I-184

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

TO J. T. Sweeney AT Flemington DATE October 18, 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
September 24, 1977 to September 30, 1977

Attached are plant summaries (Tables I-III). Table IV lists all excursions at or above 100 ppm VCM 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	>1		>5		>25		>100	
		N	%	N	%	N	%	N	%
Reactor Building	8,635	661	7.7	86	1.0	8	0.1	3	0.03
Recovery Comp. Room	1,152	877	76	248	21.5	6	0.5	2	0.2
Pilot Plant	4,605	338	7.3	27	0.6	6	0.1	0	0
General Area	5,362	50	0.9	10	0.2	0	0	0	0
Parshall Flume	576	295	51	16	2.8	0	0	0	0

All readings greater than or equal to 100 ppm VCM are tabulated in Table IV. Five readings at or above 100 ppm occurred this report period reflecting four separate incidents. Three incidents occurred outside the Reactor Building affecting the VCM day tank area. No incidents occurred inside the Reactor Building. One incident occurred in the Recovery Compressor Room affecting #1 and #2 recovery systems. No incidents occurred in the Pilot Plant or in the General Area during this report period.

Paul D. Ruane

P. D. Ruane

PDR:ms

008953

TABLE I

GENERAL AREA

Period Covered 9-24/9-30-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Truck Loading Platform	536	<0.1	1	0	0	0
Quality Control Laboratory, West	537	<0.1	3	2	0	0
Quality Control Laboratory, East	536	0	1	0	0	0
Lunchroom	536	0	0	0	0	0
Bulk Loading Tower	536	0	1	0	0	0
Dryer Room	537	<0.1	1	0	0	0
Bagging Room - Baggers Seat	536	<0.1	1	0	0	0
Maintenance Shop	536	0	1	0	0	0
VCM Transfer Pumps - Tank Farm	536	0	0	0	0	0
Tank Car Unloading Platform	536	0.2	41	8	0	0
TOTAL	5,362	0.1	50	10	0	0

P. D. Ruane
3/10/77

REACTOR BUILDING

Monitoring Point

Period Covered 9-24/9-30-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Center Aisle Column #2, 1st floor	576	0.2	10	2	1	0
Center Aisle Column #4, 1st floor	576	0.3	40	4	1	0
Center Aisle Column #6, 1st floor	575	0.1	13	1	0	0
#1 Slurry Transfer Pump, 1st floor	576	0.2	25	1	0	0
#2 Slurry Transfer Pump, 1st floor	SPECIAL	←				→
DeFoamer Tanks, 1st floor	SPECIAL	←				→
VCM Day Tank Area	575	1.0	32	8	3	3
Center Aisle Column #2, 2nd floor	576	0.9	124	23	0	0
Center Aisle Column #4, 2nd floor	576	0.9	111	22	1	0
Center Aisle Column #6, 2nd floor	576	0.4	35	5	1	0
Stripper #2 Platform, manhole, 2nd floor	575	0.6	92	9	0	0
Panel Board Column #7, 2nd floor	576	0.3	28	1	0	0
Stripper #1 Platform, manhole, 2nd floor	576	0.4	54	3	1	0
Knock-Out Pots, 2nd floor	576	0.3	30	2	0	0
Foreman's Desk	575	0.3	19	3	0	0
Dry Chemical Weigh-up Area	576	0.3	36	2	0	0
Stairwell in Hallway, 2nd floor	SPECIAL	←				→
Weigh Tank Chip Basket Area	575	0.1	12	0	0	0
Total	8,635	0.4	661	86	8	3

RECOVERY COMPRESSOR ROOM

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
#1 Recovery System	576	4.4	453	189	4	1
#2 Recovery System	576	2.8	424	59	2	1
Total	1,152	3.6	877	248	6	2

P. D. Ruane
3/10/77

TABLE XXX

PILOT PLANT

Period Covered 9-24/9-30-77

Monitoring Point	N	$\bar{X}$	> 1	$\overline{>}$ 5	$\overline{>}$ 25	$\overline{>}$ 100
Strong Scott Dryer - Process Building	575	<0.1	3	0	0	0
Boiler House	SPECIAL	←				→
Pilot Plant Laboratory - Process Building	576	<0.1	4	1	0	0
Centrifuge - Reactor Building	576	0.6	72	10	0	0
"F" Reactor - Reactor Building	575	0.4	50	0	0	0
Parshall Flume	576	1.4	295	16	0	0
Plastisol Tower- Reactor Building	576	0.4	58	2	0	0
VCM Storage Area - Reactor Building	576	0.3	39	1	0	0
"E" Reactor - Reactor Building	576	0.9	59	10	6	0
"B" & "C" Reactors - Reactor Building	575	0.4	53	3	0	0
* Total	4605	0.4	338	27	6	0

(* less #32 & #36)

P. D. Ruane
3/10/77

TABLE IV

ALL EXCURSIONS AT OR GRE..TER THA: ppm VCM

PERIOD 9-24/9-30-77

DATE	TIME	AREA AFFECTED	REMARKS
9-27-77	1250	VCM DAY TANK AREA	
9-29-77	0356	VCM DAY TANK AREA	
9-30-77	0311	#1 RECOVERY SYSTEM, (REC. C' 'ROOM)	
	0313	#2 " " (" " ")	
	0659	VCM DAY/TANK AREA	

