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Project:

Electrical Fluids - Part VI - Air and Water Pollution
Control

Objectives:

1. Follow developments in analytical chemistry leading to more sensitive and specific methods for identifying Aroclors in our environment.
2. Keep in touch with laboratories doing research on environmental contamination by Aroclors including Universities, FDA, USDA, Fish and Wildlife Service.
3. Study present methods for disposal of Aroclors and if necessary develop safer ones.
4. Assess possible toxic effects on humans.

Justification:

During studies of the fate of chlorinated organic insecticides, biochemists have isolated unknown chlorinated hydrocarbons which they have tentatively identified as chlorinated biphenyls. These have been shown to be present in some fish, birds, and wild animals from certain areas at concentrations in the parts per million range. Public health authorities have therefore felt that it was necessary to determine whether or not environmental contamination by chlorinated biphenyls is a hazard to human life or health. It is vital that we cooperate in these studies so that we can be sure that the results are valid and so that we can assess the impact of the findings on the Aroclor business. We may need to cooperate in developing disposal procedures which will not result in harmful contamination in order to avoid restrictive legislation.

Status:

At present, we are collecting all available information on this problem. The Medical Department is following the toxicology and will start a test program at Calandra Labs to determine biological effects of trace Aroclor. Research will evaluate the validity of the published analytical identification. Samples of Aroclors, and in some

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Approved - by lead to restrictive Fed. Stat. regulations on...

Status: (Continued)

cases of pure chlorinated biphenyl isomers are being made available to government and university laboratories working on this problem for use as calibration standards.

Plans:

<u>Responsibilities</u>	<u>Job</u>	<u>Target Date</u>
REK/ST	Assess validity of analytical methods used by workers in this field.	3/69
WRW/EW/ST	Collect information on all work being done by others in this field.	Continuing
PB/JB/PH	Determine present disposal methods for Aroclors.	3/69
REK/ST Elmer Wheeler	Toxicology Review with government agencies, Research Institutes. (Start outside test program.)	8/15/68

Manpower Assignments:

R. E. Keller/Scott Tucker
W. R. Richard
Elmer Wheeler/P. Hodges
P. Benignus/J. Bryant

<u>Total Man-Years 1968</u>	
<u>T.</u>	<u>Nr.</u>
1.1	
.1	
.3	

Estimated 1968 Costs:

\$25,000 (Calandra Labs for '68)
\$25,000 (Metabolic Study)

Job No. Applicable

1630328

Sponsors: E. Wheeler/Scott Tucker July 18, 1968
P. Benignus/R. H. March

September 11, 1968

FF

Dr. R. E. Kelly
Dr. Scott Tucker
Mr. Cunningham
Mr. Cunningham

Proposed Protocols for Aroclor/Toxicity
Studies at Industrial Bio-Test Lab.

TO : Dr. W. R. Richard

Attached is a copy of a letter from Industrial Bio-Test
and proposed protocols for Aroclor toxicity studies.
This arrives just as I am leaving for two weeks.

I will take this material with me and if possible send
you my comments before the end of next week. If it
appears desirable to have a session with Dr. Kelly
and Bill Hunt to discuss this matter before I return,
I am sure Dr. Kelly will be happy to see you.

EPW
Elmer P. Wheeler

EPW:cjs

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