

POLYCHLORINATED BIPHENYL (PCB) COMPOUNDS OR MIXTURES

1. For each PCB compound or mixture produced or imported by your company, for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:
 - a. The total amount of each PCB compound or mixture produced or imported.
 - b. The name and address of each of your company's facilities which handle PCB compounds or mixtures . (including production facilities and wholesale and retail outlets), and the amount of each PCB compound or mixture distributed through each facility.
 - c. The name and address of each customer of each PCB compound or mixture, and the amount of each PCB compound or mixture obtained by each customer from each facility.

The entire question is not applicable for all facilities.

2. For each PCB compound or mixture incorporated by your company into its products, for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:
 - a. A description of each product.
 1. Sharon - Transformers
 2. South Boston - Transformers
 3. Bloomington - Capacitors
 4. Cleveland - Capacitors
 5. Repair facilities - Transformers
 - b. For each product the total amount incorporated of each PCB compound or mixture. (pounds) (est.)

FACILITY	YEAR TYPE	1971	1972	1973	1974	(1st half) 1975
SHARON	AROCLOR 1242	1,142,500	631,600	830,000	856,000	387,000
	AROCLOR 1254	13,480	24,790	-0-	20,200	-0-
SOUTH BOSTON	AROCLOR 1242	4,459,455	3,692,535	4,509,190	4,892,580	2,449,859
	AROCLOR 1254	13,860	13,860	16,170	17,325	17,325
BLOOMINGTON	AROCLOR 1016	506,400	1,473,300	1,712,800	2,128,200	621,600
	AROCLOR 1242	705,700	-0-	91,800	-0-	-0-
	AROCLOR 1232	220	3,350	2,400	10,800	17,350
CLEVELAND	AROCLOR 1016	25,000	58,400	63,000	-0-	-0-

REPAIR FACILITIES

(SEE ATTACHED CHART)

- c. For each product the name and address of each source from which your company obtained each PCB compound or mixture, and the amount of each PCB compound or mixture obtained from each source.

For all products and all facilities the source is
Monsanto Chemical Co.
800 North Lindberg Blvd.
St. Louis, Missouri 63166

FACILITY	YEAR TYPE	1971	1972	1973	1974	(1st half) 1975
SHARON	AROCLOR 1242	1,200,000	631,600	930,000	951,000	387,000
	AROCLOR 1254	13,480	24,790	-0-	20,200	-0-
SOUTH BOSTON	AROCLOR 1242	4,505,655	3,738,735	4,555,320	4,983,780	2,496,957
	AROCLOR 1254	13,860	13,860	16,170	17,325	17,325
BLOOMINGTON	AROCLOR 1016	384,000	1,717,000	2,143,000	2,420,000	642,000
	AROCLOR 1242	649,000	-0-	95,700	-0-	-0-
	AROCLOR 1232	5,360	10,725	16,835	-0-	6,672
CLEVELAND*	AROCLOR 1016	(Total 146,400) Records Not Maintained			-0-	-0-

REPAIR FACILITIES

(SEE ATTACHED CHART)

*Ceased manufacture of capacitors May 1974.

- d. The name and address of each of your company's facilities which handle such products (including production facilities and wholesale and retail outlets), and the amount of each product distributed through each facility.

1. Westinghouse Electric Corporation
Power Systems
Transformer Division
469 Sharpsville Avenue
Sharon, Pa. 16146
2. Westinghouse Electric Corporation
Small Power Transformer Division
Box 920, Highway 58W
South Boston, Virginia 24592
3. Westinghouse Electric Corporation
Distribution Apparatus Division
Curry Pike
Bloomington, Ind. 47401
4. Westinghouse Electric Corporation
Outdoor Lighting Division
1216 West 58th Street
Cleveland, Ohio 44102

5. Repair Facilities - See Attached Chart

Totals shipped for each facility is the same as in 2(b).

- e. The name and address of each customer of each product, and the amount of each product obtained by each customer from each facility. For consumer products list only the total production of each product at each facility and the total number of customers. Do not provide the name and address of each customer of consumer products.

For each facility, the total amount shipped is the same as 2(b).

3. For each PCB compound or mixture used by your company in its operations other than for incorporation into its products, for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:

- a. A description of each use.

- b. For each use the total amount of each PCB compound or mixture.
- c. For each use the name and address of each source from which your company obtained each PCB compound or mixture, and the amount of each PCB compound or mixture obtained from each source.

For all facilities except Bloomington, this question is not applicable.

Bloomington - a) On each of the vacuum chambers used for impregnating power capacitors, there is one ring-jet booster pump. To preclude PCB Contaminated Oil, the pumps were charged with 6 gallons of Aroclor 1242 when they were installed prior to 1971. Aroclor 1016 has been added to or drained from these booster pumps since August 1971 depending upon the impregnating method. These pumps are located in the sealed drainage area and waste material is collected from the pumps and sent to an approved incinerator (see response to Question 5a).

b) Amount used for Year	Aroclor 1016
1971	-0-
1972	-0-
1973	-0-
1974	78.3 Gal.
1975	46.8 Gal.

c) Source same as in 2(c).

- 4. For each PCB compound or mixture reclaimed by your company, for each company facility, during each year of 1971, 1973, 1973, 1974, and the first two quarters of 1975:
 - a. The total amount of each PCB compound or mixture reclaimed.
 - b. The name and address of each source from which your company obtained PCB compounds or mixtures, and the amount of each PCB compound or mixture obtained from each source.

The entire question is not applicable for all facilities.

