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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Flight Training							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	19.725	6.583	3.601	-	3.601	10.957	9.008	8.426	13.742	Continuing	Continuing
654102: Joint Primary Aircraft Training System (JPATS)	-	4.578	3.836	2.327	-	2.327	4.195	2.598	2.430	2.474	Continuing	Continuing
654376: T-38 Avionics Upgrade Program (AUP)	-	1.232	1.146	0.225	-	0.225	2.158	1.653	1.144	1.164	Continuing	Continuing
655340: Advanced Trainer Replacement T-X	-	13.915	1.601	1.049	-	1.049	4.604	4.757	4.852	10.104	Continuing	Continuing
MDAP/MAIS Code(s): 436,560												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
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 their associated Ground Based Training Systems (GBTS) with the T-6 and its GBTS. The Air Force is the Executive Service. The T-38 Avionics Upgrade Program (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, will replace AETC's T-38C aircraft and associated GBTS currently used in the fighter/bomber advanced SUPT track as well as in the Introduction to Fighter Fundamentals (IFF) program. The T-38 was first introduced in 1961.												
This program element is in Budget Activity 5, System Development and Demonstration (SDD), because it primarily involves the adaptation of commercial derivative and essentially non-developmental aircraft, equipment, and components for military purpose.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0604233F: Specialized Undergraduate Flight Training			
BA 5: System Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	21.780	6.583	9.209	-	9.209
Current President's Budget	19.725	6.583	3.601	-	3.601
Total Adjustments	-2.055	0.000	-5.608	-	-5.608
• 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	-1.400	0.000			
• SBIR/STTR Transfer	-0.655	0.000			
• Other Adjustments	0.000	0.000	-5.608	-	-5.608
Change Summary Explanation					
FY2012 includes a Below Threshold Reprogramming (BTR) to support a higher Air Force priority. FY2014 includes reductions in funding for both the Advanced Trainer Replacement, the requirement for which has been deferred, and the T-38 Avionics Upgrade Program (AUP).					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Flight Training				PROJECT 654102: Joint Primary Aircraft Training System (JPATS)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
654102: Joint Primary Aircraft Training System (JPATS)	-	4.578	3.836	2.327	-	2.327	4.195	2.598	2.430	2.474	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
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). Additionally the US Army will be purchasing four T-6 Army Variant aircraft to replace the T-34 aircraft for the Army Test and Evaluation Command. 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 to include Diminishing Manufacturing Sources and Material Shortages (DMSMS) and development activities related to DMSMS. In FY2014, JPATS funding will be used to develop and test upgrades and enhancements to hardware and software components.												
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.												
This program element is in Budget Activity 5, System Development and Demonstration (SDD), because it primarily involves the adaptation of commercial derivative aircraft, equipment, and components for military purpose.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: JPATS									4.578	2.340	2.327	
Description: JPATS studies & development efforts												
FY 2012 Accomplishments: JPATS studies and development activities to include safe/arm handle development and Engine Accelerated Mission Testing.												
FY 2013 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Flight Training				PROJECT 654102: Joint Primary Aircraft Training System (JPATS)			
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014
JPATS studies and development activities to include development of the T-6 Power Management Unit (PMU) software upgrade, parachute surveillance study, safe/arm handle development, Engine High Cycle Fatigue Research, and Engine Component Improvement Program (CIP) study.											
FY 2014 Plans: JPATS studies and development activities include development of the T-6 Power Management Unit (PMU) software upgrade, parachute surveillance study, safe/arm handle development, Engine High Cycle Fatigue Research, and Engine Component Improvement Program (CIP) study.											
Title: SECT Description: Simulator for Electronic Combat Technology (SECT) FY 2012 Accomplishments: N/A FY 2013 Plans: Update threat database definitions and threat library. FY 2014 Plans: N/A									0.000	1.496	0.000
Accomplishments/Planned Programs Subtotals									4.578	3.836	2.327
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• APAF: BA06: Line Item # 000999: Initial Spares/Repair Parts	1.944	0.021	0.626		0.626	0.957	0.926	0.861	0.876	Continuing	Continuing
• APAF: BA05: Line Item # JPAT00: T-6	15.826	15.494	6.427		6.427	14.631	14.240	13.632	13.877	Continuing	Continuing
• APN: BA03: Line Item # 033900: JPATS	234.900	278.884	249.080		249.080	16.886	0.000	0.000	0.000	0.000	2,036.997
• APN: BA05: Line Item # 057100: JPATS Series	0.524	1.552	1.576		1.576	1.603	1.646	1.674	1.704	Continuing	Continuing
• APN: BA06: Line Item # 060500: Spares and Repair Parts	1.717	7.434	2.610		2.610	0.000	0.000	0.000	0.000	Continuing	Continuing

