

TO J. T. Sweeney AT Flemington DATE September 9, 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: August 30, 1975 to September 5, 1975

Attached are area data summaries, summaries of excursions above 5, 25 and 100 ppm VCM and a listing of all excursions observed at or above 100 ppm VCM. Also included in this report and in all future reports is a summary of readings exceeding 1 ppm. Points #9 and 20 in the Reactor Building were removed from normal service on 9/2/75 and 9/5/75 respectively. These points are currently being used to define a clean air source for the proposed capsule in the Reactor Building.

The Plant has been in operation seven days for this report period running at about 70% 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 552 readings > 1 ppm, 4 excursions > 25 ppm and no reading > 100 ppm.

The Pilot Plant showed 317 readings > 1 ppm, 2 excursions > 25 ppm and no readings > 100 ppm.

The General Area showed 139 readings > 1 ppm 9 excursions > 25 ppm and no readings > 100 ppm.

The Lift Station showed 86 readings > 1 ppm, 2 excursions > 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. Nine readings at or above 100 ppm occurred during this report period reflecting four separate incidents. Three incidents occurred in the Reactor Building affecting the center aisle, stripper #1 platform, knock-out pots, day tank area and the west wall between the old styrene tanks. One incident occurred in the General Area affecting the tank car unloading area. No incidents occurred in the Pilot Plant during this report period.

W. C. Champion (RM)
W. C. Champion

WCC:ms

TABLE I
REACTOR BUILDING

Period Covered 8-30/9-5-75

	Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1	Center Aisle Column #2, 1st flr	165	0.6	11	2	0	0
2	Center Aisle Column #4, 1st flr	165	0.7	16	3	0	0
3	Center Aisle Column #6, 1st flr	165	0.6	14	3	0	0
4	#1 Slurry Transfer Pump, 1st flr	165	0.6	10	2	0	0
5	#2 Slurry Transfer Pump, 1st flr	165	0.5	7	1	0	0
6	DeFoamer Tanks, 1st flr	165	0.6	14	2	0	0
7	#1 Recovery Compressor Wall, 1st flr	165	1.3	26	8	1	0
8	#1 Recovery Vacuum Seal Pump, 1st flr	165	1.0	24	7	0	0
9	VCM Day Tank Pumps, outside	80	0.9	5	1	0	0
10	Center Aisle Column #2, 2nd flr	165	2.1	41	8	2	0
11	Center Aisle Column #4, 2nd flr	166	2.0	76	9	1	0
12	Center Aisle Column #6, 2nd flr	166	1.1	18	5	0	0
13	Stripper #2 Platform, manhole, 2nd flr	166	1.3	32	7	0	0
14	Panel Board Column #7, 2nd flr	166	0.6	9	0	0	0
15	Stripper #1 Platform, manhole, 2nd flr	166	1.4	32	8	0	0
16	Knock-Out Pots, 2nd flr	166	1.2	34	7	0	0
17	West Wall Between Old Styrene Tanks, 2nd flr	166	1.6	50	8	0	0
18	South Wall Near Gelatin Make-Up Area, 2nd flr	166	1.6	52	6	0	0
19	Stairwell in Hallway, 2nd flr	166	2.1	72	13	0	0
20	Outside, near left side door to weigh tank	150	0.6	9	3	0	0
	Total	3209	1.12	552	103	4	0

COLORITE 006399

R.A. Loje
4/15/77

TABLE II

PILOT PLANT

Period Covered 8-30/9-5-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
Dryer	166	0.2	1	0	0	0
Lift Station (future)	166	3.6	86	50	2	0
Pilot Laboratory	166	0.2	0	0	0	0
Centrifuge	166	0.9	22	1	0	0
"F" Reactor	166	1.4	54	2	0	0
Marshall Flume	166	0.8	12	1	0	0
Cooling Tower	166	1.7	79	1	0	0
Pump Switches	166	1.1	34	4	0	0
"E" Reactor	166	1.6	69	3	0	0
"B" & "C" Reactors	166	1.5	58	4	0	0
Total	1660	1.30	415	66	2	0

COLORITE 006400

R.A. Lojewsk
4/15/75

TABLE III
GENERAL AREA

Period Covered 8-30/9-5-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1. Truck Loading	166	0.3	7	0	0	0
2. Quality Control Laboratory, west	166	0.3	8	6	0	0
3. Quality Control Laboratory, east	166	0.2	6	0	0	0
4. Lunchroom	166	<0.1	0	0	0	0
5. Bulk Loading Tower	166	<0.1	0	0	0	0
6. Dryer Room	166	0.1	0	0	0	0
7. Bagging Seat	166	<0.1	0	0	0	0
8. Maintenance Shop	166	<0.1	0	0	0	0
9. VCN Pumps	166	5.1	67	42	8	0
10. Tank Car Unloading	166	1.4	51	13	1	0
Total	1660	0.84	139	63	9	0

COLORITE 006401

R.A. Loj
4/15/

EXCURSIONS AT 100 ppm OR GREATER

PERIOD COVERED 8-30/9-5

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
8-30-75	0110	WEST WALL BTWN. OLD STYRENE TANKS 2 ND FL. R. BLDG.
	0115	CENTER AISLE COLUMN #2, 2 ND FL. R. BLDG.
	0523	STRIPPER #1 PLAT. MANHOLE 2 ND FL. R. BLDG.
	0525	KNOCK OUT POTS 2 ND FL. R. BLDG.
	0528	VCM DAY TANK AREA OUTSIDE R. BLDG.
	0530	CENTER AISLE COLUMN #2 2 ND FL. R. BLDG.
8-31-75	0141	#1 RECOVERY COMP. WALL, 1 ST FL. R. BLDG.
	0143	#1 REC. VACUUM SEAL PUMP, 1 ST FL. R. BLDG.
9-2-75	1245	TANK CAR UNLOADING

R.A.L.
4/29/75