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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development					
COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	37467	29893	69584	60600	87009	110369	119170	Continuing	Continuing
D016 Mine Systems Engineering Development	26213	18225	0	2686	30831	49011	46694	Continuing	Continuing
D415 Mine Neutralization/Detection	11254	11668	33246	25292	29838	17561	22395	Continuing	Continuing
D434 Anti-Personnel Landmine Alternatives	0	0	12538	6355	0	0	0	0	18893
D443 APL-A Mixed Systems	0	0	23800	26267	26340	43797	50081	0	170285

A. Mission Description and Budget Item Justification: This program element provides for engineering and manufacturing development of mine and countermine systems. Project D016, Mine Systems Engineering Development, provides for the increased tactical effectiveness and responsiveness of landmines by supporting the development of a minefield command and control (C2) system for the Wide Area Mine (WAM), the Intelligent Combat Outpost (Raptor), the Area Denial Artillery Munition (ADAM)/Remote Anti-Armor Mine (RAAM) Upgrade (which has been renamed the Remote Area Denial Artillery Munition – RADAM), Non-Self-Destructing Anti-Personnel Landmine Alternatives (NSD-A), and an upgrade for the Volcano Dispenser Control Unit. Project D415, Mine Neutralization/Detection Engineering Development, is the engineering and manufacturing development for the Airborne Standoff Minefield Detection System (ASTAMIDS), Ground Standoff Mine Detection System (GSTAMIDS), Handheld Stand-off Mine Detection System (HSTAMIDS), and Countermine Contingency Stock (CMCS). It provides a group of mutually supported mine detection and neutralization devices to counter a variety of threat mines, minefields and obstacles necessary for implementing the Army's Countermine Modernization Plan. Project D434 continues effort on Non-Self-Destructing Anti-Personnel Landmine Alternatives (NSD-A). Project D443 provides for alternatives to anti-personnel (AP) submunitions used in mixed anti-tank (AT) and AP systems.

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 2000
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B. Program Change Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (<u>FY 2000/2001</u> PB)	52680	40916	39187
Appropriated Value	52905	30120	
Adjustments to Appropriated Value			
a. Congressional General Reductions	-225		
b. SBIR / STTR	-684		
c. Omnibus or Other Above Threshold Reductions		-123	
d. Below Threshold Reprogramming	-10427		
e. Recessions	-4102	-104	
Adjustments to Budget Years Since <u>FY 2000/2001</u> PB			+30397
Current Budget Submit (<u>FY 2001</u> PB)	37467	29893	69584

Change Summary Explanation: Funding - FY 1999: Explosive Standoff Minefield Clearer program was terminated. \$10.5M was reprogrammed to other higher priority Army programs. Congress increased the program by \$6.0M. However, \$4.0M was rescinded to support the Non-self Destruct Antipersonnel mixed system replacement studies.

 FY 2001: Additional program support was provided in support of the H-STAMIDS EMD effort (+30397).

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development	PROJECT D016
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COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D016 Mine Systems Engineering Development	26213	18225	0	2686	30831	49011	46694	Continuing	Continuing

A. Mission Description and Justification: Provides for engineering and manufacturing development of new smart munitions and intelligent/autonomous coordination of their use for increased effectiveness. Also addresses Presidential directive to eliminate reliance on the use of Anti-Personnel Landmines.

FY 1999 Accomplishments:

- 8805 Provided test hardware (1540 articles) for prototype assessment test (PAT) for NSD-A program
 - 3051 Provided NSD-A PAT instrumentation, execution, analysis, down select for MSI/II.
 - 3557 Provided remote Area Denial Artillery Munition (RADAM) hybrid design/development
 - 1100 Completed Load, Assemble and Pack (LAP) Plant facilitation for RADAM
 - 500 Completed Fabrication of RADAM process prove-out hardware (200 test items)
 - 5700 Conducted process prove-out and technical tests for RADAM
 - 1500 Fabricated RADAM Technical Test Hardware (1000 test items)
 - 2000 Provided studies of NSD-A designs/ Mixed System replacement
- Total 26213

FY 2000 Planned Program:

- 12509 Award NSD-A EMD contract to initiate NSD-A tactical design efforts
 - 3070 Provide engineering support for NSD-A design productibility/manufacturing development
 - 2155 Provide general engineering support for NSD-A design efforts
 - 491 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)
- Total 18225

FY 2001 Planned Program: Project not funded in FY 2001.

