

**NATIONAL SMALL ARMS CENTER**

PRESENTED TO

**NDIA 2002 INTERNATIONAL INFANTRY AND  
JOINT SERVICES SMALL ARMS SECTION SYMPOSIUM**

ON

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BY

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## **OUTLINE**

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- **BACKGROUND**
- **SCOPE**
- **METHOD OF OPERATION**
- **KEY AREAS OF INTEREST**
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## **PURPOSE**

- **PRESENT OVERVIEW OF THE ARMY'S NATIONAL SMALL ARMS CENTER**
- **CENTER WILL SERVE:**
  - **US ARMY, NAVY, AIR FORCE AND MARINE CORPS**
  - **ACADEMIA**
  - **INDUSTRY**
- **WORLD CLASS CENTER ENGAGED IN TECHNOLOGY RESEARCH AND DEVELOPMENT, TECHNOLOGY TANSFER, AND AS AN INFORMATION RESOURCE**

## **BACKGROUND**

- **US SMALL ARMS TECHNOLOGY AND INDUSTRIAL BASE ARE THREATENED BY:**
  - **CHANGING NATIONAL PRIORTIES**
  - **DOWNSIZING AND RESTRUCTURING OF INDUSTRY AND GOVERNMENT**
  - **LOST VOICE IN DEFENSE BUDGET AND OTHER COUNSELS**
- **A STRONG PARTNERSHIP WITH ACADEMIA AND INDUSTRY WILL:**
  - **ADVANCE SMALL ARMS TECHNOLOGY NEEDS**
  - **HELP RETAIN THE US TECHNOLOGY BASE AND, IN TURN, SPUR INDUSTRY PRODUCTION**
  - **PROJECT A UNIFIED VOICE FOR SMALL ARMS COMMUNITY**
- **CENTERS ARE AN INTEGRAL PART OF THE ARMY'S TECHNOLOGY AND INDUSTRIAL BASE STRATEGY**

## **RATIONALE AND CONCEPT FOR CENTER**

- **CONDUCTED STUDY OVER PAST SIX MONTHS**
- **LOOKED AT HISTORY OF SMALL ARMS TECHNOLOGY AND INDUSTRIAL BASE**
  - **DECLINING FUNDING AND RECOGNITION**
  - **NEED FOR A TURN-AROUND MECHANISM**
- **STUDIED NEARLY 50 ON-GOING CENTERS**
- **RECOMMENDED A SUSTAINING CENTER**
  - **LOCATED AT TACOM - ARDEC**
  - **INDUSTRY AND ACADEMIA CONSORTIUM**
  - **LONG TERM CONTRACTUAL ARRANGEMENT**

## **NATIONAL SMALL ARMS CENTER SCOPE OF ACTIVITIES**

- **LIFE CYCLE SCIENCE AND ENGINEERING**
- **PROGRAMMATIC AREAS**
  - **RESEARCH**
  - **TECHNOLOGY DEVELOPMENT**
  - **PRODUCT AND PROCESS DEVELOPMENT**
  - **PRODUCT AND PROCESS IMPROVEMENTS**
  - **PRODUCTION ENGINEERING**
  - **MAINTENANCE ENGINEERING**
  - **TEST AND DEMILITARIZATION**

## **NATIONAL SMALL ARMS CENTER SCOPE OF ACTIVITIES (CONT'D)**

- **CORE END ITEMS**

- **HAND GUNS, SHOULDER FIRED WEAPONS, GRENADE LAUNCHERS, MACHINE GUNS, GRENADE MACHINE GUNS, AUTOMATIC CANNON AND OTHER GROUND WEAPONS / DEVICES (SUCH AS LIGHT WEIGHT ACOUSTIC AND DIRECTED ENERGY WEAPONS)**
- **SMALL ARMS AMMUNITION OF ALL TYPES**
- **HAND, GUN LAUNCHED AND ROCKET GRENADES**
- **FIRE CONTROL, EMBEDDED COMPUTERS AND POWER SUPPLIES**
- **GUN MOUNTS**
- **FUZING**

## **NATIONAL SMALL ARMS CENTER CAPABILITIES**

- **CRITICAL MASS OF SCIENTISTS, ENGINEERS AND SUPPORTING PERSONNEL**
- **FACILITIES FOR SIMULATION AND MODELING; RAPID PROTOTYPING; ENERGETICS FORMULATION; LOAD, ASSEMBLE AND PACK OF AMMUNITION; DYNAMIC AND FIXED RANGES; EXPERIMENTAL RANGES FOR WARHEADS, HIGH PERFORMANCE COMPUTER ACCESS AND CHEMICAL, PHYSICAL AND METALLURGICAL LABORATORY ANALYSES**
- **REAL-TIME NETWORK TO GOVERNMENT AND MEMBER TEST RANGES**
- **DATA REPOSITORY AND RETRIEVAL RESOURCES**
- **CONSULTATION AND ADVISORY SERVICES**
- **EDUCATION AND TRAINING CAPABILITIES**

## **NATIONAL SMALL ARMS CENTER METHOD OF OPERATION**

- **MAINTENANCE AND OPERATION FO THE CENTER WILL BE THE RESPONSIBILITY OF ARDEC**
- **RESEARCH AND DEVELOPMENT WILL BE CONDUCTED BY A CONSORTIUM OF INDUSTRY AND ACADEMIA AS THE RESEARCH ARM OF THE CENTER**
- **THE GOVERNMENT WILL CONTRACT WITH THE CONSORTIUM USING A SECTION 845 “OTHER TRANSACTION AGREEMENT(OTA)” (10 USC 2371)**
  - **EXEMPT FROM MOST ACQUISITION LAWS AND REGULATIONS**
  - **PERMITS COMERCIAL RELATIONSHIP**
  - **ALLOWS CO-FUNDING AND PAYMENT OF PROFIT**
  - **CONTROLLED BY A GRANTS OFFICER**