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>					R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>			PROJECT 654102: <i>Joint Primary Aircraft Training System (JPATS)</i>			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• APA: BA01: Line Item # A11300: <i>Utility F/W Aircraft</i>	0.000	16.159	13.760		13.760	0.000	0.000	0.000	0.000	Continuing	Continuing
Remarks											
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 (FFP) 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. In FY2012 a new FFP CLS Operations and Maintenance funded contract 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.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Flight Training						PROJECT 654102: Joint Primary Aircraft Training System (JPATS)			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JPATS Engine CIP	PO	Arnold Engineering Development Center:Arnold AFB, TN	-	3.454	Mar 2012	1.505	May 2013	0.717	Jan 2014	-		0.717	0.000	5.676	5.676
Engine High Cycle Fatigue	C/CPFF	Universal Technology Corp:Dayton, OH	-	0.140	Feb 2012	0.194	Apr 2013	0.149	Apr 2014	-		0.149	Continuing	Continuing	TBD
Parachute Surveillance	C/FFP	Martin Baker Aircraft Co LTD:, UK	-	0.000		0.641	Jun 2013	0.452	Apr 2014	-		0.452	0.000	1.093	2.589
JPATS Other	Various	Various:Various,	-	0.984	Feb 2012	0.000		1.009	Dec 2013	-		1.009	Continuing	Continuing	TBD
SECT Upgrade	C/FFP	BowHead Systems Management, Inc.:King George, VA	-	0.000		1.496	Dec 2012	0.000		-		0.000	Continuing	Continuing	
Subtotal			0.000	4.578		3.836		2.327		0.000		2.327			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>				PROJECT 654102: <i>Joint Primary Aircraft Training System (JPATS)</i>				

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000		0.000	0.000	0.000

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	4.578	3.836	2.327	0.000	2.327			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