B. <u>Other Program Funding Summary</u>	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Compl	Total Cost
RDTE, BA4, PE 0603619A, Proj D005	1100	4068	12761	11376	0	0	0	Cont	Cont
Remote Area Denial Artillery Munition E67505		7967	47674	47621	47543			150805	
Non-Self Destruct Anti-Pers Landmine E91700				60811	121809	121562	121448	425630	

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development	PROJECT D016
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C. Acquisition Strategy: For Raptor, decision to go sole source or competitive will be based on evaluation of sole source PDRR contractor results. For NSD-A, 12 solicitation respondents were requested to submit proposals for their alternative concept. Cost Plus Incentive Fee (CPIF) contracts for two of the best concepts were awarded for the Early User Experiment (EUE) phase. At the conclusion of the EUE one contractor or a team will be selected to continue into the EMD and Production phases. For ADAM/RAAM Armament Research, Development and Engineering Center (ARDEC) (In-house) will lead the design and development effort. A government owned Load, Assemble, and Pack (LAP) facility will develop processes and tooling for the download of ADAM and RAAM and the creation of the hybrid projectile

D. Schedule Profile	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Complete NSD-A PAT		2Q							
NSD-A MS I/II		2Q							
NSD-A MS III				4Q					
RADAM MS III			1Q						
RADAM Material release				1Q					

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)

DATE **February 2000**

BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE
0604808A Landmine Warfare/Barrier - Engineering Development

PROJECT
D016

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
NSD-A Test Hardware	CPIF	Textron	0	3844	Nov98						3844	
NSD-A Test Hardware	CPIF	Alliant	0	4965	Nov98						4965	
NSD-A EMD	CPIF	Alliant	0	0		6350	Mar 00		Oct 00	0	6350	
NSD-A EMD	CPIF	Textron				6350	Mar 00				6350	
NSD-A EMD		Misc.				624	various				624	
RADAM EMD	N/A	ARDEC	0	7498	Oct 98	0	0	0		0	7498	
RADAM test hardware/facilitation	CP	LAP Facility	0	3100	Dec 98	0	0	0		0	3100	
NSD-A Design/mixed System replacement		Various (TBD)		2000							2000	
Subtotal Product Development:				21407		13324					34731	

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Eng. support NSD-A		ARDEC	0	1900	Oct 98	2600	Oct 99			0	4500	
b. Eng. Support NSD-A		OGA Misc.	0	0		1564	various			0	1564	
Subtotal Support Costs:				1900		4164					6064	

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. PAT support NSD-A		Government (TBD)	0	1056	Jan 99	0				0	1056	
b. Process Prove-out test RADAM		TECOM	0	1450	May 99	0					1450	
Subtotal Test and Evaluation:				2506							2506	

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development	PROJECT D016
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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
NSD-A and RADAM Program Management		PM-MCD	0	400	Oct 98	246	Oct 99			0	646	
SBIR/STTR						491					491	
Subtotal Management Services:				400		737					1137	
Project Total Cost:				26213		18225					44438	

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000					
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development				PROJECT D415				
COST (In Thousands)				FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D415 Mine Neutralization/Detection				11254	11668	33246	25292	29838	17561	22395	Continuing	Continuing
<p>A. <u>Mission Description and Justification:</u> This project provides engineering and manufacturing development for the Airborne Standoff Minefield Detection System (ASTAMIDS), Handheld Stand-off Mine Detection System (HSTAMIDS), Ground Standoff Mine Detection System (GSTAMIDS), and Anti-Personnel Obstacle Breaching System (APOBS). It also includes the Countermine Contingency Stock (CMCS) program that will provide immediate incremental increases in countermine capability to deployed units. The CMCS improves the capability to conduct route and area clearance operations with improvements to detection, marking, neutralization, and C4I. It provides a group of mutually supported mine detection and neutralization devices to counter a variety of threat mines, minefields and obstacles necessary for implementing the Army's Countermine Modernization Plan.</p> <p>FY 1999 Accomplishments:</p> <ul style="list-style-type: none"> • 103 Explosive Standoff Minefield Clearer (ESMC) termination • 145 APOBS Type Classification • 3406 Conducted GSTAMIDS Block 0 MSII and prepared contract solicitation package • 1000 Conducted source selection for GSTAMIDS Block 0 and awarded EMD contract • 6600 Completed GSTAMIDS Block 0 preliminary design <p>Total 11254</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 5000 Complete GSTAMIDS block 0 detailed design • 5254 Conduct GSTAMIDS block 0 system integration • 1100 Conduct GSTAMIDS Block 0 contractor tests • 314 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR) <p>Total 11668</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 5470 Fabricate two GSTAMIDS block 0 prototypes • 5400 Conduct GSTAMIDS contractor/ government testing • 3004 Initiate HSTAMIDS component design • 2381 Fabricate HSTAMIDS components and subsystems for contractor design verification test 												
Project D415				Page 7 of 14 Pages				Exhibit R-2A (PE 0604808A)				

