

INTER-OFFICE MEMO

TENNECO CHEMICALS, INC.

To J. T. Sweeney ✓

At Flemington

DATE January 11, 1978

FROM P. D. Ruane

At Flemington

COPY TO W. D. Bord

SUBJECT VCM Exposure Data and TWA - Flemington Plant
Area Monitoring System
 December 03, 1977 to December 09, 1977

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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. 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 computer control.

Area	Total	<u>> 1</u>		<u>≥ 5</u>		<u>≥ 25</u>		<u>≥ 100</u>	
		N	%	N	%	N	%	N	%
Reactor Building	7,458	707	9.5	31	0.4	0	0	0	0
Recovery Comp. Room	1,066	207	19.4	1	0.1	0	0	0	0
Pilot Plant	4,254	266	6.3	10	0.2	1	0.02	0	0
General Area	5,327	125	2.3	17	0.3	2	0.04	1	0.02
Parshall Flume	532	150	28.2	39	7.3	1	0.2	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. No incidents occurred in the Pilot Plant during this report period. One incident occurred in the General Area affecting the tank car unloading platform.



Paul D. Ruane

Bendix Data Comments for the Period of
December 3, 1977 to December 9, 1977

VCM levels in the Reactor Building remained
low (.4 ppm).


W. D. Bord

TABLE I
GENERAL AREA

Period Covered 12-03/12-09-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Truck Loading Platform	532	0.1	4	1	0	0
Quality Control Laboratory, West	533	0.2	18	1	1	0
Quality Control Laboratory, East	532	0.1	9	0	0	0
Unchroom	533	0	0	0	0	0
Bulk Loading Tower	533	0	0	0	0	0
Prayer Room	533	0	0	0	0	0
Bagging Room - Baggers Seat	533	0	0	0	0	0
Maintenance Shop	533	0	0	0	0	0
CM Transfer Pumps - Tank Farm	533	0	0	0	0	0
Tank Car Unloading Platform	532	1.0	94	15	1	1

TOTAL 5327 0.1 125 17 2 1

P. D. Ruane
11/14/77

TABLE II
REACTOR BUILDING

Period Covered 12-03/12-09-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Enter Aisle Column #2, 1st floor	532	0.2	18	1	0	0
Enter Aisle Column #4, 1st floor	532	0.3	43	4	0	0
Enter Aisle Column #6, 1st floor	533	0.3	29	1	0	0
#1 Slurry Transfer Pump, 1st floor	533	0.4	44	1	0	0
#2 Slurry Transfer Pump, 1st floor	SPECIAL	<				>
Foamer Tanks, 1st floor	SPECIAL	<				>
CM Day Tank Area	SPECIAL	<				>
Enter Aisle Column #2, 2nd floor	533	0.5	59	1	0	0
Enter Aisle Column #4, 2nd floor	533	0.7	79	6	0	0
Enter Aisle Column #6, 2nd floor	533	0.5	63	2	0	0
Stripper #2 Platform, manhole, 2nd floor	532	0.6	63	4	0	0
Panel Board Column #7, 2nd floor	533	0.5	70	2	0	0
Stripper #1 Platform, manhole, 2nd floor	533	0.5	56	3	0	0
Knock-Out Pots, 2nd floor	533	0.5	70	3	0	0
Foreman's Desk	532	0.3	36	1	0	0
Dry Chemical Weigh-up Area	533	0.4	59	2	0	0
Stairwell in Hallway, 2nd floor	SPECIAL	<				>
Weigh Tank Chip Baskey Area	533	0.1	18	0	0	0

TOTAL 7458 0.4 707 31 0 0

RECOVERY COMPRESSOR ROOM

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
#1 Recovery System	533	0.4	53	0	0	0
#2 Recovery System	533	0.7	154	1	0	0

