

INTER-OFFICE MEMO

TENNECO CHEMICALS, INC.

TO J. T. Sweeney AT Flemington DATE June 14, 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 28, 1977 to June 3, 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.

The Plant was in operation seven days for this report period running at about 98% utilization. The four G. C. 's were on computer control.

<u>Area</u>	<u>Total</u>	<u>> 1</u>		<u>> 5</u>		<u>> 25</u>		<u>> 100</u>	
		N	%	N	%	N	%	N	%
Reactor Building	10,058	1267	12.6	209	2.1	26	0.3	3	0.03
Recovery Comp. Room	1,342	454	33.8	95	7.1	28	2.1	18	1.3
Pilot Plant	5,367	198	3.7	29	0.5	2	0.04	0	0
General Area	6,706	203	3.0	17	0.3	3	0.04	0	0
Parshall Flume	671	29	4.3	0	0	0	0	0	0

All readings greater than or equal to 100 ppm VCM are tabulated in Table IV. Twenty one readings at or above 100 ppm occurred this report period, reflecting five separate incidents. Three incidents occurred in the Reactor Building affecting the center aisle 2nd floor, and #2 stripper platform. Two incidents 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

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TABLE I
GENERAL AREA

Period Covered 5-28/6-03-77

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
1. Truck Loading Platform	670	0	3	0	0	0
2. Quality Control Laboratory, West	670	0.6	115	2	2	0
3. Quality Control Laboratory, East	671	0.1	20	1	0	0
4. Lunchroom	671	0	0	0	0	0
5. Bulk Loading Tower	671	0	0	0	0	0
5. Dryer Room	671	0	2	0	0	0
7. Bagging Room - Baggers Seat	671	0	2	0	0	0
3. Maintenance Shop	671	0	0	0	0	0
9. VCM Transfer Pumps - Tank Farm	670	0.1	17	0	0	0
2. Tank Car Unloading Platform	670	0.4	44	14	1	0
TOTAL	6706	0.1	203	17	3	0

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3/10/77

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REACTOR BUILDING

Monitoring Point

Period Covered

5-28/6-03-77

	N	$\bar{X}$	> 1	≥ 5	≥ 25	≥ 100
Center Aisle Column #2, 1st floor	670	0.3	43	6	0	0
Center Aisle Column #4, 1st floor	671	0.2	53	2	0	0
Center Aisle Column #6, 1st floor	671	0.2	29	4	0	0
#1 Slurry Transfer Pump, 1st floor	671	0.2	26	2	0	0
#2 Slurry Transfer Pump, 1st floor	SPECIAL	←				→
DeFoamer Tanks, 1st floor	SPECIAL	←				→
VCM Day Tank Area	670	0.6	21	12	7	0
Center Aisle Column #2, 2nd floor	670	1.4	156	51	3	0
Center Aisle Column #4, 2nd floor	671	1.8	174	36	10	1
Center Aisle Column #6, 2nd floor	671	1.0	81	16	3	1
Stripper #2 Platform, manhole, 2nd floor	671	1.0	115	17	1	1
Panel Board Column #7, 2nd floor	671	0.6	100	8	1	0
Stripper #1 Platform, manhole, 2nd floor	670	0.6	98	12	0	0
Knock-Out Pots, 2nd floor	670	0.5	83	6	0	0
Foreman's Desk	670	0.9	138	20	0	0
Dry Chemical Weigh-up Area	670	0.7	101	13	1	0
Stairwell in Hallway, 2nd floor	SPECIAL	←				→
Weigh Tank Chip Basket Area	671	0.3	49	4	0	0
Total	10,058	0.7	1,267	209	26	3

RECOVERY COMPRESSOR ROOM

Monitoring Point

	N	$\bar{X}$	> 1	≥ 5	≥ 25	≥ 100
#1 Recovery System	671	5.0	222	53	15	9
#2 Recovery System	671	8.5	232	42	13	9
Total	1,342	6.8	454	95	28	18

