

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2006			
BUDGET ACTIVITY 7 - Operational system development			PE NUMBER AND TITLE 0203726A - Adv Field Artillery Tactical Data System							
COST (In Thousands)		FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost		18846	16820	17394	12661	10073	8426	8204	Continuing	Continuing
322	Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)	18846	16820	17394	12661	10073	8426	8204	Continuing	Continuing
<p><b>A. Mission Description and Budget Item Justification:</b> The Advanced Field Artillery Tactical Data System (AFATDS) is the tool that performs automated fire support coordination for the Army, Navy, Air Force, and Marine Corps. Fire support is the effects of lethal and non-lethal weapons (fires) that directly support land, maritime, amphibious, and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. Fire support coordination is the planning and execution of fires so that a suitable weapon or group of weapons adequately covers targets.</p> <p>AFATDS performs the attack analysis necessary to determine the optimal weapon target pairing to provide maximum use of the fire support assets. AFATDS will automatically implement detailed commander's guidance in the automation of operational planning, movement control, targeting, target value analysis and fire support planning. This project is a replacement system for the Initial Fire Support Automated System, Battery Computer System and Fire Direction System. AFATDS will interoperate with the other Army Battle Command Systems, current and future Army, Navy and Air Force Command and Control weapon systems, and the German, French, British, and Italian fire support systems. AFATDS automates the planning, coordinating and controlling of all fire support assets in the Joint battlespace (field artillery, mortars, close air support, naval gunfire, attack helicopters, and offensive electronic warfare). AFATDS will perform the Fire Support Command, Control, and Coordination requirements at all echelons of field artillery and maneuver, from Echelons Above Corps to Battery or Platoon in support of all levels of conflict. The system is composed of Common Hardware/Software employed in varying configurations at different operational facilities (or nodes) and unique system software interconnected by tactical communications in the form of a software-driven, automated network.</p>										

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BUDGET ACTIVITY

**7 - Operational system development**

PE NUMBER AND TITLE <b>0203726A - Adv Field Artillery Tactical Data System</b>
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# 0203726A - Adv Field Artillery Tactical Data System

<b><u>B. Program Change Summary</u></b>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	17269	16064	16948
Current BES/President's Budget (FY 2007)	18846	16820	17394
Total Adjustments	1577	756	446
Congressional Program Reductions		-74	
Congressional Rescissions	-15	-170	
Congressional Increases		1000	
Reprogrammings	1592		
SBIR/STTR Transfer			
Adjustments to Budget Years			446

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COST (In Thousands)		FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
322	Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)	18846	16820	17394	12661	10073	8426	8204	Continuing	Continuing
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> The Advanced Field Artillery Tactical Data System (AFATDS) is the tool that performs automated fire support coordination for the Army, Navy, Air Force, and Marine Corps. Fire support is the effects of lethal and non-lethal weapons (fires) that directly support land, maritime, amphibious, and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. Fire support coordination is the planning and execution of fires so that a suitable weapon or group of weapons adequately covers targets.</p> <p>AFATDS performs the attack analysis necessary to determine the optimal weapon target pairing to provide maximum use of the fire support assets. AFATDS will automatically implement detailed commander's guidance in the automation of operational planning, movement control, targeting, target value analysis and fire support planning. This project is a replacement system for the Initial Fire Support Automated System, Battery Computer System and Fire Direction System. AFATDS will interoperate with the other Army Battle Command Systems, current and future Army, Navy and Air Force Command and Control weapon systems, and the German, French, British, and Italian fire support systems. AFATDS automates the planning, coordinating and controlling of all fire support assets in the Joint battlespace (field artillery, mortars, close air support, naval gunfire, attack helicopters, and offensive electronic warfare). AFATDS will perform the Fire Support Command, Control, and Coordination requirements at all echelons of field artillery and maneuver, from Echelons Above Corps to Battery or Platoon in support of all levels of conflict. The system is composed of Common Hardware/Software employed in varying configurations at different operational facilities (or nodes) and unique system software interconnected by tactical communications in the form of a software-driven, automated network.</p>										
<b><u>Accomplishments/Planned Program</u></b>							<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
Prepare and Support AFATDS Version 6.4 Test, Materiel Release and subsequent software block releases.							1242	3692	2028	
Continue AFATDS Version 6.4 and subsequent software block effort.							17604	13128	15366	
Total							18846	16820	17394	
<b><u>B. Other Program Funding Summary</u></b>		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA (B28600)		38717	26671	22035	13543	18043	7727	2216	CONT	CONT
Spares (BS9708)		96	100	92	0	0	0	0	CONT	CONT
Mod Of In Service Equip (B28620)		3908	5040	5434	6297	8816	0	0	CONT	CONT

