

TO J. T. Sweeney AT Flemington DATE December 23, 1975

FROM T. Cader AT Flemington COPY TO W. D. Bord
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SUBJECT VCM Exposure Data - Flemington Plant
Bendix Monitoring System
Period: December 13, 1975 to December 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 and #20 were taken out of special service on December 16, 1975 and returned to normal service.

The plant was in operation seven days for this report period running at about 97% 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 1,019 readings > 1 ppm, 48 excursions > 25 ppm and 5 readings > 100 ppm.

The Pilot Plant showed 214 readings > 1 ppm, 1 excursion > 25 ppm and no readings > 100 ppm.

The General Area showed 79 readings > 1 ppm, 11 excursions > 25 ppm and no readings > 100 ppm.

The Lift Station showed 33 readings > 1 ppm, 10 excursions > 25 ppm and 2 readings > 100 ppm.

The Parshall Flume showed 116 readings > 1 ppm, no excursions > 25 ppm and no readings > 100 ppm.

All readings greater than or equal to 100 ppm are tabulated in Table IV. Forty-one readings at or above 100 ppm occurred during this report period reflecting sixteen separate incidents. Eleven incidents occurred in the Reactor Building affecting the center aisle first and second floors, slurry transfer pumps, stripper platforms, recovery vacuum seal pump, south and west wall areas. Two incidents occurred at the tank car unloading area and three incidents occurred at the Lift Station. There were no incidents in either the General Area or Pilot Plant.

T. Cader
T. Cader

TC:ms

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REACTOR BUILDING

Period Covered 12/13 - 12/19/75

Monitoring Point

N $\bar{x}$ γ_1 γ_5 γ_{25} γ_{100}

1	Center Aisle Column #2, 1st flr	165	0.5	14	5	0	0
2	Center Aisle Column #4, 1st flr	165	1.2	20	6	1	1
3	Center Aisle Column #6, 1st flr	165	1.0	15	2	1	1
4	#1 Slurry Transfer Pump, 1st flr	165	1.0	10	3	1	1
5	#2 Slurry Transfer Pump, 1st flr	165	1.2	11	3	2	1
6	DeFoamer Tanks, 1st flr	165	0.8	13	3	2	0
7	#1 Recovery Compressor Wall, 1st flr	165	0.7	15	3	1	0
8	#1 Recovery Vacuum Seal Pump, 1st flr	165	1.1	23	6	1	0
9	VCM Day Tank Pumps, outside	90	0.6	11	4	0	0
10	Center Aisle Column #2, 2nd flr	165	1.5	35	15	1	0
11	Center Aisle Column #4, 2nd flr	164	4.0	72	32	5	0
12	Center Aisle Column #6, 2nd flr	164	2.1	55	14	2	0
13	Stripper #2 Platform, manhole, 2nd flr	164	10.3	120	80	17	0
14	Panel Board Column #7, 2nd flr	164	2.6	76	23	1	0
15	Stripper #1 Platform, manhole, 2nd flr	164	5.1	101	32	6	1
16	Knock-Out Pots, 2nd flr	164	4.3	109	35	3	0
17	West Wall Between Old Styrene Tanks, 2nd flr	164	3.0	93	22	2	0
18	South Wall Near Gelatin Make-Up Area, 2nd flr	164	4.1	110	49	1	0
19	Stairwell in Hallway, 2nd flr	164	3.6	105	44	1	0
20	Outside, near left side door to weigh tank	89	1.0	11	4	0	0

Total

3140 2.49 1019 385 48 5

R.A. Lojey
4/15/75

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TABLE 11
PILC PLANT

Period Covered 12/13 - 12/19/75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
Dryer	165	0.2	3	0	0	0
Lift Station (future)	165	4.9	33	19	10	2
Pilot Laboratory	165	0.2	2	1	0	0
Centrifuge	165	1.2	35	4	0	0
"F" Reactor	165	1.2	27	2	0	0
Parshall Flume	165	3.0	116	29	0	0
Cooling Tower	165	1.4	48	2	0	0
Pump Switches	165	0.8	17	2	0	0
"E" Reactor	165	1.4	31	2	1	0
"B" & "C" Reactors	165	1.5	51	4	0	0
Total	1650	1.58	363	65	11	2

