

#1, 2, 3

VCM-OSHA INSPECTIONS

Avon Lake General Chemical

OSHA Inspection

June 25-27, 1974

H. Jaworski, Industrial Hygienist
U. S. Department of Labor - OSHA

A. Rossi, Compliance Officer
U. S. Department of Labor - OSHA

1. Inspected plant.
2. Completed VC/PVC questionnaire.
3. We were informed that we will be cited for three non-related vinyl chloride violations. To date, the written citations have not been received.
4. They collected 20 vinyl chloride air samples, plus 2 from the Avon Lake Technical Center. To date, we have not received these results.
5. The samples we collected simultaneously with charcoal tubes indicated the following levels:

Avon Lake Technical Center

Pilot Plant Operator	1.9 ppm
During general clean up	1.5 ppm

Avon Lake General Chemical

Charge Operator B/451	7.8 ppm
Helper Opening Poly B/451	11.0 ppm
Helper - HRC Poly B/451	10.0 ppm
Blowdown Operator B/451	2.2 ppm
Charge Operator B/461	22.0 ppm
Blowdown Operator B/461	25.0 ppm
Helper Cleaning Poly B/461	80.0 ppm

(Helper was wearing air line respirator,
disposable impervious suit, rubbers, gloves)

Relief Charge Operator Opening Poly B/461	28.0 ppm
Transfer Operator B/463	154.0 ppm
Geon Operator - Readings B/463	21.0 ppm
Helper B/463	9.3 ppm
Warehouse B/463	2.0 ppm
Blowdown Operator B/464	2.7 ppm
Charge Operator B/464	.47ppm
Relief Charge Operator B/464	1.0 ppm
HRC Operator B/464	3.7 ppm
Helper - #3 S.D. Bagger B/452	.72ppm
Spray Dryer Operator Unplugging #3 B/452	1.6
Helper - #4 S.D. Bagger B/452	.75
Pearl Vent Operator - Transfer B/452	1.0

*Tank Truck
Tank Car
Drumming*

NGC 13887

REDACTED

B.F.GOODRICH CHEMICAL COMPANY
Avon Lake General Chemical Plant

OSHA INSPECTION DATA SHEET
PERSONNEL MONITORING

Sample No.	1	2	3	4
Bldg.	451	451	451	451
Date	6-26-74	6-26-74	6-26-74	6-26-74
Start	0950	0953	1019	1025
Finish	1010	1013	1039	1045
Operator				
Classification	Charge	Helper	Helper	Blowdown
Activity		Opening poly	HRC poly	
BFG Tube No.	45	46	47	48
BFG VCl, ppm				
OSHA Tube No.	6	11	5	1
OSHA VCl, ppm				
Bendix readings, ppm				
Probe No.				
3rd Inlet A #1	0	#3 9	#2 8.5	#2 6.5
" SW #2	4.5	#4 4.5	#3 6	#3 5
		2nd Floor		
" SE #3	9.0	#1 0	#4 2	#4 2
		#2 5.0	#1 3.6	#1 0
		#3 5.1	#2 6.5	#2 4
		#4 2.0	#3 5	#3 3
			#4 2	#4 1

Comments -

Sample No. 2 - Opening dirty poly; removed nuts without charcoal mask; put mask on to remove manhead and placed evacuation hose inside. OSHA picture taken.

Sample No. 3 - Wash down & HRC poly. OSHA picture taken respirator on.

Wind from North.

Bendix calibrated 6-12-74. VCl cylinder regulator stolen

Wang 1100 hr. avg: $\frac{1}{2}$ $\frac{2}{4}$ $\frac{3}{4}$ $\frac{4}{1}$ ppm

NGC 13888

REDACTED

B.F.GOODRICH CHEMICAL COMPANY
Avon Lake General Chemical Plant

OSHA INSPECTION DATA SHEET
PERSONNEL MONITORING

Sample No.	5	6	7	8
Bldg.	461	461	461	461
Date	6-26-74	6-26-74	6-26-74	6-26-74
Start	1101	1105	1400	1345
Finish	1122	1126	1420	1405
Operator				
Classification	Charge	Blowdown	Relief (Charge)	Helper
Activity			Opening poly	Cleaning poly
BFG Tube No.	49	50	52	51
BFG VCl, ppm				
OSHA Tube No.	8	10	9	6
OSHA VCl, ppm				
Bendix readings				Inside poly evac. hose
3rd NW P-138	#1 32	#1 32	#3 10	3.5
" SW Inlet A.	#2 22	#2 22	#1 6.5	4.
" NE P-154	#3 15	#3 15	#2 4	5
	#1 26	2nd W #4 >100 p. 145	#3 18	6.5
	#2 11	2nd E #5 16		7
	#3 10	#1 26		7
		#2 11		6.5
		#3 10		6.2
		#4 27		6
				5.2
				Bldg. inlet air
				5

Comments -

Sample No. 7 - Charcoal Mask on.

