

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

TO J. T. Sweeney AT Flemington DATE April 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
April 2, 1977 to April 8, 1977

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. 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 98% utilization. The four G. C. 's were on computer control.

Area	Total	≥ 1		≥ 5		≥ 25		≥ 100	
		N	%	N	%	N	%	N	%
Reactor Building	8,367	791	9	38	0.5	2	0.02	1	0.01
Recovery Comp. Room	857	281	33	11	1.3	0	0	0	0
Pilot Plant	4,339	76	1.8	6	0.1	1	0.02	0	0
General Area	5,437	93	1.7	37	0.7	2	0.04	0	0
Parshall Flume	542	112	20.7	4	0.7	0	0	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. One incident occurred in the Reactor Building affecting #1 stripper platform, 2nd floor. No incidents occurred in the Recovery Compressor Room during this report period. No incidents occurred in the General Area or in the Pilot Plant during this report period.

Paul D. Ruane

P. D. Ruane

PDR:ms

008822

TABLE
GENERAL AREA

Period Covered 4-02/4-08-77

Monitoring Point

N

$\bar{X}$

> 1

> 5

> 25

> 100

1. Truck Loading Platform	543	0	0	0	0	0
2. Quality Control Laboratory, West	543	0.8	40	22	2	0
3. Quality Control Laboratory, East	543	0.4	29	10	0	0
4. Lunchroom	544	<0.1	0	0	0	0
5. Bulk Loading Tower	545	0	0	0	0	0
6. Dryer Room	545	0	1	0	0	0
7. Bagging Room - Baggers Seat	544	0	0	0	0	0
8. Maintenance Shop	544	0	0	0	0	0
9. VCM Transfer Pumps - Tank Farm	543	0.1	9	0	0	0
0. Tank Car Unloading Platform	543	0.2	14	5	0	0
TOTAL	5437	0.2	93	37	2	0

P. D. Ruane
3/10/77

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TABLE 1-

REACTOR BUILDING

Monitoring Point

Period Covered

4-2/4-8-77

	N	$\bar{X}$	> 1	> 5	> 25	> 100
Center Aisle Column #2, 1st floor	542	<0.1	3	1	0	0
Center Aisle Column #4, 1st floor	542	0.2	41	0	0	0
Center Aisle Column #6, 1st floor	543	<0.1	3	0	0	0
#1 Slurry Transfer Pump, 1st floor	543	0.1	2	0	0	0
#2 Slurry Transfer Pump, 1st floor	229	0.1	0	0	0	0
DeFoamer Tanks, 1st floor	SPECIAL	←				→
VCM Day Tank Area	544	0	0	0	0	0
Center Aisle Column #2, 2nd floor	542	0.2	20	0	0	0
Center Aisle Column #4, 2nd floor	543	0.4	41	2	0	0
Center Aisle Column #6, 2nd floor	542	0.4	55	0	0	0
Stripper #2 Platform, manhole, 2nd floor	542	0.9	133	12	1	0
Panel Board Column #7, 2nd floor	542	0.7	92	7	0	0
Stripper #1 Platform, manhole, 2nd floor	542	1.1	121	8	1	1
Knock-Out Pots, 2nd floor	542	0.7	107	5	0	0
Foreman's Desk	543	0.5	72	1	0	0
Dry Chemical Weigh-up Area	543	0.5	78	2	0	0
Stairwell in Hallway, 2nd floor	SPECIAL	←				→
Weigh Tank Chip Basket Area	543	0.2	23	0	0	0
Total	8367	0.4	791	38	2	1

RECOVERY COMPRESSOR ROOM

Monitoring Point

	N	$\bar{X}$	> 1	> 5	> 25	> 100
#1 Recovery System	314	1.2	114	6	0	0
#2 Recovery System	543	1.0	167	5	0	0
Total	857	1.1	281	11	0	0

