Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS)

MISSION
Provides global, real-time, multi-intelligence precision targeting information to Joint land, maritime, and air combat commanders across the full spectrum of military operations.

DESCRIPTION
Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) is the Army’s future force airborne intelligence collection, processing, and targeting support system. This manned multi-INT Airborne Intelligence Surveillance and Reconnaissance (AISR) system provides a persistent capability to detect, locate, classify/identify, and track surface targets in day/night, in near-all-weather conditions, with a high degree of timeliness and accuracy.

EMARSS aircraft will be located within Aerial Exploitation Battalions (AEB), which are assigned to the U.S. Army Intelligence and Security Command (INSCOM). The EMARSS system will consist of commercial derivative aircraft equipped with electro-optic/infrared (EO/IR) full-motion video (FMV) sensor, a COMINT collection system, an aerial precision geolocation system, line-of-site (LOS) tactical and beyond-line-of-site (LOS/BLOS) communications suites, two operator workstations, and self-protection suite integrated onto a Beechcraft King Air 350ER platform.

EMARSS will operate as a single platform in support of tactical missions. Mission altitude and flight tracks are chosen to optimize sensor data collection on the target area of interest while avoiding known threats. Flight tracks may be selected to strike a balance among the capabilities of multiple sensors, or to optimize collection from individual sensors based upon the daily collection tasking dictated by the tactical commander’s priority intelligence requirements (PIRs). EMARSS will provide efficient response to Combat Forces’ ISR tasking with centralized processing, exploitation, and dissemination (PED) of ISR while simultaneously transmitting critical FMV and intelligence products to engaged tactical forces.

SYSTEM INTERDEPENDENCIES
Distributed Common Ground System—Army (DCGS-A)

PROGRAM STATUS
• 1QFY10: Directed requirement approved by the Headquarters Department of the Army G-3/5/7
• 3QFY10: Release of the engineering and manufacturing development (EMD) request for proposal
• 4QFY10: EMD contract award

PROJECTED ACTIVITIES
• 2–3QFY11: Joint Requirements Oversight Council consideration of the CPD
• FY11: EMD phase
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FOREIGN MILITARY SALES
None

CONTRACTORS
Engineering Support:
CACI (Tinton Falls, NJ)
Booz Allen Hamilton (Eatontown, NJ)
Engineering/Program Management:
MITRE (Eatontown, NJ)
Aircraft Engineering:
CAS, Inc. (Huntsville, AL)
Science Applications International Corp. (SAIC) (Huntsville, AL)
Information Assurance:
Sensor Technologies (Red Bank, NJ)
Program Support:
CACI (Arlington, VA)
Software Engineering Support:
Lockheed Martin (Tinton Falls, NJ)