

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

To J. T. Sweeney ✓ AT Flemington DATE December 5, 1977

FROM P. D. Ruane AT Flemington COPY TO W. D. Bord

SUBJECT VCM Exposure Data and TWA - Flemington Plant
Area Monitoring System
 November 12, 1977 to November 18, 1977

C. N. Brown*
 W. R. Fogelsanger
 D. M. Hershkowitz
 F. W. Kanzler
 F. S. Klopp
 R. A. Lojewski
 P. M. Reed
 S. P. Robbins*
 M. K. Rosen
 C. F. Rothenbeck
 G. I. Rozand
 R. J. Young
 M. E. Wagshul

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	8,511	3,503	41.2	396	4.7	11	0.1	0	0
Recovery Comp. Room	1,216	1,088	89.5	377	31	0	0	0	0
Pilot Plant	4,863	57	1.2	12	0.2	4	0.1	0	0
General Area	6,079	156	2.6	26	0.4	3	0.05	0	0
Parshall Flume	608	83	13.7	0	0	0	0	0	0

All readings greater than or equal to 100 ppm VCM are tabulated in Table IV. No readings at or above 100 ppm occurred during this report period.

Paul D. Ruane

Paul D. Ruane

TABLE I

GENERAL AREA

Period Covered

11-12/11-18-77

Monitoring Point

N

 $\bar{X}$

> 1

> 5

> 25

> 100

Truck Loading Platform	608	0	2	0	0	0
Quality Control Laboratory, West	608	0.4	53	4	0	0
Quality Control Laboratory, East	607	0.3	35	3	1	0
Lunchroom	608	<0.1	2	1	0	0
Bulk Loading Tower	608	0	0	0	0	0
Dryer Room	608	0	1	0	0	0
Bagging Room - Baggers Seat	608	0	0	0	0	0
Maintenance Shop	608	0	0	0	0	0
JCM Transfer Pumps - Tank Farm	608	<0.1	3	0	0	0
Tank Car Unloading Platform	608	0.6	60	18	2	0
TOTAL	6,079	0.2	156	26	3	0

P. D. Ruane
11/14/77

009119

TABLE

REACTOR BUILDING

Period Covered

11-12/11-18-77

Monitoring Point

N

 $\bar{X}$

> 1

 ≥ 5 ≥ 25 ≥ 100

Monitoring Point	N	$\bar{X}$	> 1	≥ 5	≥ 25	≥ 100
Center Aisle Column #2, 1st floor	608	0.3	51	0	0	0
Center Aisle Column #4, 1st floor	608	0.8	130	20	0	0
Center Aisle Column #6, 1st floor	608	0.7	140	0	0	0
#1 Slurry Transfer Pump, 1st floor	608	0.8	171	3	0	0
#2 Slurry Transfer Pump, 1st floor	SPECIAL	←				→
DeFoamer Tanks, 1st floor	SPECIAL	←				→
VCM Day Tank Area	SPECIAL	←				→
Center Aisle Column #2, 2nd floor	608	2.3	294	83	5	0
Center Aisle Column #4, 2nd floor	608	2.1	374	53	1	0
Center Aisle Column #6, 2nd floor	607	1.0	183	1	1	0
Stripper #2 Platform, manhole, 2nd floor	608	2.8	443	88	4	0
Panel Board Column #7, 2nd floor	608	1.6	364	36	0	0
Stripper #1 Platform, manhole, 2nd floor	608	1.9	359	45	0	0
Knock-Out Pots, 2nd floor	608	1.4	322	18	0	0
Foreman's Desk	608	1.4	322	16	0	0
Dry Chemical Weigh-up Area	608	1.5	294	33	0	0
Stairwell in Hallway, 2nd floor	SPECIAL	←				→
Weigh Tank Chip Baskey Area	608	0.3	56	0	0	0
TOTAL	8,511	1.4	3,503	396	11	0

RECOVERY COMPRESSOR ROOM

Monitoring Point

N

 $\bar{X}$

> 1

 ≥ 5 ≥ 25 ≥ 100

Monitoring Point	N	$\bar{X}$	> 1	≥ 5	≥ 25	≥ 100
#1 Recovery System	608	3.8	550	190	0	0
#2 Recovery System	608	3.8	538	187	0	0
TOTAL	1,216	3.8	1,088	377	0	0

