Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0604233F: Specialized Undergraduate Pilot Training

BA 5: Development & Demonstration (SDD)

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	11.801	10.862	8.066	0.000	8.066	8.410	11.089	11.067	13.225	Continuing	Continuing
654102: Joint Primary Aircraft Training System (JPATS)	8.216	9.281	3.724	0.000	3.724	2.316	3.846	2.338	3.790	Continuing	Continuing
654376: T-38 Avionics Upgrade Program (AUP)	3.585	1.581	1.149	0.000	1.149	1.165	1.175	1.149	1.125	Continuing	Continuing
655340: Advanced Trainer Replacement T-X	0.000	0.000	3.193	0.000	3.193	4.929	6.068	7.580	8.310	Continuing	Continuing

A. Mission Description and Budget Item Justification

Supports Air Education and Training Command's (AETC) implementation of Specialized Undergraduate Pilot Training (SUPT) and the Department of Defense initiative for joint pilot training. The Joint Primary Aircraft Training System (JPATS) is a joint USAF/USN venture to replace the Services' fleets of primary trainer aircraft (T-37 and T-34 respectively) and associated Ground Based Training Systems (GBTS). The Air Force is the Executive Service. The T-38 AUP is an integrated modernization of the T-38A and AT-38B cockpits to support mission ready fighter and bomber training. The Advanced Trainer Replacement (T-X) program is a FY2011 new start to begin preliminary activity for the replacement of the T-38 trainer aircraft used in the advanced fighter/bomber SUPT track.

JPATS T-6 FY2009 - FY2015 includes annual funding for the development and test of upgrades and enhancements to both the aircraft and the Ground Based Training System (GBTS) hardware and software components. FY2011, FY2013 and FY2015 include funding to upgrade software and threat libraries for the Simulator for Electronic Combat Technology (SECT), a generic electronic warfare simulator used to train student Combat Systems Officers (CSO). Although in the same project, SECT is unrelated to the JPATS program.

T-38 FY2009 - FY2015 funding is for software block updates driven by FAA-mandated changes, National Aerospace System (NAS) requirements, and enhancements identified during test and evaluation. FY2009 included development funding for improved T-38 brakes, which has been cancelled.

Advanced Trainer Replacement FY2011 - FY2015 funding will be used to complete Material Solution Analysis and begin competitive prototyping activities.

This program element is in Budget Activity 5, System Development and Demonstration (SDD), because it primarily involves the missionization of commercial derivative aircraft, equipment, and components.

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	PE 0604233F: Specialized Undergraduate Pilot Training	

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	13.426	6.227	0.000	0.000	0.000
Current President's Budget	11.801	10.862	8.066	0.000	8.066
Total Adjustments	-1.625	4.635	8.066	0.000	8.066
 Congressional General Reductions 		0.000			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 		0.000			
 Congressional Directed Transfers 		0.000			
 Reprogrammings 	0.000	0.000			
 SBIR/STTR Transfer 	0.000	0.000			
 Other Adjustments 	-1.625	4.635	8.066	0.000	8.066

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 654102: Joint Primary Aircraft Training System (JPATS)

Congressional Add: AT-6 capability demonstration for the Air National Guard

	1 1 2003	1 1 2010
	6.000	7.000
Congressional Add Subtotals for Project: 654102	6.000	7.000
Congressional Add Totals for all Projects	6.000	7.000

EV 2009

Change Summary Explanation

FY2009 includes a Below Threshold Reprogramming to transfer funding for the cancelled T-38 Improved Brake System Program (IBSP) to other Air Force programs.

FY2010 includes Congressional reduction to remove funding for the T-38 IBSP and a Congressional add for an AT-6 capability demonstration for the Air National Guard (ANG).

FY2011 includes funding for the Advanced Trainer Replacement (T-X) project.

