

TO J. T. Sweeney AT Flemington DATE September 23, 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: September 13, 1975 to September 19, 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 & #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 390 readings > 1 PPM, 10 excursions > 25 ppm and no readings > 100 ppm.

The Pilot Plant showed 325 readings > 1 ppm and no excursions > 25 ppm.

The General Area showed 135 readings > 1 ppm, 13 excursions > 25 ppm and 3 readings > 100 ppm.

The Lift Station showed 83 readings > 1 ppm, 1 excursion > 25 ppm and no readings > 100 ppm.

The Parshall Flume showed 12 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. One incident occurred in the Reactor Building affecting stripper #2 platform. One incident occurred in the Pilot Plant at "F" reactor. The remaining five incidents occurred in the General Area affecting the VCM pumps in the tank farm and the tank car unloading area.

W.C. Champion (RA)
W. C. Champion

WCC:ms

TABLE I
REACTOR BUILDING

Period Covered 9-13/9-19-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1 Center Aisle Column #2, 1st flr	167	0.3	5	1	0	0
2 Center Aisle Column #4, 1st flr	167	0.3	6	3	0	0
3 Center Aisle Column #6, 1st flr	167	0.2	4	3	0	0
4 #1 Slurry Transfer Pump, 1st flr	167	0.2	4	2	0	0
5 #2 Slurry Transfer Pump, 1st flr	167	0.3	7	4	0	0
6 Defoamer Tanks, 1st flr	167	0.3	8	0	0	0
7 #1 Recovery Compressor Wall, 1st flr	167	0.3	7	0	0	0
8 #1 Recovery Vacuum Seal Pump, 1st flr	167	0.3	7	0	0	0
9 VCM Day Tank Pumps, outside	0	SPECIAL	←			
10 Center Aisle Column #2, 2nd flr	167	0.8	25	7	0	0
11 Center Aisle Column #4, 2nd flr	163	2.2	50	9	3	0
12 Center Aisle Column #6, 2nd flr	163	1.2	30	9	1	0
13 Stripper #2 Platform, manhole, 2nd flr	163	2.1	47	14	2	0
14 Panel Board Column #7, 2nd flr	163	1.0	23	7	0	0
15 Stripper #1 Platform, manhole, 2nd flr	163	2.0	34	18	1	0
16 Knock-Out Pots, 2nd flr	163	1.5	38	14	0	0
17 West Wall Between Old Styrene Tanks, 2nd flr	163	1.1	25	12	0	0
18 South Wall Near Gelatin Make-Up Area, 2nd flr	163	1.3	33	10	0	0
19 Stairwell in Hallway, 2nd flr	163	2.4	37	15	3	0
20 Outside, near left side door to weigh tank	0	SPECIAL	←			
Total	3300	0.99	390	128	10	0

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TABLE II

PILOT PLANT

Period Covered 9-13/9-19-72

Monitoring Point		N	$\bar{x}$	>1	>5	>25	>100
1	Dryer	164	0.1	0	0	0	0
2	Lift Station (future)	164	4.2	83	72	1	0
3	Pilot Laboratory	164	0.2	0	0	0	0
4	Centrifuge	164	1.3	38	3	0	0
5	"F" Reactor	164	1.2	40	0	0	0
6	Marshall Flume	164	0.8	12	1	0	0
7	Cooling Tower	164	1.4	34	3	0	0
8	Pump Switches	164	2.2	56	21	0	0
9	"E" Reactor	164	1.6	66	1	0	0
10	"B" & "C" Reactors	164	2.0	91	7	0	0
Total		1640	1.50	420	108	1	0

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EXCURSIONS AT 100 ppm OR GREATERPERIOD COVERED 9-13/9-11

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
9-14-75	0642	VCN PUMPS (TANK FARM)
9-16-75	0414	VCN PUMPS (TANK FARM)
	1838	F' REACTOR (PILOT PLANT)
9-17-75	2113	TANK CAR UNLOADING
9-18-75	0014	VCN PUMPS (TANK FARM)
	1120	STRIPPER #2 PLAT. MANHOLE 2 nd FL. R BLDG.
9-19-75	0659	TANK CAR UNLOADING.

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TABLE III

GENERAL AREA

Period Covered 9-13/9-19-10

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1. Truck Loading	166	0.3	5	2	0	0
2. Quality Control Laboratory, west	166	0.1	3	0	0	0
3. Quality Control Laboratory, east	166	<0.1	0	0	0	0
4. Lunchroom	166	0	0	0	0	0
5. Bulk Loading Tower	166	<0.1	0	0	0	0
6. Dryer Room	166	0.1	2	0	0	0
7. Bagging Seat	166	<0.1	1	0	0	0
8. Maintenance Shop	166	<0.1	0	0	0	0
9. VCN Pumps	166	5.4	73	38	10	1
10. Tank Car Unloading	166	2.6	51	17	3	1
Total	1660	0.89	135	57	13	1

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TABLE III

GENERAL AREAPeriod Covered 9-13/9-19-10

Monitoring Point		N	$\bar{x}$	>1	>5	>25	>100
1	Truck Loading	166	0.3	5	2	0	0
2	Quality Control Laboratory, west	166	0.1	3	0	0	0
3	Quality Control Laboratory, east	166	<0.1	0	0	0	0
4	Lunchroom	166	0	0	0	0	0
5	Bulk Loading Tower	166	<0.1	0	0	0	0
6	Dryer Room	166	0.1	2	0	0	0
7	Bagging Seat	166	<0.1	1	0	0	0
8	Maintenance Shop	166	<0.1	0	0	0	0
9	VGN Pumps	166	5.4	73	38	10	0
10	Tank Car Unloading	166	2.6	31	17	3	0
Total		1660	0.89	135	57	13	0

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