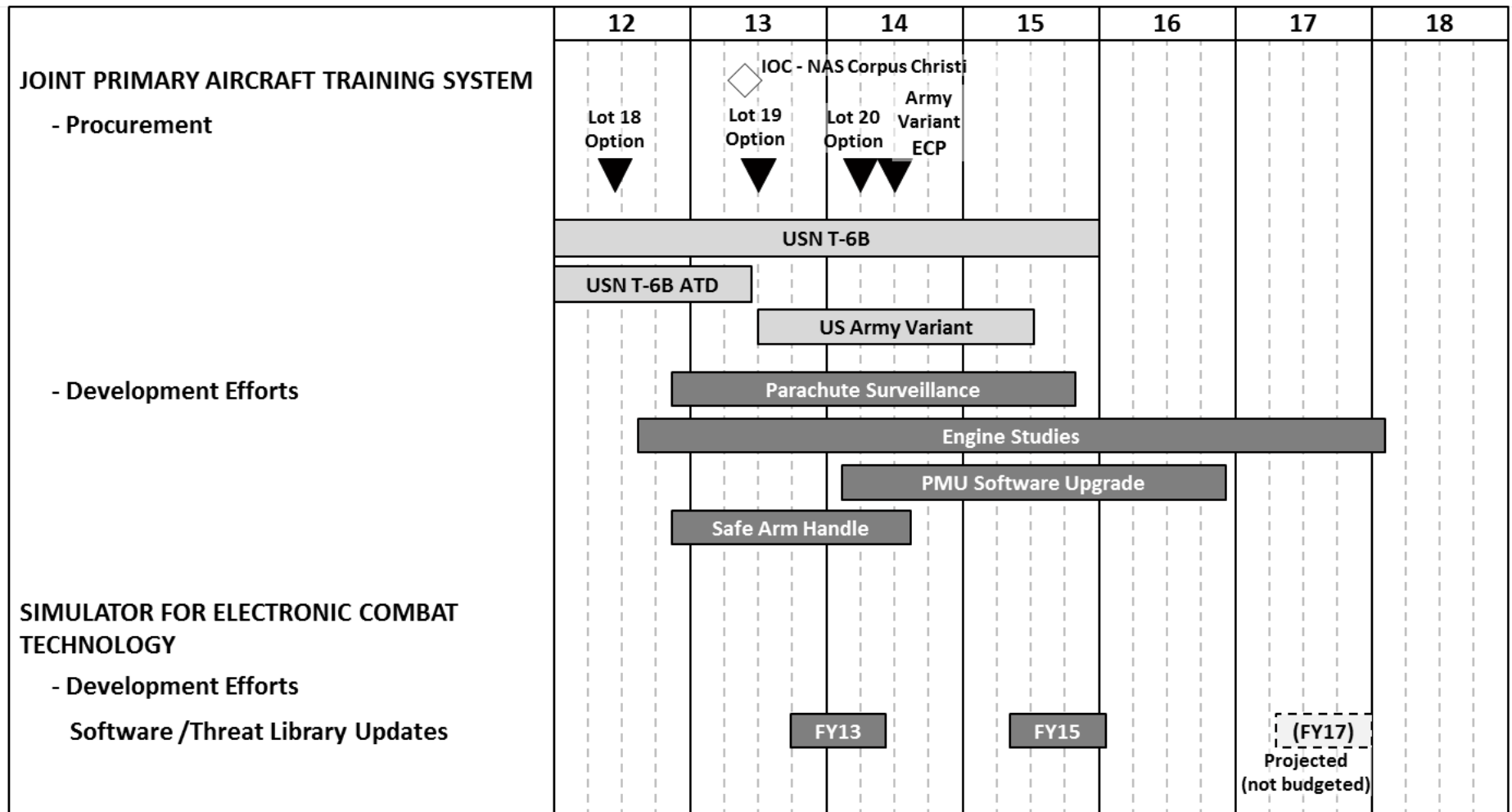
3600: Research, Development, Test & Evaluation, Air Force
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604233F: Specialized Undergraduate
Flight Training

PROJECT

654102: Joint Primary Aircraft Training
System (JPATS)



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>	PROJECT 654102: <i>Joint Primary Aircraft Training System (JPATS)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
JPATS Parachute Surveillance System Development	4	2012	4	2015
JPATS Engine Studies	3	2012	1	2018
JPATS Power Management Unit (PMU) Software Upgrade	1	2014	4	2016
Award JPATS Lot 18 Contract Option	2	2012	2	2012
Award JPATS Lot 19 Contract Option	2	2013	2	2013
JPATS Safe Arm Handle Development	4	2012	3	2014
JPATS IOC NAS Corpus Christi	2	2013	2	2013
Award JPATS Lot 20 Contract Option	1	2014	1	2014
Award Army Variant ECP	2	2014	2	2014
Continuing USN T-6B Deliveries	1	2012	4	2015
US Army Variant Deliveries	2	2013	2	2015
Continuing USN T-6B Aircrew Training Device (ATD) Deliveries	1	2012	2	2013
Update SECT Software and Threat Library (FY2013)	4	2013	2	2014
Update SECT Software and Threat Library (FY2015)	2	2015	1	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				PROJECT			
3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)					PE 0604233F: Specialized Undergraduate Flight Training				654376: T-38 Avionics Upgrade Program (AUP)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
654376: T-38 Avionics Upgrade Program (AUP)	-	1.232	1.146	0.225	-	0.225	2.158	1.653	1.144	1.164	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

