

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

TO J. T. Sweeney AT Flemington DATE January 17, 1977

FROM R. A. Lojewski AT Flemington COPY TO W. D. Bord
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SUBJECT VCM Exposure Data and TWA - Flemington Plant
Area Monitoring System
Period: January 1, 1977 to January 7, 1977

TWA Only*

Attached are Plant summaries (Tables I-III). Table IV lists all excursions at or above 100 ppm including the number of incidents. Table V shows the TWA by job classification calculated from the data in Tables I-III. Graph #1 shows the percentage of readings above 1 and 5 ppm VCM for the Reactor Building while Graph #2 shows the weekly averages for the Reactor Building and the Pilot Plant. Also attached is an analysis of the Plant data by W. D. Bord.

The Plant was in operation seven days for this report period running at about 87% utilization. Three G. C.'s were on computer control and one was on Bendix control.

Area	Total	<u>≥1</u>		<u>≥5</u>		<u>≥25</u>		<u>≥100</u>	
		N	%	N	%	N	%	N	%
Reactor Building	4,940	1178	24	288	5.8	20	0.4	1	0.02
Recovery Comp. Room	1,176	934	79	470	40	81	6.9	23	2
Pilot Plant	3,828	474	12	13	0.3	0	0	0	0
General Area	5,885	581	10	19	0.3	2	0.03	0	0
Parshall Flume	589	12	2	0	0	0	0	0	0

All readings greater than or equal to 100 ppm VCM are tabulated in Table IV. Twenty four readings at or above 100 ppm occurred this report period reflecting nine separate incidents. One incident occurred in the Reactor Building affecting the center aisle 2nd floor. Eight incidents occurred in the Recovery Compressor Room affecting #1 and #2 recovery systems. No incidents occurred in the General Area or in the Pilot Plant during this report period.


R. A. Lojewski

RAL:ms

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TABLE I
REACTOR BUILDING

Monitoring Point

Period Covered

1-01/1-07-77

	N	$\bar{X}$	> 1	> 5	> 25	> 100
Center Aisle Column #2, 1st floor	589	0.5	57	12	1	0
Center Aisle Column #4, 1st floor	589	1.3	147	19	2	0
Center Aisle Column #6, 1st floor	588	1.0	104	21	2	0
#1 Slurry Transfer Pump, 1st floor	0	SPECIAL	← →			
#2 Slurry Transfer Pump, 1st floor	588	1.3	131	33	2	0
DeFoamer Tanks, 1st floor	0	SPECIAL	← →			
CM Day Tank Area	588	1.1	69	19	4	0
Center Aisle Column #2, 2nd floor	588	1.6	105	17	1	1
Center Aisle Column #4, 2nd floor	141	1.7	36	6	1	0
Center Aisle Column #6, 2nd floor	141	1.1	29	6	0	0
Stripper #2 Platform, manhole, 2nd floor	141	4.3	70	36	4	0
Panel Board Column #7, 2nd floor	141	2.9	78	23	2	0
Stripper #1 Platform, manhole, 2nd floor	141	1.9	70	12	0	0
Knock-out Pots, 2nd floor	141	2.3	68	18	0	0
Foreman's Desk	141	1.7	59	14	0	0
Dry Chemical Weigh-up Area	141	2.3	59	18	1	0
Stairwell in Hallway, 2nd floor	141	3.0	76	27	0	0
Weigh Tank Chip Basket Area	141	0.9	20	7	0	0
Total	4940	1.8	1178	288	20	1

RECOVERY COMPRESSOR ROOM

Monitoring Point

	N	$\bar{X}$	> 1	> 5	> 25	> 100
#1 Recovery System	588	17.4	464	227	37	11
#2 Recovery System	588	17.3	470	243	44	12
Total	1176	17.4	934	470	81	23

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4/7/76

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TABLE II
PILOT PLANT

Period Covered

1-01/1-07-77

Monitoring Point	N	$\bar{X}$	>1	>5	>25	>100
Strong Scott Dryer - Process Building	490	<0.1	1	0	0	0
Boiler House	0	SPECIAL	←————→			
Pilot Plant Laboratory - Process Building	491	<0.1	2	0	0	0
Centrifuge - Reactor Building	491	0.4	81	3	0	0
"F" Reactor - Reactor Building	589	0.5	88	2	0	0
Parshall Flume	589	0.2	12	0	0	0
Plastisol Tower - Reactor Building	589	0.7	134	2	0	0
VCM Storage Area - Reactor Building	589	0.3	68	0	0	0
"E" Reactor - Reactor Building	589	0.6	100	6	0	0
"B" & "C" Reactors - Reactor Building	0	SPECIAL	←————→			
* Total	3828	0.4	474	13	0	0

* less #6)

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1/8/76

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TABLE III
GENERAL AREA

Period Covered 1-01/1-07-77

	Monitoring Point	N	$\bar{X}$	>1	$\bar{X} \geq 5$	$\bar{X} \geq 25$	$\bar{X} \geq 100$
1	Truck Loading Platform	588	0.2	34	1	0	0
2	Quality Control Laboratory, West	588	0.6	84	9	2	0
3	Quality Control Laboratory, East	588	0.4	63	6	0	0
4	Lunchroom	589	0.2	32	0	0	0
5	Bulk Loading Tower	589	0.2	35	0	0	0
6	Dryer Room	589	0.2	45	1	0	0
7	Bagging Room - Baggers Seat	589	0.2	48	0	0	0
8	Maintenance Shop	589	0.2	49	0	0	0
9	VCM Transfer Pumps - Tank Farm	588	0.4	77	1	0	0
0	Tank Car Unloading Platform	588	0.5	114	1	0	0
	Total	5885	0.3	581	19	2	0

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1/8/76

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