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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	0.000	12.903	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.903
654102: <i>Joint Primary Aircraft Training System (JPATS)</i>	0.000	3.809	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.809
654376: <i>T-38 Avionics Upgrade Program (AUP)</i>	0.000	9.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.094

Program MDAP/MAIS Code: 560

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.

B. Program Change Summary (\$ in Millions)

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	13.324	0.000	0.000	0.000	0.000
Current President's Budget	12.903	0.000	0.000	0.000	0.000
Total Adjustments	-0.421	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.421	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force										Date: February 2016		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>			Project (Number/Name) 654102 / <i>Joint Primary Aircraft Training System (JPATS)</i>				
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
654102: <i>Joint Primary Aircraft Training System (JPATS)</i>	0.000	3.809	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.809
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 purchased 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 project develops 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.

Although in the same project number, the T25 Simulator for Electronic Combat Technology (SECT) is unrelated to the JPATS program. This project upgrades software and threat libraries for the T25 SECT. The T25 SECT primary training mission is to train undergraduate Combat Systems Officers (CSO) in all fundamental aspects of Electronic Combat (EC), including the operation and application of a wide variety of representative EC equipment in Threat Penetration, Electronic Counter Measures (ECM), Electronic Surveillance Measurement (ESM), and Suppression of Enemy Air Defenses (SEAD) or electronic attack (EA) type operations.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Joint Primary Aircraft Training System (JPATS) Studies	1.235	0.000	0.000	-	0.000
Description: JPATS studies & development efforts.					
FY 2015 Accomplishments: Continued JPATS studies and development activities including but not limited to initial phases of the 6 Engine Upgrade Studies, completion of Phase 1 of the Parachute Surveillance Study, Safe/Arm Handle development, and further engine component improvement program (CIP) studies (Including High Cycle Fatigue Research).					
FY 2016 Plans: N/A					
FY 2017 Base Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force			Date: February 2016		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654102 / <i>Joint Primary Aircraft Training System (JPATS)</i>			
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
N/A					
Title: T25 SECT Description: Funding upgrades to the Simulator for Electronic Combat Technology (SECT) FY 2015 Accomplishments: Updated threat database definitions and threat library. FY 2016 Plans: N/A FY 2017 Base Plans: N/A	1.080	0.000	0.000	-	0.000
Title: GBTS ATD IOS Joystick & Throttle Description: Joystick/Throttle ECP Project includes developing, integrating, testing, and delivering for the T-6 Aircrew Training Device (ATD) a Joystick and Throttle capability at the Instructor Operating System (IOS). This IOS Modification is only applicable to ATDs with Visual Systems (OFTs & IFTs) and will initially only be deployed to the ATDs at NAS Pensacola (AETC CSO and USN UMFO). FY 2015 Accomplishments: Developed, integrated, tested, and delivered for the T-6 Aircrew Training Device (ATD) Joystick/Throttle at the Instructor Operating System (IOS). This IOS Modification is only applicable to ATDs with Visual Systems (OFTs & IFTs) and will initially only be deployed to the ATDs at NAS Pensacola (AETC CSO and USN UMFO). FY 2016 Plans: N/A FY 2017 Base Plans: N/A	0.635	0.000	0.000	-	0.000
Title: Engine Upgrade Study Description: Compilation of six individual studies to investigate engine life limiting issues and to evaluate and recommend potential upgrade options to increase service life and decrease life cycle costs for the T106-PW-100 engine.	0.636	0.000	0.000	-	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654102 / <i>Joint Primary Aircraft Training System (JPATS)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p><i>FY 2015 Accomplishments:</i> Accomplished a compilation of six individual studies to investigate engine life limiting issues and to evaluate and recommend potential upgrade options to increase service life and decrease life cycle costs for the T106-PW-100 engine.</p> <p><i>FY 2016 Plans:</i> N/A</p> <p><i>FY 2017 Base Plans:</i> N/A</p>					
<p><i>Title:</i> High Cycle Fatigue Research</p> <p><i>Description:</i> Support to provide High Cycle Fatigue (HCF) and Structural Health Monitoring (SHM) research and development analysis of the T106-PW-100 gas turbine engine</p> <p><i>FY 2015 Accomplishments:</i> Completed High Cycle Fatigue (HCF) and Structural Health Monitoring (SHM) research and development analysis of the T106-PW-100 gas turbine engine</p> <p><i>FY 2016 Plans:</i> N/A</p> <p><i>FY 2017 Base Plans:</i> N/A</p>	0.223	0.000	0.000	-	0.000
Accomplishments/Planned Programs Subtotals	3.809	0.000	0.000	-	0.000

