

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

TO J. T. Sweeney AT Flemington DATE April 14, 1976

FROM R. A. Lojewski AT Flemington COPY TO W. D. Bord
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SUBJECT VCM Exposure Data - Flemington Plant
Bendix Monitoring System
Period: April 3, 1976 to April 9, 1976

Attached are the 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. Graph #1 shows the percentage of readings above 1 and 5 ppm VCM for the Reactor Building, while Graph #II shows the weekly VCM average for the Reactor Building and the Pilot Plant. Also attached is an analysis of the data found in Tables I - IV.

The Plant was in operation seven days for this report period operating at about 94% utilization. The following summaries are taken from a tabulation of 25% of the data or one set of readings per hour.

<u>Area</u>	<u>Number of Readings</u>			
	<u>≥1</u>	<u>≥5</u>	<u>≥25</u>	<u>≥100</u>
Reactor Building	662	117	7	0
Recovery Comp. Room	180	80	16	5
Pilot Plant	72	14	1	0
General Area	73	26	8	0
Parshall Flume	60	20	0	0

All readings greater than or equal to 100 ppm are tabulated in Table IV. Thirteen readings at or above 100 occurred during this report period reflecting nine separate incidents. Four incidents occurred in the Reactor Building affecting the center aisles 1st and 2nd floors. The remaining five incidents occurred in the Recovery Compressor Room. There were no incidents this report period in either the Pilot Plant or General Area.

R. A. Lojewski
R. A. Lojewski

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TABLE

REACTOR BUILDING

Monitoring Point

Period Covered

4-3/4-9-76

	N	$\bar{X}$	> 1	≥ 5	≥ 25	≥ 100
Center Aisle Column #2, 1st floor	161	1.0	16	3	1	0
Center Aisle Column #4, 1st floor	161	1.4	32	8	2	0
Center Aisle Column #6, 1st floor	161	0.6	14	5	0	0
#1 Slurry Transfer Pump, 1st floor	161	0.9	13	1	1	0
#2 Slurry Transfer Pump, 1st floor	161	0.5	12	2	0	0
DeFoamer Tanks, 1st floor	161	0.5	13	3	0	0
VCM Day Tank Area	0	*SPECIAL	←			→
Center Aisle Column #2, 2nd floor	161	2.5	65	22	2	0
Center Aisle Column #4, 2nd floor	0	*SPECIAL	←			→
Center Aisle Column #6, 2nd floor	164	1.0	37	4	0	0
Stripper #2 Platform, manhole, 2nd floor	164	2.6	92	21	1	0
Panel Board Column #7, 2nd floor	164	1.0	42	3	0	0
Stripper #1 Platform, manhole, 2nd floor	164	1.8	76	12	0	0
Knock-Out Pots, 2nd floor	164	2.0	69	15	0	0
Foreman's Desk	164	1.2	48	7	0	0
Dry Chemical Weigh-up Area	164	1.3	46	3	0	0
Stairwell in Hallway, 2nd floor	164	1.9	87	8	0	0
Weigh Tank Chip Basket Area	0	*SPECIAL	←			→
Total	2439	1.3	662	117	7	0

* MONITORING HEATING + VENTILATING AIR INTAKE DUCTS

RECOVERY COMPRESSOR ROOM

Monitoring Point

	N	$\bar{X}$	> 1	≥ 5	≥ 25	≥ 100
#1 Recovery System	161	5.6	78	33	8	2
#2 Recovery System	161	7.2	102	47	8	3
Total	322	6.4	180	80	16	5

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4/7/76

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TABLE

PILOT PLANT

Period Covered 4-3/4-9-76

Monitoring Point	N	$\bar{X}$	>1	>5	>25	>100
Strong Scott Dryer - Process Building	164	0.1	0	0	0	0
Boiler House	164	0.1	3	0	0	0
Pilot Plant Laboratory - Process Building	164	0.2	7	0	0	0
Centrifuge - Reactor Building	164	0.4	12	2	0	0
"F" Reactor - Reactor Building	164	0.8	9	3	1	0
Parshall Flume	164	1.9	60	20	0	0
Plastisol Tower - Reactor Building	164	0.6	10	3	0	0
VCM Storage Area - Reactor Building	164	0.7	11	3	0	0
"E" Reactor - Reactor Building	164	0.5	14	2	0	0
"B" & "C" Reactors - Reactor Building	164	0.4	9	1	0	0
	1312	0.5	72	14	1	0

* Total
not including
Boiler House & Parshall Flume
P.S.

