

Mr. R. E. Garber

R. W. Landrie

May 22, 1974

SPI Meeting at Saddle Brook,
New Jersey, on Air Emissions
of VCM and EPA

cc: J. Weber
M. Glenn
J. Wetzel

The purpose of this meeting was to exchange information with other VC and PVC producers on the control of VC emissions from the plants and to establish the EPA activity in the field.

In general, all concerned seem to have concluded that to decrease the problems of the users of PVC resins, the VC must be decreased at the PVC manufacturing plants.

Some approaches being looked at are:

1. Oxidation of VC.
2. Scavenging agents for VC.
3. Polymerization of VC.
4. Solvent absorption.
5. Carbon black adsorption.
6. Better stripping procedures.

The consensus was that for political reasons, the EPA would set emission standards that would yield at the plant perimeter limits a level of VC the same as that finally adopted by OSHA for the environment of the workers.

The State of Texas has decreed that VC emissions must be reduced from where they are now to 80% of present level by 1976 and by 90% by 1978.

Diamond in Texas (Deer Park) finds 1.5 to 2.0 ppm of VC one-half mile from plant. At 10-12 miles, the level is 30 ppb.

Hooker finds 1-3 ppm in a radius of 500 feet of plant and generally 10-12 ppm on leeward side.

Allied has found as much as 50 ppm at a distance of 300-400 feet from tank car loading area.

UCC finds 1-2 ppm at fence line of 100-200 feet.

With respect to monomer emissions from dryers following numbers were given:

Mr. R. E. Garber
Page Two
May 22, 1974

Allied 25-40 # VC/ds for 75 million pounds per year dryer (suspension)

Diamond 6 # VC/1000 # (suspension)
40 # VC/1000 # (emulsion)

Uniroyal 25 # VC/hr. for 15 million pounds per year dryer (emulsion)
5 # VC/hr. for 60 million pounds per year dryer (suspension)

Ethyl 6-10 # VC/1000 # (suspension)

GTR 4-7 # VC/1000 # (suspension)

Average plant yield all plants assumed to be 96%. Of these losses, 2% is monomer
2% is polymers.

Monomer losses	50% from dryer stack
	45% from leaks
	5% from polymers

Questionnaires re material balances will be forwarded for completion by June 4, 1974.

Next meeting - June 6, 1974, at Cleveland Airport.

Robert W. Laundrie

cjw

GENC 012314