# INDUSTRIAL CHEMICALS DIVISION

MEMORANDUM

BRN

January 20, 1976

To: Mr. W. S. Ferguson
Env. Svcs. - Corp.
SOL-1

Subject: VCM Monitoring - December 1975

During December, 1975, 20 employees were monitored in the vinyl chloride plant. All were sampled over a six hour period and none exceeded 0.5 ppm vinyl chloride.

The area monitors still indicate many excursions above 5 ppm for longer than 15 minutes. A continuing improvement program is under way.

W. C. Koch
Manager
Occupational Health &
Product Safety

WCK/sm

Attachment

cc: Mr. R. S. Christian

Allied Chemical

# MEMORANDUM

DATE: January 8, 1976

SUBJECT: Ambient Air & Personnel Monitoring - VCl Monomer

TO: Mr. J. M. DeVoe

RECEIVED
U.S.C.
JAN 14 1976
CORP. SAFETY
PROD. DIV.

Attached is subject report for the month of December, 1975.

P. B. Cornell, Manager
Baton Rouge North Works

KKT:rmcn
Enc.
cc: R. S. Christian
W. C. Koch
A. J. LaVine

ASI 000014058

## I. GENERAL

The purpose of the tests was to determine the TWA's for persons working in the VCM Complex. In addition, numbers and locations of excursions for the regulated area were taken by scanning the area monitoring GC charts.

## II. CONCLUSIONS

### A. Personnel Monitoring

1. Twenty employees were monitored in December.

| Range | No. of Employees | % |
|---|---|---|
| 0.0 to 0.5 ppm VCl | 20 | 100 |
| 0.51 to 1.0 ppm VCl | 0 | 0 |
| 1.0 - over ppm VCl | 0 | 0 |

2. All employees tested in December were below the 0.5 ppm action level. See attached data.

### B. VCM Area Monitoring

1. The VCl area monitors consist of two Bendix gas chromatographs having ten sample points throughout the VCl Complex.

2. The chromatograph charts were scanned for excursions of VCl:

   a) Over 5 ppm extending over a 15-minute period.
   b) Over 1 ppm extending over an 8-hour period.
   c) See data attached.

3. "A" monitor was inoperable for 16 days of December.

## PERSONNEL MONITORING

| Date | Name | Soc.Sec.No. | Hrs. | Total Volume | Remarks | TWA VCl | TWA EDC |
|---|---|---|---|---|---|---|---|
| 12/1 | L. E. Pence | 438-10-5179 | 6 | 18741 | Ev. Lab | .03 | .02 |
| 12/1 | A. B. Harris | 435-62-1935 | 6 | 20700 | VCM Lab | .04 | .01 |
| 12/1 | W. Bogan | 436-30-3834 | 6 | 17601 | VCM Lab | .10 | .02 |
| 12/1 | T. Nelson | 438-66-8656 | 6 | 17405 | VCM Lab | .04 | .01 |
| 12/2 | J. Coleman | 435-62-5874 | 6 | 13763 | VCM Lab | .03 | .02 |
| 12/2 | B. G. Ratcliff | 427-64-6354 | 6 | 12491 | VCM Maint. | .04 | .01 |
| 12/2 | W. Smith | 555-74-6057 | 6 | 14170 | VCM Maint. | .05 | .01 |
| 12/3 | M Chutz | 438-38-1628 | 6 | 17633 | Vinyl loader | .09 | .01 |
| 12/10 | E. Bethley | 437-64-8524 | 6 | 13588 | VCM Lab | .04 | .07 |
| 12/15 | J Hardy | 438-50-7875 | 6 | 17455 | VCM Lab | .02 | .01 |
| 12/15 | S: Rhodes | 433-52-9061 | 6 | 19985 | VCM Foreman | .09 | 1.71 |
| 12/15 | A. Aillet | 434-64-9458 | 6 | 19732 | VCM Oper. | .09 | 1.61 |
| 12/15 | H. Fisher | 435-58-7149 | 6 | 18138 | VCM Oper. | .10 | 1.67 |
| 12/15 | D. McLean | 461-58-2434 | 6 | 11402 | VCM Oper. | .09 | .29 |
| 12/18 | A. B. Miller | 433-60-2143 | 6 | 22714 | VCM Maint. | .11 | .15 |
| 12/18 | N. J. Millet | 436-52-4344 | 6 | 21105 | VCM Maint. | .04 | 1.28 |
| 12/18 | A. W. Frazer | 435-60-2832 | 6 | 22339 | VCM Maint. | .01 | .67 |
| 12/19 | W. Wilson | 435-60-4556 | 6 | 18163 | VCM Maint. | .13 | .57 |
| 12/19 | C. L. Cason | 435-62-0026 | 6 | 20990 | VCM Maint. | .05 | .03 |
| 12/19 | F. Morales | 437-48-4236 | 6 | 20121 | VCM Maint. | .03 | .01 |

| A. | Monitor | No. of Excursions over 5 ppm over 15 min. | No. of Continuous Excursions over 1 ppm over 8 hours |
|---|---|---|---|
| 1. | C-12 compressor building | 1 | 0 |
| 2. | Cell repair area | 0 | 0 |
| 3. | VCM Lab | 1 | 0 |
| 4. | C-12 loading station | 1 | 0 |
| 5. | No. 5 vinyl loading station | 1 | 0 |
| 6. | No. 4 vinyl loading station | 1 | 0 |
| 7. | No. 3 vinyl loading station | 1 | 0 |
| 8. | No. 2 vinyl loading station | 2 | 0 |
| 9. | No. 1 vinyl loading station | 1 | 0 |
| 10. | EDC sump | 1 | 0 |
| B. | Monitor | | |
| 1. | Vinyl scrubbers | 87 | 0 |
| 2. | Vinyl loading pumps | 30 | 0 |
| 3. | Vinyl bullets | 6 | 0 |
| 4. | HCl neutralization pond | 0 | 0 |
| 5. | VCM control room | 0 | 0 |
| 6. | VCM GC sample system | 16 | 0 |
| 7. | Vinyl column reboilers | 27 | 0 |
| 8. | Lights column reboilers | 0 | 0 |
| 9. | Furnaces | 17 | 0 |
| 10. | Vinyl reflux pumps | 3 | 0 |