

December 5, 1977

To: Mr. J. L. Worstall

cc: Mr. T. D. Epps
Mr. C. E. Fry
Mr. W. T. Gray
Mr. M. E. Griffith
Dr. R. W. Holland, Jr.
Mr. R. T. Kramer
Mr. D. C. Macauley
Mr. J. R. Soice
✓ Mr. R. N. Wheeler, Jr.
Mr. H. L. Wise

RECEIVED
DEC 7 1977
R. N. WHEELER, JR.

From: C. C. Armstead
H. C. Jackson
W. C. Young

Subject: Monthly Ambient Air Vinyl Chloride Monitoring

Historical subject monitoring data and sampling network plot are attached.

The majority of samples collected this month continue to border on the limit reliable detection, (<0.01 ppmv). We continue to detect trace quantities of VCM in the community, however, and the analyses are suspect for the following reasons:

- (1) The gas chromatographic analytical method is not truly specific for vinyl chloride and is subject due to potential interference from unknown compounds.
- (2) We occasionally note detection of VCM/positive response by the flame ionization detector in samples collected "up-wind" from plant operations.
- (3) We have observed consistent detection/response among samples collected near auto traffic, e.g., the Red Head Service Station south of the plant, on McCorkle Avenue.

We plan to verify suspected analytical interferences of either gasoline/auto emissions by collecting samples at greater distances from Plant 514 operations at a busy service station.

/nb

Attachment

UCC
034094