Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0207701F: Full Combat Mission Training

BA 5: Development & Demonstration (SDD)

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	77.362	79.807	57.393	0.000	57.393	34.838	40.573	28.361	27.486	Continuing	Continuing
655012: Full Combat Mission Training	77.362	21.850	14.154	0.000	14.154	14.039	14.449	14.740	15.139	Continuing	Continuing
655354: F-16 Block 40/50 MTC	0.000	57.957	43.239	0.000	43.239	20.799	26.124	13.621	12.347	Continuing	Continuing

A. Mission Description and Budget Item Justification

Full Combat Mission Training 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. Networked LVC components form the integrated DMO battlespace by linking geographically distributed high fidelity combat and combat support training devices including Command and Control (C2) and Intelligence, Surveillance, and Reconnaissance (ISR) systems. RDT&E for Full Combat Mission Training is funded in Budget Activity 5, System Development and Demonstration. BPAC 5012, FCMT, efforts are focused on development, demonstration, and transitioning of critical functions associated with the DMO/LVC network and linked simulators. BPAC 5354, F-16 Block 40/50 MTC, efforts are focused on development and demonstration of the F-16 Block 40/50 Mission Training Centers (MTC).

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	135.152	89.568	0.000	0.000	0.000
Current President's Budget	77.362	79.807	57.393	0.000	57.393
Total Adjustments	-57.790	-9.761	57.393	0.000	57.393
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	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
 Other Adjustments 	-57.790	-9.761	57.393	0.000	57.393

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Forc	ee ee	DATE : February 2010
APPROPRIATION/BUDGET ACTIVITY 1600: Research, Development, Test & Evaluation, Air Force 13A 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0207701F: Full Combat Mission Training	
Change Summary Explanation FY09: Decreased by Air Force Reprogramming action for higher programming action for higher programm	riorities	
FY10: Increased to fully fund F-16 trainer development and to integor Decreased by Congressional Program Reduction	grate additional platforms and networks	
FY11: N/A		

DATE: February 2010

Exhibit IX-2A, IXD I &E I Toject 3u	Still Cation.	D ZUTT AII T	OI CE						DAIL. 1 GD	ruary 2010			
APPROPRIATION/BUDGET ACT 3600: Research, Development, Te BA 5: Development & Demonstrate	st & Evaluatio	n, Air Force			IOMENCLA 1F: <i>Full Con</i>	TURE nbat Mission	Training	PROJECT 655012: <i>Fu</i>	II Combat M				
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate		Total Cost		
655012: Full Combat Mission Training	77.362	21.850	14.154	0.000	14.154	14.039	14.449	14.740	15.139	Continuing	Continuing		
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0				

A. Mission Description and Budget Item Justification

Fyhibit R-24 RDT&F Project Justification: PR 2011 Air Force

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. FY11 FCMT funding provides research in areas benefiting the AF DMO/LVC environment as a whole. Provides Mission Essential Competency studies and contract administration for new systems that support the initial Combat Air Forces (CAF) DMO/LVC capability. Provides research and development to facilitate integration of fielded and newly acquired, Air Force owned, aircraft 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 (C2) and Intelligence, Surveillance, and Reconnaissance (ISR) systems. Develops, demonstrates and inserts multi-level security 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 Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Development, demonstration and insertion of multi-level security capability.	2.950	3.785	1.872	0.000	1.872
FY 2009 Accomplishments: In FY 2009: Cross Domain Solution (CDS) for F-16 MTC					
FY 2010 Plans: In FY 2010: CDS for F-15E					
FY 2011 Base Plans: In FY 2011: Continue CDS for F-15E					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0207701F: Full Combat Mission	Training	PROJECT 655012: <i>Fu</i>	ıll Combat Mı	ission Trainir	ng
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: Continue development, demonstration, studies technologies and proficiency based continuation training strategies		4.950	6.943	5.592	0.000	5.592
FY 2009 Accomplishments: In FY 2009: Includes, but is not limited to, common databases enhanced Brief/Debrief capabilities, Mission Essential Competer Continue network re-architecture initiative						
FY 2010 Plans: In FY 2010: Continue network re-architecture initiative						
FY 2011 Base Plans: In FY 2011: Continue network re-architecture initiative						
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: Studies to assess and validate warfighter season accreditation of portions of this experiencing process.	oning required in continuation training and	1.000	1.000	1.022	0.000	1.022
FY 2009 Accomplishments: In FY 2009: Process utilizes the Mission Essential Competent Operations (DMO)/Live, Virtual, Constructive (LVC) training ar development and field test of competency-based scenarios wire Eglin AFB; Validated methods to use MEC products for assess fidelity; Developed methods to permit competency-based fidelity a training environment certification process; Started development	nd rehearsal environment. Completed th F-15C mission training center at sing live and virtual training environment ity assessments to be used as part of					