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3/10/77

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PILOT PLANT

Period Covered 4-02/4-08-77

Monitoring Point

N

$\bar{X}$

> 1

$\sum$ 5

$\sum$ 25

$\sum$ 100

1 Strong Scott Dryer - Process Building	542	0	0	0	0	0
2 Boiler House	SPECIAL	←				→
3 Pilot Plant Laboratory - Process Building	543	0	0	0	0	0
4 Centrifuge - Reactor Building	542	0.1	12	0	0	0
5 "F" Reactor - Reactor Building	542	0.3	30	2	0	0
5 Parshall Flume	542	0.6	112	4	0	0
7 Plastisol Tower- Reactor Building	542	0.2	13	0	0	0
3 VCM Storage Area - Reactor Building	542	0.1	6	0	0	0
3 "E" Reactor - Reactor Building	543	0.3	15	4	1	0
2 "B" & "C" Reactors - Reactor Building	543	0	0	0	0	0
* Total	4339	0.1	76	6	1	0

(*less #246)

P. D. Ruane
3/10/77

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TABL

ALL EXCURSIONS AT OR GREATER THAN 100 ppm VCM

PERIOD

4-02/4-08-77

DATE

TIME

AREA AFFECTED

REMARKS

4-4-77

1827

STRIPPER #1 PLATFORM, MANHOLE, 2ND FL. REACT

09.

008826

P. D. R. 2/77

FLEMINGTON TIME-WEIGHTED EXPOSURE AVERAGES
CALCULATED FROM BENDIX MONITORING DATA

04/02/77 TO 04/08/77

JOB CLASSIFICATION

TWA

TABLE V

RESIN PLANT

POLYFORMAN W AIR	.3
POLYFORMAN WO AIR	.4
SHIFT FORMAN W AIR	.2
SHIFT FORMAN WO AIR	1.5
REACTOR OPER-CHRG W AIR	.5
REACTOR OPER-CHRG WO AIR	.5
REACTOR OPER-DUMPG W AIR	.3
REACTOR OPER-DUMPG WO AIR	1.3
REACTOR OPER-RELIEF W AIR	.3
REACTOR OPER-RELIEF WO AIR	1.3
UTILITY OPER W AIR	.3
UTILITY OPER WO AIR	3.6
DRYER OPER	.1
WAREHOUSE SUPERVISO	.1
WAREHOUSEMAN-BAGGER	.1

