Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force

R-1 ITEM NOMENCLATURE

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

PE 0604233F: Specialized Undergraduate Pilot Training

DATE: February 2011

BA 5: Development & Demonstration (SDD)

APPROPRIATION/BUDGET ACTIVITY

,	,										
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	9.900	8.066	21.780	-	21.780	62.662	126.730	84.349	32.190	Continuing	Continuing
654102: Joint Primary Aircraft Training System (JPATS)	8.444	3.724	4.720	-	4.720	3.829	2.327	3.772	2.360	Continuing	Continuing
654376: T-38 Avionics Upgrade Program (AUP)	1.456	1.149	1.151	-	1.151	1.146	1.123	1.100	1.112	Continuing	Continuing
655340: Advanced Trainer Replacement T-X	-	3.193	15.909	-	15.909	57.687	123.280	79.477	28.718	Continuing	Continuing

A. Mission Description and Budget Item Justification

Totals include funding for PRCP program number 560, JPATS.

JPATS Prior Years funding estimate is \$271.9M. To Complete estimate is \$8.8M.

Prior Years and To Complete funding estimates are for the MDAP program and may differ from weapon system funding totals.

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 their associated Ground Based Training Systems (GBTS) with the T-6 and its 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 replacement for the T-38 trainer aircraft used in the advanced fighter/bomber SUPT track.

Provides for development and test of upgrades and enhancements to aircraft and the Ground Based Training System (GBTS) hardware and software components.

Provides for studies and development of the next generation of advanced fighter/bomber pilot trainer aircraft and GBTS.

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.077M in FY12.

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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force		DATE: February 2011
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	

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	9.900	8.066	8.410	-	8.410
Current President's Budget	9.900	8.066	21.780	-	21.780
Total Adjustments	-	-	13.370	-	13.370
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	-			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
Other Adjustments	-	-	13.370	-	13.370

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

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

Congressional Add: AT-6B ISR

	FY 2010	FY 2011
	7.000	-
Congressional Add Subtotals for Project: 654102	7.000	-
Congressional Add Totals for all Projects	7.000	-

Change Summary Explanation

FY2012 includes an increase in funding to allow the Advanced Trainer Replacement (T-X) project to complete Material Solution Analysis and begin Engineering and Manufacturing Development activities.

Exhibit R-2A, RDT&E Project Jus		DATE: February 2011									
APPROPRIATION/BUDGET ACTIV 3600: Research, Development, Tes BA 5: Development & Demonstration	R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Pilot Training PROJECT 654102: Joi (JPATS)					int Primary Aircraft Training System					
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
654102: Joint Primary Aircraft Training System (JPATS)	8.444	3.724	4.720	-	4.720	3.829	2.327	3.772	2.360	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Totals include funding for PRCP program number 560, JPATS.

JPATS Prior Years funding estimate is \$271.9M. To Complete estimate is \$8.8M.

Prior Years and To Complete funding estimates are for the MDAP program and may differ from weapon system funding totals.

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 T-6 aircraft and GBTS are 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, combat systems officers, 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. FY2010 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. The AT-6 ISR effort is unrelated to the JPATS program. FY2010-FY2016 JPATS funding will be used to develop and test upgrades and enhancements to 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. 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 Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: JPATS	1.444	2.284	4.720	-	4.720
Description: JPATS studies & development efforts					
FY 2010 Accomplishments:					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			D	ATE: Febru	ary 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergradua Training	ate Pilot 65	ROJECT 64102: Joint PATS)	Primary Air	craft Trainii	ng System
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
JPATS studies and development activities such as parachute surv Life Support System Integration, and Aircrew Training Device visus						
FY 2011 Plans: JPATS studies and development activities such as parachute surv Life Support System Integration, and Aircrew Training Device visus						
FY 2012 Base Plans: JPATS studies and development activities. FY2012 specifically wi Management Unit (PMU) software upgrade.	Il include development of a T-6 Power					
FY 2012 OCO Plans:						
Title: SECT		_	1.440	-	-	-
Description: Simulator for Electronic Combat Technology (SECT)						
FY 2010 Accomplishments:						
FY 2011 Plans: Update threat database definitions and threat library						
FY 2012 Base Plans:						
FY 2012 OCO Plans:						
Acc	omplishments/Planned Programs Subtotals	1.444	3.724	4.720	-	4.720
		FY 2010	FY 2011			
Congressional Add: AT-6B ISR		7.000	-			
FY 2010 Accomplishments: Demonstrate an ISR capability in a FY 2011 Plans:	light attack aircraft such as the AT-6					
	Congressional Adds Subtotals	7.000	_			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	654102: <i>Joi</i>	int Primary Aircraft Training System
BA 5: Development & Demonstration (SDD)	Training	(JPATS)	

