



Diamond Shamrock

file D.P. Plastics
I. H.

Interoffice Correspondence

To: V. F. Pisani
From: D. R. Muehlenbrock
Date: November 8, 1983

Subject: Safety, Environmental and VCM Reduction Report - October, 1983

D 118-D

cc: D. E. Black ~~FB~~
~~R. Christensen/L. Rabbe/P. Adams~~/R. Stannard - GCA
D. Henderson/G. Clark - Safety
D. C. Parkhill
G. O. Rabbe - EC
J. Worthington - Dallas
D. P. Tech File - 16.038 (2)

I. Personnel VCM Exposure

Personnel sampling during the month is summarized in this section of the report. There were two TWA values recorded during the month which were above 1 ppm. One of the values was 1.01 ppm and the other was 1.06 ppm. Both involved a head operator assigned to the task of charging polys. Records indicate that respiratory protective equipment was worn during each sampling period.

TWA EXPOSURE (PPM)

<u>Department</u>	<u>High</u>	<u>Low</u>	<u>Average</u>	<u>Samples</u>
Resin	1.06	0.10	0.60	9
LPS	0.07	0.05	0.06	2
Lab	0.13	0.13	0.13	1
Maintenance	0.31	0.10	0.18	6
Tech., Adm., & Plant	0.15	0.05	0.12	3
Overall Plant	1.06	0.05	0.34	21

II. Residuals

<u>Product</u>	<u>High</u>	<u>Low</u>	<u>Average</u>	<u>Samples</u>
PVC 426	22.11	0.62	9.86	8
PVC 450	19.64	0.02	4.06	26
PVC 500	16.86	0.08	1.82	28
EXP. & OG Resins	24.59	24.59	24.59	1

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III. Environmental Air

A. Leak Patrol

There were a total of 658 points checked and there were five new leaks detected. All five of the new leaks were fixed, leaving no leaks still needing repair at month's end.

B. There were no reportable VCM releases during the month.

C. There was one reactor opening above the standard during the month. No. 52 poly contained 2033 ppm when it was opened on October 28.

IV. Environmental Water

A. The highest level of VCM recorded for any of the process water sewers during the month was 3.72 ppm. This was the effluent from the No. 1-4 Plant Sump.

The highest level of VCM in the storm sewers was 0.01 ppm.

B. There were no violations at No. 004 Outfall during the month.

C. Wastewater Stripping

There were no violations of the 10 ppm standard during the month.

V. Reclaim System Flare

	<u>Month</u>	<u>Permit Y-T-D*</u>
Flare Use in Hours	0	* 8 Hr. 45 Min.
*Permit year is 2/1 to 2/1.		

VI. Environmental Statistics

	<u>Month</u>	<u>Y-T-D</u>
A. <u>Suspension Stripping</u>		
Daily Average (ppm)	87.3	67.3
Days Above Standard Limits	1	2

On October 22nd, the weighted average of the stripped slurry was 414 ppm.

B. <u>Wastewater Stripping</u>	<u>Month</u>	<u>Y-T-D</u>
Daily Average (ppm)	2.12	1.41
Days Above Standard	0	7

<u>C. Reactor Openings</u>	<u>Month</u>	<u>Y-T-D</u>
Number of Charges	1,706	16,661
Number of Reactors Sampled	24	229
Number of Above Standard Limits	1	6
Percent Above Standard Limits	4.2	2.6
Charges/Openings	1/1	1/1

D. Total Reportable VCM Releases

Number of Releases	0	2
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E. Outfall 004

Number of Samples Above NPDES Permit	0	3
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VII. Total VCM Emissions from Stripping and Reactor Openings

<u>A. Suspension Resin Stripping</u>	<u>Month</u>	<u>Y-T-D</u>
EPA Permitted Emissions - lbs.	4,408	43,720
*Texas Permitted Emissions - lbs.	1,322	13,116
Actual VCM Emissions - lbs.	962	7,403
Over/(Under) - lbs. (Texas)	(360)	(5,713)

*Permitted based on 280 MM lb/yr. production by State of Texas
 (allowable residual @ 120 ppm).

B. Reactor Openings

Permitted VCM Emissions - lbs.	220	2,185
Actual VCM Emissions - lbs.	172	1,794
Over/(Under) - lbs. (Texas)	(48)	(391)

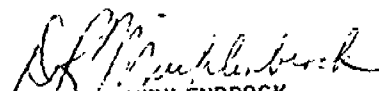
C. Totals

EPA Permitted Emissions - lbs.	4,628	45,905
Texas Permitted Emissions - lbs.	1,542	15,231
Actual VCM Emissions - lbs.	1,134	9,197
Over/(Under) - lbs. (Texas)	(408)	(6,034)
% of Permitted Emissions (Texas)	73.5	60.4

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VIII. Injury Report

	<u>Lost Time Cases</u>		<u>Lost Work Cases</u>		<u>Recordable Cases</u>		<u>First Aid Cases</u>	
	<u>Mo.</u>	<u>YTD</u>	<u>Mo.</u>	<u>YTD</u>	<u>Mo.</u>	<u>YTD</u>	<u>Mo.</u>	<u>YTD</u>
Resin #3/4	0	0	0	0	0	0	5	22
Maintenance	0	0	0	0	0	0	0	2
Lab	0	0	0	0	0	0	0	0
LPS	0	0	0	0	0	0	0	1
Tech. & Adm.	0	0	0	0	0	0	0	0
TOTAL PVC	0	0	0	0	0	0	5	25


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