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PILOT PLANT

Period Covered 5-28/6-03-77

Monitoring Point

N

$\bar{X}$

> 1

> 5

> 25

> 100

Monitoring Point	N	$\bar{X}$	> 1	> 5	> 25	> 100
Strong Scott Driver - Process Building	671	0	0	0	0	0
Boiler House	SPECIAL	←				→
Pilot Plant Laboratory - Process Building	671	0.1	7	0	0	0
Centrifuge - Reactor Building	671	0.1	13	2	1	0
"F" Reactor - Reactor Building	671	0.2	28	1	1	0
Parshall Flume	671	0.2	29	0	0	0
Plastisol Tower- Reactor Building	671	0.2	38	1	0	0
VCM Storage Area - Reactor Building	671	0.2	27	7	0	0
"E" Reactor - Reactor Building	671	0.5	83	18	0	0
"B" & "C" Reactors - Reactor Building	670	0	2	0	0	0

(* less *32 & *36)

* Total

5367

0.2

198

29

2

0

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3/10/77

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ALL EXCURSIONS AT OR GREATER THAN 100 ppm VCM

PERIOD

5-28/6-03-77

AREA AFFECTED

REMARKS

DATE

TIME

5-28-77

2221

CENTER AISLE COLUMN #6, 2ND FL. REACTOR BLDG.

6-01-77

1503

#1 RECOVERY SYSTEM (REC. COMP. ROOM).

2238

#2 RECOVERY SYSTEM (REC. COMP. ROOM).

2251

#1 " " (" " ")

2253

#2 " " (" " ")

2306

#1 " " (" " ")

2308

#2 " " (" " ")

2321

#1 " " (" " ")

2323

#2 " " (" " ")

2336

#1 " " (" " ")

2338

#2 " " (" " ")

2351

#1 " " (" " ")

SAME INCIDENT) 2353

#2 " " (" " ")

* ↓

6-02-77

0006

#1 " " (" " ")

0008

#2 " " (" " ")

0021

#1 " " (" " ")

0023

#2 " " (" " ")

0036

#1 " " (" " ")

0038

#2 " " (" " ")

TABL

ALL EXCURSIONS AT OR GREATER THAN 100 ppm VCM

pg. 2 of 2

PERIOD 5-28/6-03-77

<u>DATE</u>	<u>TIME</u>	<u>AREA AFFECTED</u>	<u>REMARKS</u>
CONTINUED 6-02-77	2254	STRIPPER #2 PLATFORM, MANHOLE, 2 ND FL. REACTOR BLDG	
6-03-77	0821	CENTER AISLE COLUMN #4, 2 ND FL. REACTOR BL	

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FLEMINGTON TIME-WEIGHTED EXPOSURE AVERAGES
CALCULATED FROM BENDIX MONITORING DATA

05/28/77 TO 06/03/77

JOB CLASSIFICATION

TWA

TABLE V

RESIN PLANT

POLYFORMAN W AIR	.5
POLYFORMAN WO AIR	1.1
SHIFT FORMAN W AIR	.3
SHIFT FORMAN WO AIR	1.8
REACTOR OPER-CHRG W AIR	.7
REACTOR OPER-CHRG WO AIR	.7
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	.4
UTILITY OPER WO AI	3.7
DRYER OPER	.0
WAREHOUSE SUPERVIS	.1
WAREHOUSEMAN-BAGGER	.1

GENERAL AREA

MAINTENANCE FORMAN	.1
MECHANIC SHIFT	1.3
MECHANIC DAY	.6
BOILER OPER	.1
MAINTENANCE STOREKEEPER	.2
MAINTENANCE CLERK	.1
EFFLUENT MAN W AIR	.2
EFFLUENT MAN WO AIR	.2
QC TECHNICIAN	.2
QC SUPERVISOR	.1

