

PCBs USED IN CAPACITORS

<u>PCB</u>	<u>Major Use Period</u>	<u>% PCB (Penta- chloro- and Higher</u>	<u>% PCB (Hexa- chloro- and Higher</u>
Aroclor 1254	1930-1952	77.0	23.0
Aroclor 1242	1952-Sept. 1971	9.0	1.0
Aroclor 1016	Oct. 1971-	1.0	0.01

Capacitor Fluids

Why Convert to Aroclor 1016?

1. 9-fold reduction in PCBs of pentachloro- and higher.
2. 100-fold reduction in PCBs of hexachloro- and higher.
3. Minimum industry testing required.

Capacitor Fluids

What Is The Effect of Aroclor 1016?

U.S. Capacitor Fluid Sales (1972): ~ 20 M lbs.

<u>If Aroclor Was</u>	<u>% Pentachloro- and higher PCBs Would Be*</u>	<u>% Hexa chloro- and Higher PCBs Would Be*</u>
1254	15,400,000 pounds	4,600,000 pounds
1242	1,800,000	200,000
1016	200,000*	2,000

*This does not mean amounts of PCB entering the environment.

IF ASKAREL (PCB) TRANSFORMERS FAIL AT 0.2%/YEAR

HOW MUCH PCB IS AFFECTED*?

	<u>Aroclor 1254</u>	<u>Aroclor 1242</u>
All PCB Homologs	24,000 lbs.	24,000 lbs.
Penta Chloro-and Higher	18,480	2,160
Hexa Chloro-and Higher	5,520	240

(Estimated PCB transformer fluid sales in U.S.
12 M lb./year)

* With incineration facilities available, not all
these amounts will enter environment.

IF CAPACITOR FAILURE RATE IS 0.2% PER YEAR
(WORST CASE)

PCB ESCAPE TO ENVIRONMENT* IS --

	<u>Aroclor 1242</u>	<u>Aroclor 1016</u>
All PCB Homologs	40,000 pounds	40,000 pounds
Penta Chloro- and higher	3,600	400
Hexa Chloro- and higher	400	4

*Assumes U.S. Fluid Sales of 20 M Lb./Year

PCBs PRESENT IN ASKAREL TRANSFORMER FLUIDS

	<u>% PCBs Pentachloro- and Higher</u>	<u>% PCBs Hexachloro- and Higher</u>	<u>Major Use Period</u>
Aroclor 1260	100	70	1930-1972
Aroclor 1254	77	23	1969-
Aroclor 1242	9	1	1968-