FORM OM-10000 REV. 1273

INTER OFFICE MEMO Olin

File - Environmental Hygiene Surveys

TO A. R. Winterhalter AT Covington, Ind. DATE January 6, 1976

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SUBJECT Environmental Hygiene Survey
Covington, Indiana

An environmental hygiene survey of the Olin Works Film Division Plant at Covington, Indiana was made on November 24 and 25, 1975. Your assistance was greatly appreciated.

Spot testing of noise, solvents, and ventilation in conjunction with a visual survey led to the following recommendations:

1.) The canopy hood where lead work is conducted should be altered to obtain a more efficient flow pattern at the point of the operations. At present, it is too high to be effective.

2.) The use of the polyvinylidene chloride material in coating preparation should be monitored by the charcoal tube method (similar to vinyl chloride procedure) to determine what amount, if any, of the vinyl dichloride monomer is present in the employee breathing zone, vendors information not withstanding.

Results and Discussion

1.) Noise

Noise was measured at the following locations with a General Radio Type 1565-B meter.

Coating:

A coater	96-99 dBA
B coater	93-94
D coater	91-93
Homogenizers	89-93
Desk	90-92
Shredders, at base	93-94
Slitting	84-87

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Ear protection was in use. Management is alert to the need for engineering in the noise areas with plans to be implemented in the near future.

2.) Carbon Disulfide

Analytical section tests were taken in my presence in the CBX room. These were of the liquid color matching type.

Location	Concentration
Cat walk	2 ppm
Second Level, front	1 ppm
Second Level, at belt drive	trace
First Level	trace

Detector Tube Test

#7 Caster	.7 ppm

The limit of exposure recommended in the Federal Occupational Safety and Health Standards 29CFR 1910.1000 (b)(1) Table Z-2 is 20 ppm as a time-weighted average.

3.) Hydrogen Sulfide

Detector Tube Test

#7 Caster	trace detected only

The limit of exposure recommended in the Federal Occupational Safety and Health Standards, 29CFR 1910.1000 (b)(2) Table Z-Z is 20 ppm as a ceiling concentration.

General Observations

There are no female employees in the areas where solvent concentrations could exceed safe exposure limits except when rolls are moved from the casting room to the holding storage. This limitation seems to be a reasonable one considering the solvents utilized in the process.

Past results even though not alarming do indicate some blood lead elevation of tank repair personnel. Visual observation

of the lead working area disclosed a potential over-exposure of employers while lead working since the local mechanical exhaust ventilation (canopy hood) is inadequate at the point of operation. This hood should be lowered or extended for efficiency or replaced by hooded flexible ducts.

This plant appeared neat and well managed with genuine concern for employee health. Results of their own wide spread sampling program have been placed in our file for reference.

If you have any questions, or if I can be of assistance, please call.

Adrien L. Gaudreau

A. L. Gaudreau

ALG:sln