



INTER-OFFICE CORRESPONDENCE

To: Z. G. Bell

Date: June 15, 1978

From: P. J. Snyder

Location: 10 West

Subject: Lake Charles VDCM
Exposure Monitoring
Program

A recent review of Lake Charles Vinylidene Chloride personnel monitoring data collected and on file since July 1, 1976, is attached for your information.

To date, in excess of 280 exposure measurements have been made on approximately 24 individual job categories. Based on information available to me, this represents approximately 100 employees.

The information being developed by Lake Charles continues to highlight a few specific job categories as potential problem areas. These occupational groups are:

1. EDC Operator

7 of 21 TWA samples exceed 1.0 ppm (33%)
3 of 21 exceed 2.5 ppm (14%)

2. MC Operator

14 of 23 TWA samples exceed 1.0 ppm (61%)
8 of 23 exceed 2.5 ppm (35%)

3. MC Aux. Operator

22 of 25 TWA samples exceed 1.0 ppm (88%)
19 of 25 exceed 2.5 ppm (76%)

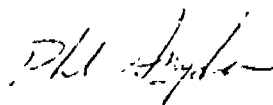
Other job categories with potential exposure in excess of 1.0 ppm (TWA) include:

4. MC Lead Operator
5. P/T Still Operator
6. Loader
7. Loader Helper
8. Lab Analyst

A similar review made in March 1977 highlighted the same three job categories listed above (EDC, MC, and MC Aux. Operator) as having the greatest relative exposure potential. Additional exposure data continues to be collected to better ascertain VDCM exposure potential on other occupational groups including loaders. A minimal amount of data has been collected on affected contractor personnel.

I have discussed the anticipated NIOSH recommended standard of 0.1 ppm (TWA) with Lake Charles personnel (P. Trew and B. Brown). Their lab people will be looking at the analytical sensitivity of the method in use. Based on the exposure data available, PPG will encounter a significant problem in reducing exposure levels to the proposed level of 0.1 ppm (TWA). The use of respiratory protection will have to be expanded beyond that required for 2.5 ppm. The ultimate effectiveness of the P-746, P-871 engineering project in reducing employee exposures to below 1 ppm cannot be ascertained at this time.

As suggested in your memo of 6-5-78, I will be visiting Lake Charles in the near future to review the status of the VDC workpractice. If you have any additional questions on the above information, please let me know.


P. J. Snyder

tea

Attachments

cc: P. S. Trew
F. C. Dehn



LK. CHAR.
VDCM

INTER-OFFICE CORRESPONDENCE

Date: June 5, 1978

From: Z. G. Bell, Jr.

Location: 10 West

Subject: Correspondence Requiring
Immediate Attention

To: P. J. Snyder

I would appreciate it if you would go through my incoming mail and tend to those items which have a deadline before I get back to the office. We may hear more on VDCM. You will be able to contact me on any emergency situations.

Please check into the new drumming operation at Lake Charles (telephone them). We want to be sure that they take more air samples for VDCM to determine potential exposures. I recall that cartridge respirators (Comfo) tested at Barberton for VDCM breakthrough did not give much protection, and when these were reused, there was a significant stripping action of VDCM from the charcoal. Have L. Kuryla recheck these cartridges for an initial breakthrough of 0.1 ppm.

What is the status of the VDCM workpractices implementation at Lake Charles? I would suggest you visit Lake Charles soon to check the VDCM operation.

Zeb G. Bell, Jr.
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/zak

cc: F. C. Dehn

I. C. Klimas -- I understand Natrium stopped drumming VDCM, is that correct?

H. C. Twiehaus

SL 073619

VINYLDENE CHLORIDE MONITORING DATA

Department: EDC-MC

<u>Job Category</u>	<u>No. Measurements</u>			<u>No. TWA Meas. > 2.5 ppm</u>	<u>Maximum Reading</u>
	<u>8 Hr. TWA</u>	<u>INVSTG.</u>	<u>15 Min. STEL</u>		
EDC Operator*	21	-	3	3	9.7 TWA
MC Operator*	24	1	5	8	45.5 TWA
MC Aux. Operator*	25	3	10	19	18.5 TWA
MC Lead Operator*	7	-	3	1	9.7 TWA

Department: EC-VCM-HCL

Lead Operator	1	-	--	0	.11 TWA
EC-HCL Operator	15	3	--	0	.42 INVESTG.
Furnace Operator	21	1	--	0	.36 TWA
Process Operator	23	1	--	0	.33 TWA

Department: OHC-TETRA-W.T.U.

OHC Aux. Operator	8	-	--	0	.34 TWA
OHC Operator	7	-	--	0	.03 TWA
Machinist	--	1	--	0	ND

Department: Per/Tri

P/T Lead Operator	3	1	--	0	.27 TWA
P/T Rx. Operator	8	2	--	0	.90 INVESTG.
P/T Still Operator*	10	-	--	1	3.7 TWA
P/T Aux. Operator	14	8	--	1	2.6 INVESTG.
Pipefitter	2	-	--	0	.95 TWA
Shift Repair	--	1	--	0	.11 INVESTG.
Welder	--	1	--	0	.10 INVESTG.
General Worker	--	3	--	1	161. INVESTG.

Department: Shipping

Loader*	11	3	2	1	7.0 TWA
Loader Helper*	10	2	2	3	24.9 TWA

Department: Technical/Lab

Lab Assoc.	1	-	1	0	ND
Lab Sr. Analyst	2	-	--	0	.05 TWA
Lab Analyst*	7	-	--	0	1.5 TWA

* Job Categories with exposure potential > 1.0 ppm TWA.



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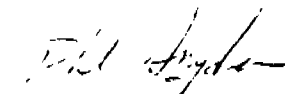
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