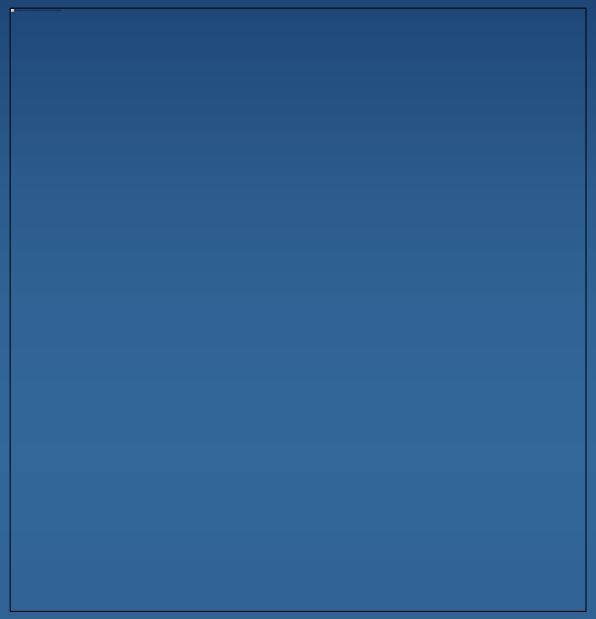
Munitions Executive Summit

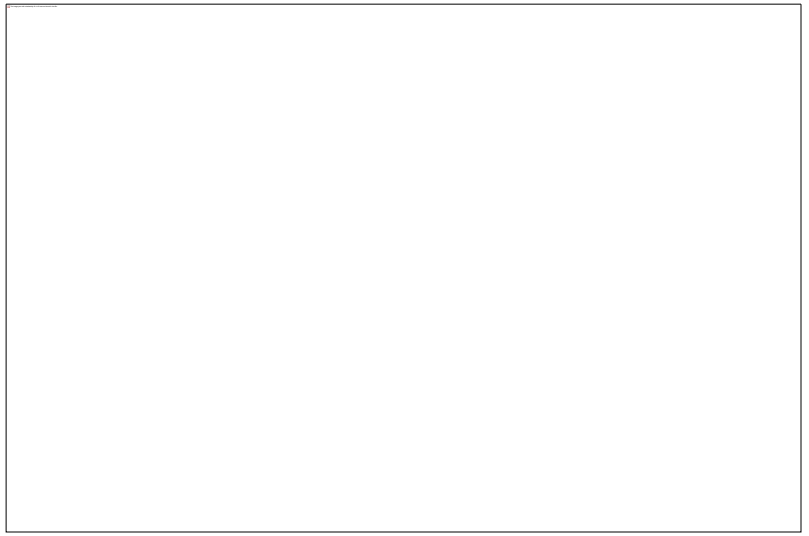


4 Feb 2011

Presented by: COL Scott Turner
Project Manager for
Combat Ammunition Systems
973 724-2003, john.scott.turner@us.army.mil

FY10 Munitions Delivered

- Mortar
  - ✓ 60mm – 234,786
  - ✓ 81mm – 369,423
  - ✓ 120mm – 59,641
- Artillery
  - ✓ Artillery Projectiles – 382,000
  - ✓ Artillery Fuzes – 21,453
  - ✓ Energetics
    - 60/81/120mm Mortar Ignition Cartridges - 1,470,988
    - 60/81/120mm Mortar Propelling Charges - 2,779,616
    - 155mm MACS M232A1 – 1,378,867
- Precision XM982 – 368



Approx $551 Million Ammo Delivered

FY11 Munitions
Planned Deliveries

- Mortar Rounds
  - ✓ 60mm – 614,556
  - ✓ 81mm – 354,109
  - ✓ 120mm – 290,20
- Artillery Rounds
  - ✓ 75mm - 76,550
  - ✓ 105mm – 177,233
  - ✓ 155mm - 190,646

- Precision
  - ✓ XM982 Excalibur – 263 1a-1 rds and 845 1a-2 rds
  - ✓ XM395 APMI - 2873

Approx $550M in Ammo to be Delivered

155mm Excalibur XM982
Army/USMC Round Counts

	Army OIF	Army - OEF	Army - OEF - PACOM	USMC - OIF	USMC- OEF	Total
Delivered	76	462	9	13	466	1026
Fired	73	65	9	10	141	298
Unserviceable	3	3	0	3	11	20
Balance (On-Hand)	0	394	0	0	314	708