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development				PROJECT D415		
<p>FY 2001 Planned Program: (continued)</p> <ul style="list-style-type: none"> • 364 Continue to develop HSTAMIDS documentation • 1333 Conduct initial HSTAMIDS contractor component and subsystem tests • 6400 Procure test hardware (mini flails, plows/rollers, magnetic mine countermeasures, wheeled protection for 5T and PLS trucks. • 2194 Identify and upgrade M1 chassis for Panther II • 2000 Improve and test mine information recording system software • 2300 Fabricate test hardware • 1900 Design/fabricate full width mine roller system for Panther II • 500 Test Engineer Change Proposal to HEMMS kits <p>Total 33246</p>										
B. Other Program Funding Summary										
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>	
PE 0603619A, Project D606, Countermine/Barrier Advanced Development	6702	6866	10042	19397	8222	4851	7888	Cont	Cont	
E72800, APOBS	0	5602	6540	4961	4956	0	0	0	22059	
R68200, HSTAMIDS	0	0	0	0	0	5803	6838	Cont	Cont	
R68101, GSTAMIDS	0	0	0	10189	15931	11528	0	Cont	Cont	
M80100, IVMMMD	3726	0	0	0	0	0	0	0	15878	
S11500, ASTAMIDS	0	0	0	0	6036	0	0	Cont	Cont	
<p>C. Acquisition Strategy: ASTAMIDS EMD contractor will be competitively selected for development of Block 0 (helicopter) and Block I (tactical UAV) configurations. EMD contractor will also be awarded production contract for limited quantity Block 0 systems. HSTAMIDS, contractors (two for each project) competitively selected for PDRR phase competition that will lead to a down select for the EMD phase. GSTAMIDS will leverage the Vehicle Mounted Mine Detector ATD effort with two competitively selected contractors for a total of five competing contractors in PDRR. One contractor will continue into EMD. Successful EMD contractors will be awarded initial production contract (sole source) with multiple option year buys. CMCS will use Non-developmental (NDI), Commercial off-the-shelf (COTS), and foreign developed equipment to meet the immediate need.</p>										
D. Schedule Profile										
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
GSTAMIDS Block 0 MS II	1Q*									
GSTAMIDS Block 0 MSIII				4Q						
GSTAMIDS Block I MS I**		2Q								
Project D415			Page 8 of 14 Pages				Exhibit R-2A (PE 0604808A)			

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development	PROJECT D415
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D. Schedule Profile	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
GSTAMIDS Block I MS II				4Q					
HSTAMIDS MS II		4Q							
HSTAMIDS MS III					4Q				
CMCS MS III			4Q						

** MS Decision will be conducted upon completion of tech base (PE63606/608) effort.

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)

DATE **February 2000**

BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE
0604808A Landmine Warfare/Barrier - Engineering Development

PROJECT
D415

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
GSTAMIDS EMD.	CPIF	EG&G Systems Inc.	0	6600	Apr 99	6000	Oct 99	4000	Oct 00	Cont	Cont	
HSTAMIDS EMD	CPIF	TBD	0	0		0	Dec99	5500	Oct00	Cont	Cont	
CMCS EMD	CPIF	TBD	0	0		0		12287	Dec 00	Cont	Cont	
Subtotal Product Development:				6600		6000		21787		Cont	Cont	

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Eng. support GSTAMIDS		NVESD/ CECOM	0	1945	Dec 98	1500	Oct 99	1000	Oct 00	Cont	Cont	
Eng support GSTAMIDS		Other (multiple)		1709	Nov98	1597	Oct99	1786	Oct00	Cont	Cont	
Eng. support HSTAMIDS		NVESD/ CECOM	0			0	Oct 99	1300	Oct00	Cont	Cont	
Eng Support CMCS		NVESD/CECOM	0	0		0		1300	Dec 00	Cont	Cont	
Subtotal Support Costs:				3654		3097		5386		Cont	Cont	