## **NATIONAL SMALL ARMS CENTER METHOD OF OPERATION (CONT'D)**

- **CONSORTIUM MEMBERS WILL BE BOUND BY A CONSORTIUM MANAGEMENT AGREEMENT OR SIMILAR DOCUMENT**
  - **DEVELOPED BY THE MEMBERS**
- **OPEN RELATIONSHIP BETWEEN GOVERNMENT AND CONSORTIUM**
  - **GOVERNMENT WILL PROVIDE OBJECTIVES AND REQUIREMENTS AT LEAST ANNUALLY**
  - **CONSORTIUM MEMBERS WILL OFFER TECHNICAL SOLUTIONS THROUGH TECHNICAL COMMITTEES**
  - **GOVERNMENT WILL DEVELOP ROAD MAPS, MASTER PLAN, BUIDGET AND ANNUAL PLAN OF EXECUTION BASED IN PART OR WHOLE ON THE CONSORTIUM INPUT**
- **AN ANNUAL BAA WILL ANNOUNCE TECHNICAL PROGRAMS TO BE ACQUIRED AND SOURCE SELECTION CRITERIA**

## **NATIONAL SMALL ARMS CENTER METHOD OF OPERATION (CONT'D)**

- **PROGRAM EXECUTION WILL BE ACCOMPLISHED BY CUSTOMARY PROGRAM / PROJECT MANAGEMENT METHODS**
  - **CUSTOMERS OUTSIDE ARDEC MAY MANAGE THEIR RESPECTIVE PROGRAMS AND PROJECTS**
- **THE CENTER WILL HAVE A FULL TIME TECHNICAL DIRECTOR**
- **THE CONSORTIUM WILL HAVE A FULL OR PART TIME ADMINISTRATIVE DIRECTOR**
- **THE OTA AGREEMENT IS EXPECTED TO RUN FOR 5 YEARS AND BE RENEWABLE FOR AN ADDITIONAL 5 YEAR TERM**

## **PAYOFF FOR INDUSTRY AND ACADEMIA**

- **BETTER UNDERSTANDING OF GOVERNMENT NEEDS AND PLANS**
- **OPPORTUNITY TO INFLUENCE CONTENT AND PRIORITIES OF ARMY'S RESEARCH AND DEVELOPMENT PROGRAM**
- **COLLABORATION AMONG MEMBERS AND GOVERNMENT**
- **COMPETITION FOR RESEARCH FUNDING LIMITED TO CENTER MEMBERS**
- **SIGNIFICANT INCREASES IN FUNDING FOR RESEARCH AND DEVELOPMENT AND FOLLOW-ON PRODUCTION**
- **TECHNOLOGIES TO REACH PRODUCTION MORE QUICKLY**

## **PAYOFF FOR ARMY**

- **STRONG, LONG TERM RELATIONSHIP WITH INDUSTRY AND ACADEMIA**
- **CRITICAL MASS OF SCIENTISTS AND ENGINEERS**
- **ACCELERATED RESEARCH AND DEVELOPMENT**
- **POTENTIAL FOR COST SHARING ON SPECIFIC PROGRAMS**
  - **GOVERNMENT / INDUSTRY**
- **SUPERIOR PROGRAMS AND PRODUCTS FOR WARFIGHTERS AND HOMELAND DEFENSE**
- **GROWTH IN TECHNOLOGY AND INDUSTRIAL BASE**

## **NATIONAL SMALL ARMS CENTER MILESTONES**

<b><u>TASK</u></b>	<b><u>EST COMP DATE</u></b>
• <b>APPROVAL OF NATIONAL SMALL ARMS CENTER CONCEPT</b>	<b>31 MAY 2002</b>
• <b>PUBLISH BAA ANNOUNCING INDUSTRY DAY AND REQUESTING SHOW OF INTEREST</b>	<b>14 JUN 2002</b>
• <b>INDUSTRY DAY</b>	<b>16 JUL 2002</b>
• <b>INDUSTRY DAY II (IF NECESSARY) TO RESOLVE ISSUES, OBTAIN MEMBERSHIP PLEDGES</b>	<b>14 AUG 2002</b>
• <b>DRAFT AND COORDINATE OTHER TRANSACTION AGREEMENT AND CONSORTIUM MEMBER AGREEMENT</b>	<b>15 NOV 2002</b>

**NATIONAL SMALL ARMS CENTER  
MILESTONES (CONT'D)**

<u><b>TASK</b></u>	<u><b>EST COMPL DATE</b></u>
• <b>SUBMIT DRAFT OTHER TRANSACTION AND CONSORTIUM MEMBER AGREEMENTS TO REGULATORS (FTC &amp; DOJ)</b>	<b>22 NOV 2002</b>
• <b>COMPLETE COORDINATION AND REGULATORY REVIEWS OF AGREEMENTS</b>	<b>3 DEC 2002</b>
• <b>INDUSTRY AND ACADEMIA SIGN CONSORTIUM MEMBER AGREEMENT, CENTER IS OPENED</b>	<b>8 JAN 2003</b>
• <b>OTHER TRANSACTION AGREEMENT SIGNED WHEN FUNDS ARE RECEIVED</b>	<b>TBD</b>