PLAINTIFF'S EXHIBIT
UC-2389

UC 149-2

UNION CARBIDE

INTERNAL CORRESPONDENCE

Dust Sampling

UNION CARBIDE CORPORATION

270 PARK AVENUE, NEW YORK, NEW YORK 10017

To (Name) Mr. F. H. Larrison, Jr.
Division Mining and Metals
Location King City, California
Floor Number

Date July 5, 1974
Originating Dept. Industrial Medicine and Toxicology
Floor Number
Answering letter date
Subject CONFIDENTIAL

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

Dear Mr. Larrison:

Attached are the tabulated findings of my industrial hygiene survey for asbestos in air at King City, June 19, 20, 1974. Mr. Madlangbayan provided very valuable assistance in this endeavor.

The aim of this survey, as in the past, was to provide a fair representation of exposure of personnel to asbestos either by use of serial personnel samples or by serial general area samples where the latter would seem more appropriate. Air samples were collected by the standard technique on Millipore paper. Fiber count was made using a phase contrast microscope at 430X magnification.

Job Classification or Area	Date	Sample Type	Time	Fibers per ml (5 microns or greater in length)	time weighted exposure (or potential exposure value	Remarks
Bagger Area						
Bagger operator (Don Garnica)	6/19	Pers.	9:35 a-10:09 a	3.90		Bagging HP Pellets. Some bag breakage and some down time.
			10:09 a-10:47 a	2.82		
			10:47 a-11:28 a	4.77	3.20	
			11:28 a-12:06 p	1.41		

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Job Classification or Area	Date	Sample Type	Time	Fibers per ml(5 microns or greater in length)	time weighted exposure (or potential exposure value	Remarks
Pelletizer operator (Glen Dills)	6/19	Pers.	9:31 a-10:11 a	1.84		
			10:11 a-10:42 a	3.51		
			10:42 a-11:28 a	1.20	1.93	Same as above
			11:28 a-12:08 p	2.42		
			12:08 p-1:32 p	1.61		
Filter-Dryer Areas						
Filter Press Area	6/19	Gen.	1:55 p-2:35 p	1.00		
			2:35 p-3:10 p	0.91		
			3:10 p-3:35 p	0.87		
Dryer Area		Gen.	2:38 p-3:18 p	1.13		
			3:18 p-3:55 p	1.07		
Fork Lift Operator running from bagger to storage (Jim Vasquez)	6/19	Pers.	1:42 p-2:25 p	0.57	0.56	
			2:25 p-3:25 p	0.54		
Resin Grade Bagging						
Bagger operator (Art Nieto)	6/19	Pers.	9:34 a-9:59 a	1.37		No wind but fiber covered floors. Doors open. Bagging SX 24.
			10:28 a-10:53 a	0.98	1.31	
			10:55 a-11:20 a	1.43		
			11:22 a-11:45 a	1.07		

Job Classification or Area	Date	Sample Type	Time	Fibers per ml (5 microns or greater in length)	time weighted exposure (or potential exposure value)	Remarks
Rock Fiber Circuit Area	6/20	Gen.	9:38 a-10:38 a	0.21		Circuit running normally except for break down of about 85 min
			10:40 a-10:47 a	0.20		
			11:50 a-12:55 p	0.11		
			12:57 p-1:57 p	0.50		
			1:58 p-2:59 p	0.37		
			3:00 p-4:00 p	0.18		
Mechanic - (Ed Sinclair)	6/20	Pers.	9:28 a-9:55 a	1.04		
			9:58 a-10:30 a	0.57		
			10:32 a-10:57 a	0.74		
			10:58 a-11:24 a	0.83	1.15	
			11:26 a-12:54 p	0.54		
			12:54 p-1:19 p	3.01		Working on RG Mill
			1:21 p-1:49 p	1.09		Working outside Mill building
			1:50 p-2:23 p	1.01		Working outside Mill building
			2:23 p-2:45 p	0.92		
			2:48 p-3:13 p	1.75		Painting stairs on RF circuit (outside)
			3:29 p-4:00 p	1.21		Some clean-up in shop
Rock Fiber Circuit operator (outside) (Joe Pereira)	6/20	Pers.	12:59 p-2:07 p	2.01		
			2:07 p-3:05 p	2.00	2.00	Windy

Job Classification or Area	Date	Sample Type	Time	Fibers per ml(5 microns or greater in length)	time weighted exposure (or potential exposure value)	Remarks
Caterpillar operator - ore pile (Rick Camarillo)	6/20	Pers.	12:45 p-1:26 p	1.41	1.96	Windy
			1:36 p-2:18 p	2.83		
J. Deere grader loader operator (Mike Hazelton)	6/20	Pers.	2:19 p-3:10 p	4.61	4.52	Windy
			3:10 p-4:00 p	4.43		

As you will note, none of the counts exceeded 5.0 fibers/ml so for this period the areas and jobs tested were within the limit. However, we continue to demonstrate that at the bagger for standard fiber, the level will probably be in excess of the ~~July, 1976~~ limit of 2.0 fibers/ml more often than not. The concentrations of fiber shown for the John Deere operator were higher than I would have guessed but probably reflects the windy conditions at the time.

Very truly yours,

Paul W. McDaniel

Paul W. McDaniel
Industrial Hygiene Engineer

PWM:lk