)(20)(1000)} = 0.029$ Fibers / cc > 5μ

Special Conditions: _____

Remarks: _____

UCTC 09155