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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE FEBRUARY 2002	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense Wide/BA 4							R-1 ITEM NOMENCLATURE Humanitarian Demining PE 0603920D8Z		
<i>COST (In Millions)</i>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Total Program Element (PE) Cost	12.611	13.220	13.555	13.529	14.047	14.320	14.558	Continuing	Continuing
Humanitarian Demining/P920	12.611	13.220	13.555	13.529	14.047	14.320	14.558	Continuing	Continuing

(U) A. Mission Description and Budget Item Justification

(U) BRIEF DESCRIPTION OF ELEMENT

(U) This Humanitarian Demining R&D program element focuses on the testing, demonstration and validation of equipment suitable for immediate use in various international humanitarian demining missions and environments. The goal is to provide this equipment to the international demining community so that they may assess the equipment's capabilities in actual demining conditions. 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. Through technological development, this program aims to achieve the following primary objectives: to improve existing mine/minefield detection; improve current wide-area survey equipment; clear large areas faster and more efficiently with improved mechanical mine/vegetation clearance equipment; provide improved protection for deminers; detect explosives in buried mines (biosensors); confirm the presence of mines (verification); mark and map mines/minefields; improve post clearance quality assurance (QA) equipment; and improve deminer hand tools. These areas of emphasis have been adopted as a direct result of an annual Humanitarian Demining Requirements Workshop, the most recent of which took place in July 2001.

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(U) **Project Number and Title: P920 Humanitarian Demining**

(U) **PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY2001 Accomplishments:**

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(U) Continued to develop and demonstrate detection technologies for discrimination and confirmation to include leveraging existing technology from the tactical countermine area. Continued to develop wide area detection, mine/minefield marking, mapping and large area survey system. Initiated a cooperative endeavor with international partners for an area reduction system based on vapor detection. Completed all technical testing and field evaluations under the International Pilot Project Technology Cooperation Project and published the final report quantifying the performance of all commercially available handheld metal detectors. Continued to develop vegetation and mechanical clearance and neutralization systems suitable for removing dense vegetation from mined areas and excavating and clearing landmines. Further developed and demonstrated individual deminer protective equipment. Continued development of equipment suitable for area reduction and quality assurance operations. Initiated and completed operational field evaluations of detection, mine/vegetation clearance, neutralization and personal deminer protection systems in mine infested regions of the world to include Angola, Chile, Croatia, Israel, Kosovo, Lebanon, Namibia, Nicaragua, Cambodia, and Thailand. Conducted site surveys and country assessments in Croatia, Israel, Mozambique, Nicaragua, Oman, Thailand, and Yemen to provide advice on specific prototype items developed under the program. Completed and distributed the 2000-2001 Humanitarian Demining R&D Program Developmental Technologies catalog that reports on progress in developing equipment to assist with the global demining effort. Initiated a new program video representing the current overall programs. Held the annual HD Requirements Workshop and formed the basis of the FY02 program structure from the input received from supported national mine action centers, and non-governmental organizations. (12.611 Million)

(U) **FY 2002 Plans:**

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(U) Continue to develop and demonstrate detection technologies for discrimination and confirmation to include leveraging existing technology from the tactical countermine area. Continue to develop wide area detection, mine/minefield marking, and mapping and large area survey system. Continue detection cooperative endeavors with international partners. Continue to develop vegetation and mechanical clearance and neutralization systems suitable for removing dense vegetation from mined areas, and excavating and clearing landmines for large area reduction and QA operations. Continue to develop and demonstrate individual deminer protective equipment. Continue to develop information and instructional aids that improve mine awareness and the quality of deminer training. Conduct site survey(s)/country assessment(s) and also initiate operational field evaluations of the prototypes developed under the program in the area of detection, mine/vegetation clearance, neutralization and personal deminer protection systems in mine infested regions of the world. Further develop information and instructional aids that improve mine awareness and the quality of deminer training. Conduct an annual HD Requirements Workshop, and co-sponsor an Asia Regional Technology Workshop with the State Department . Complete and distribute 2001–2002 program video. (13.220 Million)

(U) FY 2003 Plans:

(U) Continue to develop and demonstrate detection technologies for discrimination and confirmation to include leveraging existing technology from the tactical countermine area. Continue to develop detection technologies to improve detection capability and reduce false alarms. Continue to conduct site survey(s) and country assessment(s), and conduct operational field evaluations of detection, mine/vegetation clearance and neutralization systems in mine infested regions of the world. Continue to develop and demonstrate individual deminer protective equipment. Continue development of equipment suitable for area reduction and quality assurance operations. Complete and distribute the 2001-2002 Humanitarian Demining R&D Program Developmental Technologies catalog that reports on progress in developing equipment to assist with the global demining effort. Conduct an annual HD Requirements Workshop. (13.355 Million)

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(U) <u>B. Program Change Summary</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
Previous President's FY Budget Submission	12.728	13.733	13.391	Continuing
Delta	-0.117	-0.221	0.000	
FY 2002 Amended President's Budget Submission	12.611	13.512	13.391	Continuing
Appropriated Value	12.728	13.512	0.000	Continuing
Adjustments to Appropriated Value				
a. Congressionally Directed Undistributed Reduction	0.000	0.000	0.000	
b. Rescission/Below-threshold Reprogramming, Inflation Adjustment	-0.117	0.000	0.000	
c. Other	0.000	0.000	-0.036	
Current FY 2003 Budget Submission	12.611	13.512	13.355	Continuing

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Change Summary Explanation:

- (U) **Funding:** FY 2001 reductions reflect Section 8086 adjustments. FY 2003 reductions reflect adjustments for inflation
- (U) **Schedule:** N/A
- (U) **Technical:** N/A
- (U) **C. Other Program Funding Summary Cost:** N/A
- (U) **D. Acquisition Strategy:** N/A
- (U) **E. Schedule Profile:** N/A

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