

INTEROFFICE
MEMORANDUM

Date February 11, 1974

Subject VCM Exposure Data

To E. A. Ray/G. B. H. Speed

(Location, Organization, or Department)

From J. T. Barr

Valley Forge

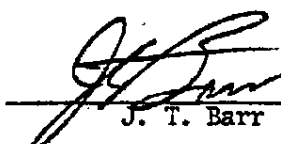
(Location, Organization, or Department)

cc: T. L. Carey
R. L. Fleming (2)
J. D. Kramer
A. K. McMillan

A. R. Adams
M. Spurlock

Please keep me advised on a regular basis, preferably weekly, on any data collected in your plant on VCM levels in the air, and in slurry and finished resin. A summary of process or equipment changes that affect these data will also be appreciated.

JTB:mmm


J. T. Barr

(320)

AP00035617

PVC MATERIAL BALANCE FOR EXISTING ESCAMBIA PLANT

Basis - 78 Million Pounds per Year PVC Resin

93.7% Efficiency on Resin Basis January Month to Date

Item	Pounds/Day	%	Explanation
Vinyl chloride charged	276,052	119.2	
Vinyl chloride recovered for reuse	44,462	19.2	
Net vinyl chloride to be accounted	231,590	100	
I. PVC Resin Produced	217,000	93.7	
II. VCl Losses			
A. Rail Car Discrepancies	1,300	0.57	Average measured billing difference per car over three months is 1,000 lbs/car (0.57%). Connoco has short-shipped and are allowed 1% difference under contract.
B. Solids Losses			
1. Wall fouling	1,600	0.69	Based on actual weight of reactor cleanings in plant.
2. Blend tank spills	100	0.04	
3. Centrifuge effluent	50	0.02	Based on Lab analysis of effluent streams.
4. Heavies, BB's, unusable floor sweeps to dump	3,300	1.42	Based on weights of material moved to dump from plant.
5. Bag collector exhaust	300	0.13	Based on sample analyses from exhaust.
6. Foam trap	100	0.04	Based on average solids removed from trap.
7. Solids from reactor & dryer washes	1,000	0.43	Based on analysis of wash water streams.
8. Abnormal charges	360	0.16	Based on plant experience October through December, 1973.
C. Vapor Losses from Vents			
1. Recovery condenser	500	0.22	Based on flow rates and Lab analysis of vent stream.
2. Blend tank	1,400	0.60	Calculated from free VCl analysis of slurry.
3. Recovered VCl evaporator condenser	400	0.17	Based on flow rates and Lab analysis of vent stream.
4. Reactor vacuum test	1,900	0.82	Calculated based on volume and average vacuum of 21"
5. Dryer air exhaust	43	0.02	Based on Lab analysis of stream.
D. Free vinyl chloride in dry resin	22	0.01	Based on Lab analysis of dry resin.
E. VCl in centrifuge effluent	10	--	Based on Lab analysis of effluent.
F. Unaccountable to close balance	2,205	0.95	Reflects leaks, pump priming and inaccuracies in sampling various vent points. Program has been set up to continue analytical work and obtain better data for balance.
Total VCl losses	14,590	6.3	

AP00035618