The T-38C Avionics Upgrade Program (AUP) installed a "Glass Cockpit" into the T-38 jet trainer and re-designated the upgraded aircraft from the T-38A/B to the T-38C model. The AUP modification, which utilized a Commercial Off-The-Shelf (COTS)/Non-Developmental Item (NDI) approach to acquire kits, is currently in sustainment phase under the T-38C Avionics Post Production support contract. The avionics system requires regular block upgrades to keep the system current and airworthy. Block upgrades incorporate software and/or hardware improvements to comply with new requirements mandated by Department of Defense, Federal Aviation Administration or National Airspace System (DoD/FAA/NAS) and to address flight safety issues. The block upgrades support the T-38C aircraft and Aircrew Training Devices (ATD). This effort also includes development of the aircraft Mission Planning System (MPS) support to obtain Joint Mission Planning System (JMPS) currency and certification for T-38C flight operations. The JMPS requirements are levied from outside the T-38 program office and may or may not correlate with block upgrade requirements. Additionally, engineering services, studies, analysis and support are required to determine the feasibility of integrating changes into the system and making informed business decisions related to Diminishing Manufacturing Sources and Material Shortages (DMSMS) and other lifecycle related concerns.

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

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

	FY 2012	FY 2013	FY 2014
Title: T-38 AUP	1.007	0.921	0.000
Description: T-38 Avionics Post Production Support (APPS) software block upgrades, Communication Navigation Surveillance / Air Traffic Management (CNS/ATM) compliance and Joint Mission Planning System (JMPS) support.			
FY 2012 Accomplishments: Completed test and fielding of Block 9 aircraft, Aircrew Training Device (ATD) hardware/software upgrades and JMPS mission planning software. Began requirements analysis of Block 10. Developed and replaced proprietary ATD software with unlimited government rights to ensure future viability of the aircraft and ATD systems. Designed and developed hardware/software solution			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>		PROJECT 654376: <i>T-38 Avionics Upgrade Program (AUP)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
for requirements driven by DoD and FAA/NAS mandates, and incorporated improvements identified during test and evaluation and AETC operations.					
FY 2013 Plans: Continue requirement analysis of Block 10 aircraft and Aircrew Training Device (ATD) hardware/software upgrade and determine JMPS planning software upgrade requirements. Accomplish government testing of ATD software being developed to replace contractor proprietary software with software that provides unlimited government rights to ensure future viability of the aircraft and ATD systems. Integrate the T-38C program in to the Air Force Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) program to ensure the T-38C aircraft is compliant with all Air Force standards and directives. Design and develop hardware and software solutions for requirements driven by DoD and FAA/NAS mandates, and deficiencies identified during test and evaluation and AETC operations.					