5. For each PCB compound or mixture disposed of by your company (with or without the involvement of other parties), for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:
- a. A description of each method of disposal.
 - b. For each method of disposal the total amount of each PCB compound or mixture.
 - c. For each method of disposal, the location of every disposal site, the name and address of each party involved in the disposal of each PCB compound or mixture, and the amount of each PCB compound or mixture disposed of by each party.

DEFINITIONS AND SYMBOLS USED FOR THIS SECTION

1. Incineration of liquid wastes by Monsanto, Sauget, Ill., 62201, using approved thermal oxidation, scrubbing and neutralization.
2. Incineration of liquid wastes by Chem-Trol Pollution Services, 1550 Balmer Road, Model City, New York 14107, "using thermal oxidation, scrubbing and neutralization in accordance with New York State and Federal Pollution Control Codes." (See Note to No. 3).
3. "Drummed solids and capacitors shall be disposed of [by Chem-Trol] in an approved scientific landfill in accordance with New York State and Federal Pollution Control Codes. All leachate shall be trapped, tested and treated as necessary prior to release."

NOTE: Contract with Chem-trol provides further that "No other method of disposal shall be used. There shall be no re-sale of any waste or the product of any waste received by Chem-Trol under the terms of this Contract."

4. Neal's Land Fill
Off Road #603
Owen County, Indiana
5. Special Designated Section of
Monroe County Landfill
Monroe County, Ind. 47401

6. Palos Verdes Land Fill
26301 S. Crenshaw Blvd.
Rolling Hills, California
(Special Area for Disposal
of PCB Contaminated Wastes)

8. H. Rock Land Fill
Harvard & East 78 St.
Cleveland, Ohio

7. Richmond Sanitary Dump
Richmond, California
(Special Area for Disposal of
PCB Contaminated Wastes)

9. Rockside Reclamation, Inc.
5661 Canal Road
Cleveland, Ohio

FACILITY	TYPE	YEAR				(1st half)
		1971	1972	1973	1974	1975
SHARON	(2) Liquid	5000 Gal.	-0-	8700 Gal.	8200 Gal.	-0-
	(3) Solid	8-55 Gal.	6-55 Gal.	1-55 Gal.	-0-	-0-
		Drum	Drum	Drum		
SOUTH BOSTON	(2) Liquid	4000 Gal.	4000 Gal.	4000 Gal.	4000 Gal.	4000 Gal.
	(3) Solid	-0-	-0-	80(55 Gal.)	-0-	63(55 Gal.)
				Drum		Drum
BLOOMINGTON	Liquid	202,965lbs(1)	76,621 lbs(1)	233,150lbs(1)	206,300lbs(1)	109,900 lbs(2)
	Solid	No record of amt.(4)	No record of amt.(4,5)/ 223,754lbs(3)	528,892lbs(3)	891,600lbs(3)	319,500 lbs(3)
CLEVELAND	Liquid	(2) Total 60,000 (Records not maintained)			-0-	-0-
	Solid	No Records (8,9)			-0-	-0-

REPAIR FACILITIES (SEE ATTACHED CHART)

6. The composition of each PCB compound or mixture produced, imported, sold, reclaimed, used, and/or disposed of by your company since January 1, 1971

The Table in Question 2c indicates the types of Aroclors purchased by Westinghouse. Analysis of these compounds may be obtained from:

Monsanto Chemical Co.
800 North Lindberg Blvd.
St. Louis, Missouri 63166

7. The results of any and all sampling and analysis performed by your company, its agents or contractors since January 1, 1971, concerning the following:
- Concentrations of PCB compounds or mixtures in the effluent of any discharges by the company (into waters of the United States or Publicly Owned Treatment Works) or in the emissions of the company into the air.
 - The flow and/or composition of any discharges or emissions by the company (into waters of the United States or Publicly Owned Treatment Works, or into the air) which contain PCB compounds or mixtures.
 - Concentrations of PCB compounds or mixtures in receiving waters (both upstream and downstream) of any discharges by the company which contain PCB compounds or mixtures and concentrations of PCB compounds or mixtures in the air in the area of the company.

PCB ANALYSES

<u>Sample Date</u>	<u>Sample Location 1974</u>	<u>Results (PPB)</u>
2/13		5.7 (1254)
2/21		4.1 (1260)
4/16	Westinghouse	6.1 (1260)
5/17	Sharon -	3.1 (1260)
6/18	R-Building	8.0 (1260)
7/17		2.4 (1260)
7/30		7.2 (1260)
8/13		12.2 (1260)
		9.7 (1242)
8/30		9.0 (1260)
		10.6 (1260)
10/15		3.3 (1260)
		4.8 (1242)
11/15		.7 (1260)
		.4 (1242)
2/13	Westinghouse	2.5 (1254)
2/21		1.7 (1260)
4/16		.4 (1260)
5/17	Sharon -	.3 (1260)
6/18	A-Building	.5 (1260)
7/17		.4 (1260)
8/13		1.04 (1260)
		1.1 (1242)
8/30		.7 (1260)
		.2 (1242)
10/15		.3 (1260)
		.1 (1242)
11/15		.2 (1260)
		.1 (1242)

Sample
Date

Sample
Date

Results

2/13
2/21
4/16
5/17
6/18
7/17
7/26
7/30
7/31
8/13

Westinghouse

Sharon -
Power House

40.0 (1252)
26.6 (1260)
2.2 (1260)
1.7 (1260)
5.0 (1260)
219.0 (1260)
1.7 (1260)
1.7 (1260)
1.3 (1260)
1.4 (1260)
.8 (1242)
9.0 (1260)
.1 (1242)
1.6 (1260)
5.3 (1242)
.6 (1260)
.6 (1242)

Date

South Boston

(PPB)

