

TO J. T. Sweeney AT Flemington DATE November 11, 1975

FROM R. A. Lojewski AT Flemington COPY TO W. D. Bord
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SUBJECT VCM Exposure Data - Flemington
Bendix Monitoring System
Period: November 1, 1975 to November 7, 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 point RE #9 remained in special service during this report period.

The plant was in operation seven days for this report period running at about 96% 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 484 readings > 1 ppm, 24 excursions > 25 ppm and 3 readings > 100 ppm.

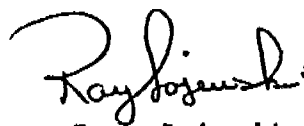
The Pilot Plant showed 623 readings > 1 ppm, 14 excursions > 25 ppm and 1 reading > 100 ppm.

The General Area showed 143 readings > 1 ppm, 4 excursions > 25 ppm and no readings > 100 ppm.

The Lift Station showed 53 readings > 1 ppm, 2 excursions > 25 ppm and no readings > 100 ppm.

The Parshall Flume showed 80 readings > 1 ppm, 2 excursions > 25 ppm and no readings > 100 ppm.

All readings greater than or equal to 100 ppm are tabulated in Table IV. Nine readings at or above 100 ppm occurred during this report period reflecting seven separate incidents. Three incidents occurred in the Reactor Building affecting the second floor center aisle, recovery compressor room and the south wall near gelatin make-up area on 2nd floor. Three incidents occurred in the general area affecting the VCM pumps in the tank farm and the tank car unloading platform. One incident occurred in the Pilot Plant affecting "F" Reactor in the Pilot Plant Reactor Building


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RAL:ms

TABLE 1
REACTOR BUILDING

Period Covered 11-1/11-7-75

	Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1	Center Aisle Column #2, 1st flr	164	1.6	20	12	2	0
2	Center Aisle Column #4, 1st flr	164	1.6	23	10	2	1
3	Center Aisle Column #6, 1st flr	164	1.2	19	10	1	0
4	#1 Slurry Transfer Pump, 1st flr	164	0.8	21	8	1	0
5	#2 Slurry Transfer Pump, 1st flr	164	0.8	17	9	0	0
6	Deaerator Tanks, 1st flr	164	0.9	20	9	2	0
7	#1 Recovery Compressor Wall, 1st flr	164	1.2	22	12	1	0
8	#1 Recovery Vacuum Seal Pump, 1st flr	164	1.1	23	7	1	0
9	VCM Dry Tank Pumps, outside	SPECIAL					
10	Center Aisle Column #2, 2nd flr	164	1.3	21	10	2	0
11	Center Aisle Column #4, 2nd flr	164	2.1	52	12	2	0
12	Center Aisle Column #6, 2nd flr	164	0.8	15	3	1	0
13	Stripper #2 Platform, manhole, 2nd flr	164	2.1	40	9	2	0
14	Panel Board Column #7, 2nd flr	164	0.9	17	6	0	0
15	Stripper #1 Platform, manhole, 2nd flr	164	1.8	36	9	2	0
16	Knock-Out Pots, 2nd flr	164	1.2	30	9	0	0
17	West Wall Between Old Styrene Tanks, 2nd flr	164	1.4	26	10	1	0
18	South Wall Near Gelatin Make-Up Area, 2nd flr	164	2.3	35	11	2	0
19	Stairwell in Hallway, 2nd flr	164	2.0	39	12	2	0
20	Outside, near left side door to weigh tank	148	0.5	8	3	0	0
Total		3100	1.35	484	171	24	

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TABLE II

PILOT PLANT

Period Covered

11-1/11-7-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
Dryer	164	2.4	57	16	2	0
Lift Station (future)	164	3.0	53	29	2	0
Pilot Laboratory	164	1.6	53	12	1	0
Centrifuge	164	2.4	69	23	1	0
"F" Reactor	164	3.7	83	28	3	1
Marshall Flame	164	2.6	80	17	2	0
Cooling Tower	164	3.6	109	30	2	0
Pump Switches	164	3.4	90	26	3	0
"E" Reactor	164	2.5	66	15	1	0
"B" & "C" Reactors	164	3.1	96	22	1	0
Total	1640	2.83	756	218	18	1

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4/15/75

TABLE III
GENERAL AREA

Period Covered 11-1/11-7-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1. Truck Loading	164	0.6	10	5	0	0
2. Quality Control Laboratory, west	164	0.3	9	2	0	0
3. Quality Control Laboratory, east	164	0.2	6	1	0	0
4. Lunchroom	164	0.2	4	1	0	0
5. Bulk Loading Tower	164	0.2	5	1	0	0
6. Dryer Room	164	0.8	23	5	0	0
7. Bagging Seat	164	0.3	5	1	0	0
8. Maintenance Shop	164	0.1	3	0	0	0
9. VCM Pumps	164	2.4	33	17	3	0
10. Tank Car Unloading	164	1.8	43	15	1	0
Total	1640	0.69	143	48	4	0

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EXCURSIONS AT 100 ppm OR GREATERPERIOD COVERED 11-1/11-7-75

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
11-1-75	1303	✓ CENTER AISLE COLUMN #6, 2 nd fl. R Bldg.
11-2-75	0558	VCN PUMPS (TANK FARM)
	0643	VCN PUMPS (TANK FARM)
	0645	TANK CAR UNLOADING.
	0754	✓ #1 RECOVERY COMP. WALL, 1 st fl. R Bldg.
11-3-75	0407	'F REACTOR (PILOT PLANT)
	0712	✓ SOUTH WALL NEAR GELATIN MAKEUP, 2 nd fl. R Bldg.
11-6-75	1943	VCN PUMPS (TANK FARM)
	1945	TANK CAR UNLOADING.

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4/29/75