L3Harris Successfully Tests New Power Plant System for Advanced Lightweight Torpedo



Release From Aerojet Rocketdyne

L3Harris Technologies has successfully completed testing of the first power plant system for the Stored Chemical Energy Propulsion System (SCEPS) that will power the U.S. Navy's MK 54 MOD 2 Increment 2 Advanced Lightweight Torpedo. The power plant system testing validated the functionality and performance of this key component and positions L3Harris to begin SCEPS design verification testing of the fully integrated system later this year.

L3Harris is on contract with the Navy to deliver proof of design for SCEPS propulsion for the MK 54 MOD 2 torpedo, which includes the power plant system and an integrated tail and torpedo afterbody assembly.

"The power plant system is at the very heart of the propulsion

system that will power the Navy's MK 54 MOD 2 torpedo," said Scott Alexander, President, Missile Solutions, Aerojet Rocketdyne, L3Harris. "We are pleased with the performance of the system during these tests and look forward to completing design verification testing of the entire afterbody later this year."

L3Harris' Center of Excellence for Undersea Propulsion Manufacturing, based in Orlando, Florida, includes the only SCEPS manufacturing capability within the U.S. industrial base, and plays a key role supporting the Navy's next generation torpedoes. In parallel with ongoing U.S. Navy contracts, the company has been independently funding fabrication and testing of prototype SCEPS components to further the innovative technology.

SCEPS uses a lithium boiler to generate heat used to create steam that drives a turbine to propel the torpedo to intercept its intended target. The innovative propulsion system will significantly improve U.S. Navy torpedo capabilities.