2/20
2/27
3/06
3/13
4/23
5/29
6/26
7/31
8/30
10/02
10/31
11/26
12/30

33
180
48
345
790
133
135
106
42
54.0
235
377
183

Date

Bloomington

(PPM)

2/26

2/27
3/01
3/06
6/05
8/12
10/08
11/10
12/12

22.2 (sewer
clogged)
1.7
.903
3.2
1.8
2.3
1.8
.26
.43

1975

	Westinghouse	(ppb)
1/8	Sharon -	19.1 (1260)
2/24	R - Building	2.81 (1260)
4/24		2.1 (1260)
5/30		(Sampler Inoperative)
7/11		"
1/8	Westinghouse	3.8 (1260)
2/24	Sharon -	0.25 (1260)
4/24	A-Building	5.5 (1260)
5/30		0.33 (1260)
7/11		0.72 (1260)
1/8	Westinghouse	1.6 (1260)
2/24	Sharon -	10.97 (1260)
4/24	Power House	1.9 (1260)
5/30		0.98 (1260)
7/11		1.75 (1260)
6/05	South Boston	28.6
	Bloomington	(PPM)
1/09		4.6
1/09		3.17
2/3		.526
3/1		.964
4/30		.268
5/30		1.93

In addition, a sampling program was undertaken in February 1971 at Bloomington which indicated 3-40 ppb in the discharge with a rate of flow of 240-280 gallons/minute.

The daily rate of flow from Sharon is: Power House, 252,000 gallons; A-Building, 378,720 gallons; and R-Building, 504,000 gallons.

The South Boston facility discharges in a batch process with a daily rate of 13,500 gallons.

The flow from Bloomington to the sanitary sewer for the dates sampled are as follows:

<u>Date</u>	<u>Gal/Day</u>
2/26/74	Sewer clogged-Sewage backedup
2/27/74	225,615
3/01/74	232,468
3/06/74	232,468
6/05/74	178,000
8/12/74	252,582
10/08/74	186,544
11/10/74	183,874
12/12/74	160,734
1/09/75	189,481
1/09/75	189,481
2/3/74	162,069
3/1/75	134,924
4/30/75	118,637
5/30/75	106,177

Receiving waters have been sampled at the following locations with the indicated results:

Sharon	Shenango River at Bank above Clark Street Bridge	6/6/74	0.1 ppb
	Shenango River at Bank by Clark Street Substation (below dis- charge)	6/6/74	0.1 ppb
Bloomington	Clear Creek (above Sewage Treatment Plant)	1/9/74	0.25 ppb
	Clear Creek (below Sewage Treatment Plant)	1/9/75	5 ppb

8. The methods by which PCB compounds or mixtures are transported to, by, and/or from your company, including:

- a. A description of each method of transportation, and the form in which PCB compounds or mixtures are transported by each method. Where different methods of transportation are used at different facilities specify which transportation method is used at each facility.

SOUTH BOSTON

AROCOLOR 1242 Received via bulk tank cars from Monsanto.

Liquid and solid wastes are shipped from South Boston by privately-owned tank trucks and vans of Chem-Trol, Inc.

Shipment of transformers containing PCB's are by common carrier.

BLOOMINGTON

AROCOLORS 1016 and 1242 received via bulk tank cars from Monsanto.

AROCOLOR 1232 received via 55 gallon drums from common carriers.

Liquid and solid wastes are shipped from Bloomington by privately-owned tank trucks and vans of Chem-Trol, Inc.

Shipment of capacitors containing PCB's are by common carrier.

REPAIR FACILITIES (see attached chart)

- b. The names and addresses of all known transportors of PCB compounds or mixtures.

L & N Railroad
908 Broadway
Louisville, Kentucky

Transport Motor Express
3190 East 79 Street
Cleveland, Ohio 44104

Monsanto Chemical Co.
800 N. Lindberg Blvd.
St. Louis, Mo. 63166
(Plant: Sauget, Ill.)

Anderson
1511 Lakeside Ave.
Cleveland, Ohio 44114

Moss Trucking Co.
Charlotte,
North Carolina

Chem-Trol, Inc.
Model City,
New York 14107

C & H Transport
Dallas,
Texas

A & H Truck Line Incorporated
1111 East Louisiana
Evansville, IN 47717

9. All occasions (including spills) of which you are aware on which PCB compounds or mixtures have or may have been introduced into the environment. In particular, describe such occasions insofar as they involved PCB compounds or mixtures in their liquid state, as incorporated into closed systems, or as incorporated into open systems. For each occasion, indicate name and address of party involved; dates, time, and location of the discharge or spill; and the amounts involved.
1. March 1972 - Rail tank car (No. ACFX4016) was dripping PCB upon receipt. The amount is unknown.
 2. Carrier claim reports have indicated some leaking capacitors, however, only in one case is there information that PCB's were introduced into the environment. On 5/20/74 at 2:00 A.M., an A&H Truck Lines Trailer truck loaded with 4 capacitor racks and other equipment, overturned on U.S. Route 50 about 17 miles southwest of Bedford, Indiana. In this accident, capacitors broke resulting in some loss of PCB. Leaking units were placed in sealed drums and sent to Chemtrol. Soaked dirt was shoveled up (by Westinghouse personnel) and put in sealed drums and sent to Chemtrol.
 3. On 3/28/72 a Moss Trucking Co. truck veered off Route 158 approximately ten miles west of Roanoke Rapids, North Carolina. Five transformers were dumped from the truck trailer and approximately 1,000 gallons of Inerteen was spilled. The safety inspector for Moss Trucking Co. indicated that there were no creeks or water areas around the area and that there was no danger of polluting streams.
10. A description of any adverse health or environmental effects which you know or believe to have resulted from the introduction of PCB compounds or mixtures into the environment. Indicate any specific occasions including dates, times, location, amounts, and parties involved for which such effects are known.