Exhibit R-2A, RDT&E Project Just	stification: Pl	3 2011 Air F	orce							DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)					I OMENCLA 3F: Specializ		aduate Pilot	PROJECT 654102: Joint Primary Aircraft Training System (JPATS)				
COST (\$ in Millions)	FY 2011					FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost	
654102: Joint Primary Aircraft Training System (JPATS)	8.216	9.281	3.724	0.000	3.724	2.316	3.846	2.338	3.790	Continuing	Continuing	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0			

A. Mission Description and Budget Item Justification

The Joint Primary Aircraft Training System (JPATS) is a joint USAF/USN venture to replace the Services' fleets of primary trainer aircraft (T-37 and T-34, respectively) and associated Ground Based Training Systems (GBTS). The aircraft and GBTS will be used to train entry-level student aviators in the fundamentals of flying so they can transition into advanced training tracks leading to qualification as military pilots, navigators, and naval flight officers. The program includes the purchase of aircraft, simulators, and other associated ground-based training devices, Training Integration Management System (TIMS), instructional courseware, and logistics support.

FY2009 includes a Congressional increase to develop, integrate and demonstrate Intelligence, Surveillance, and Reconnaissance (ISR) capabilities for the Air National Guard (ANG) using the AT-6 platform.

FY2009-FY2015 JPATS funding will be used to develop and test upgrades and enhancements to program hardware and software components.

FY2011, FY2013 and FY2015 include funding to upgrade software and threat libraries for the Simulator for Electronic Combat Technology (SECT), a generic electronic warfare simulator used to train student Combat Systems Officers (CSO). Although in the same project, SECT is unrelated to the JPATS program.

Budget Activity Justification: This program element is in Budget Activity 5, System Development and Demonstration (SDD), because it primarily involves the missionization of commercial derivative aircraft, equipment, and components.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: JPATS studies & development efforts.	2.216	2.281	2.284	0.000	2.284

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: Febr	uary 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduat Training	te Pilot	PROJECT 654102: Joint Primary Aircraft Training System (JPATS)					
B. Accomplishments/Planned Program (\$ in Millions)								
	FY	2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
FY 2009 Accomplishments: In FY 2009: JPATS studies and development activities such as weight study, Power Management Unit software upgrade, Aircrand Aircrew Training Device visual system development study								
FY 2010 Plans: In FY 2010: JPATS studies and development activities such as weight study, Power Management Unit software upgrade, Aircrand Aircrew Training Device visual system development study								
FY 2011 Base Plans: In FY 2011: JPATS studies and development activities such as weight study, Power Management Unit software upgrade, Aircrand Aircrew Training Device visual system development study								
FY 2011 OCO Plans: FY 2011 (OCO): N/A								
MAJOR THRUST: Simulator for Electronic Combat Technology (SE	ECT)	0.000	0.000	1.440	0.000	1.440		
FY 2009 Accomplishments: In FY 2009: N/A								
FY 2010 Plans: In FY 2010: N/A								
FY 2011 Base Plans: In FY 2011: Update threat database definitions and threat libra	ry							

