Sonobuoy Testing on Heavy Lift Helicopters Expands Capabilities

Hand-launched deployments of sonobuoys from a CH-53E Super Stallion showcases the aircraft’s flexibility and various payloads the heavy lift helicopter can take on. (U.S. Navy)
From Naval Air Systems Command, Sep 27, 2024

PATUXENT RIVER, Md. – Recent successful testing of hand-launched deployments of sonobuoys from a CH-53E Super Stallion have expanded the capabilities of the aircraft, providing increased flexibility for the U.S. Navy to support Anti-Submarine Warfare (ASW) in the joint environment. Similar testing will soon do the same for the CH-53K King Stallion.

The successful deployments of sonobuoys from a heavy lift helicopter showcases the aircraft’s flexibility and the changing payloads the aircraft will take on as the CH-53K replaces the CH-53E in the fleet.

“The H-53 is purpose-built to carry heavy loads, but that’s not the limit of our operational relevance,” said Col. Kate Fleeger, Program Manager, Heavy Lift Helicopters Program Office (PMA-261). “This test is just one example of the untapped capabilities of the H-53. Future payloads and the evolution of the H-53 in the battlespace are limited only by our imagination.”

PMA-261, Air Test and Evaluation Squadron Two One (HX-21) and Air Anti-Submarine Warfare Systems Program Office (PMA-264) at Naval Air Station Patuxent River, Maryland, conducted the sonobuoy tests, which were overseen by Adam Chesser, H-53 Lead Test Engineer, and performed over the Atlantic Ocean off the coast of Virginia.

“We evaluated the procedures and separation characteristics to ensure the sonobuoys would not strike the aircraft when launched,” said Chesser. “Clearing the heavy lift aircraft for sonobuoy deployment creates another level of redundancy for the Navy and provides more resources and flexibility to complete the mission.”

The successful tests were also accomplished with a significant savings in time and money, according to Joe Pham, Assistant Program Manager for Test and Evaluation at PMA-261.

“By exploring and using an alternative test range option to alleviate scheduling and funding constraints, we were able to execute the test on time and save cost to the program,” he said.

PMA-261 manages the cradle-to-grave procurement, development, support, fielding, and disposal of the entire family of H-53 heavy lift helicopters.

PMA-264 plays a critical role in developing, acquiring and sustaining airborne ASW systems and sensor requirements for the Fleet, the Maritime Patrol and Reconnaissance Aircraft program office, the H-60 Helicopter program office, the Persistent Maritime and the Unmanned Aerial Systems program office, and the Navy and Marine Corps Multi-Mission Tactical Unmanned Air Systems program office.