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PRESS RELEASE

For Immediate Release

GLOBAL TECHNOLOGY CONNECTION AWARDED GENERATOR PROGNOSTICS AND DIAGNOSTICS PROGRAM BY NAVAIR

Atlanta, GA. April 22, 2008 – Global Technology Connection, Inc. announced today that it had been awarded Phase II of a multi-phase Small Business Technology Transfer (STTR) Award from the US Navy (NAVAIR). The Phase II objective of the award is to develop and implement prototype diagnostic and health management architecture and algorithms for electrical power systems, in particular, aircraft electric generators. This included detecting and isolating generator failure modes and assessing long term generator health.

The three electrical power systems critical to aircraft maintenance, readiness, and safety are: generators, converters and batteries. The maintenance philosophy prevailing in the Navy today is to run electrical equipment until a failure forces the removal of the specific unit. In the case of generators, this could lead to a catastrophic failure that renders the generator non-repairable and, thus loss of expensive equipment. Specifically in the case of certain aircraft designs, generator failures are abundant and cause a flight safety issue. Currently, diagnostic / prognostic technologies are not implemented for these generators and other electrical power systems.



This project is intended to demonstrate the feasibility of the diagnostic/prognostic algorithms with the walk-up tester for the generators. We envision the integration of off-board generator diagnostic system (walkup tester) into health management systems for aircraft in near future. This will encompass final optimization of the generator diagnostic / prognostic system and its user interface. Eventually, an onboard generator diagnostic system, by embedding the developed diagnostic/prognostic algorithms in the GCU (or available health usage monitoring system), will be developed for in-flight operation.

For more information, please contact Dr. Ash Thakker and Dr. Freeman Rufus at (770) 803-3001.