Navy F/A-18 Fleet Gets Enhanced Target Tracking as IR Search and Track System Achieves IOC

The U.S. Navy has declared initial operational capability for the F/A-18 E/F Infrared Search and Track Block II system. (U.S. Navy photo by Katie Archibald)

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PATUXENT RIVER, Md. – The U.S. Navy declared initial operational capability (IOC) for the F/A-18 E/F Infrared Search and Track (IRST) Block II system in November 2024, providing the fleet with an enhanced capability to search, detect and track airborne targets at long range.

“Reaching IRST IOC is an important milestone in our overarching efforts to deliver advanced integrated warfighting

capability to the fleet," said Rear Adm. John Lemmon, Program Executive Officer for Tactical Aircraft Programs. "IRST provides data for our aircrew to improve reaction time and survivability while remaining unaffected by radio frequency jamming."

IRST increases aircrew situational awareness by supplementing air-to-air detection and track capabilities, and autonomously or in combination with other sensors, supports the guidance of beyond visual range missiles. It acts as a complementary sensor to the aircraft's AN/APG-79 fire control radar in a heavy electronic attack or radar-denied environment.

The system achieved IOC after completing Initial Operational Test and Evaluation with Air Test and Evaluation Squadron (VX) 9. The F/A-18 and EA-18G Program Office (PMA-265) partnered with military, civilian and contractor personnel from VX-31 and VX-23 to leverage a novel combination of operational and developmental test facilities and assets throughout the past year.

"IRST IOC reflects the hard work, dedication and resilience of a collaborative team of government and industry professionals in delivering this essential capability to the warfighters," said Capt. Michael Burks, PMA-265 Program Manager.

The Navy brought IRST to the fleet through an evolutionary acquisition approach across two phased blocks. In 2011, Block I integrated an existing IRST system onto the F/A-18 fuel tank and in 2019, the fleet operated the system as a part of an early deployment. Block II added an improved sensor, upgraded processor and additional software with a first deployment planned in 2025.

The full rate production decision is scheduled for spring 2025 to authorize the U.S. Navy to fully outfit its carrier-based F/A-18E/F Super Hornet squadrons with IRST Block II.

PMA-265 is responsible for supporting, sustaining, and

advancing the F/A-18A-D Hornet, F/A-18E/F Super Hornet and EA-18G Growler aircraft, providing naval aviators with capabilities that enable mission success.