



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

August 23, 1974

Medical Department

Mr. J. E. Bertrand  
Mr. K. Earl  
Mr. D. Jenkins  
Mr. R. M. Neary  
Mr. R. Oldford  
Mr. H. L. Phillips  
Mr. L. G. Suelter  
Dr. J. J. Welsh/Dr. K. S. Lane

Dear Mr. Frankenger:

A follow-up industrial hygiene survey to evaluate the changes made in the acetylene cylinder filling building was performed on August 6-7, 1974.

The results of the air samples for asbestos are shown on the attached table.

At the time of the first addition of asbestos to the mix tank it was noted that the exhaust blower for the shredder was inoperative. It was decided to take samples anyway. As can be seen the results are 2-3 times the ceiling limit value of 10 fibers greater than 5 microns per milliliter. Respiratory protective equipment was worn by the operator and myself. The time of this operation requires about 10 minutes.

A21695

Mr. C. Frankenger

-2-

August 23, 1974

Follow-up samples after the blower was repaired indicated concentrations at the limit value of 2 fibers.

This also points up that routine periodic checking of equipment of this nature should be performed. It is also questionable whether or not it is wise to perform these operations when such conditions exist.

The shredder itself could be improved so that the present methods of charging after breaking the bale outside the unit could be eliminated.

All other operations checked and the general area samples were below the limit of 5 fibers and the limit of 2 fibers which becomes effective July 1, 1976.

For the present it is suggested that these areas be checked on a monthly basis. If results continue to be below limits, then a six month interval would be sufficient.

It would also be desirable to sample when a cylinder is cut open in the machine shop. This operation has not been performed during one of my visits.

With regard to cylinder clean-out I would suggest mounting two or three sampling heads connected to a central vacuum source to determine levels in this building. I would not expect to find much if any since this is predominantly a wet system. However, the data should be collected for record purposes. This was discussed with Messrs. Phillips and Wooldridge.

A21696



Mr. C. Frankenger

-3-

August 23, 1974

The rest of the plant was inspected as time permitted and no other operations were noted where air sampling was felt necessary for evaluation.

Thanking you for your courtesy extended, I remain.

Very truly yours,

Leo J. LaFrance  
Industrial Hygienist

LJL:lk  
Attachment

A21697



**Asbestos in Air Concentrations**  
**Union Carbide Corporation**  
**Linde Division**  
**Speedway Factory**  
**Indianapolis, Indiana**  
**August 6-7, 1974**

| <b>Asbestos</b>                                                        |                                 |                                |
|------------------------------------------------------------------------|---------------------------------|--------------------------------|
| <b>Number of Fibers</b>                                                |                                 |                                |
| <b>Location</b>                                                        | <b>5 microns per milliliter</b> | <b>Remarks</b>                 |
| Acetylene Cylinder<br>Fill Building -<br>New Shredder room<br>operator | 30                              | Exhaust blower inoperative     |
| New Shredder general<br>area                                           | 20                              |                                |
| New Shredder room on<br>operator                                       | 2                               | Exhaust blower<br>in operation |
| New Shredder room<br>general area                                      | 1                               |                                |
| At top of mix tank                                                     | 0                               | While charging asbestos        |
| Plug drill (on operator)                                               | 1                               | usual operation                |
| Top clearance inspection<br>(on operator)                              | 1                               | usual operation                |
| Wire brush fill plugs<br>(on operator)                                 | 1                               | usual operation                |
| General area-walk around<br>depts.                                     | 1                               | usual operation                |
| General air-top of power<br>cabinet below old rest room                | 1                               |                                |

A21698