



NEWS RELEASE

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Contact: John Wranovics
M: 925.640.6402
jwranovics@curtisswright.com

Curtiss-Wright Ships Miniature Network Space Data Acquisition System for NASA's Orion Spacecraft Program

***Curtiss-Wright's MnACQ-2000 stackable networked encoding units support
next generation low-Earth orbit spacecraft***

33RD SPACE SYMPOSIUM – Colorado Springs, Co. – April 3, 2017 -- [Curtiss-Wright's Defense Solutions division](#) today announced that it has successfully delivered eight of the nine data acquisition flight units that it is building for use on NASA's Orion spacecraft planned for use in Exploration Mission-1 (EM-1), Orion's second test flight in space. Curtiss-Wright is one of only a handful of suppliers that provide electronic subsystems to both the Orion and Space Launch System (SLS) programs. The Orion spacecraft is designed to take astronauts beyond low-Earth orbit to destinations such as the Moon and Mars. To support these missions, NASA is developing the SLS rocket to provide the launch capability needed to send astronauts farther into the solar system than ever before.

"Curtiss-Wright is very proud to provide our rugged space qualified data acquisition and network technologies to both the Orion spacecraft and the SLS launch vehicle," said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. "This deployment of our space data acquisition systems highlights the continued growth of space qualified COTS solutions in the industry."

For the Orion EM-1 flight, Curtiss-Wright supplies its [MnACQ-2000 Miniature Network Data Acquisition System](#), a compact, stackable Fast Ethernet 100BASE-T-based networked encoding unit that processes and delivers packetized instrumentation data to designated network nodes. Each of the nine rugged COTS-based units built for Orion EM-1 includes a radiation tolerant

power supply, system management overhead and the specific signal conditioning modules needed to address the number and type of measurements needed during flight. Two 12-Port Ethernet switches that tie the system together and route the data and video have also been delivered for the Orion EM-1 flight. Curtiss-Wright expects to deliver the ninth and final MnACQ-2000 by the end of June 2017.

Curtiss-Wright also provides eight Pulse Code Modulation (PCM)-based Data Acquisition Units that are used to capture critical flight data for the first flight of the new SLS rocket. All eight CDAUs for Exploration Mission-1 (EM-1) have been delivered to NASA Glenn Research Center as well as four of eight EM-2 CDAUs to be used as backups for EM-1. Curtiss-Wright began shipments of the MnACQ-2000 units to Lockheed Martin, the prime contractor designing and building the Orion spacecraft, early last year. These units are for use on an engineering model of the Orion EM-1 that was built to enable testing of all of the platform software and the integrated Orion capsule.

For more information on Curtiss-Wright's experience in space programs, please visit www.curtisswrightds.com/space.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships. The company employs approximately 8,000 people worldwide. For more information, visit www.curtisswright.com.

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