



INTERNAL CORRESPONDENCE

514-149-2

CHEMICALS AND PLASTICS · SO. CHARLESTON PLANT · P. O. BOX 8004, SO CHARLESTON, WEST VIRGINIA 25303

To (Name) Mr. J. L. Palmer

Division

Location

Date July 11, 1980

Originating Dept.

Environmental Protection

Answering letter date

Copy to Mr. B. N. Gliatta
Mr. G. M. Robertson
Mr. D. H. Smith
Mr. J. L. Worstell
Mr. W. C. Young

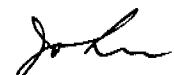
Subject VCM to IPH

Jeff:

A sample was taken from the VCM vent header to the Island Powerhouse on July 1, 1980. The results of the analysis are attached.

Calculations show 194 pounds per hour of VCM being sent to the powerhouse.

Very truly yours,


J. R. Soice

JRS:co

Attachment

UCC 103241

SAMPLE NO 11227 13.29 7/ 1/80

(2) VINYL CHLORIDE VENT HEADER B-151

TOTAL PRESS. = 57.17 MICRONS 11 ²⁰ AM 7-1-80 J.R. SOICE

PH 3022

406-283

NO.	COMPOUND NAME	MOL PERCT	WT PERCT	MASS NO.	BASE PK HGT
161	METHYL ACETATE	0.289	0.559	74	28.20
41	VINYL CHLORIDE	29.780	48.225	62	1741.88
160	METHYL FORMATE	0.037	0.058	60	1.74
240	ACETONE	0.032	0.049	58	2.98
40	METHYL CHLORIDE	0.009	0.012	50	0.44
15	CARBON DIOXIDE	0.169	0.194	44	10.27
11	ARGON	0.042	0.044	40	3.09
10	OXYGEN	0.578	0.483	32	26.30
140	ACETALDEHYDE	0.135	0.155	29	6.70
5	NITROGEN	68.499	50.095	28	3641.78
3	WATER	0.225	0.106	18	8.94
2	METHANE	0.014	0.005	16	0.59
1	HYDROGEN	0.185	0.009	2	5.76

Flow To IPH @ Bldg 154

5.5 CHART DIVISIONS $\Rightarrow$ 3750 SCFH

$$LB/HR = \text{MOL PERCT} \times \text{LB/LB-MOL} \times \text{CU FT/HR} \times \frac{1}{359 \text{ CU FT/LB-MOL}}$$

$$= 29.78 \times 62.5 \times 3750 \times \frac{1}{359}$$

$$= 194 \text{ LB/HR VCM}$$

IN VENT HEADER

$$194 \times \frac{36.5}{62.5} = 113 \text{ LB/HR HCL}$$

VENT FROM IPH

UCC 103242