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UNION CARBIDE

INTERNAL CORRESPONDENCE

U.C.C. CHEM. & PLASTICS
KING CITY, CALIF.

AUG 31 1967

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To (Name) Mr. J. A. Riddle
Division Chemicals and Plastics
Location P. O. Box "K"
King City, California 93930

Date August 29, 1967

Originating Dept. Medical

Answering letter date

Subject

Copy to Drs. Welsh/Lane

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Dear Mr. Riddle:

The results of the survey of dust concentrations 8/22/67 - 8/23/67 at the asbestos mill at King City, California, were as follows:

SAMPLING LOCATION	DATE	DUST MPPCF*	REMARKS
Mill roadway - east of mill and 400 feet south of ore pile. Strong wind from north.	8/22/67	~~20.4~~ 15.3	Probable mixture of ore dust, road dust, and tailings dust.
South line fence - 280 feet downwind of dryer stack. Strong wind from north.	8/22/67	16.7 18.2	Obvious dust discharge from 25' stack. Much fiber in sample.
Beside bagging machine operator. (Respirator worn by operator.)	8/22/67	17.8 19.2	Dust losses from overhead.
Same location but wet end of mill not operating.	8/23/67	18.7 20.1	Same as above.
Area around automatic palletizer.	8/22/67	15.8 19.1	Visible dust losses at operation. Respirator worn by pallet handler.
Filter press area - general.	8/22/67	5.0 3.1	Entire mill operating.
Com Bin Feeder and screen areas	8/22/67	2.9 2.0	Entire mill operating.

PLAINTIFF'S EXHIBIT
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Shaker table area.	8/22/67	2.7 2.0	Entire mill operating.
Floor area around office space - general.	8/22/67	6.1 5.9	Entire mill operating.
Discharge end of bag conveyor during manual pallet loading.	8/23/67	13.3 15.4 11.2	Wet end of mill not operating during this period. Some dust may have drifted in from outside during dryer repair, 8/23/67.

*MPPCF - Millions of particles per cubic foot of air.

The recommended limit for airborne dust concentrations inside the mill buildings and at work areas outside is 5.0 MPPCF. This limit refers to total dust as determined by light field microscope counting procedures.

The present survey showed that at work points on the dry side of the mill circuit dust concentrations were generally considerably greater than the limit. At downwind areas outside the buildings high concentrations were also encountered. The latter findings, of course, reflect to some degree the general natural dustiness of surrounding fields, etc.; however, a considerable amount of fiber was noted in the samples.

At the wet areas of the mill circuit dust counts were not excessive.

It was recommended that early consideration be given to better dust control at dry portions of the milling circuit. Continued operation under present conditions will tend to increase dust levels in time throughout the building.

It was suggested that plans be made for conduct of dust counts at some more dust-free area than the laboratory. Experience is showing that it is increasingly difficult to obtain accurate counts at this location.

Very truly yours,

Paul W. McDaniel

Paul W. McDaniel
Industrial Hygiene Engineer

PWM:dmf