

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

TO J. T. Sweeney AT Flemington DATE May 31, 1977

FROM P. D. Ruane AT Flemington COPY TO W. D. Bord
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SUBJECT VCM Exposure Data and TWA - Flemington Plant
Area Monitoring System
May 14, 1977 to May 20, 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 100% utilization. The four G. C. 's were on Bendix control.

Area	Total	<u>> 1</u>		<u>> 5</u>		<u>> 25</u>		<u>> 100</u>	
		N	%	N	%	N	%	N	%
Reactor Building	2,460	113	5	17	1	1	0.04	0	0
Recovery Comp. Room	328	66	20	4	1.2	0	0	0	0
Pilot Plant	1,104	19	1.7	0	0	0	0	0	0
General Area	1,650	27	1.6	9	0.5	0	0	0	0
Parshall Flume	138	6	4.3	0	0	0	0	0	0

All readings greater than or equal to 100 ppm VCM are tabulated in Table IV. One reading at or above 100 PPM occurred this report period, reflecting one incident. No incidents occurred in the Reactor Building or in the Recovery Compressor Room during this report period. One incident occurred in the General Area affecting the tank car unloading platform. No incidents occurred in the Pilot Plant during this report period.

Paul D. Ruane

P. D. Ruane

PDR:ms

008901

TABLE I
GENERAL AREA

Period Covered 5-14/5-20-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Truck Loading Platform	165	<0.1	1	0	0	0
Quality Control Laboratory, West	165	0.3	9	1	0	0
Quality Control Laboratory, East	165	<0.1	0	0	0	0
Lunchroom	165	0	0	0	0	0
Bulk Loading Tower	165	0	0	0	0	0
Dryer Room	165	0	0	0	0	0
Bagging Room - Baggers Seat	165	0	0	0	0	0
Maintenance Shop	165	<0.1	0	0	0	0
VCM Transfer Pumps - Tank Farm	165	0.1	4	2	0	0
Tank Car Unloading Platform	165	0.5	13	6	0	0
TOTAL	1650	0.1		9	0	0

P. D. Ruane
3/10/77

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REACTOR BUILDING

Monitoring Point

Period Covered

5-14/5-20-77

	N	$\bar{X}$	> 1	> 5	> 25	> 100
Center Aisle Column #2, 1st floor	164	0.1	1	0	0	0
Center Aisle Column #4, 1st floor	164	0.2	1	1	0	0
Center Aisle Column #6, 1st floor	164	0.5	1	1	1	0
#1 Slurry Transfer Pump, 1st floor	164	0.1	1	1	0	0
#2 Slurry Transfer Pump, 1st floor	SPECIAL	←				→
DeFoamer Tanks, 1st floor	SPECIAL	←				→
VCM Day Tank Area	164	0.1	1	1	0	0
Center Aisle Column #2, 2nd floor	164	0.6	24	2	0	0
Center Aisle Column #4, 2nd floor	164	0.8	25	6	0	0
Center Aisle Column #6, 2nd floor	164	0.4	8	2	0	0
Stripper #2 Platform, manhole, 2nd floor	164	0.4	14	1	0	0
Panel Board Column #7, 2nd floor	164	0.2	7	1	0	0
Stripper #1 Platform, manhole, 2nd floor	164	0.3	12	1	0	0
Knock-Out Pots, 2nd floor	164	0.2	7	0	0	0
Foreman's Desk	164	0.2	4	0	0	0
Dry Chemical Weigh-up Area	164	0.2	5	0	0	0
Stairwell in Hallway, 2nd floor	SPECIAL	←				→
Weigh Tank Chip Basket Area	164	0.1	2	0	0	0
Total	2,460	0.3	113	17	1	0

RECOVERY COMPRESSOR ROOM

Monitoring Point

	N	$\bar{X}$	> 1	> 5	> 25	> 100
#1 Recovery System	164	0.8	29	1	0	0
#2 Recovery System	164	0.8	37	3	0	0
Total	328	0.8	66	4	0	0

