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LAW DEPARTMENT

Westinghouse Building  
Gateway Center  
Pittsburgh Pennsylvania 15222

Westinghouse  
Electric Corporation  
June 15, 1989

Mr. James R. Shack  
Project Officer

Commonwealth of Pennsylvania  
Department of Environmental Resources  
Bureau of Waste Management  
Highland Building  
121 South Highland Avenue  
Pittsburgh, PA 15206-3988

Re: Westinghouse Electric Corporation  
Beaver Plant

Dear Mr. Shack:

Westinghouse appreciates the additional time allotted to compile the following information in response to your letter of April 14, 1989. Our responses are sequentially ordered to correspond with your request. For clarity, we have reiterated a brief summary of your request followed by our response.

1. Annual quantities of TCE and 1,1,1 Trichloroethane purchased by Westinghouse, Beaver Plant from 1979 to 1988. Include supplier information.

Trichloroethylene (TCE)

<u>Year</u>	<u>Total Quantities Received</u>
1979	No Records Found
1980	No Records Found
1981	6,600 gallons
1982	3,355 gallons
1983	6,710 gallons
1984	7,700 gallons
1985	3,300 gallons
1986	4,400 gallons
1987	1,110 gallons
1988	0 gallons

TCE usage was discontinued in 1987, and there have been no subsequent purchases of this material at the Beaver facility.

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1. Annual quantities (continued).

1,1,1 Trichloroethane

<u>Year</u>	<u>Total Quantities Received</u>
1979	No Records Found
1980	No Records Found
1981	10,780 gallons
1982	9,185 gallons
1983	11,916 gallons
1984	13,107 gallons
1985	10,300 gallons
1986	12,100 gallons
1987	9,658 gallons
1988	8,470 gallons

Attachment 1 identifies the names and addresses of the suppliers, along with the annual quantities received from each supplier.

2. Annual use (consumption) of TCE and 1,1,1 Trichloroethane from 1979 through 1988.

Records do not exist for the actual quantities of materials consumed or used in the processes at the Beaver facility. However, based on the purchasing information detailed above, the average usage of TCE during the 1981-1987 timeframe was less than 100 gallons per week. Since plant processes did not radically change from 1979 to 1981, this average usage figure is likely representative of the 1979 - 1987 time frame. TCE usage was discontinued in 1987, and there has been no subsequent usage of this material. The average usage of 1,1,1 Trichloroethane during the 1981 - 1988 timeframe was about 200 gallons per week. Again, this is based on the purchasing information provided in Question 1. Plant operations did not change from 1979 to 1981, therefore, the average usage figure during this timeframe should be appropriate. During 1989, Westinghouse - Beaver is gradually replacing 1,1,1 Trichloroethane with alternate materials.

More precise consumption/usage quantities can not be estimated since material usage is a function of numerous factors, including plant operations and product demand. Plant operations and demand are highly variable, and include peak production days and idle periods. Furthermore, both TCE and 1,1,1 Trichloroethane readily volatilize and evaporate, thereby possibly misconstruing estimated consumption/usage quantities and requirements.

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3. Processes that use TCE and 1,1,1 Trichloroethane, and the storage of these chemicals. Include specifics regarding how, when and where.

Please refer to our October 25, 1988 submittal for additional details and drawings regarding this question. Based on our knowledge and understanding, the facilities that historically or currently use(d) TCE and 1,1,1 Trichloroethane during the 1979 through 1988 timeframe, are as follows:

A-4 Plating Process:

Degreaser (Manpro) - Beaver Equipment Number (B.E.) 3333.

Used TCE. This degreaser is located at Columns AX/5, and was removed in 1984.

Degreaser (Baron Blakeslee) - B.E. 3898.

Used TCE. This degreaser was located in Area A-2 near Columns AB/3-4, and was removed in 1987. The process has been replaced by the aqueous parts washer.

Degreasing Operations:

Degreaser (Ramco) - B. E. 4928.

This degreaser used TCE until it was converted to freon usage in 1987. It is located near Columns JK/29-31.

Cold Degreasers (3):

Cold degreasers used 1,1,1 Trichloroethane, and were converted to freon in 1989. The degreasers are located at Columns KL/12-14, K/5-8, KL/11-12; and designated as B.E. 4332, 4217 and 4926 respectively..

Screw Machines:

1,1,1 Trichloroethane is used for cleaning parts and machines in the A-2 screw machine area near Columns AF/1-5. This area was omitted in our previous response, and was an oversight on our part. Westinghouse is gradually replacing 1,1,1 Trichloroethane with kerosene in this area.

Small Quantity Users:

Other small quantity (5 gallons or less) users of 1,1,1 Trichloroethane include small containers located at Columns BC/1, CD/39, E/29, JK/1, JK/11, JK/28 and K/1-2. Small quantities of 1,1,1 Trichloroethane are issued from the storage areas identified below, and the ultimate usage destination and applications varies radically with production, but generally comprehend the areas itemized herein.

Receiving and Storage Areas:

Since 1979, 1,1,1 Trichloroethane was received and stored near Columns AB/24-31, AB/39-41. One drum of 1,1,1 Trichloroethane is also stored near Column K/1-2 for dispensing of small quantities for machine and parts cleaning. TCE was received and stored near Columns AB/24-31, AB/39-41 from 1979 through 1987.

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3. Processes (continued).

