



PUT IT IN WRITING

Date 5 March 1975

To E. J. Steck/Calvert City Subject EMULSIONS FEBRUARY 1975 TESTING

From C. G. MacDonald/Calvert City VINYL CHLORIDE IN AIR

☐ Take Action ☒ For Your Approval ☐ For Your Info ☐ Discuss With Me
☐ For Your Comments ☐ As Requested ☐ File ☐ Note & Return

1. The attached reports cover February 1975, testing of vinyl chloride concentrations, as follows:
- Plant personnel tests by Laboratory using 8-hour Sipin equipment, and
 - Summary of Bendix GC readings by shifts, expressed as 8-hour TWA's. The table covers the AF 3 area average, the other (non AF 3) areas averaged, along with the maximum observed ppm of VCL in the shift. Where possible, the times of excursions are noted.
2. On three occasions in February, the plant was out of OSHA limits, based on >1 ppm 8-hour and/or 15 minute allowable 5 ppm. These were 2/15/2200 (16 minute duration), 2/24/0630 (16 minute duration) and 2/24/1600.
3. Despite improvement of the plant exhaust fans, the sample points are affected when venting the A-728 batches.

C. G. MacDonald
C. G. MacDonald

cc: J. T. Barr/Valley Forge
H. M. Konrad
J. D. Kramer
R. W. McGinnis
A. K. McMillan/Valley Forge
G. B. H. Speed
M. H. Stermon
H. L. Watson/Valley Forge

RECEIVED

MAR 13 1975

T. L. CAREY

AP00023846

EMULSIONS - FEBRUARY 1975 - VINYL CHLORIDE EXPOSURES

PERSONNEL SIPIN TESTS (8-HOUR) BY LABORATORY

DURING A-728 PRODUCTION

<u>DATE</u>	<u>SHIFT</u>	<u>OPERATOR</u>	<u>DUTIES</u>	<u>PPM VCL</u>	
2/6	8-4	Pace	AF 3 Oper.	3.6	
		Edwards	Shotgun	0.24	
		Driver	Rotoplane	1.5	
		Story	Atm. Oper.	0.11	(Non AF 3 Are:
		Kinsey	Atm. Oper.	0.22	" " "
		Davis	Warehouse	<0.1	" " "
2/7	12-8	Pace	AF 3 Oper.	2.3	
		Northcott	Shotgun	11.8	
2/21	12-8	Eacret	AF 3 Oper.	1.2	
		Stice	Shotgun	0.11	
2/23	8-4	Moore	AF 3 Oper.	0.46	
		Sweany	Shotgun	0.09	

NO INFLUENCE
FROM PLE IN
THESE RESULTS

TESTS - NO A-728 RUNNING

2/13	8-4	Downing	Warehouse	<0.1
		Potts	Rotoplane	<0.1
		Sellars	Shotgun	<0.1

AP00023847

EMULSIONS - VINYL CHLORIDE EXPOSURES (BENDIX GC CHARTS)

AF₃/OTHER

FEBRUARY 1975

8-HOUR TIME WEIGHTED AVERAGES

AF #3 AREA				OTHER AREAS			
SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT

MAXIMUM PPM VCL READINGS			
SHIFT	SHIFT	SHIFT	SHIFT

Date	1	2	3	1	2	3	1	2	3	Comments
2/1	.02	0	0	0	0	0	1/-	-	-	
2/2	0	.044	.03	0	0	0	-	1/-	1.2/-	
2/3	.01	.08	0	0	.03	0	-	1/0.6	-	1530
2/4	0	.006	0	0	.004	0	-	1/0.01	-	1100
2/5	0	.33	X	0	.33	X	-	2/1.5	X	1430 Max X Bendix Out of Ser
2/6	(X	.41	.046	0	.016	0	-	14/0.2	140	Vent 1015, 1100, Found Blower Off
2/7	.067	.29	.034	.014	.37	.055	1.7/0.3	(12/5)	0.5/1	0900 - 1600
2/8	.07	.06	.18	0	.06	.21	1.7/0	.5/5	2.2/1.6	1300, 1600, 2030
2/9	0	0	.01	0	0	-	0	0	0.5/-	
2/10	0	0	.013	0	0	.01	0	0	.2/.2	1910
2/11	0	0	.092	.22	0	.073	14.5/0	0	2/1.5	0300, 2130
2/12	.009	.016	.11	.01	.017	.09	.05/.05	.2/1	.7/.5	
2/13	.015	0	0	.007	0	0	.4/1	0	0	
2/14	0	0	0	0	0	0	0	0	0	
2/15	.005	.035	0.66	.003	.06	1.50	0	.5/1.5	21/50	1200, 2200 Most (16 Min. Dur.
2/16	.024	.01	.005	.021	.011	.006	.3/55	.1/1	.1/1	
2/17	0	.01	0	0	.01	0	0	.05/.05	0	
2/18	.005	.003	.009	.005	.003	.009	.1/1.1	.05/.05	.1/1.1	PVC Down
2/19	0	.018	.01	0	.023	.01	0	.2/2	.2/2	1530 - 1700
2/20	0	0	0	0	0	0	0	0	0	
2/21	(0	.06	.03	0	.04	.04	0	.5/6	.4/1.5	

AP00023848

EMULSIONS - VINYL CHLORIDE EXPOSURES BENDIX GC CHARTS)
FEBRUARY 1975

Page 2

Date	8-HOUR TIME WEIGHT						AVERAGES			MAXIMUM PPM VCL READINGS						Comments
	AF #3 AREA			OTHER AREAS			SHIFT			SHIFT			SHIFT			
	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT	SHIFT			
2/22	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1600 (1 peak > 5)
2/23	.02	0.1	0.75	.03	0.03	0.04	1	.4/2.	.8/.4	35/1.5	0700					
2/24	1.65	0.66	0.23	.45	0.072	0.13	50/2.5	23/2	3.8/0.5							
2/25	0.55	0.12	1.19	.34	0.09	1.50	8.5/50	2.2/1	18.5/17.							0030 PVC batch, 0620 1X50 (4 cycles > 5)
2/26	0.67	0.75	.02	.90	0.70	.01	1.5/2	3.4/5.	0.2/0.2							0001 - 0800, 0800 - 1330
2/27	.03	.05	.15	.12	0.41	.17	0.5/0.5	0.6/4	0.8/1.8							PVC blew 1515, 1600-2400
2/28	0.45	0.23	0.29	.72	0	0.01	13/21	3.5/0	9.5/0.1							0001 - 6 cycles
	0.33	0.16	0	.50	0.14	0	1/2	0.6/1.	0							0430 - 0800

Note: () Running A-728 during these periods. AF #3/Other

AP00023849