	ARMY RDT&E BUDGET IT	TEM JU	STIFIC	ATION	I	February 2006				
	GET ACTIVITY  ystem Development and Demonstration	PE NUMBER A <b>0604633A</b> •			РРОЈЕСТ <b>586</b>					
	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
586	AIR TRAFFIC CONTROL	2011	4444	4527	4026	3693	2720	4864	0	30848

A. Mission Description and Budget Item Justification: This program element funds continuous efforts in the development of modernized tactical and fixed base Air Traffic Control (ATC) systems that will significantly enhance aviation safety in both the tactical and strategic ATC domains. Funded in this program element is the development of the Mobile Tower System (MOTS). The MOTS is a tactical mobile tower designed to meet the deployability and communication requirements of the current to future force. The MOTS will be equipped with modernized and secure avionics to ensure highly reliable and consistent tactical aircraft communications across all frequency bands and ranges to ensure compatibility with all Army, Joint, and Allied aircraft. MOTS will provide modern digital, secure, anti-jam communications, a digital recorder, basic weather information, a precision location capability, and full compatibility with all military and civilian airfields as well as tactical landing zones. The currently fielded systems, AN/TSW-7A and AN/TSQ-70A, are obsolete and require two, two and a half ton vehicles, a 15Kw generator, and a support trailer to fully operate. These systems are not deployable on any aircraft smaller than a C-5, do not meet communications requirements across the operational spectrum, and are very difficult to maintain because parts are no longer manufactured for the system. MOTS is an effective risk management tool.

Product improvements include the Air Traffic Navigation, Integration, and Coordination System (ATNAVICS) and the Tactical Airspace Integration System (TAIS). The ATNAVICS will be upgraded with a capability to interface with other ATC equipment and Army systems. Through integration of the Air Defense Interrogator, ATNAVICS will have precise radar data valuable to field artillery and air defense and interfaces will be developed to share this data. Ultimately, ATNAVICS will feed positioning and identification data of friendly air vehicles (fixed, rotary, and unmanned aerial vehicles) into the Single Integrated Air Picture (SIAP) for improved situational awareness, track continuity, airspace deconfliction and fratricide prevention. As part of the Army Battle Command System (ABCS), TAIS will evolve to more advanced collaborative capabilities, interoperability initiatives and additional Air Force interfaces. TAIS will migrate to Army Software Blocking interoperability requirements and will also ensure Joint Airspace Management and Deconfliction (JASMAD) development meets Army ATC requirements. ATC will continue to provide the warfighter with increasingly lightweight, user friendly and reliable tools to perform airspace planning and to meet the technological and operational ATC requirements for future battlefield operations.

FY 2005	FY 2006	FY 2007
555	4079	3714
507	0	0
366	0	0
150	0	0
86	0	93
0	0	333
249	262	279
98	103	108
2011	4444	4527
	555 507 366 150 86 0 249 98	555 4079 507 0 366 0 150 0 86 0 0 249 262 98 103

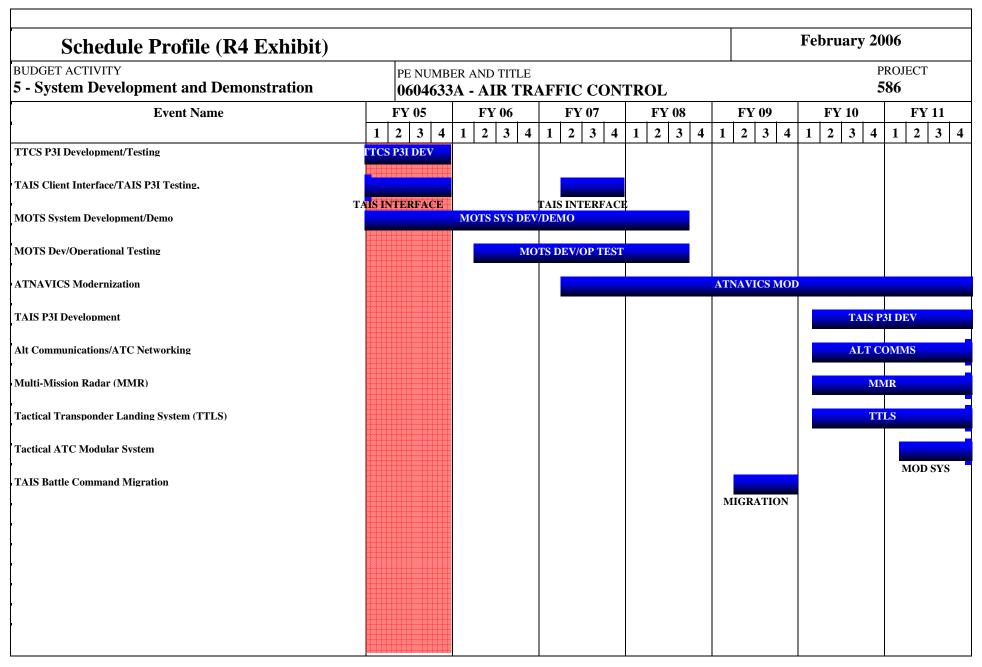
ARMY RDT&E BUDG		February 2006							
BUDGET ACTIVITY 5 - System Development and Demonstr	ation		ER AND TITLE A - AIR TR	I	PROJECT <b>586</b>				
B. Program Change Summary		FY 2005	FY 2006	FY 2007					
Previous President's Budget (FY 2006)		2012	4508	4374					
Current BES/President's Budget (FY 2007)		2011	4444	4527					
Total Adjustments		-1	-64	153					
Congressional Program Reductions			-45						
Congressional Rescissions			-19						
Congressional Increases									
Reprogrammings		-1							
SBIR/STTR Transfer									
Adjustments to Budget Years				153					
			•		-				
	,								
C. Other Program Funding Summary	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cos
APA AA0050 - Air Traffic Control	55006	61562	86351	93520	74128	76472	84108	CONT	CON