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3/10/77

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PILOT PLANT

Period Covered

5-14/5-20-77

Monitoring Point

N

$\bar{X}$

> 1

> 5

> 25

> 100

1 Strong Scott Dryer - Process Building	138	0	0	0	0	0
2 Boiler House	SPECIAL	←—————→				
3 Pilot Plant Laboratory - Process Building	138	0	0	0	0	0
4 Centrifuge - Reactor Building	138	<0.1	1	0	0	0
5 "F" Reactor - Reactor Building	138	0.2	5	0	0	0
6 Parshall Flume	138	0.4	6	0	0	0
7 Plastisol Tower- Reactor Building	138	0.1	4	0	0	0
8 VCM Storage Area - Reactor Building	138	0.1	3	0	0	0
9 "E" Reactor - Reactor Building	138	0.1	6	0	0	0
0 "B" & "C" Reactors - Reactor Building	138	0	0	0	0	0
* Total	1104	0.1	19	0	0	0

* less *32 & *36

P. D. Ruane

3/10/77

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TABL V

ALL EXCURSIONS AT OR GREATER THAN 100 ppm VCM

PERIOD

5-14/5-20-77

DATE

TIME

AREA AFFECTED

REMARKS

5-18-77

2345

TANK CAR UNLOADING PLATFORM.

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P. D. R. 2/77

FLEMINGTON, TIME-WEIGHTED, EXPOSURE, AVERAGES
CALCULATED, FROM, BENDIX, MONITORING, DATA

05/14/77, TO, 05/20/77

CLASSIFICATION.....TWA

TABLE V

RESIN, PLANT

POLYFORMAN, W. AIR.....	.2
POLYFORMAN, WD. AIR.....	.3
SHIFT, FORMAN, W. AIR.....	1.
SHIFT, FORMAN, WD. AIR.....	1.1
REACTOR, OPER-CHRG, W. AIR.....	.3
REACTOR, OPER-CHRG, WD. AIR.....	.3
REACTOR, OPER-DUMP6, W. AIR.....	.2
REACTOR, OPER-DUMP6, WD. AIR.....	1.1
REACTOR, OPER-RELIEF, W. AIR.....	.2
REACTOR, OPER-RELIEF, WD. AIR.....	1.2
UTILITY, OPER, W. AIR.....	.2
UTILITY, OPER, WD. AIR.....	3.5
DRYER, OPER.....	.0
WAREHOUSE, SUPERVISOR.....	.1
WAREHOUSEMAN-BAGGER.....	.1

GENERAL, AREA

MAINTENANCE, FORMAN.....	.1
MECHANIC, SHIFT.....	.4
MECHANIC, DAY.....	.3
BOILER, OPER.....	.1
MAINTENANCE, STOREKEEPER.....	.2
MAINTENANCE, CLERK.....	.1
EFFLUENT, MAN, W. AIR.....	.2
EFFLUENT, MAN, WD. AIR.....	.3
QC, TECHNICIAN.....	.1
QC, SUPERVISOR.....	.1

PILOT, PLANT

GROUP, LEADER.....	.3
ENGINEER.....	.2
TECHNOLOGIST.....	.1
TECHNICIAN, W. AIR.....	.1
TECHNICIAN, WD. AIR.....	.1
MAINT, TECHNICIAN.....	.1

