Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

Date: February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 5: System

PE 0207701F I Full Combat Mission Training

Development & Demonstration (SDD)

,	,											
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	8.427	1.015	9.797	0.000	9.797	9.846	7.010	7.138	7.266	Continuing	Continuing
655012: Full Combat Mission Training	-	0.000	1.015	9.797	0.000	9.797	9.846	7.010	7.138	7.266	Continuing	Continuing
655354: F-16 Block 40/50 MTC	-	8.427	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.427

A. Mission Description and Budget Item Justification

Full Combat Mission Training (FCMT) supports Air Force Distributed Mission Operations (DMO) and Live-Virtual-Constructive (LVC) integration. DMO is an operational readiness initiative enabling the USAF to exercise and train at the operational and strategic levels of war while facilitating unit-level training. FCMT funding provides research in areas benefiting the AF DMO/LVC environment as a whole. Provides research and development to facilitate integration of fielded and newly acquired, Air Force owned training devices into DMO/LVC networks. Enhances the quality of training for the systems added to the network. Enables aircrews to network with LVC components to form the integrated DMO battlespace. Links geographically distributed high-fidelity combat and combat support training devices including Command and Control and Intelligence, Surveillance, and Reconnaissance systems. Develops, demonstrates and inserts multi-level security capability. This capability allows the warfighters at home station to exercise and train at the operational and strategic levels of war as well as conduct networked unit-level training.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Full Combat Mission Training capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605833F.

In FY 2019, PE 0207701F, Full Combat Mission Training, Project 655354, F-16 Block (Blk) 40/50 Mission Training Center (MTC) efforts were transferred to PE 0207133F, F-16, Project 672671, F-16 Blk 40/50 MTC, in order to transfer programmatic responsibilities and funding to the F-16 weapon system team.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

PE 0207701F: Full Combat Mission Training

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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

Date: February 2019

Appropriation/Budget Activity

3600: Research, Development, Test & Evaluation, Air Force I BA 5: System

Development & Demonstration (SDD)

R-1 Program	Element	(Number/Name)
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PE 0207701F I Full Combat Mission Training

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	16.727	1.015	9.797	0.000	9.797
Current President's Budget	8.427	1.015	9.797	0.000	9.797
Total Adjustments	-8.300	0.000	0.000	0.000	0.000
 Congressional General Reductions 	0.000	0.000			
 Congressional Directed Reductions 	-8.000	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 	-0.300	0.000			
Other Adjustments	0.000	0.000	0.000	0.000	0.000

Change Summary Explanation

FY18:

- -\$8.000M for forward financing
- -\$0.300M for SBIR Transfer

Exhibit R-2A, RDT&E Project J	ustification	: PB 2020 A	Air Force							Date: Febr	uary 2019	
Appropriation/Budget Activity 3600 / 5					_		t (Number/ ombat Miss	•	Project (N 655012 / F		n e) Mission Tra	ining
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
655012: Full Combat Mission Training	-	0.000	1.015	9.797	0.000	9.797	9.846	7.010	7.138	7.266	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

B Accomplishments/Planned Programs (\$ in Millions)

Full Combat Mission Training (FCMT) supports Air Force Distributed Mission Operations (DMO) and Live-Virtual-Constructive (LVC) integration. DMO is an operational readiness initiative enabling the USAF to exercise and train at the operational and strategic levels of war while facilitating unit-level training. FCMT funding provides research in areas benefiting the AF DMO/LVC environment as a whole. Provides research and development to facilitate integration of fielded and newly acquired, Air Force owned training devices into DMO/LVC networks. Enhances the quality of training for the systems added to the network. Enables aircrews to network with LVC components to form the integrated DMO battlespace. Links geographically distributed high-fidelity combat and combat support training devices including Command and Control and Intelligence, Surveillance, and Reconnaissance systems. Develops, demonstrates and inserts multi-level security capability. This capability allows the warfighters at home station to exercise and train at the operational and strategic levels of war as well as conduct networked unit-level training.