FY 2014 Plans: Complete requirement analysis for Block 10 and begin software development for required aircraft and Aircrew Training Device (ATD) hardware/software upgrades. Finalize JMPS mission planning software upgrade requirements and begin development and testing. Coordinate surveillance and testing requirements with the Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) Center of Excellence program to ensure the T-38C aircraft is compliant with Air Force navigation data chain management standards and directives. Design and develop hardware and software solutions for requirements driven by DoD and FAA/NAS mandates, and deficiencies identified during test and evaluation and AETC operations.					
Title: T-38 AUP Program Management Administration (PMA) Description: T-38 AUP software development PMA costs such as travel, Other Government Costs (OGC), and Advisory and Assistance Services (A&AS). FY 2012 Accomplishments: T-38 AUP PMA. FY 2013 Plans: T-38 AUP PMA. FY 2014 Plans: T-38 AUP PMA.			0.225	0.225	0.225
Accomplishments/Planned Programs Subtotals			1.232	1.146	0.225
C. Other Program Funding Summary (\$ in Millions)					
N/A					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>	PROJECT 654376: <i>T-38 Avionics Upgrade Program (AUP)</i>
C. Other Program Funding Summary (\$ in Millions)		
Remarks		
D. Acquisition Strategy T-38C block updates were cost plus award fee options through Block 9 under a contract negotiated in FY 2004, which terminated in 4Q FY12. The Avionics Post Production Support (APPS) effort was awarded in FY12 through a competitive bid, C type, Firm-Fixed-Priced contract with a period of performance from April FY12 through March FY17. The block 10 software update will be a Firm-Fixed-Priced effort based on AETC operational requirements. Unknown/unforeseen requirements will be negotiated and separately priced by the government as an out-of-cycle update/modification as provisioned within the 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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>						PROJECT 654376: <i>T-38 Avionics Upgrade Program (AUP)</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Avionics Upgrade Program (AUP)	C/FFP	The Boeing Corporation:St. Louis, MO	-	0.503	Oct 2011	0.921	Oct 2012	0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.503		0.921		0.000		0.000		0.000			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA Contract Support	C/FFP	Not specified.:	-	0.155	Jan 2012	0.155	Jan 2013	0.035	Jan 2014	-		0.035	Continuing	Continuing	TBD
Other Government Costs	Various	Not specified.:	-	0.070	Feb 2012	0.070	Feb 2013	0.070	Feb 2014	-		0.070	Continuing	Continuing	
JMPS Support	C/FFP	Not specified.:	-	0.023	Mar 2012	0.000		0.120	Mar 2014	-		0.120	Continuing	Continuing	TBD
Subtotal			0.000	0.248		0.225		0.225		0.000		0.225			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AUP T&E	C/FFP	TBD.:	-	0.481	Jun 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.481		0.000		0.000		0.000		0.000			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Project Cost Totals			0.000	1.232		1.146		0.225		0.000		0.225			