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 1/8/76

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TF III

GENERAL AREA

Period Covered

4-3/4-9-76

	Monitoring Point	N	$\bar{X}$	>1	>5	>25	>100
1	Truck Loading Platform	163	<0.1	0	0	0	0
2	Quality Control Laboratory, West	163	0.3	11	2	0	0
3	Quality Control Laboratory, East	163	0.1	2	1	0	0
4	Lunchroom	163	<0.1	0	0	0	0
5	Bulk Loading Tower	163	0.1	3	1	0	0
6	Dryer Room	163	<0.1	2	0	0	0
7	Bagging Room - Baggers Seat	163	<0.1	0	0	0	0
8	Maintenance Shop	163	0.1	3	0	0	0
9	VCM Transfer Pumps - Tank Farm	163	1.7	20	6	3	0
10	Tank Car Unloading Platform	163	2.6	32	16	5	0
Total		1630	0.5	73	26	8	0

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1/8/76

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TABLE IV

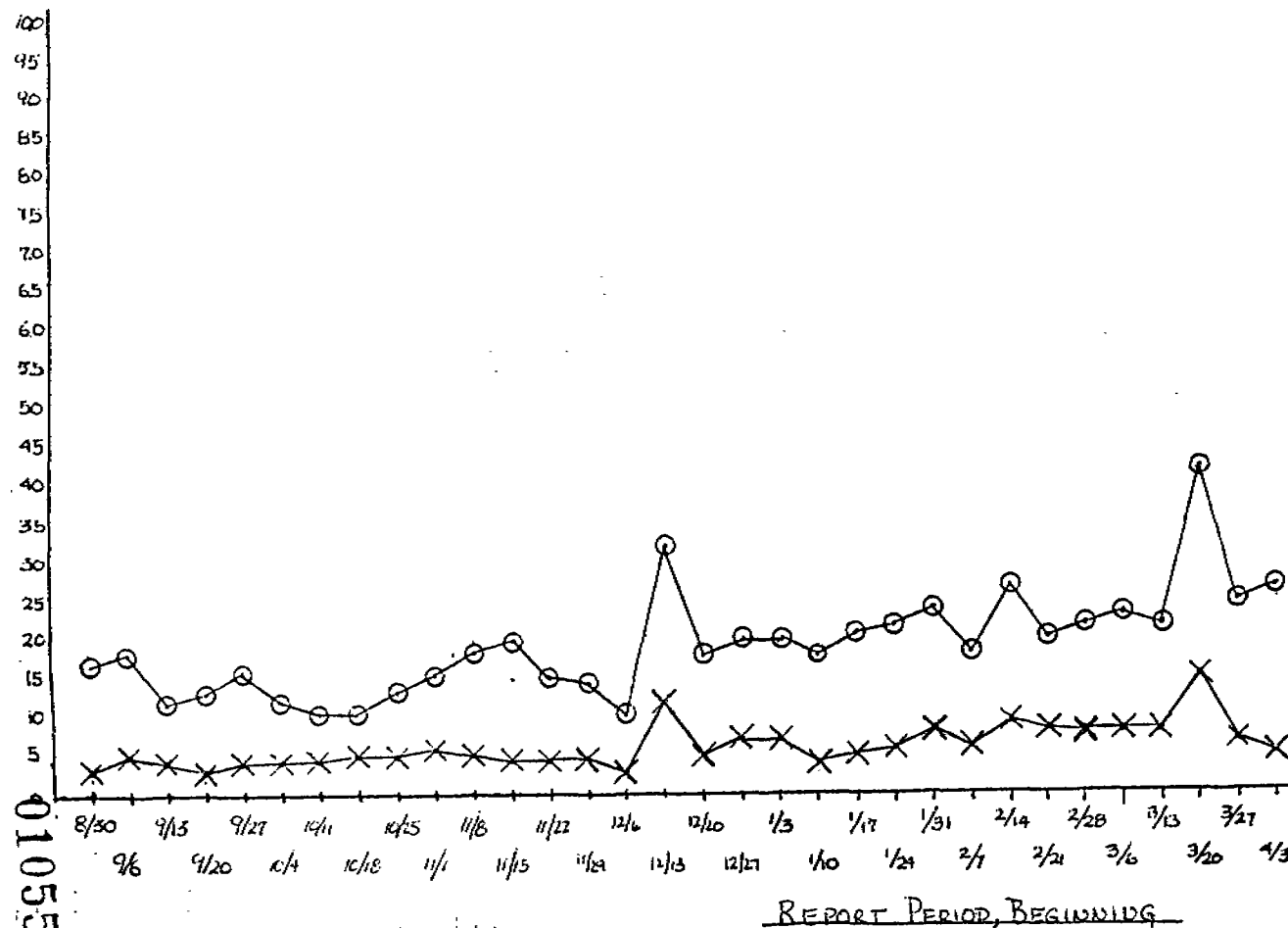
ALL EXCURSIONS AT OR GREATER THAN 100 ppm VCM

