



FOR IMMEDIATE RELEASE

SPRAYCOOL AWARDED ADDITIONAL LIQUID COOLED ELECTRONICS ENCLOSURE CONTRACT FOR THE MARINE CORPS EXPEDITIONARY FIGHTING VEHICLE BY GENERAL DYNAMICS



Liberty Lake, WA– April 21, 2008 – **SprayCool®**, a recognized leader in the development of advanced thermal management solutions for the military, announced today that it was awarded a contract by General Dynamics, to supply additional enclosures for the Command Variant of the USMC Expeditionary Fighting Vehicle ([EFV](#)). The units will be used to support ongoing hardware/software integration efforts throughout the current System Design and Demonstration (SDD) phase.

Once deployed, the EFV will help the Marines sustain inland combat operations by maximizing tactical surprise; minimizing vulnerability on land; providing improved firepower, lethality, and survivability; and providing on-the-move command and control capabilities. The heart of the C2 architecture is the Multi-Processor Unit ([MPU](#)) that SprayCool is under contract to provide.

The Command variant of the USMC EFV uses high-end commercial grade electronics in a SprayCool enclosure to deliver mission processing demands. The commercial boards in the SprayCool MPU which were originally designed to be air cooled include five servers, a switch, an I/O board, and two expansion cards. The SprayCool MPU's are fully rugged, sealed enclosures that enable commercial boards to meet the temperature, vibration and EMI requirements of MIL-STD 810F and MIL-STD 461, and have been extensively tested in the EFV vehicle environment.

The SprayCool [9-slot enclosure](#) uses the company's patented 2-phase liquid cooling technology for maximum environmental control and flexibility, and can operate in temperatures ranging from -40°C to

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+60 °C. The product is also easily upgradeable, capable of accepting a wide range of card types within the same chassis, simplifying the technology refresh cycle. It provides years of thermal headroom as it is capable of supporting cards sets of almost twice the power and thermal load as those deployed today. The [EFV](#) program has leveraged this feature during development, with new cards and capabilities added almost every 2 years with minimal NRE expense, saving the program costs and schedule.

SprayCool Technology

SprayCool patented [2-phase liquid cooling technology\(see video\)](#) uses a fine mist of non-corrosive, non-conductive liquid, sprayed in a thin layer, which evaporates and cools electronics. The process continuously cycles within a sealed, closed loop system. In doing so, SprayCool products isolate the electronics from dirty, corrosive environments found in military and industrial applications resulting in cooler, higher performance, and more durable electronic devices.

About SprayCool

SprayCool (formerly known as Isothermal Systems Research) is a global leader in developing electronics thermal management products and systems for DOD and Intelligence [applications](#), using its patented two-phase cooling technology. The resulting electronics thermal management solutions uniquely provide a climate controlled environment to cool any electronics in a package that is significantly smaller, lighter and more power and cost efficient. SprayCool solutions are sourced by a variety of today's leading prime and system integrators to support the military's most demanding application needs. Founded in 1988, SprayCool is a privately held corporation headquartered in Washington State. For more information, please visit www.spraycool.com

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