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AIHC
SCIENTIFIC COMMITTEE
SEPTEMBER 30, 1987
AGENDA

1. Review of Minutes
2. Air Toxics/Vinyl Chloride
 - * Update of Meetings with EPA Staff
3. Meeting with NTP
4. IARC Developments
5. Dermal Carcinogenicity Workshop
6. Proposition 65
7. Research Needs Paper
8. ATSDR Update
9. IRIS
10. OSHA Cancer Policy
11. Projects: * Serial Allometric Factor Extrapolation
* Promotion
12. Subcommittee Reports
13. Toxicology Forum
14. 1988 Priorities, Budget
15. New Business

TIME: 9:00 a.m.

LOCATION: AIHC Offices
1330 Connecticut Avenue, N.W., Suite 300
Washington, D.C.

Environmental Hygiene & Survey

A. King

Carrollton, Ohio

August 24, 1977

H. J. Muranko

New Haven, Conn.

R. L. O'Connell, M.D.

L. A. Krause

Environmental Hygiene Survey

C. W. Brown

Carrollton, Ohio

H. L. Donaldson

June 16, 1977

J. Walters

Presented herewith are the results of the environmental hygiene survey conducted June 16, 1977 at the Carrollton PVC Pipe Operations. The following will confirm the discussions with Mr. Walters during the course of my survey.

1. Pipe Assembly Table - The exhaust ventilation slots around the table periphery are in need of cleaning to remove solidified residual plastic and glue. The table's air exhaust system must be periodically maintained (once/quarter) to control solvent fumes from the glue-weld compositions. Ventilation measurements made at the time of this survey were below minimum acceptable levels.
2. Salt Baths - The salt baths used for pipe band stretching should be adequately guarded to prevent a fall against the hot surfaces and signs indicating the presence of hot surfaces should be clearly posted.
3. PVC Monitoring - The air pump used for PVC sampling has been repaired, calibrated and returned to Mr. Walters. The unit should have the battery back replaced every two years.

PVC air sampling should be conducted on a quarterly basis for at least 18 months to establish a solid data base. Levels consistently below the action level (0.05 ppm) can permit semi-annual monitoring. All samples (certainly the majority) should be taken in the breathing zone of employees.

Sample analysis should continue to be coordinated through Mr. Gaudreau of this department.

4. Noise - Noise measurements made at the time of this survey are consistent with past survey results. The Grinding Room should continue to be a mandatory ear protection area. All other areas in the plant have acceptable noise exposure levels.

A. King

August 24, 1977

Environmental Hygiene Survey
Carrollton, Ohio, June 16, 1977

Location	dB-A	Allowable Exposure (hrs)	Actual Exposure (hr)	Remarks
Extruder area				
Presees	88-90	8	6.0	
Cut-off saws	88-96	6 at 92 dBA	1.0	
Grinding				
Small grinder	103			
Large grinder	100	2 at 100 dBA	6	Ear protection
Pulverizer	94			
Blending				
Control panel	89	8	6	
Weigh station	89			
Molding Department				
1 and 2 presses	84	8	8	
5 and 6 presses	87			

5. Housekeeping - The Blending Department had substantial accumulation of dust on the floor and surfaces. Weekly housekeeping activities (at the least) should be established to pick up fugitive PVC dust. Other areas of the operation were, except for the gluing tables, acceptable.

If there are any questions, or if I can be of assistance, please call.

Henry J. Muranko
~~Environmental Hygiene~~
Toxicology Department

HJM:mdg

INTER OFFICE MEMO



file Hsomer
FEB 19 1973 *RP*

TO L. A. KRAUSE
FROM S. CUPACH
SUBJECT VINYL CHLORIDE EXPOSURE SURVEY
ASSONET, MASSACHUSETTS PVC PLANT

AT STAMFORD
AT ASSONET

DATE FEBRUARY 14, 1973

COPY TO L. A. BAKER
M. R. GASQUE, M.D.
J. R. NICHOLSON

Enclosed is a report recently received from Employer's Insurance of Wausau.

This report concerns a VCM survey conducted by the Senior Environmental Health Engineer, Mr. W. J. Uber on August 28, 1972. I am sending this report to you as a beginning for the survey we are setting up at Assonet. It supplies some basic information we may be able to use as our beginning.

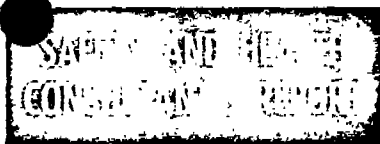
Steven Cupach
Plant Manager

SC/pt
Enclosure

*I have discussed
this with Mr. Gasque
2/20/73*

OLI 4859

S. Cupach.



Employers Insurance of Wausau

RECEIVED
FEB 9 1973
L. A. BAKER
HOME OFFICE, WAUSAU, WISCONSIN

FOR

Mr. Allan Baker, Manager
Administrative Services
Olin Corporation
238 South Main Street
Assonet, Massachusetts

RECEIVED
FEB 12 1973
S. CUPACH
February 5, 1973

CONCERNING

Assonet Plant
238 South Main Street - Assonet, Massachusetts

REPORTED BY

W. J. Uber, senior environmental health engineer; A. J. Dunn, safety consultant; and A. P. Garbarino, R.N., senior occupational health consultant; on August 28, 1972

PERSONS CONTACTED

Allan Baker, manager - administrative services
James Nicholson, safety supervisor
S. S. Markowitz, M.D.

REPORT SUMMARY

Environmental Health Engineering Service

"This survey was made at the request of Mr. Allan Baker, manager, administrative services, to assist in developing information for use in the plant program to control occupational acroosteolysis (AOL).

"Concentrations of vinyl chloride gas to which reactor building workers may be exposed during normal operations including reactor cleaning were measured and are shown in Table I.

