

Monsanto

FROM (NAME & LOCATION)

W. B. Dunlap - Anniston Plant

DATE : April 1, 1971

CC: W. G. Baker
J. L. Corder
V. R. Haupt
J. C. Landwehr
J. L. Murphree

SUBJECT : SOLID AROCLOR EVOLUTIONARY OPERATION

REFERENCE : *This copy for*
TO : G. W. Miller

Since January 1, we have been operating Phase II of the yield optimization EVOP in Aroclor 5460. This involved an extension of the controlling variables (Chlorinator Crude Softening Point) in the direction of optimum yields, as shown by the first phase.

Since January 1, approximately 34 still batches have been run but only 2 of these have contributed to the Evolutionary Operation study. The problem has been incomplete recording of essential batch data by the operators. The feeling has been expressed by still operators and the foreman that the work load is too high to expect the operator to stick the still receiver and record outage on the #2 still batch. You have indicated that you thought it was not wise to insist on this data being continued at this time.

In this case I suggest, with regret, that the Evolutionary Operation study for yield optimization be suspended, but that the improved batch sheets be continued in use.

Following are the best conditions revealed by the study, to date. They demonstrated over 3 months an improvement of 4%, and I recommend that the process be stabilized at these conditions for maximum yields.

OPTIMUM CHLORINATOR-STILL SETTINGS AROCLOR 5460

Chlorinators #10, #11

Soft. Pt. for #1 still batch = 109°C.
#2 still batch = 109°C.

Still #5

Pressure after pulldown = 6 mm max.
Pressure during distillation = 14 mm max.
Gas rate = 2,050 (20.5 on chart)
Cut-off of #1 batch at level alarm (approx. 365°C.)
#2 batch at 375°C.

DSW 552064

The work on Softening Point-Density relationship on #10 and #11 chlorinators must be continued to provide the necessary data for evaluating density control. This means that the following data should be recorded on the special data sheets which you started and I have continued to provide:

#10, #11 CHLORINATOR DENSITY-SOFTENING POINT
RELATIONSHIP

Batch No.	Record This Data	80% Alarm	Density Alarm	Final Point
	# Chlorine			
	Density			
	Soft. Point			

A revised data sheet is attached to replace the two data sheets now needed. No additional testing is required. I will continue to search for a setting on the density meters which will sound the alarm at the final point.

Your comments, and comments from those receiving copies of this memo, will be appreciated.



W. B. Dunlap

:kd
Attachment 1

DSW 552065

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AROCLOR 5060 CHLORINATOR CONTROLS DATA

[illegible]

It is important that numbers are all collected in the shortest time.

Put down actual values. Show pounds of chlorine when sample is caught at 80% - not just 12,200 every time.

Finished numbers are taken when Cl₂ valve is first closed. If you restart chlorinator, DO NOT use actual final numbers.

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