Average Usage Rate ~30/month

as of 14 Jan 11

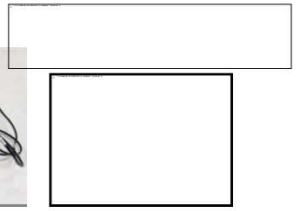
XM395 Accelerated Precision Mortar Initiative (APMI)

Requirement:

- Required Capability:
  - ✓ GPS Guidance
  - ✓ Accuracy: 10m CEP (T); 5m (O)
  - ✓ Maximum Range: 6.5km or greater
  - ✓ Reliability: .90 by UMR
  - ✓ Compatibility: All U.S. Army 120mm Mortar Systems

XM701 Fuse Setter (with LHMBC)

XM395 120mm HE Cartridge



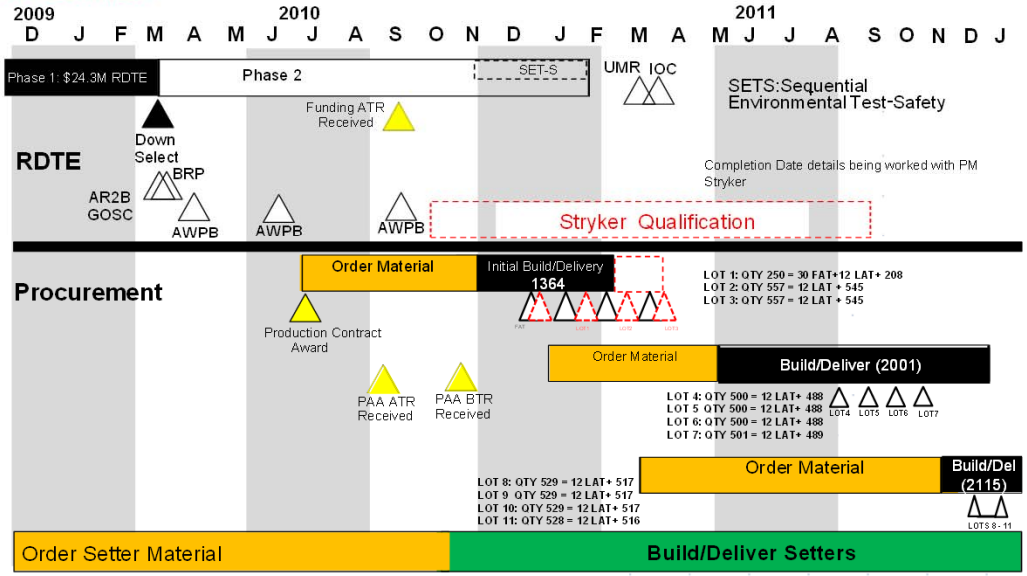
MFCS: Mortar Fire Control System – Dismounted (M150/M151)

- Operational Need Statement (ONS #09-7722) for GPS guided 120mm mortar cartridge: HQDA G-3/5/7 validated on 8 Jan 2009; HQDA G3/5/7 Directed Requirement (16 Oct 2009)
- Revised ONS Quantity: 5,480 rounds; 156 Fuse Setters, validated by AR2B GOSC, 25 Mar 10
- Operational Assessment in theater will determine support for Program of Record (PoR) through Capabilities Development for Rapid Transition (CDRT) process

Description

APMI is a GPS-guided 120mm mortar munition that will provide maneuver battalion commanders with an organic precision indirect fire capability to neutralize enemy forces in complex terrain difficult to engage with low-angle fire.

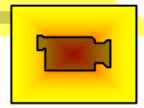
Schedule:



Current Status/Schedule:

- **CEP: 6.2**
- **Reliability: 94%**
- **Completed Government Qualification Testing and Production First Article Test: 29 Jan 2011**
- **Urgent Material Release: 1 Mar 2011**
- **Initial Operational Capability: 31 Mar 2011**

Operational Evaluation will be Conducted from April to September and may Establish APMI POR



XM1156 Precision Guidance Kit (PGK)

Requirement:

Key Performance Parameters

Net Ready:

- Incorporated into Digital Fire Support Systems: AFATDS, M109A6 (Paladin), M777A2 (LW155), EPIAFS

Reliability:

- 0.92 (T), 0.97 (O)

Accuracy:

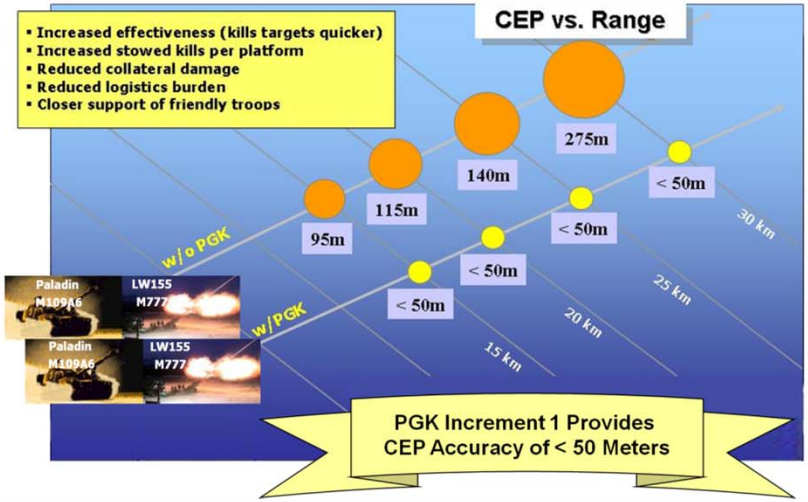
- ≤50m CEP (T); ≤30m CEP (O)

Attributes

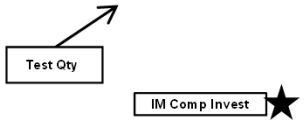
Munition / Platform Types:

- 155mm High Explosive Projectiles: M107, M795, M549/A1
- M109A6 (Paladin), M777A2 (LW155)

Description

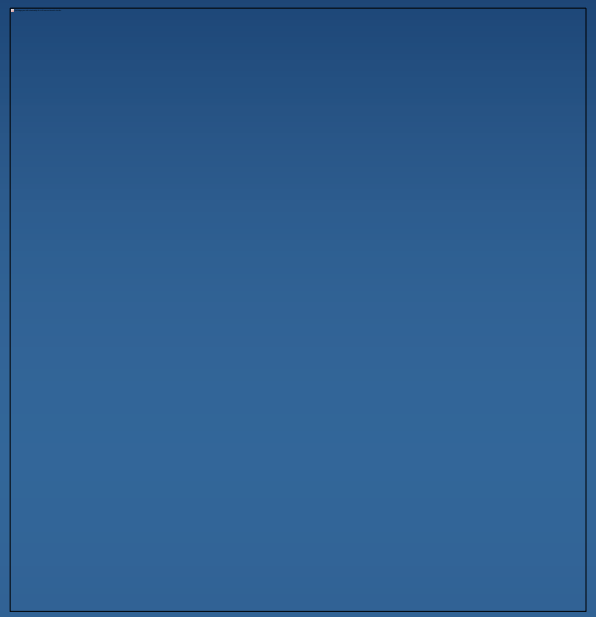


Schedule:



Issues/ Status:

- **PGK Exceeding Accuracy KPP Threshold of 50 meter CEP**
- **PGK program re-baseline to meet 92% Reliability KPP by IOC (Based on Aug 2010 Reliability Test Results)**
- ✓ (Aug-Jan 2011) Failure Analysis and Course of action Recommendation
- ✓ (21 Jan 2011) ASARC Approval of go-forward plan ADM
- ✓ (Jan 2011) FFP - UCA Contract Mod with ATK
- **Key Milestones**
- (1QFY13) MS C



FY11/12 Planned Acquisitions

- FY11
  - ✓ M14 Cartridge Case, IDIQ Multiple Award
  - ✓ PA55 and PA71A Fiber Containers and PA112 Fiber Assembly, SBSA, IDIQ Multiple Award
  - ✓ HE LAP Artillery 105mm M927, PGU, M549A1, IDIQ Multiple Award
  - ✓ 60mm/81mm/120mm Propellant Charges, IDIQ Multiple Award
  - ✓ MACS LAP M231/M232A1 IDIQ Multiple Award
  - ✓ MACS M31A2 Propellant, IDIQ Single Award
  - ✓ MACS Combustible Cases (New Scope)
  - ✓ FMU 153/B, IDIQ Single Award
- FY12
  - ✓ 120mm HE, SMK, and FRPC MPTS
  - ✓ 120mm ILLUM M930 and M983
  - ✓ 155mm (M795) Metal Parts
  - ✓ 105mm XM350 Propellant Charge LAP, XM60 Propellant for 105mm, XM133 Primer (Support M1E1)
  - ✓ MOFA M782
  - ✓ 105mm M1 Wood Boxes
  - ✓ 155mm PA 179 Excalibur Packaging
  - ✓ 105mm M1064/M314A3 New System Buy
  - ✓ 105mm HE M1IM Project LAP