Target Acquisition
Fire Control Technologies for
Next Generation Systems

PM Soldier Weapons / US Army
Picatinny Arsenal NJ
Doug Cohen & Paul Koerner
05 Jun 2019

NDIA Armament Conference / Small Arms Division Themes
PM SW NGSW-FC Overview

- Integrated Technologies to reduce soldier load
- Increase ability to accurately engage targets
- Direct View Optic for Degraded/Powerless Operation
- Magnification
  - Variable Magnification to 6x or greater to identify and engage targets beyond 600 meters
- Disturbed Reticle
  - Ballistics calculated in near real-time using sensor suite information
- Sensor Suite:
  - Temperature
  - Pressure
  - Range Finder
- Close Quarters Battle (CQB)
  - True 1X magnification for two eye open shooting

Modernizing Fire Control Capabilities for the Dismounted Soldier
Overarching Schedule/Roadmap

Legend
- PON: Prototype Opportunity Notice
- BST: Bid Sample Test
- PT: Prototype Test
- FC: Fire Control
- NGSW: Next Generation Squad Weapons
- KT: Contract
- Soldier Touch Points

NGSW-R
NGSW-AR

FY2019
MAY/JUN
NCGS-FC
FC PON Release

FY2020
NOV
BST
Proposal Due
Bid Samples Due

APR
Vendor Prototyping

DEC
Test Hardware

NGSW PT#2
JAN
Production

MAR
Production Proposal Due

JUN
Production KT Award

FY2021
AUG
Iterative Prototyping

FY2022
NOV
Distribution Statement A
GROWTH TECHNOLOGIES

Increasing Capability with Iterative Prototyping

- Automatic target recognition
- Target tracking
- Facial recognition
- Optical augmentation
- Aim Augmentation
- Wind sensing
- Soldier Load Optimization
- Advanced Network Lethality
- Ruggedization Improvements
- Augmented Reality
- Improved Power Efficiency
- Integrated Night Sensing

S&T Integration

- DEVCOM S&T Projects (SCOPE, AFCT, LSS)
- PMSW Internal 6.4 RDTE Projects
- SBIRS & MANTECH Efforts

Technologies apply to Fire Controls across the PEO Soldier Portfolio along with partner agencies