

TENNECO CHEMICALS, INC.

TO	J. T. Sweeney	AT	Flemington	DATE	July 27, 1976
FROM	R. A. Lojewski	AT	Flemington	COPY TO	W. D. Bord C. N. Brown* R. F. Fanter W. F. Gabel M. R. Haymon D. M. Hershkowitz F. W. Kanzler W. Miringoff P. M. Reed S. Robbins* M. K. Rosen G. I. Rozand F. Toca R. J. Young
SUBJECT	VCM Exposure Data and TWA - Flemington Plant <u>Area Monitoring System</u> Period: July 10, 1976 to July 16, 1976				

Attached are the Plant area 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. Also attached is an analysis of the data by W. D. Bord. Graph #1 shows the percentage of readings above 1 and 5 ppm VCM for the Reactor Building, while Graph #2 shows weekly averages for the Reactor Building and the Pilot Plant.

The Plant was in operation five days (start up on July 12, 1976) for this report period running at about 82% utilization. The Pilot Plant was not in operation this report period.

As of July 13, 1976, eight Bendix heads were placed in special service. The choice of heads to be used was based on minimum impact on the job classification TWA's and their physical location in relation to other heads to maintain adequate area coverage. Please note the Reactor Building averages for the duration of the project (projected running time 2-3 weeks) is not a true average and may be lower than normal.

Area	Total	> 1		> 5		> 25		> 100	
		N	%	N	%	N	%	N	%
Reactor Building	12308	1960	16	232	2	32	0.3	3	0
Recovery Comp. Room	1421	275	19	34	2	4	0.3	0	0
Pilot Plant	5424	14	0.3	3	0.1	2	0	1	0
General Area	5782	382	7	157	3	14	0.2	1	0
Parshall Flume	766	160	21	17	2.2	0	0	0	0

All readings greater than or equal to 100 ppm VCM are tabulated in Table IV. Three readings at or above 100 ppm occurred during this report period reflecting three separate incidents. One incident occurred in the Reactor Building affecting the first floor center aisle. One incident occurred in the Pilot Plant affecting "F" reactor. The remaining incident occurred in the General Area affecting the VCM tank car unloading platform.

R. A. Lojewski
R. A. Lojewski

TABLE I

REACTOR BUILDING

Monitoring Point

Period Covered

7-10/7-16-76

N

 $\bar{X}$ > 1 $\bar{X} \leq 5$ $\bar{X} \leq 25$ $\bar{X} \leq 100$

	N	$\bar{X}$	> 1	$\bar{X} \leq 5$	$\bar{X} \leq 25$	$\bar{X} \leq 100$
1 Center Aisle Column #2, 1st floor	654	0.3	30	13	0	0
2 Center Aisle Column #4, 1st floor	293	0.1	4	1	0	0
3 Center Aisle Column #6, 1st floor	660	0.5	48	7	2	1
4 #1 Slurry Transfer Pump, 1st floor	292	0.1	2	0	0	0
5 #2 Slurry Transfer Pump, 1st floor	665	0.2	48	4	0	0
6 DeFoamer Tanks, 1st floor	293	0.1	3	0	0	0
9 VCM Day Tank Area	660	0.3	39	8	1	0
0 Center Aisle Column #2, 2nd floor	707	1.0	125	24	8	0
1 Center Aisle Column #4, 2nd floor	294	0.1	2	0	0	0
2 Center Aisle Column #6, 2nd floor	686	0.5	81	13	2	0
3 Stripper #2 Platform, manhole, 2nd floor	710	0.9	178	21	2	0
4 Panel Board Column #7, 2nd floor	295	0	3	0	0	0
5 Stripper #1 Platform, manhole, 2nd floor	700	0.8	160	29	0	0
6 Knock-Out Pots, 2nd floor	293	0	0	0	0	0
7 Foreman's Desk	667	0.4	89	7	0	0
8 Dry Chemical Weigh-up Area	664	0.4	87	0	0	0
9 Stairwell in Hallway, 2nd floor	686	0.6	134	11	0	0
0 Weigh Tank Chip Basket Area	293	0	0	0	0	0
Total	9512	0.4	1033	138	15	1

RECOVERY COMPRESSOR ROOM

Monitoring Point

N

 $\bar{X}$ > 1 $\bar{X} \leq 5$ $\bar{X} \leq 25$ $\bar{X} \leq 100$

	N	$\bar{X}$	> 1	$\bar{X} \leq 5$	$\bar{X} \leq 25$	$\bar{X} \leq 100$
7 #1 Recovery System	689	0.6	95	16	1	0
8 #2 Recovery System	306	0.5	28	9	2	0
Total	995	0.	123	25	3	0

