

TO J. T. Sweeney AT Flemington DATE October 14, 1975

FROM W. C. Champion AT Flemington COPY TO W. D. Bord
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SUBJECT VCM Exposure Data - Flemington Plant
Bendix Monitoring System
Period: October 4, 1975 to October 10, 1975

Attached are area summaries, summaries of excursions above 1, 5, 25 and 100 ppm VCM and a listing of all excursions observed at or above 100 ppm VCM. Monitoring points RE #9 and #20 remained in special service during this report period.

The plant was in operation seven days for this report period running at about 91% utilization. The following summaries are taken from a tabulation of 25% of the data or one set of readings per hour.

The Reactor Building showed 359 readings > 1 ppm, 22 excursions > 25 ppm and no readings > 100 ppm.

The Pilot Plant showed 334 readings > 1 ppm, 4 excursions > 25 ppm and no readings > 100 ppm.

The General Area showed 139 readings > 1 ppm, 11 excursions > 25 ppm and 1 reading > 100 ppm.

The Lift Station showed 37 readings > 1 ppm and no excursions > 25 ppm.

The Parshall Flume showed 53 readings > 1 ppm and no excursions > 25 ppm.

All readings greater than or equal to 100 ppm are tabulated in Table IV. Seven readings at or above 100 ppm occurred during this report period reflecting seven separate incidents. Two incidents occurred in the Reactor Building affecting stripper #1 platform and the panel board. One incident occurred in the Pilot Plant at "E" reactor. The remaining four incidents occurred in the General Area at the VCM pumps in the tank farm and at the tank car unloading platform.

W.C. Champion (RAL)
W. C. Champion

WCC:ms

TABLE 1
REACTOR BUILDING

Period Covered 10-4/10-10-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1 Center Aisle Column #2, 1st flr	168	0.2	12	2	1	0
2 Center Aisle Column #4, 1st flr	168	0.3	7	2	1	0
3 Center Aisle Column #6, 1st flr	168	0.5	11	3	0	0
4 #1 Slurry Transfer Pump, 1st flr	168	0.4	9	2	0	0
5 #2 Slurry Transfer Pump, 1st flr	168	0.9	12	8	0	0
6 Defoamer Tanks, 1st flr	168	0.4	10	2	1	0
7 #1 Recovery Compressor Wall, 1st flr	168	0.3	19	5	1	0
8 #1 Recovery Vacuum Seal Pump, 1st flr	168	0.6	8	4	1	0
9 VCM Day Tank Pumps, outside SPECIAL	0	SPEC.	←			
10 Center Aisle Column #2, 2nd flr	168	1.0	25	7	4	0
11 Center Aisle Column #4, 2nd flr	167	1.9	30	8	0	0
12 Center Aisle Column #6, 2nd flr	167	1.1	15	9	3	0
13 Stripper #2 Platform, manhole, 2nd flr	167	1.1	28	10	4	0
14 Panel Board Column #7, 2nd flr	167	0.9	28	14	1	0
15 Stripper #1 Platform, manhole, 2nd flr	167	1.0	33	15	1	0
16 Knock-Out Pots, 2nd flr	167	0.9	23	11	1	0
17 West Wall Between Old Styrene Tanks, 2nd flr	167	1.3	29	12	1	0
18 South Wall Near Gelatin Make-Up Area, 2nd flr	167	1.0	29	7	0	0
19 Stairwell in Hallway, 2nd flr	167	1.6	31	13	2	0
20 Outside, near left side door to weigh tank SPECIAL	0	SPEC.	←			
Total	3015	0.86	359	134	22	

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R.A. Lo
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TABLE II
PILOT PLANT

Period Covered 10-4/10-10-7

	Monitoring Point	N	$\bar{x}$	>1	>5	>25	>10
1	Dryer	168	0.3	39	10	0	0
2	Lift Station (future)	168	0.3	39	10	0	0
3	Pilot Laboratory	168	0.6	37	15	0	0
4	Centrifuge	168	1.0	41	13	1	0
5	"F" Reactor	168	1.1	44	10	0	0
6	Parshall Flume	168	1.6	33	18	0	0
7	Cooling Tower	168	1.1	46	9	1	0
8	Pump Switches	168	1.3	45	12	1	0
9	"E" Reactor	168	0.9	41	8	1	0
10	"B" & "C" Reactors	168	1.3	41	10	0	0
	Total	1,680	0.96	424	115	4	0

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TABLE III
GENERAL AREA

Period Covered 10-4/10-10-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>10
1. Truck Loading	168	0.2	9	2	0	0
2. Quality Control Laboratory, west	168	0.1	4	1	0	0
3. Quality Control Laboratory, east	168	<0.1	0	0	0	0
4. Lunchroom	168	<0.1	1	0	0	0
5. Bulk Loading Tower	168	<0.1	1	1	0	0
6. Dryer Room	168	0.2	2	1	0	0
7. Dugging Seat	168	<0.1	0	0	0	0
8. Maintenance Shop	168	0.1	0	0	0	0
9. VCM Pumps	168	3.1	64	36	7	4
10. Tank Car Unloading	168	2.2	58	28	4	0
Total	1680	0.63	139	69	11	0

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EXCURSIONS AT 100 ppm OR GREATERPERIOD COVERED 10-4/10-10:

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
10-4-75	1258	VCM PUMPS (TANK FARM)
	1730	STRIPPER #1 PLAT. MANHOLE 2 ND FL. R.BLDG.
10-8-75	0415	TANK CAR UNLOADING
	1007	PANEL BOARD COL. #7 2 ND FL. R.BLDG.
	1758	VCM PUMPS (TANK FARM)
10-9-75	0058	TANK CAR UNLOADING.
10-10-75	1743	E REACTOR (PILOT PLANT)

R.A.L.
4/29/75