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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)								DATE February 1999		
BUDGET ACTIVITY 4 - Demonstration and Validation				PE NUMBER AND TITLE 0603802A Weapons and Munitions - Advanced Development				PROJECT DAS2		
COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
DAS2 Small Arms Improvements	0	0	1751	2810	1436	1049	0	0	0	7046
<p>A. <u>Mission Description and Budget Item Justification:</u> This project element addresses the modernization of existing Small Arms Weapon systems. This program provides funds to develop existing and emerging technology to enhance lethality, target acquisition, fire control, training effectiveness and reliability for small arms weapon systems and munitions. Current small arms include a variety of personal defense weapons (.38 caliber, .45 caliber; 9mm), individual weapons (5.56mm), crew-served weapons (5.56mm-40mm) and related equipment such as fire control, training devices, hand grenades and ammunition. Current efforts focus on improvements to the M249 Squad Automatic Weapon, M16/M4 Rifle, M203 Grenade Launcher, MK19 Grenade Machine Gun and M240B Medium Machine Gun and hand grenades.</p> <p>FY 1998 Accomplishments: Project not funded in FY 1998</p> <p>FY 1999 Planned Program: Project not funded in FY 1999</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • <u>M249 MG Barrel Life Extension Program</u> <ul style="list-style-type: none"> 50 Concept Definition/Market Survey/Concept Evaluation 40 Requirements Definition and Specification 160 Feasibility Study 50 Evaluation of Study • <u>M203 Upgrade</u> <ul style="list-style-type: none"> 88 Technical Assessments 97 Trade-off Analysis 107 Formulate/Refine Designs 134 Formulate/Refine Designs/Competitive Contractor Selection • <u>MK19 Self Destruct Cartridge</u> <ul style="list-style-type: none"> 50 Market Survey 75 Prepare RFP 75 Technical Evaluation 250 Contract Award 										
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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
4 - Demonstration and Validation	0603802A Weapons and Munitions - Advanced Development	DAS2
<p>FY 2000 Planned Program: (continued)</p> <p><u>M240 Weight Reduction</u></p> <ul style="list-style-type: none"> • 59 Establish Parameters • 73 Survey Materials • 136 Award R&D Contract • 77 Trade Off Analysis <p><u>Family Of Light Weight Hand Grenades</u></p> <ul style="list-style-type: none"> • 100 Market Survey • 100 Performance Specification • 30 Procurement Package <p>Total 1751</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • <u>M203 Upgrade</u> • 455 Contract Award • 126 Fabricate Hardware • 289 Test and Evaluate Hardware • <u>MK19 Self Destruct Cartridge</u> • 250 Design and Fabricate Prototype • 300 Testing • 50 Final Report • <u>M240 Weight Reduction</u> • 521 Fabricate Prototypes • 99 Test and Evaluate • <u>Family Of Light Weight Hand Grenades</u> • 110 Procurement Package • 500 Contract Award • 110 Build Prototypes <p>Total 2810</p>		
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BUDGET ACTIVITY 4 - Demonstration and Validation					PE NUMBER AND TITLE 0603802A Weapons and Munitions - Advanced Development				PROJECT DAS2					
B. Program Change Summary					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>						
Previous President's Budget (FY 1999 PB)					0	0	1656	2630						
Appropriated Value					0	0								
Adjustments to Appropriated Value														
a. Congressional General Reductions														
b. SBIR/STTR														
c. Omnibus or Other Above Threshold Reductions														
d. Below Threshold Reprogramming														
e. Rescissions														
Adjustments to Budget Years Since FY 1999 PB							+95	+180						
Current Budget Submit (FY 2000 / 2001 PB)					0	0	1751	2810						
C. Other Program Funding Summary					<u>FY 1998</u>	<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	Total
													<u>Compl</u>	<u>Cost</u>
RDTE 0604802A, Project DAS1							410	966	3942	9910	5715	5275	26218	
Remarks: Funding here reflects only those programs starting in project DAS2 and continuing into project DAS1. It does not include projects starting in DAS1.														
D. Acquisition Strategy: Primary strategy is to make technical assessments, trade-off analysis, formulate and refine designs, test and evaluate items, and make determinations as to whether the item should be transitioned into Engineering Development.														
Schedule Profile					<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<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>
M249 MG Barrel Life Extension Program														
Concept Definition									1Q					
Market Survey									1-2Q					
Concept Evaluation									2-3Q					
Requirement Definition & specification									3Q					
Feasibility Study									3-4Q					
Evaluation of Study (Use of FY2000 c/o)										1Q				
M203 Upgrade														
Technical Assessments									1Q					
Trade-off Analysis									1-2Q					
Formulate/Refine Designs									3-4Q					
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<u>Schedule Profile</u>	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<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>	
Competitive Contractor Selection					3-4Q						
Contract Award (s)						1Q					
Fabricate Hardware						1-3Q					
Test & Evaluate						2-4Q					
Finalize Prototype							1-2Q				
System Demo							3Q				
Formulate 6.4 Program							3Q				
Prepare/Staff IPR Package							4Q				
<u>MK19 Self Destruct Cartridge</u>											
Market Survey					1Q						
Prepare RFP					1-2Q						
Technical Evaluation					3Q						
Contract Award					4Q						
Design/Fabrication Prototype						1Q					
Testing						2-3Q					
Final Report						4Q					
<u>M240 Weight Reduction</u>											
Establish Parameters					1-2Q						
Survey Materials					2Q						
Award Contract					2Q						
Trade Off Analysis					3Q						
Fabricate Prototypes						3Q					
Preliminary Test						4Q					
Fabricate New Prototypes							2Q				
Test							3Q				
Rebuild							4Q				
Demo/Report							4Q				
<u>Family Of Light Weight Hand Grenade</u>											
Market Survey					1-2Q						
Performance Specification					3Q						
Procurement Package					4Q	1Q					
Contract Award						2Q					

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Schedule Profile	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<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>
Build Prototypes						3-4Q				
Performance Validation							1Q			
Testing							2-3Q			
Design Modification							4Q	1Q		
Additional Testing								2-3Q		
Final Report								4Q		

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 1999		
BUDGET ACTIVITY 4 - Demonstration and Validation				PE NUMBER AND TITLE 0603802A Weapons and Munitions - Advanced Development						PROJECT DAS2		
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. Hardware Development	FP	TBD				285	Multi	1275	Multi	750	2310	2310
Subtotal Product Development:						285		1275		750	2310	2310
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. Development Support	MIPR	ARDEC				1230	Multi	1037	Multi	1202	3469	3469
b. ILS Support	MIPR	ACALA				4	Multi	4	Multi	4	12	12
Subtotal Support Costs:						1234		1041		1206	3481	3481
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. DT	MIPR	TECOM/ARDEC				30	Multi	264	Multi	345	639	639
b. Human Factors	MIPR	ARL-HEL				10	Multi	10	Multi	10	30	30
Subtotal Test and Evaluation:						40		274		355	669	669
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 Mgt	ALLOT					164	Multi	196	Multi	153	513	513
b. TDY	ALLOT					28	Multi	24	Multi	21	73	73
Subtotal Management Services:						192		220		174	586	586
Project Total Cost:						1751		2810		2485	7046	7046

Project DAS2