PLAINTIFF'S EXHIBIT

UC-3184

UNION CARBIDE

INTERNAL
CORRESPONDENCE

UNION CARBIDE CORPORATION TECHNICAL CENTER
P.O. BOX 8361, SOUTH CHARLESTON, WV 25303

To (Name) P. P. Price
Division D. E. Raines
Location
Area

Date November 18, 1981

Originating Dept. IH/EP

Area

Subject Dust Monitoring in Construction Department Insulation Shop Institute Plant

Copy to C. W. Carman
M. L. Mills
L. R. Noble
D. R. Paugh
R. E. Peele
H. H. Frazier
R. J. Sexton, M.D.
F. Williams

Gentlemen:

The Institute Plant Industrial Hygiene group has completed monitoring of airborne dust in the Construction Department, Insulation Shop, during the month of October 1981. During the monitoring KAYLO-10 and perlite insulation materials were being handled. Fourteen personal samples, one source sample, and fifteen area samples were collected in the area of band saws where three-inch thick blocks of insulating materials were being sawed. The samples collected were analyzed by gravimetric technique for determining the total dust contents. The results of the monitoring are shown in the attachment.

The Threshold Limit Value (TLV) for perlite assigned by the A.C.G.I.H. is 10 mg/m^3. This value is equivalent to a TLV standard for the total nuisance dust. In general, the air levels of the dust were found to be lower than the TLV.

The on-site personnel complained of personal discomfort as a result of drying of the skin and the nasal membrane when working with the perlite materials. It was observed that a considerable amount of dust became airborne in the process of stacking and general handling of the sawed blocks.

While there is in existance a ventilation facility for controlling the dust generated from the sawing operations, there is no such facility for controlling the dust generated during stacking

Union Carbide trial exhibit UC-3184: M. A. Patel to P. P. Price and D. E. Raines on Dust Monitoring in the Institute P... Published by AsbestosClaims.Law
ACL Doc 18011 · Page 1 of 3 asbestosclaims.law/library/18011/1

and general handling of the material. We believe that a down draft ventilation system for controlling the dust generated during cleaning of the sawed blocks would be advantageous. It is recommended that the Industrial Hygiene group be consulted when considerations are given for installing such a system.

Please inform the results of the survey to employees who were monitored. If I can be of any assistance in this matter, please give me a call at extension 3750.

Very truly yours,

Manhar A. Patel

Manhar A. Patel

MAP/sc

Attachment

Union Carbide trial exhibit UC-3184: M. A. Patel to P. P. Price and D. E. Raines on Dust Monitoring in the Institute P… Published by AsbestosClaims.Law
ACL Doc 18011 · Page 2 of 3 asbestosclaims.law/library/18011/2

AIRBORNE NUISANCE DUST - INSULATION SHOP
GRAVIMETRIC DETERMINATIONS, mg/m3

Date	Type Sample	Sample Time	Air Conc. mg/m3	
KAYLO				
10/5/81	S. M. Barker	360	0.5	Band saw cutting block insulation
	W. L. Alford	364	0.4	Band saw cutting block insulation
	H. E. Witt	358	0.1	Cementing lagging blocks
	Source	358	2.0	Source sample on cementing table
	Area	360	0.4	4' above No. 1 band saw
10/7/81	Area	337	4.4	East wall 20 feet from forming table
	Area	336	1.7	15 feet south of No. 1 band saw
	Area	327	6.5	5 feet west of No. 1 band saw
	Area	326	7.3	5 feet west of No. 2 band saw
10/9/81	S. M. Barker	203	3.5	Boxing cut blocks at No. 1 band saw
	W. L. Alford	202	3.8	Cutting blocks at No. 1 band saw
	J. D. Hayes	206	1.5	Worked area of No. 2 band saw
	Area	200	2.3	4 feet above No. 1 band saw
	Area	204	1.5	8 feet from No. 2 band saw at west wall
Goodtemp				
10/13/81	W. L. Alford	360	7.1	Removing blocks and sawing No. 1 band saw
	J. C. Hubbard,Jr.	360	2.9	Transfer of sawed blocks to No. 2 saw
	S. M. Barker	360	3.9	Sawing lagging blocks at No. 2 saw
	H. E. Witt	360	4.0	Stacking sawed blocks
	Area	360	1.6	4 feet above No. 1 band saw
	Area	360	5.0	5 feet from No. 2 band saw west wall
10/15/81	W. L. Alford	195	3.0	Removing blocks and sawing
	S. M. Barker	195	5.0	Transfer of sawed blocks
	H. E. Witt	195	6.3	Sawing lagging blocks
	J. C. Hubbard,Jr.	195	4.2	Stacking sawed blocks
	Area	195	15.4	4 feet above No. 1 band saw
10/16/81	Area	300	4.3	4 feet above No. 1 band saw
	Area	300	3.1	5 feet west of No. 2 saw along west wall
	Area	300	0.6	4 feet above tar pot at east wall
	Area	300	1.5	Center aisle at toilet room entrance
	Area	300	0.8	Face level at center aisle east wall

HHF:mc
10/20/81

Union Carbide trial exhibit UC-3184: M. A. Patel to P. P. Price and D. E. Raines on Dust Monitoring in the Institute P... Published by AsbestosClaims.Law
ACL Doc 18011 · Page 3 of 3 asbestosclaims.law/library/18011/3