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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605223F I Advanced Pilot Training							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	7.747	10.395	12.377	105.999	0.000	105.999	323.463	366.369	320.177	202.937	145.571	1,495.035
655340: Advanced Trainer Replacement T-X	7.747	10.395	12.377	105.999	0.000	105.999	323.463	366.369	320.177	202.937	145.571	1,495.035
Quantity of RDT&E Articles	-	-	-	3	-	3	2	-	-	-		
Program MDAP/MAIS Code: 436												
Note Prior Years Funding \$4.994M was executed in PE 0604233F.												
A. Mission Description and Budget Item Justification The APT program will replace the AETC aging T-38C fleet with new aircraft, Ground Based Training Systems (GBTS) (simulators, training devices, computer based training systems, academics, etc.), and support infrastructure 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 APT program acquisition strategy was approved by OSD (AT&L) in early FY 2017 (December 2016). At the same time, the APT Team completed their Development Request for Proposal (RFP) Release Defense Acquisition Board (DAB) and subsequently released the RFP to industry on 30 Dec 2016. The Program will begin source selection evaluations in mid 2017 and seek Milestone B entry in FY 2018.												
B. Program Change Summary (\$ in Millions)				FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total				
Previous President's Budget				10.395	12.377	105.699	0.000	105.699				
Current President's Budget				10.395	12.377	105.999	0.000	105.999				
Total Adjustments				0.000	0.000	0.300	0.000	0.300				
• 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				0.000	0.000							
• Other Adjustments				0.000	0.000	0.300	0.000	0.300				
Change Summary Explanation The FY 2016 budget does not reflect two reprogramming actions that occurred after 30 Sept 2016 in the amount of -\$6.263M. The purpose of the reprogramming actions are to improve program execution.												

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C. Accomplishments/Planned Programs (\$ in Millions)									FY 2016	FY 2017	FY 2018
Title: Advanced Pilot Training (APT) Program Description: The APT program office is developing an acquisition strategy and related documentation to meet the requirements of the Capabilities Development Document (CDD) for Milestone B entry. This includes studies, analysis, acquisition documentation, and market research activities to reduce risk and support the acquisition strategy and engineering and manufacturing development. Includes Program Management Administration (PMA) such as travel, Other Government Costs (OGC), and Advisory and Assistance Services (A&AS). FY 2016 Accomplishments: Completed studies, analysis, test and acquisition documentation and RFP development activities in support of RFP Release Decision DAB and Source Selection activities. Included APT PMA costs such as travel, OGC and A&AS in support of Milestone B approval. FY 2017 Plans: The APT Program Office is developing an acquisition strategy, related milestone documentation, and proposal documents. Studies, analysis, test and acquisition documentation and market research activities will be conducted to reduce risk in support of acquisition strategy, engineering and manufacturing development. Included APT PMA costs such as travel, OGC and A&AS in support of a Milestone B approval. FY 2018 Plans: Program plans to complete Milestone B, Contract award completion and contract kickoff activities to include System Requirements Review(SRR)/System Functional Review (SFR), Preliminary Design Review (PDR), and documentation updates post Milestone B. Plans also includes APT PMA costs such as travel, OGC, and A&AS.									10.395	12.377	105.999
Accomplishments/Planned Programs Subtotals									10.395	12.377	105.999
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• APAF: BA03: Line Item APT000: Advanced Trainer Replacement T-X	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	573.881	15,467.703	16,089.030
• APAF: BA03: APT000 Adv Proc: Advanced Trainer Replacement T-X	0.000	0.000	0.000	0.000	0.000	0.000	0.000	63.500	71.046	2,046.759	2,210.259
Remarks											