Paul D. Ruane
5-31-77

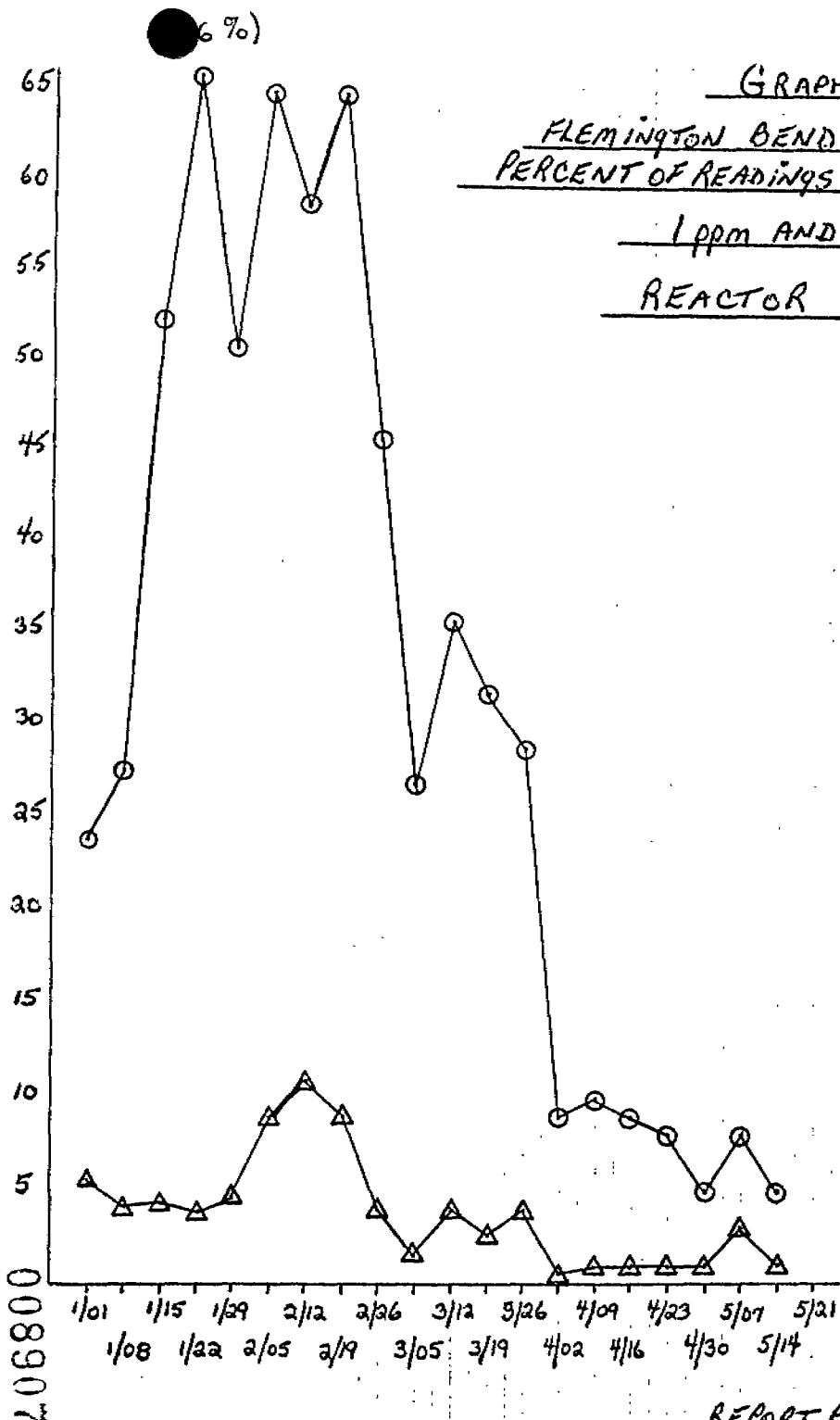
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GRAPH #1