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R-1 Line Item #92 Page 4 of 24

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force **DATE:** February 2010 **PROJECT** APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE 655012: Full Combat Mission Training 3600: Research, Development, Test & Evaluation, Air Force PE 0207701F: Full Combat Mission Training BA 5: Development & Demonstration (SDD) B. Accomplishments/Planned Program (\$ in Millions) FY 2011 FY 2011 FY 2011 **FY 2009 FY 2010** Base oco Total training scenarios; Started definition of MEC products for remotely piloted aircraft and mission areas associated with Global Hawk, Predator, and Reaper. FY 2010 Plans: In FY 2010: Refine methodology for linking knowledge, skills, and experiences to gaps and to training opportunities; completion of F-22 and F-15C MEC data and results; start F-15E and F-16 multirole MEC, and Joint Terminal Attack Control (JTAC) Close Air Support (CAS) MEC refresher; Complete definition and gap analyses for remotely piloted aircraft and mission areas; Develop competencybased scenarios for remotely piloted aircraft; Develop scenarios and syllabi for close air support live and virtual training. FY 2011 Base Plans: In FY 2011: Complete F-15E and F-16 multirole process and results. Complete JTAC CAS MEC refresher; Refine development of MEC process for schoolhouse tactical training using A-10 and F-22 mission areas and schoolhouses as initial domains; Refine development of methods to link schoolhouse initial competency sets and MEC ops definitions and data; Validate distributed close air support distributed mission training using competency-based methods in live and virtual environments. FY 2011 OCO Plans: In FY 2011 OCO: N/A MAJOR THRUST: Studies to develop objective performance enhancement and measurement tools, for use 0.000 1.000 1.000 1.022 1.022 in the DMO/LVC environment. FY 2009 Accomplishments: In FY 2009: Completed development of visualization tools for reporting and summarizing individual and team performance and readiness data; Developed methods for team assessment in Air and Space Operations Centers; Started development of a common user interface for linking data from live and virtual environments together; Demonstrated performance data analysis visualization for actual

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R-1 Line Item #92 Page 5 of 24

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

APPROPRIATION/BUDGET ACTIVITY

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

ART: February 2010

R-1 ITEM NOMENCLATURE
PE 0207701F: Full Combat Mission Training
655012: Full Combat Mission Training

FY 2011

Total

FY 2011

Base

FY 2009

FY 2010

FY 2011

oco

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

aircraft, instrumented range, and virtual simulation data; Completed initial evaluation of performance measurement in routine ops applications; Developed metrics to support Boeing Project Alpine LVC integration events; Started development of methods for rapidly authoring metrics and readiness measures for customized assessments in ops squadrons; Started development of cross mission metrics and measures to support USAF Nellis LVC field evaluation.

FY 2010 Plans:

In FY 2010: Develop and integrate metrics and measurement reporting method for F-15C and F-22 performance measurement. Develop and refine data displays and visualization for air combat assessment. Complete development of authoring tools to permit ops definition of metrics and measures. Begin development of methods to routinely track and certify readiness and performance across live and virtual systems and events for operational squadrons; Demonstrate persistent performance measurement in F-15C and F-22 mission training centers; Demonstrate cross mission LVC performance assessment; Conduct field evaluation of persistent performance measurement at Aviano AB, IT .

FY 2011 Base Plans:

In FY 2011:Validate air-to-air and air-to-ground performance measures and visualization tools; Complete field evaluations of persistent readiness assessment in F-15C, F-16, and F-22 live and virtual contexts; Demonstrate integrated Close Air Support common metrics for ground controllers and air platforms; Validate metrics and visualization tools for remotely piloted aircraft readiness assessment; Complete validation of authoring tools to rapidly develop metrics for ops unit assessments and certification.

FY 2011 OCO Plans: In FY 2011 OCO: N/A

MAJOR THRUST: Studies to identify training and rehearsal gaps in DMO/LVC architecture based on current weapons system and operational tactics, training, procedures (TTPs).

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0207701F: Full Combat Mission Training 655012: F

BA 5: Development & Demonstration (SDD)

655012: Full Combat Mission Training

FY 2011

Base

FY 2009

FY 2010

FY 2011

oco

FY 2011

Total

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

impact of alternate mixes of live and virtual training in ops squadrons.