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Test support GSTAMIDS		TECOM	0	200	Jan 99	1070	Dec 99	2850	Apr 01	Cont	Cont	
Test support HSTAMIDS		TECOM	0	0		0	Apr00		Jan01	Cont	Cont	
Test Support CMCS		TECOM	0	0		0		1500	Apr01	Cont	Cont	
Subtotal Test and Evaluation:				200		1070		4350		Cont	Cont	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program management		PM-MCD	0	800	Oct 98	1187	Oct 99	1723	Oct 00	Cont	Cont	
SBIR/STTR						314				Cont	Cont	
Subtotal Management Services:				800		1501		1723		Cont	Cont	

Project Total Cost:				11254		11668		33246		Cont	Cont	
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UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development	PROJECT D434
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COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D434 Anti-Personnel Landmine Alternatives	0	0	12538	6355	0	0	0	0	18893

A. Mission Description and Budget Item Justification: Program provides for development of alternative systems for non self destruct anti-personnel landmines (APLs). The overall goal is to pursue an aggressive program to field alternative system(s) by 2006. This may allow the U.S. to sign the Ottawa Convention.

FY 1999 Accomplishments: Project not funded in FY 1999

FY 2000 Planned Program: Project not funded in FY 2000

FY 2001 Planned Program:

- 2750 Continue Non-Self Destruct Alternatives (NSD-A) government design efforts (initiated under D016)
 - 8323 Continue NSD-A contractor design producibility/manufacturing development (initiated under D016)
 - 1465 Provide general engineering support for NSD-A design efforts
- Total 12538

B. Other Program Funding Summary	FY 1999	BY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Compl	Total Cost
PE 64808/D016	26213	18225	0	2686	30831	49011	46694	cont	cont
SSN E91700				60811	121809	121562	121448	0	425630

C. Acquisition Strategy: Will competitively solicit for two contracts for development of system level prototypes. At the completion of prototype testing and evaluation, will downselect to the one contractor for continuation of EMD design effort. Option(s) for initial production will be included in contract following downselect.

D. Schedule Profile	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
NSD-A MS III				4Q			

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)										DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development					PROJECT D434		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. NSD-A EMD	CPIF	TBD	0	0		0		8323	Nov00	Cont	8323	
b. NSD-A EMD		ARDEC	0	0		0		2450	Oct00	Cont	2450	
Subtotal Product Development:								10773			10773	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Eng support NSD-A		ARDEC	0	0		0		1465	Oct00	Cont	1465	
Subtotal Support Costs:								1465			1465	
III. Test and Evaluation: Not applicable												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Program Mgmt NSD-A		PM-MCD	0	0		0		300	Oct00	Cont	300	
Subtotal Management Services:								300			300	
Project Total Cost:								12538			12538	

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)	DATE February 2000
--	------------------------------

BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development	PROJECT D443
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COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D443 APL-A Mixed Systems	0	0	23800	26267	26340	43797	50081	0	170285

A. Mission Description and Budget Item Justification: Provides alternatives to anti-personnel submunitions used in mixed anti-tank (AT)/anti-personnel (AP) Systems and possibly the entire mixed landmine system. The overall goal is to pursue an aggressive program to field alternative system(s) by 2006. This may allow the U.S. to sign the Ottawa Convention

FY 1999 Accomplishments: Project not funded in FY 1999

FY 2000 Planned Program: Project not funded in FY 2000

FY 2001 Planned Program:

- 8800 Complete concept exploration studies for Mixed System alternatives
 - 2500 Conduct Distributed Modeling of tactics and procedures
 - 6000 Model and develop advanced sensors and robotic technology
 - 6500 Conduct concept definition and risk reduction tasks
- Total 23800

B. <u>Other Program Funding Summary</u>	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Compl	Total Cost
PE64808/D434			12538	6355					
SSN: E91701							20000		

C. Acquisition Strategy: To be determined.

D. <u>Schedule Profile</u>	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Mixed system MS I/II*		4Q					
Mixed system MS III							4Q

*MSI/II will be based on efforts funded under PE63606 in FY00.

UNCLASSIFIED

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604808A Landmine Warfare/Barrier - Engineering Development					PROJECT D443		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Mixed System EMD	CPIF	TBD	0	0		0		18000	Dec 00	cont	cont	
Subtotal Product Development:								18000		Cont	Cont	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Eng. Support		ARDEC	0	0		0		2500	Oct 00	cont	cont	
b. Eng. Support		Other (multiple)	0	0		0		3000	Various	cont	cont	
Subtotal Support Costs:			0	0		0		5500		cont	cont	
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal Test and Evaluation:			0	0		0				cont	cont	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Program Mgmt.		PM-MCD	0	0		0		300	Oct 00	cont	300	
Subtotal Management Services:								300			300	
Project Total Cost:			0	0		0		23800		cont	cont	