Army Industrial Base: Challenges & Opportunities

Role of Industry Partnerships

21 April 2010

Ronald J. Davis, Jr.
AMC DCS G4/7/9
Challenges

- Single Points of Failure

- Globalization of Industrial Base

- Organic Base
  - Facility and Equipment Modernization
  - Skill base retention
  - Declining workload

- Commercial Base
  - Weak economy affects lower tier critical subcontractors
  - Declining workload
  - Loss of knowledge base / skill reduction
Opportunities

- **Contractual Arrangements**
  - Performance Based Logistics
  - Facility use
  - Direct sales
  - Work share
  - Commercial services agreement

- **Partnerships**
  - Facilitates exchange of processes and practices
  - Uses the best of each partner’s capabilities
  - Fills gaps & mitigates risk of single point failures
AMC's Partnership Program

Goal:
✓ Mutually beneficial relationships building on strengths of each partner creating increased value.
  • Use of public sector facilities, equipment and employees
  • Work share arrangements

Objectives:
✓ Improve operational efficiency
✓ Lower the cost of products and services
✓ Accelerate innovation
✓ Secure private investment
✓ Sustain critical skills and capabilities
AMC’s Industrial Facilities

AMC INDUSTRIAL CAPABILITIES

- Overhaul/Repair/Remanufacture
  - Ground Vehicles & Helicopters (Including Components)
  - Radios, Radars & Other Electronic Items
- Heavy & Light Machining
- Seven-axis Machining Centers
- Heat Treatment, Plating & Finishes
- Tool, Die & Gage Development & Production
- Wood Pallet Manufacturing
- Explosive & Propellant Production
- Guided Boring of Thick Wall Cylinders
- Product Design, Development, Engineering & Fabrication
- Automated Testing
- Metallurgy
- Firing & Test Ranges
- Storage & Handling - Controlled Environment
- Rail Car Storage
- Chemical/Biological Protective Equipment Repair/Remanufacture
- Precision Bearings Analysis
- Foundry & Rotary Forging

AAA: Army Ammunition Activity
AAP: Army Ammunition Plant
AD: Army Depot
What's Available

❖ Facilities:
  ✓ Manufacturing/repair facilities
  ✓ Ranges (firing & test)
  ✓ Secure locations
  ✓ Warehouses

❖ Equipment (specialized equipment and tooling):
  ✓ Foundry and rotary forge
  ✓ Seven axis machining centers
  ✓ Guided boring of thick wall cylinders
  ✓ Tool, die & gage development/production

❖ Trained workforce:
  ✓ Competent/competitive
  ✓ LEAN Six Sigma experience
Enterprise Capabilities

- Overhaul/repair/remanufacture
  - Ground vehicles & helicopters (including components)
  - Radios, radars & other electronic items
- Product design, development, engineering & fabrication
- Heat treatment, plating & finishes
- Heavy and light machining
- Explosive and propellant production
- Chemical/Biological protective equipment repair/rebuild
## Partnership Examples

<table>
<thead>
<tr>
<th>Corpus Christi Army Depot</th>
<th>Anniston Army Depot</th>
<th>McAlester Army Ammunition Plant</th>
<th>Watervliet Arsenal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GE</strong></td>
<td><strong>Honeywell</strong></td>
<td><strong>Raytheon Systems</strong></td>
<td><strong>BAE Systems</strong></td>
</tr>
<tr>
<td>Apache</td>
<td>M1 Abrams tank</td>
<td>XM795 – Excalibur</td>
<td>155mm M776 Howitzer</td>
</tr>
<tr>
<td>Blackhawk</td>
<td>MTBF increased 2X</td>
<td>All Up Round Integration</td>
<td>Cannon Tubes</td>
</tr>
<tr>
<td>T700 series engine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>conversions</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
How can we enhance partnership opportunities to leverage the strengths of industry and AMC’s capabilities?

Contact information:

Alan Lee  
Industrial Base Capabilities Division  
HQ AMC Forward Redstone Arsenal  
Ph: 256-450-9164

Web Site:  
http://www.amc.army.mil/pa/PartnershipOpportunities.asp