

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

TO J. T. Sweeney AT Flemington DATE March 30, 1976

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SUBJECT VCM Exposure Data - Flemington Plant
Bendix Monitoring System
Period: March 20, 1976 to March 26, 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. Also attached are two graphs: Graph #1 shows the percentage of readings above 1 and 5 ppm VCM for the Reactor Building, while Graph #2 shows the weekly VCM average for the Reactor Building and the Pilot Plant.

The Plant was in operation seven days for this report period operating at about 100% 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	1125	396	40	7
Pilot Plant	58	10	0	0
General Area	102	31	5	2
Parshall Flume	79	41	3	0

All readings greater than or equal to 100 ppm are tabulated in Table IV. Fifteen readings at or above 100 ppm occurred during this report period reflecting nine separate incidents. Seven incidents occurred in the Reactor Building affecting the center aisle 1st and 2nd floors, the recovery compressor room and number 1 and 2 strippers. Two incidents occurred in the General Area affecting the VCM tank car unloading area and tank farm VCM transfer pumps. There were no incidents in the Pilot Plant during this report period.

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RAL:ms

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TABLE I

REACTOR BUILDING

Monitoring Point

Period Covered

3-20/3-26-76

	N	$\bar{X}$	>1	>5	>25	>100
1. Center Aisle Column #2, 1st floor	154	1.7	42	10	1	0
2. Center Aisle Column #4, 1st floor	154	3.7	68	27	5	0
3. Center Aisle Column #6, 1st floor	154	2.3	40	17	3	0
4. #1 Slurry Transfer Pump, 1st floor	154	1.4	26	12	1	0
5. #2 Slurry Transfer Pump, 1st floor	154	1.2	24	12	1	0
5. DeFoamer Tanks, 1st floor	154	0.8	18	7	0	0
7. #1 Recovery System	154	6.6	124	53	8	2
3. #2 Recovery System	154	11.1	135	73	12	5
3. VCM Day Tank Area	0	SPEC.	← →			
0. Center Aisle Column #2, 2nd floor	154	2.9	75	26	3	0
1. Center Aisle Column #4, 2nd floor	0	SPEC.	← →			
2. Center Aisle Column #6, 2nd floor	161	2.5	67	22	2	0
3. Stripper #2 Platform, manhole, 2nd floor	161	3.1	99	32	2	0
4. Panel Board Column #7, 2nd Floor	161	1.9	52	15	2	0
5. Stripper #1 Platform, manhole, 2nd floor	161	2.5	76	20	0	0
5. Knock-Out Pots, 2nd floor	161	2.3	68	18	0	0
7. Foreman's Desk	161	1.9	64	16	0	0
3. Dry Chemical Weigh-up Area	161	2.0	65	17	0	0
0. Stairwell in Hallway, 2nd floor	161	2.4	82	19	0	0
0. Weigh Tank Chip Basket Area	0	SPEC.	← →			
Total	2674	3.0	1125	396	40	7

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1/8/76

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TABLE I

PILOT PLANT

Period Covered 3-20/3-26-76

Monitoring Point	N	$\bar{X}$	>1	>5	>25	>100
1 Strong Scott Dryer - Process Building	164	0.1	1	0	0	0
2 Boiler House	164	0.1	0	0	0	0
3 Pilot Plant Laboratory - Process Building	164	0.1	3	0	0	0
4 Centrifuge - Reactor Building	164	0.4	11	1	0	0
5 "F" Reactor - Reactor Building	164	0.4	7	1	0	0
6 Parshall Flume	164	3.9	79	41	3	0
7 Plastisol Tower - Reactor Building	164	0.3	10	1	0	0
8 VCM Storage Area - Reactor Building	164	0.5	9	2	0	0
9 "E" Reactor - Reactor Building	164	0.5	9	3	0	0
0 "B" & "C" Reactors - Reactor Building	164	0.4	8	2	0	0
Total	1640	0.3	137	51	3	0

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GENERAL AREA

Period Covered 3-20/3-26-76

	Monitoring Point	N	$\bar{X}$	>1	>5	>25	>100
1	Truck Loading Platform	163	<0.1	1	0	0	0
2	Quality Control Laboratory, West	163	0.1	3	0	0	0
3	Quality Control Laboratory, East	163	0.1	3	0	0	0
4	Lunchroom	163	0.1	4	0	0	0
5	Bulk Loading Tower	163	0.1	6	1	0	0
6	Dryer Room	163	0.1	6	0	0	0
7	Bagging Room - Baggers Seat	163	0.1	2	0	0	0
8	Maintenance Shop	163	0.1	5	1	0	0
9	VCM Transfer Pumps - Tank Farm	163	0.8	27	4	0	0
10	Tank Car Unloading Platform	163	3.5	45	25	5	2
	Total	1630	0.5	102	31	5	2