Comment:

**D.** Acquisition Strategy PM ATC will continue to embrace new technology initiatives for the development of tactical ATC equipment and the integration of new technology into existing systems. Technology insertion will be acquired through contract modifications, engineering services tasks, and new/follow-on contracts. MOTS System Development and Demonstration contract will be awarded competitively in FY06. MOTS fabrication and testing to be completed in FY08.

ARMY RDT&	E COST	Γ ANALYSIS	(R3)							Februar	y 2006	
BUDGET ACTIVITY 5 - System Development a	nd Demons	tration		ER AND TI		IC CONT	TROL			СТ		
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
TTCS P3I	MIPR	Aviation Applied Technology Directorate, Ft. Eustis VA	832	507	1-2Q	0		0		0	1339	0
Tech and Log Development Support	Inhouse	PM ATC, Redstone Arsenal, AL	350	249	1-4Q	262	1-4Q	279	1-4Q	Continue	Continue	Continue
MOTS System Development/Demo	C/CPFF	TBD	0	0		3324	2Q	2426	2Q	Continue	Continue	Continue
Subtota	al:		1182	756		3586		2705		Continue	Continue	Continue
II. Support Costs	Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	Award Date	FY 2006 Cost	Award Date	FY 2007 Cost	FY 2007 Award Date	1	Total Cost	Target Value of Contract
		Location	1 13 Cost	Cost		Cost		Cost		Complete	Cost	
MOTS System Development/Demo	Various	Various	0	555	1-3Q	718	2-3Q	935	1-3Q	Continue	Continue	Continue
ATNAVICS Modernization	C/CPFF	Raytheon, Marlboro, MA	0	0		0		333	2Q	Continue	Continue	Continue
TAIS Client Interface	MIPR	Future Skies, Fort Monmouth, NJ	0	150	2Q	0		0		0	150	0
Subtota	al:		0	705		718		1268		Continue	Continue	Continue
III. Test And Evaluation	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award	FY 2006 Cost	FY 2006 Award	FY 2007 Cost	FY 2007 Award	Cost To Complete	Total Cost	Target Value of
TTCS P3I Testing	Type MIPR	Aviation Applied Technology Directorate, Ft. Eustis VA	103	366	Date 1-3Q	0	Date	0	Date	0	469	Contract 0
	+	Army Test and	0	0		37	2Q	353	2Q	Continue	Continue	Continue

ARMY RDT&E COST ANALYSIS (R3)										February 2006				
BUDGET ACTIVITY  5 - System Development	and Demons	PE NUMBER AND TITLE 0604633A - AIR TRAFFIC CONTROL							PROJECT <b>586</b>					
TAIS P3I Testing	MIPR	Joint Interoperability Test Comd, Ft Huachuca, AZ	0	86	2Q	0		93	2Q	0	179			
Subtotal:			103	452		37		446		Continue	Continue	Continu		
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	Targe Value o Contrac		
Program Management Support	In-House	PM ATC, Redstone Arsenal, AL	1690	98	1-4Q	103	1-4Q	108	1-4Q	Continue	Continue	Continu		
Subt	otal:		1690	98		103		108		Continue	Continue	Continu		
Project Total	Cost:		2975	2011		4444		4527		Continue	Continue	Continu		



## Schedule Detail (R4a Exhibit) BUDGET ACTIVITY 5 - System Development and Demonstration February 2006 PROJECT 0604633A - AIR TRAFFIC CONTROL February 2006

Schedule Detail	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
TTCS P3I DEVELOPMENT AND TESTING	1-4Q						
TAIS CLIENT INTERFACE AND P3I TESTING	1-4Q		2-4Q				
MOTS SYSTEM DEVELOPMENT/DEMO	1-4Q	1-4Q	1-4Q	1-3Q			
MOTS DEVELOPMENTAL/OPERATIONAL TESTING		2-4Q	1-4Q	1-3Q			
ATNAVICS MODERNIZATION			2-4Q	1-4Q	1-4Q	1-4Q	1-4Q
TAIS P3I						2-4Q	1-4Q
ALT COMMUNICATIONS AND ATC NETWORKING						2-4Q	1-4Q
MULTI-MISSION RADAR						2-4Q	1-4Q
TACTICAL TRANSPONDER LANDING SYSTEM						2-4Q	1-4Q
TACTICAL ATC MODULAR SYSTEM							2-4Q
TAIS BATTLE COMMAND MIGRATIONS					2-4Q		