

INTER-OFFICE MEMO **TENNECO CHEMICALS, INC.**

TO	J. T. Sweeney	AT	Flemington	DATE	December 17, 1975
FROM	R. A. Lojewski	AT	Flemington	COPY TO	W. D. Bord W. F. Gabel D. M. Hershkowitz W. Miringoff P. M. Reed 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: December 6, 1975 to December 12, 1975				

Attached are area 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. Monitoring points RE #9 and #20 remained in special service during this report period.

The Plant was in operation seven days for this report period running at about 95% 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 311 readings > 1 ppm, 24 excursions > 25 ppm and 7 readings > 100 ppm.

The Pilot Plant showed 235 readings > 1 ppm, 10 excursions > 25 ppm and 1 reading > 100 ppm.

The General Area showed 72 readings > 1 ppm, 1 excursion 25 ppm and no readings > 100 ppm.

The Lift Station showed 11 readings > 1 ppm, 2 excursions > 25 ppm and no readings > 100 ppm.

The Parshall Flume showed 58 readings > 100 ppm, 5 excursions > 25 ppm and no readings > 100 ppm.

All readings greater than or equal to 100 ppm are tabulated in Table IV. Twenty seven readings at or above 100 ppm occurred during this report period reflecting thirteen separate incidents. Ten incidents occurred in the Reactor Building affecting the center aisle 1st and 2nd floors, slurry transfer pumps, panelboard, knock out pots and the recovery compressor room. Three incidents occurred in the Pilot Plant "E", "F" and "B&C" reactors. There were no incidents in the General Area this report period. A joint effort between Analytical Services and the Safety Department is being made to define the source of these excursions.


R. A. Lojewski

RAL:ms

009851

REACTOR I DING

Period Covered

12-6/12-12-75

	Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1	Center Aisle Column #2, 1st flr	164	0.3	5	2	0	0
2	Center Aisle Column #4, 1st flr	164	1.1	8	3	2	1
3	Center Aisle Column #6, 1st flr	164	0.8	3	2	1	1
4	#1 Slurry Transfer Pump, 1st flr	164	0.8	8	2	1	1
5	#2 Slurry Transfer Pump, 1st flr	164	1.0	7	3	2	1
6	Defoamer Tanks, 1st flr	164	1.0	6	3	2	0
7	#1 Recovery Compressor Wall, 1st flr	164	2.0	19	11	5	0
8	#1 Recovery Vacuum Seal Pump, 1st flr	164	1.7	15	9	3	0
9	VCM Day Tank Pumps, outside	0	SPEC. ←				→
10	Center Aisle Column #2, 2nd flr	164	1.2	18	9	1	1
11	Center Aisle Column #4, 2nd flr	164	0.6	20	4	0	0
12	Center Aisle Column #6, 2nd flr	164	1.0	11	3	1	1
13	Stripper #2 Platform, manhole, 2nd flr	164	2.1	48	16	2	0
14	Panel Board Column #7, 2nd flr	164	0.9	12	4	1	0
15	Stripper #1 Platform, manhole, 2nd flr	164	1.5	31	6	2	0
16	Knock-Out Pots, 2nd flr	164	1.7	31	6	1	1
17	West Wall Between Old Styrene Tanks, 2nd flr	164	0.6	12	2	0	0
18	South Wall Near Gelatin Make-Up Area, 2nd flr	164	1.1	27	7	0	0
19	Stairwell in Hallway, 2nd flr	164	1.1	30	4	0	0
20	Outside, near left side door to weigh tank	0	SPEC. ←				→
Total		2952	1.1	311	96	24	7

009852

R.A. Loje
4/15/7

PILO ANT

Period Covered 12/6 to 12/12/75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
Dryer	163	0.1	2	0	0	0
Lift Station (future)	163	0.9	11	3	2	0
Pilot Laboratory	163	0.1	4	0	0	0
Centrifuge	163	1.6	42	8	1	0
"F" Reactor	163	1.7	33	12	1	0
Marshall Plume	163	3.6	58	31	5	0
Cooling Tower	163	1.7	67	6	1	0
Pump Switches	163	1.1	16	5	1	0
"E" Reactor	163	2.2	38	5	3	1
"B" & "C" Reactors	163	1.8	33	4	3	0
Total	1,630	1.5	304	74	17	1

R. A. Lojews
4/15/75

009853

GEN AREA

Period Covered 12/6 to 12/12/75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1. Truck Loading	163	0.1	1	1	0	0
2. Quality Control Laboratory, west	163	0.1	2	0	0	0
3. Quality Control Laboratory, east	163	0.1	1	0	0	0
4. Lunchroom	163	<0.1	0	0	0	0
5. Bulk loading Tower	163	<0.1	0	0	0	0
6. Dryer Room	163	0.1	3	0	0	0
7. Bagging Seat	163	<0.1	0	0	0	0
8. Maintenance Shop	163	0.1	2	1	0	0
9. VCM Pumps	163	1.5	41	16	0	0
10. Tank Car Unloading	163	0.9	22	8	1	0
Total	1,630	0.3	72	26	1	0