FY 2009: Completed field evaluation of competency-based training and integration of performance measurement methods in commercial mission training center virtual environment; Completed CSAF-requested field study to evaluate alternative mixes of live and virtual training across tactical and ISR aircraft and mission areas; Developed methodology to routinely track impacts associated with changes to the mix of live and virtual training in ops; Completed skill-decay study evaluating alternative ops strategies for reducing tactical combats skill decay in the absence of practice; Completed initial fidelity study of full-fidelity and less-than full fidelity virtual environments; started design of field evaluation study for Nellis LVC operational demonstration; Started design of four field studies to evaluate the

FY 2010 Plans:

In FY 2010: Start Nellis LVC field study; implement study designs for alternate mixes of live and virtual training with F-15C and F-22 ops units; Develop LVC field evaluation design for integrated USAF and RAAF coalition mission training; Complete distributed mission training study with Joint Terminal Attack and Control (JTAC) and remotely piloted aircraft virtual training; Complete initial ops evaluation of less-than-full-fidelity virtual training at Aviano AB, IT; Develop evaluation study design for integrated air combat and command and control LVC training.

FY 2011 Base Plans:

In FY 2011: Complete initial USAF and RAAF coalition mission training evaluation; Conduct field evaluation of integrated performance measurement and sortie tracking methods for ops readiness certification; Conduct additional studies of alternate mixes of live and virtual training with F-15E and F-16 ops squadrons; Complete second skill decay study evaluating impacts of different mixes of live and virtual training on combat skill retention and decay; Complete initial evaluation of Nellis LVC operational assessment. Integrate data into next spiral of Nellis LVC operational assessment; Demonstrate common aircraft, range, and virtual environment performance measurement and tracking in Nellis LVC ops assessment.

	ONOLAGOII ILD					
Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0207701F: Full Combat Mission Trai		PROJECT 655012: <i>Fu</i>	ll Combat Mi	ission Trainir	ng
B. Accomplishments/Planned Program (\$ in Millions)		·				
	F	Y 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: Research and development to provide for the introduced, Air Force high-fidelity flight and mission trainers.	integration of fielded and newly	25.841	3.167	1.968	0.000	1.968
FY 2009 Accomplishments: In FY 2009: Includes but is not limited to studies, demonstra integration of Air Operation Center (AOC), A-10, B-1, B-2, B-5, F-22, F-35, E-8, EC-130, Joint Terminal Control Training and Ground Simulation System (JTAGSS), CSAR-X, HC-130, MC one RC-135, one F-22 and the USAFE Warrior Prep Center	52, Control and Reporting Center (CRC) I Rehearsal (JTCTR), Joint Theater Air-					
FY 2010 Plans: In FY 2010: Study and demonstrate DMO network conversio	n to the GIG					
FY 2011 Base Plans: In FY 2011: Continue study and demonstration of the DMO n	network conversion to the GIG					
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: Research for and development of DMO capab capability currently provided by training simulation service contract		34.914	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: In FY 2009: Begin development of F-16 flight simulators						
FY 2010 Plans:						

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In FY 2010: N/A

Exhibit R-2A, RDT&E Project Just	stification: PB	2011 Air Fo	rce						DATE: Feb	ruary 2010	
APPROPRIATION/BUDGET ACT 3600: Research, Development, Te. BA 5: Development & Demonstrati	st & Evaluation	, Air Force	I .	R-1 ITEM NO PE 0207701	_	_	PROJECT 655012: <i>Fu</i>	F Full Combat Mission Training			
B. Accomplishments/Planned Pr	rogram (\$ in M	lillions)									
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<i>FY 2011 Base Plans:</i> In FY 2011: N/A											
FY 2011 OCO Plans: In FY 2011 OCO: N/A											
MAJOR THRUST: Program Office	e support						5.707	4.955	1.656	0.000	1.656
FY 2009 Accomplishments: In FY 2009: Program Office	support										
FY 2010 Plans: In FY 2010: Program Office	support										
FY 2011 Base Plans: In FY 2011: Program Office	support										
FY 2011 OCO Plans: In FY 2011 OCO: N/A											
			Accomplish	ments/Plann	ed Program	s Subtotals	77.362	21.850	14.154	0.000	14.154
C. Other Program Funding Sumr	mary (\$ in Mill	ions)									
	• .	<i>-</i>	FY 2011	FY 2011	FY 2011					Cost To	
Line Item • PE 0207701F: Full Combat Mission Training, Aircraft	FY 2009 40.703	FY 2010 0.000	<u>Base</u> 0.000	<u>OCO</u> 0.000	<u>Total</u> 0.000	FY 2012 0.000	FY 2013 0.000		FY 2015 0.000	O.000	0.000
Procurement, AF	143.942	189.518	212.588	0.000	212.588	194.324	244.178	272.178	271.396	0.000	0.000

