



Readying a fleet for missions in the global airspace.

Challenge: The U.S. Coast Guard (USCG) needs to address critical modernization issues for its HC-130H fleet through the year 2027, as its C-130Js come on line. Those issues include: internationally mandated communication, navigation, surveillance/air traffic management (CNS/ATM) requirements; mission performance; component obsolescence; and related mission availability concerns.

The USCG HC-130H aircraft do not meet CNS/ATM mandates, resulting in restrictions to optimum commercial airspace. Furthermore, the HC-130H aircraft face aging components (obsolescence) issues, which affect the fleet's mission performance and full mission capable rate.

Solution: Rockwell Collins provides the USCG a fully compliant CNS/ATM solution, while addressing critical obsolescence issues by leveraging our long history of avionics integrations on a variety of commercial and military aircraft.

With the Rockwell Collins avionics upgrade, the HC-130H will be able to transit civil and military airspace worldwide unrestricted. Our mission-proven flight management system, display system and autopilot are integrated with the only fielded CNO-certified RNP RNAV 0.3 solution.

We have upgraded more than 600 tanker/transport aircraft worldwide to meet CNS/ATM mandates, to include more than 125 C-130s. The Avionics 1 Upgrade system for the HC-130H leverages the technical advancement of these past avionics upgrade programs that are: installed, certified and in operational service today.

Our HC-130H avionics solution also addresses obsolescence issues. Avionics equipment nearing the end of its service life has higher replacement rates and longer repair times, resulting in higher maintenance costs and reduced reliability. Reliable systems result in increased combat capability and require fewer spare parts and support personnel.

The HC-130H avionics upgrade equipment provides additional mission capability, improved reliability and maintainability, increased aircraft ready for tasking, and supports future growth. Based on recent similar system upgrades on the USAF KC-135 and a number of international C-130 programs, Rockwell Collins anticipates that this avionics equipment upgrade will drastically improve the HC-130H's rates for avionics mean time between failure.

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Benefits:

- ▶ Seamless civil/military flight management system integration, resulting in access to worldwide civil and military airspace
- ▶ Provides access to GPS approaches, standard instrument departures and standard terminal arrival routes
- ▶ Reduces obsolescence issues, resulting in increased mission readiness
- ▶ Fully integrated civil and military communications suite
- ▶ Leverages the only fielded CNO-certified, FRD-compliant RNP RNAV 0.3 solution developed on the U.S. Navy P-3 CNS/ATM program
- ▶ Compliance with the modular open systems approach to combine mission-proven software and hardware for delivery of a fully compliant HC-130H cockpit
- ▶ Increased situational awareness through digmap, EFB and MultiScan™ WXR technology

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Rockwell Collins delivers innovative aviation and high-integrity solutions to commercial and government customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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