

CONFIDENTIAL.

To Dr Horton
for return to me after meeting

THE ASSOCIATED ETHYL COMPANY LIMITED NORTHWICH CHESHIRE

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OUR REF. MZF/4(d)

YOUR REF.

DATE

15/12/50

Dr. R. A. Kehoe,
University of Cincinnati,
Kettering Laboratory of
Applied Physiology,
Eden Avenue,
CINCINNATI,
U.S.A.

Dear Dr. Kehoe,

I have to acknowledge receipt of your letter of the 6th December, regarding the possible production of undesirable heavy ends in our proposed ethyl chloride/dichloroethane processes. It is not clear from your letter whether you had by then received mine of the 2nd November.

I am afraid I can add very little to the information contained in that letter, at any rate at this stage, other than to advise you that Shell Development have made arrangements to have despatched to you one sample of the heavy ends which apparently is in existence from their pilot plant operations. I believe that the quantity is only in the order of a litre, so that it may be difficult to examine this satisfactorily, in view of the relatively small quantity (half percent) of the residual heavy ends which these bottoms contain.

With regard to your specific query as to whether the process involves the cracking of paraffin gases to olefins, I can say that this practice will not be involved specifically at our plant. We plan to receive from the Shell Refinery at Stanlow, two streams, one of which is ethane rich, the other being ethylene rich. The specified analysis of these two streams is as follows.

	<u>Ethane Rich Stream</u>	<u>Ethylene Rich Stream</u>
Methane % M	-	2.0
Ethylene "	9.5	90.0
Ethane "	90.0	7.5
Acetylene "	-	0.5
Propylene "	0.5	-
	<u>100.0</u>	<u>100.0</u>