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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Pilot Training</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	7.794	21.780	6.583	-	6.583	9.209	16.299	67.178	326.704	Continuing	Continuing
654102: <i>Joint Primary Aircraft Training System (JPATS)</i>	3.598	4.720	3.836	-	3.836	2.327	3.795	2.398	2.430	Continuing	Continuing
654376: <i>T-38 Avionics Upgrade Program (AUP)</i>	1.110	1.151	1.146	-	1.146	0.902	0.958	1.053	1.144	Continuing	Continuing
655340: <i>Advanced Trainer Replacement T-X</i>	3.086	15.909	1.601	-	1.601	5.980	11.546	63.727	323.130	Continuing	Continuing

Note

The Cost to Complete and Total Cost for MDAP projects in this program element are documented in the R3. The Cost to Complete and Total Cost on the R2 are entered as "Continuing" and not reflective of the total cost for MDAP projects since the R2 does not account for prior years funding.

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 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.

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

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B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	8.066	21.780	12.662	-	12.662
Current President's Budget	7.794	21.780	6.583	-	6.583
Total Adjustments	-0.272	-	-6.079	-	-6.079
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.231	-			
• Other Adjustments	-0.041	-	-6.079	-	-6.079

Change Summary Explanation

FY2011 Other Adjustments includes a Congressional General Reduction of \$41 thousand.

FY2013 includes a reduction in funding for Advanced Pilot Training to delay the Initial Operational Capability (IOC) from FY2017 to approximately FY2020.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Pilot Training</i>				PROJECT 654102: <i>Joint Primary Aircraft Training System (JPATS)</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
654102: <i>Joint Primary Aircraft Training System (JPATS)</i>	3.598	4.720	3.836	-	3.836	2.327	3.795	2.398	2.430	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Joint Primary Aircraft Training System (JPATS) is a joint USAF/USN venture to replace the Services' fleets of primary trainer aircraft (T-37 and T-34, respectively) and associated Ground Based Training Systems (GBTS). The 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. FY2013-FY2017 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.

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 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: JPATS	2.105	4.720	2.340	-	2.340
Description: JPATS studies & development efforts					
FY 2011 Accomplishments: JPATS studies and development activities such as parachute surveillance study.					
FY 2012 Plans: JPATS studies and development activities to include development of a T-6 Power Management Unit (PMU) software upgrade, parachute surveillance, safe/arm handle development, and engine Component Improvement Program (CIP) study.					
FY 2013 Base Plans:					

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Pilot Training</i>	PROJECT 654102: <i>Joint Primary Aircraft Training System (JPATS)</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
JPATS studies and development activities to include development of the T-6 Power Management Unit (PMU) software upgrade, parachute surveillance, safe/arm handle, and engine Component Improvement Program (CIP) studies. FY 2013 OCO Plans: N/A					
Title: SECT Description: Simulator for Electronic Combat Technology (SECT) FY 2011 Accomplishments: Update threat database definitions and threat library FY 2012 Plans: N/A FY 2013 Base Plans: Update threat database definitions and threat library. FY 2013 OCO Plans: N/A	1.493	-	1.496	-	1.496
Accomplishments/Planned Programs Subtotals	3.598	4.720	3.836	-	3.836

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	<u>Cost To Complete</u>	<u>Total Cost</u>
• APAF, PE 0804740F, JPATS Initial...: <i>JPATS Initial Spares</i>	0.454	1.944	0.021	0.000	0.021	0.824	0.838	0.847	0.861	Continuing	Continuing
• APAF, PE 0804740F, JPATS Modific...: <i>JPATS Modifications</i>	24.508	15.086	15.494	0.000	15.494	10.027	12.471	12.800	13.632	Continuing	Continuing
• APAF, PE 0804740F, JPATS Post Pr...: <i>JPATS Post Production Support</i>	9.398	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.398

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APN, PE 0804745N, JPATS <i>Acquisition: JPATS USN Weapon System</i>	26.100	256.906	278.884	0.000	278.884	289.950	15.959	0.110	0.126	Continuing	Continuing
• APN, PE 0804745N, JPATS <i>Modifica...: JPATS USN Modifications</i>	1.821	0.524	1.552	0.000	1.552	1.579	1.606	1.650	1.679	Continuing	Continuing
• APN, PE 0804745N, JPATS <i>Initial ...: JPATS USN Initial Spares</i>	0.000	7.285	7.434	0.000	7.434	12.022	0.000	0.000	0.000	0.000	76.841

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.