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• APAF: BA06: Line Item # 000999: <i>Initial Spares/Repair Parts</i>	4.248	0.875	0.000	0.000	0.000	4.449	2.631	2.679	2.728	Continuing	Continuing
• APAF: BA05: Line Item # JPAT00: <i>T-6</i>	14.484	14.968	12.765	0.000	12.765	51.127	26.035	26.486	26.975	Continuing	Continuing
• APN: BA03: Line Item # 033900: <i>JPATS</i>	0.000	8.914	5.849	0.000	5.849	0.000	0.000	0.000	0.000	0.000	2,036.802

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654102 / <i>Joint Primary Aircraft Training System (JPATS)</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APN: BA05: Line Item # 057100: <i>JPATS Series</i>	1.085	12.537	17.401	0.000	17.401	38.354	52.303	38.872	39.655	Continuing	Continuing
• APN: BA06: Line Item # 060500: <i>Spares and Repair Parts</i>	0.127	0.264	0.264	0.000	0.264	0.140	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 follow-on contract production for both the air vehicle and GBTS was awarded as a FAR Part 15 action. The FFP CLS Operations and Maintenance funded contract is 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 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654102 / <i>Joint Primary Aircraft Training System (JPATS)</i>
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
JPATS Studies	Various	Various : Various	0.000	1.235	Jan 2015	0.000		0.000		0.000		0.000	0.000	1.235	5.676
JPATS Engine Study Upgrade	C/CPFF	BDC : Various	0.000	0.636	Jan 2015	0.000		0.000		0.000		0.000	0.000	0.636	-
JPATS Engine High Cycle Fatigue	C/CPFF	Universal Technology Corp : Dayton, OH	0.000	0.223	Jan 2015	0.000		0.000		0.000		0.000	0.000	0.223	0.417
JPATS PMU	Various	Various : Various	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	TBD
JPATS GBTS ATD IOS Joystick & Throttle	C/FFP	NAS Pensacola : Pensacola, FL	0.000	0.635	Apr 2015	0.000		0.000		0.000		0.000	0.000	0.635	0.651
SECT Upgrade	C/FFP	BowHead Systems Management, Inc. : King George, VA	0.000	1.080		0.000		0.000		0.000		0.000	0.000	1.080	-
JPATS Completed Contracts	C/Various	Various : Various	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	288.900
Subtotal			0.000	3.809		0.000		0.000		0.000		0.000	0.000	3.809	-

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654102 / <i>Joint Primary Aircraft Training System (JPATS)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Joint Primary Aircraft Training System (JPATS) Studies	1	2015	4	2017
JPATS GBTS ATD IOS Joystick & Throttle	1	2015	2	2016
JPATS Engine Upgrade Study	1	2015	2	2017
JPATS High Cycle Fatigue Research	1	2015	1	2018
SECT Update Software and Threat Library (FY2015/FY2016)	2	2015	3	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force										Date: February 2016		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>				Project (Number/Name) 654376 / <i>T-38 Avionics Upgrade Program (AUP)</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
654376: <i>T-38 Avionics Upgrade Program (AUP)</i>	0.000	9.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.094
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

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 acquisition program.

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).

The APPS program provides Mission Planning System support through sustainment of the aircraft Joint Mission Planning System (JMPS). The JMPS program provides T-38C pilot mission planning 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.