B. Accomplishments/Planned Programs (\$\pi\$ in \text{willions})	FY 2018	FY 2019	FY 2020
Title: FCMT Cross Domain Solutions (CDS)	0.000	0.286	1.714
Description: Development, demonstration, and insertion of multi-level security (MLS) capability.			
FY 2019 Plans: - Continue accreditation for coalition rule sets - Complete fourth to fifth generation MLS rule development for routine Live, Virtual and Constructive (LVC) environment integration - Develop updates for cross domain rule sets			
 FY 2020 Plans: Continue accreditation for coalition rule sets Continue fourth to fifth generation MLS rule development for routine LVC environment integration Develop updates for cross domain rule sets Validate CDS at upgraded classification/program levels with local Air Force Research Laboratory space boundary 			
FY 2019 to FY 2020 Increase/Decrease Statement: FY 2020 increase due to advancements in integrating CDS rule sets into 4th Gen LVC demonstration. Further risk mitigation work required for 5th Gen integration and classification levels.			
Title: FCMT Develop DMO Capabilities	0.000	0.223	4.594

PE 0207701F: Full Combat Mission Training Air Force

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EV 2020

Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force		Date: I	ebruary 2019)
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207701F I Full Combat Mission Training	Project (Number/ 655012 / Full Com		raining
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
Description: Development, demonstrations, studies and insertions continuation training strategies.	of DMO/LVC related technologies and proficiency based			
FY 2019 Plans: - Complete validation of training environment credibility assessment environments. - Continue to develop metrics and tools to measure training proficie. - Conclude demonstration of persistent performance measurement events.	ncy gained during LVC events			
FY 2020 Plans: - Continue validation and accreditation of integrated scenarios and a demonstrate persistent performance measurement and readiness a integration of different data management and tracking methods to start LVC events - Validate MTC code upgrades in testbeds with operators - Bring advanced research training testbeds up to higher classification and F-35) and accomplish accreditations at higher classification and - Develop joint and collation data standards and evaluate data management.	ussessment in 4th to 5th generation LVC events, and evalupport large scale, secure and persistent Joint and Coalion levels to commence full on fighter integration (F-16, Fd program levels	tion		
FY 2019 to FY 2020 Increase/Decrease Statement: FY 2020 increase to further develop validation and accreditation of and validate MTC code upgrades in research testbeds.	integrated scenarios and syllabi across DMO environmer	nts		
Title: FCMT Validation of warfighter seasoning and development of	objective performance enhancements	0.000	0.253	2.10
Description: Studies to assess and validate warfighter seasoning in process; studies to develop objective enhancement and measurement		s		
FY 2019 Plans: - Continue research and development for the integration of F-35, Jo Distributed Mission Operations (DMO) network - Develop common Joint and Coalition data standards for secure, in Conclude evaluation of the integration of different data management persistent Joint and Coalition LVC events	teroperable training at joint and coalition levels of analys	is		

	UNULASSII ILD				
Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force			Date: F	ebruary 2019	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207701F I Full Combat Mission Training		ct (Number/N 2 I Full Comb		raining
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2018	FY 2019	FY 2020
- Begin demonstrations of persistent performance measurement are events	nd readiness assessment in fourth to fifth generation LVC				
FY 2020 Plans: - Continue research and development for the integration of F-35, Jo-Continue interoperability studies to evaluate the training value of finetwork - Continue the validation of rule sets for the LVC environment and esecure LVC events out across joint and coalition players - Continue to develop metrics and tools to measure training proficie	fifth generation interoperable coalition training on the CAF evaluate network architectures and typologies for distributed.				
FY 2019 to FY 2020 Increase/Decrease Statement: FY 2020 increase will further refine and development integration stathe CAF DMO network	andards for 5th Gen, joint service, and coalition Trainers	into			
Title: FCMT Other Network Studies			0.000	0.253	1.38
Description: Research and development to provide for the integral Coalition high-fidelity flight and mission trainers.	tion of fielded and newly introduced, Air Force, Joint and				
FY 2019 Plans: - Continue research and development for the integration of F-35, Jo-Continue interoperability studies to evaluate the training value of finetwork - Develop common Joint and Coalition data standards for secure, in Conclude evaluation of the integration of different data management persistent Joint and Coalition live, virtual, constructive events - Begin demonstrations of persistent performance measurement are events - Develop gateways and CDS to integrate high-fidelity trainers with	fifth generation interoperable coalition training on the CAF interoperable training at joint and coalition levels of analysent and tracking methods to support large scale, secure and readiness assessment in fourth to fifth generation LVC	is ınd			
FY 2020 Plans: - Demonstrate integration of F-35, Joint and Coalition Trainers into - Conclude interoperability studies to evaluate the training value of DMO network - Continue development of common Joint and Coalition data standal levels of analysis	fifth generation interoperable coalition training on the CAI				

