

PX-1336

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LOCATION-PHONE: D. J. Metherd - WKK

August 29, 1979

cc: D. B. Edwards - B3SD
P. T. Kirk
F. B. Matthews

SUBJECT: Dioxin Formation

REFERENCE:

TO:

[Handwritten notes: "Dave", "J.D. Williams", "hera... to"]

D. C. Armstrong
D. K. Lynch

The process change to delete caustic from the chlorophenol still charge has dramatically improved the formation of dioxins. Still we find "we think" something which analytically could be the 2,3,7,8 TCDD in the still residue. Considering the known routes of dioxin formation (i.e. condensation or chlorination of lower dioxins) it seems to say we are forming the 2,3,7,8 by the latter route.

In all of our analyses we do not quantify anywhere the unchlorinated dioxin. Could this material be in the phenol recycle stream which goes back to the chlorinator? Since we presently have more demand for the fractions than we have material available, it would be a simple solution to eliminate recycle and sell the excess fractions. Can we test this theory?

[Handwritten signature: "Dave"]

D. J. Metherd

ds

[Handwritten notes: "We can test if we can get the additional..."]