



Mr. C. Frankenger
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. Frankenger:

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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Location	Asbestos Fibers per ml > 5 microns	Remarks
Maintenance 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

LJL:lm

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INTERNAL CORRESPONDENCE

LINDE DIVISION

• SPEEDWAY FACTORY

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INDIANAPOLIS, INDIANA 46224

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

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

Answering letter date
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. Wooldridge
R. P. Wooldridge

RPW:nl

attachment

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MONTHLY AIR SAMPLES

 MONTH: 3RD QUARTER
 YEAR: 1975

SAMPLE LOCATION	DATE	TIME	TIME INTERVAL	FLOW RATE LITER/MIN.	CONDITIONS
MACHINE SHOP					
1. CUTTING CYLINDER OPEN	8-6-75	4:10 PM	25 MIN.	1	PLACED ON OPERATOR
MAINTENANCE SHOP					
2. CUTTING FILLER SAMPLES	8-6-75	4:40 PM	17 MIN.	1	PLACED ON OPERATOR
3. LANCE OUT ROOM	7-25-75	11:00 AM	15 MIN.	1	NORMAL OPERATIONS
4. ASBESTOS SHREDDER ROOM	7-25-75	11:30 AM	18 MIN.	1	BLOWER OPERATING PLACED ON OPERATOR 3 BALES 4M 28 ASBESTOS OPERATOR CLIMBED INSIDE SHREDDER TWICE
5. SHREDDER ROOM GENERAL AREA	8-1-75	9:30 AM	15 MIN.	1	4M 28 ASBESTOS DUSTY CONDITIONS
6. TOP OF ASBESTOS MIX TANK	7-29-75	1:30 PM	15 MIN.	1	BLOWER OPERATING 4M 28 ASBESTOS
7. VALVE WELL DRILLING OPERATION	8-8-75	2:00 PM	12 MIN.	1	PLACED ON OPERATOR 2 SKIDS OF B'S
8. TOP CLEARANCE INSPECTION STATION	8-12-75	3:45 PM	12 MIN.	1	PLACED ON OPERATOR UNDERCUTTING 2 SKIDS WS'S
9. GENERAL AREA - DEPT. 511	8-13-75	9:00 AM	30 MIN.	1	NORMAL OPERATIONS
GENERAL AIR					
10. TOP OF POWER CABINET	8-13-75	9:40 AM	40 MIN.	1	NORMAL OPERATIONS
11. ASBESTOS STORAGE AREA - WAREHOUSE	8-13-75	10:30 AM	35 MIN.	1	NO ACTIVITY
					L.H. POLLERT

8-13-75

FORM DATE: 10/4/74