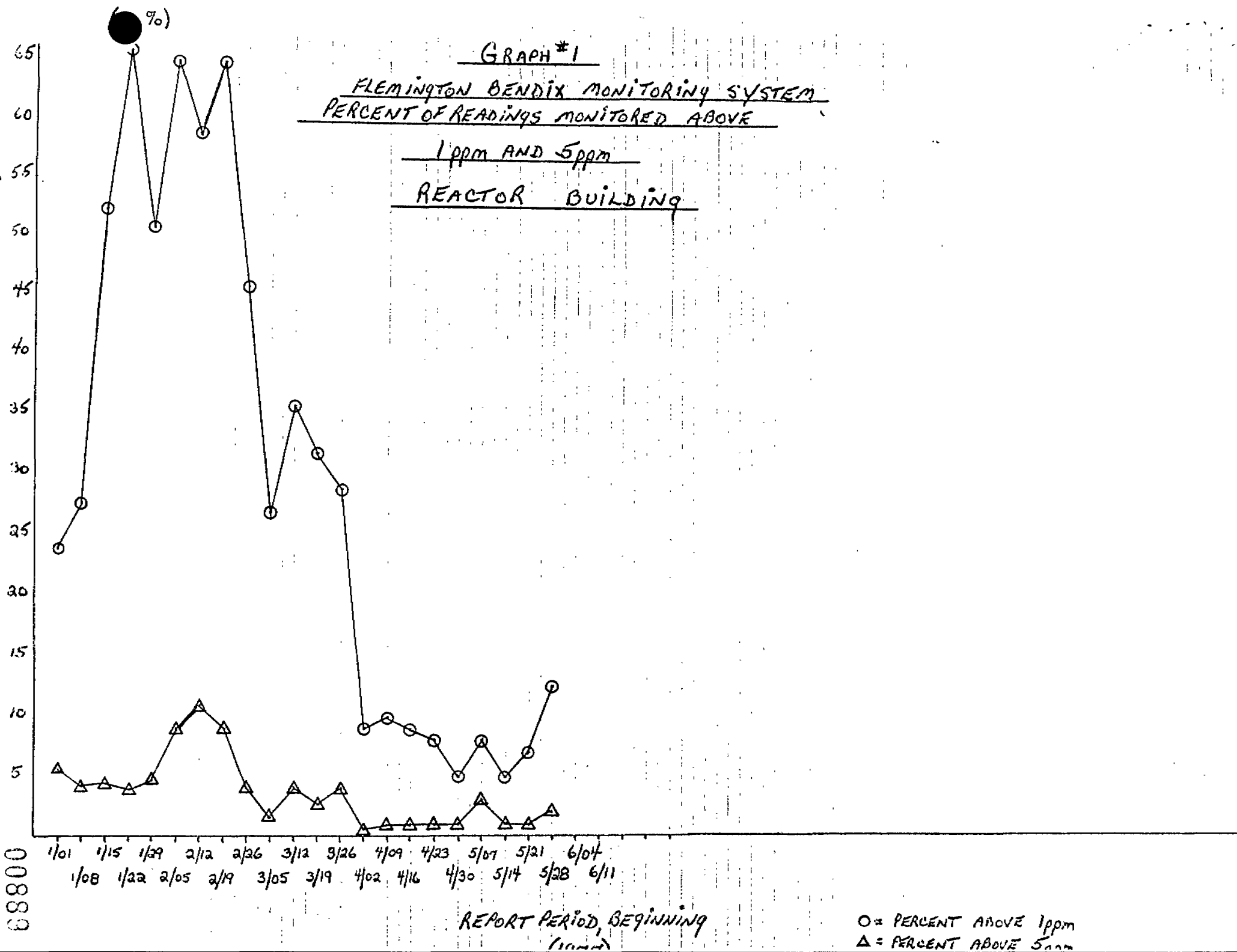
PILOT PLANT

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

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06/08/77

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

