

Soldier Requirements Division

CUI



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Lethality Branch – Firepower 28 February 2024





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Define Concepts







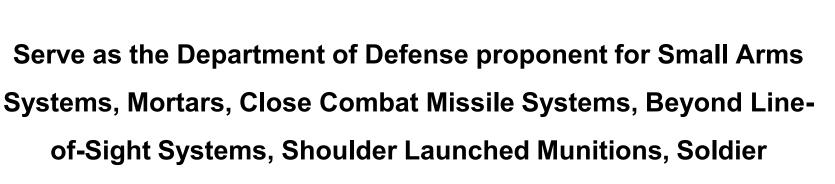


Develop Requirements

Integrate Capabilities



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Handheld Munitions and advocate for scalable effects

Soldier Perspective for Future Capabilities





Research Solutions

Define Concepts

Soldier Portfolio Programs

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Summary of Firepower Section Desired Capabilities out to 2040



Infantry Battalion Mortar System and Family of Munitions:

- Enhanced 81mm Cannon and Munitions
 - Extended Range ≥ 120mm Mortar System
 - Lethality \geq 120mm HE (M934 A1)
- Increase Mobility & Survivability
 - Faster Emplacement & Displacement time
 - Conventional first-round accuracy (Non-seating baseplate)
 - Mortar Stowage Kit (MSK) that supports E81mm system that is modular with Tactical Vehicle
- Other Potential Opportunities
 - Suite of Mortar Rounds

Research Solutions

Precision and Extended Range Munitions

Define Concepts

• Feasibility of an Enhanced 120mm Cannon and Munitions

Develop Requirements

Integrate Capabilities



Summary of Firepower Section Desired Capabilities out to 2040



Night Vision Capabilities:

- Power solution that meet operational needs time for ENVG-B's
 - Current power supply (4ea. Lithium Batteries L91) last ~ 4 hours in most taxing mode
 - New Army Requirement for a Night Vision Device Next (NVD-N)
 - I2 Dual Tube
 - High (Figure of Merit) *FOM
 - White phosphorus
 - Improve PVS-14 performance
 - High FOM
 - White phosphorus

*Figure of merit (FoM) is a number which gives a quantitative measure of a night vision device's effectiveness and clarity.





Summary of Firepower Section Desired Capabilities out to 2040



Small Arms Targeting Strategy

- Current State: Night/ Limited Visibility targeting & pointing capabilities
 - Weapon Mounted FWS-I with ENVG-B provides passive targeting capability
 - AN/PEQ-15 with I2 Night Vision Device provides active targeting and pointing capability

Desired Capabilities

- Small Light weight, low-cost solution that provides PEQ15 like capabilities
- IR Laser/ illuminator designed to match ENVG-B capabilities

Develop Requirements

Integrate Capabilities

Future targeting and pointing capability

• Covert (ie. SWIR Laser and sensor)

Define Concepts

• Passive (ie. Virtual)

Research Solutions



Summary of Firepower Section Desired Capabilities (cont.) out to 2040



Soldier Munitions

- Bi-spectral / Multi-spectral obscuration
 - Short duration (~30 Sec)
 - Long duration (~90 Sec)
- Improved Tactical Obscuration Hand Grenade (Provides screening/density and duration ≥ AN/M8 HC) that's Non-Toxic and Environmentally Friendly



Summary of Firepower Section Desired Capabilities (cont.) out to 2040



Close Combat Missile Systems (Javelin/CLU)–Multi-target

- Lightweight, man-packable, stabilized platform (Tripod) that supports employment of the CLU with or without Javelin missile
- Light Weight Command Launch Unit (CLU) Modularity Ancillary devices that support the following:
 - Far Target Location
 - Ability to populate friendly and enemy locations on the network
 - Leverage Artificial Intelligence to increase ability to Detect, Recognize, and Identify.





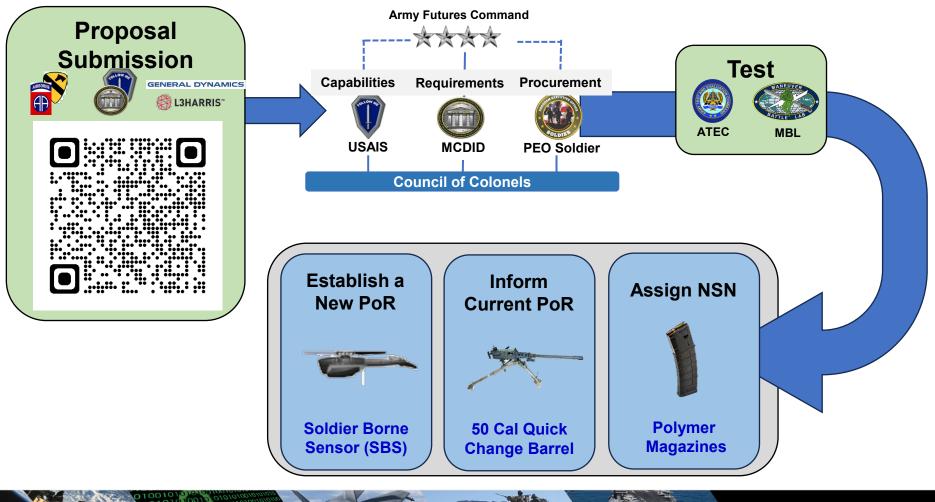
Research Solutions

Define Concepts



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SEP is a congressionally mandated program established by the FY1990 National Defense Authorization Act (NDAA) to <u>buy</u> COTS / GOTS technology, allow Soldiers to <u>try</u> it in real world scenarios, and <u>decide</u> on applicability for the broader force.



Develop Requirements

integrate Capabilities



Lethality Branch – Firepower Points of Contact



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Questions?

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