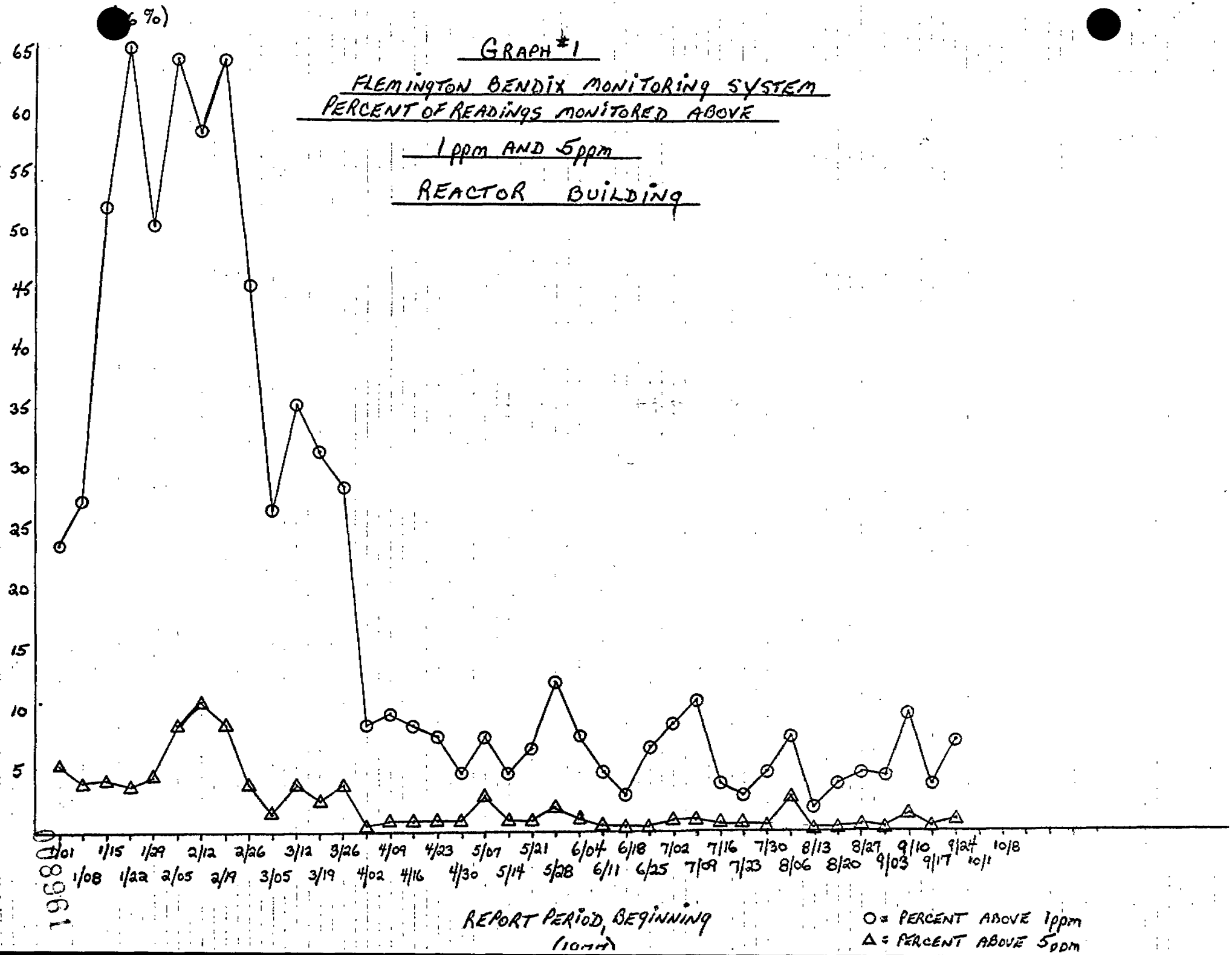
FLEMINGTON TIME-WEIGHTED EXPOSURE AVERAGES
CALCULATED FROM MEDIA MONITORING DATA

09/24/77 TO 09/30/77

JOB CLASSIFICATION	TWA
RESIN PLANT	
POLYFORMAN W AIR	.3
POLYFORMAN WO AIR	.7
SHIFT FORMAN W AIR	.2
SHIFT FORMAN WO AIR	1.6
REACTOR OPER-CHRG W AIR	.3
REACTOR OPER-CHRG WO AIR	.4
REACTOR OPER-DUMPG W AIR	.2
REACTOR OPER-DUMPG WO AIR	1.2
REACTOR OPER-RELIEF W AIR	.2
REACTOR OPER-RELIEF WO AIR	1.3
UTILITY OPER W AIR	.2
UTILITY OPER WO AIR	2.1
DRYER OPER	.1
WAREHOUSE SUPERVISOR	.1
WAREHOUSEMAN-BAGGER	.1
GENERAL AREA	
MAINTENANCE FORMAN	.2
MECHANIC SHIFT	.7
MECHANIC DAY	.4
BOILER OPER	.1
MAINTENANCE STOREKEEPER	.2
MAINTENANCE CLERK	.1
EFFLUENT MAN W AIR	.2
EFFLUENT MAN WO AIR	.3
CC TECHNICIAN	.0
CC SUPERVISOR	.0
PILOT PLANT	
GROUP LEADER	.3
ENGINEER	.3
TECHNOLOGIST	.2
TECHNICIAN W AIR	.2
TECHNICIAN WO AIR	.3
MAINT TECHNICIAN	.2

