PM Crew Served Weapons
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Path Forward

Near Term
- Continue to increase capability by introducing product improvements including advanced enablers (i.e., optics), lightweight materials, barrels, and ammunition improvements to legacy weapons
- Develop Precision and Crew Served Small Arms Fire Control
- Continue efforts to inform new requirements

Mid Term
- Significantly increase Soldier lethality through Small Arms Fire Control and Optics
- Integrate technology advances from S&T programs and product improvements into current and next generation small arms systems
- Develop Increment II CROWS and enter production
- Divest legacy Precision Weapons and replace with a single, multi-caliber capability

Far Term:
- Apply emerging (“revolutionary”) technologies to the design/development of new types of weapons including command/self guided systems and directed energy solutions if soldier portable
M249 Then and Now

Then (1984)

- Improved Extractor
- Gas system redesign
- Hydraulic Buffer
- Improved trigger guard
- Improved Barrel heat shield
- 100 and 200 round soft packs
- Feed tray cover rail
- Improved bipod
- Forward Rails
- Short Barrel and BFA
- Collapsible Buttstock
- Lightweight charging handle
- Lightweight feed tray
- 3.25” shorter
- Improved capability with no weight increase

Now

25 Major Performance-related Engineering Changes Since 1984

- Improved Extractor
- Gas system redesign
- Hydraulic Buffer
- Improved trigger guard
- Improved Barrel heat shield
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Future Improvements:
Barrel – Life and Heat dissipation
Lighter parts –rails, top cover, bipod, buttstock
M240 Then and Now

Then (1994)

- Hydraulic Buffer
- Front Accessory Rails
- Combat Ammo Pack
- Improved sling
- Improved barrel bag
- Collapsible Buttstock
- Short Barrel
- Adjustable Bipod
- Titanium Receiver
  (5.8 lbs lighter and 4” shorter)

16 Major Performance-related Engineering Changes Since 1998

Now

Future Improvements:
Barrel – Life and Heat dissipation
**Warfighter Benefits:**
- Reduce the burden of the Soldier
- Allow the Soldier to bring more capability to the fight (ammo, equipment)
- Improve Soldier mobility
- 20% less than the current system (~16-17 lb savings)

**Future Improvements:**
- 4QFY17 Release RFP for test assets + production options
- 3QFY18 Award base contract for test assets
- 2QFY19 Type Classify Weapon
- 2QFY19 Award production contract
Mod Kit is the first significant upgrade since 1968 and has been fielded Army wide

Completed fielding in FY08
- TWO-PIECE COCKING LEVER
- FIRING PIN SEAR AND FIRING PIN
- ADJUSTABLE SECONDARY DRIVE LEVER
- DOVETAIL FOR MOUNTING ADJUSTABLE SIGHT BRACKET

Future Improvements:
MK19 GMG, Mod 5
- NEW BARREL
- NEW VERTICAL CAM
- NEW ROUND POSITIONING BLOCK
- NEW COCKING CAM AND LEVER
- NEW MECHANICAL SIGHT
**CROWS Then and Now**

**CROWS (Then)**
- Low Profile
- Fixed Site
- Handheld Control Grip

**CROWS (Now)**
- Low Profile
- Tech Refresh

**Future – RFP for Increment II (3QFY22)**
- Increased on-the-move accuracy
- Sensor improvements
- Reconfigure appended trainer as an embedded trainer
- Disable function to render system unusable if over-run
- Addition of smoke grenade launcher
- Reduce weapon mounting time
- Improved rounds counter accuracy
- Digital video recorder
- Escalation of Force kit
- Elevation/Depression improvements
- Ballistic Protection improvements
• **Description:**
  - Multi-caliber, bolt-action sniper rifle effective against personnel targets at extreme ranges
  - New anti-personnel & anti-materiel ammunition
  - System will replace the M2010 & M107

• **Requirement:**
  - PSR CPD HQDA G3 Approved 28-DEC-15
  - Revised Reqm’ts To Be Staffed 3QFY16

• **Desired Capabilities:**
  - Precision fire on man-sized targets out to 1500m
  - Enhanced/increased adjustability with common ergonomic features
  - Modular, multi-barrel design based on METT-TC

Addresses long and medium-range needs of the modern battlefield in one package
Mounted Machine Gun Optic (MMO)

- **Description:**
  - Provides both close combat and long-range engagement capabilities in one optic
  - Improves lethality and effectiveness of mounted machine guns in all operational environments

- **Requirement:**
  - **Capability Development Document (CPD) in staffing**
    - MMO Increment I represents the effort to field a COTS Non-Developmental Item multi-capable sight for vehicle-mounted machine guns

- **Acquisition approach:**
  - Full and Open Competition to award contract for a COTS Non-Developmental Item
  - Initial Production of the MMO is planned for 1QFY18 with a First Unit Equipped (FUE) of 4QFY18

Crew Served: M240B, M2, MK19
BOI: 63,265
Industry Day #1: Planned for June 2016
Requirement approval: 1QFY17
Fire Control, Crew Served & Precision

• **Description:**
  - Integrated fire control optic consisting of direct view optic, ballistic module, atmospheric sensors, range finder, and in-scope display overlay

• **Requirement:**
  - **Draft Capability Development Document (CDD) in process**
    - Squad, Precision, and Crew Served as one CDD with separate Engineering and Manufacturing Development efforts
    - Squad, Precision, and Crew Served as three separate Capability Production Documents CPDs with Production and Deployment efforts

• **Acquisition approach:**
  - Full and Open Competition to award contract for a development effort, downselect to single vendor for production

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Precision: PSR and CSASS
Crew Served: M240L, M249
Industry Day #2, 2QFY17
Requirement approval, 2QFY17