(MINING)

STATE OF CALIFORNIA—HUMAN RELATIONS AGENCY — RONALD REAGAN, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF INDUSTRIAL SAFETY
455 GOLDEN GATE AVENUE
SAN FRANCISCO

November 30, 1971

RECEIVED
DEC 8 1971
STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS
UCC - CARIBBEAN DIVISION OF INDUSTRIAL SAFETY
KING CITY, 550 MARIPOSA STREET, ROOM 4065
FRESNO, CALIFORNIA 93721

Union Carbide
Attention Mr. Larry Larrison, Manager
P. O. Box K
King City, California 93930

Accident Prevention Report

AN ACCIDENT PREVENTION SURVEY OF YOUR mining (pit) asbestos (mill)
Type of operation

LOCATED in King City (Monterey County)

MADE BY SAFETY ENGINEER T. E. Davies - 33 DATE 10-5-71

EXPLAINED TO Roger O. Hopper, Mine Foreman COMPLIANCE DATE 1-20-72

Requirements for the elimination of unsafe conditions are listed below. These unsafe conditions are in violation of lawful orders enforced by the Division of Industrial Safety.

The numbers following the requirements listed refer to sections of the California Administrative Code, Title 8, Title 24 (T24) or Labor Code (LC).

Federal Mine I.D. #4000-00-04-035 — 20 employees

BAGGING AREA

1. As indicated in the attached dust survey report, the compressed air bagging machine operation causes asbestos fiber count readings to be as high as eight (8) times the TLV allowable. In this area are personnel who wear respirators 8 hours a day.

Take the necessary measures to control the dust and fibers through local exhaust ventilation in the bagging operation, or provide air supplied hoods to personnel working in high dust areas, in place of the cartridge type respirators. 4102.

Frank Warren
Senior Safety Engineer
Industrial Section

/ala
"enc"

PLAINTIFF'S EXHIBIT
UC-2452

Safety Orders of the Division of Industrial Safety may be purchased from Office of Procurement, Documents Section, P.O. Box 20191, Sacramento, California 95820

FORM S-264-SF (REV. 8-68)

47888-907 10-70 10M ① OSP

UCC 015386

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E. Davies

Memorandum

To : L. McCune
DIS - SF

Date: October 21, 1971

Subject: UNION CARBIDE ASBESTOS MILL
KING CITY

From : Department of Industrial Relations
W. Van Sandt
DIS - SF

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KING CITY, CA.

We made an industrial hygiene survey of this plant on October 5, 1971. Air samples were collected on millipore filters for asbestos fiber determination. All counts were made at 430X magnification phase contrast illumination. The slides were prepared by the standard method as outlined by the U. S. Department of Health Service.

LOCATION AND OPERATION	Fibers per 1 ml of Air Greater Than 5 microns in Length
Bagging Department	
a. Left side of the compressed air bagging machine. Bags being filled on right side only.	15.0
b. Right side of compressed air bagging machine. Bags being filled on this side only.	42.5
c. Pallet loading machine. Full bags.	13.2
d. General room sample in bagging department. Taken just inside sliding door.	5.5
Milling and Refining Circuits Area. Floors are wet. Some 50 gallons of water per pound of asbestos ore are used in this area of the mill.	2.0
Press-Drying Circuits. The floors are dry, but the asbestos is wet.	2.2
Control Laboratory.	2.2

NOTE: The TLV for asbestos fibers is 5 fibers per 1 milliliter of air greater than 5 microns in length. This is equivalent to 5,000 fibers per liter of air or 141,500 fibers per cubic foot of air.

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As would be expected, the bagging department is above TLV. The vicinity of the compressed air bagging machine is exceptionally high, being around 8 times the TLV in fiber count. This machine appears to be the only dust generator in the bagging area. The operator wears a respirator 8 hours a day. The pallet loader does not appear to generate any dust when full bags of asbestos are handled. Asbestos fibers appear to be carried by air currents over to the vicinity of the pallet loader. The fork lift operator wears a respirator all day.

It appears that if the fiber and dust from the bagging machine were controlled, the complete bagging area would be well within TLV limits for asbestos fiber. If this proved to be the case, respirators would not have to be worn in this area. If local exhaust ventilation on the bagger does not prove practical, the operator should be placed in an air-supplied hood. The air supply to the hood should be filtered and determined to be free of asbestos fibers. Likewise, the fork lift operator should be equipped with some portable type of air-supplied system free of asbestos fibers.

This Division recommends consultants who are specialists in various fields. As a matter of Division policy three or more consultants are to be named; sometimes, three or more consultants are not available.

Frederiksen Engineering Company has had extensive experience in the field of industrial hygiene ventilation. They have installed exhaust ventilation in some asbestos mills. Frederiksen is located at 1755 Broadway in Oakland; telephone number 452-3970.

I do not know of other consultants in the Bay Area with experience in the control of asbestos fiber emissions.

Walter A. Van Sandt
Industrial Hygiene Engineer
Environmental Engineering Unit

/ajs
cc(2) E. Davies
cc F. Warren
K. Nobs
EEU-LA

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Station — Rock Fiber | Filter Bass Area | Staple Packaging | Pelletizer Area | Bagging Op. (Stacking) | South Face Line | North Face Line | Bag Conveyor

		+5M	Total	+5M	Total	+5M	Total	+5M	Total	+5M	Total	+5M	Total	+5M	Total	+5M	Total
January	(A)	2	29	1	43	3	45	13	135	18	219	1	24	1	18		
	(b)	2	32	2	35	2	30	22	171	28	223	1	19	1	11		
								— SG-210 —				— 15 MPH Wind —					
February	(A)	3	25	6	47	2	25	6	39	49	158	1	21	3	31		
	(b)	3	45	5	41	2	24	6	47	51	144	3	31	2	25		
								— SG-100 —				— 5 MPH Wind —					
March	(A)	2	52	2	22	3	26	55	122	92	187	2	24	1	22		
	(b)	1	27	2	33	1	24	47	141	84	162	1	30	1	20		
								— RG-110 —				— 15 MPH Wind —					
April	(A)	1	21	4	30	2	42	70	144	86	165	3	37	3	39		
(Apex)	(b)	3	22	3	25	3	35	56	125	80	145	3	33	2	24		
								— SG 210 —									
May	(A)																
	(b)																
June	(A)	3	34	2	31	2	26	11	60			3	33	3	31	7	60
	(b)	4	37	4	36	2	24	10	66			3	26	2	26	5	46
								(HPP)				— 15 MPH Wind —				— AC-144 —	
July	(A)																
	(b)																
August	(A)	8	54	4	27	2	19	6	44	14	134	3	21	2	30		
(SV)	(b)	6	35	4	30	3	13	4	47	15	99	2	29	3	20		
								— Super Vis —				— No Wind —					
September	(A)	5	36	5	38	10	37			35	129	4	26	4	23	19	77
	(b)	5	38	4	34	9	38			9	66	4	24	4	K	19	91
												— 5 to 10 MPH Wind —					
October	(A)	3	32	4	24	3	13			25	522	4	36	7	65	2	18
(T350)	(b)	5	50	3	21	2	22			21	633	3	32	5	46	5	21
								— T350 —				— 20 to 25 MPH Wind —					
November	(A)	3	25	4	39	11	101	24	88	56	128	1	14	2	22		
	(b)	3	67	1	25	5	51	29	86	69	137	3	30	3	30		
								— SG 210 —				— Slight breeze —					
December	(A)																
	(b)																
												Σ 45		49			
												÷ 18		18			
												$\bar{x}$ 2.5		2.72			

CAL—14

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