PLAINTIFF'S EXHIBIT
UC-1113

SD
Asbestos

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

PLANT: FIC

Department SCRAP POLY RECOVERY Bldg. LONG MOTT GIN Date 10-28-74 Time 2:55PM

Sampled By: L. G. McMULLEN Analyzed By: L.G.McMULLIN Method: 38C-29x4-R a

General Conditions: THE SAMPLE WAS COLLECTED INSIDE THE LONG MOTT GIN ON GROUND LEVEL NEAR THE DRYING BIN. DUST WAS VISIBLE AND HEAVY. A STRONG SOUTH WIND WAS BLOWING THRU THE BLDG. DOORS WERE OPEN ON THE SOUTH AND EAST SIDES. HOPPER VAN NO. 15128 WAS BEING DRIED.

FIBER COUNT (Fibers > 5μ in Length) SAMPLE NO. 00226

	Slide A		Slide B	
1	0 0	11 0 0 0 1 2 0 0 0	1 0 0 2 0	11 0 0 0 0 0 0 0
2	0 0	12 1 0 0 0 0 0 0 0	2 0 0 0 0	12 0 0 2 0 0 0
3	0 0	13 0 0 0 0 0 0 0 0	3 0 0 0 0	13 1 1 0 0 1 0
4	2 0	14 0 0 0 0 0 0 0 0	4 0 0 0 0	14 1 0 1 0 0 0
5	0 0	15 0 0 0 0 0 0 0 0	5 0 0 1 1	15 0 1 0 0 0 0
6	0 0	16 0 0 0 0 1 0 0 1	6 0 0 0 0	16 0 1 0 1 0 0
7	0 0	17 0 0 0 0 1 0 0 0	7 1 0 1 0	17 0 0 0 1 0 1
8	0 1	18 0 1 0 0 1 0 0 0	8 0 0 3 0	18 0 0 0 0 0 1
9	1 0	19 0 0 0 0 0 0 0 0	9 0 0 0 0	19 0 0 0 0 1 1
10	2 1	20 1 0 0 0 0 0 0 0	10 0 0 2 1	20 0 1 0 0 0 0
Total	17	Avg. 0.17	Total 28	Avg. 0.28

CALCULATIONS

SAMPLE VOLUME: 30 Min. @ 2 LPM = 60 LITERS

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

A. $\frac{(0.17 - 0)(855)}{(0.00731)(60)(1000)} = 0.33$ Fibers per ~~Milliliter~~ c.c. > 5μ

ASH
20.0103 Gm TOTA.
0.1057 Gm ASH
0.532% ASH

B. $\frac{(0.28 - 0)(855)}{(0.00731)(60)(1000)} = 0.55$ Fibers per ~~Milliliter~~ c.c. > 5μ

Special Conditions: DATA INDICATES THAT DURING THE SAMPLING PERIOD, THIS OPERATION WAS WITHIN THE 5 FIBERS/cc > 5μ IN LENGTH THRESHOLD LIMIT VALUE (TLV) FOR ASBESTOS.
ASH CONTENT IN HOPPER VAN 15128 = 0.532%.
SAMPLING WILL CONTINUE ONCE PER WEEK DURING THIS DRYING OPERATION.

Remarks: RESPIRATORY PROTECTION IS RECOMMENDED FOR THE LONG MOTT GRAIN DRYER EMPLOYEES TO PROTECT THEM FROM NUISANT DUST.

UCTC 09172

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