



Air Products and Chemicals
INC.

ESCAMBIA PLANT
INTEROFFICE MEMORANDUM

To: J. T. Barr

Date: 17 November 1975

From: E. A. Primeau

Copies: ~~R. E. Jones~~
D. H. Francke

Re: OSHA Compliance

Attached are our replies to your memo dated 10 November 1975, in regard to compliance with the OSHA VCI standard.

1. Review of the Present Exposure Status

A. Personnel (for October, 1975)

VCI, ppm	8 Hour Samples		15 Minute Samples	
	Number	%	Number	%
0 - 0.5	23	54	19	41
0.5-1	10	24	12	26
1-3	7	16	11	25
3-5	-	-	1	2
5-10	1	2	2	4
10-15	1	2	-	-
>15	1	2	1	2
TOTAL	43		46	

Samples taken prior to October 1975 are given in previous monthly reports.

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R. E. JONES

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B. Area Monitoring - Average VCl, ppm (October 1975)

	Week Ending	10/11	10/18	10/25	10/31	Month
Zone 1 3rd Floor West End		1.9	5.2	3.9	2.8	3.1
Zone 2 3rd Floor East End		2.0	2.9	4.2	3.4	2.6
Zone 3 2nd Floor West		1.7	1.9	2.9	2.7	1.9
Zone 4 2nd Floor East		1.7	1.7	2.9	1.7	1.8
Zone 5 1st Floor West		1.7	2.4	4.2	5.5	2.6
Zone 6 1st Floor Center		1.7	4.6	4.9	4.3	3.2
Zone 7 1st Floor East		0.8	2.0	1.5	2.3	1.5

2. Projects Underway or Planned to Reduce Exposure

Projects recently completed to reduce exposure were:

- a. Installation of a wash water collection tank.
- b. Extension of reactor relief valve lines above the reactor building roof line.

Projects Underway or Being Planned

Expanded leak patrol to have patrols on a daily basis.

At present, we are averaging patrols three (3) days per week. Dale Francke is studying the manning required to provide seven (7) day per week patrols.

Continued training of operators to follow procedures which will reduce the possibilities of VCl emissions and permit rotation of operators throughout the plant. This is extremely important in view of the fact that the PVC plant presently has three operators and four trainees with less than two weeks experience.

In addition to the above items, the PVC plant has incorporated a number of engineering features in the current expansion project to reduce VCl exposure. This work includes:

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1. A central control system
2. Closed charge systems
3. Expanded chemical cleaning
4. Internal spray rinse valves
5. Charge pots
6. Closed circuit TV
7. New vent condenser system
8. Expanded recovery system including a gas holder

3. What will the plant do after 1 April 1976?

Most of the project included in the PVC expansion will not be completed until December, 1976. As a result, we feel the operators in the reactor building will have to work in air masks. In order to minimize the loss of work efficiency resulting from the use of air masks, we are training the operators to work all of the jobs in the PVC plant. This will permit rotation of the operators between the regulated and non-regulated areas and permit effective use of the fresh air "safe haven" rooms already provided in the plant.



E. A. Primeau

EAP:ms

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