

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification							February 2003	
Appropriation/Budget Activity RDT&E BA 4				R-1 Item Nomenclature: Humanitarian Demining 0603920D8Z				
Cost (\$ in millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY2006	FY 2007	FY 2008	FY 2009
Total PE Cost	13.220	12.893	13.299	13.771	14.010	14.236	13.746	14.083
Humanitarian Demining/P920	13.220	12.893	13.299	13.771	14.010	14.236	13.746	14.083
A. Mission Description and Budget Item Justification:								
<p>The Humanitarian Demining R&D program element focuses on the testing, demonstration and validation of equipment for immediate use in various international humanitarian demining missions and environments. The goal is to provide equipment to the international demining community to assess equipment capabilities in actual demining conditions. The equipment developed under this program also has many uses for military applications as several pieces of equipment are being evaluated under the Joint Area Clearance Advanced Concept Technology Demonstration (JAC ACTD). This program focuses on R&D technology development that reduces the time and cost associated with demining while improving the overall safety of the operator. This is accomplished through the adaptation of commercial-off-the-shelf equipment, the integration of mature technologies, and the leveraging from past and current R&D project activity in the tactical countermine and unexploded ordnance clearance mission areas. The program aims to improve on existing technologies for: mine and minefield detection; wide area survey; mechanical/mine vegetation clearance to clear large areas quickly and more efficiently; individual deminer protection; detection of explosives in buried mines (biosensors); verification of the presence of mines; marking and mapping of mines/minefields; post clearance quality assurance (QA); mine awareness training; and individual deminer hand tools. The annual Humanitarian Demining Workshop brings the international community's Non-Governmental Organizations (NGO's) and Mine Action Centers (MACs) together to identify areas of emphasis.</p>								
B. Program Change Summary:								
		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>			
Previous President's Budget		13.220	13.355	13.529	14.074			
Current BES/President's Budget		13.220	12.893	13.299	13.771			
Total Adjustments								
Congressional program reductions			462					
Congressional rescissions								
Congressional increases								
Reprogrammings								
SBIR/STTR Transfer								
C. Other Program Funding Summary: NA								
D. Acquisition Strategy:								
<p>Following a rapid prototyping/development strategy, the program emphasizes the use/modification of existing commercially available items and components to build functional prototype equipment suited for humanitarian demining operations. This approach is required due to the immediate need for new humanitarian demining technologies in the face of ongoing casualties in mine-affected countries. The program develops prototype equipment by acquiring off-the-shelf equipment from industry using competition to the maximum extent possible, by leveraging ongoing countermine R&D efforts in other U.S. and foreign R&D activities, and by taking advantage of extensive in-house developmental capabilities at the Army's Night Vision & Electronic Sensor's Directorate (NVESD).</p>								