PM Crew Served Weapons
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2 June 2015
“Provide premier Soldier weapons systems enabling battlefield dominance”
PM CSW Path Forward

• Near Term:
  • Continue to increase capability by introducing product improvements including advanced enablers (i.e., optics), lightweight materials, and ammunition improvements to legacy weapons
  • Continue efforts to inform new requirements
  • Support configuration study to establish better requirements reducing user error budget (Fire Control, Optics, Stabilized Mounts etc)
  • Field commercially available Fire Control Technologies

• Mid Term:
  • Integrate technology advances from S&T programs into current and next generation small arms systems
  • Track and leverage S&T projects for solutions that meet Volume Effects gaps
  • Fire Control Program of Record

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

Then (1984)

Extractor improved
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

Quick release swivel
Sling mounting kit

25 Major Performance-related Engineering Changes Since 1984
M240 Then and Now

Then (1994)

M240B

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

Now

M240L

16 Major Performance-related Engineering Changes Since 1998
M2 Then and Now

Then (1933)

• Quick Change Barrel with integral handle
• Fixed Headspace and Timing
• Flash Hider

Quick Change Barrel Upgrade
1st Major Significant Engineering Change Since 1933

Now

M2A1
MK19 Then and Now

Then (1968)

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

Now

FUTURE: MK19 GMG, Mod 5
- NEW MK19 BARREL
- NEW VERTICAL CAM
- NEW ROUND POSITIONING BLOCK
- NEW COCKING CAM AND LEVER
- NEW MECHANICAL SIGHT
Tripods Then and Now

- Integral T&E mechanism allows for one-handed operation
- No Adaptors required

M122A1

M3 Tripod

M192
6.5 lbs lighter

M205
16 lbs lighter

Strength, Stability, and Reduced Weight
Precision Weapons Then and Now

- M24 SWS
- M107 50cal
- M110 SASS

CSASS (Replaces M110 SASS)

CSASS is sustained/maintained as the Sniper Support Rifle (Primary Spotter capability)

M24 Upgrade (HQDA Directed Requirement)

M2010 300mag

PSR

7.62 300 338

Multi-Caliber Sniper Weapon System, enhanced accuracy, enhanced optics, increased ergonomics, increased sustainability, reduced signature, to act as a dual purpose (anti-personnel and anti-materiel) capability replacing the M2010 and M107 when developed through increment 4 of requirement

* JOINT Interest program * Army/SOCOM
CROWS

Low Profile & INC II

Fixed Site

Containerized Weapon System

Handheld Control Grip
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

Precision: PSR and CSASS
Crew Served: M2 and MK19, M240
Industry Day #1, Aug 2015
Requirement approval, 4QFY16