PE 0207701F: Full Combat Mission Training Air Force

Exhibit R-2A, RD1&E Project Justification: PB 2020 All Force			Date. F	ebluary 2013	9
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0207701F I Full Combat Mission Training		ct (Number/l 12 / Full Com	,	Fraining
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2018	FY 2019	FY 2020
 Continue demonstrations of persistent performance measurement and events Continue development of gateways and CDS to integrate high-fidelity 	•	.VC			
FY 2019 to FY 2020 Increase/Decrease Statement:					

Accomplishments/Planned Programs Subtotals

FY 2020 increase will further research and development in conducting interoperability studies for 5th gen systems, develop secure

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

Exhibit P 24 PDT8 E Project Justification: PR 2020 Air Force

N/A

Remarks

D. Acquisition Strategy

Each platform joining the DMO/LVC environment selects its own acquisition strategy based on Using Command needs, Economic Analysis, and the magnitude of the training system changes required to provide DMO capability. The initial systems in the DMO/LVC environment; F-15C/E, Airborne Warning and Control System, and F-16 Block 40/50, all required new training systems. Additionally, the Operations and Integration capability was created. The Training Simulation Service (TSS) acquisition strategy was used to meet a portion of these requirements. In the TSS approach, the contractor owns and provides the simulator equipment, maintains simulator concurrency with weapon systems, and has incentives to keep the equipment up to date with simulator and network technologies. Currently fielded and projected Air Force-owned Flight and Mission Training Systems without DMO/LVC capability will be modified using FCMT funds to ensure compatibility with the DMO/LVC environment. To accomplish this, the Air Force Research Laboratory will conduct research/studies to Develop/implement CDS, develop DMO capabilities, validate warfighter seasoning, develop objective performance enhancements, and conduct other network studies.

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.

PE 0207701F: Full Combat Mission Training

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data standards, and integrate the F-35, joint, and coalition partners into the DMO network.

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0.000

1.015

9.797

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force

Appropriation/Budget Activity
3600 / 5

R-1 Program Element (Number/Name)
PE 0207701F / Full Combat Mission
Training
Project (Number/Name)
655012 / Full Combat Mission Training

Support (\$ in Millions	s)			FY 2	2018	FY 2	2019		2020 ise		2020 CO	FY 2020 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	Total Cost	Target Value of Contract
FCMT Cross Domain Solutions (CDS): Development, Testing and insertion of Mufti- level-security protocols, Cross Domain rule set development and accreditation	Various	Air Force Research Lab, 711 Human Performance Wing, Human : Dayton, OH	-	0.000	Jan 2018	0.285	Jan 2019	1.714	Jan 2020	-		1.714	Continuing	Continuing	-
FCMT Develop DMO Capabilities: demonstration, studies and insertion of distributed mission ops related technologies and proficiency based continuation training	Various	Air Force Research Lab, 711 Human Performance Wing : Dayton, OH	-	0.000	Jan 2018	0.223	Jan 2019	4.594	Jan 2020	-		4.594	Continuing	Continuing	-
FCMT Validation of warfighter seasoning and development of objective performance enhancements for DMO/ LVC environment	Various	Air Force Research Lab, 711 Human Performance Wing : Dayton, OH	-	0.000	Jan 2018	0.254	Jan 2019	2.104	Jan 2020	-		2.104	Continuing	Continuing	-
FCMT Other Network Studies: Research and Development to support integration of newly fielded high-fidelity training systems and networks	Various	Air Force Research Lab, 711 Human Performance Wing : Dayton, OH	-	0.000	Jan 2018	0.253	Jan 2019	1.385	Jan 2020	-		1.385	Continuing	Continuing	-
		Subtotal	-	0.000		1.015		9.797		-		9.797	Continuing	Continuing	N/A
			Prior					FV :	2020	FV	2020	FY 2020	Cost To	Total	Target