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TABLE IV

ALL EXCURSIONS AT OR GREATER THAN 100 ppm VCM

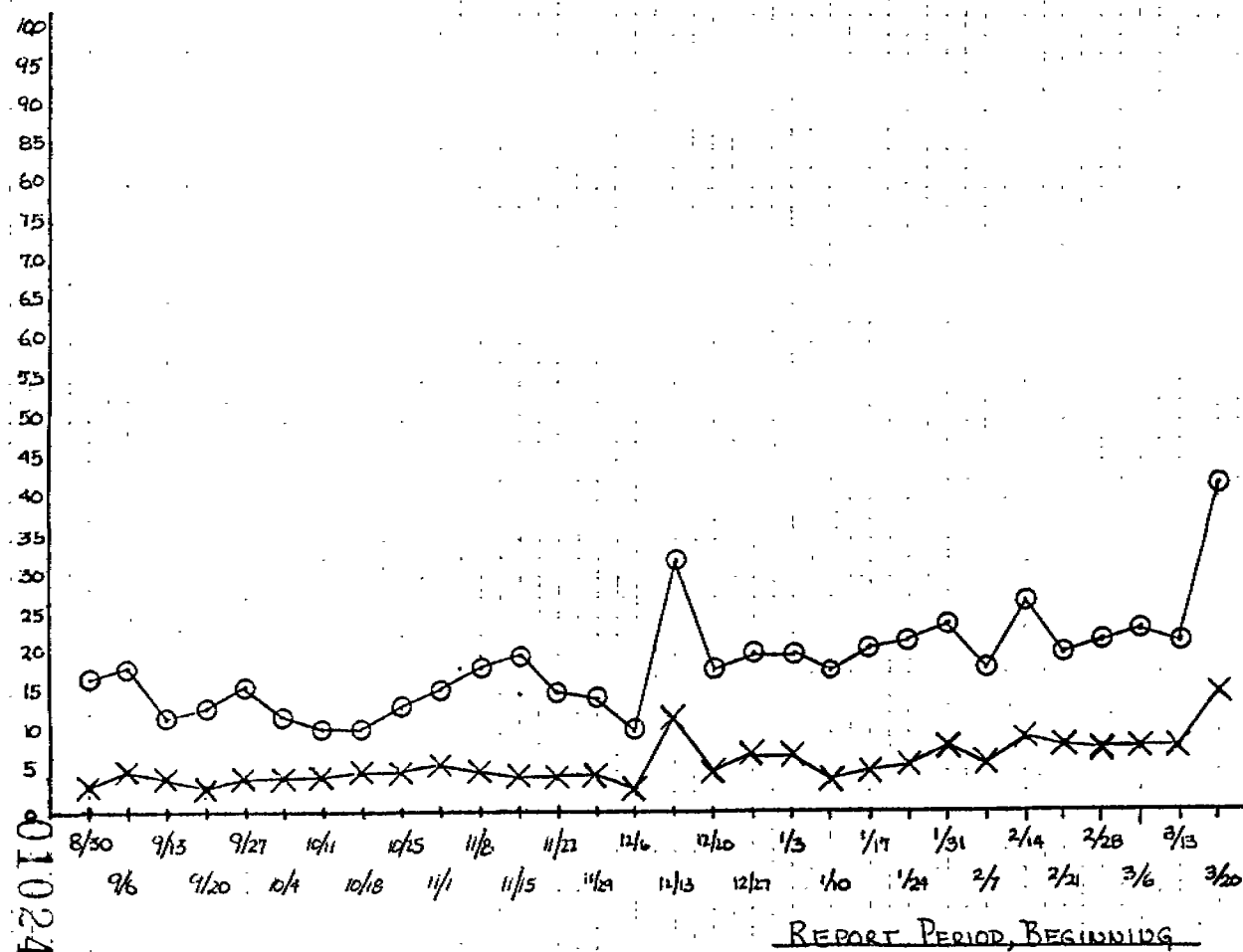
PERIOD 3-20/3-26-76

DATE	Time	AREA AFFECTED	REMARKS
3-20-76	0059	CENTER AISLE COLUMN *2, 2 nd R. BLDG.	UNKNOWN
	2211	*1 RECOVERY SYSTEM 1 st R. BLDG.	UNKNOWN
	2213	*2 " " " "	
3-21-76	2133	CENTER AISLE COLUMN *6, 2 nd R. BLDG.	UNKNOWN
	2135	STRIPPER *2 PLATFORM, MANHOLE 2 nd R. BLDG.	
3-23-76	1738	STRIPPER *1 PLATFORM, MANHOLE 2 nd R. BLDG.	UNKNOWN
	1912	*2 RECOVERY SYSTEM 1 st R. BLDG.	CHANGED VCM COWO FILTERS
	2012	" " " "	
3-24-76	0110	*1 RECOVERY SYSTEM 1 st R. BLDG.	CHANGED VCM COWO FILTERS
	0112	*2 " " " "	
	0212	*2 " " " "	
3-25-76	2215	TANK CAR UNLOADING PLATFORM.	UNLOADING VCM RAIL CAR
	2315	" " " "	
3-26-76	2118	CENTER AISLE COLUMN *4, 1 st R. BLDG.	UNKNOWN
	2258	VCM TRANSFER PUMPS TANK FARM.	UNKNOWN

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R.A.L. 276

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



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

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GRAPH #2
WEEKLY PLANT EXPOSURE AVERAGES
FLEMINGTON

REACTOR BUILDING

IN
CM

2

5

4

3

2

1

0

5

4

3

2

1

0

0243

1/3

1/10

1/17

1/24

1/31

2/7

2/14

2/21

2/28

3/6

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3/27

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4/7

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