

Paladin/Field Artillery Ammunition Supply Vehicle (FAASV)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides the primary indirect fire support for modular Heavy Brigade Combat Teams and armored and mechanized infantry divisions, as well as an armored ammunition resupply vehicle in support of the Paladin.

DESCRIPTION

The M109A6 (Paladin) 155mm Howitzer is the most technologically advanced self-propelled cannon system in the Army. The field artillery ammunition supply vehicle (FAASV) provides an armored ammunition resupply vehicle in support of the Paladin.

The Paladin Integrated Management (PIM) program supports the fleet management strategy for current Paladins and FAASVs by providing a low-risk and affordable life-cycle solution that addresses obsolescence,

space, weight, and power concerns and ensures long-term sustainment of the fleet through 2050.

PIM uses state-of-the art components to improve the following:

- **Survivability:** “Shoot and scoot” tactics; improved ballistic and nuclear, biological, and chemical protection on both the Howitzer and FAASV.
- **Responsive fires:** Capable of firing within 45 seconds from a complete stop with on-board communications, remote travel lock, automated cannon slew capability, and pivot steer technology.
- **Improved Survivability:** New chassis structure and armoring provisions are built in.
- **Extended range:** 30 kilometers with high-explosive (HE), Rocket-Assisted Projectile (RAP) and Excalibur Projectiles using M203 or M232/M232A1 MACS propellant.
- **Increased commonality and reliability:** Through Bradley common powertrain, track, and suspension components.

- **Non-line-of-sight cannon technology:** Common electric elevation/traverse drives gun system and electric rammer are included.

Other PIM specifications include the following:

Crew: Paladin, four; FAASV, five

Combat loaded weight: Paladin, 37 tons; FAASV, 28 tons

Paladin on-board ammo: 39 rounds

FAASV on-board ammo: 95 rounds

Rates of fire: 4 rounds per minute for first 3 minutes maximum; 1 round per minute sustained

Maximum range: HE/RAP, 22/30 kilometers

Cruising range: Paladin, 180 miles; FAASV, 180 miles

Fire Support Network: Paladin Digital Fire Control System software supports Fire Support Network

SYSTEM INTERDEPENDENCIES

Advanced Field Artillery Tactical Data System (AFATDS), Artillery Ammunition, Excalibur (XM982), Force XXI Battle Command Brigade and Below (FBCB2), Precision Guidance Kit (PGK)

PROGRAM STATUS

- **FY10:** Produced five PIM Howitzer and two FAASV prototype vehicles

PROJECTED ACTIVITIES

- **1QFY11–2QFY12:** Build two PIM Howitzer and one FAASV prototype vehicles
- **2QFY11–1QFY13:** Developmental testing
- **3QFY13:** Milestone C

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Paladin/Field Artillery Ammunition Supply Vehicle (FAASV)

FOREIGN MILITARY SALES

None

CONTRACTORS

PIM Development:

BAE Systems (York, PA)

PIM SW Support/FATB/Matrix Support:

Armaments R&D Center
(Picatinny Arsenal, NJ)

Program Management Support:

Tank-Automotive and Armaments
Command (TACOM) (Warren, MI)

Testing:

Yuma Proving Ground (Yuma, AZ)
Aberdeen Test Center (Aberdeen Proving
Ground, MD)