L	 Jubiolai		0.000	1.013	9.191	-	9.191	Continuing	Continuing	IN/A
										Target
		Prior			FY 2020	FY 2020	FY 2020	Cost To	Total	Value of
		Years	FY 2018	FY 2019	Base	OCO	Total	Complete	Cost	Contract
	Project Cost Totals	-	0.000	1.015	9.797	-	9.797	Continuing	Continuing	N/A

Remarks

PE 0207701F: Full Combat Mission Training Air Force

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thibit R-4, RDT&E Schedule Profile: PB 2020 A	ir For	ce																						2019		
propriation/Budget Activity 00 / 5						PE		7701					ber/N Missic		ne)							ame) at Mis		on Ti	rainii	ng
	F	Y 201	8	F	FY 201	19		FY 2				FY 2	021		ı	FY 20)22			FY 20	023			FY 2	024	
	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
Full Combat Mission Training																										
Develop Multi-Level Security testbed and support testing on 5th Gen systems																										
Develop 4th to 5th generation rule sets for coalition integration																										
Evaluate and assess commercial and government off-the-shelf cross domain solution devices																										
Perform accreditation for cross domain solution rule sets																										
Develop rule sets for routine LVC environment integration																										
Continue to develop CDS rule sets																										
Integrate scenarios and syllabi across DMO environments																										
Develop metrics for routine proficiency evaluations and determine standard format for storing/analyzing proficiency data																										
Create and evaluate alternative data formats for routinely tracking and storing performance and proficiency data																										
Refine learning managed scenario and integrate with live, virtual, constructive events																										
Validate training environment credibility assessments for an identified set of Air Combat Command Virtual and Constructive Environments																										

							Oit	ICL/	700	/II IL																		
khibit R-4, RDT&E Schedule Profile: PB 2020 Ai	ir Fc	orce	;																			Date	: Fe	brua	ary 2	2019		
ppropriation/Budget Activity 00 / 5								PE		ogra r 7701							me)							ame at M		on Ti	raini	ng
		FY	2018	_		FY	201	19		FY 2			ı		2021				2022			FY 2				FY 2		
	1	2	3	4	1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Develop and integrate After Action Review tools for Mission Training Centers																												
Develop metrics and tools to measure training proficiency gained during LVC events																												
Integrate 5th generation systems into DMO network																												
Conduct interoperability studies to evaluate the training value of fifth generation interoperable coalition training on the CAF DMO network																												
Develop joint and coalition data standards and evaluate data management methods to support live, virtual, and constructive events																												
Evaluation of the integration of different data management and tracking methods to support large scale, secure and persistent Joint and Coalition LVC events.																												
Demonstrate persistent performance measurement and readiness assessment in fourth to fifth generation LVC events																												
Evaluate network architectures and typologies for distributed secure LVC events																												
Develop gateways and cross domain solutions to integrate high-fidelity trainers with Air Force, joint, and coalition networks																												
Evaluate compressed DIS network standards for CDS in DMO																												
Integrate and evaluate multi-domain operations and kill-chain training scenarios for contested environments																												

Exhibit R-4, RDT&E Schedule Profile: PB 2020 Ai	r Force		,					Date	e: Fel	brua	ary 2	2019)	
Appropriation/Budget Activity 3600 / 5	PE 0						Number/Name) Full Combat Mission Training							
	FY 2018	FY 2019	FY 2020	FY 2021	FY	2022		FY 2023		3 F		FY 2	FY 2024	
	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
Evaluate multi-national mission planning and debrief technologies in research training events														
Implement, evaluate, and field technologies aligned with future training strategies for LVC														

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force	Date: February 2019				
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)		
3600 / 5	PE 0207701F I Full Combat Mission	655012 I Full Combat Mission Training			
	Training				