R. A. Lojews
4/15/75

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GENERAL AREA

Period Covered 12/13/75-12/19/75

Monitoring Point	N	$\bar{x}$	>1	>5	>25	>100
1. Truck Loading	164	0.1	0	0	0	0
2. Quality Control Laboratory, west	164	0.2	3	2	0	0
3. Quality Control Laboratory, east	164	0.1	2	0	0	0
4. Lunchroom	164	0.1	2	0	0	0
5. Bulk Loading Tower	164	<0.1	0	0	0	0
6. Dryer Room	164	0.2	5	3	0	0
7. Bagging Seat	164	0.1	0	0	0	0
8. Maintenance Shop	164	0.1	0	0	0	0
9. VCM Pumps	164	3.6	36	21	8	0
10. Tank Car Unloading	164	1.4	31	6	3	0
Total	1640	0.6	79	32	11	0

R.A. Loje
4/15/7

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EXCURSIONS AT 100 ppm OR GREATER

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PERIOD COVERED 12-13/12-19

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
12-14-75	1651	*1 SLURRY TRANSFER PUMP, 1 ST FL. R BLDG
	2130	CENTER AISLE COLUMN #2, 2 ND FL. R BLDG
12-15-75	0247	CENTER AISLE COLUMN #4, 1 ST FL. R BLDG
	0248	" " " #6, 1 ST FL. R BLDG
	0252	STRIPPER #1 PLATFORM, MANHOLE, 2 ND FL. R BLDG
	0253	KNOCK OUT POTS, 2 ND FL. R BLDG
	0255	WEST WALL BTWN. OLD STYRENE TANKS, 2 ND FL. R BLDG
	0257	SOUTH WALL NEAR GELATIN MAKE-UP AREA, 2 ND FL. R BLDG
	0258	STAIRWELL IN HALLWAY, 2 ND FL. R BLDG
	2159	TANK CAR UNLOADING PLATFORM.
12-17-75	2229	" " " " "
	2359	" " " " "
	0217	CENTER AISLE COLUMN #4, 2 ND FL. R BLDG
	0220	STRIPPER #2 PLATFORM, MANHOLE 2 ND FL. R BLDG
	0757	SOUTH WALL NEAR GELATIN MAKEUP 2 ND FL. R BLDG
	1014	TANK CAR UNLOADING PLATFORM.
	1645	CENTER AISLE COLUMN #4, 2 ND FL. R BLDG
	1650	" " " #6, 1 ST FL. R BLDG
	1652	*1 SLURRY TRANSFER PUMP, 1 ST FL. R BLDG
	1654	*2 " " " " 1 ST FL. R BLDG
	1703	CENTER AISLE COLUMN #4, 1 ST FL. R BLDG
	1705	" " " #6, 1 ST FL. R BLDG
	1707	*1 SLURRY TRANSFER PUMP, 1 ST FL. R BLDG
	1709	*2 " " " " 1 ST FL. R BLDG

10-T-11

BAD 840
12/29/75

EXCURSIONS AT 100 ppm OR GREATER

(2)

PERIOD COVERED 12-13/12-19

<u>DATE</u>	<u>TIME, HRS.</u>	<u>AREA</u>
<i>Continued</i> 12-17-75	2033	CENTER AISLE COLUMN * 6, 2 nd RBLD9
	2030	LIFT STATION
	2045	" "
	2100	" "
	2115	" "
	2130	" "
	2145	" "
	2200	" "
	↓	
12-18-75	0015	LIFT STATION
	0120	STRIPPER * 2 PLATFORM, MANHOLE, 2 nd RBL2
	0150	" " " " 2 nd RBL2
	0205	" " " " 2 nd RBL2
	0230	LIFT STATION
12-19-75	0350	STRIPPER * 2 PLATFORM, MANHOLE, 2 nd RBL2
	0408	" * 1 " " 2 nd RBL2
	1541	* 1 RECOV. VACUUM SEAL PUMP, 1 st RBL2
	1935	STRIPPER * 2 PLATFORM, MANHOLE 2 nd RBL2

R.A.L.
01/12/76