



TO D. E. Savoy

DATE June 7, 1978

FROM W. E. Cleary *WEC*

SUBJECT VDC Emissions

As a result of the VDC Emissions Meeting with Dravö hel / in Lake Charles on May 24, 1978, Process Engineering was asked to determine if the Per-Tri heavies still and Per stills vents required processing for VDC emission control and, if so, to develop a schedule to completion for a system to handle the vents.

The Per-Tri vent scrubber currently handles four vent streams as follows:

1. Per-Tri and No. 1 and No. 2 Tri stills
2. No. 1 and No. 2 Per stills
3. Topping still
4. Per-Tri heavies still

On June 5, 1978, gas samples of the vent scrubber exhaust were taken by Laboratory personnel with streams (1) and (3) cut away from the scrubber. The exhaust opening was covered with visqueen to eliminate air dilution. An approximately four-inch aperture was cut in the visqueen to facilitate gas sampling. Before sampling, the vent scrubber was allowed to stabilize for about 30 minutes after the two vent streams had been cut away. Operating conditions on the still line at the time of sampling were as follows:

<u>Still</u>	<u>Feed GPM</u>	<u>Reflux GPM</u>	<u>Recycle GPM</u>	<u>Steam #/Hr.</u>	<u>Vent Pressure PSI G</u>
No.1Per	15	19	1.5	2,750	0.2
No.2Per	19.5	21	0	4,900	0
Heavies	43	300	-	34,000	2.6

Laboratory analyses of the samples taken are attached to this memorandum.

On the basis of the results of the two grab and two fifteen-minute continuous samples taken, it is concluded that the vent streams in question, using our current guideline of 10 ppm VDC maximum allowable, pose no problem and do not require additional processing for VDC emission control.

edh

cc: T. G. Taylor, J. B. Alleman, G.K. Jordan/R.P. Byars/D. E. Wiley, M.C. Clary/
S.P. Mayeux, W.J. Peard

Attachment

PPG INDUSTRIES, INC.
INDUSTRIAL CHEMICAL DIVISION
LAKE CHARLES, LOUISIANA

Laboratory Department

Date: 6-6-78

Analyst: B.B., W.H., MWW

Filing Data: VDC Emissions

Analysis of: P/T Vent Scrubber Emissions During
Venting of Per Stills and Heavy Still ONLY

6-5-78 (1656-1711 hrs) 3.8 ppm $\frac{1}{2}$ VDC *

" (1717-1732 hrs) 4.4 ppm $\frac{1}{2}$ VDC *

* Collected on activated carbon tubes and
extracted with CS_2 . Extract analyzed via FID-GC.

6-5-78 (1654 hrs) < 5 ppm $\frac{1}{2}$ VDC **

" (1715 hrs) < 5 ppm $\frac{1}{2}$ VDC **

** Grab Samples in Gas-Tight Syringes. Analyzed via
FID-GC directly.

cc: Bill Cleary
C.P. Le Blanc
T. Miller
H.J. Hoehes/Lab File
M. Wood

Mark Wood

PR: INDUSTRIES, INC.
INDUSTRIAL CHEMICAL DIVISION
LAKE CHARLES, LOUISIANA

Laboratory Department

Date: 6-5-78

Analyst: B.B., W.H., M.W.

Filing Data: VDC Emissions

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