



INTEROFFICE
MEMORANDUM

Date 28 January 1975

Subject VCM - Monitorings

To G. J. Mantell

Plastics - R & D

(Location, Organization, or Department)

From C. H. Worman

Plastics - R & D

(Location, Organization, or Department)

cc: A. R. Adams
J. Novak
H. W. Smith

From the attached list of 8 hour samplings taken at Trexlertown our operations appear clean. No areas are seen to fall into the regulated category. A third series of tubes has been taken but have not yet been analyzed. We plan to continue sampling periodically to provide a sufficient data log for our people and laboratories.

With the placement of the VCM storage outside of our building we will be in an even better position to avoid problems with OSHA compliance.

A handwritten signature in cursive script, appearing to read 'Charles Worman', written over a horizontal line.

CHW:mf
Attachment

(320)

AP00021145

November 1974 Monthly Report (C. H. Worman)

1. The results of the first series of personnel sampling were received from Dr. Zubyk. The actual weight of VCM on the charcoal adsorbent is shown in the attached letter from J. H. Terrell as Table I. Calculating 8 hour TWA values gives the following results:

	8 Hour TWA - PPM
a. Lab 151 area sample 10/29/74	.003
b. Raymond Walters personnel sample 10/30/74	.046
c. Lab 151 area samples 10/31/74	.017
d. Raymond Walters personnel sample 11/1/74	.007
e. Lab 190 area sample 11/4/74	.143
f. Roland Grandin personnel sample 11/5/74	.225
g. Stephen Stocker personnel sample 11/6/74	.297

These values were obtained under normal operating conditions.

Seventeen additional tubes are at Linwood for analysis. These cover the remaining personnel and areas possibly exposed to VCM. All areas and personnel were sampled at least twice and at more than 5-day intervals to comply with OSHA. No problem areas were seen in the initial batch of results.

2. Two series of experiments were conducted to determine solid vapor equilibrium of VCM in PVC at 23°C and 76°C under varying levels of moisture and VCM content.

Weight Solids	46.9%	53.0%	55.2%	99.9%
23°				
Vapor-VCM ppm	94,940	17,776	10,100	25.8
Solid-VCM ppm	19,006	5,466	2,691	40.2
Hsv - dy cm/mole	3.12×10^8	2.03×10^8	2.35×10^8	4.0×10^7
76°				
Vapor VCM ppm	121,200	96,900	52,520	26.3
Solid VCM ppm	4,323	1,767	674	36.5
Hsv dy cm/mole	1.76×10^9	3.46×10^9	6.91×10^9	4.5×10^8

122
B. Mowk



PUT IT IN WRITING

Date 7 March 1975To See DistributionSubject 8 HR. TWA PERSONNEL SAMPLESFrom M. H. Stermon - Calvert CityFROM EMULSION PLANT.

☐ Take Action ☐ For Your Approval ☒ For Your Info ☐ Discuss With Me
☐ For Your Comments ☐ As Requested ☐ File ☐ Note & Return

*Copy to file
AKM
JN
AS
FS
CE
Caul
Mann*

Eight hour samples were taken on Emulsion Plant personnel on the 3rd shift on 4 March 1975, and the 1st shift on 5 March 1975. All values were below 0.5 ppm with the highest being 0.19 ppm. A-728 was not being produced when these samples were taken. The results are listed below:

3RD SHIFT 1600-2400 4 March 1975

Name	Area	ppm VC1
Brewer	Board #3	0.12
Potts	Rotoplane	0.19
VanVactor	Board #2	<0.1
Sellers	Shotgun	0.11
Gray	Warehouse	0.12

1ST SHIFT 000-0800 5 March 1975

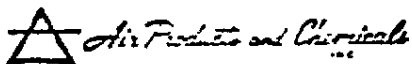
Malley	Board #3	<0.1
Bennett	Warehouse	<0.1
Ladd	Atmos. Operator	<0.1
Hobby	Shotgun	<0.1
Mitchell	Rotoplane	0.16

M. H. Stermon
M. H. STERMON

MHS:dm

cc: J. T. Barr - V.F.
H. M. Konrad
J. D. Kramer
C. G. MacDonald
E. J. Steck
H. L. Watson - V.F.

AP00021148



PUT IT IN WRITING

Date 10 March 1975

To See Below

1975

Subject PERSONNEL MONITORING IN

From M. H. Stermon - Calvert City

EMULSION PLANT

() Take Action () For Your Approval (x) For Your Info () Discuss With Me
() For Your Comments () As Requested () File () Note & Return

Listed below are results of 8 hr. TWA samples taken in the Emulsion plant during the manufacture of A-728. The samples were taken on the 2nd shift on 6 March 1975.

AREA	NAME	PPM VCI
Warehouse	Goins	0.16
Shotgun	Hardin	0.10
All Areas	Konrad	0.11
Rotoplane	Driver	0.14
Board	Kinsey	0.15


M. H. STERMON

MHS:dm

cc: J. T. Barr - V.F.
H. M. Konrad
J. D. Kramer
C. G. MacDonald
E. J. Steck
H. L. Watson - V.F.

AP00021149