



INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

P. O. BOX 471, TEXAS CITY, TEXAS 77590

TO (NAME) Mr. R. L. Frantz
COMPANY
LOCATION Texas City Plant

DATE February 20, 1975

COPY TO Mr. D. E. Deese
Mr. M. E. Eisenhower
Mr. R. P. Keefe
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Mr. R. W. Sesler
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SUBJECT VFA Analysis For VCI At The
Suspension/Non-Solvent Unit

The VCI data from the VFA instrument in the Suspension/Non-Solvent Unit for January is attached.

Table I shows a summary of the number of high readings for the period since the instrument was installed through January. Basically, the data shows that initially the number of high readings were decreasing but appears to have been relatively stable for the November-January period.

Table II shows the data by location for January. The current problem areas (based on the critical few-locations with 40 readings exceeding 25 ppm) are:

1. Tank Area 4, Ground Level - The high readings were primarily due to leaking pump seals on the VCM tanks in Tank Area 4.
2. The Off-Gas Recovery System - This system continued to dump seal water to the sewer because of inadequate control of the liquid level in the seal water tank. This is scheduled to be remedied by increasing the size of the motor valve and pipe from $\frac{1}{2}$ " to 1" by February 15. A mechanical seal was installed on the Nash Hytor compressor during January which should also decrease leakage.
3. Second Level, East line - Several causes were involved - leaking valves, plugged lines from the autoclaves, and vents from other areas of the Unit.

UCC 094510

4. The Compressor Room in Bldg. 119 - Although steps have been taken to eliminate leakage, the compressors still constitute a problem. However, entry of personnel into the room is seldom required.
5. Bldg. 119, S. Side, N.W. of Strip. Tank - Reasons listed were No. 2 blowdown tank to pad, recovered VCI pump seal leaking, and changing out pump in Tank Area 4.

Table III gives the number of readings above 25 ppm for each day in January by point number. This data shows particular days when one point may be the major contributor for that day.


F. L. Johnson

FLJ/st
Attachments

UCC 094511

TABLE I
VFA ANALYSIS FOR VCI
AVERAGE/DAY⁽¹⁾

	<u>Number of Points</u>		
	<u>Exceeding 50</u>	<u>Exceeding 25</u>	<u>Exceeding 10</u>
June 22 - July 21	19		
Aug. 19 - Sept. 5	11		
September	8		
October	5	12	
November (2)		18	74
December 1974		18	64
January 1975		16	
Feb		12	

(1) Out of 720/day, until Oct. 5 when it changed to 684/day.

(2) Changed sensitivity of VFA on Nov. 4 from 100 to 25 ppm, full scale.

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TABLE II
DATA FROM VFA ANALYZER FOR JANUARY

<u>Point</u>	<u>Location</u>	<u>No. of Readings Exceeding 25 ppm</u>	<u>% of Readings (tim less than 25 ppm</u>
1	Control Room B. 174	1	99.9
2	Downstairs, East line	25	98
3	Downstairs, North line	40	96
4	Downstairs, South line	16	99
5	Second level, East line	46	96
6	Second level, North line	24	98
7	Second level, South line	9	99
8	N. line, B-119, 1st level, W. end	12	99
9	B-127, Second level	14	99
10	B-119, N. side, Second level, center	7	99
11	B-119, N. side, 3rd level, center	14	99
12	Off-gas rec. facilities	54	96
13	B-119, compressor room	44	96
14	B-119, maint. room	41	96
15	B-119, S. side, NW of strip. tank	44	96
16	VCl unloading facilities	30	97
17	Tank Area 4, ground level	55	95
18	Pilot Plant Unit	8	98
19	Control room, B-120	<u>4</u>	99.6
	Average/day	16	

NUMBER OF READINGS ABOVE 25' FOR EACH DAY

He said did not work on Jun 10 and had start previous three or four days