

EaglePicher[®] Provides Essential Battery Technology for NASA's Artemis I Launch

A variety of batteries supplied by EaglePicher will power both the Orion spacecraft crew module as well as the Space Launch System flight termination system.

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St. Louis, MO – EaglePicher[®], a leading innovator and producer of battery power systems, today announced its batteries are onboard NASA's Artemis I mission. These batteries are vital to the mission providing power to the Space Launch System (SLS) as well as the Orion crew module. The launch of NASA's deep space exploration program, Artemis I, is the first test for future manned deep space exploration missions.



The SLS is the world's most powerful rocket to send humans on missions to deep space. EaglePicher designed and manufactured two 32-volt, 10 Ah silver-zinc batteries designated to power the flight termination system (FTS) on the SLS.

The FTS disables all propulsion elements of the rocket in case of a flight safety issue. EaglePicher is developing a silver-zinc battery to support the autonomous flight safety systems on future flights.

SLS is specifically designed to send the Orion spacecraft to the moon. EaglePicher's rechargeable, lithium-ion batteries make it possible for astronauts to live and work on the crew exploration spacecraft during future missions. The batteries contain 32 EaglePicher 30 Ah prismatic, lithium-ion cells. EaglePicher designed and crafted the batteries to withstand the challenging environmental requirements of the Artemis I mission.

These 120-volt lithium-ion batteries will provide the entire main power for the crew module, which includes communications, navigation, propulsion and thermal control. In the course of preparing Orion for its objective, EaglePicher provided two main batteries along with two batteries to support the redundant electrical system. This is not the first successful battery provided by EaglePicher for Orion, NASA has already flown a test

mission, engineering flight test (EFT-I), utilizing the current iteration of EaglePicher batteries.

“Artemis I is the first in a series of missions to send humans to the moon and beyond,” said Ron Nowlin, EaglePicher’s senior vice president of aerospace. “EaglePicher provided the battery for the first U.S. satellite, Explorer I, batteries that safely returned Apollo 13 home, and batteries for hundreds of satellites. The Artemis mission will ensure that we continue to support key NASA missions well into the future.”

According to NASA, “The primary objectives of the Artemis I flight test are to demonstrate the Orion heat shield at lunar return re-entry conditions, demonstrate operations and facilities during all mission phases and retrieve the spacecraft after splashdown. In the course of completing these goals, the team aims to successfully demonstrate the SLS rocket’s capability, carry out the mission as planned and ensure a safe return prior to the first flight with crew on Artemis II.”

About EaglePicher

EaglePicher Technologies designs, develops and produces mission-critical power systems. EaglePicher is an industry leader in defense and aerospace grade batteries, battery management systems and energetic devices. For almost 100 years, the company has served critical defense, space and aviation battery applications. EaglePicher encompasses eight U.S. manufacturing including research and development sites and employs more than 850 team members.

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For more information about EaglePicher or the information contained in this release, please contact Heather Smriga at 417-629-6581 or via email heather.smriga@eaglepicher.com