

Boeing, U.S. Navy Demonstrate Manned-Unmanned Teaming with Super Hornet Flight Tests

- A Block III F/A-18 Super Hornet test jet controls three unmanned aerial vehicles

- The software development, connectivity to the fighter and flight tests were completed in less than six months. Manned-unmanned teaming is a key capability for the U.S. Navy

ST. LOUIS, July 15, 2022 — Boeing [NYSE: BA] and the U.S. Navy have completed a series of manned-unmanned teaming (MUM-T) flight tests in which a Block III F/A-18 Super Hornet successfully demonstrated command and control of three unmanned aerial vehicles (UAVs).

Boeing system engineers connected Block III's adjunct processor, known as the Distributed Targeting Processor – Networked (DTP-N), with a third-party tablet to team with the UAVs. Boeing developed new software loads for the DTP-N specific to running the third-party tablet and transmitting commands. The software development, tablet connection to the fighter and all flight tests were completed in less than six months.

"Block III Super Hornet is executing on its guarantee of hardware – installed today – that is ready to receive the software of the future," said Ben LeGrand, Boeing director of Mission Systems. "Block III Super Hornet will integrate third-party systems and software with minimal modifications."

Boeing partnered with the F/A-18 & EA-18G Program Office (PMA-265), Air Test and Evaluation Squadrons (VX) 23 and 31, Naval Air Warfare Center-Weapons Division at China Lake, Calif., and a third-party vendor on the demonstration. During the test flights, F/A-18 pilots entered commands into the tablet, which were processed and transmitted through Block III's hardware. The UAVs executed all commands given by F/A-18 pilots during tests over a two-week period.

"This successful MUM-T demonstration represents a significant step toward the Navy's vision for Distributed Maritime Operations. It highlights the potential of unmanned concepts to expand and extend the Navy's reach," said Scott Dickson, Boeing's director for Multi-Domain Integration. "As part of a Joint All-Domain Command and Control network, teams of UAV conducting ISR missions led by the latest Super Hornets equipped with network-enabled data fusion and advanced capabilities would provide warfighters across the Joint Force with significant information advantage."

With the largest digital touch screen in any fighter cockpit, the F/A-18 is an industry leader in the development and installation of the hardware and processing power needed for future digital capabilities and growth. The adjunct processor running the demonstration adds significant processing power to the F/A-18's mission processing suite.

"Future fighter pilots will be the quarterback of the skies, orchestrating commands and controlling UAVs from the integrated Block III touch-screen cockpit," said Mark Sears, Boeing vice president and program manager of F/A-18, EA-18G programs. "Block III Super Hornet is the bridge to the future and is a risk reducer for the Navy that is delivering on teaming, networking and interoperability now."

For more information on F/A-18 Block III Super Hornet, visit <https://www.boeing.com/defense/fa-18-super-hornet/>.

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