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FOR IMMEDIATE RELEASE …

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RIDGETOP GROUP AWARDED CONTRACT FOR MOSFET PROGNOSTICS

Ridgetop Group, Inc., of Tucson, Arizona, has been awarded a Naval Air System Command (NAVAIR) contract to develop electronic prognostic health management capabilities (ePHM) for metal oxide semiconductor field effect transistor (MOSFET) devices and circuits. Ridgetop will use the $80,000 Phase I award to design a board-level prognostic chip that is able to monitor the parametric shift of critical MOS parameters and detect impending IC failures. MOSFETs are an important building block for integrated circuits.

The excursion of certain MOSFET device parameters is intimately connected to performance degradation and aging, thus significantly impacting both the progression from fault to failure and the remaining useful life (RUL) of MOSFET-based components.

Using data provided by ePHM monitoring, necessary corrective actions can be taken to avert a catastrophic event. The data can also be used to develop broad-based prognostic models that integrate electronic health monitoring with canary indicators of end-of-life and life-consumption monitoring to accurately predict RUL.

“The capability that Ridgetop will provide to NAVAIR to predict electronic aging and end-of-life failure modes in MOSFET devices will greatly enhance system safety and reliability, as well as reduce overall ownership costs and increase mission readiness rates,” said Doug Goodman, Ridgetop CEO.

The new MOSFET prognostic models must execute on a standard PC platform, and Ridgetop is well-positioned to ensure this requirement as a result of ongoing development of a software prototype for an off-wing Prognostic Health Manager (PHMPro™).

Ridgetop Group, Inc. is the world-leader in electronic prognostics and reliability Built-in Self Test (BIST). Headquartered in Tucson, Arizona, the firm was founded in 2000 and has built an impressive customer list of both government (NAVAIR, NASA/Goddard, NASA/Ames, NAVSEA, Air Force) and commercial customers, including Honeywell and several large domestic and international semiconductor firms.

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