ARMY RDT&E BUDGET ITEM JUS	STIFIC	ATION	(R2 E	xhibit)	Fe	ebruary 2	2004					
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER 0604633			CONTRO)L		PROJECT 586				
COST (In Thousands)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total Cost			
ocer (iii rriousarius)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete				
586 AIR TRAFFIC CONTROL	216 ⁻	2489	2088	2161	1936	1384	1406	0	15900			

A. Mission Description and Budget Item Justification:

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. A Non-Developmental Item (NDI), 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 the system. The system is not deployable on any aircraft smaller than a C-5, does not meet communications requirements across the operational spectrum, and is very difficult to maintain because parts are no longer manufactured for the system. MOTS is an effective risk management tool.

Product improvements include the Tactical Terminal Control System (TTCS) and the Air Traffic Navigation, Integration, and Coordination System (ATNAVICS)/ATC Equipment. The TTCS will be improved with modernized equipment that will provide additional capability and improve performance of the overall system. The TTCS will provide enhanced Air Traffic Services (ATS) communications support to aviation assets conducting reconnaissance, maneuver, medical evacuation, logistics, and intelligence operations across the battlefield. The ATNAVICS will be upgraded with a capability to interface with other ATC equipment. The ATC equipment will have the capability to display nea

Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
Program Support	224	330	347
MOTS Prototype Development	1937	1164	0
TTCS P3I Development	0	935	419
TTCS P3I Testing	0	0	600
ATNAVICS/ATC Interface	0	0	722
Small Business Innovative Research/Small Business Technology Transfer	0	60	0
Totals	2161	2489	2088

ARMY RDT&E BUDGET ITEM JUSTIFI	PE NUMBER AND TITLE PROJECT 586	February 2004
BUDGET ACTIVITY 5 - System Development and Demonstration		

B. Program Change Summary	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	2199	2514	2596
Current Budget (FY 2005 PB)	2161	2489	2088
Total Adjustments	-38	-25	-508
Congressional program reductions		-23	
Congressional rescissions	-75		
Congressional increases			
Reprogrammings	89	-2	
SBIR/STTR Transfer	-52		
Adjustments to Budget Years			-508

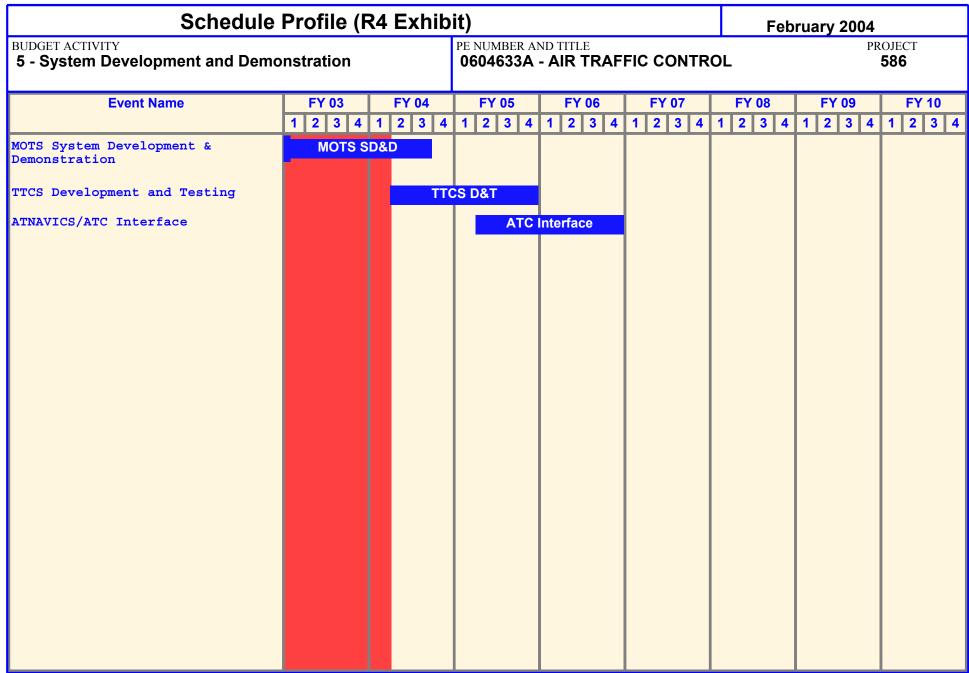
FY 05: Funds realigned (\$508k) to higher priority requirements.

