W. B. Papageorge - World Headquarters

September 27, 1972 J. H. Davidson

Mr. S. Roehr
Brussels

In response to your telex request to J. H. Davidson for information about Monsanto's polychlorinated biphenyl (PCB) incinerator, the following information may be of interest:

1. Capacity - Incinerators of this type are normally rated for a given heat release. The nominal capacity of the Monsanto incinerator is 1,250 lbs./hr. of Aroclor 1242. This corresponds to a heat release of 13M BUT/hr.

2. Feed Types - This incinerator was designed for a full range of chlorinated and non-chlorinated products. Still bottoms, solvents of various sorts, material containing lime--virtually any flowable material can be fed to this incinerator.

   Because some of the feed material was to contain lime (up to 2%), the refractory had to be carefully chosen. The original refractory proved unsatisfactory. A high alumina (high cost) brick is now being considered for replacement following an extended test period. PCBs caused leaching of silica from original brick and thus caused premature failure.

3. For HCl Gas Disposal - A scrubber system was installed. A venturi scrubber is used to assure wetting of particulates. A packed column following the venturi is used to scrub out the HCl.

4. Oxidation Temperatures - This must be coupled with residence time in the oxidizer. Both are needed for complete PCB destruction. Higher chlorination levels require higher temperatures for destruction. The Monsanto incinerator is designed for 2,800°F (for Aroclor 1260). Normal operating temperatures are in the range of 2,200-2,500°F. Residence time is about 2.5 seconds.

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5. Supplier of Equipment - John Zink Company, P. O. Box 7388, Tulsa, Oklahoma 74105. Each incinerator is custom designed.

I hope you find this information useful. If I can be of further service please let me know.

W. B. Papageorge

/bt

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