

Inter-Office Memo

TENNECO CHEMICALS, INC.

To:	H.B. Carr	At Burlington	Date:	12/19/69
From:	F.W. Kanzler	At Burlington	Copy to:	R.S. Cole
Subject:	Monomer Recovery System			H.H. Duhamel
	Project No. 70-001			J.C. Fisher
				E.J. Hourihan
Reference:	Memo to H.B. Carr from F.W. Kanzler			C.W. Johnston
	Dated November 13, 1969			M.W. Williams(2)
				/ File

As outlined in the referenced memo, p-Dimethoxybenzene levels were monitored in the recovery system of the Copolymer Plant.

Since an analysis of the Hold Tank is representative of the recovered monomer charged, no analyses of the Vinyl Acetate Sump were made after the initial analysis of the Sump on November 11, 1969. The values found for the Sump were 20 ppm p-Dimethoxybenzene, phenol not detected. The relative high levels of p-Dimethoxybenzene in December (see graph attached) are suspected to be attributable to the reduced charge of recovered monomer during special charges in the Copolymer Plant, resulting in a build-up of the inhibitor level. Production found indications of a reduction in the polymer build-up. This is based on the reduced frequency of the Cuno filter changes. A conclusive evaluation can only be made at the time of the inspection of the Hold Tank. An inspection of the Hold Tank is scheduled for March, 1970. The inspection will show if a decrease of the polymer build-up is effected by the inhibitor addition, since the timing for the tank inspection is normal. No change of kinetics has been noted in the Copolymer Plant since the start of the inhibitor addition. A revised method for analysis of peroxides in recovered monomer is in the development stage.

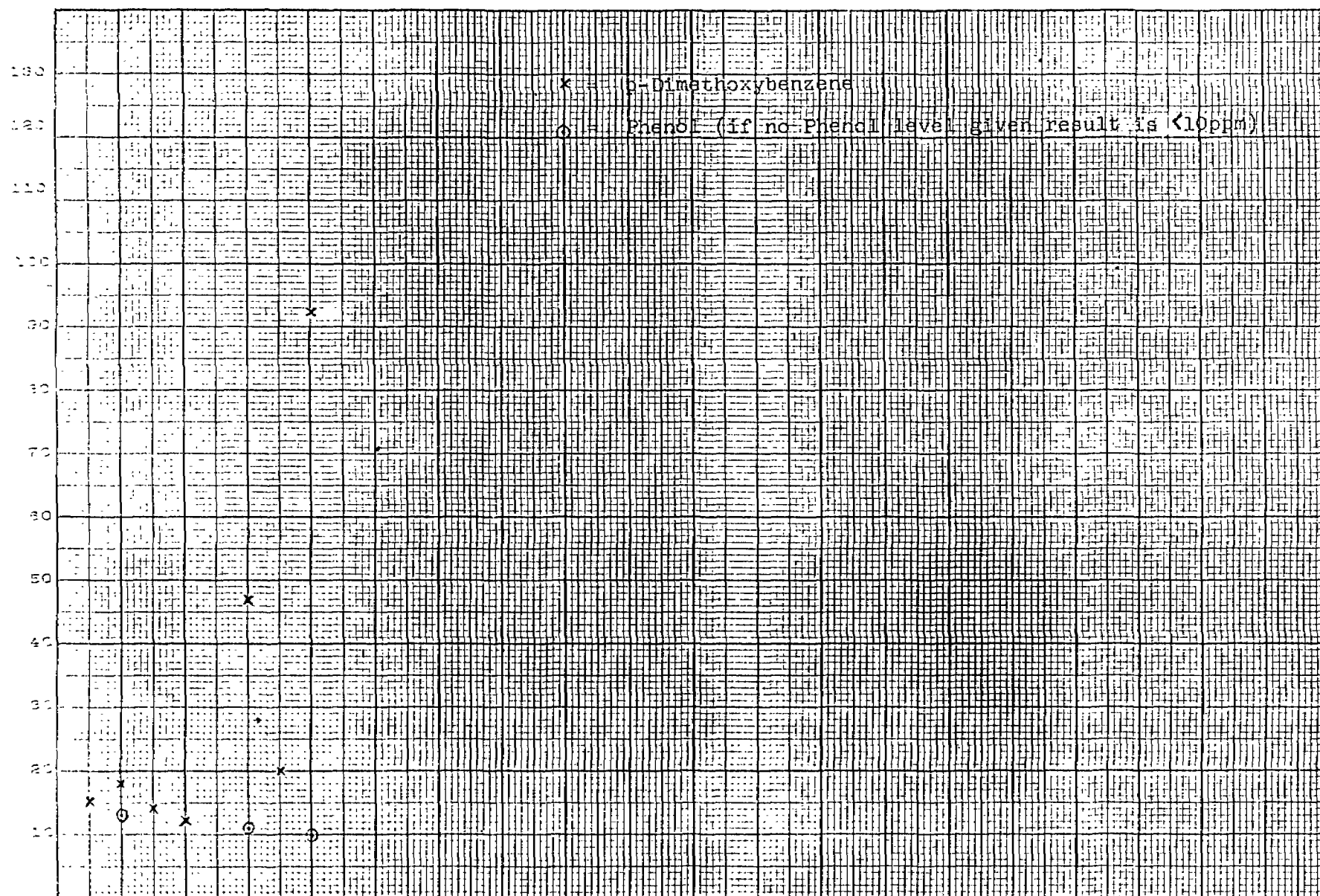
The attached graph shows the levels of p-Dimethoxybenzene and phenol in the Copolymer Recovery Hold Tank. The graph will be incorporated in the In-Process Testing Report.

F.W. Kanzler
F.W. Kanzler

Attachment.

FWK/jt

Inhibitor in the Copolymer Recovery System
Copolymer Hold Tank



11 17 19 25 2 9 18
November December

COLORITE 016176

INTER-OFFICE MEMO **TENNECO CHEMICALS, INC.**

TO M.C. Spalding AT Flemington DATE December 19, 1969
FROM F.W. Kanzler AT Burlington COPY TO H.B. Carr
C.W. Johnston
SUBJECT Bound Acetate Analysis by Infra Red M.W. Williams
Spectrophotometer *✓ File copy*

As we had discussed previously, Mike, the bound acetate analyses do not correlate as anticipated between the A&E laboratory and the Burlington Analytical Control laboratory. The latest results (Request No. 1824) are a case in point. The two samples run were of the 385 type copolymer resin with a specification range of 13.5-15.3% bound acetate. The expected acetate level as per charged vinyl acetate monomer would be 14.5-15.5%. These numbers are based on past conversion data. The reported Flemington and Burlington results compare as follows:

<u>Lot Number</u>	<u>Flemington</u> <u>% Bound Acetate</u>	<u>Burlington</u> <u>% Bound Acetate</u>
659080	17.0	14.8
659081	15.8	14.6

On the basis of the results, would you please rerun the samples in question. At the same time a review of the handling practice by the technician might be in order.

Fred W. Kanzler
Fred W. Kanzler

FWK/jt