



FOR IMMEDIATE RELEASE

Company Develops Critical Process Control Laboratory for Assembly Cleanliness Monitoring

Durham, Connecticut – September 2009 – Technical Manufacturing Corporation announced this month that it has completed development of their Critical Process Control (CPC) laboratory at its Durham, Connecticut facility. The Critical Process Control laboratory was developed in order to more closely monitor process controls used in the production of printed circuit board assemblies for customer applications that require exceptionally high cleanliness standards. The laboratory is built upon the award-winning Dionex ICS-3000 dual-column gradient pump ionic chromatography system operating with the Chromeleon software package, which is able to detect and quantify the seven anions (bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate), six cations (ammonium, calcium, lithium, magnesium, potassium and sodium) and various weak organic acids (WOA) defined as contamination in the Association Connecting Electronics Industries IPC-TM-650 (paragraph 2.3.28A) specification.

The presence of anion, cation and weak organic acid contamination on a printed circuit board fabrication or assembly can indicate a lack of process control in both the supply chain for raw materials and for process control parameters used in the production of finished goods. Excessive amounts of contamination on or around sensitive electronics circuitry can lead to an intermittent operation of the circuit, reduce the mean-time-between-failure (MTBF) of the circuit or result in complete circuit failure altogether, making the importance of maintaining a laboratory for the continuous monitoring of ionic contamination on all levels of the manufacturing process clear.

In addition to the Dionex ICS-3000 ionic chromatography system, the laboratory is also equipped with an ELGA deionized water processing system for ultrapure 18.2mOhm type-1 water and a Thermo Precision circulating water bath, both of which are required to successfully perform ionic chromatography testing in accordance with the specification. Ionic contamination testing is performed by trained personnel for each applicable production build, the results of which are formatted in a standard report and presented to the customer as a quality document prior to shipment.

About Technical Manufacturing Corporation

Technical Manufacturing Corporation is a Connecticut-based contract electronics manufacturing company that has been successfully providing electronics manufacturing services to small and Fortune 500 companies worldwide since 1985. We build a wide variety of products for our customers, which are used in many different commercial and military applications across all industries including the medical, computer, automotive, aerospace, test & measurement and telecommunications. For more information, please visit us on the internet at www.techmfgcorp.com or contact David Bonito, Sales & Marketing Manager by email at dbonito@techmfgcorp.com or by phone toll-free at (888) TECH MFG.

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