GENERAL AREA

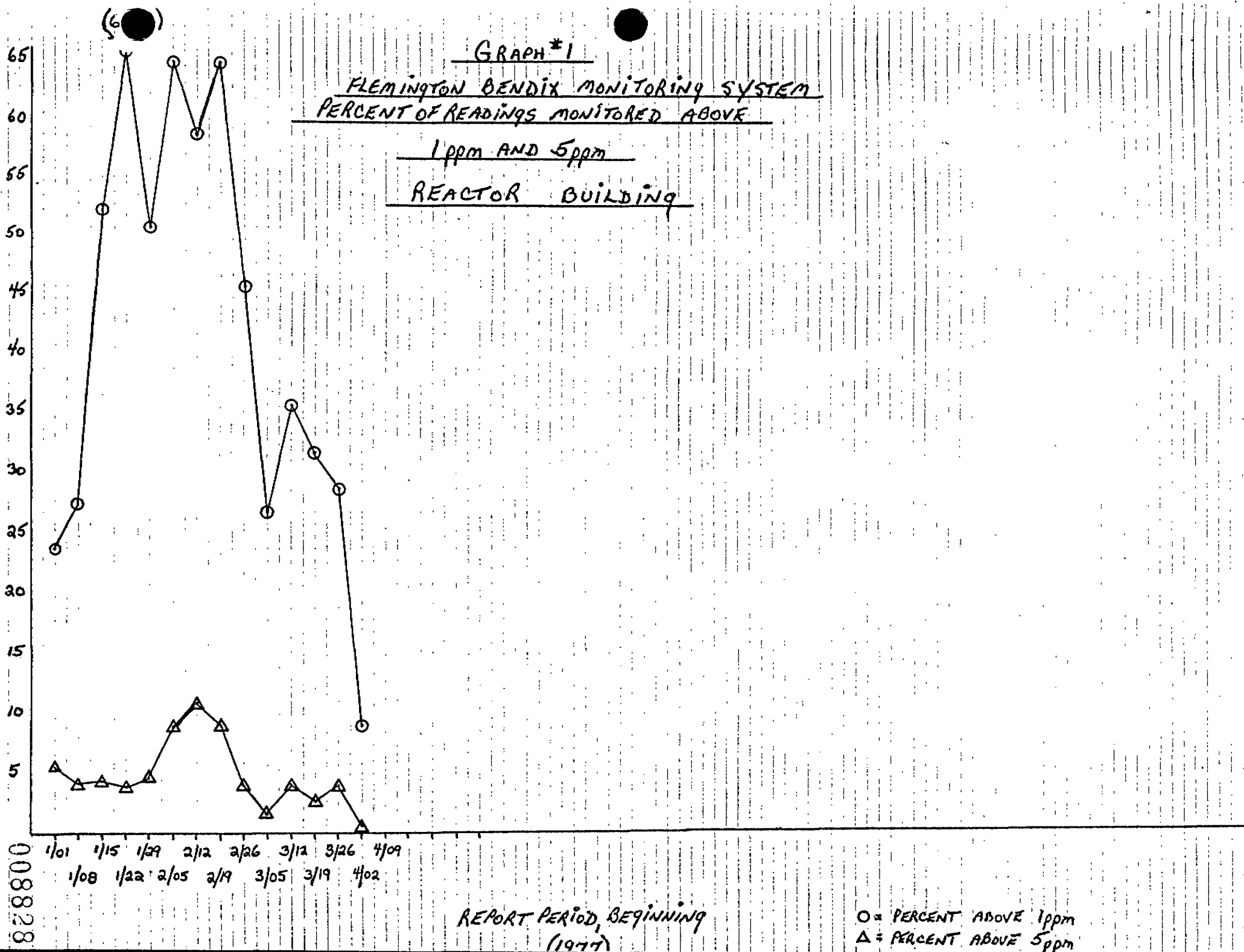
MAINTENANCE FORMAN	.1
MECHANIC SHIFT	.4
MECHANIC DAY	.2
BOILER OPER	.1
MAINTENANCE STOREKEEPER	.2
MAINTENANCE CLERK	.1
EFFLUENT MAN W AIR	.2
EFFLUENT MAN WO AIR	.3
QC TECHNICIAN	.4
QC SUPERVISOR	.3

PILOT PLANT

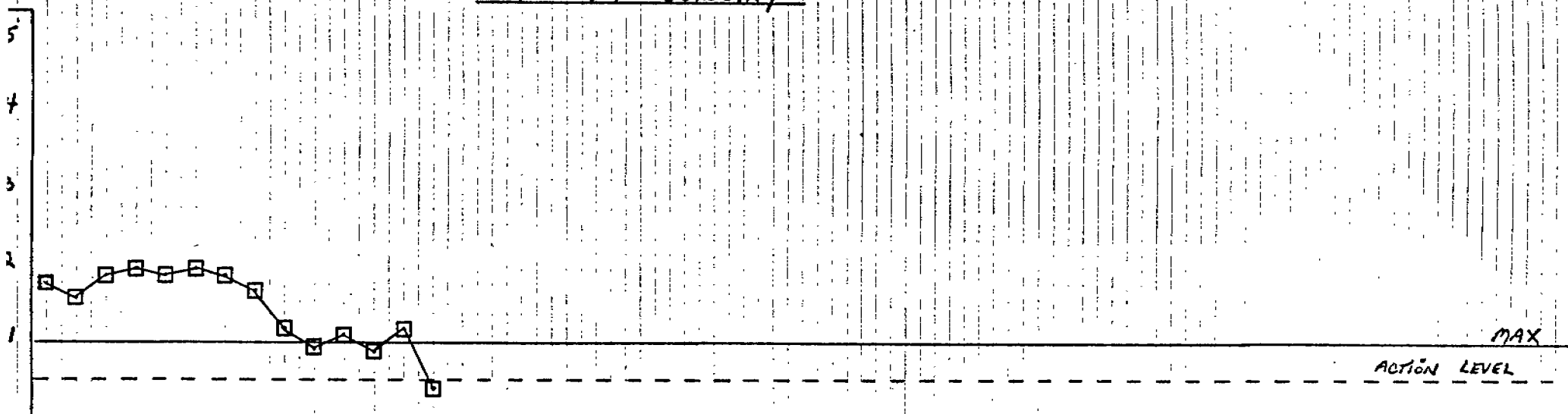
GROUP LEADER	.3
ENGINEER	.2
TECHNOLOGIST	.1
TECHNICIAN W AIR	.1
TECHNICIAN WO AIR	.2
MAINT TECHNICIAN	.1