R. A. Loje
4/15/76

009854

①

EXCURSIONS AT 100 ppm OR GREATER

PERIOD COVERED 12-6/12-12

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
12-6-75	1145	CENTER AISLE COLUMN #2 2 ND FL. R BLDG.
	2048	CENTER AISLE COLUMN #4 1 ST FL. R BLDG.
	2050	" " " #6 1 ST FL. R BLDG.
12-7-75	2303	CENTER AISLE COLUMN #6 2 ND FL. R BLDG.
12-9-75	0203	CENTER AISLE COLUMN #4 1 ST FL. R BLDG.
	0205	" " " #6 1 ST FL. R BLDG.
	0207	#1 SLURRY TRANSFER PUMP 1 ST FL. R BLDG.
	0209	#2 SLURRY TRANSFER PUMP 1 ST FL. R BLDG.
	0215	CENTER AISLE COLUMN #2 2 ND FL. R BLDG.
	0217	CENTER AISLE COLUMN #2 1 ST FL. R BLDG.
	0217	CENTER AISLE COLUMN #4 2 ND FL. R BLDG.
	0449	CENTER AISLE COLUMN #6 2 ND FL. R BLDG.
	0453	PANELBOARD, COLUMN #7 2 ND FL. R BLDG.
	1909	KNOCK OUT POTS, 2 ND FL. R BLDG.
12-11-75	0133	CENTER AISLE COLUMN #4 1 ST FL. R BLDG.
	0255	#1 RECON. COMP. WALL, 1 ST FL. R BLDG.

EXCURSIONS AT 100 ppm OR GREATER

PERIOD COVERED _____

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
Continued 12-11-75	0442	*1 RECOV. VAC. SEAL PUMP 1 ST R BLDG
	0455	*1 RECOV. COMP. WALL 1 ST R BLDG
	0457	*1 RECOV. VAC. SEAL PUMP 1 ST R BLDG
	0525	*1 RECOV. COMP. WALL 1 ST R BLDG
	0725	*1 RECOV. COMP. WALL 1 ST R BLDG
	0740	*1 RECOV. COMP. WALL 1 ST R BLDG
	0754	" " " " " "
	0756	*1 RECOV. VAC. SEAL PUMP 1 ST R BLDG
	1845	B & C Reactors (PILOT PLANT)
	12-12-75	1838
	1913	E REACTOR (PILOT PLANT)

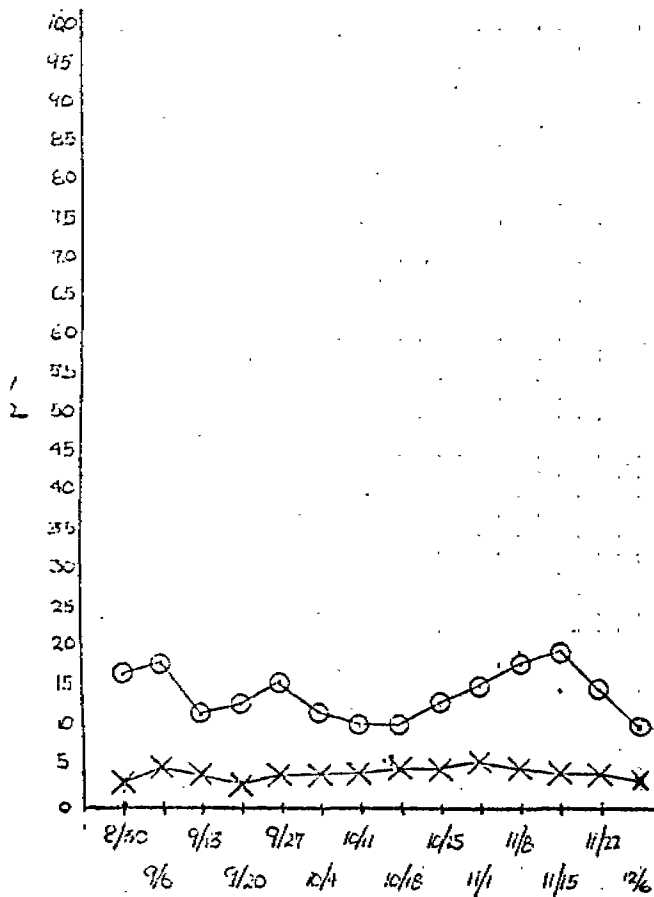
FLEMINGTON BR-101X MONITORING SYSTEM

PERCENT OF READINGS MONITORED ABOVE

1 ppm AND 5 ppm

REACTOR BUILDING

009857



REPORT PERIOD BEGINNING

O = PERCENT ABOVE 1 ppm
X = PERCENT ABOVE 5 ppm