,	ilication. 1 D	2011 Air Fo	rce						DATE: Febr	uary 2010			
APPROPRIATION/BUDGET ACTIVE 3600: Research, Development, Test BA 5: Development & Demonstration	& Evaluation	, Air Force		R-1 ITEM NO PE 0604233 <i>Training</i>			duate Pilot	PROJECT 654102: Jo (JPATS)	02: Joint Primary Aircraft Training System				
B. Accomplishments/Planned Prog	gram (\$ in M	illions)	'										
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
FY 2011 OCO Plans: In FY 2011 (OCO): N/A													
			Accomplish	ments/Plann	ed Program	s Subtotals	2.216	2.281	3.724	0.000	3.72		
							FY 2009	FY 2010]				
							6.000	7.000	-				
Congressional Add: AT-6 capability	demonstration	on for the Air	National Gu	uard									
In FY 2009: Demonstrate an In attack aircraft such as the AT-6 FY 2010 Plans: In FY 2010: Demonstrate an IS				,	, , ,	in a light							
attack aircraft such as the AT-6 FY 2010 Plans:				such as the A	, , ,	·	6.000	7.000					
attack aircraft such as the AT-6 FY 2010 Plans: In FY 2010: Demonstrate an IS	SR capability	in a light att		such as the A	AT-6	·	6.000	7.000					
attack aircraft such as the AT-6 FY 2010 Plans: In FY 2010: Demonstrate an IS C. Other Program Funding Summa	SR capability	in a light att	ack aircraft s	Such as the A Congre	AT-6 essional Add FY 2011	s Subtotals				Cost To			
attack aircraft such as the AT-6 FY 2010 Plans: In FY 2010: Demonstrate an IS C. Other Program Funding Summa	SR capability ary (\$ in Milli	in a light att ions) FY 2010	ack aircraft s FY 2011 Base	Such as the A Congre FY 2011 OCO	AT-6 essional Add FY 2011 Total	s Subtotals FY 2012	FY 2013	FY 2014		Complete			
attack aircraft such as the AT-6 FY 2010 Plans: In FY 2010: Demonstrate an IS C. Other Program Funding Summa Line Item • PE Not Provided (7229): Related Activities	SR capability ary (\$ in Milli FY 2009 0.000	in a light att	FY 2011 Base 0.000	Such as the A Congre	AT-6 essional Add FY 2011	s Subtotals			FY 2015 0.000				
attack aircraft such as the AT-6 FY 2010 Plans: In FY 2010: Demonstrate an IS C. Other Program Funding Summa Line Item PE Not Provided (7229): Related Activities PE Not Provided (7241): Aircraft	SR capability ary (\$ in Milli	in a light att ions) FY 2010	ack aircraft s FY 2011 Base	Such as the A Congre FY 2011 OCO	AT-6 essional Add FY 2011 Total	s Subtotals FY 2012	FY 2013	FY 2014		Complete	0.00		
attack aircraft such as the AT-6 FY 2010 Plans: In FY 2010: Demonstrate an IS C. Other Program Funding Summa Line Item • PE Not Provided (7229): Related Activities • PE Not Provided (7241): Aircraft Procurement, Air Force, BA-3 • PE 0804740F: Weapon System	SR capability ary (\$ in Milli FY 2009 0.000 0.000 22.852	in a light att ions) FY 2010 0.000 0.000 15.661	FY 2011 Base 0.000 0.000	Congre FY 2011 OCO 0.000	AT-6 essional Add FY 2011 Total 0.000 0.000	FY 2012 0.000 0.000	FY 2013 0.000 0.000	FY 2014 0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	Total Cos 0.000 0.000 2,452.07		
attack aircraft such as the AT-6 FY 2010 Plans: In FY 2010: Demonstrate an IS C. Other Program Funding Summa Line Item • PE Not Provided (7229): Related Activities • PE Not Provided (7241): Aircraft Procurement, Air Force, BA-3	SR capability ary (\$ in Milli FY 2009 0.000 0.000	in a light att ions) FY 2010 0.000 0.000	FY 2011 Base 0.000 0.000	Example 200 September 2011 OCO 0.000 0.000	AT-6 essional Add FY 2011 Total 0.000 0.000	FY 2012 0.000 0.000	FY 2013 0.000 0.000	FY 2014 0.000 0.000	0.000	0.000 0.000	0.00		

UNCLASSIFIED

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	654102: Jo	int Primary Aircraft Training System
BA 5: Development & Demonstration (SDD)	Training	(JPATS)	
		•	

C. Other Program Funding Summary (\$ in Millions)

	•		FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• PE 0804740F (2): Post	0.000	0.000	9.450	0.000	9.450	0.000	0.000	0.000	0.000	0.000	9.450
Production Support											
• PE 0804741F: <i>Military</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.200
Construction Air Force											
• PE 0603208N: Training System	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.300
Aircraft, H1150, JPATS											
• PE 0804745N: Weapon System	287.065	255.450	266.065	0.000	266.065	309.835	302.499	16.387	0.000	0.000	2,130.177
• PE 0804745N (3): Modifications	5.199	4.858	1.854	0.000	1.854	1.555	1.585	1.614	1.643	0.000	0.000
• PE 0804745N (4): Initial Spares	8.612	10.160	10.589	0.000	10.589	7.252	6.150	0.000	0.000	0.000	75.920
• PE 0804745N (5): <i>Military</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	120.763
Construction Navy											

D. Acquisition Strategy

JPATS was competitively awarded with the intent of maximizing the use of commercially available equipment and best commercial practices. Initially, the JPATS Program competitively awarded two contracts: a Firm Fixed Price Contractor Logistics Support (CLS) - Operations and Maintenance funds - contract and a Fixed Price Incentive Firm Target (FPIF) manufacturing development (MD)/production contract with seven options. The FY2002 (Lots 9-13) production contract for both the air vehicle and GBTS is Firm Fixed Price, FAR Part 12 (commercial). The FY2007 production follow-on contract for both the air vehicle and GBTS was awarded as a FAR Part 15 action.