TOTAL 1066 0.6 207 1 0 0

TABLE I
PILOT PLANT

Period Covered 12-03/12-09-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Strong Scott Dryer - Process Building	531	< 0.1	2	0	0	0
Boiler House	SPECIAL	←				→
Pilot Plant Laboratory - Process Building	531	0	2	0	0	0
Centrifuge - Reactor Building	532	0.1	3	0	0	0
"F" Reactor - Reactor Building	532	0.5	49	6	1	0
Parshall Flume	532	1.4	150	39	1	0
Plastisol Tower - Reactor Building	532	0.3	35	1	0	0
VCM Storage Area - Reactor Building	532	0.2	2	0	0	0
"E" Reactor - Reactor Building	532	0.5	83	1	0	0
"B" & "C" Reactors - Reactor Building	532	0.5	90	2	0	0
* less *32 & *36)	* TOTAL	4254	0.3	266	10	1
						0

P. D. Ruane
11/14/77

008672

ALL EXCURSIONS AT OR GR. ~~PER~~ THAN 100 ppm VCM

PERIOD

12-03/12-09-77

REMARKS

DATETIMEAREA AFFECTED

12-09-77

1602

TANK CAR UNLOADING PLATFORM.

FLEMINGTON TIME-WEIGHTED EXPOSURE AVERAGES
CALCULATED FROM BENLIX MONITORING DATA

12/03/77 TO 12/09/77

JOB CLASSIFICATION

TWA

TABLE V

RESIN PLANT

POLYFORMAN W AIR	.2
POLYFORMAN WO AIR	.3
SHIFT FORMAN W AIR	.2
SHIFT FORMAN WO AIR	.3
REACTOR OPER-CHRG W AIR	.4
REACTOR OPER-CHRG WO AIR	.4
REACTOR OPER-DUMPG W AIR	.2
REACTOR OPER-DUMPG WO AIR	1.2
REACTOR OPER-RELIEF W AIR	.3
REACTOR OPER-RELIEF WO AIR	1.3
UTILITY OPER W AIR	.2
UTILITY OPER WO AIR	2.2
DRYER OPER	1.0
WAREHOUSE SUPERVISOR	.1
WAREHOUSEMAN-BAGGER	.1
RELIEF OPER	.0