Schedule Details

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Full Combat Mission Training					
Develop Multi-Level Security testbed and support testing on 5th Gen systems	1	2018	4	2018	
Develop 4th to 5th generation rule sets for coalition integration	1	2018	4	2020	
Evaluate and assess commercial and government off-the-shelf cross domain solution devices	1	2018	2	2018	
Perform accreditation for cross domain solution rule sets	3	2018	3	2021	
Develop rule sets for routine LVC environment integration	4	2018	3	2021	
Continue to develop CDS rule sets	1	2018	1	2020	
Integrate scenarios and syllabi across DMO environments	1	2018	1	2019	
Develop metrics for routine proficiency evaluations and determine standard format for storing/analyzing proficiency data	1	2018	2	2018	
Create and evaluate alternative data formats for routinely tracking and storing performance and proficiency data	1	2018	1	2021	
Refine learning managed scenario and integrate with live, virtual, constructive events	3	2018	4	2023	
Validate training environment credibility assessments for an identified set of Air Combat Command Virtual and Constructive Environments	1	2018	1	2019	
Develop and integrate After Action Review tools for Mission Training Centers	1	2018	4	2018	
Develop metrics and tools to measure training proficiency gained during LVC events	3	2018	4	2022	
Integrate 5th generation systems into DMO network	1	2018	3	2020	
Conduct interoperability studies to evaluate the training value of fifth generation interoperable coalition training on the CAF DMO network	1	2018	3	2021	
Develop joint and coalition data standards and evaluate data management methods to support live, virtual, and constructive events	1	2019	2	2023	

PE 0207701F: Full Combat Mission Training Air Force

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force	Date: February 2019		
Appropriation/Budget Activity 3600 / 5	,	- , (umber/Name) Full Combat Mission Training
	Training		

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Evaluation of the integration of different data management and tracking methods to support large scale, secure and persistent Joint and Coalition LVC events.	2	2018	3	2020	
Demonstrate persistent performance measurement and readiness assessment in fourth to fifth generation LVC events	4	2019	2	2024	
Evaluate network architectures and typologies for distributed secure LVC events	1	2018	1	2020	
Develop gateways and cross domain solutions to integrate high-fidelity trainers with Air Force, joint, and coalition networks	3	2019	4	2024	
Evaluate compressed DIS network standards for CDS in DMO	3	2019	4	2024	
Integrate and evaluate multi-domain operations and kill-chain training scenarios for contested environments	2	2020	4	2024	
Evaluate multi-national mission planning and debrief technologies in research training events	2	2020	3	2023	
Implement, evaluate, and field technologies aligned with future training strategies for LVC	3	2019	4	2024	

Exhibit R-2A, RDT&E Project Ju		Date: Febr	uary 2019									
Appropriation/Budget Activity 3600 / 5	, , , ,					(Number/Name) I F-16 Block 40/50 MTC						
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
655354: F-16 Block 40/50 MTC	-	8.427	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.427
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

F-16 Block 40/50 Mission Training Center (MTC) supports the development, acquisition, fielding and integration of high fidelity, DMO capable flight simulators for F-16 Block 40 and 50 weapon systems. Each MTC includes multiple high fidelity Simulator Cockpits, Instructor Operator Stations, a Threat Server and Brief/Debrief and Mission Observation capability. Each is capable of linking to geographically distributed high-fidelity combat and combat support training devices including Command and Control and Intelligence, Surveillance, and Reconnaissance systems. This capability allows the warfighters at home station to exercise and train at the operational and strategic levels of war as well as conduct networked unit-level training. Funds may be used to address emerging and short-notice Diminishing Manufacturing Sources(DMS) issues. DMS efforts to include removal of end-of-life software/hardware within simulators systems and move to a modular, common open system architecture that is sustainable and cyber-resilient. Implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards initiative.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Full Combat Mission Training capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F. and 0605833F.