P. D. Ruane
11/14/77

000100

TABLE I
PILOT PLANT

Period Covered 11-12/11-18-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Strong Scott Dryer - Process Building	608	0.1	8	1	0	0
Boiler House	SPECIAL	←				→
Pilot Plant Laboratory - Process Building	608	<0.1	5	1	0	0
Centrifuge - Reactor Building	607	<0.1	3	1	0	0
"F" Reactor - Reactor Building	608	0.1	6	1	0	0
Parshall Flume	608	0.4	83	0	0	0
Plastisol Tower - Reactor Building	608	0.2	5	0	0	0
VCM Storage Area - Reactor Building	608	0.1	5	2	1	0
"E" Reactor - Reactor Building	608	0.3	12	3	2	0
"B" & "C" Reactors - Reactor Building	608	0.2	13	3	1	0
(* less *32 & *36) * TOTAL	4863	0.2	57	12	4	0

P. D. Ruane
11/14/77

009121

TABLE IV

ALL EXCURSIONS AT OR GREATER THAN 100 ppm VCM

PERIOD

11/12/11-18-77

DATETIMEAREA AFFECTEDREMARKS

No Readings at or above 100ppm vcm during this report period.

Paul D. Ruane

009122

CALCULATED FROM BENDIX MONITORING DATA

11/12/77 TO 11/18/77

JOB CLASSIFICATION

TWA

HESIN PLANT

TABLE V

POLYFORMAN W AIR	.7
POLYFORMAN WO AIR	1.1
SHIFT FORMAN W AIR	.4
SHIFT FORMAN WO AIR	1.8
REACTOR OPER-CHRG W AIR	1.2
REACTOR OPER-CHRG WO AIR	1.2
REACTOR OPER-DUMPG W AIR	.7
REACTOR OPER-DUMPG WO AIR	1.9
REACTOR OPER-RELIEF W AIR	.8
REACTOR OPER-RELIEF WO AIR	1.9
UTILITY OPER W AIR	.6
UTILITY OPER WO AIR	2.6
DRYER OPER	.1
WAREHOUSE SUPERVISOR	.1
WAREHOUSEMAN-BAGGER	.1
RELIEF OPER	0.1

GENERAL AREA

MAINTENANCE FORMAN	.1
MECHANIC SHIFT	1.2
MECHANIC DAY	.8
BOILER OPER	.1
MAINTENANCE STOREKEEPER	.2
MAINTENANCE CLERK	.1
EFFLUENT MAN W AIR	.2
EFFLUENT MAN WO AIR	.3
QC TECHNICIAN	.3
QC SUPERVISOR	.2

