

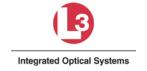
Individual Semi-Automatic Airburst System (ISAAS)

- PM Soldier Weapons / ATK -

26 MAY 2011







TEAM

XM25 Overview



- Overview
 - System Overview
 - Operational Update
 - Next Steps
 - Program Status



- Forward Operational Assessment
 - FOA Highlights
 - NET
- FOA User Feedback
 - Proposed Employment
 - Capabilities Assessment
- Summary
- Questions/Comments









System Overview



- The XM25, Individual Semi-Automatic Airburst System (ISAAS), is a Counter Defilade Target Engagement (CDTE) weapon.
- Delivers a 25mm programmable high explosive airburst (HEAB) round to explode above or adjacent to a target significantly increasing Soldier survivability to defeat defilade targets out to approximately 600 meters.



The XM25 includes an integrated, multifunctional, all environment, full-solution, day/night, target acquisition/fire control system.







System Overview



- •The technology provides the Soldier a leap-ahead capability to defeat defilade targets while significantly reducing collateral damage without the use of indirect fire or close air support.
- The ISAAS has been identified by the U.S. Army Maneuver Center of Excellence (MCOE) Joint Capabilities Integration and Development System (JCIDS) analysis as the number one materiel approach to mitigate the Counter Defilade Target Engagement (CDTE) gap (accurate and lethal engagement of defilade targets at the squad level).







XM25 Operation





A. Target behind 2 foot thick concrete wall

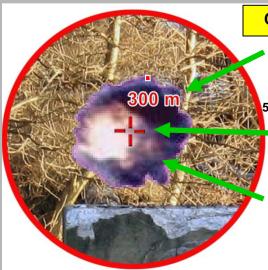
1. Place LRF Aimpoint on wall in front of Target and Lase



B. Target seeks cover behind wall

2. TA/FC determines range to wall is 299 meters

3. TA/FC displays the adjusted Aimpoint to the correct location on DVO



C. Target Destroyed

- 4. User increments 1 meter to compensate for wall thickness. Round will now explode at 300 m
- User raises XM25's barrel, which moves Adjusted Aimpoint up.
 Explosion will occur where the Adjusted Aimpoint is pointing.
 User squeezes trigger.
- 6. Explosion of 25mm Air Burst round is past the 2' thick wall & over the enemy's head

That's All it Takes!









Operational Update



- Army is currently conducting a Forward Operational Assessment (FOA) of the XM25 System in Afghanistan.
- Test units arrived in theater Nov '10. PM Soldier Weapons personnel conducted New Equipment Training (NET) with select units and monitored use / performance during the assessment period.
- The weapons were carried on patrols, and at various combat outposts in areas that experienced high levels of enemy activity.
- The weapons were assessed in both mountainous and flat terrain.
- Soldier feedback is allowing the Army to make engineering refinements to the system and will assist in making future decisions regarding tactics, basis of issue, and other improvements in the weapon system.









Program Status



- Began 30 month EMD effort on 28 Apr 2011
 - Design will be finalized by month 9 and select facilitization and manufacture will begin
- 36 FOA systems delivered beginning in month 24
- ATK will begin testing 10 systems approx month 8
 - Will conduct 6 months of testing on systems
- Systems will go through a variety of Tests
 - Environmental, life cycling, human factors, safety, etc.
 Similar to DT testing the Gov't plans to perform









FOA Highlights



- Trained 18 total XM25 Gunners
- Had 9 total combat engagements, 55 HEAB rounds
 - All engagements resulted in expedited enemy disengagement
- Expended 620 TP rounds during NET
- Expended 120 HEAB rounds in NET and Demos
- Assessed in 3 different types of PLTs: Infantry, Infantry Heavy Weapons, and CAV Scout











New Equipment Training



Day 1

- Capability Class
- Disassembly and Reassembly Class
- Day Familiarization Fire
- 4 TP, 4 HEAB
- Night Familiarization
 Fire 4 HEAB

Day 2

- Qualification Fire 40TP
- Fire command execution
- 1 mag unsupported
- SPOR(T)S
- CoC Validation

CoC observed the NET and determine if the gunner was ready to take the XM 25 on a combat mission









XM 25 Proposed Employment



Weapon Quantity Initial Feedback

- 1 per Squad or 2-3 per PLT, based on the type of PLT
- Squad level SDM carried

Basic Load Feedback

- The optimal basic load became 36 rounds; 9 mags – one in the weapon, 8 carried
- Currently using 28 rounds; 7 mags – one in the weapon, 6 carried



Having the extra firepower of a semiautomatic "grenade launcher" – yeah, I would go with that for every section if possible. – 1LT Featherman









XM 25 Capability Assessment



• "I believe any time you are in an engagement on level terrain or anywhere where you have defilade for the enemy to [hide], it is 100% effective." – 1LT Farazdaghi



- I think this weapon system is amazing. The scope, the optic itself is completely groundbreaking." SFC Shriver
- "The XM 25 is the whole package weapon system. It definitely provides a lot of capabilities that we have to pull out multiple pieces of equipment to do." CPT Gold
- •"It is a lot harder for a 203 gunner to put a round in a specific grape row. So the airburst capability is definitely of use here." CPT Gold
- "We have taken it on all patrols since contact. We have taken it on every single one and will continue to do so."—1LT Featherman









Summary



- XM25 has performed well in both mountainous and flat terrain
 at both long and short ranges.
- There is a definite need for this capability in theater right now.
- The NET effectively prepared soldiers and leaders to successfully employ the weapon system in combat.
- The PM FOA was able to gather data on ergonomic changes, proposed doctrine and an overall assessment of the capability, which will be used to make the system better and more user friendly for soldiers on today's battlefield.

"Our XM 25 gunners understood the capabilities employment – how to employ the weapon system. The leadership knew exactly how it was employed and what its capabilities were." – SFC Shriver







Questions?





"There have been multiple, multiple engagements where the enemy knows, 'Hey, I'll hide behind this giant boulder. No matter what you hit me with you can't get through this boulder.' With the XM25 you can hit anybody within range, behind anything." – SFC Shriver









US Army

MAJ Christopher Conley
APM Individual Weapons
PM Soldier Weapons
Picatinny Arsenal, NJ 07806
(w) 973-724-8108
(e) christopher.f.conley@us.army.mil

ATK

Mike Stucki ATK Advanced Weapons Business Development

- (w) 763.744.5213
- (m) 612.276.2131
- e. Michael.Stucki@ATK.COM



