



For Immediate Release

---

## SprayCool Awarded Another Liquid-Cooled Enclosure Contract by General Dynamics for the Expeditionary Fighting Vehicle (EFV)

---



**Liberty Lake, WA– April 14, 2009** – **SprayCool®**, a recognized leader in the development of advanced thermal management solutions for the military, announced today that it was awarded an additional contract by General Dynamics, to supply more enclosures for the Command Variant of the USMC Expeditionary Fighting Vehicle (EFV). The units will be used on the second phase of System Development and Demonstration (SDD-2) prototype vehicles to support reliability and operational assessment testing. The vehicle milestone “C” approval is slated to follow the operational assessment testing in late 2011 followed by Low Rate Initial Production (LRIP) in fiscal year 2012 if successful. The Marine Corps plans to procure 573 vehicles, including 50 command variants by 2025.

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 Command and Control (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 embedded electronics from GE Fanuc in a SprayCool enclosure to deliver mission processing capabilities. The commercial boards used in the SprayCool MPU 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.

- more -

The SprayCool-provided MPU is a 9-slot direct-spray rugged enclosure that offers maximum environmental isolation and flexibility for commercial grade cards, and can operate in temperatures ranging from -40°C to +60 °C. The product is easily upgradeable, capable of accepting a wide range of card types within the same chassis, simplifying the technology refresh cycle. It also provides years of thermal headroom as the base enclosure supports 400 watts of electronics by itself, and then coupled with a heat exchanger that mounts underneath the enclosure, is capable of supporting cards sets of almost twice the power and thermal load (900 watts) as those deployed today. The EFV program has leveraged this feature during development, with new cards and capabilities added almost every 2 years.

“We are pleased to be a part of the General Dynamics EFV team, and look forward to supporting the SDD-2 program”, says Matt Gerber, SprayCool president and chief executive officer. “We are confident that these SprayCool enclosures will provide General Dynamics with the flexibility they need to support the inevitable C<sup>2</sup> capabilities growth requirements of the future”, he added.

## **SprayCool Technology**

SprayCool patented [two-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. The technology provides an efficiently controlled and isolated environment for a broad mix of electronics in a package that is significantly smaller, lighter, and more power and cost efficient, and faster to deploy by the integrator.

## **About SprayCool**

SprayCool is a global leader in the development of current and next-generation electronics thermal management and environmental isolation enclosures and systems products for military and aerospace, and industrial applications, using its patented two-phase liquid cooling technology. SprayCool works with today's leading integrators to meet the military's most demanding requirements, and is gaining wide acceptance on a number of key reconnaissance, command & control, and EW programs. Platforms using SprayCool include manned and unmanned fixed-wing aircraft (*U-2, Global Hawk, Predator, Warrior*) and rotorcraft (*Black Hawk*) as well as amphibious (*EFV*) and missile defense systems (*MEADS*) among others. Founded in 1988, SprayCool is based in Liberty Lake, WA and markets its products through a global network of partners and integrators. For more information, please visit [www.spraycool.com](http://www.spraycool.com)

### **Press Contact:**

Marie Hartis, Director of Marketing & Communications 509.241.4518 [mhartis@spraycool.com](mailto:mhartis@spraycool.com)