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

		,	FY 2012	FY 2012	FY 2012				Co	ost To
<u>Line Item</u>	FY 2010	FY 2011	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016 Com	plete Total Cost
Related: Activities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 Conti	nuing Continuing
• PE 0804740F: <i>JPATS, APAF BA</i>	12.663	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 Conti	nuing Continuing
3										
• PE 0804740F (2): <i>JPATS, APAF</i>	2.507	0.457	1.921	0.000	1.921	0.023	0.823	0.827	0.831 Conti	nuing Continuing
BA 6										
• PE 0804740: <i>JPATS, APAF BA 5</i>	23.582	24.644	15.086	0.000	15.086	16.312	10.630	12.918	13.161 Conti	nuing Continuing
• PE 0804740F (4): <i>JPATS, APAF</i>	0.000	9.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000 Conti	nuing Continuing
BA 7										
• PE 0804741F: <i>MILCON AF</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 Conti	nuing Continuing
PE 0603208N: Training System	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 Conti	nuing Continuing
Aircraft, H1150, JPATS										
• PE 0804745N: <i>APN BA 3</i>	255.443	266.065	266.906	0.000	266.906	230.366	15.492	0.000	0.000 Conti	nuing Continuing
• PE 0804745N (8): <i>APN BA 5</i>	3.013	1.831	1.533	0.000	1.533	1.560	1.586	1.614	1.614 Conti	nuing Continuing
• PE 0804745N (9): APN BA 6	11.254	10.589	7.285	0.000	7.285	7.622	0.000	0.000	0.000 Conti	nuing Continuing
• PE 0804745N (10): <i>MILCON N</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 Conti	nuing Continuing

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 funded 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. JPATS development efforts are included in annual Fixed Price Incentive (FPI) options to the production contract.

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.

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					NOLAGO								
Exhibit R-3, RDT&E Pr	oject Cost	Analysis: PB 2012 A	ir Force							DATI	E: Februar	y 2011	
APPROPRIATION/BUD 3600: <i>Research, Develo</i> BA 5: <i>Development & D</i>	pment, Tes	t & Evaluation, Air Fo	rce	PE	ITEM NON 0604233F: ining			aduate Pilo	PROJ 65410 (<i>JPAT</i>	2: Joint Pri	mary Aircr	aft Training	g System
Product Development	(\$ in Millio	ns)		FY:	2011	FY 2 Ba	-	FY 20		FY 2012 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/TBD	HBC:Wichita, KS	273.344	2.284	Dec 2010	4.720	Dec 2011	-		4.720	Continuing	Continuing	ТВ
AT-6B	MIPR	GeorgiaTechnical Research Institute:Atlanta, GA	15.310	-		-		-		-	0.000	15.310	ТВ
SECT Upgrade	C/FFP	AAI Services Corp:Hunt Valley, MD	-	1.440	Jan 2011	-		-		-	Continuing	Continuing	0.00
	•	Subtotal	288.654	3.724		4.720		-		4.720			
Support (\$ in Millions)				FY:	2011	FY 2 Ba	-	FY 20		FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.00
Test and Evaluation (\$	in Millions	3)		FY:	2011	FY 2 Ba	-	FY 20		FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.00
Management Services	(\$ in Millio	ons)		FY	2011	FY 2 Ba		FY 20		FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.00
			Total Prior Years Cost	FY	2011	FY 2 Ba	-	FY 20 OC		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	288.654	3.724		4.720		_		4.720			

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PPROPRIATION/BUDGET ACTIVITY 600: Research, Development, Test & Evaluation, Air Force A 5: Development & Demonstration (SDD)	PE 0604233F	MENCLATURE Specialized Underg		PROJECT			
r (e. 2010) opinom a 20monetiation (e22)	Training	,	graduate Pilot	654102: Joint Pri (JPATS)	imary Aircr	aft Training	ı System
Total Pr Years Cost	s	FY 2012 Base	FY 2012 OCO	2 FY 2012 Total	Cost To	Total Cost	Target Value of Contrac
emarks	F1 2011	Dase	000	Total	Complete	Total Cost	Cont