FY2015 includes an avionics obsolescence remediation effort to qualify updated instruments in the T-38C. The program will begin development of a replacement Mission Display Processor (MDP), refurbishment of the existing Heads-Up Display (HUD), Development and integration of an Automatic Dependent Surveillance - Broadcast (ADS-B) solution as well as replacement of the Very High Frequency (VHF) Communication radio system and the VHF Navigation system.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: T-38C Avionics Post Production Support (APPS)	9.094	0.000	0.000	0.000	0.000
Description: T-38C APPS hardware and software block upgrades, Communication, Navigation, Surveillance/Air Traffic Management (CNS/ATM) compliance, Joint Mission Planning System (JMPS) support and avionics system Diminishing Manufacturing Sources and Material Shortages (DMSMS) mitigation efforts.					
FY 2015 Accomplishments:					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654376 / <i>T-38 Avionics Upgrade Program (AUP)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>The T-38C avionics program began system obsolescence mitigation efforts. The program office awarded the Avionics Component Integration contract in January 2016 to begin development of a replacement Mission Display Processor (MDP), refurbishment of the existing Heads-Up Display, development and integration of an Automatic Dependent Surveillance - Broadcast (ADS-B) solution as well as replacement of the Very High Frequency (VHF) Communication radio system and the VHF Navigation system.</p> <p>FY 2016 Plans: N/A</p> <p>FY 2017 Base Plans: N/A</p> <p>FY 2017 OCO Plans: N/A</p>					
Accomplishments/Planned Programs Subtotals	9.094	0.000	0.000	0.000	0.000

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• APAF: BA05: Line Item # T03800: T-38	28.845	30.604	45.090	0.000	45.090	54.692	97.503	25.795	26.269	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Avionics Post Production Support (APPS) acquisition program awarded a contract in FY2012 through a competitive bid, C type, Firm Fixed Price (FFP) contract with a period of performance from April 2012 through March 2017. The block 10 software update required no new capability and therefore did not utilize investment funding. AETC operational requirements for Block 11 is an option to the AvCI contract to address unknown software issues. Unknown/unforeseen engineering and system support requirements will be negotiated and separately priced by the government as an out-of-cycle update/modification as provisioned within the contract.

Component Diminishing Manufacturing Sources and Material Shortages (DMSMS) are mitigated incrementally and prioritized based on funding availability and impact to aircraft airworthiness.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654376 / <i>T-38 Avionics Upgrade Program (AUP)</i>

The Avionics Component Integration (AvCI) contract awarded 4 January 2016. The current contract strategy is a Type D IDIQ contract competitively awarded to address T-38C avionics system obsolescence issues and provide CLS follow-on support. Avionics system DMSMS mitigation efforts began immediately upon award and the follow-on CLS effort will be begin upon termination of the current contracted effort (01 April 2017).

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 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654376 / <i>T-38 Avionics Upgrade Program (AUP)</i>
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
T-38 APPS - Solutions for avionics component obsolescence and FAA ADS-B mandate; MDP, HUD, VHF Radios, ADS-B	C/FFP	The Boeing Company : St. Louis, MO	0.000	8.989	Jan 2016	0.000		0.000		0.000		0.000	0.000	8.989	-
Subtotal			0.000	8.989		0.000		0.000		0.000		0.000	0.000	8.989	-

Remarks
Contract awarded in January 2016 to begin development of a replacement Mission Display Processor (MDP), refurbishment of the existing Heads-Up Display, development an integration of an Automatic Dependent Surveillance - Broadcast (ADS-B) solution as well as replacement of the VHF Communication radio system and the VHF Navigation system. Additionally, \$2.2M from the JPATS program was realigned in February 2015 to this program. That funding was obligated upon contract award in January 2016.

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
T-38 APPS Government Travel	C/Various	Various : TBD	0.000	0.055	Oct 2014	0.000		0.000		0.000		0.000	0.000	0.055	-
T-38 APPS PMA Contract Support	C/FFP	Not specified. : TBD	0.000	0.050	Dec 2014	0.000		0.000		0.000		0.000	0.000	0.050	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654376 / <i>T-38 Avionics Upgrade Program (AUP)</i>
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			0.000	0.105		0.000		0.000		0.000		0.000	0.000	0.105	-

Remarks
T-38 SPO and program A&AS support.

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	9.094	0.000	0.000	0.000	0.000	0.000	9.094	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654376 / <i>T-38 Avionics Upgrade Program (AUP)</i>

FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

AvCI - Begin mitigation of avionics component obsolescence and solution for FAA ADS-B mandate; MDP, HUD, VHF Radios, ADS-B	[REDACTED]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604233F / <i>Specialized Undergraduate Flight Training</i>	Project (Number/Name) 654376 / <i>T-38 Avionics Upgrade Program (AUP)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AvCI - Begin mitigation of avionics component obsolescence and solution for FAA ADS-B mandate; MDP, HUD, VHF Radios, ADS-B	2	2016	2	2017