GENERAL AREA

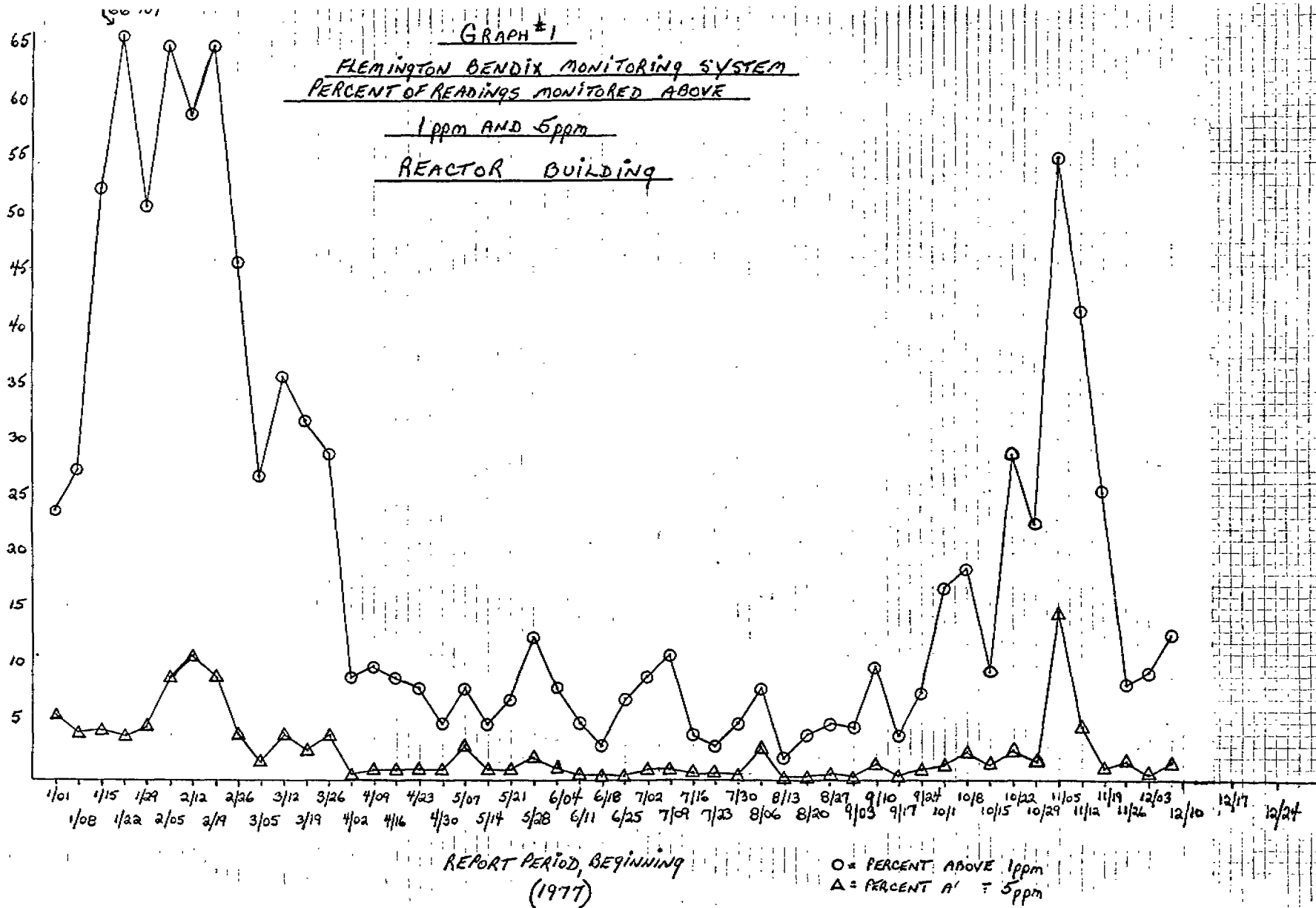
MAINTENANCE FORMAN	.1
MECHANIC SHIFT	.3
MECHANIC DAY	.2
FOILER OPER	.1
MAINTENANCE STOREKEEPER	.2
MAINTENANCE CLERK	.1
EFFLUENT MAN W AIR	.2
EFFLUENT MAN WO AIR	.3
QC TECHNICIAN	.1
QC SUPERVISOR	.1