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E. Acquisition Strategy This Advanced Pilot Training (APT) Program will develop, test, acquire and sustain an affordable, agile, and integrated APT System consisting of 350 aircraft, Ground Based Training System, Maintenance Training System, support, infrastructure, and personnel to meet Air Education and Training Command's initial need date of FY24. The APT Program has conducted extensive market research, concluding multiple interested and capable offerors exist supporting a vigorous competition. The program's acquisition strategy leverages market conditions by competing and awarding development, production, and initial sustainment in a single contract award. A single award Indefinite Delivery Indefinite Quantity contract will be awarded to provide for development, integration and test needed to meet existing APT requirements. Additional contract options are available for Low Rate Initial Production, Full Rate Production and initial sustainment transition.		
F. 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: FY 2018 Air Force												Date: May 2017			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605223F / Advanced Pilot Training				Project (Number/Name) 655340 / Advanced Trainer Replacement T-X					
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Advanced Pilot Training Future Contracts	Various	TBD : TBD	0.000	0.000		1.309	Dec 2017	92.216	Dec 2017	0.000		92.216	1,040.462	1,133.987	-
Subtotal			0.000	0.000		1.309		92.216		0.000		92.216	1,040.462	1,133.987	-
Remarks															
As the acquisition strategy is developed and cost estimates mature, the amount in cost to complete will be allocated to the appropriate categories.															
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Advanced Pilot Training Studies and Analysis	Various	Various : Various	3.566	6.673	Jun 2016	5.034	Jan 2017	0.035	Jan 2018	0.000		0.035	64.471	79.779	-
Subtotal			3.566	6.673		5.034		0.035		0.000		0.035	64.471	79.779	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Advanced Pilot Training Test Support	MIPR	Edwards AFB : Edwards AFB, CA	0.029	0.204	Feb 2016	0.209	May 2017	0.855	Nov 2017	0.000		0.855	207.551	208.848	-
Subtotal			0.029	0.204		0.209		0.855		0.000		0.855	207.551	208.848	-
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Advanced Pilot Training PMA Government Costs	Various	AFLCMC : Dayton, OH	1.406	0.642	Oct 2015	2.285	Jan 2017	3.837	Oct 2017	0.000		3.837	10.725	18.895	-
Advanced Pilot Training A&AS	Various	AFLCMC : Dayton, OH	2.746	2.876	Mar 2016	3.540	Feb 2017	9.056	Mar 2018	0.000		9.056	35.308	53.526	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force												Date: May 2017		
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0605223F / <i>Advanced Pilot Training</i>				Project (Number/Name) 655340 / <i>Advanced Trainer Replacement T-X</i>				

Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	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			4.152	3.518		5.825		12.893		0.000		12.893		46.033	72.421	-

	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	7.747	10.395	12.377	105.999	0.000	105.999	1,358.517	1,495.035	-

Remarks

Prior years amounts under Program 0604233F, Specialized Undergraduate Flight Training.

Advanced Pilot Training Studies and Analysis: \$0.935M

Advanced Pilot Training PMA Government Costs: \$1.383M

Advanced Pilot Training A&AS: \$2.676M

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Air Force			Date: May 2017		
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0605223F / <i>Advanced Pilot Training</i>			Project (Number/Name) 655340 / <i>Advanced Trainer Replacement T-X</i>

	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	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
Cost Estimate Preparation Certification																												
Pre Milestone B (RFP Release) Decision Point																												
RFP Release																												
Source Selection																												
Milestone B																												
Engineering and Manufacturing Development Phase																												
Government Preliminary Design Review (PDR)																												
Post PDR Review																												
Government Critical Design Review (CDR)																												
Development, Test and Evaluation																												
Advanced Procurement (AP) Approval																												
AP Delivery Order																												
Milestone C																												

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Air Force			Date: May 2017
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605223F / <i>Advanced Pilot Training</i>	Project (Number/Name) 655340 / <i>Advanced Trainer Replacement T-X</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Cost Estimate Preparation Certification	1	2016	4	2016
Pre Milestone B (RFP Release) Decision Point	1	2017	1	2017
RFP Release	1	2017	1	2017
Source Selection	2	2017	1	2018
Milestone B	1	2018	1	2018
Engineering and Manufacturing Development Phase	1	2018	3	2022
Government Preliminary Design Review (PDR)	3	2018	3	2018
Post PDR Review	1	2019	1	2019
Government Critical Design Review (CDR)	3	2019	3	2019
Development, Test and Evaluation	2	2020	2	2022
Advanced Procurement (AP) Approval	3	2021	3	2021
AP Delivery Order	4	2021	4	2021
Milestone C	3	2022	3	2022