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<p><b>C. Acquisition Strategy</b> AFATDS have been fielded since 1996, with the original AFATDS Version 96 Materiel Release. It has been updated with subsequent releases reflecting the Spiral development strategy of the program. AFATDS Version 6.3.2 was released in January 2004, and AFATDS Version 6.4.0 is planned for March 2006. Future releases will include continuing joint and operational requirements resulting from Operation Iraq Freedom, Operation Enduring Freedom and future operational experience, as well as new weapons and precision fires capabilities.</p>		

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0203726A - Adv Field Artillery Tactical Data System						PROJECT 322		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Software Development	CPAF	Raytheon Systems Corp, Ft. Wayne, IN	195447	14082	1-2Q	11378	2Q	13110	2Q	Continue	Continue	0
ABCS System Engineering & Integration Efforts	PWD	PEO C3T, Ft Monmouth, NJ	5390	0		0		0		Continue	Continue	0
Peculiar Support Equipment (PSE)	C/FFP	General Dynamics, Taunton, MA	4267	290	2Q	269	2Q	274	2Q	Continue	Continue	0
Subtotal:			205104	14372		11647		13384		Continue	Continue	0
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Software Development Support	MIPR	CECOM, Ft. Monmouth, NJ & Telos, Shrewsbury, NJ	5187	523	2Q	534	2Q	529	2Q	Continue	Continue	0
Engineering Support	MIPR	CECOM, Ft Monmouth, NJ	3641	580	1-2Q	589	2Q	460	2Q	Continue	Continue	0
Subtotal:			8828	1103		1123		989		Continue	Continue	0
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Test Management		PM IE, Ft. Monmouth, NJ	723	140	2Q	143	2-3Q	146	2Q	Continue	Continue	0
Test Support	MIPR	Titan, Ft Sill, OK and Various	5594	950	2Q	890	2-3Q	760	2Q	Continue	Continue	0
Limited User Test/Government Confidence Demo	MIPR	Army Test & Evaluation Command	3000	730	2-3Q	1536	2-3Q	650	2-3Q	Continue	Continue	0

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BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0203726A - Adv Field Artillery Tactical Data System							PROJECT 322		
Subtotal:				9317	1820		2569		1556		Continue	Continue	0
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
PM Support	T&M	CSC, Eatontown, NJ	4104	511	2Q	488	2Q	470	2Q	Continue	Continue	0	
Program Management		PM IE, Ft Monmouth, NJ	7263	1040	1-4Q	993	1-4Q	995	1-4Q	Continue	Continue	0	
Subtotal:				11367	1551		1481		1465		Continue	Continue	0
Project Total Cost:				234616	18846		16820		17394		Continue	Continue	0

Schedule Profile (R4 Exhibit)																		February 2006																	
BUDGET ACTIVITY								PE NUMBER AND TITLE																		PROJECT									
7 - Operational system development								0203726A - Adv Field Artillery Tactical Data System																		322									
Event Name								FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11			
								1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Fielding 6.3.2								Fielding 6.3.2																											
(1) UMR 6.4: OIF/OEF												▲1 UMR 6.4:OIF/OEF																							
Fielding UMR												Fielding 6.4: OIF/OEF																							
(2) MR: 6.4												▲2 MR: 6.4																							
Fielding 6.4												Fielding 6.4																							
(3) MR: S/W Block II																▲3 MR: S/W Block II																			
Fielding SW Block II																Fielding SWB II																			
(4) MR: SW Block III																				▲4 MR: S/W Block III															
Fielding SW Block III																				Fielding SWB III															
(5) MR: SW Block IV																												▲5 MR: S/W Block IV							

Schedule Detail (R4a Exhibit)						February 2006	
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<u>Schedule Detail</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>
AFATDS Version 6.4 Urgent Materiel Release: OIF/OEF		1Q					
AFATDS Version 6.4 Materiel Release		2Q					
Operational Evaluation Software Block II			2-3Q				
Software Release Block II			4Q				
Operational Evaluation Software Block III				3-4Q			
Software Release Block III					2Q		
Operational Evaluation Software Block IV						2-3Q	
Software Release Block IV						4Q	