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Quallion Battery Powers U.S. Military Satellite (TacSat 4) Launched Today *Company's First Battery Launched into Orbit*



Sylmar, Calif. (Sept. 27, 2011) - Quallion LLC announces that its first satellite battery was launched into orbit today at 08:49 PST from the Alaska's Kodiak Launch Complex. The battery is being used to power the U.S. Navy's new joint tactical communications satellite, the Tactical Microsatellite (TacSat-4).

Funded by the Office of Naval Research (ONR), the TacSat-4's is designed to augment traditional satellite communication, supplying 10 legacy ultra-high-frequency (UHF) channels. It has the ability to allow warfighters to use a regular handheld radio for communication on the move, eliminating the need to have an antennae set up in the field for data transmission.

The goal is to expedite the satellite's assembly and launch process to allow for quicker deployment of naval satellites. Quallion's battery supports this process by supplying light-weight batteries that offer repeated deep discharge capability and flexibility in power consumptions for various mission payloads. The patented ZeroVolt™ technology allows for long storage periods in a deep discharged state with no permanent capacity loss due to low voltage, allowing the battery to be pulled from "off-the-shelf" when needed.

Quallion supplied the NRL with the cells for a 30 ampere-hour lithium ion battery that weighs 29.6lbs. The battery is made up of sixteen 15 ampere-hour cells, with the capability of greater than 60,000 33% Depth of Discharge (DOD) cycles.

"Partnering with the NRL to supply our satellite lithium-ion cells for the Tac-Sat 4 battery allowed our company to validate our capabilities towards other space programs" said Vince Visco, vice president of

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aerospace/military power for Quallion LLC. “In approximately 30 days our lithium ion technology will assist the satellite with its initial transmission of data, a milestone from not only NRL but for Quallion as well. While we have extensive life test data, this will be the first time that our satellite cells will be launched into orbit.”

The Navy started the program for this experimental satellite communications payload in 2006, to provide flexible up and down channel assignment, increasing the ability to operate in busy, and sometimes restrictive, UHF environments. The 450 kilogram spacecraft cost \$75 million to develop, and was built by the NRL and the Johns Hopkins University Applied Physics Laboratory.

About The Office of Naval Research (ONR)

The Department of the Navy’s Office of Naval Research provides the science and technology necessary to maintain the Navy and Marine Corps’ technological advantage. Through its affiliates, ONR is a leader in science and technology with engagement in 50 states, 70 countries, 1,035 institutions of higher learning and 914 industry partners. ONR employs approximately 1,400 people, comprising uniformed, civilian and contract personnel, with additional employees at the Naval Research Lab in Washington, D.C. For more news from Office of Naval Research, visit www.navy.mil/loca/onr/.

About Quallion LLC

The U.S. based company designs, fabricates and manufactures state-of-the-art lithium ion cells and battery packs, and develops new battery chemistries for the military, aerospace, medical and automotive industries. Building on its legacy leadership position in the medical device industry, the company has developed a range of novel enabling technologies that include the world’s smallest implantable secondary battery and the proprietary Zero-Volt™ and SaFE-LYTE™ technologies. Leveraging its core engineering capabilities, Quallion has established itself as a leader in applications where advanced battery technology, safety, reliability and custom engineering are most valued. Quallion LLC was founded in 1998 by biotechnology and aerospace entrepreneur Alfred E. Mann and lithium ion battery specialist Dr. Hishashi Tsukamoto. For more information about Quallion, visit www.quallion.com.

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