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Ridgetop Group Earns Patent for Innovative Method of Detecting Performance Variations in Electronic Devices

TUCSON, Ariz.—May 7, 2012

Ridgetop Group Inc., a world leader in electronic prognostics, today announced that the U.S. Patent and Trademark Office (USPTO) has issued a key patent covering its method of monitoring the status of components within a digital system.

Patent No. 8,134,373, entitled “Apparatus and Method for Detecting Performance Variations,” was issued on March 13, 2012. The invention detects performance variations using power-line input/output signals and bitstream correlations. Ridgetop’s investigator and patent co-inventor is James Hofmeister, Principal Research Engineer.

Electronic prognostics monitor and assess the operational status of electronic devices. The goal, beyond predicting the overall lifecycle of a device, is to determine the cause or causes of the eventual failure as well as the point in time where performance begins decreasing. To accomplish this, electronic prognostics rely on precursor signatures. These electronic signatures indicate changes in operation that become metrics used to determine the “health status” of a digital device. The subject invention provides a method for monitoring and determining the state of health of electronics, supporting electronic prognostics.

“We are extremely pleased that the USPTO has issued this significant patent covering our monitoring the status of components within a digital system method and circuit apparatus,” said Doug Goodman, Ridgetop’s president and CEO. “We believe that the issuance of this patent further strengthens our position as a leader in electronic prognostics by granting the intellectual protection of our innovation, while allowing us to provide our clients with state-of-the-art solutions.”

About Ridgetop Group

Established in 2000, Ridgetop Group is a Tucson, Arizona-based firm that produces electronic solutions for harsh environments and challenging applications. The firm is qualified as an aerospace supplier under its AS9100C certification, and became a Category 1A Trusted Supplier under the DoD’s Trusted Foundry Program in 2010. A privately held firm, Ridgetop operates two divisions in Tucson, and has a related subsidiary firm based in Europe near the European Space Agency facilities.

For further information, please visit our website at www.ridgetopgroup.com or contact information@ridgetopgroup.com.

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