Monsanto

FEB 15 1967

FROM (LOCATION): St. Louis - General Office

DATE: February 14, 1967

SUBJECT: Use of Aroclor as a Steel Quench Medium

REFERENCE:

TO: E. F. Wheeler - EWHEE

cc: C. P. Duncker - CDUNC
W. R. Richard - WRICH
McE/McH/REH/CLE/HJH

df: FF-Heat Transfer - Duplex Quench

Make separate file
Book - in Book 1242
Folder

We are assessing commercial use of Aroclor as a metal quench fluid in a Duplex Quench process. In preliminary discussions the usual questions of toxicity of the product have been raised. Because of our past experience with Aroclor we assume there is no major toxicity problem, but since this is a new use, we would appreciate your assessment.

In terms of exposure the Aroclor would be the lower layer in a two layer quenching tank with water on top. Hot steel pieces would be quenched first in the water layer and then dropped into the Aroclor. These pieces would then be removed and personnel exposed to the metal with a presumed coating of Aroclor. These pieces would be given either a solvent or hot alkaline water wash. Following this, pieces would be tempered in an air oven at temperatures in the 600 to 900°F range. It is possible that some users would like to temper parts without using intermediate washes.

With this brief description, perhaps you can determine whether we could anticipate toxicity problems due to this type of exposure to manufacturing personnel. If you need more detailed discussions, I would suggest we do this in conjunction with research who have the greater experience with the technique.

D. J. Massey

4-4223

sl

3/6/64 - Relayed summary of attached Memo to Del Massey by phone.
E

DSW 282897

IN-10 REV. 8-64

STLCOPCB4064226