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PacSci EMC Completes Successful Launch of Company-Owned Demonstrator Satellite

Launch of PACSCISAT seeks to establish flight heritage for new technologies used in all phases of commercial space flight

CHANDLER, Ariz., June 22, 2017 — [PacSci EMC](#) has successfully launched its own on-orbit technology demonstrator satellite, PACSCISAT. The company will conduct payload tests to prove the performance of several of its commercial space technologies once the satellite is commissioned and in orbit. The mission was undertaken to give the company's customers additional assurance and confidence that an electronic controller and propulsion system perform as specified in the harsh space environment where reliability, precision and control are paramount. PacSci EMC self-funded PACSCISAT to establish flight heritage, or flight-proven history, for these products.

PACSCISAT was launched on June 22, 2017 on the Polar Satellite Launch Vehicle flight C38 (PSLV-C38) from the Satish Dhawan Space Centre in India. The satellite is equipped with two fully operational [Smart Energetics Architecture \(SEA™\)](#) controllers, four [Modular Architecture Propulsion System \(MAPS™\)](#) rocket motors, two Smart Initiators and [two space standard initiators \(103377-500\)](#).

"Undertaking this launch is a first for our company. Our customers already know they can depend on our technology, but PACSCISAT will answer the question, 'has this hardware flown in space before?' and highlights our commitment to our investment in NewSpace," said Greg Scaven, PacSci EMC's president. "Our customers don't have to take on the risk of using a supplier that does not have flight heritage – we will have done that for them."

After a two-week satellite commissioning period once the satellite is in orbit, PacSci will conduct payload tests using the SEA controllers to fire the initiators and MAPS rocket motors. MAPS is a solid, clean-burning propellant array of rocket motors, which were fired in pairs to maneuver the satellite.

SEA Technology is capable of precisely actuating hundreds of devices on launch vehicles and satellites while taking up very little volume, mass or power. It can actuate launch vehicle rocket motors, stage separation systems, release devices and deploy satellites into space. On satellites and space vehicles, SEA Technology can deploy solar arrays, scientific instruments and many other devices, and can use either pyrotechnic or non-explosive, motorized actuators in any combination needed. SEA is also at the heart of MAPS.

PacSci EMC products are used in all phases of vehicle flight beginning with ground-based operations through lift-off/boost, solid rocket booster jettison, payload fairing separation, booster separation, second stage flight, payload separation and flight termination.

ABOUT PACIFIC SCIENTIFIC ENERGETIC MATERIALS COMPANY LLC (PacSci EMC):

PacSci EMC makes critical missions possible. Throughout the product lifecycle, our employees solve the toughest technical challenges with a dedication to Safety First, Quality Every Time™. We enable success for innumerable missions on a daily basis, impacting the lives of military personnel, law enforcement officers, commercial airline pilots, astronauts, and oil field operators. For nearly a century, PacSci EMC's experience and expertise has been relied upon in the times When Milliseconds Matter™.

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