PERIOD 4-3/4-9-76

DATE	TIME	AREA AFFECTED	REMARKS
4-3-76	0750	CENTER AISLE COLUMN #6, 1 ST R. BLDG.	
4-4-76	0059	CENTER AISLE COLUMN #2, 2 ND R. BLDG.	
4-6-76	0059	CENTER AISLE COLUMN #2, 2 ND R. BLDG.	
	1011	#1 RECOVERY SYSTEM, 1 ST R. BLDG.	
	1026	#1 " " " " " "	
	2229	CENTER AISLE COLUMN #2, 2 ND R. BLDG.	
4-7-76	0826	#1 RECOVERY SYSTEM, 1 ST R. BLDG.	
4-8-76	1312	#1 RECOVERY SYSTEM, 1 ST R. BLDG.	
	1314	#2 " " " " " "	
	2212	#2 RECOVERY SYSTEM, 1 ST R. BLDG.	
	2355	#1 RECOVERY SYSTEM, 1 ST R. BLDG.	} Incident
	2357	#2 " " " " " "	
4-9-76	0012	#2 RECOVERY SYSTEM, 1 ST R. BLDG.	

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FLEMINGTON BE MONITORING SYSTEM
PERCENT OF READINGS MONITORED ABOVE
1 ppm AND 5 ppm
REACTOR BUILDING



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

REPORT PERIOD, BEGINNING

R.A.L.

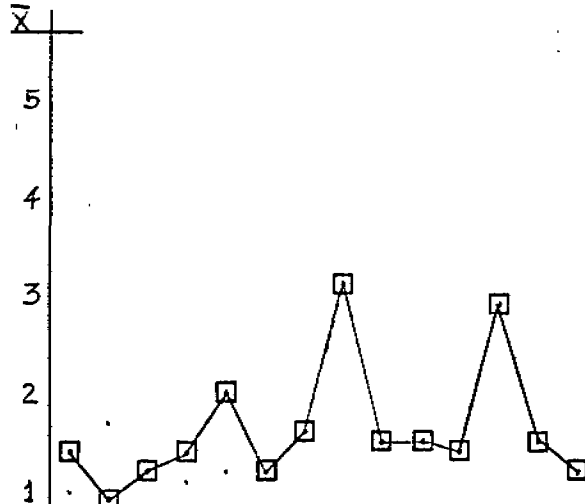
GRAPH #2

WEEKLY PLANT EXPOSURE AVERAGES

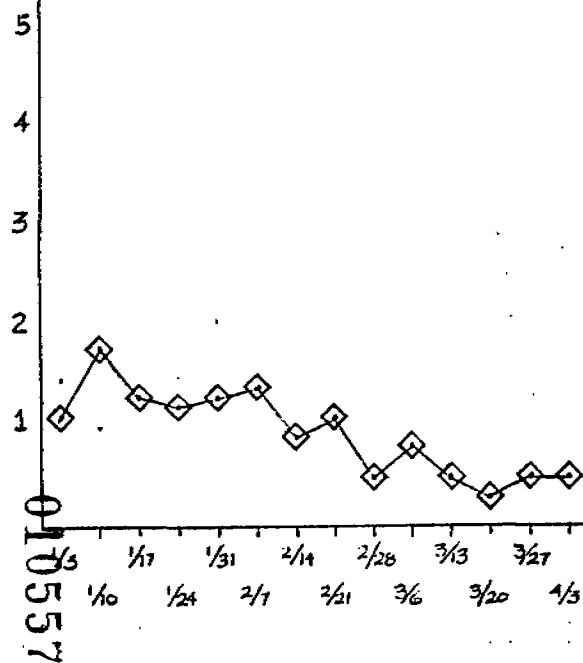
FLEMINGTON

REACTOR BUILDING

PM
/CM



PILOT PLANT



REPORT PERIOD, BEGINNING