UC 149-2

PLAINTIFF'S EXHIBIT

UC-2459

INTERNAL CORRESPONDENCE

UNION CARBIDE CORPORATION

270 PARK AVENUE, NEW YORK, NEW YORK 10017

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

Date August 7, 1973

Originating Dept.

Answering letter date

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

Subject **CONFIDENTIAL**

Dear Mr. Larrison:

The following are the results of air-borne fiber determinations made at the King City mill and mine July 23, 24, 1973. The air samples were collected consecutively at the various locations indicated, and were either personal samples with the device worn by the operator, or general area samples for which the sampling device was set in selected locations at breathing height. The fibers were determined according to the recommended techniques. The weighted exposures or exposure potentials were calculated from the sampling times and fiber counts.

LOCATION	TYPE OF SAMPLE	TIME OF DAY	FIBERS-5MICRONS and LONGER/ml of AIR	WEIGHTED EXPOSURE BASED ON SAMPLING PERIOD
Bagger operator and/ or pallet loader (standard grade fiber)	PA	9:15-10:25A	6.55	
" "	PA	10:25-11:11A	12.10	
" "	PA	11:11-12:05P	3.20	
" "	PA	1:00- 1:55P	1.17	4.89 fiber/ml
" "	PA	1:55- 2:42P	1.31	
" "	PA	2:42- 3:25P	2.11	
" "	PA	3:25- 4:00P	2.01	

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LOCATION	TYPE OF SAMPLE	TIME OF DAY	FIBERS-5MICRONS and LONGER/ml of AIR	WEIGHTED EXPOSURE BASED ON SAMPLING PERIOD
Bagger Area - General	GA	9:25-10:30A	0.81	
" "	GA	10:30-11:47A	1.01	
" "	GA	1:14- 2:14P	0.42	0.90
" "	GA	2:14- 3:05P	1:29	
" "	GA	3:05- 4:07P	0.99	
Shifter's Office-General	GA	10:35-11:45A	0.40	
" "	GA	11:45-12:55P	0.47	0.42
" "	GA	12:55- 2:20P	0.41	
Sample Balcony-General	GA	2:10- 2:53P	0.69	0.74
" "	GA	2:53- 3:27P	0.81	
Wet Side-General	GA	9:20-10:00A	0.27	
" "	GA	10:00-11:30A	0.64	0.37
" "	GA	1:15- 2:15P	0.29	
Resin Grade Bagger	PA	9:00- 9:40A	0.85	
" "	PA	9:40-10:20A	1.22	
" "	PA	10:20-11:00A	0.76	
" "	PA	11:00-11:40A	0.70	1.11
" "	PA	1:10- 1:50P	0.65	
" "	PA	1:50- 2:30P	1.81	
" "	PA	2:30- 3:10P	1.37	
" "	PA	3:10- 3:50P	1.58	
South Fence Line-General	GA	1:30-2:55P	0.31	0.33
" "	GA	2:55-4:00P	0.35	

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LOCATION	TYPE OF SAMPLE	TIME OF DAY	FIBERS 5 MICRONS and LONGER/ml of AIR	WEIGHTED EXPOSURE BASE ON SAMPLING PERIOD
Mine Site				
Mine Area-				
General	PA	9:30-10:47A	0.58	
" "	PA	10:47-11:30A	0.50	0.55
" "	PA	11:30-12:00N	0.69	
Michigan Loader				
Operator	PA	9:50-10:40A	1.77	
" "	PA	10:40-11:18A	1.14	1.53
" "	PA	11:18-11:55A	1.62	
Caterpillar				
Operator	PA	10:00-10:55A	0.53	
" "	PA	10:55-11:23A	0.49	0.54
" "	PA	11:23-11:58A	0.58	

As you will note actual weighted exposures of personnel or potential exposures as might be expected, for example, in the shifters office were in all cases less than 5.0 fibers per milliliter of air. Nevertheless, in areas involving dry operations personnel wore appropriate respirators. I recommend that this practice be continued until enough information is available that shows we are well within the existed limit of 5.0 fibers/ml and the soon-to-come limit of 2.0 fibers/ml.

For one interval during the activity of the bagger-loader operator in the standard grade area, the concentration of fiber exceeded 10/ml which I believe is an action point in the OSHA regulation even though the weighted average is less than 5 fibers/ml. I believe, you will wish to check in to this.

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