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot		int Primary Aircraft Training Systen
BA 5: Development & Demonstration (SDD)	Training	(JPATS)	
		1	

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	654102: <i>Joi</i>	int Primary Aircraft Training System
BA 5: Development & Demonstration (SDD)	Training	(JPATS)	

Schedule Details

	Sta	art	End		
Events	Quarter	Year	Quarter	Year	
Complete JPATS Universal Water-Activated Release System (UWARS) Development	1	2010	3	2010	
Complete JPATS Aircrew Training Device (ATD) Visual System Development	1	2010	2	2010	
JPATS Parachute Surveillance System Development	1	2010	3	2012	
JPATS Engine Studies	1	2010	4	2011	
JPATS Initial Operational Capability (IOC) NAS Whiting Field	3	2010	3	2010	
Award JPATS Lot 17-18 Contract Options	2	2011	2	2011	
JPATS Power Management Unit (PMU) Software Upgrade	4	2011	4	2013	
Award JPATS Lot 19 Contract Option	2	2012	2	2012	
JPATS Arm Handle Development	2	2012	4	2013	
JPATS IOC NAS Corpus Christi	1	2013	1	2013	
Award JPATS Lot 20 Contract Option	2	2013	2	2013	
Complete USAF T-6A Deliveries	1	2010	3	2010	
Continue USN T-6B Deliveries	1	2010	1	2016	
Continue USN T-6B Aircrew Training Device (ATD) Deliveries	1	2010	4	2013	
Jpdate SECT Software and Threat Library (FY2011)	3	2011	1	2012	
Jpdate SECT Software and Threat Library (FY2013)	3	2013	1	2014	
Jpdate SECT Software and Threat Library (FY2015)	3	2015	1	2016	

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DATE: February 2011

APPROPRIATION/BUDGET ACTI 3600: Research, Development, Tes BA 5: Development & Demonstration	st & Evaluatio	n, Air Force			I OMENCLA 1 3F: <i>Specializ</i>			PROJECT 654376: <i>T-</i> 3	38 Avionics l	Jpgrade Pro	gram (AUP)
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
654376: T-38 Avionics Upgrade Program (AUP)	1.456	1.149	1.151	-	1.151	1.146	1.123	1.100	1.112	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

The T-38C Avionics Upgrade Program (AUP) requires regular block upgrades to incorporate software and hardware improvements and new requirements into both the aircraft and Aircrew Training Devices (ATD). This effort also includes support to obtain Joint Mission Planning System (JMPS) certification associated with each block upgrade. The T-38C avionics program is beginning development for Automatic Dependent Surveillance - Broadcast (ADS-B), an FAA mandated system modification. Further, engineering services, studies, analysis and support to determine the feasibility of incorporating changes for making informed lifecycle cost business decisions based on Diminishing Manufacturing Resources and Material Shortages (DMSMS).

Insufficient funding of the T-38C AUP program will negatively affect the Undergraduate Pilot Training (UPT), Introduction to Fighter Fundamentals (IFF) and Euro-NATO Joint Jet Pilot Training (ENJJPT) pilot training programs. A decrease in required funding will increase DMSMS risks and possibly increase future cost to mitigate unknown risks and reduce mission effectiveness.

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.

The program funding includes reductions for Overhead Reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.010M in FY12.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: T-38 AUP	1.456	1.149	1.151	-	1.151
Description: T-38 Avionics Upgrade Program (AUP) block software upgrades					
FY 2010 Accomplishments: Develop and test Block 9 AUP aircraft and ATD hardware/software upgrades, mission planning software, requirements driven by DoD/ FAA/NAS mandates, and/or improvements identified during Test and Evaluation and AETC operations. Block 9 is not scheduled to be complete until FY2012, due to 2 year block upgrade cycle vs. 1 year cycle.					
FY 2011 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	654376: <i>T-</i> 3	38 Avionics Upgrade Program (AUP)
BA 5: Development & Demonstration (SDD)	Training		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Continue development and test of Block 9 AUP aircraft and ATD hardware/software upgrades, mission planning software, requirements driven by DoD/FAA/NAS mandates, and/or improvements identified during Test and Evaluation and AETC operations.					
FY 2012 Base Plans: Complete development and test of Block 9 aircraft and Aircrew Training Device (ATD) hardware/software upgrades and JMPS software. Design and develop Block 10 software/hardware upgrades, JMPS software. Design and develop software and/or hardware solutions for requirements driven by DoD and FAA/NAS mandates, and/or improvements identified during test and evaluation and AETC operations. Provide for travel and support costs related to block upgrade activities.					
FY 2012 OCO Plans:					
Accomplishments/Planned Programs Subtotals	1.456	1.149	1.151	-	1.151