PILOT PLANT

GROUP LEADER	.3
ENGINEER	.3
TECHNOLOGIST	.2
TECHNICIAN W AIR	.2
TECHNICIAN WO AIR	.2
MAINT TECHNICIAN	.2

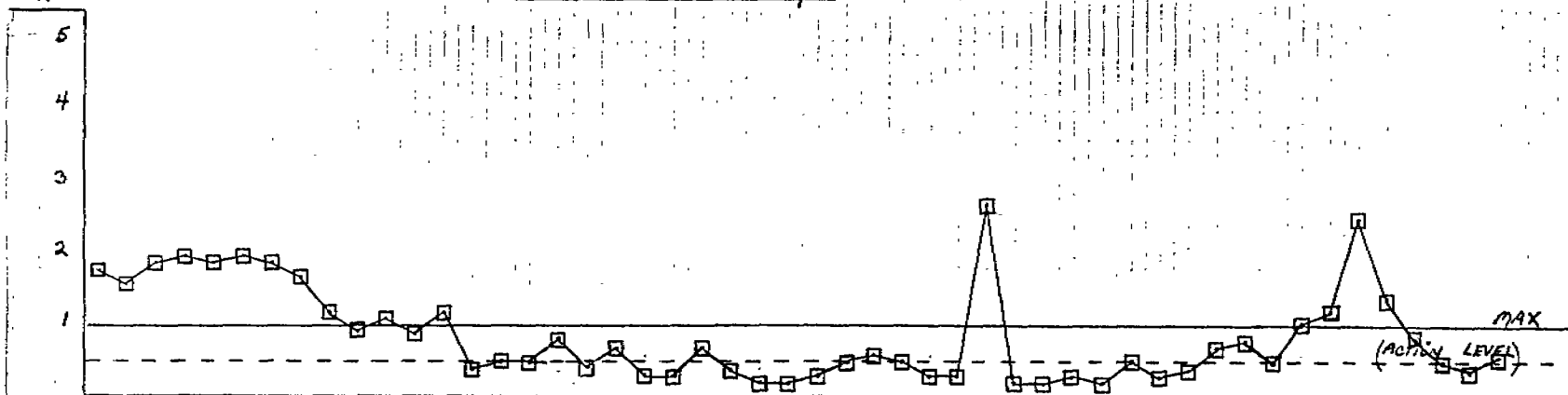
Paul Ruane
12-19-77

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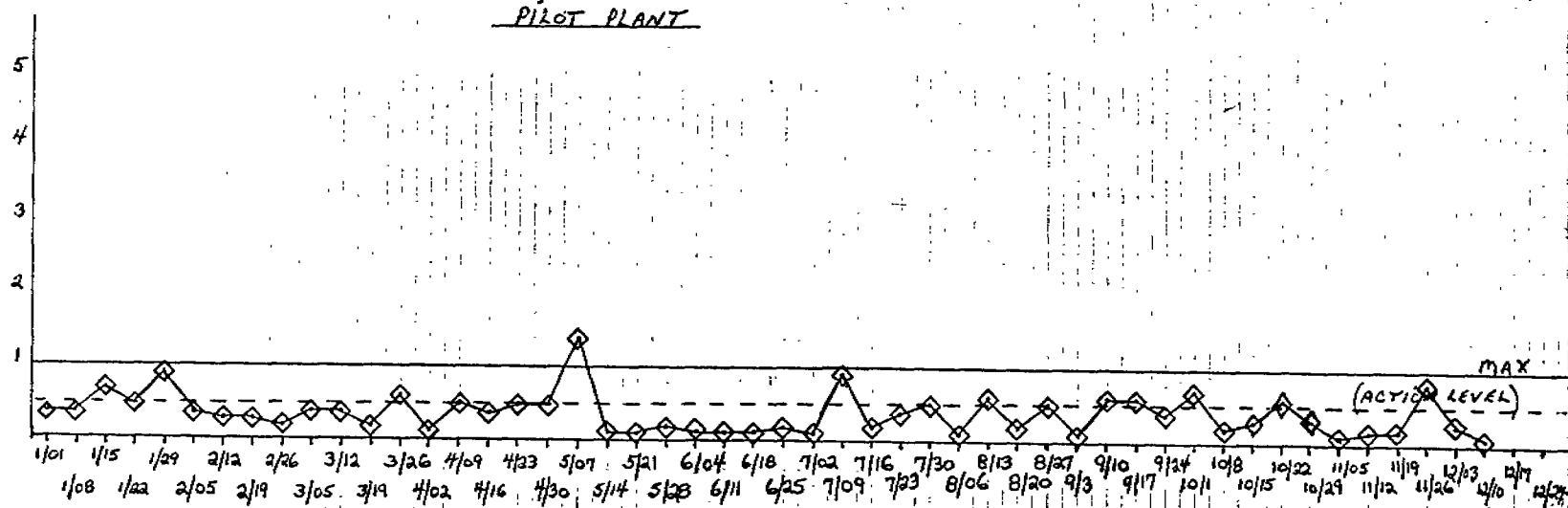


GRAPH 2
WEEKLY PLANT EXPOSURE AVERAGES
FLEMINGTON
REACTOR BUILDING

PPM
VCM
 $\bar{x}$



PILOT PLANT



RF-RT PERIOD, BEGINNING

P.D.R. 11/77

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