

INTER-OFFICE MEMO

TENNECO CHEMICALS, INC.

TO J. T. Sweeney AT Flemington DATE October 24, 1977

FROM P. D. Ruane AT Flemington COPY TO W. D. Bord
C. N. Brown*
W. R. Fogelsanger
W. F. Gabel
D. M. Hershkowitz
F. W. Kanzler
R. A. Lojewski
P. M. Reed
S. Robbins*
M. K. Rosen
C. F. Rothenbeck
G. I. Rozand
R. J. Young
M. E. Wagshul

SUBJECT VCM Exposure Data and TWA - Flemington Plant
Area Monitoring System
October 1, 1977 to October 7, 1977

TWA Only*

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	<u>≥1</u>		<u>≥5</u>		<u>≥25</u>		<u>≥100</u>	
		N	%	N	%	N	%	N	%
Reactor Building	9,333	1596	17.1	135	1.4	5	0.1	2	0.02
Recovery Comp. Room	1,244	890	71.5	340	27.3	4	0.3	1	0.1
Pilot Plant	4,978	836	16.8	148	3.0	9	0.2	0	0
General Area	3,886	198	5.1	31	0.8	2	0.1	0	0
Parshall Flume	623	351	56.3	110	17.7	9	1.4	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 this report period reflecting three separate incidents. Two incidents occurred outside the Reactor Building affecting the VCM day tank area. No incidents occurred inside the Reactor Building during this report period. One incident occurred in the Recovery Compressor Room affecting #1 recovery system. No incidents occurred in the Pilot Plant or in the General Area during this report period.

Paul D. Ruane

P. D. Ruane

PDR:ms

008946

TABLE I
GENERAL AREA

Period Covered 10-1/10-7-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Truck Loading Platform	389	0	0	0	0	0
Quality Control Laboratory, West	389	0.9	113	8	0	0
Quality Control Laboratory, East	389	0.1	9	0	0	0
Lunchroom	388	0	0	0	0	0
Bulk Loading Tower	388	0.1	1	1	0	0
Dryer Room	388	0	0	0	0	0
Bagging Room - Baggers Seat	388	0	2	0	0	0
Maintenance Shop	389	0	1	0	0	0
VCM Transfer Pumps - Tank Farm	389	0.1	13	2	0	0
Tank Car Unloading Platform	389	0.9	59	20	2	0
TOTAL	3,886	0.2	198	31	2	0

P. D. Ruane
3/10/77

008947

REACTOR BUILDING

Monitoring Point

Period Covered

10-1/10-7-77

	N	$\bar{X}$	> 1	> 5	> 25	> 100
Center Aisle Column #2, 1st floor	622	0.1	10	1	0	0
Center Aisle Column #4, 1st floor	622	0.6	111	8	0	0
Center Aisle Column #6, 1st floor	622	0.4	68	4	0	0
#1 Slurry Transfer Pump, 1st floor	623	0.4	46	4	0	0
#2 Slurry Transfer Pump, 1st floor	SPECIAL	←				→
DeFoamer Tanks, 1st floor	SPECIAL	←				→
VCM Day Tank Area	622	0.8	45	6	3	2
Center Aisle Column #2, 2nd floor	622	1.0	148	31	0	0
Center Aisle Column #4, 2nd floor	623	1.4	252	16	2	0
Center Aisle Column #6, 2nd floor	622	0.5	81	4	0	0
Stripper #2 Platform, manhole, 2nd floor	622	1.4	228	32	0	0
Panel Board Column #7, 2nd floor	622	0.7	124	7	0	0
Stripper #1 Platform, manhole, 2nd floor	623	1.0	174	13	0	0
Knock-Out Pots, 2nd floor	622	0.6	90	5	0	0
Foreman's Desk	622	0.6	102	5	0	0
Dry Chemical Weigh-up Area	622	0.6	97	0	0	0
Stairwell in Hallway, 2nd floor	SPECIAL	←				→
Weigh Tank Chip Basket Area	622	0.1	20	2	0	0
Total	9333	0.7	1596	135	5	2

RECOVERY COMPRESSOR ROOM

Monitoring Point

	N	$\bar{X}$	> 1	> 5	> 25	> 100
#1 Recovery System	622	4.8	460	253	3	1
#2 Recovery System	622	2.7	430	87	1	0
Total	1244	3.8	890	340	4	1

