

2. d. Capacitor Manufacturing Facility:

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

e. (?)

NPC00026213

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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.

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 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 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 Birmingham - do not
reclaim*

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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.

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>
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(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.
1111 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

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5. b. & c. Solid Waste

<u>Period</u>	<u>Weight Of Solids Containing PCB</u>
(1) 1971-6/2/72	(5) 485,000 lbs.
(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.

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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
1/71--6/75	-	Monsanto #1232	

- 65% ARACLOL

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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:

- ✓ 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.

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

Exhibits:

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

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WORK SHEET
WESTINGHOUSE FORM 8295 E

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

DATE	WATER METER 10 ⁶ GAL/MONTH	@ 100% WATER INTO SEWER GAL/DAY	@ 89% WATER INTO SEWER GAL/DAY*	SEWER SAMPLE PPM CONCENTRATION					
2/26/74	7.1	253,500	225,615	22.2	(Sewer clogged--sewage backed up)				
2/27/74	7.1	253,500	225,615	1.7					
3/01/74	8.1	261,200	232,468	0.903					
3/06/74	8.1	261,200	232,468	3.2					
6/05/74	6.0	200,000	178,000	1.8					
8/12/74	8.8	283,800	252,582	2.3					
10/08/74	6.5	209,600	186,544	0.992	(1.2)				
11/10/74	6.2	206,600	183,874	0.702	(.26)				
12/12/74	5.6	180,600	160,734	0.430					
1/09/75	6.6	212,900	189,481	4.600					
1/09/75	6.6	212,900	189,481	3.17					
2/3/75	5.1	182,100	162,069	0.526					
3/1/75	4.7	151,600	134,924	0.964					
4/30/75	4.0	133,300	118,637	0.268					
5/20/75	3.7	119,300	106,177	1.930					
* 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 PPM) x (8.4 x 10 ⁻⁶)									
Example: 5/75									
(106,177) x (1.930) x (8.4 x 10 ⁻⁶) = 1.72 lbs/day									

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Exhibit #2

Monsoon 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

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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

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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.

[REDACTED]

[REDACTED]

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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, 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.

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

- a. The production, importation, reclamation, ⁽⁷⁾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 AROCLOR

PLANT	a) Municipal				b) Well				c) Other	d) Total	a) To Municipal Sewer System				b) To Navigable Stream			
	Daily Vol. of Flow Ltr.	PCB Con- centration mg./l.	Do you treat this water?	Comment if yes	Daily Vol. of Flow in Liters	PCB Con- in mg./l.	Do you treat this water?	Comment if yes			Identify	Daily Vol. of input water A-1 B-1	Total Dail. Wt. of PCB disch. kg	Avg. Daily Flow in Liters	Avg. Con- centrations mg./l.	Total Daily Wt. PCB disch. kg	Avg. Daily Flow in Liters	Avg. Con- centrations mg./l.
A	407,000	7.00	NO		NOTE		NO			407,000	Need Resample			NOTE				
B	45,000	0.40	NO							45,000	0.0006	45,000	14.3					
C	38,750	1.00	NO							38,750	0.0050	38,750	130.0					
D	5,630,000		NO							5,630,000				2439	5,431,000			
E	2,102,567	2.50	NO							2,102,567	0.0011	189,250	6.0					
F	29,900	0.30	NO							29,900	0.0535	26,710	2,077.7					
G	34,892		NO							34,892								
H	521,238		NO		1,630,000	NO	NO			2,151,238	0		0	9.9160	1,130,000	1.39		
I	957,846		NO							5,450,000 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	DNA	1,760,230	1	YES	###	DNA	1,988,230	DNA	DNA	DNA	0.0760	1,905,120			
N	664,445	0.30	NO							664,445	0.0177	664,445	26.6					
O	5,000	0.25	NO							5,000	0.0002			NOTE				
P	810,000	0.25	NO							810,000	1.0900	650,000	1,680.0					
TOTALS	12,756,060				13,390,230		YES - 1 NO - 2	Sand Bed Filtered		21,596,290	1.6020	1,564,600		10.2379	14,466,120			
Avg.		0.64	NO - 15			10.5							493.4					

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SUMMARY QUESTIONNAIRE FOR USES OF CAPACITY GRADE AREOLAR

PLANT	2 (cont'd)		3	4		5	6	7		8	9	10
	1	2		3	4			5	6			
	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter	Flow in m ³ /hr.	What is PCB? Municipal Treat for Cont. op. of PCB dis. in stream in kg. per 1. liter	What is PCB? Municipal Treat for Cont. op. of PCB dis. in stream in kg. per 1. liter	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter	Tot. D.W. Avg. Daily Avg. Cons. of PCB dis. in kg. per 1. liter
A	6,300	2,700	5 days Secondary	YES	1.00	NOTE 1	83,000,000	5 yrs.				
B			7 days Secondary	NO		0.0006	16,000,000	5 yrs.				
C			7 days Secondary	NO		0.0050	14,154,000	5 yrs.				
D						1.42	1,970,000,000	18 yrs.				
E	0.0135	703,250	5 days Primary	NO		0.0347	761,504,893	28 yrs.				
F	0.0000	3,270	5 days Primary	NO	0.25 ps	98.98	13,320,260	30 yrs.				
G			Tertiary	YES			1,814,400	7 yrs.				
H	0.0000		None	NO		2,000.00	2,060,000,000	29 yrs.				
I			7 days Primary	NO	3.00	56.70		23 yrs.				
J			5 days Secondary	NO		0.0009	3,377,000	18 yrs.				
K			4 days		0.25	0.0080	2,263,000	5 yrs.				
L	0.0000	246,025	7 days Primary	NO	7.10	Unknown	420,000,000	35 yrs.				
M	100	100	5 days		0.50	0.0780	497,000,000	20 yrs.				
N			Secondary	NO	1.00	0.0065	239,200,000	2 yrs.				
O	100		5 days		0.25		1,500,000	18 yrs.				
P			7 days Secondary	NO	0.25	0.036	322,000,000	17 yrs.				
TOTAL	6,3336	1,953,245	Primary-4 Secondary-4 Tertiary-5	YES-2 NO-9 NA-5		11.0913	6,109,328,555					
AVG.			5.67 days		1.04	0.00029	10,787,458	16.6 yrs.				

1: 2al needs resample, 2al & 2cl now
 2: To be determined
 3: Below detection
 4: 2al needs resample, 2al & 2cl now
 5: 2al needs resample, 2al & 2cl now
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