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-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Pilot Training</i>	PROJECT 654102: <i>Joint Primary Aircraft Training System (JPATS)</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604233F: <i>Specialized Undergraduate Pilot 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	1	2012	1	2015
JPATS Engine Studies	3	2012	4	2017
JPATS Power Management Unit (PMU) Software Upgrade	2	2012	3	2014
Award JPATS Lot 18 Contract Option	2	2012	2	2012
Award JPATS Lot 19 Contract Option	1	2013	1	2013
JPATS Safe Arm Handle Development	1	2012	4	2013
JPATS IOC NAS Corpus Christi	1	2013	2	2013
Award JPATS Lot 20 Contract Option	1	2014	1	2014
Continue USN T-6B Deliveries	1	2011	2	2015
Continue USN T-6B Aircrew Training Device (ATD) Deliveries	1	2011	4	2013
Update SECT Software and Threat Library (FY2011)	1	2012	4	2012
Update SECT Software and Threat Library (FY2013)	3	2013	1	2014
Update SECT Software and Threat Library (FY2015)	3	2015	1	2016

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
654376: <i>T-38 Avionics Upgrade Program (AUP)</i>	1.110	1.151	1.146	-	1.146	0.902	0.958	1.053	1.144	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The T-38C Avionics Upgrade Program (AUP) installed a "Glass Cockpit" in the T-38 upgrading T-38A/B models to T-38C models. The AUP modification, which utilizes a Commercial Off-The-Shelf (COTS)/Non-Developmental Item (NDI) approach to acquire kits, is currently in sustainment phase and requires regular block upgrades to incorporate software, hardware improvements, and new requirements as mandated by Department of Defense, Federal Aviation Administration and National Aerospace System (DoD/FAA/NAS) and flight safety issues 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. 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).

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

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

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: T-38 AUP	1.110	1.151	1.146	-	1.146
Description: T-38 Avionics Upgrade Program (AUP) block software upgrades					
FY 2011 Accomplishments: Continued development 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. Supported OGC, A&AS and Travel in FY11					
FY 2012 Plans: Complete test and fielding of Block 9 aircraft and Aircrew Training Device (ATD) hardware/software upgrades and JMPS mission planning software. Begin requirements definition of Block 10. Develop and replace proprietary ATD software with Government Purpose rights to ensure future viability of the aircraft and ATD systems. Design and develop hardware and software solution for requirements driven by DoD and FAA/NAS					

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
mandates, and improvements identified during test and evaluation and AETC operations. Provide travel, OGC and A&AS costs related to software development activities.					
<i>FY 2013 Base Plans:</i> Complete requirement definition and begin development of Block 10 aircraft and Aircrew Training Device (ATD) hardware/software upgrades and JMPS mission planning software. Develop and replace proprietary ATD software with Government Purpose rights to ensure future viability of the aircraft and ATD systems. Design and develop hardware and software solution for requirements driven by DoD and FAA/NAS mandates, and improvements identified during test and evaluation and AETC operations. Provide travel, OGC and A&AS costs related to software development activities.					
<i>FY 2013 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	1.110	1.151	1.146	-	1.146

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing

D. Acquisition Strategy
T-38 block updates are cost plus award fee options through block 9 under a contract negotiated in FY 2004, which terminates in FY12. The AUP program sustainment effort will continue through a competitive bid, Lowest Price Technically Acceptable (LPTA), C type contract from FY12 through FY17, awarded in FY12. Upon the competitive award of the AUP sustainment efforts in FY2012, software updates will be firm fixed price unless the Government negotiates an out of cycle update that is not within scope of the sustainment 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-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AUP Block 8 Release	1	2011	1	2011
AUP Block 8 Fielding	1	2011	1	2011
AUP Block 9 Design/Development	1	2011	1	2012
AUP Block 9 Integration and Test	1	2012	4	2012
AUP Block 9 Fielding	4	2012	4	2012
AUP Block 9 Release	4	2012	4	2012
AUP Block 10 Requirements	1	2011	4	2011
AUP Block 10 Requirements II	4	2012	2	2013
AUP Block 10 Design/Development	2	2013	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	4	2017

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
655340: <i>Advanced Trainer Replacement T-X</i>	3.086	15.909	1.601	-	1.601	5.980	11.546	63.727	323.130	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Advanced Trainer Replacement, T-X, will replace the USAF T-38 aircraft and associated Ground Based Training System (GBTS) currently used in the fighter/ bomber advanced Specialized Undergraduate Pilot Training (SUPT) track as well as in the Introduction to Fighter Fundamentals (IFF) program. The T-38 was first introduced in 1961. FY13 will consist of studies and acquisition activities to support future technology, engineering and manufacturing development.

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 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Advanced Pilot Training (APT) Family of Systems (FoS)	3.086	15.909	1.601	-	1.601
Description: Conduct studies, analysis and acquisition activities to support technology, engineering and manufacturing development.					
FY 2011 Accomplishments: Conduct studies, analysis and acquisition activities to support technology, engineering and manufacturing development.					
FY 2012 Plans: Conduct studies, analysis and acquisition activities to support technology, engineering and manufacturing development.					
FY 2013 Base Plans: Conduct studies, analysis and acquisition activities to support technology, engineering and manufacturing development.					
FY 2013 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	3.086	15.909	1.601	-	1.601

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• O&MAF 0804741F, Undergradua...: <i>Undergraduate Pilot Training</i>	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.000

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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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Material Solution Analysis	1	2011	4	2014
Analysis of Alternatives Report	2	2012	2	2012
In Process Review Defense Acquisition Board (DAB)	3	2012	3	2012
Capability Development Document	4	2012	4	2012
Pre-Engineering Manufacturing Development (EMD) Review	4	2013	4	2013
Milestone B	4	2014	4	2014
Engineering and Manufacturing Development	1	2015	4	2017