

TO J. T. Sweeney AT Flemington DATE October 7, 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 27, 1975 to October 3, 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 87% 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 494 readings > 1 ppm, 15 excursions > 25 ppm and 1 reading > 100 ppm.

The Pilot Plant showed 595 readings > 1 ppm, 1 excursion > 25 ppm and no readings > 100 ppm.

The General Area showed 278 readings > 1 ppm, 20 excursions > 25 ppm and 4 readings > 100 ppm.

The Lift Station showed 43 readings > 1 ppm and no excursions > 25 ppm.

The Parshall Flume showed 107 readings > 1 ppm and no excursions > 25 ppm.

All readings greater than or equal to 100 ppm are tabulated in Table IV. Thirteen readings at or above 100 ppm occurred during this report period reflecting ten separate incidents. One incident occurred in the Reactor Building affecting the first and second floor center aisles. Nine incidents occurred in the General Area affecting the VCM pumps in the tank farm and the VCM rail car unloading area. There were no incidents in the Pilot Plant during this report period.

W.C. Champion(RAC)
W. C. Champion

WCC:ms

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REACTOR BUILDING

Period Covered 9/27 - 10/3/75

Monitoring Point

N $\bar{x}$ γ_1 γ_5 γ_{25} γ_{100}

1	Center Aisle Column #2, 1st flr	167	0.3	5	2	0	0
2	Center Aisle Column #4, 1st flr	167	0.3	7	2	0	0
3	Center Aisle Column #6, 1st flr	167	0.2	7	0	0	0
4	#1 Slurry Transfer Pump, 1st flr	167	0.1	4	0	0	0
5	#2 Slurry Transfer Pump, 1st flr	167	0.4	4	0	0	0
6	Debamer Tanks, 1st flr	167	0.3	2	1	1	0
7	#1 Recovery Compressor Wall, 1st flr	167	1.1	17	3	2	0
8	#1 Recovery Vacuum Seal Pump, 1st flr	167	0.9	22	3	2	0
9	VCM Day Tank Pumps, outside	SPECIAL					
10	Center Aisle Column #2, 2nd flr	167	1.2	15	5	1	1
11	Center Aisle Column #4, 2nd flr	168	1.4	37	8	2	0
12	Center Aisle Column #6, 2nd flr	168	1.2	30	5	0	0
13	Stripper #2 Platform, manhole, 2nd flr	168	1.5	52	9	0	0
14	Panel Board Column #7, 2nd flr	168	1.2	40	9	0	0
15	Stripper #1 Platform, manhole, 2nd flr	168	1.6	50	12	0	0
16	Knock-Out Pots, 2nd flr	168	1.5	45	11	2	0
17	West Wall Between Old Styrene Tanks, 2nd flr	168	2.3	49	22	3	0
18	South Wall Near Gelatin Make-Up Area, 2nd flr	168	2.2	54	21	1	0
19	Stairwell in Hallway, 2nd flr	168	2.3	54	18	1	0
20	Outside, near left side door to weigh tank	SPECIAL					

Total

3015 1.1 494 131 15 1

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R.A. Lojen
4/15/75

TABLE 11
PILOT PLANT

Period Covered 9/27 - 10/3/75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
Dryer	68	0.8	13	0	0	0
Lift Station (future)	68	1.1	43	5	0	0
Pilot Laboratory	68	0.9	10	1	0	0
Centrifuge	68	1.4	66	5	0	0
"F" Reactor	68	1.7	78	2	0	0
Marshall Flume	68	2.3	107	12	0	0
Cooling Tower	68	1.9	90	1	0	0
Pump Switches	68	2.8	101	20	0	0
"E" Reactor	68	2.3	97	6	1	0
"B" & "C" Reactors	68	2.8	140	9	0	0
Total	1680	1.8	745	61	1	0

-1.7
4.9

R.A. Lojews
4/15/75

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GENERAL AREA

Period Covered 9/27/75 - 10/31/75

Monitoring Point

N $\bar{x}$ >1 >5 >25 >100

1	Truck Loading	168	0.4	40	1	0	0
2	Quality Control Laboratory, west	168	0.2	18	0	0	0
3	Quality Control Laboratory, east	168	0.1	10	0	0	0
4	Lunchroom	168	<0.1	6	0	0	0
5	Bulk Loading Tower	168	<0.1	9	0	0	0
6	Dryer Room	168	0.1	11	0	0	0
7	Bagging Seat	168	<0.1	8	0	0	0
8	Maintenance Shop	168	<0.1	8	0	0	0
9	VCM Pumps	168	6.8	84	39	12	2
10	Tank Car Unloading	168	5.1	66	24	8	2
Total		1680	1.3	278	64	20	4

R. A. Loje
4/25/7

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TABLE IV

EXCURSIONS AT 100 ppm OR GREATER

PERIOD COVERED 9/27-10/3/75

DATE	TIME, HRS	AREA
9/27/75	0914	REACTOR BLDG., CENTER AISLE, 2nd FLOOR
	0930	" " " " 1st FLOOR
9/29/75	0112	VCM Pumps, TANK FARM
9/30/75	2227	VCM Pumps, TANK FARM
	0012	" " " "
	0057	" " " "
	0112	" " " "
10/1/75	0112	" " " "
	0227	" " " "
	0413	VCM RAIL CAR UNLOADING AREA
10/3/75	0915	" " " " "
	0930	" " " " "
	0945	" " " " "

RAL 009903
10/6/75