We do not have any direct knowledge of any adverse health or environmental effects resulting from these compounds being introduced into the environment.

SHARON

To Westinghouse Electric Corporation (purchased material).
ARDCLOR 1242 Via bulk tank cars (rail).
ARDCLOR 1254 Via truck in 55 gallon drums.

From Westinghouse Electric Corporation (scrap Inerteen).
Scrap Inerteen Via tank truck. (See question 5).
Scrap Inerteen Via truck in 55 gallon drums. (See question 5)

From Westinghouse Electric Corporation (material shipped IN
Transformers).
Shipped Via common motor carrier or rail transport.

From Westinghouse Electric Corporation new material PDS
54201KA in 55 gallon drums for field filling of trans-
formers.
Shipped Via common motor carrier.

Each shipment of new material from Westinghouse Electric
Corporation has the following instructions and information
given to the carrier.

INERTEEN

Method of
Shipment: Ship via all modes.

Packaging: Pack in leakproof container (see note).

Marking: No marking required (except on water shipment
container must be marked): "Liquid Plastics -
No Label Required".

Labeling: No label required.

Billing: Bill as "Liquid Plastic NOI" and add the
following statement:
"This product contains polychlorinated biphenyls
(PCB's) which some studies have shown may be
a persistent environmental contaminant. Prevent
any entry into the environment through spills.
During shipment avoid spills and leakage into
inland waterways and the sea. Keep away from
food, animal feedstuffs, and pharmaceuticals.
In case of emergency concerning this shipment,
call collect 618-271-5835, or Chemtrec
800-424-9300.

Note: Any leakage will result in shipment being refused
or stopped in transit. Leakage may cause liability
for environmental damage.

9. All occasions (including spills) of which you are aware on which PCB compounds or mixtures have or may have been introduced into the environment. In particular, describe such occasions insofar as they involved PCB compounds or mixtures in their liquid state, as incorporated into closed systems, or as incorporated into open systems. For each occasion, indicate name and address of party involved; dates, time, and location of the discharge or spill; and the amounts involved.
1. March 1972 - Rail tank car (No. ACFX4016) was dripping PCB upon receipt. The amount is unknown.
 2. Carrier claim reports have indicated some leaking capacitors, however, only in one case is there information that PCB's were introduced into the environment. On 5/20/74 at 2:00 A.M., an A&H Truck Lines Trailer truck loaded with 4 capacitor racks and other equipment, overturned on U.S. Route 50 about 17 miles southwest of Bedford, Indiana. In this accident, capacitors broke resulting in some loss of PCB. Leaking units were placed in sealed drums and sent to Chemtrol. Soaked dirt was shoveled up (by Westinghouse personnel) and put in sealed drums and sent to Chemtrol.
 3. On 3/28/72 a Moss Trucking Co. truck veered off Route 158 approximately ten miles west of Roanoke Rapids, North Carolina. Five transformers were dumped from the truck trailer and approximately 1,000 gallons of Inerteen was spilled. The safety inspector for Moss Trucking Co. indicated that there were no creeks or water areas around the area and that there was no danger of polluting streams.
10. A description of any adverse health or environmental effects which you know or believe to have resulted from the introduction of PCB compounds or mixtures into the environment. Indicate any specific occasions including dates, times, location, amounts, and parties involved for which such effects are known.

We do not have any direct knowledge of any adverse health or environmental effects resulting from these compounds being introduced into the environment.

11. Any and all other information which you possess concerning:

- a. The production, importation, reclamation, use, distribution, and disposal of PCB compounds or mixtures.
- b. The discharge of PCB compounds or mixtures into the environment.

Westinghouse Electric Corporation provided direct testimony on these matters during the EPA Toxic Pollutant Hearings in 1974. In addition, we are aware that scientists for Monsanto Chemical Co. have published recent articles on the degradation of these compounds and that the Electronic Industries Association has furnished Mr. Russell Train additional information on these matters.

NOTE (CHART)

The attached chart lists those Westinghouse Industry Services Divisions facilities which handle Polychlorinated Biphenyl Compounds.

Records are maintained for each project; however, these are not further coded to designate which project involved Polychlorinated Biphenyls. However, based upon the information available, disposal is to approved facilities when required.

NPC00026488

753825

1. For each PCB compound or mixture produced or imported by your company, for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:

Reply:

Not applicable at Dist. App. Div.

2. For each PCB compound or mixture incorporated by your company into its products, for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:

- ✓ a. A description of each product.
- ✓ b. For each product the total amount incorporated of each PCB compound or mixture.

2

2. (continued)

- ✓ ~~c.~~ c. For each product the name and address of each source from which your company obtained each PCB compound or mixture, and the amount of each PCB compound or mixture obtained from each source.
- ✓ d. The name and address of each of your company's facilities which handle such products (including production facilities and wholesale and retail outlets), and the amount of each product distributed through each facility.
- ✓ e. The name and address of each customer of each product, and the amount of each product obtained by each customer from each facility. For consumer products list only the total production of each product at each facility and the total number of customers. Do not provide the name and address of each customer of consumer products.