FLEMINGTON BENDIX MONITORING SYSTEM
PERCENT OF READINGS MONITORED ABOVE

1 ppm AND 5 ppm

REACTOR BUILDING



REPORT PERIOD, BEGINNING

O = PERCENT ABOVE 1 ppm

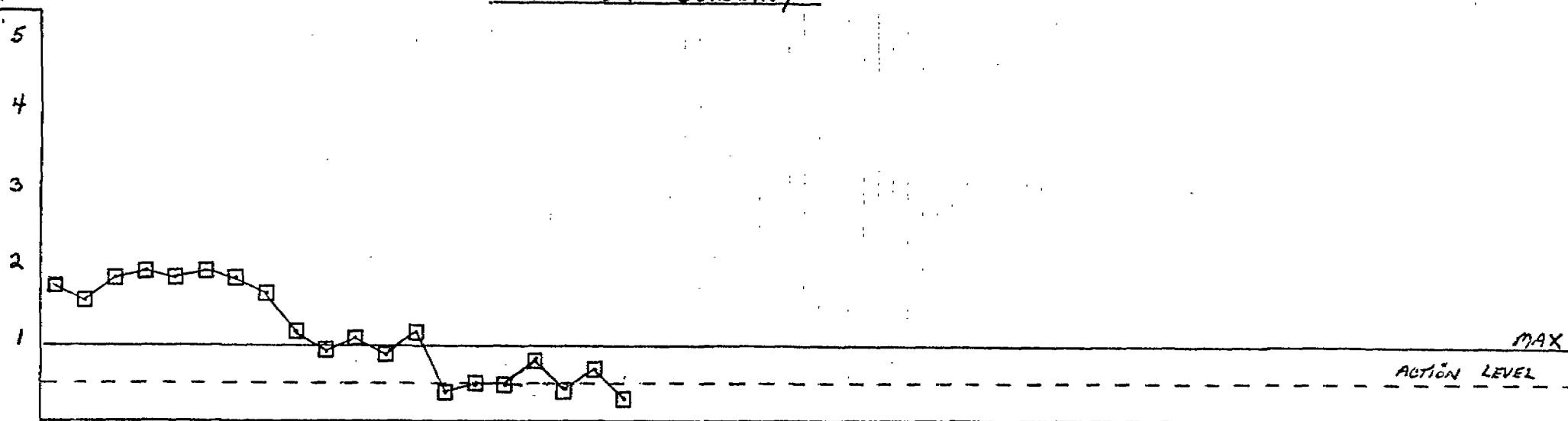
Δ = PERCENT ABOVE 5 ppm

GRA 2
WEEKLY PLANT EXPOSURE AVERAGES

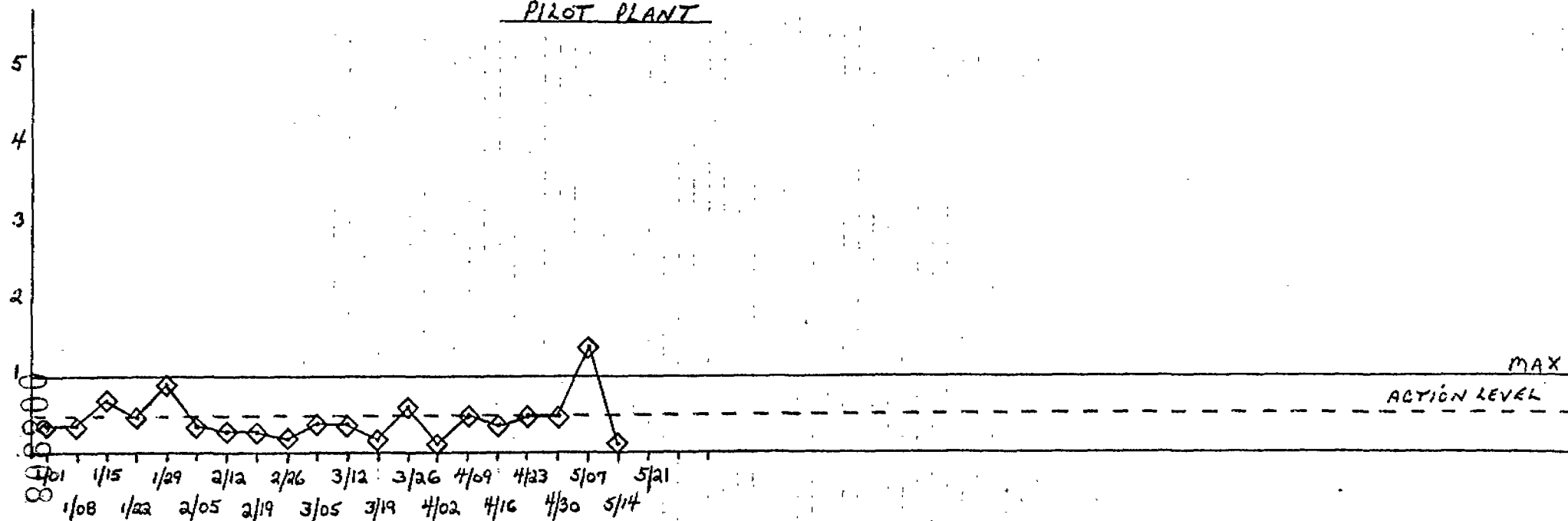
FLEMINGTON

REACTOR BUILDING

mm
cm
in



PILOT PLANT



REPORT PERIOD BEGINNING

Bendix D Comments for the Period of May 14, 1977 to May 20, 1977

Reactor Buil

- 1) CAR submitted and approved for upgrading the
reactor system. This project will help reduce
the cent. vels.

W. D. Bord (

WDB:ms

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