







TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Presented by

Mr. Joel M. Goldman Chief, JSSAP Office





Agenda



- What is JSSAP?
- JSSAST Mission and Structure
- JSSAST Focus Areas
- Recently Completed Programs
- FY12-15 Program Description
- What's Next?

















Focus on the

Warfighter

Always!

What is JSSAP?



A Chartered Joint-Centric Activity

Providing Small Arms Technology

Requirements Harmonization

For All the Armed Services

\$15-17 M **Annual**

Budget

by ASA (ALT) Hon Claude Bolton 31 Aug 04

Charter Updated and Approved















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JSSAST Mission and Structure

Chartered in 1978

OSD AT&L

Charter Updated 2004

ASA AT&L, AAE

AMC - RDECOM

ASA(ALT) R&T

Funding

AMC-RDECOM

ARDEC

Meets

Semiannually

JSSAP

Office

Joint Service Small Arms Synchronization Team (JSSAST)

Chairman COL M. Zybura (ARDEC-ESIC) Army: Mr. D. Libersat (USA MCOE) Mr. C. Clark III (MCDC) Marines: Air Force: Col J. Probst (HQ AFSFC) Navy: CDR W. Daly (OPNAV) Coast Guard: CAPT E. Giese (HQ USCG) SOCOM: COL J. Smith (PEO SOF Warrior)

Associates:

Army PMSW: COL S. Armstrong (PEO Soldier) JNLWD: Mr. K. Swenson (JNLWD)

Army PM MAS Mr. T. Coradeschi (PEO Ammunition) Army PM SSL Mr. Wayde Thomka (PEO Soldier) ONR Mr. D. Simons (Firepower)

ARL Mr. M. Zoltoski (Army Research Lab) **NVESD** Mr. D. Randall (Associate Director)

Mr. B. Reese (NAVSEA) Navy PMSA

Joint Service Small Arms

National Small Arms Center including Services and National Labs

Requirements Integration

Joint Service Small Arms **Program** (JSSAP) **Mission**

- Intensive management of the DoD small arms tech base
- Harmonization of requirements and testing
- Transition to Program Manager's for **System Development and Demonstration**
- Long range plans and strategies
- Influence of International Small Arms **Activities**





















JSSAST Focus Areas



Capabilities Documentation Development/Harmonization

- Service Requirements
- Joint Small Arms Modernization ICD Staffing
- Joint Capabilities Roadmap/Master Plan

Current Demonstration Activities

- Small Arms Weapon and Fire Control
- Small Arms Grenade Munition

Current Research Thrusts

- Advanced Small Unit Small Arms Technology
- Materials and Process Technology

Lightweight Small Arms Technologies (LSAT)

- Military Utility Assessment II Special Forces
- Forward/CONUS Operational Assessment
- Assessment of Potential for Requirement Development or Transition of Technologies





Recently Completed Programs



TRL 7 **Achieved** MUA Complete

Lightweight Small Arms Technology



Plastic Case Telescoped LMG



TRL 5 **Achieved**

Plastic Case Telescoped Carbine

TRL 4/5 Achieved





Laser Steering



Target Tracking



Near IR



Advanced Fire Control Technology

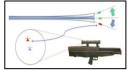
Thermal Tech



Microsight



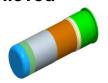
Energy Harvesting



Barrel Deflection Measurement

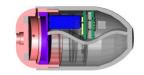
TRL 4/5 **Achieved**

Advanced Lethal Armament Technology

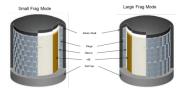


Dynamically Expanding Warhead





Course-Correcting Projectile



Selectable Fragment Sizes





Enhanced Warhead Configurations





FY 12-15 Program Description



Advanced Small Unit Small Arms Technology (ASUSAT)

-Improve range overmatch capability against like-sized threat elements.

Small Arms Material Process Technology (SAM&PT) Research Program

-Enhance the operability and maintainability of small arms weapons.

Small Arms Grenade Munitions (SAGM) Integration and Evaluation Demonstration Program

-Improve effectiveness of 40mm Low Velocity Grenade.

Small Arms Weapons and Fire Control Integration (SAW&FC) Demonstration Program
-Improve capability to determine range, track moving targets, and increase probability of hit.

Lightweight Small Arms Technologies (LSAT) Program

-Provide critical weight reduction elements for the warfighter, maintaining current lethality and improving maintenance and training





What's Next?



- **▲ NSAC Meeting June 2012**
- Conduct Military Utility Assessment II
- Complete Staffing of Joint Small Arms ICD
- Next JSSAST Meeting 7-8 November 2012
- ▲ Incoming JSSAST Chairman: COL Tom Cook, USA, ARDEC

















JSSAST Panel Members



▲ USA: MAJ Aron Hauquitz

△ USN: Mr. Charles (Chuck) Zeller

▲ USAF: Msgt Patrick Flores

USMC: Mr. Sal Fanelli

▲ USCG: LCDR Kenneth (Ty) Nagie

▲ US SOCOM: Maj Frances (Skip) Barth

▲ JNLWD: Mr. Jacob (Jake) Johnson