2. PCB Compounds in Products

a. Description of Products

- (1) High voltage capacitor units used in pole mounted equipment, substations, and series banks on transmission lines-- electric utilities.
- (2) Low voltage industrial type capacitors for industrial plant application.
- (3) Outdoor low voltage used on oil field and irrigation pump motors.
- (4) Surge capacitors for the protection of rotating AC machines.
- (5) Capacitor banks for induction furnace application.
- (6) High frequency water cooled capacitors for induction heating apparatus.
- (7) Energy storage capacitors for high voltage impulse generators.
- (8) High fidelity, extra high capacitance coupling capacitor potential devices used by the electric utilities on their transmission lines.

b. Total Amount Incorporated in Products (approximate) shipped to Customers

	#1242	#1016	#1232
1971	705,700 lbs.	506,400 lbs.	220 lbs.
1972	--	1,473,300 lbs.	3,350 lbs.
1973	91,800 lbs.	1,712,800 lbs.	2,400 lbs.
1974	--	2,128,200 lbs.	10,600 lbs.
1975 (6 months)	--	621,600 lbs.	17,350 lbs.
	797,500 lbs.	6,442,300 lbs.	34,120 lbs.

c. Source

Monsanto
800 North Lindberg Blvd.
St. Louis, MO

	#1242	#1016	#1232*
1971	649,000 lbs.	384,000 lbs.	5,360 lbs.
1972	--	1,717,000 lbs.	10,725 lbs.
1973	95,700 lbs.	2,143,000 lbs.	16,835 lbs.
1974	--	2,420,000 lbs.	--
1975 (6 months)	--	652,000 lbs.	6,672 lbs.
	744,700 lbs.	7,316,000 lbs.	39,592 lbs.

*Monsanto shipped (W) spec #54201KJ which is a mixture of 65% #1232 and 35% trichlorobenzene. The weights in this column are the actual weight of #1232.

2. d. Capacitor Manufacturing Facility:

Westinghouse Electric Corporation
Distribution Apparatus Division
Curry Pike
Bloomington, IN 47401

e. (?)

3. For each PCB compound or mixture used by your company in its operations other than for incorporation into its products, for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:

- a. A description of each use.
 - b. For each use the total amount of each PCB compound or mixture.
 - c. For each use the name and address of each source from which your company obtained each PCB compound or mixture, and the amount of each PCB compound or mixture obtained from each source.
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3. a. On each of the vacuum chambers used for impregnating power capacitors, there is one Ring-Jet booster pump. The initial change of pump fluid was 6 gallons (approximately 70 pounds) of #1242 when the pumps were installed prior to 1971. Since August of 1971, #1016 has been added to or drained from these booster pumps depending upon the impregnating method. Waste material was collected from the pumps and sent to an approved incinerator.

- b. Amount used

	<u>#1016</u>
1971	--
1972	--
1973	--
1974	900 lbs.
1975 (6 months)	540 lbs.

- c. Source

Same as 2.c.

4. For each PCB compound or mixture reclaimed, for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:

- a. The total amount of each PCB compound or mixture reclaimed.
- b. The name and address of each source from which your company obtained PCB compounds or mixtures, and the amount of each PCB compound or mixture obtained from each source.

*Reply: Not applicable at Blount - do not
reclaim*

5. For each PCB compound or mixture disposed of by your company (with or without the involvement of other parties), for each company facility, during each year of 1971, 1972, 1973, 1974, and the first two quarters of 1975:
 - a. A description of each method of disposal.
 - b. For each method of disposal the total amount of each PCB compound or mixture.
 - c. For each method of disposal, the location of every disposal site, the name and address of each party involved in the disposal of each PCB compound or mixture, and the amount of each PCB compound or mixture disposed of by each party.
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5. Definitions:

Solid waste - soaked material containing PCB

Liquid waste - contaminated liquid PCB collected in drums

a. Method of disposal:

From 1971 through 6 months, 1975, all liquid waste has been shipped to Monsanto or Chemtrol for incineration in approved incinerators.

From 1971 through July, 1972, solid waste was shipped to approved county landfills.

From August, 1972, through 6 months, 1975, solid waste was disposed of according to the following method:

Method of disposal

Drummed or bulk liquid shall be disposed of through chemical treatment using thermal oxidation, scrubbing and neutralization in accordance with New York State and Federal Pollution Control Codes.

Drummed solids and capacitors shall be disposed of in an approved scientific landfill in accordance with New York State and Federal Pollution Control Codes. All leachate shall be trapped, tested and treated as necessary prior to release.

No other method of disposal shall be used. There shall be no re-sale of any waste or the product of any waste received by CHEM-TROL under the terms of this contract.

5. b. & c. Liquid Waste

<u>Year</u>	<u>Approximate Weight Including Containers</u>
(1) 1971	202,965 lbs.
(1) 1972	76,621 lbs.
(2) 1973	233,150 lbs.
(2) 1974	206,900 lbs.
(3) 1975 (6 months)	109,900 lbs.

(1) Shipped To: Monsanto (W. G. Kummrich Plant)
Sauget, IL 62201

Carrier: A&H Truck Line, Inc.
1711 East Louisiana Street
Evansville, IN 47717

(2) Shipped To: Monsanto

Carrier: Westinghouse Corporate Trucking
Leger Road RD#5
Irwin, PA 15642

(3) Shipped To: Chemtrol Pollution Services
1550 Balmer Road
Model City, NY 14107

Carrier: Westinghouse Corporate Trucking

5. b. & c. Solid Waste

<u>Period</u>	<u>Weight Of Solids Containing PCB</u>
(1) 1971-6/2/72	(5) 485,000 lbs. (NO RECORD OF
(2) 6/2/72-7/26/72	(5) 52,000 lbs.
(3) 7/26/72-12/31/72	223,754 lbs.
(3) 1973	528,892 lbs.
(3) 1974	891,600 lbs.
(4) 1975 (6 months)	319,500 lbs.