010419

R. A. Lojewski
4/7/76

TABLE
PILOT PLANT

Period Covered 7-10/7-16-76

Monitoring Point	N	$\bar{X}$	>1	>5	>25	>100
Strong Scott Dryer - Process Building	677	0	0	0	0	0
Boiler House	676	0	0	0	0	0
Pilot Plant Laboratory - Process Building	676	0	0	0	0	0
Centrifuge - Reactor Building	677	0	0	0	0	0
"F" Reactor - Reactor Building	679	0.1	4	2	2	1
Parshall Flume	766	0.4	160	17	0	0
Plastisol Tower - Reactor Building	678	<0.1	3	1	0	0
VCM Storage Area - Reactor Building	680	0	4	0	0	0
"E" Reactor - Reactor Building	678	<0.1	1	0	0	0
"B" & "C" Reactors - Reactor Building	679	0	2	0	0	0
* Total		5424	<0.1	14	3	2
						1

* less *2%*6

R. A. Lojewski
1/8/76

010420

TAB III
GENERAL AREA

Period Covered 7-10/7-16-76

Monitoring Point	N	$\bar{X}$	>1	>5	>25	>100
1 Truck Loading Platform	556	0	0	0	0	0
2 Quality Control Laboratory, West	564	0.2	17	8	1	0
3 Quality Control Laboratory, East	558	<0.1	3	1	0	0
4 Lunchroom	555	0	0	0	0	0
5 Bulk Loading Tower	557	0.1	3	1	0	0
5 Dryer Room	563	0.1	13	2	0	0
7 Bagging Room - Baggers Seat	556	<0.1	1	0	0	0
3 Maintenance Shop	557	0.1	3	0	0	0
3 VCM Transfer Pumps - Tank Farm	661	2.4	174	72	5	0
2 Tank Car Unloading Platform	656	1.6	168	73	8	1
Total	5782	0.5	382	157	14	1

R. A. Lojewski
1/8/76

010421

TABLE I

ALL EXCURSIONS AT OR GREATER THAN 100ppm UCM

PERIOD 7-10/7-16-76

DATE	TIME	AREA AFFECTED	REMARKS
7/15/76	0142	"F" REACTOR, PILOT PLANT	UNKNOWN
	0953	CENTER AISLE COLUMN #6, 1 ST FL. RX. BLDG.	
	2124	TANK CAR UNLOADING PLATFORM	UNLOADING UCM CAR

RAL
2-76

010422

PEERINGTON TIME-WEIGHTED EXPOSURE AVERAGES
CALCULATED FROM BENDIX MONITORING DATA

7/10/76 TO 7/16/76

TABLE V

JOB CLASSIFICATION

TWA

RESIN PLANT

POLIFORMAN W AIR	.5
POLIFORMAN WO AIR	.6
SHIFT FORMAN W AIR	.4
SHIFT FORMAN WO AIR	.8
REACTION OPER-CHRG W AIR	.7
REACTION OPER-CHRG WO AIR	.8
REACTION OPER-DUMPG W AIR	.5
REACTION OPER-DUMPG WO AIR	1.5
REACTION OPER-RELIEF W AIR	.5
REACTION OPER-RELIEF WO AIR	1.5
UTILITY OPER W AIR	.3
UTILITY OPER WO AIR	3.7
DATER OPER	.1
WAREHOUSE SUPERVISOR	.1
WAREHOUSEMAN-BAGGER	.1

GENERAL AREA

MAINTENANCE FORMAN	.2
MECHANIC SHIFT	.7
MECHANIC DAY	.6
BOILER OPER	.0
MAINTENANCE STOREKEEPER	.2
MAINTENANCE CLERK	.2
EFFLUENT MAN W AIR	.0
EFFLUENT MAN WO AIR	.0
QC TECHNICIAN	.1
QC SUPERVISOR	.1