RCRA Storage Areas:

Waste TCE and 1,1,1 Trichloroethane:

1974 - 1984      Outside area against the building at  
Columns FG/63-67.

1984 - 1988      Inside the High Rise at Columns AB/61-64.

Waste 1,1,1 Trichloroethane:

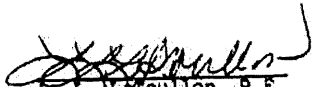
1988 - Present      Former A-9 Plating Area near Columns  
AX/16-21.

4. Were there any releases, as defined in CFRCA (?) of TCE and/or 1,1,1 Trichloroethane from 1979 to 1988?

To the best of our knowledge, there were no releases, as defined in CERCLA, of TCE or 1,1,1 Trichloroethane at the facility from 1979 to present.

We trust this information, coupled with the documents previously submitted, addresses the Department's concerns.

Sincerely,

  
E. L. Lesoullon, P.E.  
Project Engineer  
Environmental Remediation  
Environmental Affairs

cc: E. Farland - Beaver  
R. E. Wills Jr.

2718v/4

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ATTACHMENT 1

WFL 005 1493

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Total TCE and 1,1,1 by Year and Supplier  
Purchased by Westinghouse Electric, Beaver, PA  
1988

Trichloroethane 1,1,1

Van Waters & Rogers, Inc. 6000 Casteel Drive Conaspolis, PA. 15108	received	8,470 gal
Total received in 1988		8,470 gal

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Total TCE and 1,1,1 by Year and Supplier  
Purchased by Westinghouse Electric, Beaver, PA  
1987

Trichloroethylene

Chemply P.O. Box 18049 Pittsburgh, PA. 15230	received	1,110 gal
Total received in 1987		1,110 gal

Trichloroethane 1,1,1

Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15043-1099	received	4,840 gal
Van Waters & Rogers, Inc. 5000 Casteele Drive Conradopolis, PA. 15108	received	4,818 gal
Total received in 1987		9,658 gal

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Total TCE and 1,1,1 by Year and Supplier  
Purchased by Westinghouse Electric, Beaver, PA  
1986

Trichloroethylene

Chemply P.O. Box 18049 Pittsburgh, PA. 15236	received	4,400 gal
Total received in 1986		4,400 gal

Trichloroethane 1,1,1

Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1099	received	12,100 gal
Total received in 1986		12,100 gal

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Total TCE and 1,1,1 by Year and Supplier  
Purchased by Westinghouse Electric, Beaver, PA  
1985

Trichloroethylene

Chemply P.O. Box 18049 Pittsburgh, PA. 15236	received	1,100 gal
Textile Chemical Company 1085 Allegheny Avenue Oakmont, PA. 15139	received	2,200 gal
Total received in 1985		3,300 gal

Trichloroethane 1,1,1

Chemply P.O. Box 18049 Pittsburgh, PA. 15236	received	4,730 gal
Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1099	received	1,210 gal
Van Waters & Rogers, Inc. 5000 Casteel Drive Conrad, PA. 15108	received	4,360 gal
Total received in 1985		10,300 gal

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Total TCE and 1,1,1 by Year and Supplier  
Purchased by Westinghouse Electric, Beaver, PA  
1984

Trichloroethylene

Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1099	received	550 gal
Interstate Chemical Co., Inc. 2797 Freedland Road West Middlesex, PA. 16159	received	2,750 gal
Tristate Chemical Company 1280 Allegheny Avenue Oakmont, PA. 15139	received	4,400 gal
Total received in 1984		7,700 gal

Trichloroethane 1,1,1

Van Waters & Rogers, Inc. 6000 Castrol Drive Conaopolis, PA. 15108	received	13,107 gal
Total received in 1984		13,107 gal

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Total TCE and 1,1,1 by Year and Supplier  
Purchased by Westinghouse Electric, Beaver, PA  
1983

Trichloroethylene

Textile Chemical Company 1085 Allegheny Avenue Oakmont, PA. 15139	received	6.710 gal
Total received in 1983		6.710 gal

Trichloroethane 1,1,1

Chemply, P.O. Box 18049 Pittsburgh, PA. 15236	received	1.760 gal
Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1099	received	3.485 gal
Van Waters & Rogers, Inc. 6000 Casteel Drive Conaopolis, PA. 15108	received	6.691 gal
Total received in 1983		11.936 gal

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Total TCE and 1,1,1 by Year and Supplier  
Purchased by Westinghouse Electric, Beaver, PA  
1982

Trichloroethylene

Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15043-1099	received	390 gal
Textile Chemical Company 1085 Allegheny Avenue Oakmont, PA. 15139	received	3.365 gal
Total received in 1982		3.365 gal

Trichloroethane 1,1,1

Chemply P.O. Box 19149 Pittsburgh, PA. 15236	received	5.060 gal
Van Waters & Rogers, Inc. 6000 Casteele Drive Coraopolis, PA. 15108	received	4.125 gal
Total received in 1982		9.185 gal

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Total TCE and 1,1,1 by Year and Supplier  
Purchased by Westinghouse Electric, Beaver, PA

1981

Trichloroethylene

Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1092	received	6,600 gal
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Total received in 1981 6,600 gal

Trichloroethane 1,1,1

Chemply P.O. Box 18049 Pittsburgh, PA. 15236	received	1,430 gal
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Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1092	received	9,350 gal
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Total received in 1981 10,780 gal

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