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

•	•		FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
• N/A:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

T-38 AUP block updates are cost plus award fee options executed under a contract negotiated in FY2004.

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.

				U	NCLASS								
Exhibit R-3, RDT&E Pro	oject Cost	Analysis: PB 2012 A	ir Force							DAT	E: Februar	y 2011	
APPROPRIATION/BUD 3600: <i>Research, Develo</i> BA 5: <i>Development & Development & Develo</i>	pment, Tes	t & Evaluation, Air Fo	rce	PE	ITEM NON 0604233F: ning		_	raduate Pilo	PROJ 65437	ECT 6: <i>T-38 Avi</i>	ionics Upg	rade Progr	am (AUP)
Product Development	(\$ in Millio	ns)		FY 2	2011	FY 2 Ba	-	FY 2		FY 2012 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	Total Cost	Target Value of Contract
Avionics Upgrade Program (AUP)	C/CPAF	The Boeing Corporation:St. Louis, MO	84.015	0.765	Feb 2011	0.503	Oct 2011	-		0.503	Continuing	Continuing	TBD
		Subtotal	84.015	0.765		0.503		-		0.503			
Support (\$ in Millions)				FY 2	2011	FY 2 Ba	-	FY 2 OC		FY 2012 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	Total Cost	Target Value of Contract
A&AS	C/CPAF	Not specified.:,	7.650	0.151		0.155		-		0.155	0.000	7.956	0.000
JMPS Support	C/FFP	Not specified.:,	0.220	0.022		0.023		-		0.023	0.000	0.265	0.000
		Subtotal	7.870	0.173		0.178		-		0.178	0.000	8.221	0.000
Test and Evaluation (\$	in Millions	6)		FY 2	2011	FY 2 Ba		FY 2		FY 2012 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
Not specified.	C/CPAF	TBD:,	-	0.141		0.400		-		0.400		0.541	0.000
		Subtotal	-	0.141		0.400		-		0.400	0.000	0.541	0.000
Management Services	(\$ in Millio	ons)		FY 2	2011	FY 2 Ba		FY 2 OC		FY 2012 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
Travel	Various	Not specified.:,	1.050	0.070		0.070		-		0.070	0.000	1.190	0.000
		Subtotal	1.050	0.070		0.070		-		0.070	0.000	1.190	0.000
			Total Prior Years Cost	FY2	2011	FY 2 Ba		FY 2 OC		FY 2012 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	92.935	1.149		1.151		-		1.151			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012	Air Force				DAT	E: Februar	y 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air F BA 5: Development & Demonstration (SDD)	orce		MENCLATURE : Specialized Underg	raduate Pilot	PROJECT 654376: <i>T-38 Av</i>	ionics Upg	rade Progr	am (AU
	Total Prior Years Cost	FY 2011	FY 2012 Base	FY 2012 OCO	2 FY 2012 Total	Cost To Complete	Total Cost	Target Value o Contrac
Remarks								

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force					
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
B600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	PE 0604233F: Specialized Undergraduate Pilot Training	654376: T-38 Avionics Upgrade Program (AU			

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	654376: <i>T-</i> 3	38 Avionics Upgrade Program (AUP)
BA 5: Development & Demonstration (SDD)	Training		

