Monsanto

FROM (NAME & LOCATION): W. R. Richard - Research Center

DATE: December 9, 1968

SUBJECT: AROCLOR TESTING

REFERENCE:

TO: E. Wheeler - EWHEE

cc: E. Tucker JFQ
R. Keller JFQ
W. Johnson WJOHN
K. Wells KWELL
P. Benignus/J. Bryant PBENI
R. Munch JFQ

The issues on Aroclor toxicity testing are complicated. I know you plan to issue written program objectives. My understanding after last meeting 12/6/68 is as follows:

1. Determine whether Jensen and Co. really have Aroclor or not in tissue of birds:

   (a) by putting Aroclor through rats and chickens and seeing if we get the same or different peaks than found in Jensen paper. (Use mass spectrograph for check.)

   (b) by getting hold of tissues from nature which others say is Aroclor but which could be many other compounds. Use mass spectrograph to check vs. known Aroclor results.

2. Determine a tolerance level for Aroclor in feeding studies. Run a material balance on Aroclor to find out where it ends up.

3. Determine whether Aroclor is an enzyme inducer which affects steroids and Ca metabolism. (I really don't know what I am saying here but you can clarify.)

4. Keep track of what Govt. research labs are doing in way of testing, plus interpret their results for Monsanto.

5. Keep track of what Govt. research labs are finding in the way of geographical location of so-called PCB peaks, and in what species of animals. What does this mean in the way of product control by Monsanto. Check with Johnson of Callandras Laboratories.

6. Contact Baeyer in Germany to see if they have taken any action. Keep track of Japan incident through [illegible].

EXHIBIT
WBP M-29

WRR

W. R. Richard

MONS 096503

TOWOLDMON0003292
WATER_PCB-00000314

12/20/68

December 20, 1968

Dr. Joseph C. Calandra
Industrial Bio-Test Laboratories, Inc.
1810 Frontage Road
Northbrook, Illinois 60062

Dear Joe:

FF This letter authorizes the initiation of two of the proposed Aroclor studies as follows:

Project No. BTL - Aroclor I-Fowl - Gross Toxicity

Ia - Aroclor 1242
Ib - Aroclor 1254
Ic - Aroclor 1260
Id - Aroclor 5460
Ie - Toxaphene
If - DDT
Ig - Chlorinated naphthalene

The protocol for these studies is to be consistent with our discussions when you were in St. Louis and I would appreciate receiving a note from you outlining what you plan to do with an approximate cost.

Project No. BTL - Aroclor II - 30 Day Rat Tissue Study

IIa - Aroclor 1242
IIb - Aroclor 1254
IIc - Aroclor 1260
IId - Aroclor 5460
IIe - Toxaphene
IIf - DDT
IIg - Chlorinated naphthalene

EXHIBIT
WBP M-29.1

MON-MT-008606

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WATER_PCB-00000315

These studies are to be carried out as proposed in your protocol submitted with the letter of Dr. Fancher dated September 9, 1968. That letter indicates a cost of $2,700 for three of the Aroclors, Toxaphene and controls. Further it indicates that additional materials could be included for $600 per material. Since we are adding additional Aroclor, DDT and chlorinated naphthalene I assume that the rat tissue study will cost approximately $4,500.

We are obtaining samples of several chlorinated naphthalenes and will provide you the material to be investigated.

Do you have a readily available source of DDT or shall I get this for you through our Agricultural Chemical Group?

I have enclosed a copy of my summary of our meeting when you were down here (as you and I discussed it). There is also a copy of Bill Richard's version.

I hope you have licked the flu bug and will have a happy holiday.

Sincerely,

Elmer P. Wheeler
Manager, Environmental Health

EPW:cjs

Enclosure

cc: W. R. Richard
R. E. Keller/Scott Tucker
C. Paton
W. K. Johnson
R. E. Kelly/W. H. Hunt

MON-MT-008607

TOWOLDMON0003294
WATER_PCB-00000316