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### Partnership Vision JPM P / Pine Bluff Arsenal (PBA)

<table>
<thead>
<tr>
<th>Start Up</th>
<th>Ramp Up</th>
<th>Portfolio RDT&amp;E/Modernization/Cost Reduction</th>
<th>National Asset</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Filters</strong></td>
<td><strong>Textile Construction</strong></td>
<td><strong>Indirect or Personnel Protective Equipment</strong></td>
<td><strong>Textile Construction</strong></td>
</tr>
<tr>
<td><strong>Textile Construction</strong></td>
<td><strong>HAZARD MITIGATION</strong></td>
<td><strong>HAZARD MITIGATION EQUIPMENT</strong></td>
<td><strong>Protective Filters</strong></td>
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<tr>
<td><strong>HAZARD MITIGATION</strong></td>
<td><strong>PROTECTIVE MASKS</strong></td>
<td><strong>Collective Protection Equipment</strong></td>
<td><strong>Climate Control</strong></td>
</tr>
<tr>
<td><strong>PROTECTIVE MASKS</strong></td>
<td><strong>COLLECTIVE PROTECTION</strong></td>
<td><strong>Collective Protection Equipment</strong></td>
<td><strong>Packaging</strong></td>
</tr>
<tr>
<td>MPU-6 (JSAM Apache)</td>
<td>Chemical &amp; Biological Protective Shelter</td>
<td>Collective Prot Depl Med Syst, Joint Exp Collective Protection</td>
<td>National Asset</td>
</tr>
<tr>
<td><strong>COLLECTIVE PROTECTION</strong></td>
<td><strong>ENHANCED USE LEASE?</strong></td>
<td><strong>ENHANCED USE LEASE?</strong></td>
<td><strong>“GO TO” SOURCE</strong></td>
</tr>
<tr>
<td><strong>ENHANCED USE LEASE?</strong></td>
<td><strong>FACILITIES INVESTMENT?</strong></td>
<td><strong>FACILITIES INVESTMENT?</strong></td>
<td><strong>Kitting</strong></td>
</tr>
<tr>
<td>Now +2 Years</td>
<td>3 to 8 Years</td>
<td>8+ Years</td>
<td>Licensed &amp; Other Low Density MFG</td>
</tr>
<tr>
<td><strong>FACILITIES INVESTMENT?</strong></td>
<td><strong>12+ YEARS</strong></td>
<td><strong>12+ YEARS</strong></td>
<td><strong>12+ YEARS</strong></td>
</tr>
</tbody>
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COMMUNICATING JPM PROTECTION / PINE BLUFF ARSENAL (PBA) VISION WITH INDUSTRY

1. Brief JPM Protection/PBA Vision at the Chemical/Biological Defense Acquisition Initiatives Forum

2. Brief JPM Protection/PBA Vision at the National Defense Industrial Association Advanced Planning Briefing to Industry

3. Complete discussions with Source America and PBA on textile efforts

4. Brief each specific PBA initiative at the corresponding industry day (i.e., JECP will brief contract clause encouraging partnership with PBA at their industry day)
JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)

The JECP program will design, develop, integrate, test, procure and field a Family of Systems (FoS) that provides a collective protection capability to the Joint Expeditionary Forces.

The JECP FoS is comprised of:

- Tent Kits (TKs) – Collective Protection capability added to selected fielded tents
- Structure Kits (SKs) - Renders collective protection to an enclosed space of opportunity
- Standalone Shelter System - Collectively Protected shelter system that includes the generator and environmental control

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JECP OPPORTUNITY: COMPETITIVELY-AWARDED JE-RDAP ORDER [FOUR (4)-YEAR BASE WITH FIVE (5) ONE-YEAR OPTIONS POSSIBLE] FOR JECP PHASE 1 PRODUCTION AND PHASE 2 DEVELOPMENT

**CONTRACT TYPE:** Cost Reimbursement, Fixed Price Incentive Fee (FPIF) and/or FFP CLINs

**RANGE/VALUE:** TBD

**CONTRACTING CONTACT:** ACC-APG Edgewood, Brian Mazen, brian.mazen.civ@mail.mil

**SOLICITATION #:** JE-RDAP Order

**SOLICITATION RELEASE DATE:** Order Release Date 3QFY17

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UNIFORM INTEGRATED PROTECTION ENSEMBLE INCREMENT 2 (UIPE INCR 2)

UIPE Incr 2 will provide a percutaneous protection Family of Systems that enables the warfighter to operate in a contaminated environment with no (or minimal) degradation in performance.

