



TO Distribution DATE April 22, 1974
FROM R. P. Lynch SUBJECT VCM Tank Car Safety Meeting

A review of the rulings and company reactions to these rulings was made in Philadelphia at the VCM tank car safety meeting. I was most impressed with the change in attitudes of most of the VC Poly people. They are doing most of the things that were impossible in February (by their words).

The most important item was the mouse failure. A table of results shows this:

	Mortality (M/F)		
	<u>Mice</u>	<u>Rates</u>	<u>Hamsters</u>
Control Group	15/5	4/4	13/22
50 ppm VC*	31/9	10/8	20/20
200 ppm VC	7/13	6/9	22/29
2500 ppm VC	8/13	5/7	27/27

*The VC was administered for 7 hours/day for 5 days/week. The rodents were not fed anything and 100 of each sex were used.

	Results of Autopsies			
	<u>Tumors</u>	<u>Lung</u>	<u>Angio</u>	<u>Skin</u>
Control	-	-	-	-
50 ppm	4	2	2	2
200 ppm	6	3	4	2
2500 ppm	19	17	17	3

As may be readily seen these results will lead to some severe restrictions on VC. The existing temporary standard will probably not stand. It is hoped that 10 ppm will be tried. The mice test is equivalent to approximately 20 to 25 years for a human when the first angios were found. Moltoni is also finding tumors at low levels but his work is not released yet. (Most of the mortalities are from eating one another because of hunger.) BFG now has approximately ten cases. Only two or three died of angio but the others are reasonably real. Most of them had slides of biopsies that were checked for angio. Some of the deaths are back to 1969.

Another important item was the new 10 minute test. This has been very confusing. OSHA and NIOSH have both given and are using different times 1 - 3 hours. Basically they do not care about