



INTERNAL CORRESPONDENCE

UNION CARBIDE CORPORATION

To (Name) Mr. F. H. Larrison, Jr.
Division Mining & Metals Division
Location P. O. Box K
King City, CA 93930

Copy to Mr. E. A. Piersall
Mr. W. C. Thurber
Dr. J. J. Welsh / Dr. K. S. Lane

UCC - CALIFORNIA
KING CITY, CA.

Date December 4, 1973

Originating Dept. MEDICAL DEPARTMENT

Answering letter date

Subject

CONFIDENTIAL

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270 PARK AVENUE, NEW YORK, NEW YORK 10017

Dear Mr. Larrison:

Attached is the tabulation of the fiber counts I obtained for air samples collected at King City, November 13 & 14, 1973. I have included the calculated time weighted averages, where applicable, based on the total periods of sample collection. I believe in most cases these can be considered as reasonably representative of the entire work day.

In the job description bagger-loader, the designation "loader" refers to the individual operating the palletizer. As you know, these two jobs (bagger-loader) are traded back and forth between the individuals involved. In the table the underlined word refers to the operation being performed by that individual during the sampling period (or the greater portion of the sampling period). Findings rather clearly imply that the bagger operator is more likely to have the higher exposure than the man operating the palletizer. This, of course, cannot be assumed to be invariably the case since the breaking of a bag on the palletizer would produce considerable fiber at that point.

408377

Mr. F. H. Larrison

-2-

December 4, 1973

The time weighted average fiber counts for all operations or areas checked during this study were below 5.0 per ml. However, for several sampling intervals the concentration of fiber rose above this figure and probably reflected the effect of bag breakage. It is possible that had the samples been collected for shorter intervals, the counts that imply bag breakage would, in some cases, be higher.

The counts for the resin grade bagging operations continue to be low even though there is visible fiber in the air. We will continue to look into this phenomena with a critical eye.

Very truly yours,

P. W. McDaniel
P. W. McDaniel
Industrial Hygiene Engineer

PWM/jr
Enclosure

408378

AIRBORNE FIBER COUNTS
King City, California
November 13, 14, 1973

Location and / or Operation	Date	Time	Fibers Per Ml (+5 micron)	Time Weighted Average Fibers/ml
Bagging-Palletizing Operation	11/13/73			
Bagger-Loader #1		8:59-9:45	5.30	
Bagger-Loader #1		9:45-10:31	1.88	
Bagger-Loader #1		10:31-11:07	2.91	
Bagger-Loader #1		11:07-11:50	2.96	3.53
Bagger-Loader #1		11:50-12:52	3.81	
Bagger-Loader #1		12:52-1:30	2.82	
Bagger-Loader #1		1:30-2:34	1.10	
Bagger-Loader #1		2:34-3:32	7.11	
Bagger-Loader #2		9:00-9:45	1.18	
Bagger-Loader #2		9:45-10:30	7.16	
Bagger-Loader #2		10:30-11:05	0.52	
Bagger-Loader #2		11:05-11:57	0.70	2.05
Bagger-Loader #2		11:57-12:54	2.18	
Bagger-Loader #2		12:54-1:35	2.63	
Bagger-Loader #2		1:35-2:33	1.28	
Bagger-Loader #2		2:33-3:28	1.12	
Resin Grade Bagger		9:15-9:56	0.20	
		9:56-10:39	0.27	
		10:39-11:10	0.34	
		11:10-11:56	0.11	0.35
		11:56-1:01	0.19	
		1:01-1:37	0.30	
		1:37-2:44	0.11	
		2:44-3:36	1.30	

408379

ATHBORNE FIBER COUNTS
King City, California
November 13, 14, 1973

Location and / or Operation	Date	Time	Fibers		Time Weighted Average Fibers/ML
			Per ML	(+5 micron)	
Wet circuits-General	11/13/73	9:27-10:09	0.10		
		10:09-10:42	0.11		
		10:42-11:45	0.10		
		11:45-12:59	0.10		
Fork Lift Operator. (storage shed to box cars)		1:10-2:26	0.25		0.20
		2:26-3:23	0.15		
<u>Bagger-Loader #1</u> <u>Bagger-Loader #1</u> <u>Bagger-Loader #1</u>	11/14/73	9:42-10:28	4.38		4.42
		10:28-11:03	5.70		
		11:03-12:51	3.55		
Fork Lift Operator-Loading Trailers.		9:20-10:15	0.31		0.26
		10:15-10:55	0.25		
		10:55-11:41	0.22		
Shifter's Office (General)		9:00-10:00	0.18		0.18
		10:00-11:05	0.16		
		11:05-12:05	0.19		

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