



FOR IMMEDIATE RELEASE

July 15, 2011

Stilwell Baker Engineers New Power Supply for Superior Technical Services Win

Vancouver, WA – Custom electronics design firm, Stilwell Baker, Inc (SBI), announced the successful completion of a legacy power supply re-design for Superior Technical Services (STS). STS needed a solution for failing discreet power supplies on Scanning Electron Microscopes (SEMs). By employing reverse engineering expertise, SBI managed the project to a positive and cost effective outcome by designing a single, high MTBF multiple output power supply to replace the original equipment, thus extending the useful life of the legacy SEMs.

STS provides service and maintenance for third- and fourth-generation charged particle equipment, including SEMs. The original SEM design called for three discreet power supplies. Each of them had a high failure rate due to design problems. Replacement with new OEM versions was too expensive and repair was fraught with numerous logistical problems.

To provide their customers a single upgraded replacement power supply, at the same cost as purchasing three discrete supplies from the OEM, STS contracted with Stilwell Baker. SBI engineers went onsite to characterize the power supply requirements in the various models of SEMs supported by STS. The SBI team then wrote a detailed specification, designed, and built the new power supply. STS Founder, David Fisher, described the relationship between the two companies as "...a good partnership where we both use our core skills. My company identified the need and gave focused direction. Stilwell Baker used their experience in manufacturing and electrical engineering to make a product that is robust, cost effective, and well documented."

The new power supply design has significantly more capability: increased reliability to 500,000-hour MTBF, full output and input protections, voltage monitoring indicators on the outputs, and better line and load regulation. It extends the life of these legacy SEMs, keeping the older equipment running longer. Stilwell Baker Founder, Darrel Baker, described the result as, "a product that is highly reliable, natural convection-cooled, and functionally identical to the original at a lower cost to the end customer."

Superior Technical Services provides service and maintenance for third- and fourth-generation charged particle equipment, including Scanning Electron Microscopes. More information on Superior Technical Services can be found at www.superior-technical.com, or by phone at (503) 764-1456.

Stilwell Baker designs and manufactures custom electronics, in the USA, to regulatory standards. SBI engineers, reverse-engineers, or upgrades complete electronic systems for many industries including aviation, medical, and industrial controls. SBI specializes in small run projects, and complete turnkey solutions—from design through prototype and manufacturing. For more information, visit www.stilwellbaker.com, or call 971-252-4200.

###