Air Products

VCM - Dig [illegible]

Date APRIL 29, 1976

INTEROFFICE
MEMORANDUM

Subject SUMMARY OF PERSONAL MONITORING RESULTS

To DISTRIBUTION
(Location, Organization, or Department)

From J. T. BARR
VALLEY FORGE
(Location, Organization, or Department)

DISTRIBUTION:

T. L. Carey
D. H. Francke
R. E. Jones
J. D. Kramer
A. K. McMillan
J. C. Novak
E. A. Primeau
F. L. Riddle
G. F. Tillson
H. L. Watson

In order to have a data base for operation under the permanent OSHA standard, the 8-hour personal monitoring results for the prior six months at the two PVC plants were summarized by category. The results are attached.

I find nothing terribly surprising about the results. The job categories expected to be higher than the rest were, such as cleaners and recovery men, although not as much as might have been predicted. Maintenance was lower than might have been expected. There still are more than desirable in the "greater than 5 ppm" group, a few of them quite high, and these occurred in all categories except "other" and "maintenance" at Escambia. This is an area that needs attention.

The Calvert results show somewhat higher overall exposures than at Escambia, having fewer in the "less than one," and more in the "1 to 5" ranges. This seems to be due to a higher sampling rate on two relatively low-exposure groups, supervisors and maintenance. The higher-exposed categories are not particularly different. These differences in sampling frequencies can be explained partially by the difference in job assignment methods at the two plants.

I hope that this analysis will be useful to you in your exposure abatement program. A similar analysis will be prepared for the months April-September.

J. T. BARR

/mjv
Attachment

(320)

SUMMARY OF 8-HOUR PERSONAL MONITORING RESULTS FOR THE PVC PLANTS

Oct. 1975 - March 1976

Category and Jobs Included	Exposures Reported, % <1 ppm	1-5 ppm	<5 ppm	Number in Category
Supervisors:				
Calvert: Supervisors, Foreman	73	23	4	22
Escambia: Supervisors, Foreman, Seniors	75	17	8	65
Reactor Operators:				
Calvert: 3rd Floor Operators	62	32	6	47
Escambia: Reactor, Solutions	84	11	5	45
Recovery:				
Calvert: 2nd Floor Operators	57	33	10	42
Escambia: Recovery	69	22	9	32
Reactor Cleaning:				
Calvert: Cleaners	54	35	11	26
Escambia: Utility	54	24	22	46
Maintenance:				
Calvert	65	28	7	46
Escambia	95	5	0	85
Other:				
Calvert: Area 5, Column Op. Utility 1st Floor, Labor, Etc.	86	10	4	51
Escambia: Finishing, Artisan, Etc.	74	26	0	50
Totals:				
Calvert	66	27	6	247
Escambia	78	16	6	323

Air Products

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MAR 5 1976

R. FLEMING, V. F.

INTEROFFICE MEMORANDUM

Date MARCH 4, 1976

Subject VINYL CHLORIDE CONCENTRATIONS IN THE PVC PLANTS

To ~~R. FLEMING~~

VALLEY FORGE
(Location, Organization, or Department)

From J. T. BARR

VALLEY FORGE
(Location, Organization, or Department)

cc: T. L. Carey
A. K. McMillan
E. A. Primeau
F. L. Riddle
H. L. Watson

At your request, I have prepared a tabulation of the average monthly area monitoring results and the 8-hour TWA personal monitoring results for the two PVC plants over the past few months. I used the period covered by the last two daily average charts prepared by Calvert. These are attached (note the change in scale on the second chart).

The personal monitoring monitoring results show good correspondence between the two plants. Area averages are reported as higher at Escambia, but at this low level the difference probably reflects more the positioning of the sample points than it does a difference in emissions. Most of these averages show a slight general trend downwards, and are very much in line with those reported by other companies at the recent Vinyl Chloride Safety Association meeting. Higher exposures in colder weather are reported by several plants.

Both plants continue to work for lower emissions, but there are no more major projects to be completed except for the monomer recovery revisions at Calvert and the plant expansion at Escambia. Both plants are concentrating on continuing training of operators and supervisors, enforcement of regulations, and on optimizing the equipment on hand.