The SECT upgrade effort is an Engineering Change Proposal (ECP) to the competitively awarded Firm Fixed Price Contractor Logistics Support (CLS) contract.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

Training

PROJECT

PE 0604233F: Specialized Undergraduate Pilot 654102: Joint Primary Aircraft Training System

(JPATS)

Product Development (\$ in Millions)

				FY 2	2010	FY 2 Ba	2011 ise	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JPATS	C/FPI	HBC Wichita KS	227.548	2.281	Dec 2009	2.284	Dec 2010	0.000		2.284	Continuing	Continuing	Continuing
AT-6B	MIPR	Georgia Technical Research Institute (GTRI) Atlanta GA	8.330	7.000		0.000		0.000		0.000	0.000	15.330	Continuing
SECT Upgrade	C/FFP	AAI Services Corp Hunt Valley MD	4.088	0.000		1.440	Jan 2011	0.000		1.440	Continuing	Continuing	0.000
		Subtotal	239.966	9.281		3.724		0.000		3.724			

Remarks

	Total Prior Years Cost	FY 2010		2011 Ise	FY :	2011 CO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	239.966	9.281	3.724		0.000		3.724			

Remarks

Total Prior Years Cost may include only FY 2009 data.

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: Development & Demonstration (SDD)

ARCHITEM NOMENCLATURE
PE 0604233F: Specialized Undergraduate Pilot
Training

PROJECT
654102: Joint Primary Aircraft Training System
(JPATS)

JPATS Schedule

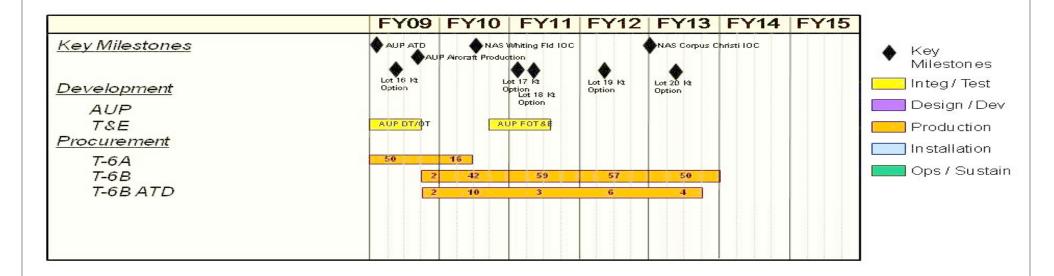


Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE : February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	654102: <i>Jo</i>	int Primary Aircraft Training System
BA 5: Development & Demonstration (SDD)	Training	(JPATS)	

Schedule Details

	St	art	End		
Event	Quarter	Year	Quarter	Year	
Continue JPATS Universal Water-Activated Release System (UWARS) Development	3	2009	3	2010	
Continue JPATS Parachute Surveillance System Development	1	2009	3	2010	
JPATS Aircrew Training Device (ATD) Visual System Development	1	2009	2	2009	
Continue JPATS Engine Studies	3	2009	4	2009	
Initiate JPATS Aviator Life Support System (ALSS) Weight Study	1	2010	2	2010	
Initiate JPATS Power Management Unit (PMU) Software Upgrade	3	2011	4	2011	
Update SECT Software and Threat Library	2	2011	4	2011	

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 6600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Pilot Training PROJE 654376 (AUP)					· -				
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	OCO Total FY 2012 FY 2013				FY 2015 Estimate	Cost To Complete	Total Cost		
654376: T-38 Avionics Upgrade Program (AUP)	3.585	1.581	1.149	0.000	1.149	1.165	1.175	1.149	1.125	Continuing	Continuing		
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0				

