

P. H. LAWRENCE

February 13, 1974

CHEMICALS USED IN PVC PROCESS AREAS

Thank you for your lists with dates for Bldgs. 1, 15, 111 and 121. I am attaching a first pass at the kind of correlation we will be wanting to get out of the Tabershaw computerized "in depth data base" on all of our employees.

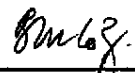
You will note Tom Linak's and my memories of uses in other buildings on 15 of the more or less volatile volume products used at Louisville. Could you supply me with your more accurate type records of toxic chemicals used in all of your other process buildings. Bill Wilcox is requesting the job history of all of your process area exposed people, including the building assignments where applicable. Ultimately this data will be computerized by Tabershaw for correlation with our medical test records.

Also, for each compound we would like your judgment indication of level of potential employee exposure (substantial, moderate, little). In cases such as vinyl chloride and other "substantial" chemicals, we would also like a judgment rating by past work practices as to "high, medium, or low" with the approximate year of change in each building; e.g. John remembers many solid charges in Building 111 during the EP resin learning period.

Thanks for your fine cooperation on this second go-around. I'm sure that Tabershaw will want more later, but our timely response should be appreciated by all, including getting at answers such as VCM or VCM plus others.

Attached you will also find a copy of the estimated employee distribution in the 1966 University of Michigan study and our guess on the TCA study last June. You will also find Bill Wilcox's tabulation including some escalation to include all employees at our VCM and PVC plants which were reported to TCA in recent months. You will note considerable differences in judgment may be involved, and we will have to eventually rationalize these differences, before our company-wide, in depth study can be correlated.

RMGZ:ksc


B. M. G. Zwicker

cc: J. L. Nelson/E. W. Harrington
cc: W. J. Wilcox

attach.-

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FEB 15 1974

PRELIMINARY SUMMARY OF MAJOR MONOMERS AND SOLVENTS USED IN LOUISVILLE PLANT BUILDINGS --II

<u>BLDG.</u> <u>No.</u>	<u>BUTA-</u> <u>DIENE</u>	<u>STY-</u> <u>RENE</u>	<u>ACRYLO-</u> <u>NITRILE</u>	<u>VCM</u>	<u>VINYL-</u> <u>IDENE</u> <u>CHLOR.</u>	<u>VINYL</u> <u>ACET.</u>	<u>METHYL</u> <u>ACRYL.</u>	<u>ETHYL</u> <u>ACRYL.</u>	<u>TRICHLORO</u> <u>ETHANE</u>	<u>ETHYLENE</u>	<u>CHLORO-</u> <u>FORM</u>	<u>CCl₄</u>	<u>METH-</u> <u>ANOL</u>	<u>EDC</u>	<u>CHLORINE</u> <u>& HCl</u>
1				82-74		60-65				65-74		43-51	42-74	57-63	
4											62-74	62-74			62-74
6				46-62											46-62
15				43-74	43-74	48-74	43-50	43-74	46-58	65-74	71-74	43-50	43-74	58-60	71-74
30		67-74	67-74												
111				48-74		58-71				71-74			48-73		
121				47-74		47-74	48-74	48-74							
127				48-64					57-64				48-64		48-62
131	42-74	42-74	49-74												

VCM = Vinyl chloride monomer

EDC = ethylene dichloride

cc: Tabershaw-Cooper Assoc. (2)

M.N. Johnson

A. Vittoni, Jr.

W.C. Becker

R.W. Strassburg

P.H. Lawrence

D/5004 File

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PRELIMINARY SUMMARY OF EXPOSURE HISTORY OF EMPLOYEES TO MAJOR MONOMERS AND SOLVENTS

Birth date	5-25-15	1-15-24	10-17-25	8-19-35	8-18-16	6-26-22	5-11-17	4-2-43
Service date	11-28-45	10-24-49	12-9-48	11-15-55	10-18-44	6-20-44	8-29-49	3-2-66
Illness date	8- -73	8-19-67	5-10-65 10-19-70	5- 1-70	10-15-73	11- 7-54	2- 4-73	8-6-73
Death date	12-19-73	1- 7-68	3- 3-73	9-27-71				

Years of exposure

vinyl chloride	28	15	17	15	29	23	24	6
vinylidene chloride	10	12	17	2.5	8	3	9.5	0.2
vinyl acetate	28	12	17	2.5	6	0	9.5	0.2
methyl acrylate	18	2	2	2	2	3	0	1.2
ethyl acrylate	17	12	17	2.5	8	20	2.5	1.2
chlor. solvents	8	6	12	3.5	2	3	8.2	0.2
methanol	11	12	17	5	29	23	24	5

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B.F.GOODRICH CHEMICAL COMPANY

February 12, 1974

**Employees at Selected Locations Grouped By
Level of Exposure to Vinyl Chloride Monomer**

<u>LOCATION</u>	<u>EXPOSURE</u>			<u>TOTALS</u>
	<u>High</u>	<u>Medium</u>	<u>Low or None</u>	
ALGC				
Active	425	9	247	681
Retired	4	5	10	19
ALTC				
Active	49	54	324	427
Retired	-	2	12	14
Calvert City				
Active	-	-	588	588
Retired	-	-	11	11
Henry				
Active	-	111	200	311
Retired	-	-	1	1
Long Beach				
Active	-	-	124	124
Retired	-	-	-	-
Louisville				
Active	270	465	442	1177
Retired	11	9	12	32
Pedricktown				
Active	-	-	258	258
Retired	-	-	-	-
TOTALS	<u>759</u>	<u>655</u>	<u>2229</u>	<u>3643</u>

W.J.Wilcox

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	1966 STUDY				1973 TCA REPORT			
	Capacity MM #/Yr.	Employees			Capacity MM #/Yr.	Employees		
		Mon.	Pol.	Cpd.		Mon.	Pol.	Cpd.
Niagara Falls (1940-67)	20	10	36	-	-	-	-	-
Louisville (1942-Now)	120	30	200	100	175	-	300	150
Avon Lake (1953-Now)	120	-	200	50	200	-	300	150
Long Beach (1960-Now)	80	-	50	24	100	-	40	-
Calvert City (1953-Now)	400	100	-	-	960	526	-	-
Henry (1965-Now)	-	-	-	-	200	-	-	-
Pedricktown (1970-Now)	-	-	-	-	80	-	48	-
ALTC (1946-Now)	-	-	-	-	-	-	-	-

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B. J. L.
6/1/11