



Allied
Chemical

Corporate Headquarters
P.O. Box 1057R
Morristown, New Jersey 07960

W.F.R.

JUN 19 1975

June 18, 1975

D. R. Goodwin, Director
Emissions Standards & Engineering Division
U. S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Research Triangle Park, N.C. 27711

Dear Mr. Goodwin:

As noted in my letter to you dated May 20, 1975, Allied Chemical would complete its sampling of the oxychlor vent by June 15. The sampling has been effected. Sampling data and procedures utilized are identified in Table I and II attached. This submission completes your previous request for information.

Should there be any questions, please contact the undersigned.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'W. M. Reiter'.

W. M. Reiter
Corporate Assistant Director
Air and Water Pollution Control

WMR/nm

cc: J. Coerver, Technical Secretary
Louisiana Air Control Commission

bcc: P. B. Cornell
J. M. DeVoe
G. Kanelis
R. E. Gribben
J. M. Quinn
W. C. Reichenbach ✓

ASI 00005992

TABLE NO. 1

VINYL CHLORIDE CONTENT OF
OXYCHLOR VENT - BATON ROUGE PLANT

Allied Chemical Corporation

<u>Date</u>	<u>Plant Rate</u> <u>(% of capacity)</u>	<u>Vinyl Chloride</u> <u>Concentration</u>		<u>Projected</u> <u>Loss At 100%</u> <u>Op. Rate lb/day</u>
		<u>ppm</u>	<u>lb/day</u>	
5/2/75	70%	15	12.2	17.4
5/15/75	70%	5	4.2	6
5/28/75	70%	0.11	0.1	0.15
6/3/75	70%	210*	150	215
6/9/75	65%	26	18	28
6/10/75	65%	17	13	20
6/11/75	65%	26**	20	33
6/12/75	60%			
8:30 AM		31	39** 30	50
10:30 AM		37		
12:30 PM		34		
2:00 PM		55		

*Oxychlor Reactor Upset

**Stripper Down

Capacity 830,000 #VCM/day

TABLE NO. 2

OXYCHLOR STACK SAMPLING AND ANALYTICAL PROCEDURES

Baton Rouge Plant

Allied Chemical Corporation

A. Flow Measurement

Using a Lear-Siegler stack sampling apparatus, flow was measured by traversing the diameter of the pipe with a pitot tube. Flow was calculated using the pitot tube reading, pipe diameter, pitot co-efficient and gas density.

B. Samples

Samples of the oxychlor stack were taken from either the manometer lines on the pitot tube or from a sample line inside the oxychlor blockhouse. Both points are only a few feet apart on the same process vent.

A glass sample bomb was taped to minimize any change in the sample due to light. The bomb was evacuated and then connected to the sample point, purged with the sample gas and filled.

C. Analysis

Chromatograph:

All samples were run using Model 2200 Bendix chromatograph (flame ionization detector). Two columns used for testing as follows:

1. 1/8" stainless 8' length packed with Chromosorb 102 80/100 Mesh (EPA Col.)
2. 1/8" stainless 20' length packed with 10% FFAP stationary phase on 80/100 mesh acid washed DMCS Chromosorb W solid support used for cross reference

Operating Conditions:

1. Oven temperature = 100°C
2. Injection port temperature = 150°C

Operating Conditions (continued)

3. Detector temperature = 200° C
4. Helium flow = 60 cc/min.
5. Sample size: 50 μ l injected into G.C. sample was removed from glass bombs through rubber septums.

Notes:

1. Standards were made up in 100-150 ppm range
2. 100-150 ppm v/v range made by injecting vinyl product into glass bombs
3. Standard for .39% reading taken from 2 curves established on 102 column for 0-247. and 0-3.5%