A. Mission Description and Budget Item Justification

The T-38 Avionics Upgrade Program (AUP) is an integrated modernization of the T-38A and AT-38B cockpits to support mission-ready fighter training and converts all T-38A and AT-38B aircraft to T-38C configuration. The modernized digital cockpit will include Global Positioning System (GPS), Heads-Up Display (HUD), Inertial Navigation System (INS), Multi-Function Displays (MFDs), Up-Front Control Panel (UFCP), Data Transfer System (DTS), No-Drop Bombing System (NDBS), and Hands-On Throttle and Stick (HOTAS) switchology. HUD symbology is the new USAF standard recently certified as a primary flight reference. Also included is the acquisition of three types of Aircrew Training Devices (ATDs) to replace the existing T-51 simulators. The program includes the design, integration, test, and installation of the cockpit prototype in aircraft, ATDs, and other training devices, as well as engineering services, studies, analysis and support to determine the feasibility of incorporating changes for purposes of making informed life-cycle cost business decisions.

FY 2009 - FY2015 funding is to develop and test aircraft and ATD hardware/software block updates, mission planning software, requirements driven by DoD, FAA and National Aerospace System (NAS) mandated changes (Crash Survivable Flight Data Recorder, Cockpit Voice Recorder, Emergency Locator Transmitter, etc.), enhancements identified during test and evaluation, Global Air Traffic Management (GATM), Joint Precision Approach and Landing System (JPALS), GPS, GPS Embedded Module (GEM) issues such as Selective Availability Anti-Spoofing Module (SAASM), and precision and GPS approaches. Other upgrades will include enhancements identified during Development Testing, Operational Testing and Force Development Evaluation (FDE), and AETC operations, such as a scratch pad, improvements to UFCP, HUD, Built In Test (BIT), mechanization of menus/modes and mission planning/debriefing system, ATD HUD projectors, and Companion Aircraft Model (CAM) operations.

FY 2009 - FY 2010 included development funding for the T-38C Improved Brake System Program (IBSP). This effort has been cancelled. Residual funding will be reprogrammed to other Air Force requirements.

Budget Activity Justification. This project is in Budget Activity 5, System Development and Demonstration (SDD), because it primarily involves the missionization of NDI or COTS equipment, and components.

B. Accomplishments/Planned Program (\$ in Millions)

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	duate Pilot	PROJECT 654376: <i>T-3</i> (AUP)	88 Avionics L	Jpgrade Pro	gram	
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: T-38 Avionics Upgrade Program (AUP) block softw	are upgrades	1.568	1.581	1.149	0.000	1.149
FY 2009 Accomplishments: In FY 2009: Develop and test Block 8 AUP aircraft and ATD hards planning software, requirements driven by DoD/ FAA/NAS mandat during Test and Evaluation and AETC operations.						
FY 2010 Plans: In FY 2010: Develop and test Block 9 AUP aircraft and ATD hardy planning software, requirements driven by DoD/ FAA/NAS mandat during Test and Evaluation and AETC operations. Block 9 is not s FY2012, due to 2 year block upgrade cycle vs. 1 year cycle.	es, and/or improvements identified					
FY 2011 Base Plans: In FY 2011: Continue development and test of Block 9 AUP aircra upgrades, mission planning software, requirements driven by DoD improvements identified during Test and Evaluation and AETC open	/ FAA/NAS mandates, and/or					
FY 2011 OCO Plans: In FY 2011 (OCO): N/A						
MAJOR THRUST: T-38 Improved Brake System Program (IBSP)		2.017	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: In FY 2009: The T-38 IBSP was cancelled. Residual funding will requirements	be reprogrammed to other Air Force					
FY 2010 Plans: In FY 2010: N/A						

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force **DATE:** February 2010 **PROJECT** APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0604233F: Specialized Undergraduate Pilot | 654376: T-38 Avionics Upgrade Program BA 5: Development & Demonstration (SDD) Training (AUP)

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: In FY 2011: N/A					
FY 2011 OCO Plans: In FY 2011 (OCO): N/A					
Accomplishments/Planned Programs Subtotals	3.585	1.581	1.149	0.000	1.149

C. Other Program Funding Summary (\$ in Millions)

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• PE 0804741F: <i>T-38 Improved</i>	1.686	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Brakes											

