

UPDATE ON NATIONAL SMALL ARMS CENTER

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AGENDA

- Intent
- Progress
 - Requirements
 - Awards
 - Membership
 - Communication
- Issues
 - International Structure
 - Funding



NSAC/NSATC - INTENT

- A Virtual Center Headquartered at US Army ARDEC
- A Consortium of Industry/Academia/National Labs (NSATC) operating under:
 - A Consortium Member Agreement (CMA) and
 - An Other Transactions Agreement (OTA)
- Agenda Driven by the Joint Service Small Arms Master Plan
 - Built Upon the Transformation Strategies of the Services
 - Supported by Joint Small Arms Capability Based Analysis
- Principally to Give More Visibility to the Need for Greater Resources for Small Arms Technology



Conceptual Basis

- NSATC is a Self Governed Organization
- Organized Under the Aegis of the National Cooperative Research and Production Act (NCRPA) of 1993 as Amended
- Has Limited Civil Anti-trust Liabilities if Registered with the Federal Trade Commission and Department of Justice
- NSATC Registered on 4/7/04
- OTA For Prototyping – Authorized by Section 845 of the 1994 National Defense Appropriations Bill, as Amended



How It Differs

- Other Transaction Agreement (OTA) Driven Process
 - Requires USG to Stipulate Desired **End Results**
 - Allows Consortium Members to Propose the How's, When's and Cost's
 - More Open Negotiations
 - More Innovative Solutions
 - Non-traditional Industries/Academe Influences

What It Is!

- *Industry/Academia*
- *Centric*
- *Innovation*
- *Center*



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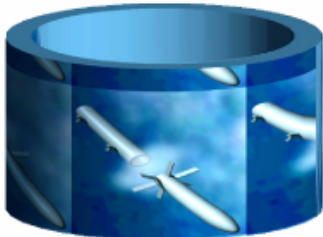


REQUIREMENTS

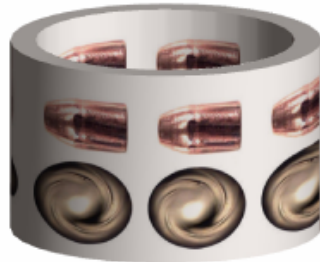
- First white paper cycle completed in August 2005
- Impacted Joint Small Arms Capability Analysis
- Aided in redefining nine affinity groupings

THRUST AREAS

Affinity Groupings



Smart Munitions



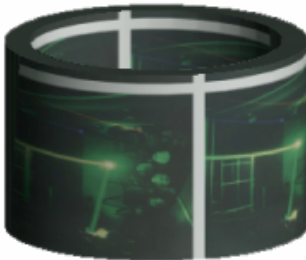
Materials & Processes



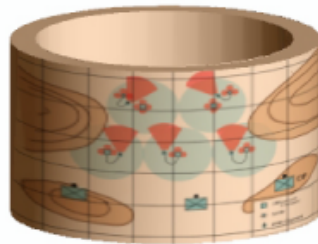
New Concepts and Applications



Lethality & Utility



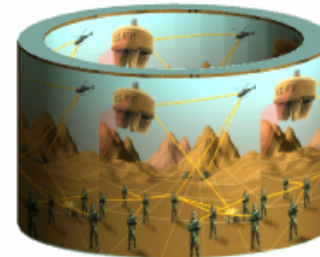
Technical Fire Control



Modeling & Analysis



Warheads & Energetics



Tactical Fire Control



Weapons Mechanisms



REQUIREMENTS

- Request for Business Development Proposal Initiative Launched
 - Twenty-six proposals received and evaluated by a multi-service/agency team
 - Defined 10 new avenues of investigation under the JSACA
 - Referred to Business Development Committee for Marketing
 - NSAC marketing to in-house PM organizations



Awards

- Seven Awards in FY05 Totaling \$3.3M
- Seven Awards in Process for FY06
- Potential for a minimum of 3 additional awards this fiscal year
- Loss of Charter Grants-Officer
- Negotiations phase remains the wild card of this OTA based process



FY 05/06 AWARDS

Lighter and Smaller Crew Served Weapons	Barrett Firearms	\$766,350
Recoil Mitigation & Energy Conversion	Cape Aerospace	\$261,000
5.56mm Polymer Cartridge Case Development	Mississippi Polymer Technologies	\$250,000
5.56mm Polymer Cartridge Case Development	Polytech Ammunition Co	\$750,016
40mm Low Recoil Weapon System	FN Herstal	\$443,000
25mm Lightweight Composite Barrell Development	MER Corp	\$130,000



