PR&D WORK PLAN

cc J. T. Bell
V. R. Haupt
J. C. Landwehr
G. L. Jessee
G. W. Miller
H. L. Williams
G. L. Arnett
J. L. Brown
W. H. Howard
E. G. Wright
J. R. Savage - G.O.
P. O. DeGarmo - Queeny
W. R. Richard - G.O.
P. B. Hodges - G.O.
J. E. Smith - G. O.

DATE: April 27, 1970

SUBJECT: Aroclor Pollution Study

DEPARTMENT: 916.07

JUSTIFICATION: Reduce polychlorinated biphenyl and terphenyl content of plant waste water.

COST:

Estimated per diem PR&D Cost	$87
Mandays	10
Total Estimated Cost	$870

EXPERIMENTAL:

1. Run adsorption isotherms with the waste water at 10°C and ambient temperatures utilizing the following absorbents:

   a. Carbon (different types)
   b. Attapulgus clay
   c. Porocel
   d. Silica
   e. Molecular sieve
   f. Aroclor 5460

   Target Completion Date 5/8/70

2. The data obtained in the above test will dictate the direction of future work. Another work plan will be issued upon completion of this work plan.

SAFETY: The waste water effluent from the Aroclor department contains mainly HCl and Aroclor (i.e., in low concentrations). HCl fumes and acid are very corrosive to the skin and mucous tissue. Repeated exposure to Aroclor can cause a condition of chlorance. Hence, any area exposed to the waste water should be washed thoroughly with copious amounts of water. If exposure is in a critical area as the eyes, consult a physician.

Ishmael Ransaw

Ishmael Ransaw

/bs