D. Acquisition Strategy

The T-38C AUP competitively awarded three contracts: a) a cost plus award fee EMD contract with six firm fixed price production options; b) a firm fixed price CLS contract for avionics including Contractor Owned and Maintained Base Supply (COMBS) (O&M funds); and c) a fixed price award fee maintenance contract for the current and new Aircrew Training Devices (ATDs). During FY2004 new firm fixed priced contracts were negotiated to complete the AUP modification and pricing was negotiated for the period FY2005-2008 for the CLS contract, subsequently pricing was solicited for FY09 T-38C CLS requirements. FY2005-2010 block updates are being executed under the new contract.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604233F: Specialized Undergraduate Pilot 654376: T-38 Avionics Upgrade Program

Training

PROJECT

(AUP)

Product Development (\$ in Millions)

•	•	•											
				FY 2010		FY 2011 Base		FY 2011 OCO					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Avionics Upgrade Program (AUP)	C/CPAF	The Boeing Corporation St. Louis MO	1.568	1.581		1.149		0.000		1.149	Continuing	Continuing	Continuing
Improved Brake System Program (IBSP)	TBD/TBD	TBD TBD	2.017	0.000		0.000		0.000		0.000	0.000	2.017	Continuing
		Subtotal	3.585	1.581		1.149		0.000		1.149			

Remarks

	Total Prior Years Cost	FY 2010		2011 Ise	FY 2	-	FY 2011 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	3.585	1.581	1.149		0.000		1.149			

Remarks

Total Prior Years Cost may include only FY 2009 data.

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE
PE 0604233F: Specialized Undergraduate Pilot
Training

PROJECT
654376: T-38 Avionics Upgrade Program
(AUP)

T-38 Avionics Upgrade Program (AUP) Schedule

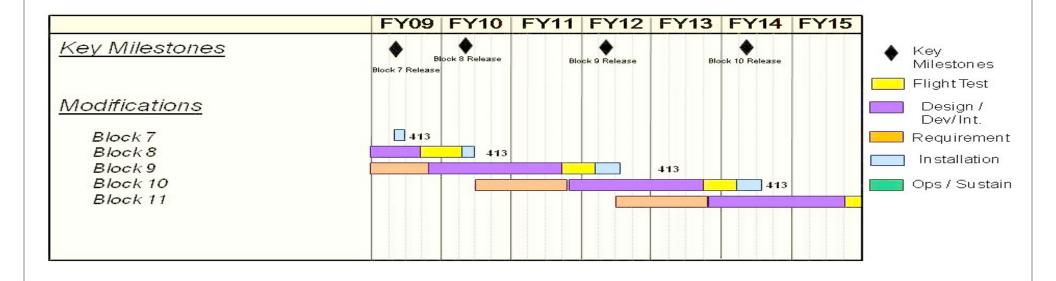


Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force	DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	654376: <i>T-</i>	38 Avionics Upgrade Program
BA 5: Development & Demonstration (SDD)	Training	(AUP)	

Schedule Details

	St	art	End		
Event	Quarter	Year	Quarter	Year	
AUP Block 7 Retrofit and Release	2	2009	2	2009	
AUP Block 8 Implementation	1	2009	3	2009	
AUP Block 8 Flight Test	3	2009	2	2010	
AUP Block 8 Retrofit and Release	2	2010	2	2010	
AUP Block 9 Implementation	4	2009	3	2011	
AUP Block 9 Flight Test	3	2011	4	2011	

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force											
APPROPRIATION/BUDGET ACTIV 3600: Research, Development, Test BA 5: Development & Demonstration	et & Evaluation, Air Force PE 0604233F: Specialized Undergraduate Pilo				PROJECT Pilot 655340: Advanced Trainer Replacement T-X						
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	Base OCO Total FY 2012 FY 2013				FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
655340: Advanced Trainer Replacement T-X	0.000	0.000	3.193	0.000	3.193	4.929	6.068	7.580	8.310	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Advanced Trainer Replacement, T-X, will replace the USAF T-38 aircraft and associated Ground Based Training System (GBTS) currently used in the fighter/bomber advanced Specialized Undergraduate Pilot Training (SUPT) track as well as in the Introduction to Fighter Fundamentals (IFF) program. The T-38 was first introduced in 1961 and is currently projected to begin phase out by 2017.

