

INTER-OFFICE MEMO TENNECO CHEMICALS, INC.

TO	J. T. Sweeney	AT	Flemington	DATE	September 30, 1975
FROM	W. C. Champion	AT	Flemington	COPY TO	W. D. Bord P. A. Lobo R. A. Lojewski W. Miringoff F. X. Ritter M. K. Rosen G. I. Rozand F. Toca
SUBJECT	<u>VCM Exposure Data - Flemington Plant</u> <u>Bendix Monitoring System</u> Period: September 20, 1975 to September 26, 1975				

Attached are area data summaries, summaries of excursions above 1, 5, 25 and 100 PPM VCM and a listing of all excursions observed at or above 100 PPM VCM. Points #9 and #20 in the Reactor Building remained in special service this report period.

The Plant has been in operation seven days for this report period running at about 91% utilization. The following summaries are taken from a tabulation of 25% of the data or one set of readings per hour.

The Reactor Building showed 351 readings > 1 PPM, 14 excursions > 25 PPM and 2 readings > 100 PPM.

The Pilot Plant showed 681 readings > 1 PPM, 2 excursions > 25 PPM and no readings > 100 PPM.

The General Area showed 155 readings > 1 PPM, 13 excursions > 25 PPM and 5 readings > 100 PPM.

The Lift Station showed 20 readings > 1 PPM and no excursions > 25 ppm.

The Parshall Flume showed 126 readings > 1 PPM and no excursions > 25 PPM.

All readings greater than or equal to 100 PPM are tabulated in Table IV. Sixteen readings at or above 100 PPM occurred during this report period reflecting ten separate incidents. Three incidents occurred in the Reactor Building affecting the center aisle. Seven incidents occurred in the General Area affecting the VCM pumps in the tank farm and VCM tank car unloading area. There were no incidents in the Pilot Plant this report period.

W.C. Champion (RAC)
W. C. Champion

WCC:ms

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TABLE 1
REACTOR BUILDING

Period Covered 9-20/9-26-75

Monitoring Point	N	$\bar{x}$	γ_1	γ_5	γ_{25}	γ_{100}
1 Center Aisle Column #2, 1st flr	133	0.3	8	1	0	0
2 Center Aisle Column #4, 1st flr	133	0.6	8	1	1	0
3 Center Aisle Column #6, 1st flr	133	0.8	8	1	1	0
4 #1 Slurry Transfer Pump, 1st flr	133	0.4	5	1	1	0
5 #2 Slurry Transfer Pump, 1st flr	133	0.3	6	2	0	0
6 Detramer Tanks, 1st flr	133	0.3	6	2	0	0
7 #1 Recovery Compressor Wall, 1st flr	133	0.4	11	1	0	0
8 #1 Recovery Vacuum Seal Pump, 1st flr	133	0.4	12	1	0	0
9 VCM Day Tank Pumps, outside			SPECIAL			
10 Center Aisle Column #2, 2nd flr	167	1.4	10	3	2	1
11 Center Aisle Column #4, 2nd flr	167	2.1	34	9	2	1
12 Center Aisle Column #6, 2nd flr	167	1.5	17	5	2	0
13 Stripper #2 Platform, manhole, 2nd flr	167	1.2	35	6	1	0
14 Panel Board Column #7, 2nd flr	167	1.2	23	4	1	0
15 Stripper #1 Platform, manhole, 2nd flr	167	1.2	35	7	0	0
16 Knock-Out Pots, 2nd flr	167	1.5	36	8	1	0
17 West Wall Between Old Styrene Tanks, 2nd flr	167	1.8	32	10	0	0
18 South Wall Near Gelatin Make-Up Area, 2nd flr	167	1.4	28	8	1	0
19 Stairwell in Hallway, 2nd flr	167	1.9	37	12	1	0
20 Outside, near left side door to weigh tank			SPECIAL			
Total	2700	1.04	351	82	14	2

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TABLE II
PILOT PLANT

Period Covered 9-20/9-26-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
Dryer	168	0.7	12	0	0	0
Lift Station (future)	168	0.9	20	4	0	0
Pilot Laboratory	168	0.7	9	0	0	0
Centrifuge	168	1.6	69	2	0	0
"F" Reactor	168	1.7	76	5	0	0
Marshall Flame	168	2.6	126	8	0	0
Cooling Tower	168	2.2	98	2	1	0
Pump Switches	168	2.5	106	18	0	0
"E" Reactor	168	1.9	92	3	0	0
"B" & "C" Reactors	168	2.7	119	17	1	0
Total	1,680	1.8	727	59	2	0

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TABLE III
GENERAL AREA

Period Covered 9-20/9-26-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1. Truck Loading	168	0.9	21	8	1	0
2. Quality Control Laboratory, west	168	0.2	5	0	0	0
3. Quality Control Laboratory, east	168	<0.1	1	0	0	0
4. Lunchroom	168	<0.1	0	0	0	0
5. Bulk Loading Tower	168	<0.1	2	0	0	0
6. Dryer Room	168	0.1	2	0	0	0
7. Bagging Seat	168	<0.1	0	0	0	0
8. Maintenance Shop	168	<0.1	1	0	0	0
9. VCM Pumps	168	4.8	63	25	3	1
10. Tank Car Unloading	168	7.5	60	27	9	4
Total	1680	2.0	155	60	13	5

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TABLE III

GENERAL AREAPeriod Covered 9-20/9-26-75

Monitoring Point		N	$\bar{x}$	>1	>5	>25	>100
1	Truck Loading	168	0.9	21	8	1	0
2	Quality Control Laboratory, west	168	0.2	5	0	0	0
3	Quality Control Laboratory, east	168	<0.1	1	0	0	0
4	Lunchroom	168	<0.1	0	0	0	0
5	Bulk Loading Tower	168	<0.1	2	0	0	0
6	Dryer Room	168	0.1	2	0	0	0
7	Bagging Seat	168	<0.1	0	0	0	0
8	Maintenance Shop	168	<0.1	1	0	0	0
9	VCM Pumps	168	4.8	63	25	3	1
10	Tank Car Unloading	168	7.5	60	27	9	4
Total		1680	2.0	155	60	13	5

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EXCURSIONS AT 100 ppm OR GREATERPERIOD COVERED 9-20/9-26-75

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
9-20-75	2027	VCM Pumps, TANK FARM
9-21-75	2112	VCM Pumps, TANK FARM
9-21-75	2044	TANK CAR UNLOADING AREA
	2058	" " " "
	2113	" " " "
	2128	" " " "
	2358	" " " "
	0044	" " " "
	0113	" " " "
	0143	" " " "
	0213	" " " "
	0613	" " " "
9-23-75	1529	" " " "
	1700	CENTER AISLE, REACTOR BUILDING
9-25-75	1614	CENTER AISLE, REACTOR BUILDING
	1216	" " " "

R.A.L.

9-29-75