P. D. Ruane
3/10/77

008800

PILOT PLANT

Period Covered 10-1/10-7-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100	
Strong Scott Dyer - Process Building	622	0	1	0	0	0	
Boiler House	SPECIAL	←				→	
Pilot Plant Laboratory - Process Building	622	0	1	0	0	0	
Centrifuge - Reactor Building	623	1.0	130	36	2	0	
"F" Reactor - Reactor Building	622	1.5	211	38	4	0	
Parshall Flume	623	2.9	351	110	9	0	
Plastisol Tower- Reactor Building	622	0.7	118	17	0	0	
VCM Storage Area - Reactor Building	622	0.2	35	4	0	0	
"E" Reactor - Reactor Building	622	1.4	184	40	3	0	
"B" & "C" Reactors - Reactor Building	623	0.9	156	13	0	0	
(* less *32 & *36)	* Total	4,978	0.7	836	148	9	0

P. D. Ruane
3/10/77

008949

TABLE IV

ALL EXCURSIONS AT OR GR. PER THAN 100 ppm VCM

PERIOD

10-1/10-7-77

DATETIMEAREA AFFECTEDREMARKS

10-4-77

1238

#1 RECOVERY SYSTEM, (REC. COMP. RM.)

10-5-77

0659

VCM DAY TANK AREA

1917

VCM DAY TANK AREA

008950

FLEMINGTON TIME-WEIGHTED EXPOSURE AVERAGES
CALCULATED FROM PENDIX MONITORING DATA

10/01/77 TO 10/07/77

JOB CLASSIFICATION

Two

TABLE V

RESIN PLANT

POLYFORMAN W AIR	.4
POLYFORMAN WO AIR	.8
SHIFT FORMAN W AIR	.2
SHIFT FORMAN WO AIR	1.7
REACTOR OPER-CHRG W AIR	.6
REACTOR OPER-CHRG WO AIR	.6
REACTOR OPER-DUMPG W AIR	.3
REACTOR OPER-DUMPG WO AIR	1.4
REACTOR OPER-RELIEF W AIR	.4
REACTOR OPER-RELIEF WO AIR	1.5
UTILITY OPER W AIR	.3
UTILITY OPER WO AIR	2.3
DRYER OPER	.0
WAREHOUSE SUPERVISOR	.1
WAREHOUSEMAN-BAGGER	.1