This is a new start in FY2011.

FY2011 plans include completion of Material Solution Analysis, Milestone A, and initiation of competitive prototyping activities.

Budget Activity Justification. This project is in Budget Activity 5, System Development and Demonstration (SDD), because it primarily involves the missionization of essentially non-developmental aircraft, equipment, and components.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Perform preliminary activities to acquire a replacement for the T-38 advanced trainer aircraft and Ground Based Training System	0.000	0.000	3.193	0.000	3.193
FY 2009 Accomplishments: In FY 2009: N/A					
FY 2010 Plans: In FY 2010: N/A					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	655340: Ac	Ivanced Trainer Replacement T-X
BA 5: Development & Demonstration (SDD)	Training		

B. Accomplishments/Planned Program (\$ in Millions)

FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: In FY 2011: Complete Material Solutions Analysis, Milestone A and initiation of competitive prototyping activities				
FY 2011 OCO Plans: In FY 2011 (OCO): N/A				
Accomplishments/Planned Programs Subtotals 0.000	0.000	3.193	0.000	3.193

C. Other Program Funding Summary (\$ in Millions)

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	<u>Base</u>	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
PE 0804741F: Operations and	0.000	1.500	1.500	0.000	1.500	1.500	0.000	0.000	0.000	0.000	0.000
Maintenance, Air Force											

D. Acquisition Strategy

A full and open competitive source selection is anticipated with a specific acquisition strategy to be determined.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

3600: Research, Development, Test & Evaluation, Air Force

PE 0604233F: Specialized Undergraduate Pilot | 655340: Advanced Trainer Replacement T-X

BA 5: Development & Demonstration (SDD)

Training

Product Development (\$ in Millions)

-	•	•											
			FY 2010			FY 2011 FY 2011 Base OCO		FY 2011 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office	C/TBD	Aeronautical Systems Center (ASC) WPAFB OH	0.000	0.000		3.193		0.000		3.193	Continuing	Continuing	Continuing
		Subtotal	0.000	0.000		3.193		0.000		3.193			

Remarks

	Total Prior Years Cost	FY 2010	FY 2	2011 Ise	FY 2	-	FY 2011 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000	3.193		0.000		3.193			

Remarks

Total Prior Years Cost may include only FY 2009 data.

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE
PE 0604233F: Specialized Undergraduate Pilot Training

PROJECT
655340: Advanced Trainer Replacement T-X
Training

Advanced Trainer Replacement (T-X) Schedule

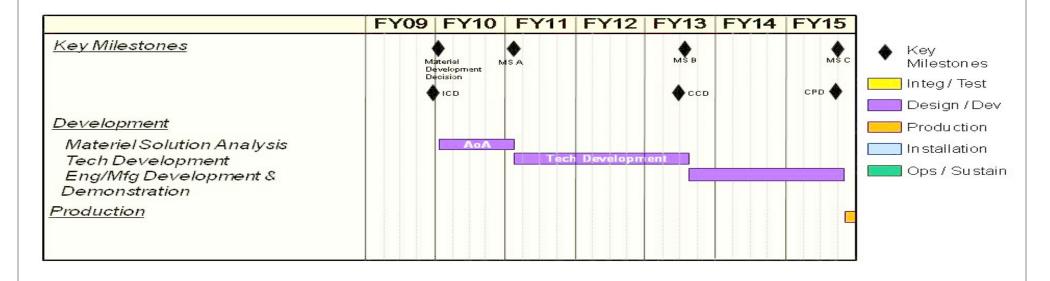


Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	655340: Ad	Ivanced Trainer Replacement T-X
BA 5: Development & Demonstration (SDD)	Training		

Schedule Details

	St	art	End		
Event	Quarter	Year	Quarter	Year	
Complete Initial Capabilities Document (ICD)	4	2009	4	2009	
Material Development Decision	1	2010	1	2010	
Complete Analysis of Alternatives	1	2011	1	2011	
Complete Material Solution Analysis	1	2011	1	2011	
Milestone A	1	2011	1	2011	