WORK REQUEST FORM

ANNISTON TECHNICAL SERVICES DEPARTMENT

ORIGINAL TO T.S.D. FILES
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INITIATED BY	DATE	
D. B. Hosmer	10-8-64	This Copy For
COMPLETED BY	DATE	
J. G. Bryant	10-8-64	
DEPT. 826.08	PRODUCT AROCLOR	JOB NO. 370: 337

TITLE

MINUS 30 POUR POINT AROCLOR

STATEMENT OF PROBLEM AND OBJECTIVE (USE REVERSE SIDE IF NECESSARY)

Westinghouse desires an Askarel fluid with a pour point of -30°C. To achieve it, they are experimentally blending Aroclors 1242, 1248 and 1254, T.C.B. and T.T.C.B. Although the experimental blends are an improvement over present blends, they still contain 20-30% TCB or TTCB as a diluent. We believe if a 100% Aroclor (or closer to 100%) were developed, the electrical industry may go to it rather than continue these exotic blends. A 100% Aroclor, if acceptable, would certainly be favorable to Monsanto by increased Aroclor sales.

ESTIMATED SAVING ON OTHER BENEFITS

No direct savings will result from this work. However, the work is necessary to evaluate a material which could promote $50,000 @ year in increased Aroclor sales.

SUGGESTED APPROACH, REFERENCES, ETC.

Blend Aroclor 1221 and 1242 in appropriate weight percentage to obtain 1230, 1232, 1234, 1236, 1238, and 1240. The pour point should be checked as a function of the mix. Directly chlorinate to the desired chlorine range under present conditions and try to find some additive to dissolve the crystals or inhibit their formation. Also, tests will be conducted to shift the isomer formation by additives and by different catalyst during the chlorination.

PRELIMINARY EVALUATION (To be completed by Technical Service Dept.)

MANPOWER REQUIREMENTS

EVALUATION		MAN HOURS
CH. E. DES.		MAN HOURS
M. E. DES.		MAN HOURS
E. E. DES.		MAN HOURS
INSTR.		MAN HOURS
DRAFTING		MAN HOURS
START-UP		MAN HOURS
Proc.Res.	240	
TOTAL	240	MAN HOURS
TOTAL	30	MAN DAYS

NO. MEN	T.S.D. COST	ESTIMATED SAVINGS OR PROFITS	NEW FIXED CAPITAL
1	1920	To be determined	To be determined

COMMENTS

Our research contract with Westinghouse expires in November and they will most likely go to blends of Aroclor 1242, 1248, 1254, TCB or TTCB. In order to increase Aroclor sales, we must come up with a material giving the properties of these blends at a comparable price. We believe a suitable material to meet this need can be made.

ASSIGNED TO: J. G. Bryant

APPROVALS

Production Supt.	PLANT MANAGER	Technical Services Supt.
R. G. Moody	S/ J. R. McClain by L.C.F.	S/ L. C. Fuhrmeister

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