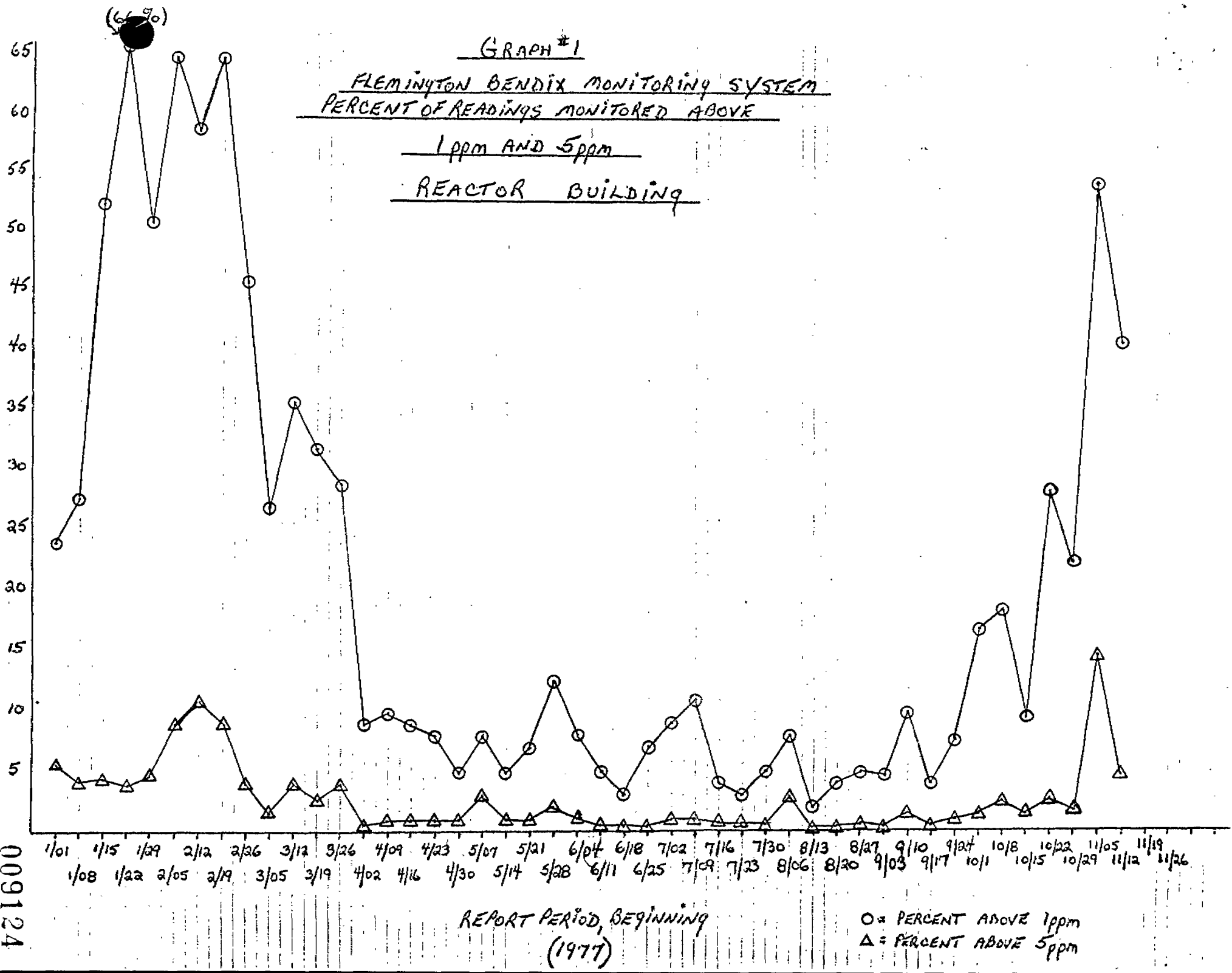
PILOT PLANT

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

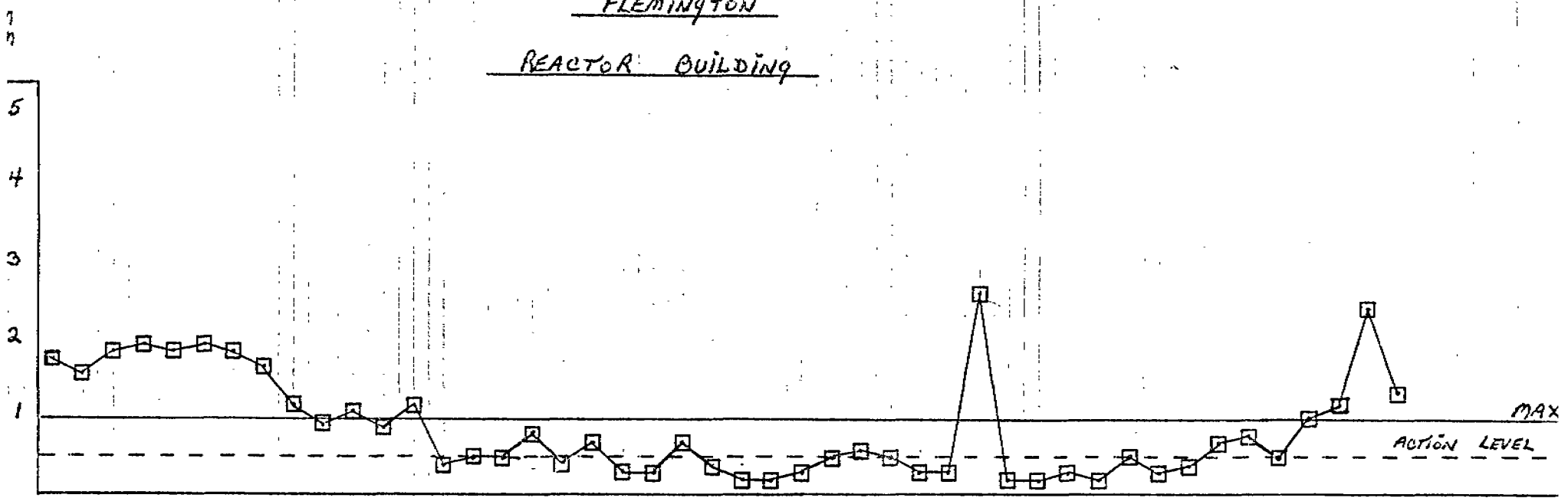
Paul J. Rusne
11-29-77

009123

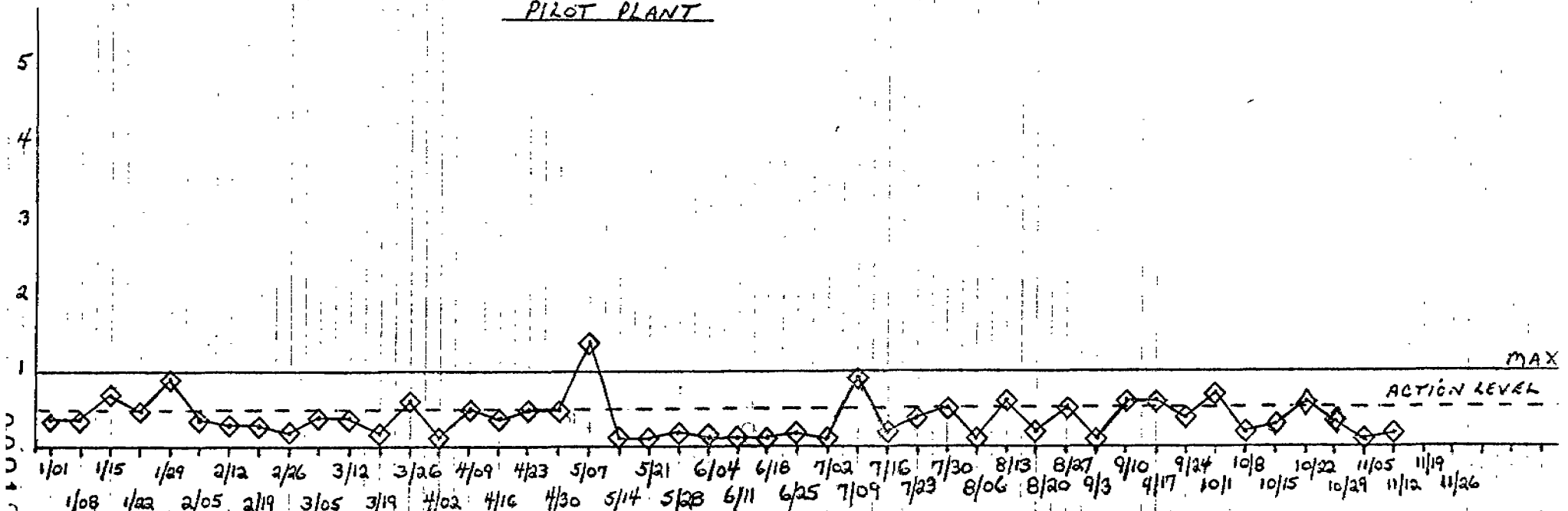
009124



GRAPH #2
WEEKLY PLANT EXPOSURE AVERAGES
FLEMINGTON
REACTOR BUILDING



PILOT PLANT



REPORT PERIOD, BEGINNING

Bendix Data comments for the period November 12 to November 18, 1977.

Reactor Building

A reactor baffle leak, which caused high VCM reading in the Reactor Building was repaired on November 11, 1977. However, the leak had contaminated the chilled water reservoir which is used for cooling reaction. It took until November 13, 1977 before all the VCM dissipated from the water in the reservoir.

W. D. Bord
W. D. Bord