



Acquisition Directorate

CHARACTERISTICS

- Commonality of command, control, communications, computers, cyber, intelligence, surveillance and reconnaissance components and capabilities across all Coast Guard fixed-wing surveillance aircraft
- Real-time tracking and Rescue 21 integration to enhance common operating picture and maritime domain awareness
- Automatic Dependent Surveillance – Broadcast technology to receive traffic and weather broadcasts and information about other aircraft, including identification, position and altitude
- Tactical screen replay to review a target's entire flight in seconds and track the target via its trajectory, even if the target stops broadcasting information or otherwise evades the sensors



MINOTAUR MISSION SYSTEM

The Coast Guard is outfitting its fixed-wing surveillance aircraft with Minotaur mission system architecture. Minotaur incorporates sensors, radar and command, control, communications, computers, cyber, intelligence, surveillance and reconnaissance equipment and enables aircrews to gather and process surveillance information that can be transmitted to other platforms and units during flight. The system, originally developed by the Navy, is government-owned and -operated across multiple Defense and Homeland Security department platforms.

The Coast Guard has worked with Naval Air Systems Command to develop Minotaur to meet Coast Guard mission requirements. Prototype installations for all aircraft began at Naval Air Station Patuxent River, Maryland.

A I R C R A F T S T A T U S



HC-130J Super Hercules long range surveillance aircraft: The first aircraft in the Coast Guard fleet outfitted with Minotaur, CGNR 2003, was delivered to the fleet in June 2017. Since then, Minotaur has been installed on 14 other HC-130Js. Air stations Elizabeth City, North Carolina, and Kodiak, Alaska, have their full complement of HC-130Js equipped with Minotaur, while Air Station Barbers Point, Hawaii, began its transition during the summer of 2021. The Coast Guard oversees the integration of Minotaur on the aircraft at L3Harris in Waco, Texas.



HC-144 Ocean Sentry medium range surveillance aircraft: HC-144 Minotaur production is underway at the Aviation Logistics Center in Elizabeth City, with the first Minotaur HC-144, CGNR 2307, delivered to the fleet in July 2017. Air Station Corpus Christi, Texas, has its full complement of HC-144Bs equipped with Minotaur. To date, 14 HC-144 aircraft have undergone Minotaur integration and received Ocean Sentry Refresh upgrades, which update the aircraft's avionics.



C-27J Spartan medium range surveillance aircraft: The service is also basing the C-27J missionization package on the Minotaur mission system. The first Spartan entered the missionization process at Naval Air Station Patuxent River in September 2017; prototype integration is complete and extensive prototype testing is underway. Installation on three additional aircraft is also progressing.

For updates on the **Minotaur Mission System**, visit the program's website at www.dcms.uscg.mil/acquisition