

Excalibur (M982)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

Provides improved fire support to the maneuver force commander through a precision-guided, extended-range, artillery projectile that increases lethality and reduces collateral damage.

DESCRIPTION

Excalibur (M982) is a 155mm, Global Positioning System (GPS)-guided, extended-range artillery projectile, in use as the Army's next-generation cannon artillery precision munition. The target, platform location, and GPS-specific data are entered into the projectile's mission computer through an Enhanced Portable Inductive Artillery Fuze Setter (EPIAFS).

Excalibur uses a jam-resistant internal GPS receiver to update the inertial navigation system, providing precision in-flight guidance and dramatically improving accuracy regardless of range. Excalibur has three fuze options (height-of-burst, point-detonating, and delay/penetration) and is employable in all weather conditions and terrain.

The program is using an incremental approach to provide a combat capability to the Soldier as quickly as possible, and to deliver advanced capabilities and lower costs as technology matures. The initial variant (Increment Ia-1) includes a unitary high-explosive warhead capable of penetrating urban structures and is also effective against personnel and light materiel targets. Increment Ia-2 provides increased range (up to 37.5 kilometers) and reliability improvements. The third variant (Increment Ib) will maintain performance and capabilities while reducing unit cost and increasing reliability.

Excalibur is designed for fielding to the Lightweight 155mm Howitzer (M777A2), the 155mm M109A6 self-propelled Howitzer (Paladin), and the Swedish Archer Howitzer. Excalibur is an international cooperative program with Sweden, which contributes resources toward the development in accordance with established cooperative development and production agreements.

SYSTEM INTERDEPENDENCIES

In this Publication

Advanced Field Artillery Tactical Data System (AFATDS)

Other Major Interdependencies

Enhanced Portable Inductive Artillery Fuze Setter (EPIAFS), Modular Artillery Charge System (MACS)

PROGRAM STATUS

- **Current:** Army and Marine Corps units in Afghanistan are Excalibur capable with Increments Ia-1 and Ia-2
- **1QFY12:** Initial Operational Capability for Increment Ia-2
- **1QFY12-4QFY12:** Continued deliveries of Increment Ia-2

PROJECTED ACTIVITIES

- **1QFY13:** Milestone C Low-rate initial production decision for Increment Ib
- **3QFY13:** Initial Operational Test & Evaluation for Increment Ib
- **4QFY14:** Increment Ib Initial Operational Capability

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support



Excalibur (M982)

FOREIGN MILITARY SALES

Australia, Canada, Sweden, United Kingdom

CONTRACTORS

Raytheon (Tucson, AZ)
 General Dynamics Ordnance and Tactical Systems (Healdsburg, CA)
 General Dynamics Ordnance and Tactical Systems (Niceville, FL)
 M/A-COM (Lowell, MA)
 L3 Communications (Cincinnati, OH)