Paul D. Ruane
04-13-77

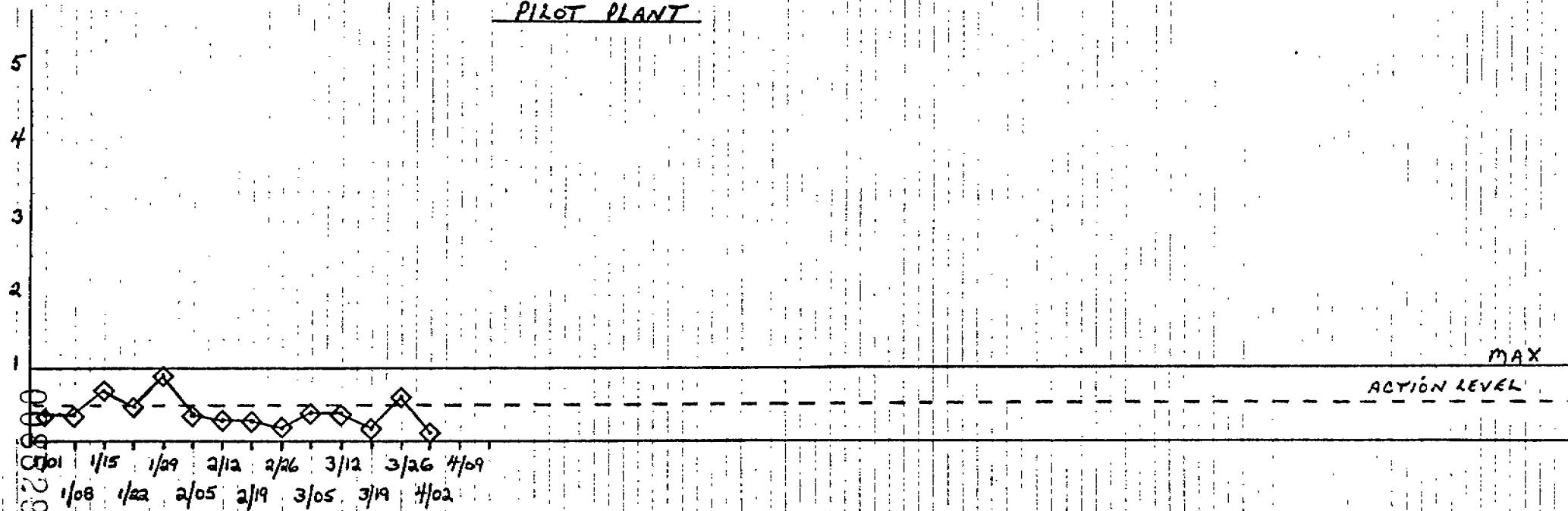
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GRAPH #2
WEEKLY PLANT EXPOSURE AVERAGES
FLEMINGTON
REACTOR BUILDING



PILOT PLANT



REPORT PERIOD BEGINNING

Bendix Data Comments for the Period of April 2, 1977 to April 8, 1977

Reactor Building

GAR has been submitted for upgrading the reactor
exhaust system.

W. J. *W. J.*

WDB:ms

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