

TO J. T. Sweeney AT Flemington DATE September 16, 1975

FROM W. C. Champion AT Flemington COPY TO W. D. Bord
P. A. Lobo
R. A. Lojewski
W. Miringoff
F. X. Ritter
M. K. Rosen
G. I. Rozand
F. Toca

SUBJECT VCM Exposure Data - Flemington Plant
Bendix Monitoring System
Period: September 6, 1975 to September 12, 1975

Attached are area data 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. During this report period, points #9 and #20 in the Reactor Building were used to define a capsule clean air source.

The Plant has been in operation seven days for this report period running at about 80% 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 520 readings > 1 ppm, 7 excursions > 25 ppm and no readings > 100 ppm.

The Pilot Plant showed 203 readings > 1 ppm, 1 excursion > 25 ppm and no readings > 100 ppm.

The General Area showed 112 readings > 1 ppm, 7 excursions > 25 ppm and one reading > 100 ppm.

The Lift Station showed 93 readings > 1 ppm, 5 excursions > 25 ppm and one reading > 100 ppm.

The Parshall Flume showed 28 readings > 1 ppm and no excursions > 25 ppm.

All readings greater than or equal to 100 ppm are tabulated in Table IV. Twelve readings at or above 100 ppm occurred during this report period reflecting eight separate incidents. Five incidents occurred in the Reactor Building affecting the center aisle, panel board, #2 slurry transfer pump, defoamer tanks and the stairwell anteroom. One incident occurred in the General Area affecting the tank car unloading area. Two incidents occurred at the Lift Station while the Pilot Plant had no incidents this report period.

W.C. Champion (RAV)
W. C. Champion

WCC:ms

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REACTOR BUILDING

Period Covered 9-6/9-12-75

Monitoring Point

N $\bar{x}$ >1 >5 >25 >10

1	Center Aisle Column #2, 1st flr	164	1.0	24	7	0	0
2	Center Aisle Column #4, 1st flr	164	0.7	16	3	0	0
3	Center Aisle Column #6, 1st flr	164	1.2	25	7	0	0
4	#1 Slurry Transfer Pump, 1st flr	164	1.4	32	8	0	0
5	#2 Slurry Transfer Pump, 1st flr	164	1.2	24	8	0	0
6	Defoamer Tanks, 1st flr	164	0.9	15	1	0	0
7	#1 Recovery Compressor Wall, 1st flr	164	0.9	16	1	0	0
8	#1 Recovery Vacuum Seal Pump, 1st flr	164	1.0	24	8	1	0
9	VCM Day Tank Pumps, outside	0	SPECIAL		SPECIAL		
10	Center Aisle Column #2, 2nd flr	164	2.0	40	8	1	0
11	Center Aisle Column #4, 2nd flr	165	1.2	60	22	2	0
12	Center Aisle Column #6, 2nd flr	165	0.9	40	13	2	0
13	Stripper #2 Platform, manhole, 2nd flr	165	0.8	49	9	1	0
14	Panel Board Column #7, 2nd flr	165	1.2	31	5	0	0
15	Stripper #1 Platform, manhole, 2nd flr	165	1.1	45	16	0	0
16	Knock-Out Pots, 2nd flr	165	1.0	24	7	0	0
17	West Wall Between Old Styrene Tanks, 2nd flr	165	0.8	18	4	0	0
18	South Wall Near Gelatin Make-Up Area, 2nd flr	165	0.9	19	4	0	0
19	Stairwell in Hallway, 2nd flr	165	1.1	18	5	0	0
20	Outside, near left side door to weigh tank	0	SPECIAL		SPECIAL		

Total

2961 1.07 520 136 7 0

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R.A. Lojey
4/15/75

TABLE 11
PILOT PLANT

Period Covered 9-6/9-12-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
Dryer	164	0.2	5	0	0	0
Lift Station (future)	164	2.5	93	52	3	1
Pilot Laboratory	164	0.1	5	1	1	0
Centrifuge	164	0.2	12	0	0	0
"F" Reactor	164	0.8	39	2	0	0
Marshall Flume	164	0.9	28	1	0	0
Cooling Tower	164	0.2	11	1	0	0
Pump Switches	164	1.3	33	3	0	0
"E" Reactor	164	1.6	68	12	0	0
"B" & "C" Reactors	164	1.0	30	6	0	0
Total	1640	0.88	324	78	6	1

R.A. Lojews
4/15/75

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GENERAL AREA

Period Covered 9-6/9-12-75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1. Truck Loading	163	0.2	6	1	0	0
2. Quality Control Laboratory, west	163	0.3	4	2	0	0
3. Quality Control Laboratory, east	163	0.1	2	0	0	0
4. Lunchroom	163	<0.1	0	0	0	0
5. Bulk Loading Tower	163	<0.1	0	0	0	0
6. Dryer Room	163	0.1	1	0	0	0
7. Bagging Seat	163	0.1	0	0	0	0
8. Maintenance Shop	163	<0.1	0	0	0	0
9. VCM Pumps	163	2.5	52	31	6	0
10. Tank Car Unloading	163	1.0	47	21	1	1
Total	1,630	0.48	112	55	7	1

R.A. Loje
4/15/7

EXCURSIONS AT 100 ppm OR GREATERPERIOD COVERED 9-6/9-12-75

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
9-8-75	2015	CENTER AISLE COLUMN #2 2 ND R. BLDG.
	2017	CENTER AISLE COLUMN #4 2 ND R. BLDG.
9-10-75	0052	PANEL BOARD COLUMN #7 2 ND R. BLDG.
	0306	#2 SLURRY TRANSFER PUMP 1 ST R. BLDG.
	0307	DEFOAMER TANKS 1 ST R. BLDG.
	0946	LIFT STATION
	2001	LIFT STATION
9-11-75	0018	CENTER AISLE COLUMN #6 1 ST R. BLDG.
	1813	STAIRWELL IN HALLWAY 2 ND R. BLDG.
	0415	TANK CAR UNLOADING
	0429	" " "
	0545	" " "

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R.A.L.

4/29/75