



February 25, 2005

Mr. Roy R. Van Wyckhouse, CQA  
Dielectric Laboratories, Inc.  
2777 Route 20 East  
Cazenovia, NY 13035-9433

Re: RoHS Evaluation

File: 6192/36441

Dear Mr. Van Wyckhouse:

On February 15, 2005, Mr. David Meixell of O'Brien & Gere conducted a site visit at Dielectric Laboratories, Inc. (Dielectric) in Cazenovia, New York. The purpose of this visit was to review documentation as part of an evaluation related to the European Union's Reduction of Hazardous Substances (RoHS) Directive 2002/95/EC (RoHS Directive). This work was performed in accordance with our February 9, 2005 agreement.

#### Background

The RoHS Directive identifies the following six constituents that are to be eliminated after July 1, 2006 from electronic equipment being shipped to the EU:

- Lead
- Hexavalent chromium
- Cadmium
- Mercury
- Polybrominated byphenyls (PBBs)
- Polybrominated diphenyl ethers (PBDEs)

To investigate the potential presence of these materials, O'Brien & Gere reviewed Product Formulation Sheets for the following ceramic capacitors manufactured by Dielectric:

- Single Layer Capacitors
- "Heat Sink"
- Multi Layer Capacitors
- Ceramics associated with Multi Layer Capacitors, including "AH," "CF," "BL," and "UL" ceramics

#### Summary of Evaluation

O'Brien & Gere reviewed product formulation sheets provided by Dielectric and prepared a comprehensive list of constituents. After the relevant formulation sheets were reviewed, specific material safety data sheets (MSDSs) of the listed constituents were then also reviewed. It should be noted that Dielectric's "binder" materials are not listed on the formulation sheets. Binders are organic



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materials used in the initial mix of constituents, but are volatilized during the “bake-out” and final firing steps in the manufacturing process at Dielectric. The MSDSs for the binder materials were also reviewed to assess whether PBBs, PBDEs or the other four constituents listed in the RoHS Directive were listed as components.

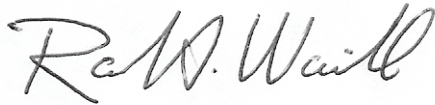
Summary of Results

Based on the review of the formulation sheets and MSDSs of materials referenced on the formulation sheets, the six constituents of concern noted in the RoHS Directive were not identified as being present in the listed Dielectric products that were evaluated. O’Brien & Gere’s scope of work included the review of the referenced documentation, and did not include the performance of laboratory testing and analyses. Therefore, some of the constituents of concern noted in the RoHS Directive could be present in these products as contaminants or in low concentrations. However, they are not listed on the specific MSDSs currently available for the constituents evaluated.

We appreciate the opportunity to provide continuing services to Dielectric. If you have any questions on this matter, please contact Dave Meixell or me at (315) 437-6100.

Very truly yours,

O’BRIEN & GERE ENGINEERS, INC.

A handwritten signature in cursive script that reads "Randy S. Waibel".

Randy S. Waibel, CHMM  
Managing Associate

cc: David K. Meixell, P.E. – O’Brien & Gere