6(g)

Copy To: E.C. Shipley
E.J. Tarkany

It looks like Mr. Smith should accept Patel's offer for assistance in installing a ventilation fan in the paint shed. It could eliminate both the health concern and the fire-explosion concern. What do you think

Randy Mahle

PLAINTIFF'S EXHIBIT
UC-3255

UCC 016798

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INTERNAL
CORRESPONDENCE

BUSINESS
CONFIDENTIAL

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

J. C. Smith
511-2009
(512)

July 16, 1982

511 Industrial Hygiene/
Environmental Protection

B. H. Avashia, M.D.
C. W. Carman
H. H. Frazier
M. L. Mills
L. R. Noble
D. R. Paugh
R. E. Peele
S. N. Robinson
F. Williams

Dust and MEK Monitoring
Sandblast Shed, 511 Construction
Institute Plant

Dear Mr. Smith:

Several area and personal samples were collected for measuring dust (Black Beauty) levels in the Sandblast Shed area during the months of May and June 1982, by the 512 Industrial Hygiene group. Two area samples for methyl ethyl ketone (MEK) were also collected in the Paint Preparation Shed.

The results of the survey are shown in the attachment. The dust survey was conducted using the open-face filter cassette. This technique measures the total amount of dust (respirable as well as non-respirable) in the air. The health standard for total dust is 10 mg/m^3 averaged over an eight-hour period, assigned by the American Conference of Governmental Industrial Hygienists (ACGIH). This level of exposure was not exceeded for the two employees working in the blasting operation or in the area 40 to 100 feet away from the blasting operation. The personal sample was collected inside the supplied air respirator hood.

Two area samples collected for MEK showed levels well below the health standard of 200 ppm. It is probable that during short periods of time, while preparing paints, the air levels may exceed the short-term exposure limit (STEL) of 300 ppm. To control such conditions it is recommended that an exhauster of sufficient ventilation capability be provided in the Paint Preparation Shed. We will

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be glad to assist you in selecting the proper size fan, if you so desire.

If I can be of further assistance in this matter, please give me a call on extension 3750.

Very truly yours,

Manhar A. Patel

Manhar A. Patel

MAP/sc

Attachment

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ATTACHMENT

DUST AND MEK MONITORING 511 SANDBLAST FACILITY INSTITUTE PLANT

DATE	CONTAMINANT	NAME/TYPE SAMPLE	AIR CONC.	SAMPLE TIME (MINS)	COMMENTS
05/28/82*	Dust	Area	1.8 mg/m^3	333	100' NW of south Blasting Shed
	Dust	Area	3.2 mg/m^3	331	60' North of blasting area
	Dust	Area	0.9 mg/m^3	329	Goff Canal north of area
	Dust	Area	0.5 mg/m^3	326	SW corner of Blasting Shed
06/10/82	Dust	J.E. Pickens	0.26 mg/m^3	101	Continuous blasting
	Dust	C.L. Gandee	2.55 mg/m^3	100	Continuous blasting
	Dust	Area	4.05 mg/m^3	98	Between two hopper areas
	Dust	Area	1.98 mg/m^3	96	80' NE of Blasting Shed
06/11/82	Dust	Area	4.4 mg/m^3	378	40' NE of Blasting Shed
	Dust	Area	0.3 mg/m^3	375	60' North of Blasting Shed
	Dust	Area	1.2 mg/m^3	372	Between two hopper areas
06/11/82	MEK	Area	39.3 mg/m^3	380	Face level south wall Paint Shed
	MEK	Area	37.3 mg/m^3	380	Face level north wall Paint Shed

*No blasting scheduled during afternoon.

UCC 016801

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