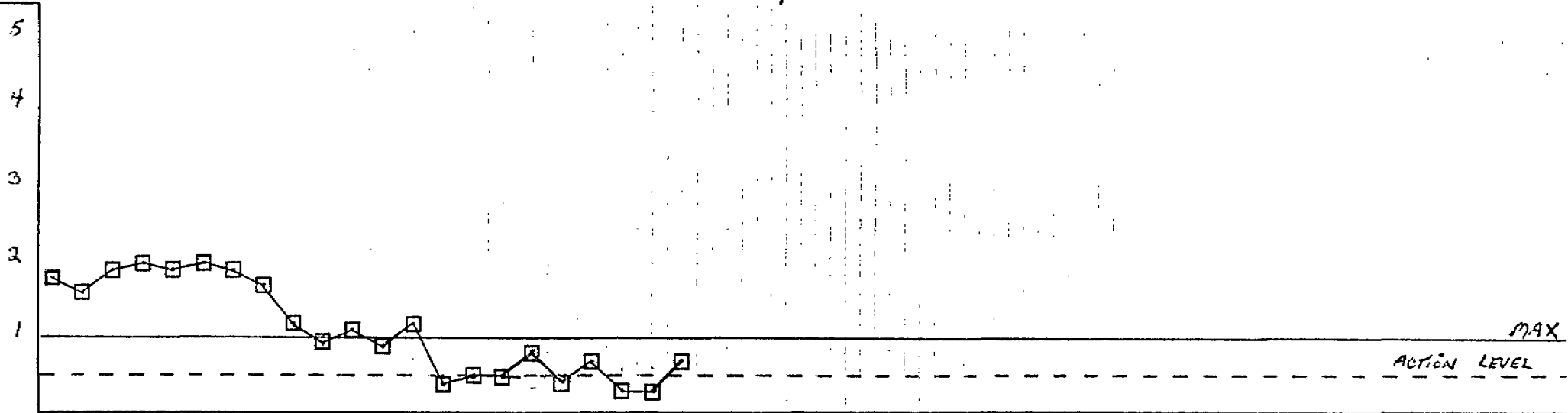


GRAPH #2
WEEKLY PLANT EXPOSURE AVERAGES

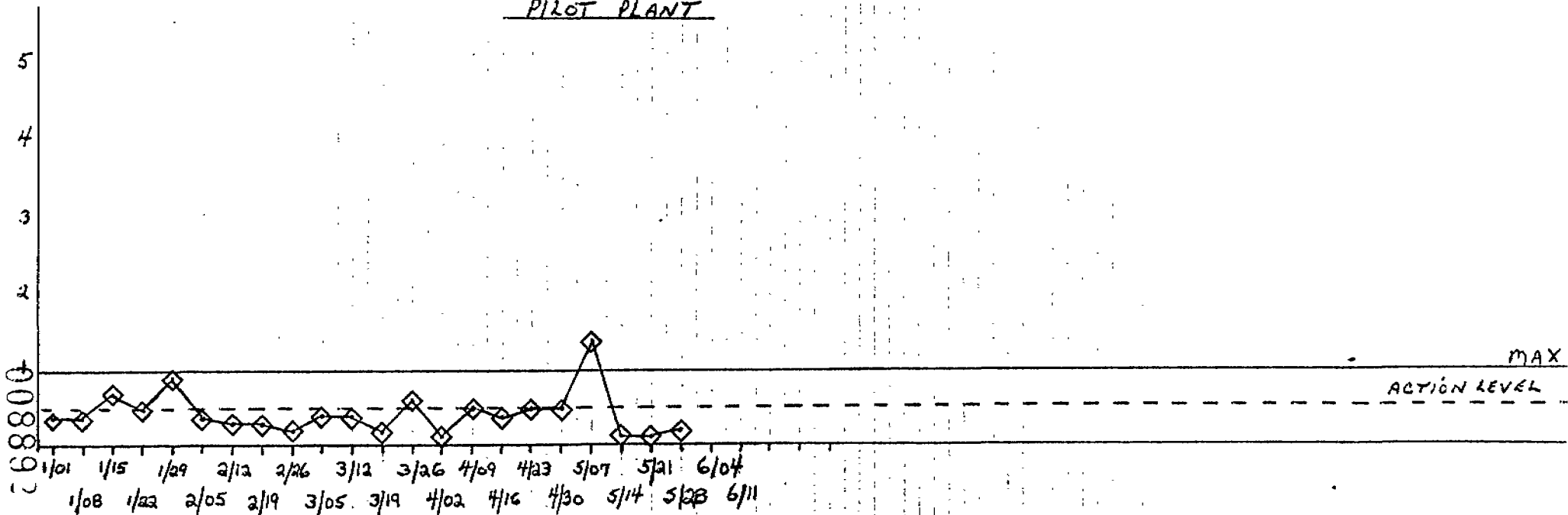
FLEMINGTON

REACTOR BUILDING

10m
10m
x



PILOT PLANT



REPORT PERIOD BEGINNING