UIPE Incr 2 seeks to address protection from operationally relevant traditional, non-traditional, and advanced chemical, biological, radiological and nuclear/Toxic Industrial Material threats likely to be encountered during joint force operations.

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UIPE INCR 2 OPPORTUNITY: DURING RDT&E, UIPE INCR 2 WILL SEEK INFORMATIONAL WHITE PAPERS, PROTOTYPES, AND TEST ARTICLES OF POSSIBLE SOLUTIONS VIA THE CONSORTIUM FOR ENERGY, ENVIRONMENT AND DEMILITARIZATION (CEED). COMPANIES MUST BE A MEMBER OF CEED TO PARTICIPATE

CONTRACT TYPE: Other Transaction Authority

RANGE/VALUE: TBD

CONTRACTING CONTACT: ACC-New Jersey/Picatinny E. Blancuzzi, kimberly.e.blancuzzi.civ@mail.mil; (973) 724-2200

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: First White Paper award scheduled for 4QFY17
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JOINT BIOLOGICAL AGENT DECONTAMINATION SYSTEM (JBADS)

JBADS will provide the capability to conduct biological decontamination of the interior and exterior of a C-130J aircraft and potentially other vehicle platforms using a bio-thermal decontamination process.

JBADS will provide:
- Equipment contamination mitigation (simultaneous interior and exterior decontamination)
- 6-log+ reduction of biological spores, viruses and vegetative bacteria
- Ability for platform Roll-In / Roll-Out of Aircraft Enclosure
- 10-day/aircraft cycle time (96 hours at temp/RH)
- Modular Design (scalability)
- Packaged to be Worldwide transportable /deployable
- The Joint Force Commander with the ability to maintain required operational tempo to airlift into and out of theater
- Government-ownership, Contractor-operation and support

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JBADS OPPORTUNITY: COMPETITIVELY AWARDED JE-RDAP ORDER FOR JBADS DEVELOPMENT, PROCUREMENT, AND CONTRACTOR OPERATIONS AND SUPPORT

**CONTRACT TYPE:** Cost Reimbursement, Fixed Price Incentive Fee (FPIF) and/or Firm Fixed Price (FFP) CLINs

**RANGE/VALUE:** TBD

**CONTRACTING CONTACT:** ACC-APG Natick, Kevin Parker, kevin.j.parker3.civ@mail.mil

**SOLICITATION #:** JE-RDAP Order

**SOLICITATION RELEASE DATE:** Order Release Date 3QFY17

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JOINT SERVICE AIRCREW MASK FOR ROTARY WING (JSAM RW)

To provide in-flight donning and doffing capability in rotary wing aircraft; JSAM RW will replace the M45 aircrew mask, the MBU-19/P aircrew mask, and the chemical and biological (CB) Respiratory System (A/P22P-14(v) series) aircrew masks

- JSAM RW is currently in Full Rate Production (FRP) for the U.S. Air Force and U.S. Army
- Navy/Marine Corps Operational Testing (OT) is ongoing with FRP anticipated 1QFY18
JSAM RW OPPORTUNITY: COMPETITIVELY AWARDED JE-CLASS ORDER [ONE-YEAR BASE WITH TWO (2) ONE-YEAR OPTIONS POSSIBLE] FOR JSAM RW NEW EQUIPMENT TRAINING AND FIELDING OPERATIONS

**CONTRACT TYPE:** Cost Plus Fixed Fee (CPFF)

**RANGE/VALUE:** TBD

**CONTRACTING CONTACT:** ACC-APG Edgewood, Alex Schupp, alex.m.schupp.civ@mail.mil

**SOLICITATION #:** JE-CLaSS Order

**SOLICITATION RELEASE DATE:** Order Release Date 4QFY17

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JSAM RW OPPORTUNITY: COMPETITIVELY AWARDED
JE-RDAP ORDER FOR JSAM RW PRODUCTION

**CONTRACT TYPE:** Fixed Price Incentive (FPI)

**RANGE/VALUE:** TBD

**CONTRACTING CONTACT:** ACC-APG Edgewood, Brian Mazen, brian.mazen.civ@mail.mil

**SOLICITATION #:** JE-RDAP Order

**SOLICITATION RELEASE DATE:** Order Release Date 4QFY17

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PROGRAM POINTS OF CONTACT

- Mrs. Ruzena Rok, Deputy, JPM-P
  ruzena.m.rok@usmc.mil
- Mr. Gerald Jones, Chief of Staff, JPM-P
  gerald.jones@usmc.mil
- Dr. Charles (Chuck) Bass, Jr., P.E., Branch Chief, Protection and Hazard Mitigation, DTRA
  charles.bass@dtra.mil
- Mr. LeRoy Garey, Product Manager, UIPE Incr 2
  donald.l.garey4.civ@mail.mil
- LtCol William Holl, Product Manager, JBADS
  william.d.holl.mil@mail.mil
- Mr. Don Kilduff, Product Manager, JSAM RW
  donald.j.kilduff.civ@mail.mil
- Mr. Mike Boruch, Product Manager, JECP
  michael.Boruch@navy.mil

