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MONSANTO COMPANY
Sauget, Illinois

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Disposition of Tentative Amendment "L" to the Standard Manufacturing Process for Aroclors, Department 246, dated October, 1966.

The objective of this amendment was to demonstrate the ability to produce electrical grade Aroclors from off-gas condensate. Up to the time of the amendment, both off-gas condensate and still bottoms "boildown" material was used only for non-electrical Aroclor 1248. Since this use is going to be reduced or eliminated, and alternate use is needed for both materials.

Two lots of Aroclor 1254 E.G. were produced using only off-gas condensate as the raw material. One lot of Aroclor 1254 E.G. was produced using part byphenyl and part off-gas condensate. Two lots of Aroclor 1254 E.G. were produced from "boildowns" and one lot from part biphenyl and part "boildowns." The analytical data from these tests are attached.

The data indicates that the Aroclor made from off-gas condensate was similar to material made from biphenyl. The material made from "boildowns" made poorer quality Aroclor as evidenced by Monsanto Stability (slightly out of specification) and Thermal Chemical Chlorides (significantly higher although there is no specification).

As a result of these tests and until the start-up of the MCS-1016 fractionator, off-gas condensate will continue to be used in Aroclor 1254 E.G. for all uses. Boildown material will be used in Aroclor 1254 E.G, but the product will be used only in transformer blends where a scavenger is available.

When the fractionator is started up, Aroclor 1254 is to be made from column bottoms and a re-evaluation of quality will be made at that time.

Wayne W.Krull

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DISPOSITION OF AROCLOR
OFF-GAS CONDENSATE AND BOILDOWN

Lot No.	Spec.	Typical	KM 648	KM 650	KA 601	KA 602	KA 603	KA604	KA 605
Raw Material*			OGC	OCG	BiØ	BiØ & OGC	BD	BD	BiØ & BD
TCC	---	---	0.37	0.44	0.41	0.47	1.01	0.94	1.00
Monsanto Stability	0.50**	0.35	0.48	0.37	0.38	0.40	0.52	0.56	0.52
Hyd. Stability	1.00**	0.10	0.07	0.10	0.21	0.12	0.23	0.22	0.07
West. Stability	---	---	0.23	0.21	0.25	0.32	1.13	0.27	---
PF @ 60 cyc., WGK	---	---	0.30	0.50	0.50	0.60	0.59	2.34	0.31
Resistivity x 10^9, WGK	500***	20,000	12,800	19,200	18,420	17,600	10,800	3,120	46,460
PF @ 60 cyc. So. 2nd	---	---	0.018	0.540	---	0.108	0.047	---	---
Resistivity x 10^{12}, So.2nd	---	---	2,659	296	---	14,894	110	---	---

*BiØ - biphenyl
OGC - off-gas condensate
BD - boildown

** Maximum
*** Minimum

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