PILSI PLANT

GROUP LEADER	.1
ENGINEER	.1
TECHNOLOGIST	.1
TECHNICIAN W AIR	.0
TECHNICIAN WO AIR	.1
MAINT TECHNICIAN	.0

Raymond
7/27/76

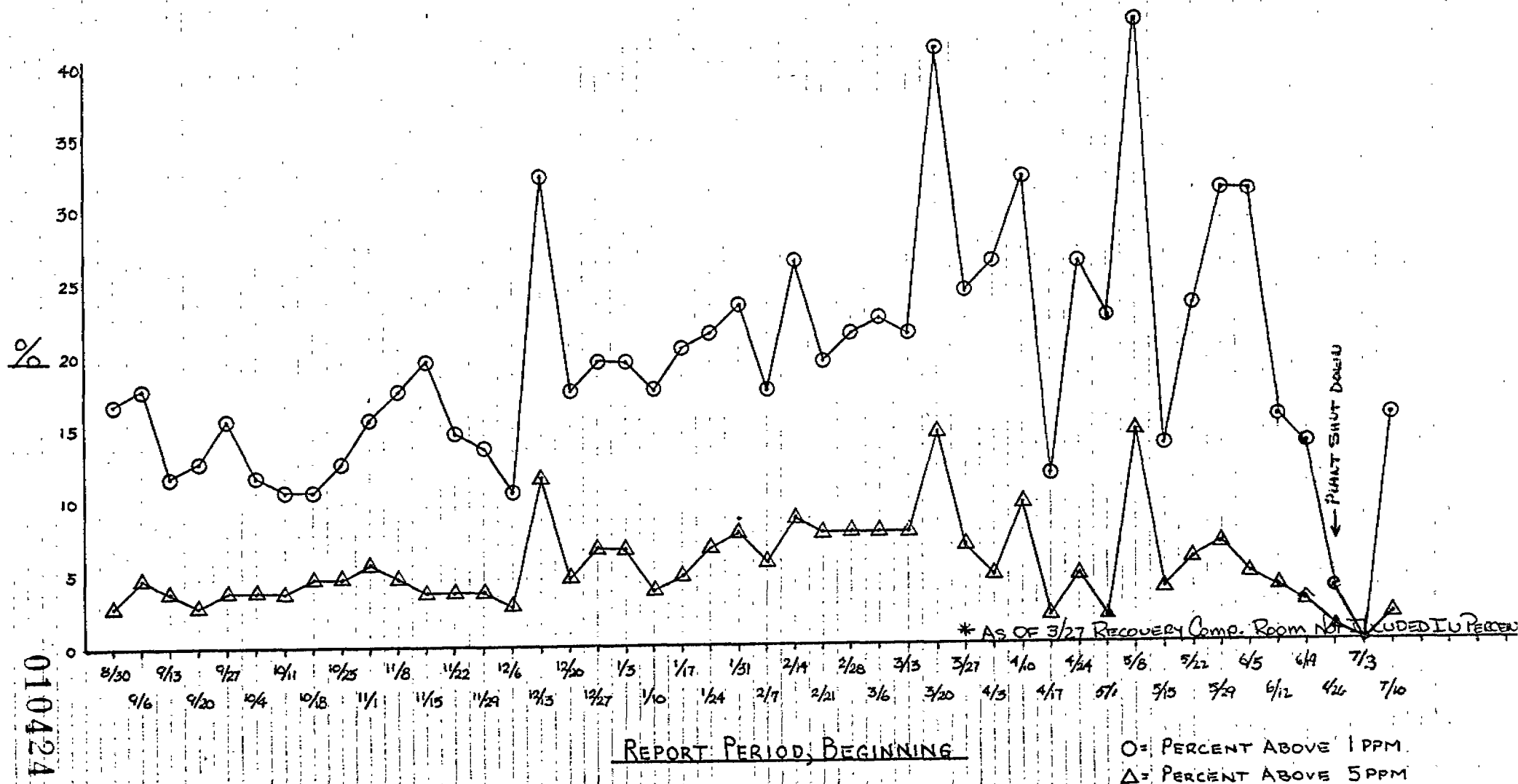
PH # 1

FLEMINGTON BENDIX MONITORING SYSTEM

PERCENT OF READINGS MONITORED ABOVE

1 PPM AND 5 PPM

REACTOR BUILDING

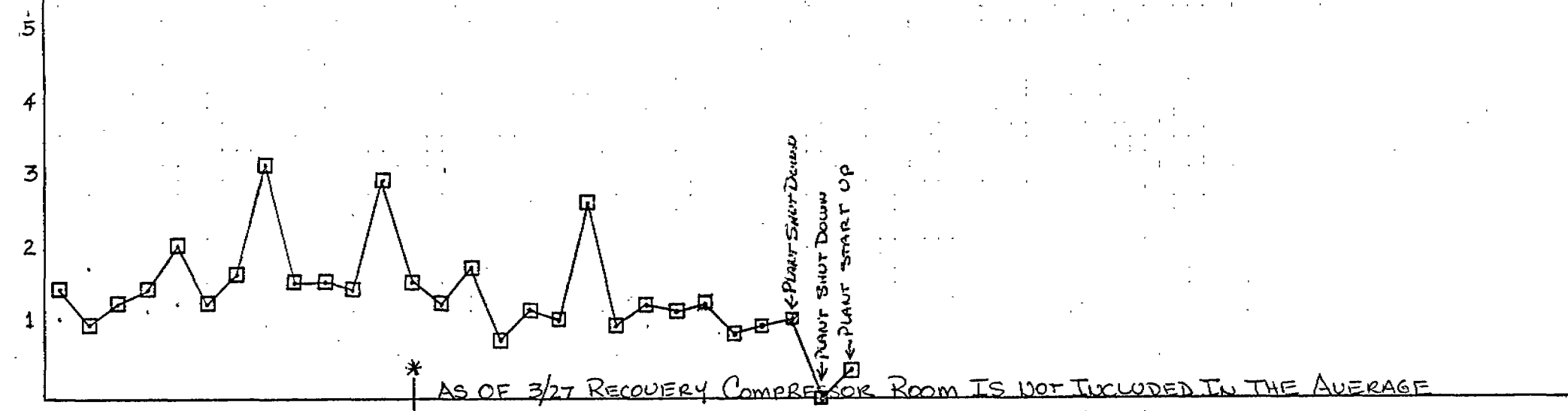


GRAPH #2
WEEKLY PLANT EXPOSURE AVERAGES
FLEMINGTON