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Defense Threat Reduction Agency (DTRA)
Current R&D and Future Directions

Dr. Charles Bass
Defense Threat Reduction Agency

Given at:

APBI
Aberdeen Proving Ground, MD
2 February 2017
Science & Technology Needs

Core Capability Area

- Respiratory & Ocular Protection
- Percutaneous Protection

Items of Interest

- Integrated respirators (w/ ballistic protection, communication and optics)
- Novel low-burden design
- Full spectrum compliant (29CFR1910)
- Novel sorbents, barriers & methods for filtration
- Catalytic sorbents integrated into yarns, fiber-mats and membranes
- Barrier materials (NFPA 1991/1994 compliant) with good comfort characteristics (e.g. stretch, drape, hand)
- Durable repellent, anti-microbial, self-detoxifying fabric treatments
- Highly efficient personal cooling
- Closures (light, ergonomic and effective)
UNCLASSIFIED

Science & Technology Needs

Core Capability Area

• Expeditionary Collective Protection
• Equipment Contamination Mitigation
• Personnel Contamination Mitigation

Items of Interest

• Cost-efficient particulate filtration
• Broad-spectrum extended life filters
• Residual life indicators
• Coatings for redefined agent resistance specification
• Pre- and post-contamination barriers
• Agent disclosure and equipment contamination mapping
• Green technologies
• Effective low-cost decontaminants for individual equipment and personnel
• Pre-exposure barriers

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### Science and Technology Business Opportunities

<table>
<thead>
<tr>
<th>Solicitation</th>
<th>Key Dates</th>
<th>Targets</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Research BAA: HDTRA1-11-21-BRCWMD-BAA</td>
<td>Open March 2011 – September 2021</td>
<td>Basic Research: TRL 1 and early TRL2 Awards grants only</td>
<td>Apply: <a href="https://www.dtrasubmission.net">https://www.dtrasubmission.net</a> Info: <a href="mailto:HDTRA1-BRCWMD-SC@mail.mil">HDTRA1-BRCWMD-SC@mail.mil</a></td>
</tr>
<tr>
<td>Department of Defense FY 2017 Rapid Innovation Fund (RIF)</td>
<td>BAA Release Date TBD</td>
<td>Rapid insertion of innovative technologies into military systems or programs that meet critical national security needs</td>
<td>Apply: <a href="https://www.fbo.gov/">https://www.fbo.gov/</a></td>
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<tbody>
<tr>
<td>New Initiatives BAA Solicitation: HDTRA1-17-S-0002-BAA</td>
<td>In effect November 2016 – October 2021;</td>
<td>Overarching Challenges for countering WMD; TRL2 – TRL6</td>
<td>Posted: <a href="http://www.fbo.gov">www.fbo.gov</a> Apply: <a href="https://www.dtrasubmission.net">https://www.dtrasubmission.net</a> Info: <a href="mailto:DTRAInnovation@mail.mil">DTRAInnovation@mail.mil</a></td>
</tr>
<tr>
<td>The Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR)</td>
<td>CBD SBIR is participating in FY17.1 cycle and plans to participate in CBD STTR FY17.C cycle</td>
<td>DTRA and Chem/Bio Defense (CBD) represent two separate programs; see: <a href="https://sbir.defensebusiness.org">https://sbir.defensebusiness.org</a></td>
<td>Info and Apply: <a href="https://sbir.defensebusiness.org">https://sbir.defensebusiness.org</a></td>
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</table>

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<tr>
<th>Solicitation Schedule – FY17</th>
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<tbody>
<tr>
<td>Solicitation</td>
<td>Pre-Release</td>
<td>Open</td>
<td>Close</td>
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<tr>
<td>SBIR 17.1 &amp; STTR 17.A</td>
<td>30 Nov 16</td>
<td>10 Jan 17</td>
<td>8 Feb 17</td>
</tr>
<tr>
<td>SBIR 17.2 &amp; STTR 17.B</td>
<td>5 Apr 17</td>
<td>9 May 17</td>
<td>7 Jun 17</td>
</tr>
<tr>
<td>SBIR 17.3 &amp; STTR 17.C</td>
<td>25 Jul 17</td>
<td>22 Aug 17</td>
<td>20 Sep 17</td>
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