J. T. BARR

/mjv

Attachments

(320)

AP00006318

Air Products

INTEROFFICE
MEMORANDUM

Date MARCH 4, 1976

Subject VINYL CHLORIDE CONCENTRATIONS IN THE PVC PLANTS

To R. FLEMING — VALLEY FORGE (Location, Organization, or Department)

From J. T. BARR — VALLEY FORGE (Location, Organization, or Department)

cc: T. L. Carey
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J. T. BARR

/mjv

Attachments

(320)

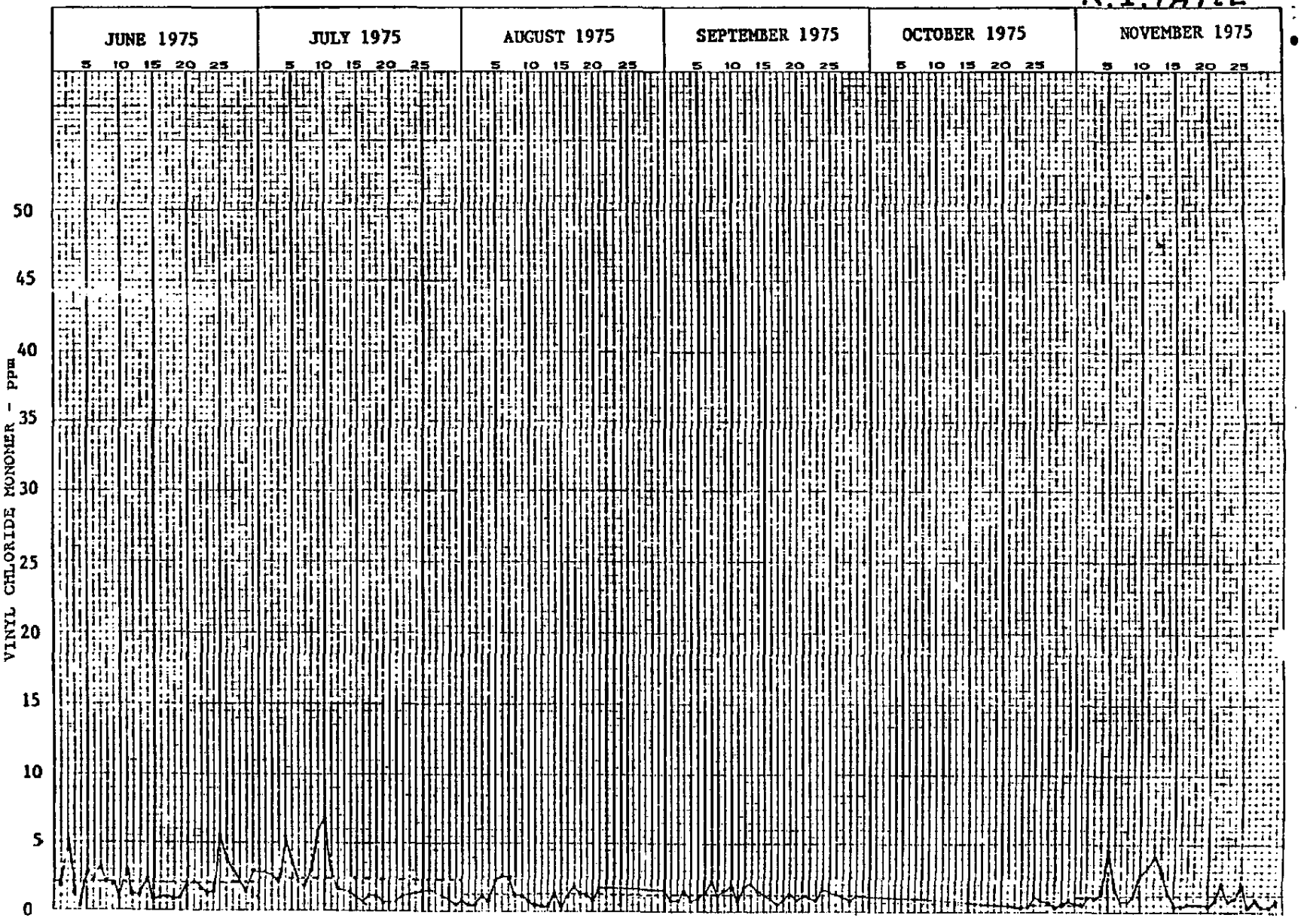
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EXHIBIT III