(1) Shipped To: Neal's Landfill
Off Road #603
Owen County, Indiana

Carrier: R. Neal Trucking
Monroe County, IN 47401

(2) Shipped To: Special Designated Section Of
Monroe County Landfill
Monroe County, IN 47401

Carrier: Disposal Service Inc.
101 South Roosevelt
Bloomington, IN 47401

(3) Shipped To: Chemtrol Pollution Services
1550 Balmer Road
Model City, NY 14107

Carrier: Chemtrol Pollution Services

(4) Shipped To: Chemtrol Pollution Services

Carrier: Westinghouse Corporate Trucking

(5) We are unable to locate any records that would tell the weight of solids containing PCB that were disposed during the period 1971 through June 2, 1972. However, we did calculate an estimated weight by comparing the production rate, reject rate, and solid weights for 1973 and 1974 with the production rate and reject rate for 1971 and 1972. We assumed the 1973, 1974 ratios would reasonably represent the 1971, 1972 situation on solid waste disposal.

6. The composition of each PCB compound or mixture produced, imported, sold, reclaimed, used, and/or disposed of by your company since January 1, 1971.

1/71--7/71 . - Monsanto #1242
8/71--6/75 - Monsanto #1016 + 1 tank car of #1242 in 1974.
1/71--6/75 - Monsanto #1232

65%

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7. The results of any and all sampling and analysis performed by your company, its agents or contractors since Janu. 1, 1971, concerning the following:

- ✓ a. Concentrations of PCB compounds or mixtures in the effluent of any discharges by the company (into waters of the United States or Publicly Owned Treatment Works) or in the emissions of the company into the air.
- ✓ b. The flow and/or composition of any discharges or emissions by the company (into waters of the United States or Publicly Owned Treatment Works, or into the air) which contain PCB compounds or mixtures.
- ✓ c. Concentrations of PCB compounds or mixtures in receiving waters (both upstream and downstream) of any discharges by the company which contain PCB compounds or mixtures and concentrations of PCB compounds or mixtures in the air in the area of the company.

7. a., b., & c. Results of samplings and analysis of discharges and/or water.

Exhibits:

1. Sewer samples taken from U.A.D.
2. Monsanto samples taken 1/8/75 and 1/9/75
3. (W) Aquatechnics sampling program, February, 1971

EXHIBIT #1 - SEWER DISCHARGES TO SEWAGE TREATMENT PLANT, BLOOMINGTON, FROM D.A.D.

* Recently installed sewer flow meter indicates approximately 89% of incoming water flows into the sewer

To establish daily discharge in pounds of PCB into sewer:

Multiply [sewage flow rate [at 89% of water rate]] x (Sewer sample PPI) x (8.4×10^{-4})

Example: 5/75

$$(106,177) \times (1,930) \times (8.4 \times 10^{-6}) = 1.72 \text{ lbs/day}$$

Exhibit #2

Monsanto Samples taken 1/8/75 & 1/9/75

	PCB's
I. Composite sample taken 1/8 & 1/9/75 (Sampled main plant effluent in sampling well outside plant building. Sampled from 2:50 PM till 11:30 AM.)	4,600 ppb
II. Plant water taken 1/9/75 (Grab sample taken from fountain.)	<0.25 ppb
III. Clear Creek sample taken 1/9/75 (Grab sample taken upstream of Sewage Treatment plant at Winslow Road extended.)	<0.25 ppb
IV. Clear Creek sample taken 1/9/75 (Grab sample taken downstream of Sewage Treatment Plant at Rhorer Road extended.)	5 ppb

EXHIBIT #3

(W) AQUATECHNICS SAMPLING PROGRAM, FEBRUARY, 1971:

PCB, Micrograms/Liter - 3- 40

Flow Rate, Gallons/Minute - 240-280

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8. The methods by which PCB compounds or mixtures are transported to, by, and/or from your company, including:

- a. A description of each method of transportation, and the form in which PCB compounds or mixtures are transported by each method. Where different methods of transportation are used at different facilities specify which transportation method is used at each facility.
 - b. The names and addresses of all known transportors of PCB compounds or mixtures.
-

8. Transportation Method:

a. To Distribution Apparatus Division, Bloomington, Indiana

(1) #1016 and #1242

Railroad Tank Car
L&N Railroad
908 Broadway
Louisville, Kentucky

(2) #1232

55 gallon drums mixed with TCB
A&H Truck Line Incorporated
1111 East Louisiana
Evansville, IN 47717

b. From Distribution Apparatus Division, Bloomington, Indiana

(1) Products - Common Carriers

(2) Waste - Refer to question #5

9. All occasions (including spills) of which you are aware on which PCB compounds or mixtures have or may have been introduced into the environment. In particular, describe such occasions insofar as they involved PCB compounds or mixtures in their liquid state, as incorporated into closed systems, or as incorporated into open systems. For each occasion, indicate name and address of party involved; dates, time, and location of the discharge or spill; and the amounts involved.
-

9. Spills or Losses

- a. In March, 1972, rail tank car #ACFX4016 was dripping PCB upon receipt. Amount of leakage is unknown.
- b. "Carrier Claim" reports indicating leaking capacitors during transportation--list attached--exhibit #1.
- c. Customer capacitor failure reports indicating potential loss of PCB--list attached--exhibit #2.

