UNION CARBIDE

Mr. C. Frankenberger
Linde Division
Speedway Factory
4801 West 16th Street
Indianapolis, Indiana 46224

August 22, 1975

Medical Department

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Mr. P. J. Burtis
Mr. S. E. Hine
Mr. H. L. Phillips
Mr. L. J. Suelter/Mr. R. P. Wooldridge
Mr. R. M. Neary/Mr. B. Higdon
Dr. J. J. Welsh/Dr. K. S. Lane

Dear Mr. Frankenberger:

A special industrial hygiene survey was made on August 13, 1975 to follow up on the asbestos in air problems associated with the acetylene cylinder manufacturing operations. The series of samples obtained during the second quarter indicated an increase in the number of air-borne fibers at certain locations. It has been determined that part of the reason for this was the switch to loosely bagged material because of supply difficulties in obtaining the usual compacted asbestos.

Of all the recently collected samples and those obtained on this visit the only ones above the limit are those collected at the shredder location.

The results were as follows:

Location	Asbestos Fibers per ml>5 microns	Remarks
Machine shop-cutting cylinder open	1	8/6 personnel sampler

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PLAINTIFF'S EXHIBIT

UC-4279

UCC 009380

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Location	Asbestos Fibers per ml > 5 microns	Remarks
Maintainence shop-cutting filler samples	2	8/6 personnel sampler
Lance out room - general	< 1	7/25 normal operations
Shredder room-personnel sampler	9	7/25 Blower operating*
Shredder room-general area	10	8/1 visible dust
Top of asbestos mix tank-general	< 1	7/29 Blower in operation
Valve well drilling-personnel sampler	< 1	8/8 2 skids of B's
Top clearance inspection station	< 1	8/12 personnel sampler
General area Dept. 511	1	8/13, 9 a.m. usual operations
General area Dept. 511	< 1	8/13, 10 a.m. usual activity
Top of Power Cabinet-general air	< 1	8/13, 9:40 a.m.
Asbestos Storage area-warehouse	< 1	8/13 no activity
Shredder room-general	1	8/13 towards end of clean-up
Shredder room-general	6	8/13 while dumping bags
Shredder room - personnel sampler	9	8/13 as above*

*It was noted on both sampling periods in the shredder room that the operator climbed inside the shredder twice in order to dislodge stuck parts of the bales of asbestos. He was wearing a respirator while performing this

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job. It is felt however that this situation could be improved so that it does not require a person to enter the shredder.

Better control in the shredder room is necessary since the levels found either approach or are at the ceiling limit of 10 fibers per ml.

Other areas in the plant were investigated as time permitted and various conditions discussed with Mr. Hine and others.

Certain welding and brazing operations were observed and it was suggested that personnel type samples be obtained where cadmium and silver are major constituents. These samples may be forwarded to me so that analytical results may be obtained. Similar type samples should be obtained where lead is a major constituent so that exposure evaluation may be made. Results of these samples would then become part of an exposure record for the various operations throughout the plant.

If you have any questions, please let me know.

Very truly yours,

Leo J. LaFrance
Industrial Hygienist

LJLilm

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UC 149-2

UNION CARBIDE

INTERNAL CORRESPONDENCE

LINDE DIVISION • SPEEDWAY FACTORY

4501 WEST 16th STREET P. O. BOX 23501
INDIANAPOLIS, INDIANA

To (Name) Mr. L. J. LaFrance
Division Linde Division
Location Medical Dept., 4th Floor
New York, New York 10017

Date August 12, 1975

Originating Dept. Quality Assurance

Answering letter date

Copy to Mr. S. E. Hine
Mr. L. G Sneltzer

Subject Air Samples, 3rd Quarter

Eleven (11) air samples were taken for the third quarter of 1975 at various locations throughout the Acetylene Cylinder Operations.

The attached summary outlines the locations and other pertinent data. If you have any questions, please call.

R. P. Woolridge

RPW:nl

attachment

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UCC 009383

UCC 009384

SAMPLE LOCATION	DATE	TIME	INTERVAL TIME	FILTER\MIN. FLOW RATE	CONDITIONS
1. CONTROL OUTSIDE OPEN WINDOW	8-13-75	9:10AM	45 MIN.	1	CLOSED ON OPERATOR
2. CONTROL OUTSIDE OPEN WINDOW	8-13-75	10:00AM	15 MIN.	1	CLOSED ON OPERATOR
3. CONTROL OUTSIDE OPEN WINDOW	8-13-75	10:30AM	15 MIN.	1	CLOSED ON OPERATOR
4. CONTROL OUTSIDE OPEN WINDOW	8-13-75	11:00AM	15 MIN.	1	CLOSED ON OPERATOR
5. CONTROL OUTSIDE OPEN WINDOW	8-13-75	11:30AM	15 MIN.	1	CLOSED ON OPERATOR
6. CONTROL OUTSIDE OPEN WINDOW	8-13-75	12:00PM	15 MIN.	1	CLOSED ON OPERATOR
7. CONTROL OUTSIDE OPEN WINDOW	8-13-75	12:30PM	15 MIN.	1	CLOSED ON OPERATOR
8. TOP OF CEMENT MIX TANK	8-13-75	1:30PM	15 MIN.	1	CLOSED ON OPERATOR
9. TOP OF ASBESTOS MIX TANK	8-13-75	2:00PM	15 MIN.	1	CLOSED ON OPERATOR
10. TOP OF CEMENT MIX TANK	8-13-75	2:30PM	15 MIN.	1	CLOSED ON OPERATOR
11. ASBESTOS STORAGE AREA - MAIN WAREHOUSE	8-13-75	10:30AM	30 MIN.	1	NO ACTIVITY ON

NOTE: ALL SAMPLES TAKEN WITH GILIAN AIR SAMPLING PUMP

DATE: 8-13-75

WORK: CEMENTING OPERATIONS

PERFORMED BY: T.H. LAFRANCE

FORM DATE: 10/9/74

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