AVERAGE VC1 CONTENT OF REACTOR BUILDING

R. I. PATEL



AP00006320

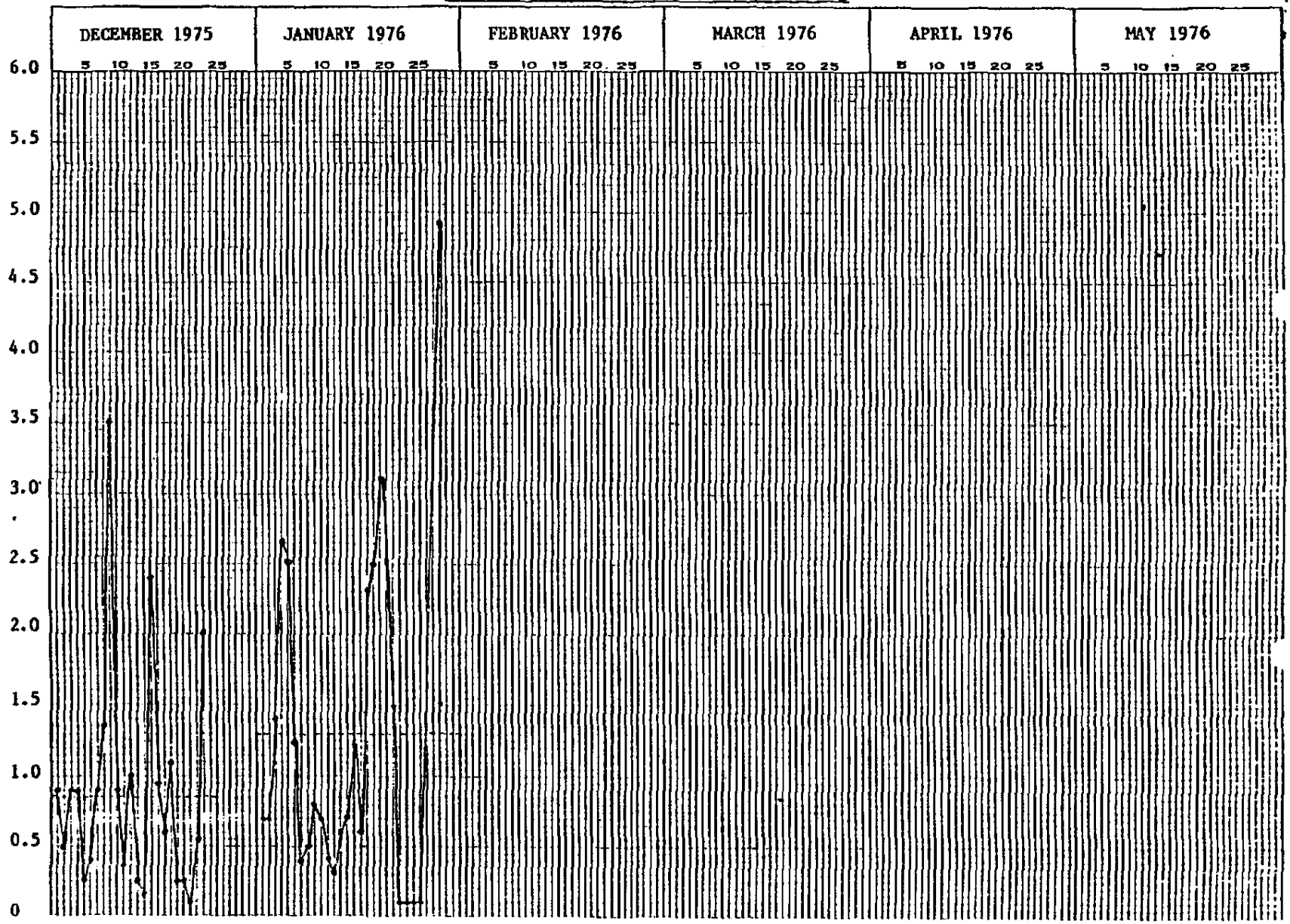
NO. 340-T9 DIETZGEN GRAPH PAPER
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EXHIBIT III

Average VCl Content of Reactor Building

R. PATEL



AP0006321

Month	Calvert City			Escambia		
	Area Avg.	Personal % Below 1 ppm	Personal % Above 1 ppm	Area Avg.	Personal % Below 1 ppm	Personal % Above 1 ppm
Jun 1975	2.1	83	5	4.4	90	4
Jul.	2.3	81	7	*	75	0
Aug.	1.5	70	4	2.5	90	2
Sep.	1.2	75	2	1.6	81	2
Oct.	0.7*	83	0	2.4	78	4
Nov.	1.2	65	7	2.4	92	0
Dec.	0.8	72	7	2.5	75	2
Jan. 1976	1.3*	66	5	2.1	48	10
Feb.	1.3	50	2	1.3	83	10
Average	1.4	72	4	2.4	79	4

*computer out of service a part of the period

AP00006322