

Memorandum

ESCAMBA PLANT

**AIR
PRODUCTS**

To: R. L. Duggan

Date: 26 October 1987

From: M. L. Coleman

Copies: J. W. Kadlec
D. E. Hoffman
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R. E. Gilbert
M. W. FerrisRe: VCM Personnel Monitoring
for QA Laboratory Personnel

Routine personnel monitoring of QA Laboratory personnel has been done for many years. Until October 1985, samples of liquid vinyl chloride from railcar shipments were routinely analyzed in the QA Laboratory and did represent a VCM exposure risk to lab technicians. This analysis has been discontinued and the highest concentration of VCM in any sample sent to the QA Lab is about 50 ppm VCM in slurry samples. This does not constitute any risk of exposure above the TWA action limit of 0.5 ppm for 8 hours. The attached data bears this point out. Sixty eight data points from QA Laboratory technician personnel monitoring are statistically plotted on the attachment in sub-groups of four. They represent data from March 1985 to present. They show that the average exposure is .009 ppm for an 8-hour period. With an upper control limit of 0.0376 ppm, a process capacity of 5.59 results.

The OSHA standard on vinyl chloride 1910.1017 states in part (d) (2)(iii) that monitoring may be discontinued when two consecutive monitorings made not less than 5 days apart show exposures below the action level. I believe discontinuation of the QA Laboratory VCM monitoring is warranted due to the very low levels that have been measured in the last two years.



M. L. Coleman

MLC:fls

Attachment

RECEIVED

OCT 29 1987

M. J. BONIN

AP00026645

[illegible]

	Specification: 0.5 mm
$\bar{X} = .0090$	$u_{CLX} = .0376$
$\bar{R} = .0280$	$u_{CLR} = .0720$
	$L_{CLX} = 0$
	$L_{CLR} = 0$
	$C_p = 5.59$

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