Sample No. 8 - Airline respirator on with disposable impervious suit, rubbers, gloves.
Cleaning poly #140, 3300 gal. G-99.

Wind from North - inlet air contaminated with VCl from B/451 and poly evacuation
exhausts from B/461.

Spraying of vinyl acrylic resin latex paint on 3rd floor.

Bendix calibrated 6-25-74

NGC 13889

OSHA DATA SHEET CONT'D.

REDACTED

Sample No.	9	10	11	12
Bldg.	463	463	463	463
Date	6-26-74	6-26-74	6-26-74	6-26-74
Start	1437	1437	1505	1505
Finish	1457.6	1457.6	1525	1525
Operator				
Classification	Geon Operator	Transfer	Helper	Warehouse
Activity	Readings			
BFG Tube No.	54	53	55	56
BFG VC1, ppm				
OSHA Tube No.	4	2	12	7
OSHA VC1, ppm				
Bendix Readings				
1st Floor Chg. Station #3	4	4	Drumming Sta#2	2
" BT 13 & 14 #4	3	3		
2nd Floor PM 3 #5	24	24	27	#2 4
" BT 12 & 13 #6	9	9		
#3	6	6	6.5	
#4	4	4		
#5	30	30	21	
#6	6	6		

Comments

Sample No. 9 - Upstairs poly area; to smoke shack for 3 mins.

Sample No. 10 - Checked transfer of 352 from BDT to BT; >
Changed sock; took sample of 352

Sample No. 11 - Stood by 2nd floor East wall opening;
Walking, 1st and 2nd floor

Sample No. 12 - Lift truck driving; some plasticized VC1 - VAc
Spilled on floor (590X4)

Wind from north

Bendix calibrated 6-19-74

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REDACTED

OSHA DATA SHEET CONT'D

Sample No.	13	14	15	16
Bldg.	464	464	464	464
Date	6-26-74	6-26-74	6-26-74	6-26-74
Start	1557	1557	1626	1626
Finish	1617	1617	1647	1646
Operator				
Classification	Blowdown	Charge	HRC Oper.	Relief (Charge)
Activity				
BFG Tube No.	57	58	60	59
BFG VCl, ppm				
OSHA Tube No.	17	14	15	16
OSHA VCl, ppm				
Bendix Readings				
3rd Floor C P-210 #2 1		1	#1 0.5	0.5
2nd BDT 5 #4 1.5			#2 0.5	0.5
2nd P-204 #5 0			#3	4.
3rd NE #1 1		1	#4 2.0	
#2 2		2	#5 0	
			#1 1.0	1

Comments

- Sample No. 14 - Weighing up Visol 540 (W-13), calcium phosphate, gelatin
- Sample No. 15 - Did not HRC; trying to unplug P-215 on 2nd floor; respirator on.
- Sample No. 16 - Trying to unplug P-215 from top; poly 1/3 full of slurry; respirator on.
- Picture taken of Bendix monitoring system and recorder.
- Wind from the north
- Bendix calibrated 6-26-74

REDACTED

OSHA DATA SHEET CONT'D

Sample No.	17	18	19	20
Bldg.	452	452	452	452
Date	6-27-74	6-27-74	6-27-74	6-27-74
Start	0847	0847	0916	0916
Finish	0907	0907	0936	0936
Operator				
Classification	Spray Dryer Oper.	Helper	Helper	Pearl Vent Oper.
Activity	Unplugging #3	#3 S.D. Bagger	#4 S.D. Bagger	Transfer
BFG Tube No.	62	61	63	64
BFG VC1, ppm				
OSHA Tube No.	37	24	43	44
OSHA VC1, ppm				

Comments -

- Sample No. 17 - Attempting to unplug #3 spray dryer cone; excessive dusting; dust mask on.
 - Sample No. 18 - Short term bagging; attempting to unplug resin hopper; excessive dusting; dust mask on; removed full skid with lift truck.
 - Sample No. 20 - Transferring Geon 102, 92, 99.
- Wind from East.

M. D. Rider
6-28-74

bp

NGC 13892