Schedule Details

	Sta	art	End		
Events	Quarter	Year	Quarter	Year	
AUP Block 8 Design/Development	1	2010	2	2010	
AUP Block 8 Integration/Flight Test	2	2010	4	2010	
AUP Block 8 Fielding	4	2010	1	2011	
AUP Block 8 Release	1	2011	1	2011	
AUP Block 9 Design/Development	2	2010	1	2012	
AUP Block 8 Release (1)	1	2011	1	2011	
AUP Block 9 Fielding	4	2012	4	2012	
AUP Block 9 Release	4	2012	4	2012	
AUP Block 10 Requirements	4	2010	2	2012	
AUP Block 10 Design/Development	3	2012	2	2014	
AUP Block 10 Integration/Flight Test	2	2014	1	2015	
AUP Block 10 Fielding	1	2015	2	2015	
AUP Block 10 Release	1	2015	1	2015	
AUP Block 11 Requirements	2	2013	3	2014	
AUP Block 11 Design/Development	3	2014	3	2016	
AUP Block 11 Integration/Flight Test	2	2016	4	2016	
AUP Block 11 Fielding	2	2016	2	2016	
AUP Block11 Release	4	2016	4	2016	
AUP Block 11 Release	4	2016	4	2016	

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DATE: February 2011

APPROPRIATION/BUDGET ACTIV 3600: Research, Development, Test BA 5: Development & Demonstration	& Evaluatio	n, Air Force		R-1 ITEM N PE 0604233 Training		TURE zed Undergra		PROJECT 655340: <i>Ad</i>	lvanced Trair	ner Replacer	ment T-X
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
655340: Advanced Trainer Replacement T-X	-	3.193	15.909	-	15.909	57.687	123.280	79.477	28.718	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

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 in 2017. FY2012 plans include completion of concept development activities and initiation of the Technology Development phase.

The program funding includes reductions for overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.067M in FY12.

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 Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Advanced Pilot Training (APT) Family of Systems (FoS)	-	3.193	15.909	-	15.909
Description: Perform preliminary activities to acquire a replacement for the T-38 advanced trainer aircraft and Ground Based Training System (GBTS)					
FY 2010 Accomplishments:					
FY 2011 Plans: Conduct studies and analysis of T-X concepts.					
FY 2012 Base Plans: Complete studies and analysis of T-X concepts and initiate the Technology Development phase to include actions necessary for a competitive prototyping source selection.					
FY 2012 OCO Plans:					
Accomplishments/Planned Programs Subtotals	-	3.193	15.909	_	15.909

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE : February 2011
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	

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

			FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	<u>Base</u>	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
• PE 0804741F: <i>O&M AF</i>	1.500	1.500	1.500	0.000	1.500	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

A full and open competitive source selection is anticipated for Technology Development 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 Pr	oject Cost	Analysis: PB 2012 A	ir Force							DATI	E: Februar	y 2011	
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								ent T-X
Product Development	(\$ in Millio	ns)		FY 2	011	FY 2 Bas	-	FY 20		FY 2012 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
Competitive Prototyping	C/TBD	TBD:TBD,	-	-		12.000	May 2012	-		12.000	Continuing	Continuing	TB
		Subtotal	-	-		12.000		-		12.000			
Support (\$ in Millions)				FY 2	011	FY 2 Bas	-	FY 20		FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.00
Test and Evaluation (\$	in Millions	s)		FY 2	011	FY 2 Bas	-	FY 20		FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.00
Management Services	(\$ in Millio	ons)		FY 2	011	FY 2		FY 20		FY 2012 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	ASC:Wright-Patterson AFB, OH	-	3.193		3.909		-		3.909	Continuing	Continuing	ТВ
		Subtotal	-	3.193		3.909		-		3.909			
			Total Prior Years Cost	FY 2	011	FY 2 Bas		FY 20		FY 2012 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals		3.193		15.909				15.909			

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force						
R-1 ITEM NOMENCLATURE	PROJECT DATE: February 2011					
	655340: Advanced Trainer Replacement T-X					
Iraining						
	R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Pilot Training					

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0604233F: Specialized Undergraduate Pilot	655340: Ad	vanced Trainer Replacement T-X
BA 5: Development & Demonstration (SDD)	Training		

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Initial Capabilities Document (ICD) Approved	1	2010	1	2010	
Material Development Decision	2	2010	2	2010	
Complete Analysis of Alternatives	2	2011	2	2011	
In-Process Review (IPR) Defense Acquisition Board (DAB)	3	2011	3	2011	
Material Solution Analysis	2	2010	2	2012	
Milestone A	2	2012	2	2012	
Technology Development	2	2012	3	2013	
Capability Development Document (CDD) Approval	3	2013	3	2013	
Milestone B	3	2013	3	2013	
Engineering and Manufacturing Development	3	2013	4	2016	
Capability Production Document (CPD) Approval	3	2016	3	2016	
Milestone C	4	2016	4	2016	