GENERAL AREA

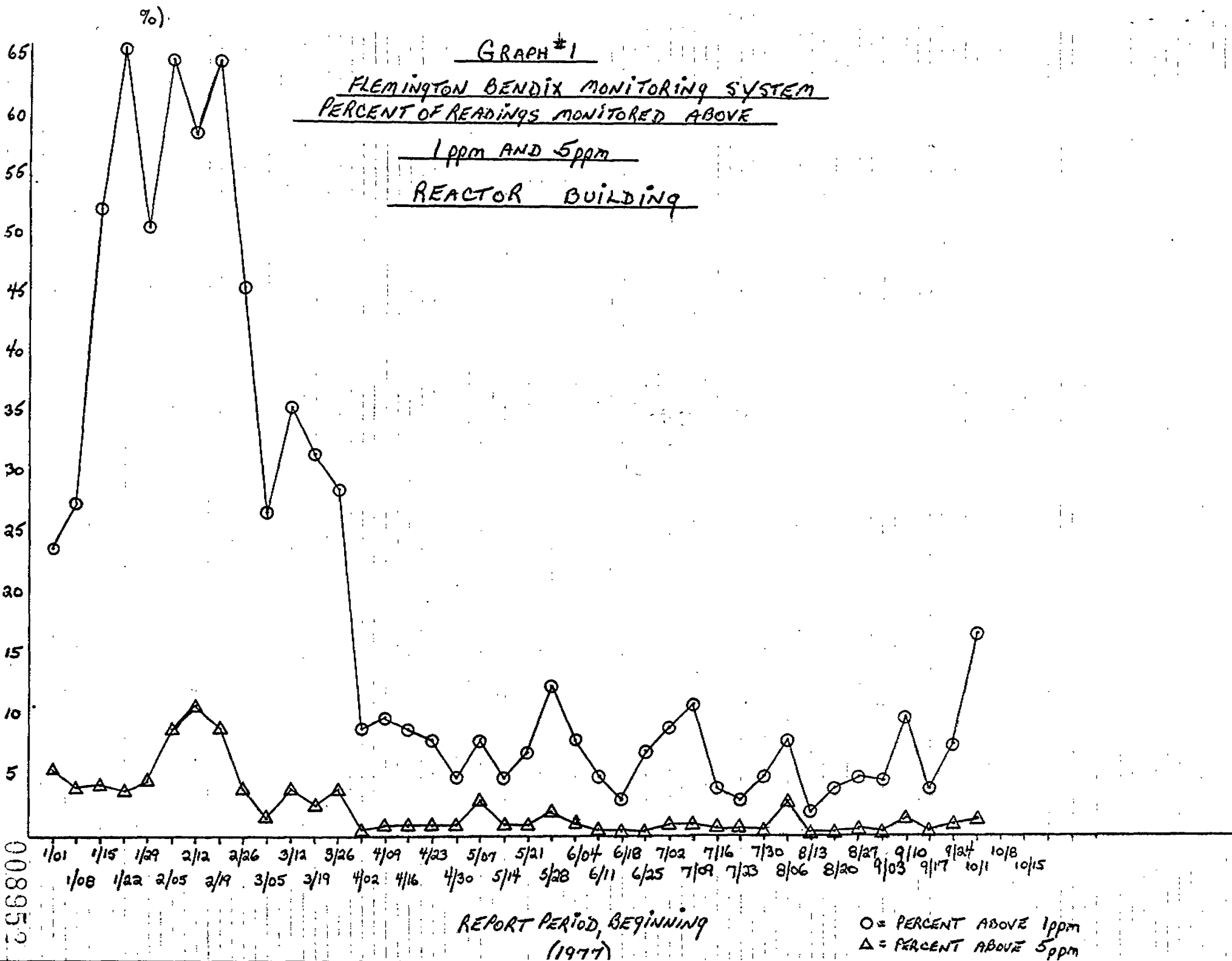
MAINTENANCE FORMAN	.1
MECHANIC SHIFT	.9
MECHANIC DAY	.5
BOILER OPER	.1
MAINTENANCE STOREKEEPER	.2
MAINTENANCE CLERK	.1
EFFLUENT MAN W AIR	.2
EFFLUENT MAN WO AIR	.4
QC TECHNICIAN	.3
QC SUPERVISOR	.1

PILOT PLANT

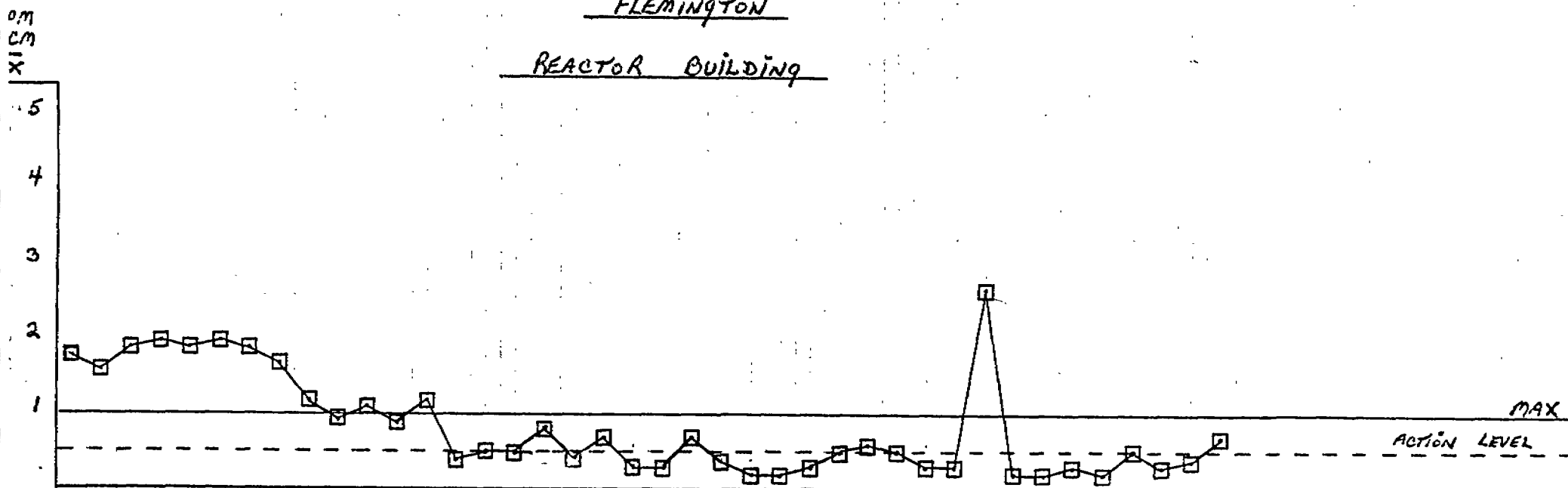
GROUP LEADER	.4
ENGINEER	.3
TECHNOLOGIST	.3
TECHNICIAN W AIR	.3
TECHNICIAN WO AIR	.4
MAIN TECHNICIAN	.3