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EXHIBIT #1
"Carrier Cl 1" reports indicating potential leaking
Capacitors during transportation

Original Date of Shipment	Item	Trucker	Max. Estimate Liquid Released
6/11/71	792C114A13 Cap.	Old Colony Trans.	12 lbs
8/23/71	4A3399G02 Caps (2)	REA	24 lbs
2/15/72	174C652A18 Caps (2)	A&H Truck Line	104 lbs
3/8/72	315D347A35 Cap.	"	12 lbs
8/18/72	175C303A64 Cap.	"	26 lbs
9/21/72	173C802A18 Cap.	Griffith	12 26 lbs
10/16/72	175C303A44 Cap.	A&H Truck Line	26 26 lbs
5/29/73	175C102A56 Cap.	W CT	14 12 lbs
8/20/73	175C303A43 Cap.	McLean Trucking	26 12 lbs
9/19/73	4A3399G03 Cap.	Griffith	12 26 lbs
12/12/73	4A3399G03 Caps (2)	Transport Motor Exp.	26 26 lbs
12/29/73	C0323091AA (2)	A&H Truck Line	134 26 lbs
3/26/74	237C303A16 Cap.	A&H & Time D.C.	26 52 lbs
4/1/74	175C002A55 Cap.	Griffith	12 lbs
4/4/74	237C303A16 Caps 2	A&H & Time D.C.	52 12 lbs
8/7/74	174C985A11 Cap.	Griffith	12 104 lbs

On 5/20/74 at 2:00 A.M., an A&H Truck Lines Trailer truck loaded with 4 capacitor racks and other equipment, overturned on U.S. Route 50 about 17 miles southwest of Bedford, Indiana. In this accident, capacitors broke resulting in some loss of PCB. Leaking units were placed in sealed drums and sent to Chemtrol. Soaked dirt was shoveled up and put in sealed drums and sent to Chemtrol.

12 pps mail

EXHIBIT #2

1973, 1974-75 Customer Capacitor Failure Reports
Indicating Potential Loss of PCB

<u>Location</u>	<u>Style</u>	<u>Max. Estimated Liquid Released</u>
Wesco-Sacramento	237C100A10	12 lbs
Wesco-Sacramento	237C100A10	12 lbs
Central Hudson-N.Y.	237C100A10	12 lbs
Wesco Wilmington	237C100A10	12 lbs
Wesco Evansville	237C100A10	12 lbs
So. California	237C100A18	12 lbs
Bovaird Wilco Chem.	175C002A02	12 lbs
Ashland Oil	237C100A02	12 lbs
Wesco Pittsburgh	237C100A02	12 lbs
Oklahoma Electric Coop	237C150A09	13 lbs
Elec. Supply	237C150A02	13 lbs
Ohio Edison Co.	237C150A10	13 lbs
Ohio Edison Co.	237C150A10	13 lbs
Ohio Edison Co.	237C150A10	13 lbs
Ohio Edison Co.	237C150A10	13 lbs
Ohio Edison Co.	237C150A10	13 lbs
Appalachian Power	237C150A10	13 lbs
Crouder Jr.	237C150A06	13 lbs
Potomic Edison	237C150A10	13 lbs
Potomic Edison	237C150A10	13 lbs
Potomic Edison	237C150A10	13 lbs
Ohio Edison	237C150A10	13 lbs
PG&E	237C200A10	14 lbs
San Diego Gas & Elec.	237C200A10	14 lbs
Conn. Light & Power	237C200A27	14 lbs
Blackstone Valley Electric	175C102A26	14 lbs
Blackstone Valley Electric	175C102A26	14 lbs
Blackstone Valley Electric	175C102A26	14 lbs
Blackstone Valley Electric	175C102A26	14 lbs
Blackstone Valley Electric	175C102A26	14 lbs
Blackstone Valley Electric	175C102A26	14 lbs
Blackstone Valley Electric	175C102A26	14 lbs
San Diego Gas & Electric	175C102A18	14 lbs
Mass. Electric Co.	237C200A14	14 lbs
Alabama Power	175C102A46	14 lbs
Alabama Power	175C102A46	14 lbs
PG&E	237C200A10	14 lbs
PG&E	237C200A10	14 lbs
AMFAC	237C403A08	26 lbs
Dashlell	175C403A43	26 lbs
Southern California Ed.	237C403A07	26 lbs
Turlock Irr. Dist.	237C493A08	26 lbs
Southern California	237C403A08	26 lbs
Iowa Ill. Gas & Elec.	237C300A12	26 lbs
Hercules	237C300A12	26 lbs
App. Pwr. Co.	237C300A07	26 lbs
Southern California	237C303A08	26 lbs
Southern California	237C303A08	26 lbs
Southern California	175C303A44	26 lbs
Southern California	237C303A08	26 lbs

*Total Not
Power off*

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<u>Location</u>	<u>Style</u>	<u>Max. Estimated Liquid Released</u>
Public Service Elec. & Gas	237C303A08	26 lbs
Wesco Anaheim	175C303A43	26 lbs
PG&E	175C303A08	26 lbs
PG&E	237C303A08	26 lbs
↑ Hercules	237C303A12	26 lbs
1773 ↓ Iowa-III. Gas & Elec.	174C652A26	13 lbs
(Butler) Union Elec.	175C102A39	14 lbs
Texas Power & Light	175C303A25	26 lbs
McCaffrey Co	175C 002 A02	14 lbs
"	"	14 lbs
Blackstone Valley	175C 102 A26	14 lbs
"	"	" "
"	"	" "
"	"	" "

10. A description of y. adverse health or environmen' effects
which you know or believe to have resulted from the introduction
of PCB compounds or mixtures into the environment. Indicate
any specific occasions including dates, times, locations, amounts,
and parties involved for which such effects are known.
-

We at D.A.D. have no first hand knowledge of adverse health or
environmental effects.

11. Any and all other information which you possess concerning:

a. The production, importation, reclamation, ⁽¹¹⁾use, distribution, and disposal of PCB compounds or mixtures.

b. The discharge of PCB compounds or mixtures into the environment.

