

Table 1
Vital Status of PCB Workers

	<u>Plant 1</u>		<u>Plant 2</u>		<u>Total</u>
	<u>Males</u>	<u>Females</u>	<u>Males</u>	<u>Females</u>	
Known to be alive	537	355	631	811	2,334
Known to be deceased	56	18	32	66	172
Unknown vital status	5(1%)	8(2%)	14(2%)	27(3%)	54(2%)
Total	598	381	677	904	2,540
Person-Years	9,813	6,290	10,318	19,199	45,620

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Table 2.

Observed and Expected Deaths (O/E) According to
Major Causes Among PCB Workers

<u>Cause of Death</u> (7th Revision ICD No.)	<u>Plant 1</u>		<u>Plant 2</u>		<u>Total</u>
	<u>Males</u>	<u>Females</u>	<u>Males</u>	<u>Females</u>	
All Malignant Neoplasms (140-205)	9/10.11	4/ 7.05	3/ 6.55	23/19.88	39/ 43.58
Nervous System (330-334, 345)	3/ 3.46	1/ 1.91	2/ 1.90	5/ 5.70	11/ 12.96
Circulatory System (400-448)	26/24.85	7/ 6.56	16/14.89	13/19.84	62/ 66.14
Accidents (800-962)	7/ 7.47	1/ 0.21	3/ 8.14	3/ 3.88	14/ 19.70
All Other Causes	11/14.21	5/ 6.50	8/10.46	22/16.65	46/ 47.83
All Causes	56/60.10	18/22.23	32/41.94	66/65.94	172/190.21

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Table 4
Observed and Expected Deaths According to Latency¹
Among PCB Workers

I. All Cancers

		Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected
< 10 yrs.	3	3.74	80	2	6.19	32	5	9.93	50
10-19 yrs.	5	6.84	73	12	9.58	125	17	16.40	103
≥ 20 yrs.	5	7.34	68	12	10.66	113	17	18.00	91

II. Cancer of Rectum (ICD = 154)

< 10 yrs.	0	0.10	-----	0	0.16	-----	0	0.26	-----
10-19 yrs.	0	0.17	-----	0	0.25	-----	0	0.42	-----
≥ 20 yrs.	1	0.21	476	3	0.26	1154*	4	0.47	851**

III. Liver Cancer (ICD = 155, 156A)

< 10 yrs.	0	0.07	-----	0	0.13	-----	0	0.20	-----
10-19 yrs.	1	0.12	833	2	0.21	952*	3	0.33	909**
≥ 20 yrs.	0	0.16	-----	0	0.23	-----	0	0.39	-----

IV. Cirrhosis of Liver (ICD = 581)

< 10 yrs.	1	0.61	164	0	0.76	-----	1	1.36	74
10-19 yrs.	0	1.07	-----	1	1.24	81	1	2.31	43
≥ 20 yrs.	0	0.97	-----	4	1.32	303	4	2.29	175

¹ Latency = number of years from date first employed in exposed job to the date of death or 1/1/76.

* p < 0.05

** p < 0.01

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Table 5.

Observed and Expected Deaths According to Length of
Exposure Among PCB Workers

I. All Cancers (ICD = 140-205)

	Plant 1			Plant 2			Plants 1 & 2		
	<u>O</u>	<u>E</u>	<u>SMR</u>	<u>O</u>	<u>E</u>	<u>SMR</u>	<u>O</u>	<u>E</u>	<u>SMR</u>
< 10 yrs.	6	6.69	90	12	11.88	101	18	18.57	97
10-19 yrs.	4	6.52	61	7	9.49	74	11	16.01	69
≥ 20 yrs.	3	3.95	76	7	5.05	139	10	9.00	111

II. Cancer of Rectum (ICD = 154)

< 10 yrs.	0	0.18	-----	0	0.30	-----	0	0.48	-----
10-19 yrs.	0	0.20	-----	2	0.25	800	2	0.45	444
≥ 20 yrs.	1	0.11	909	1	0.12	833	2	0.23	870*

III. Liver Cancer (ICD = 155, 156A)

< 10 yrs.	1	0.12	833	1	0.25	400	2	0.37	541
10-19 yrs.	0	0.14	-----	1	0.22	455	1	0.36	278
≥ 20 yrs.	0	0.08	-----	0	0.11	-----	0	0.19	-----

IV. Cirrhosis of the Liver (ICD = 581)

< 10 yrs.	1	1.12	89	1	1.22	82	2	2.34	85
10-19 yrs.	0	0.98	-----	0	1.12	-----	0	2.1	-----
≥ 20 yrs.	0	0.56	-----	4	0.65	615**	4	1.21	331

* p<0.05

** p<0.01

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Table 6

Concentrations of PCB's (Aroclor 1016) at Plant 1 - Taken April, 1977

A. Power Capacitor Manufacturing Facility

Job Titles	<u>Personal Air Samples</u>			Location	<u>Area Air Samples</u>		
	No. of Samples	Total Sampling Time (minutes)	TWA* (ug/m ³)		No. of Samples	Total Sampling Time (minutes)	TWA* (ug/m ³)
Recovery & Repair	2	840	298	Test & Paint	2	840	41
Salvage Operator	1	426	155	Assembly	2	851	29
EMF Operator	1	431	115	Shipping	1	426	16
Treat Helper	2	867	80	Storage	1	427	14
Treat Operator	2	731	66	Winding	1	420	3
Repair	1	422	50				

B. Small Capacitor Manufacturing Facility

Moveman (Sealing Area)	2	689	393	Soldering	2	782	476
Moveman (Testing & Soldering Area)	3	1306	220	Final Assembly	2	827	115
Testing	3	1290	218	Shipping	2	838	56
Packer	3	1287	199	Winding	2	828	54
Treat Operator	2	845	160	Can Manufacturing	2	836	51
Rework & Final Assembly	2	824	152	Cover Manufacturing	2	834	45
Maintenance	1	404	150				
Quality Tester	1	453	140				
Quality Packer	1	435	132				
Quality Tester	1	271	24				

* TWA is calculated over the total sampling time period.

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Table 7

Concentrations of PCB's (Aroclor 1016) at Plant 2 - Taken March, 1977

<u>Personal Air Samples</u>				<u>Area Air Samples</u>			
<u>Job Titles</u>	<u>No. of Samples</u>	<u>Total Sampling Time (minutes)</u>	<u>TWA* (ug/m³)</u>	<u>Location</u>	<u>No. of Samples</u>	<u>Total Sampling Time (minutes)</u>	<u>TWA* (ug/m³)</u>
Degreaser	1	381	1,260	Impregnation	2	176	810
Solder	3	884	1,060	Pump Room	3	1079	490
Tanker	9	2120	850	Testing	5	1424	320
Moveman (Soldering Area)	3	752	720	Pre-assembly	4	1213	140
Heat Soak Operator	3	872	630	Shipping	2	741	90
Tester	3	917	290	Winding	4	637	70
Pump Mechanic	1	377	280	Cover Manufacturing	3	1089	60
Floorman (pre-assembly)	6	1683	170	Office	2	741	50

* The TWA is calculated over the total sampling time period.