In FY 2019, PE 0207701F, Full Combat Mission Training, Project 655354, F-16 Blk 40/50 MTC efforts were transferred to PE 0207133F, F-16, Project 672671, F-16 Blk 40/50 MTC, in order to transfer programmatic responsibilities and funding to the F-16 weapon system team.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: F-16 MTC Modification Development	8.427	0.000	0.000
Description: Development and testing of modifications to the F-16 MTC to maintain concurrency with F-16 aircraft.			
FY 2019 Plans: N/A			
FY 2020 Plans:			
N/A			
Accomplishments/Planned Programs Subtotals	8.427	0.000	0.000

PE 0207701F: Full Combat Mission Training Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
3600 / 5	PE 0207701F I Full Combat Mission Training	655354 I F-16 Block 40/50 MTC
C. Other Program Funding Summary (\$ in Millions)		

		•	FY 2020	FY 2020	FY 2020					Cost To	
<u>Line Item</u>	FY 2018	FY 2019	Base	000	<u>Total</u>	FY 2021	FY 2022	FY 2023	FY 2024	Complete	Total Cost
 APAF 05 Line Item 	9.876	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
OTHACF: Other Aircraft											
 APAF 06 Line item 000999: 	0.219	0.000	0.000	-	0.000	0.000	0.000	0.111	0.113	Continuing	Continuing
Initial Spares/Repair Parts										_	

Remarks

In FY 2019, the APAF funds were transferred from Other Aircraft to PE 0207133F, F0160P, in order to transfer programmatic responsibilities and funding to the F-16 weapon system team.

D. Acquisition Strategy

F-16 Block 40/50 MTCs are being developed, fielded, and modified under a competitively awarded Federal Acquisition Regulation Part 15 Supply contract with RDT&E and APAF funds. The MTCs are sustained by Contract Logistic Support using Operations and Maintenance funds. Physical changes to the MTC cockpits required by any Operational Flight Program update will be funded in the F-16 APAF Mod Line.

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.

PE 0207701F: Full Combat Mission Training Air Force

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Exhibit R-3, RDT&E I	Project C	ost Analysis: PB 2	.020 Air F	orce			,					Date:	February	2019			
Appropriation/Budget Activity 3600 / 5												Project (Number/Name) 655354 / F-16 Block 40/50 MTC					
Product Developmen	oduct Development (\$ in Millions)		roduct Development (\$ in Millions)			FY 2	018	FY	2019	FY 2 Ba			2020 CO	FY 2020 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	Total Cost	Target Value of Contract		
F-16 Blk 40/50 Mission Training Center (MTC)	C/Various	L3 Comm, Link Simulation & Training : Arlington, TX	-	8.180	Dec 2017	-		0.000		-		0.000	Continuing	Continuing	-		
		Subtotal	-	8.180		-		0.000		-		0.000	Continuing	Continuing	N/A		
Management Service	es (\$ in M	illions)	llions) FY 2018		018	FY 2019		FY 2020 Base			2020 CO	FY 2020 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	Total Cost	Target Value of Contract		
F-16 Blk 40/50 Mission Training Center (MTC) Program Management Administration- Over Gov't Costs	C/FFP	AFLCMC/WNS AFMC : Dayton, OH	-	0.247	Dec 2017	-		-		-		-	Continuing	Continuing	-		
		Subtotal	-	0.247		-		-		-		-	Continuing	Continuing	N/A		
			Prior Years	FY 2	2018	FY :	2019	FY 2 Ba			2020 CO	FY 2020 Total	Cost To	Total Cost	Target Value of Contract		
	,	Project Cost Totals	-	8.427		0.000		0.000		_		0.000	Continuina	Continuing	N/A		

Remarks

PE 0207701F: Full Combat Mission Training Air Force

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: P	B 2020 Air Force			Date: February 2019					
Appropriation/Budget Activity 3600 / 5		R-1 Program Element (Number/Name) PE 0207701F I Full Combat Mission Training Project (Number/Name) 655354 I F-16 Block 40/50 MTC							
	FY 2018 FY 2018 1 2 3 4 1 2	019 FY 2020 3 4 1 2 3 4	FY 2021 FY 1 2 3 4 1 2	2022 FY 2023 FY 2024 3 4 1 2 3 4 1 2 3 4					
F-16 BLK 40/50	1 2 0 4 1 2	0 4 1 2 0 4	1 2 0 4 1 2						
OFP M7.1+									
OFP M7.2+									

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force	Date: February 2019		
,	,	, ,	umber/Name) -16 Block 40/50 MTC

Schedule Details

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
F-16 BLK 40/50				
OFP M7.1+	1	2018	3	2018
OFP M7.2+	2	2018	4	2018