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APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE			PROJECT				
3600: Research, Development, Test & Evaluation, Air Force			PE 0604233F: Specialized Undergraduate			654376: T-38 Avionics Upgrade Program				
BA 5: System Development & Demonstration (SDD)			Flight Training			(AUP)				
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

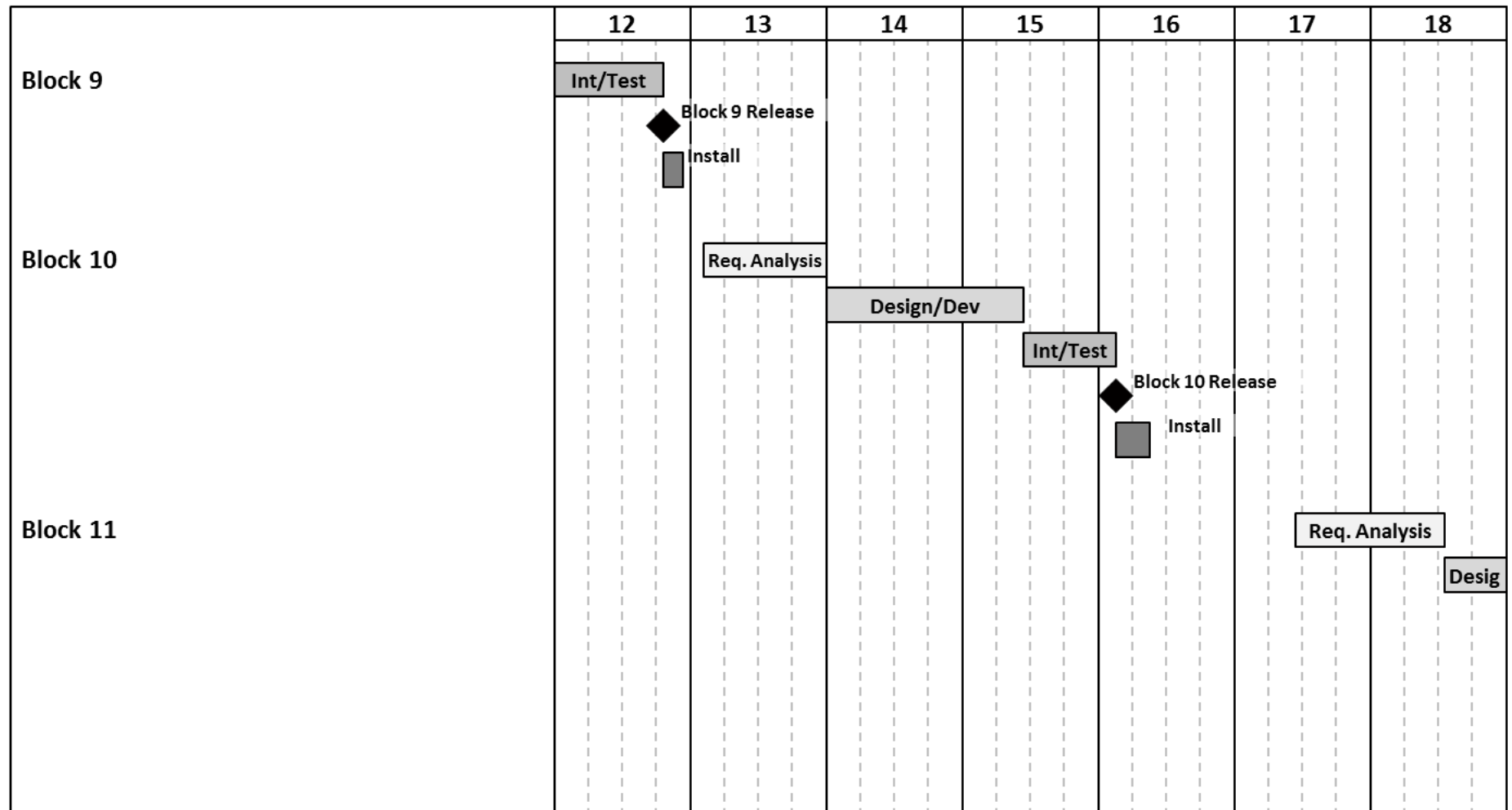
3600: Research, Development, Test & Evaluation, Air Force
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604233F: Specialized Undergraduate
Flight Training

PROJECT

654376: T-38 Avionics Upgrade Program
(AUP)