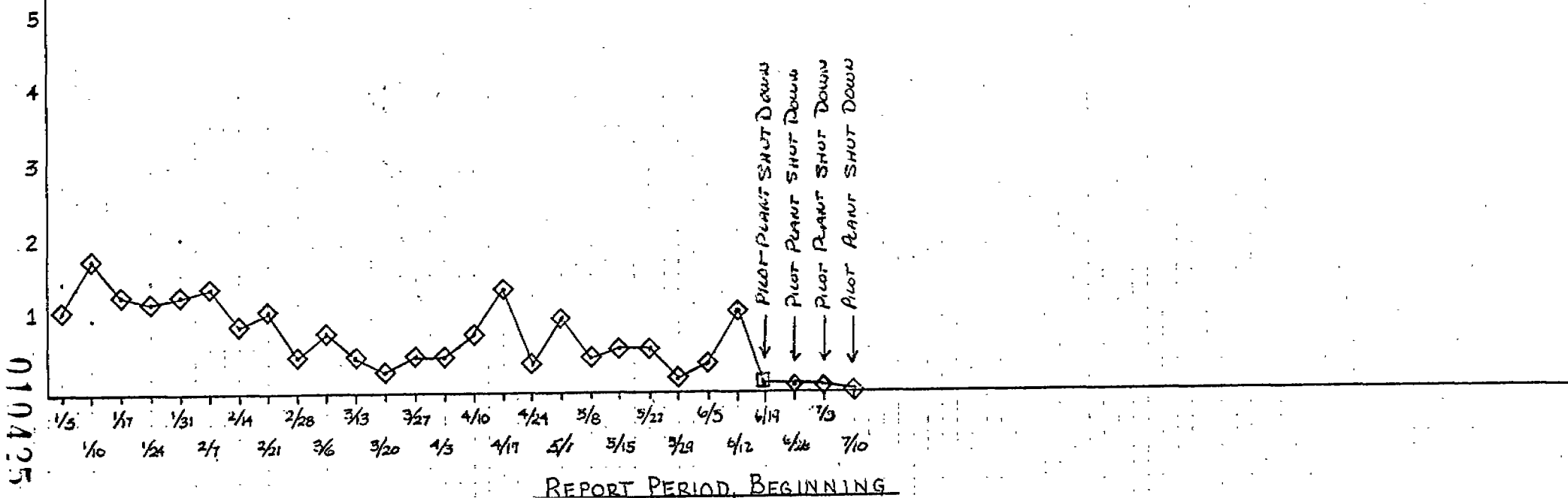
PM
/CM

$\bar{x}$

REACTOR BUILDING



PILOT PLANT



Bendix Monitoring Data Analysis Flemington Plant

July 10, 1976 to July 16, 1976

Point No.	Point Location	Readings (PPM VCM)		
		Total	> 5	> 25
	The reason for low readings was, the Plant was in the process of starting up from a two week shutdown and therefore wasn't up to full operating capacity for this time period.			

010426