FY 05/06 AWARDS

Lubeless Weapon Coatings Development	Integran Corp	\$235,000
Lubeless Weapon Coatings Development	ATFI	\$235,000
Lightweight 7.62mm Ammunition Study	Fleximation	\$71,488
Thinwall Cartridge Case for 7.62mm Ammunition Effort	SNC TEC	\$784,794
Lightweight 7.62mm Ammunition Study	Frontier Performance Polymers	\$87,154
Lightweight 7.62mm Ammunition Study	Mississippi Polymer Technologies	\$79,958



Membership

- FY05 Membership (9 months) increased from 27 to 52 members
- FY06 Membership increased by 10 to date
- University-outreach program
 - Local based schools
 - Targets of opportunity
 - Extended Reach
 - “Walk-ups”



Membership Demographics

- Weapons Systems
Developers/Producers
- Ammunition & Energetics Producers
- Materials and Coatings Specialists
- Research Institutes & Universities
- Manufacturing Specialists
- Engineering Services Firms
- Electro-optical specialists



Membership Process

- Applications available on-line at NSAC website
 - Application
 - Consortium Member Agreement
 - Background Information
- Contact Executive Director or Research Program Director directly



Points Of Contact

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Communications

- Still in teething pain stage
- Webpage has proven to be a major plus
 - "How To" articles
 - JSACA Developments
 - USMC IAR Advanced Draft of SOO
- Webpage to be augmented by Collaboration Software Suite
 - Present Issues to Membership
 - Brainstorm in the Virtual Environment
 - Unexpected uses



National Small Arms Center Website



The screenshot shows the NSAC website interface. At the top, there are logos for the Department of Defense (DOD), Industry, Academia, and Government, along with the JSSAP logo. The main header reads 'National Small Arms Center' and 'NSAC'. Below this, there is a navigation bar with links for 'Member Login', 'FAQ', 'Site Map', 'Survey', and 'Contact Us'. The left sidebar contains a menu with items such as 'NSAC Homepage', 'Business Calendar', 'Membership Information', 'JSSAP Jottings', 'Education Subcommittee', 'Members Only' (with sub-items like 'Member Profiles', 'In-Process Technical Programs', etc.), and 'What's New'. The main content area features a large 'NATIONAL Small Arms Center' title. Below this, a welcome message reads: 'Welcome to the National Small Arms Center (NSAC) Website!'. To the right of the text is a photo of Frank P. Puzyci. The text continues: 'The NSAC and its partnering organization, the National Small Arms Technology Consortium (NSATC) are focused on one prime objective - producing innovation in small arms comprising personal defense, individual, crew-served and mission-unique weapons, munitions, fire-control and ancillary devices. If you already are a member, you recognize the unique opportunity you enjoy to influence the Joint Services emerging requirements processes through our annual White Paper solicitation event as well as the subsequent Request for Proposal Process (RPP) wherein you can competitively compete for technology base funding opportunities. If you currently are not a member, let me wholeheartedly extend an invitation to join this forward-looking initiative. Forms and information are attached at the appropriate tabs of this website. If you have detailed questions, contact our Executive Director, Ms. Barbara Byrnes at 703-212-8030 or myself at 973-724-6081. The Center is a virtual center spanning Government and Industry across the Nation and around the world. Foreign corporations and universities are encouraged to join the Consortium subject to U.S. Government approval and compliance with export control laws. Several of the current members are from foreign nations. Consortium members collaborate with the Government to identify and select the best technologies, obtain financial resources and execute best value projects.'

<http://www.pica.army.mil/nsac/>



ISSUES

■ ITARS

- Created difficulties on extant contracts
- Will impede information sharing possibilities in the future
- Seeking some form of Omnibus Relief from State Department or other innovative approaches toward a “One size fits all” alternative



ISSUES

■ Funding

- Our reputation creates OPM opportunities
- JSSAP making headway in expending Tech Base Steady State Funding Increases
- Marketing RBDP proposals within and external to ARDEC to augment small-arms unique research
- We are gaining traction and developing the compelling story

SUMMARY

- Active programs in lubeless weapon technology, lightweight cartridge cases and recoil mitigation in progress
- New start effort – USMC IAR Program
- Membership continues to expand
- Funding augmentation being aggressively pursued



"UNCLE SAM WANTS YOU!"
"TO INNOVATE!"



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