



## SPRAYCOOL AWARDED NORTHROP GRUMMAN CONTRACT FOR AIR FORCE AIRCRAFT ELECTRONICS ENCLOSURES

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*SprayCool® Technology Cited as Key to Installing New Sensor in Extremely Harsh Environment*

**Liberty Lake, WA – March 11, 2008** – SprayCool, a recognized leader in advanced thermal management products and solutions for the military, announced today a follow-on sustainment contract with the Northrop Grumman Corporation (NYSE: NOC) ISR Systems Division to provide additional SprayCool liquid-cooled chassis for the Air Force Airborne Signals Intelligence Payload (ASIP) program.

The additional SprayCool chassis are being procured to support operational sustainment of three systems installed on the Air Force's U-2 Dragon Lady high altitude surveillance and reconnaissance aircraft. The 20-slot VME chassis will support from 400 to 1,200 watts of electronics processing power.

The patented SprayCool two-phase liquid-cooled enclosure is unique in its ability to control the operating environment by maintaining optimum temperatures for a variety of computing and power electronics in the chassis. SprayCool's ASIP chassis are critical because the electronics operate in a tightly controlled environment that requires modulating between heating and cooling throughout the mission. The resulting controlled operating environment provides improved electronics performance and increased reliability over other enclosure configurations. Fundamentally, it is SprayCool's advanced thermal managed chassis that enables the installation of the U-2's high performance ASIP sensor in unpressurized sections of the aircraft.

"This follow-on contract with Northrop Grumman is a direct result of the success demonstrated by our SprayCool chassis during the ASIP flight test program over the last year," said Matt Gerber, president and chief executive officer of SprayCool, "and we are pleased to know that the Air Force will transition the ASIP sensor to operational missions, and that our SprayCool chassis will be an integral piece of the system solution for the warfighter." Gerber added that the primary reason Northrop Grumman selected SprayCool was that the two-phase liquid cooled enclosure enables installation of their high-performance signal processors in unpressurized areas of the aircraft.

"This SprayCool temperature-controlled chassis supports the inclusion of RF, digital and other enabling electronics, and provides reliable and consistent collection of reconnaissance information at high altitude, even in unpressurized aircraft, and this helps keep ground warfighters out of harms way." said Gerber. SIGINT is especially critical in the Global War on Terror (GWOT) where intelligence in urban environments is paramount.

The SprayCool liquid cooled chassis will be delivered to Northrop Grumman in 2008.

**About SprayCool**

SprayCool (Isothermal Systems Research Inc.) is a global leader in developing electronics thermal management products and systems for military 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](http://www.spraycool.com)

**About Northrop Grumman**

Northrop Grumman Corporation is a \$32 billion global defense and technology company whose 120,000 employees provide innovative systems, products, and solutions in information and services, electronics, aerospace and shipbuilding to government and commercial customers worldwide.

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