Copy of EIA summary - attached

In addition to the above, EPA would appreciate receiving any other information which you possess concerning the distribution and discharge of PCB compounds or mixtures by sources other than your company, including your company's customers and sources.

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SUMMARY QUESTIONNAIRE FOR USERS OF CAPACITOR GRADE ABOLISH

P L A N E	a) Municipal			b) Well		c) Other		d) Total		e) To Municipal Sewer System		f) To Navigable Stream				
	Daily Vol. of Flow in Ltr.	PCB Conc. in mg./l.	Do you treat this water?	Comment if yes	Daily Vol. of Flow in Ltr.	PCB Conc. in mg./l.	Do you treat this water?	Comment if yes	Daily Vol. of Flow in Ltr.	PCB Conc. in mg./l.	Do you treat this water?	Comment if yes	Daily Vol. of Flow in Ltr.	PCB Conc. in mg./l.	Do you treat this water?	Comment if yes
A	407,000	7.00	NO	--	NONE	--	NO	--	407,000	NONE	--	NONE	--	NONE	--	NONE
B	45,000	0.40	NO	--	--	--	--	--	45,000	0.0005	14.3	--	--	--	--	--
C	38,750	1.00	NO	--	--	--	--	--	38,750	0.0050	130.0	--	--	--	--	--
D	5,630,000	--	NO	--	--	--	--	--	5,630,000	--	--	--	--	--	--	--
E	2,102,567	2.50	NO	--	--	--	--	--	2,102,567	0.0011	189,250	6.0	--	--	--	--
F	29,980	0.30	NO	--	--	--	--	--	29,980	0.0555	26,710	2,077.7	--	--	--	--
G	34,892	--	NO	--	--	--	--	--	34,892	--	--	--	--	--	--	--
H	521,238	--	NO	--	1,630,000	20	NO	--	2,151,238	0	0	0	--	--	--	--
I	957,846	--	NO	--	--	--	--	--	3,450,000	6,407,846	0	0	--	--	--	--
J	98,000	1.00	NO	--	--	--	--	--	98,000	0.0009	98,000	8.7	--	--	--	--
K	10,000	NOTE 3	NO	--	--	--	--	--	10,000	0.0080	820	--	--	--	--	--
L	1,173,350	0.50	NO	--	--	--	--	--	1,173,350	0.4230	851,625	497.0	--	--	--	--
M	228,000	Not det.	NO	--	1,750,230	1	YES	--	1,988,230	DMA	DMA	DMA	0.0780	1,903,120	4.1	--
N	664,445	0.30	NO	--	--	--	--	--	664,445	0.0177	664,445	26.6	--	--	--	--
O	5,000	0.25	NO	--	--	--	--	--	5,000	0.0002	--	--	--	--	--	--
P	810,000	< 0.25	NO	--	--	--	--	--	810,000	1.0900	650,000	1,680.0	--	--	--	--
TOTALS	12,756,068	--	NO - 16	--	13,390,230	--	YES - 12	--	21,596,298	1.6020	2,564,600	--	10.237911	4,666,120	--	--
AVG.	--	0.84	--	--	--	10.5	--	--	--	--	--	493.4	--	--	--	492.3

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SUMMARY QUESTIONNAIRE FOR USES OF CAPACITOR GRADE ARCOLER

	1	2 (cont'd)	3	4	5	6	7	8	9	10
	Tot. B.Wt. of PCB dis. in kg.	Avg. Daily Avg. Conc. D/Wt. in mg. per l.	Municipal Treat for Cont. w/ operate treatment plant class chem. at plant	What is PC? Treat for Cont. w/ stream in al. gm/l.	Tot. B.Wt. of PCB dis. in kg.	Tot. Avg. D. Plant's D. "efficiency" of PCB usage in l. in mfg. 12 mo. in over same of cap. 12 mo. using PCB				
A	6,300	2,700	5 days Secondary	YES	NOTE 1	81,000,000	5 yrs.			
B			7 days Secondary	NO	0.0006	16,000,000	5 yrs.			
C			5 days Secondary	NO	0.0050	14,144,000	5 yrs.			
D					1.42	1,970,000,000	18 yrs.			
E	0.0136	1,703,250	5 days Primary	NO	0.0347	765,504,895	18 yrs.			
F	0.0000	3,270	5 days Primary	NO	0.0555	13,320,260	30 yrs.			
G			Tertiary	YES		1,814,600	7 yrs.			
H			None	NO	2,000.00	2,060,000,000	29 yrs.			
I			Primary	NO	9.9160	3,577,000	23 yrs.			
J			5 days Secondary	NO	0.0009	2,265,000	5 yrs.			
K			4 days	NO	0.0080	4,200,000,000	35 yrs.			
L	0.0000	246,025	7 days Primary	NO	0.4430	497,000,000	20 yrs.			
M	DNA	DNA	5 days	NO	5.50	219,200,000	2 yrs.			
N			Secondary	NO	0.0065	3,500,000	18 yrs.			
O	NONE		5 days	NO		322,000,000	17 yrs.			
P			7 days Secondary	NO	0.036	6,409,328,555	16.6 yrs.			
TOTAL	6.3536	1,955,245	Primary-4 Secondary-6 Tertiary-1 None-1 NA-4	YES-2 NO-9 NA-4	11.8933	36,193				
AVG.			5.67 days	1.04		10,791,458				
						0.000329				

NOTES: 1: 2al needs resample, 2al @ 2al mone
2: To be determined
3: Below detection

DEF: Sinking Filtered
BF: Well & Reservoir
F: Downstream

DEF: Storm Sewer
BF: Estuary
F: Average Flow