



Mr. J. H. Skahill
Battery Products Division
1205 Broadway
Red Oak, Iowa

September 13, 1974

Medical Department

Mr. R. S. Christie/Mr. T. J. Burke
Mr. E. Domokos
Mr. G. L. Harshaw
Mr. R. V. Maier
Mr. P. P. Preissle
Dr. J. J. Welsh/Dr. K. S. Lane

Dear Mr. Skahill:

On July 31, 1974, a second special survey for the determination of vinyl chloride monomer in workroom air was conducted at the Red Oak Plant. Air samples were collected both on the person of the PVC extrusion machine operator and of the general air directly above the extrusion head of the No. 2 PVC extrusion machine which was operating.

A new Model SP-1 Sipin personal sampling pump was used to collect 3 consecutive air samples on the extrusion machine operator. Each of the 3 air samples was obtained by pulling workroom air through one charcoal tube (MSA Part No. 459004). The sampling flow rate used was 57 milliliters per minute. The total workshift time covered by the 3 air samples was two hours and three minutes. No detectable vinyl chloride monomer was found in any of these 3 air samples.

The 3 general air samples, which were collected directly above the extrusion head of the No. 2 extrusion machine, were obtained at a flow rate of 30 milliliters per minute by using an MSA Model G personal sampling pump (MSA Part No. 456058) with an air-bleed valve located between the pump and

UCC
067783



Mr. J. H. Skahill

-2-

September 13, 1974

the charcoal tube. Each air sample was collected in one large charcoal tube which was prepared especially for this purpose by the Cleveland-Edgewater Laboratory. The entire equipment, as described, was calibrated prior to use with a soap-film flowmeter. The total workshift time covered by these 3 general air samples was 2 hours and 45 minutes. No detectable amount of vinyl chloride monomer was found in any of the 3 general air samples.

Other operating areas were observed, but no air samples were collected. No hazard was noted.

I greatly appreciate the courtesies extended to me during my visit. If I can be of further assistance, please let me know.

Very truly yours,

Eugene G. Brown
Industrial Hygienist

EGB/eg

UCC
067784



Vinyl Chloride Monomer
UNION CARBIDE CORPORATION
Battery Products Division
Red Oak, Iowa

July 31, 1974

<u>Location</u>	<u>Vinyl Chloride</u> <u>ppm*</u>	<u>Remarks</u>
On person of extrusion machine operator.	#1 --- N.D.** 1 #2 --- N.D. #3 --- N.D.	There were not any visible emissions in this warehouse area.
On light fixture, about 3 feet directly above extrusion head of No. 2 Extrusion Machine.	#A --- N.D. #B --- N.D. #C --- N.D.	There were no visibl emissions from this operation.

* The current OSHA standard for vinyl chloride monomer in workroom air is 50 parts per million (by volume). This is a ceiling value, not to be exceeded.

** The N.D. means "none detected", and for the volume sampled, this means less than 0.5 ppm/

UCC
067785