Paul D. Ruane
10-14-77

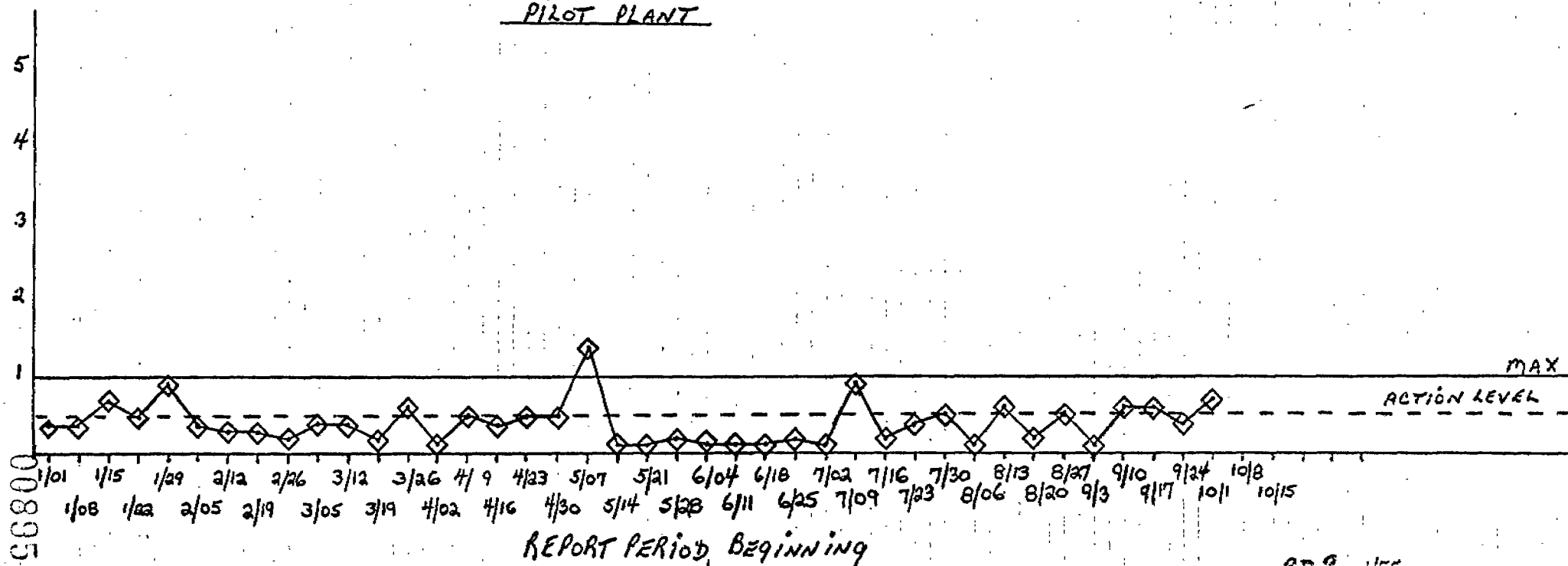
008951



GRAPH #2
WEEKLY PLANT EXPOSURE AVERAGES
FLEMINGTON
REACTOR BUILDING



PILOT PLANT



Bendix Data Comments for the Period of October 1st to October 7, 1977

Reactor Building

There were two contributing factors that caused the .7 PPM in the Reactor Building.

1) Leaking baffle on reactor #1

2) Malfunction on the water spray system on reactor #3.

Both of the above malfunctions have been repaired.

W. D. Bord
W. D. Bord