



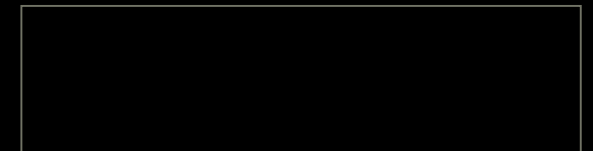
U.S. ARMY COMBAT CAPABILITIES DEVELOPMENT COMMAND – ARMAMENTS CENTER

Next Generation Squad Weapons Technology
NDIA Armaments Systems Forum
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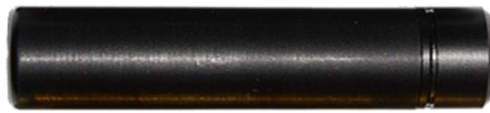




NEXT GENERATION SQUAD WEAPONS TECHNOLOGY



Next Gen
Squad Weapons Technology



Polymer Cased Telescoped Cartridge



6.8mm Very Low Drag (VLD) Projectile



Cased Telescope 6.8 mm Automatic Rifle

Purpose:

- Provide critical weapon-integrated technologies for Next Generation Squad Weapon - Automatic Rifle (NGSW – M249 SAW replacement), leveraging prior efforts and to inform requirements

Key Features:

- Mid-Caliber (6.8mm) VLD Projectile
- Optimized Cartridge – Weight/Size vs. Lethality
- Integrated Muzzle Device - Recoil and Signature Management
- Power/Data Transfer Rail

Milestones:

- FY19 – Transition of Technical Data Package (TDP) and Design Reference Packet to PM Soldier Weapons
- FY20 – Demonstration of Small Arms Fire Control Integration

Partners:

- Industry (Textron/AAI, ATI Flowform)
- CCDC ARL, CCDC DAC



NGSWT PROTOTYPE SYSTEM CHARACTERISTICS



• Characteristics

- 6.8 mm cased telescoped cartridge
- Vertically rising chamber operating group
- Length: 35" buttstock collapsed, including muzzle device
- Weight: 11.9 lbs (with sling, bipod, muzzle device)
- Magazine Feed: 20 round capacity
- Cyclic rate: 600 rpm
- Integrated muzzle device to reduce recoil, sound, and flash
- Integrated Picatinny Smart-Rail compliant powered data rail on four sides of upper receiver
- High-capacity Li-ion battery
- M-Lok mounting system





SUMMARY



- **Meets or exceeds most performance requirements in DRAFT Capabilities Development Document (CDD)**
- **Technology completed in 15 months**
- **Technology transitioned to PM Soldier Weapons in MAY 2019**
- **Plans are to continue to evaluate technology with limited user assessment in 4QFY19**

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LIVE FIRE DEMONSTRATION CCDC-AC – G2 RANGE DEMO – APRIL 15, 2019



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LIVE FIRE SEMI-AUTO LONG RANGE ARMY RESEARCH LAB M-RANGE – MAY 2, 2019