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>	PROJECT 654376: <i>T-38 Avionics Upgrade Program (AUP)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AUP Block 9 Integration/Test	1	2012	3	2012
AUP Block 9 Fielding	4	2012	4	2012
AUP Block 9 Release	4	2012	4	2012
AUP Block 10 Requirements	1	2013	4	2013
AUP Block 10 Design/Development	1	2014	2	2015
AUP Block 10 Integration and Test	2	2015	1	2016
AUP Block 10 Fielding	1	2016	2	2016
AUP Block 10 Release	1	2016	1	2016
AUP Block 11 Requirements	2	2017	3	2018
AUP Block 11 Design/Development	3	2018	4	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Flight Training				PROJECT 655340: Advanced Trainer Replacement T-X			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
655340: Advanced Trainer Replacement T-X	-	13.915	1.601	1.049	-	1.049	4.604	4.757	4.852	10.104	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
The Advanced Trainer Replacement, T-X, will replace AETC's T-38C 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-38C was first introduced in 1961. FY2014 will consist of studies, analysis and acquisition activities to reduce risk in support of future technology, engineering and manufacturing development. Studies and analyses may consist of, but not limited to, Live Virtual Constructive training concepts and applicability to AETC pilot training transformation efforts, non-developmental item (NDI) industrial base beyond 2020, USAF/DoD militarization of foreign NDI alternatives, and USAF Airworthiness Certification gap analysis of NDI alternatives. Air Education and Training Command (AETC) is conducting an Analysis of Alternatives (AoA) refresh that is due to complete by the third quarter of FY2013.												
This project is in Budget Activity 5, System Development and Demonstration (SDD), because it primarily involves the adaptation of essentially non-developmental aircraft, equipment, and components for military purpose.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Advanced Pilot Training (APT) Family of Systems (FoS)									11.650	0.201	0.000	
Description: Conduct studies, analysis and acquisition activities to reduce risk in support of technology, engineering and manufacturing development.												
FY 2012 Accomplishments: Conducted studies and analysis of T-X concepts supporting Technical Development and Engineering Manufacturing Development. Activities included evaluation of the non-developmental item (NDI) industrial base through 2020, initial assessment of required activities for NDI alternatives to obtain USAF Airworthiness Certifications, analysis of anthropometric suitability of NDI alternatives, programmatic acquisition activities, and requirements refinement.												
FY 2013 Plans: Conduct studies, analysis and acquisition activities to reduce risk in support of technology, engineering and manufacturing development. Studies and analyses may consist of, but are not limited to, Live Virtual Constructive training concepts and												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>	PROJECT 655340: <i>Advanced Trainer Replacement T-X</i>
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
applicability to AETC pilot training transformation efforts, non-developmental item (NDI) industrial base beyond 2020, USAF/DoD militarization of foreign NDI alternatives, and USAF Airworthiness Certification gap analysis of NDI alternatives.			
FY 2014 Plans: N/A			
Title: APT Program Management Administration (PMA) Description: APT PMA costs such as travel, Other Government Costs (OGC), and Advisory and Assistance Services (A&AS).		2.265	1.400
FY 2012 Accomplishments: APT PMA activities.			
FY 2013 Plans: APT PMA activities.			
FY 2014 Plans: APT PMA activities.			
Accomplishments/Planned Programs Subtotals		13.915	1.601
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
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.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604233F: Specialized Undergraduate Flight Training						PROJECT 655340: Advanced Trainer Replacement T-X			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development - Studies and Analysis	Various	Various:Various,	-	0.000		0.000		0.000		-		0.000	0.000	0.000	
Product Development - TBD	C/TBD	TBD:TBD,	-	11.650		0.000		0.000		-		0.000	Continuing	Continuing	
Subtotal			0.000	11.650		0.000		0.000		0.000		0.000			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA - Contractor Services	C/FFP	AFLCMC:Dayton, OH	-	1.989	May 2012	1.601	Jul 2013	1.000	Mar 2014	-		1.000	Continuing	Continuing	TBD
PMA - Government Costs	C/Various	AFLCMC:Dayton, OH	-	0.276		0.000		0.049		-		0.049	Continuing	Continuing	TBD
Subtotal			0.000	2.265		1.601		1.049		0.000		1.049			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force										DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE					PROJECT				
3600: Research, Development, Test & Evaluation, Air Force					PE 0604233F: Specialized Undergraduate					655340: Advanced Trainer Replacement T-				
BA 5: System Development & Demonstration (SDD)					Flight Training					X				
	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	0.000	13.915		1.601		1.049		0.000		1.049				