"Measurements at a number of locations were made by a direct reading combustible gas indicator (JW Model SSP). However, the reactor cleaning operation was sampled by means of an activated charcoal tube worn at the collar by a worker during this 14-minute operation. The vinyl chloride concentration was subsequently determined by gas chromatography.

"Ventilation rates on the reactor exhaust ducts were also measured and are shown in Table II.

"In addition, the toxicology of the raw materials was reviewed as was literature on the process and on AOL.

OLI 4860

This confirmation report concerns only such conditions and practices as were observed and considered at the time of this call. It is not intended to indicate that any hazards are adequately controlled nor that the conditions meet the requirements of any applicable federal, state, or local law, regulation, or ordinance.

If you have any comments or questions concerning this report, write to G. B. Lemke, Vice-President, Safety & Health Services.

"The following comments and suggestions are based upon the results of this study:

1. The concentration of vinyl chloride gas to which the reactor cleaner was exposed in reactor E 5 was 50 parts per million (ppm), which is 10 percent of the concentration permitted by regulations of the Occupational Safety and Health Administration (OSHA), 25 percent of the current American Conference of Governmental Industrial Hygienists Threshold Limit Value (measurement number 3, Table I).
2. 'Spot' measurements at other locations shown in Table I do not represent job locations but do indicate unnecessary contributions of vinyl chloride to the work atmosphere.
3. Local exhaust ventilation should be applied to each reactor as it is filled to prevent displaced vinyl chloride gas being discharged from the hatch (measurement number 2, Table I).
4. Scrap barrels should be equipped with close fitting covers to minimize vinyl chloride gas emission from the scrap (measurement number 4, Table I).
5. Ventilation measurements shown in Table II varied from 315 cubic feet of air per minute (cfm) for reactor F 4 to 700 cfm for reactor F 2.

Ventilation capacities of the reactor exhaust ducts should be equalized so that a standard reactor ventilation time prior to entry for cleaning would result in the same exhaust ventilation effectiveness for each reactor.

6. The requirement for use of gloves by reactor cleaners should be continued, to minimize hand contact with scrap being removed.
7. The periodic examination of reactor cleaning personnel should be continued, including 'medical surveillance for symptoms of Raynaud's phenomenon and periodic hand X rays...' (Dinman BD, et al: Occupational Acroosteolysis: I. An Epidemiological Study. Arch Environ Health, 22: 61-73, 1971.)"

HO 105

OLI 4861

Table I

Vinyl Chloride Concentrations

<u>Measurement Number</u>	<u>Location</u>	<u>Concentration, Parts Per Million</u>	
		<u>Found</u>	<u>OSHA Permissible(1)</u>
1	In reactor E 5, 2 feet below hatch opening, reactor empty	1400(2)	500 C(3)
2	Reactor E 5, in open hatch, during filling (outflow)	300-1400(2)	500 C
3	Cleaning reactor E 1	50(4)	500 C
4	In barrel containing polymerized scrap	2000(2)	500 C
5	At freshly broken face of a block of polymerized scrap	600(2)	500 C

(1) 29 CFR 1910.93, Table G-1.

(2) Concentration measured by combustible gas survey meter.

(3) "C" means ceiling value. The current American Conference of Governmental Industrial Hygienists Threshold Limit Value is 200 ppm, eight-hour time weighed average daily exposure.

(4) Personal sample, 14 minutes duration.

Table II

Exhaust Duct Ventilation Rates

<u>Duct Location</u>	<u>Duct Velocity, Feet Per Minute</u>	
	<u>Measured</u>	<u>Usual(1)</u>
Reactor F 2	2000	2000
Reactor E 3	1100	2000
Reactor F 4	900	2000
Reactor F 3	1000	2000
Reactor E 1	1400	2000
Reactor H 4	1100	2000
Reactor H 5	1600	2000

(1) ANSI Z9.2-1971, "Fundamentals Governing The Design and Operation of Local Exhaust Systems," page 17.

1975

INTER OFFICE MEMO



TO DR. R. HENDERSON

AT NEW HAVEN

DATE MARCH 2, 1973

FROM JEAN SHEA, R.N.

AT ASSONET FACILITY COPY TO

SUBJECT EMPLOYEES UNDER UTILITY MAN STATUS

There are twenty-four (24) employees working as utility men. The following is a list of these men and the date that they started working in this capacity:

REDACTED	7/26/72	7/31/72
	6/13/72	10/5/72
	1/8/73	12/7/72
	1/16/73	1/29/72
	7/26/72	7/20/72
	2/11/73	12/23/72
	7/23/72	2/18/73
REDACTED	7/23/72	10/5/72
	7/23/72	2/9/73
	9/22/72	
Utility Man	5/2/70	Utility Man 5/8/70
Helper	10/1/70	Helper 10/22/70
Utility Man	3/15/71	REDACTED Utility Man 3/15/71
Operator	7/24/72	Utility Man 7/6/70
Utility Man	1/23/73	Lead Operator 12/18/70
		Utility Man 4/12/71
	REDACTED	

Following is a work history of The reports of all his X-Ray findings are negative for Acroosteolysis. The total amount of time that he has worked as a Utility Man since date of hire is approximately 2½ years. He was employed here prior to the time Olin purchased the plant in September of 1968.

REDACTED

Date of Hire	-	Helper	4/27/68
		Utility Man	4/5/69
		Operator	6/8/70
		Utility Man	10/1/70
		Operator	4/12/70
		Utility Man	5/17/71
		Operator	4/10/72 to present time

If I can be of further assistance, please do not hesitate to contact me.

Leon Sheen

Jean Shea, R.N.

OLI 4864

JS/pt