PLAINTIFF'S EXHIBIT
UC-1103

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY
PLANT: 510

Department SCRAP POLY RECOVERY Bldg. LONG MOTT GIN Date 11-12-74 Time 1:41PM

Sampled By: L.G. McMULLEN Analyzed By: L.G. McMULLEN Method: 38C-29X4-R1a

General Conditions: THE SAMPLE WAS COLLECTED INSIDE THE LONG MOTT GIN ON GROUND LEVEL NEAR THE DRYING BIN. VISIBLE DUST WAS VERY HEAVY. A STRONG NORTH WIND WAS BLOWING THE BUILDING. DOORS WERE OPEN ON THE SOUTH AND EAST SIDES. HOPPER VAN NO. 15148 WAS BEING DRIED.

FIBER COUNT (Fibers > 5μ in Length) SAMPLE NO. 00231

	Slide 1		Slide 2	
1	001	11 0000001	1 0000	11 0000002
2	100	12 1000010	2 1000	12 2010001
3	100	13 0000000	3 0001	13 0000001
4	000	14 0000100	4 0000	14 0010002
5	000	15 0110020	5 0000	15 1010001
6	100	16 0000100	6 0000	16 0000002
7	000	17 0001000	7 0000	17 0000111
8	001	18 0020101	8 0111	18 1000000
9	100	19 0000110	9 0000	19 0100010
10	000	20 0000000	10 000	20 0100010
Total	22	Avg. 0.22	Total 27	Avg. 0.27

CALCULATIONS

SAMPLE VOLUME: 30 Min. @ 2 LPM = 60 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. $\frac{(0.22 - 0)(855)}{(0.00731)(60)(1000)} = 0.43$ Fibers/ cc > 5μ

2. $\frac{(0.27 - 0)(855)}{(0.00731)(60)(1000)} = 0.53$ Fibers / cc > 5μ

Special Conditions: DATA INDICATES THAT DURING THE SAMPLING PERIOD, THIS OPERATION WAS WITHIN THE 5 FIBERS/cc >5μ IN LENGTH TLV FOR ASBESTOS.
ASH CONTENT IN HOPPER VAN 15148 = 1.11%.

Remarks: RESPIRATORY PROTECTION IS RECOMMENDED FOR THE LONG MOTT GRAIN DRYER EMPLOYEES.

UCTC 09174

Union Carbide trial exhibit UC-1103: L. G. McMullen, Industrial Hygiene Asbestos Dust Study of Long Mott Gin, Scr... Published by AsbestosClaims.Law
ACL Doc 16285 · Page 1 of 2 asbestosclaims.law/library/16285/1

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LET THE TURKEY BE THE ONLY ACCIDENT VICTIM THIS MONTH

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