C. Other Program Funding Summary	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	ToCompl	<u>TotalCost</u>
APA AA0050 - Air Traffic Control	63292	59518	59449	52328	62784	71640	62404	Continue	Continue

ARMY RDT&E BUDGET ITEM JUSTIF	ICATION (R2 Exhibit)	February 2004
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604633A - AIR TRAFFIC CONTRO	PROJECT L 586
<u>D. Acquisition Strategy:</u> Explore new technology initiatives for the developm National Airspace System (NAS), and integrate new technology into existing system (NAS).	ent of tactical ATC equipment, ensure complete integrates.	gration of tactical ATC equipment with the

BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604633A - AIR TRAFFIC CONTROL					February 2004 PROJECT L 586			
. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date		Total Cost	Targe Value o Contrac	
a. MOTS	MIPR	Prototype Integration Facility (PIF), Redstone Arsenal, AL	3502	1733	1-2Q	0		0		0	5235	4472	
b. TTCS P3I	TBS	TBS	0	0		995	2-3Q	419	1-2Q	0	1414	1354	
c . ATNAVICS/ATC INTERFACE	TBS	TBS	0	0		0		722	2-3Q	Continue	Continue	Continue	
d . IN-HOUSE SUPPORT		PM ATC	0	114	1-4Q	204	1-4Q	244	1-4Q	Continue	Continue	Continue	
Subtotal:			3502	1847		1199		1385		Continue	Continue	Continue	
I. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date		Total Cost	Targe Value o Contrac	
Subtotal:			0	0		0		0		0	0	C	

ARMY RDT&E COST ANALYSIS(R3) February 2004 PROJECT **BUDGET ACTIVITY** PE NUMBER AND TITLE 5 - System Development and Demonstration 0604633A - AIR TRAFFIC CONTROL 586 III. Test and Evaluation Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 Cost To Total Target Method & Location PYs Cost Cost Cost Value of Award Award Cost Award Complete Cost Contract Type Date Date Date a. MOTS **MIPR** REDSTONE 298 204 3Q 1164 2Q 1666 1666 **TECHNICAL TEST** CTR (RTTC), REDSTONE ARSENAL, AL b. TTCS TESTING **TBS** O O 0 600 3Q 600 600 298 204 1164 600 0 2266 2266 Subtotal: Performing Activity & FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 IV. Management Services Total Cost To Total Contract Target Method & PYs Cost Cost Award Cost Cost Award Complete Cost Value of Location Award Type Date Date Date Contract a. ATNAVICS PM ATC 1125 0 0 0 1125 1125 b. MOTS PM ATC 233 110 1-4Q 63 1-4Q 0 406 406 0 52 c. TTCS P3I PM ATC 0 1-4Q 1-4Q 115 115 63 d. ATNAVICS/ATC PM ATC 0 0 0 Continue Continue Continue **INTERFACE** 1358 110 126 103 Continue Continue Continue Subtotal: Project Total Cost: 5158 2161 2489 2088 Continue Continue Continue



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Schedule Detail (R4a Exhibit)							February 2004			
BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604633A - AIR TRA					TROL .		P	ROJECT 586		
Schedule Detail	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009			
MOTS Prototype Development	1-4Q									
MOTS Developmental Testing	3-4Q	1-3Q								
TTCS P3I Development		2-4Q	1-4Q							
TTCS P3I Testing			3-4Q							
ATNAVICS/ATC Interface			2-4Q	1-4Q						