

04 August 2009

Meggitt to cut combat vehicle energy and fuel costs up to 60%

Meggitt Defense Systems Inc. (MDSI) of Irvine, CA, and Patrick Power Products Inc. (P3I) of Elkridge, MD, announced the development of a family of rugged, energy and fuel efficient Auxiliary Thermal Management and Power Systems for current and future ground combat vehicles. The new integrated Auxiliary Cooling and Power Units (ACPU) are designed to power and cool the planned growth of combat vehicle electronics on today's and tomorrow's platforms. The ACPU's are being developed from combat proven cooling products like the M1A2SEP Thermal Management System produced by MDSI for the US Army for over 10 years and the recently demonstrated US Army Multi-Fuel Rotary Auxiliary Power Unit for the Abrams Main Battle Tank by P3I.

MDSI and P3I have partnered to develop and demonstrate combat ready, affordable, energy efficient, power and thermal management solutions that can be easily integrated and supported on a number of US Army and international Ground Combat Vehicles. The ACPU is optimized for Size, Weight and Power (SWaP) effectiveness, power and thermal management efficiency, and reliability to operate on a variety of platforms in any and all environments. The ACPU is designed to easily integrate onto today's platforms and for growth while significantly reducing the dependence on vehicle main engine power generation in support of tomorrow's combat vehicle command, control, communications, defensive and offensive weapon systems electronics and avionics.

MDSI and P3I estimate that the integrated ACPU could reduce dependence on vehicle engine power and cooling by over 40% on platforms like the M1A2, M2A3 and Stryker family of combat vehicles while reducing wasted energy and vehicle fuel consumption and resulting logistics footprint by over 60%.

According to Gerald Janicki, Senior Director Business Development at MDSI "We have selected Patrick Power Products based on their leadership in heavy fuel auxiliary rotary power for combat vehicles as demonstrated recently on the US Army Abrams platform. This partnership is focused on a potential market for these products in the hundreds of millions of dollars for integrated auxiliary cooling and power units for ground combat vehicles."

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About Meggitt Defense Systems and Meggitt PLC

Meggitt Defense Systems, a Meggitt group company, specializes in the design, development and production of environmental control, ammunition handling, and training systems for the US armed forces and its allies. Meggitt Defense Systems in Irvine, CA, has produced over 1,300 Thermal Management Systems for the M1A2SEP and is currently developing its third generation of Combat Thermal Management Systems for the US Army MULE Program.

Meggitt PLC is an international group headquartered in the United Kingdom, operating in North America, Europe, and Asia. Known for its specialized extreme environment engineering, Meggitt is a world leader in the aerospace equipment, sensing systems, combat support and defense systems.

About Patrick Power Products Inc.

Patrick Power Products, Inc. (P3I) is a Small Business established in 1999 with offices and facilities located in Elkridge, Maryland. P3I has developed a Multi-Fuel Auxiliary Power Unit under contract to the US Army. The unit, which was successfully demonstrated as integrated into the Abrams tank, is undergoing field testing at US Army proving grounds in Yuma, AZ. Other DoD systems utilizing P3I technology are currently under development.



Press information

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