TABLE V

Paul D. Ruane
10/04/77



GRAPH #1

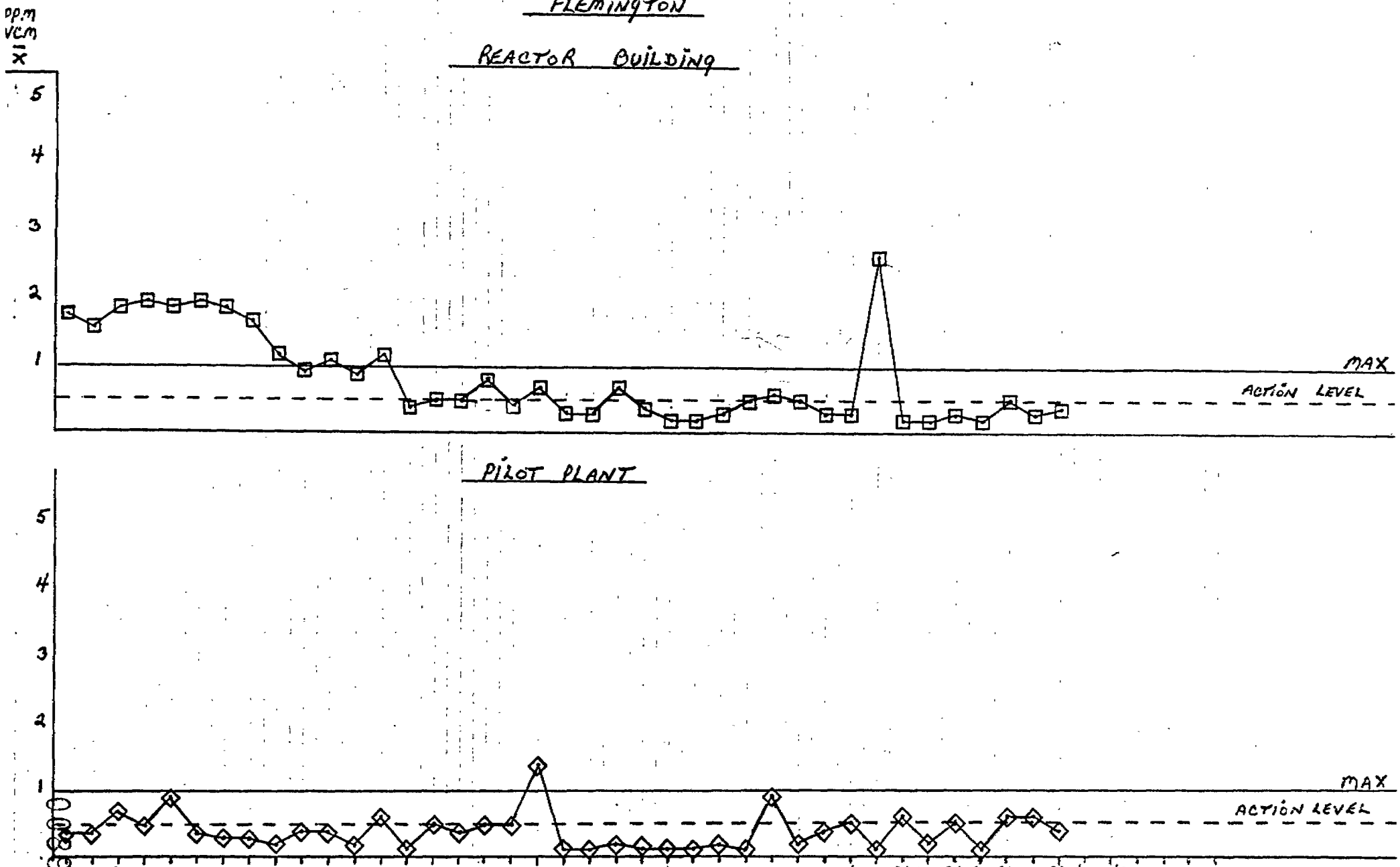
FLEMINGTON BENDIX MONITORING SYSTEM
PERCENT OF READINGS MONITORED ABOVE
1 ppm AND 5 ppm
REACTOR BUILDING

8961

GRAPH #2

WEEKLY PLANT EXPOSURE AVERAGES

FLEMINGTON



Bendix Data Comments for the Period of September 24th to September 30, 1977

Reactor Building

The reason for the increase in percent greater than 1 ppm was due to a gasket leak that has been corrected.

D. Bord