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

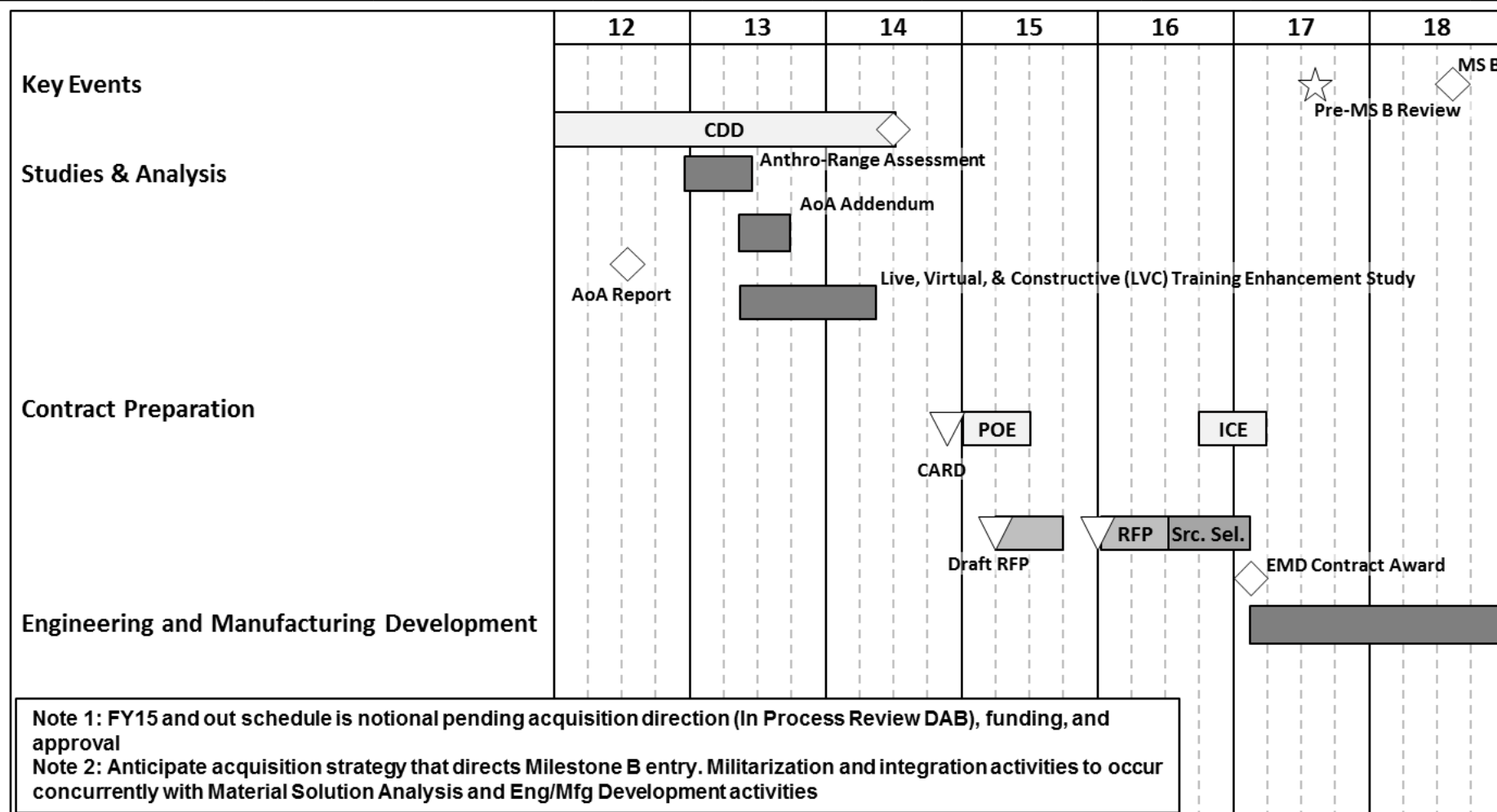
3600: Research, Development, Test & Evaluation, Air Force
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604233F: Specialized Undergraduate
Flight Training

PROJECT

655340: Advanced Trainer Replacement T-X



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Flight Training</i>	PROJECT 655340: <i>Advanced Trainer Replacement T-X</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Capability Development Document	1	2012	3	2014
Analysis of Alternatives Report	3	2012	3	2012
Anthropometric Range Assessment	4	2012	2	2013
Analysis of Alternatives Addendum	2	2013	4	2013
Live / Virtual / Constructive Training Enhancement Study	2	2013	2	2014
Cost Analysis Requirements Document	4	2014	4	2014
Program Office Estimate	1	2015	2	2015
Draft Request for Proposal	1	2015	4	2015
Request for Proposal	1	2016	2	2016
Source Selection	2	2016	1	2017
Independent Cost Estimate	4	2016	1	2017
EMD Contract Award	1	2017	1	2017
Engineering and Manufacturing Development (EMD)	1	2017	4	2018
Pre-Milestone B Review	3	2017	3	2017
Milestone B	3	2018	3	2018