

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Army		<b>DATE:</b> February 2011	
<b>APPROPRIATION/BUDGET ACTIVITY</b>	<b>R-1 ITEM NOMENCLATURE</b>	<b>PROJECT</b>	
2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)	PE 0603004A: Weapons and Munitions Advanced Technology	43A: ADV WEAPONRY TECH DEMO	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			
Supported development of next generation machining technology and equipment to produce cannon tubes and other armament components and assemblies..			
<b>Title:</b> Lightweight Reliable Materials for Military Systems	2.785	-	-
<b>Description:</b> This is a Congressional Interest Item.			
<b>FY 2010 Accomplishments:</b>			
Supported increasing the durability and reliability of the lightweight materials that the Army needs for the next generation of weapons and equipment.			
<b>Title:</b> Technology Development at the Quad Cities Manufacturing Laboratory	5.014	-	-
<b>Description:</b> This is a Congressional Interest Item.			
<b>FY 2010 Accomplishments:</b>			
Matured techniques for manufacturing of titanium and advanced ceramic structures, to reduce need for machining.			
<b>Title:</b> Recovery, Recycle, and Reuse of DOE Metals for DoD Applications	1.920	-	-
<b>Description:</b> This is a Congressional Interest Item.			
<b>FY 2010 Accomplishments:</b>			
Developed an efficient low cost method of obtaining lightweight specialty metals for use by the Department of Defense.			
<b>Title:</b> LW25 Gun System and Demonstration	2.400	-	-
<b>Description:</b> This is a Congressional Interest Item.			
<b>FY 2010 Accomplishments:</b>			
Developed a light weight machine gun for small helicopters.			
<b>Title:</b> Zumwalt National Program for Countermeasures to Biological and Chemical Threats	1.194	-	-
<b>Description:</b> This is a Congressional Interest Item.			
<b>FY 2010 Accomplishments:</b>			
Furthered the understanding and ability of operational military forces to identify, prevent, and mitigate threats from biological and chemical weapon agents.			
<b>Title:</b> Integrated Family of Test Equipment V6 Product Improvement Program	2.387	-	-