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Westinghouse Building
Gateway Center
Pittsburgh Pennsylvania 15222

Westinghouse
Electric Corporation
June 15, 1989

Mr. James R. Shack
Project Officer

88/4007
Lect 189

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

Administrative Record

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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1. 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

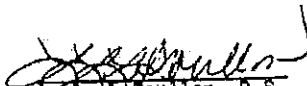
Former A-9 Plating Area near Columns
AX/16-21.

4. Were there any releases, as defined in CERCLA (?) 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,


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

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

2718V/4

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ATTACHMENT 1

WPL 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 Castlee Drive Conaopolis, 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

Chemco P.O. Box 18049 Pittsburgh, PA.	10030	received	1,110 gal
Total received in 1987			1,110 gal

Trichloroethane 1,1,1

Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1099		received	4,840 gal
Van Waters & Rogers, Inc. 5000 Crested Drive Conococheague, 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. 15230	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	4,750 gal
Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1099	received	1,210 gal
Van Waters & Rogers, Inc. 8000 Casteel Drive Conradopolis, PA. 15108	received	4,360 gal
Total received in 1985		10,320 gal

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Total ICE 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	55.0 gal
Interstate Chemical Co., Inc. 2797 Freedland Road West Middlesex, PA. 16159	received	2,750 gal
Triclor Chemical Company 180 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 Donopolis, 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	3.465 gal
Van Waters & Rogers, Inc. 6000 Castal Drive Coraopolis, PA. 15108	received	6.691 gal
Total received in 1983		11.916 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. 15042-1099	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 18749 Pittsburgh, PA. 15236	received	5,080 gal
Van Waters & Rogers, Inc. 6000 Casteel Drive Conradopolis, PA. 15108	received	4,125 gal
Total received in 1982		9,125 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. 15042-1099	received	6,600 gal
Total received in 1981		6,600 gal

Trichloroethane 1,1,1

Chemply P.O. Box 18049 Pittsburgh, PA. 15235	received	1,430 gal
Ashland Chemical Company 150 West Fourth Avenue Freedom, PA. 15042-1099	received	9,350 gal
Total received in 1981		10,780 gal

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