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R-1 Line Item #92 Page 9 of 24

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

3600: Research, Development, Test & Evaluation, Air Force

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

PE 0207701F: Full Combat Mission Training

655012: Full Combat Mission Training

BA 5: Development & Demonstration (SDD)

FY 2011 FY 2011 **FY 2011**

Cost To

Line Item

FY 2009 FY 2010

OCO Base

Total

FY 2012 FY 2013

FY 2014 FY 2015 Complete Total Cost

• PE 0207701F (1): Full Combat Mission Training, O & M, AF

D. Acquisition Strategy

Each platform joining the Distributed Mission Operations (DMO)/ Live-Virtual-Constructive (LVC) environment selects its own acquisition strategy based on using command needs, business case analysis (BCA) and the magnitude of the training system changes required to provide DMO capability. The initial systems in the DMO/ LVC environment; F-15C, AWACS, F-16 Block 40/50 and F-15E; all required new training systems. In addition, the Operations and Integration capability had to be 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. The FY07 NDAA specifically limited the Air Force's ability to acquire military flight simulators with service contracts. As a result, training capability currently provided on the F-16 MTC is being replaced under a separate program with training provided with procured flight simulators. (Acquisition of the F-16 Block 40/50 MTCs is detailed under the 655354 BPAC in this document.) The FY08 NDAA language allows continued use of the service contract approach on systems where it was already in use. 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. Additional DMO capable trainers will be acquired for those systems where current quantities are inadequate to meet training requirements using FCMT funds.

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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0207701F: Full Combat Mission Training

PROJECT

655012: Full Combat Mission Training

Product Development (\$ in Millions)

				FY 2010		FY 2 Ba	-	FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
677 AESG AFMC	C/Various	677 AESG AFMC Wright Patterson AFB, OH	111.210	9.102		8.832		0.000		8.832	Continuing	Continuing	0.000
478 AESW (F-22)	SS/CPIF	478 AESW AFMC Wright Patterson AFB, OH	69.300	0.200		0.200		0.000		0.200	0.000	69.700	0.000
507 MASSG (B-52)	SS/FFP	507 MASSG Hill AFB, UT	4.800	0.200		0.200		0.000		0.200	0.000	5.200	0.000
677 AESG/SYCB (B-1, B-2 & Joint Terminal Control Training and Rehearsal System [JTC TRS]))	SS/CPIF	677 AESG/SYCB AFMC Wright Patterson AFB, OH	22.800	4.393		0.200		0.000		0.200	0.000	27.393	0.000
		Subtotal	208.110	13.895		9.432		0.000		9.432			0.000

Remarks

Support (\$ in Millions)

				FY 20	010	FY 2 Ba		FY 2		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
- Air Force Research Lab Human Effectiveness Directorate	C/CPFF	AFRL/HEA Mesa, AZ	14.402	3.000		3.066		0.000		3.066	Continuing	Continuing	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

3600: Research, Development, Test & Evaluation, Air Force

PE 0207701F: Full Combat Mission Training

655012: Full Combat Mission Training

BA 5: Development & Demonstration (SDD)

Support (\$ in Millions)

		FY 2010			FY 2011 Base		FY 2011 OCO						
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	14.402	3.000		3.066		0.000		3.066			0.000

Remarks

Test and Evaluation (\$ in Millions)

				FY 2	FY 2010		FY 2011 Base		FY 2011 OCO				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
No text provided	TBD/TBD	No text provided No text provided	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
		Subtotal	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000

Remarks

Management Services (\$ in Millions)

					010	FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office Support	C/Various	677 AESG AFMC	25.077	4.955		1.656		0.000		1.656	Continuing	Continuing	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

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

PE 0207701F: Full Combat Mission Training

655012: Full Combat Mission Training

Management Services (\$ in Millions)

				FY 2	010	FY 2 Ba	-	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Wright Patterson AFB, OH											
		Subtotal	25.077	4.955		1.656		0.000		1.656			0.000

Remarks

	Total Prior Years Cost	FY 2010		2011 ise	FY 2	-	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	247.589	21.850	14.154		0.000		14.154			0.000

Remarks

Total Prior Years Cost may include only FY 2009 data.

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

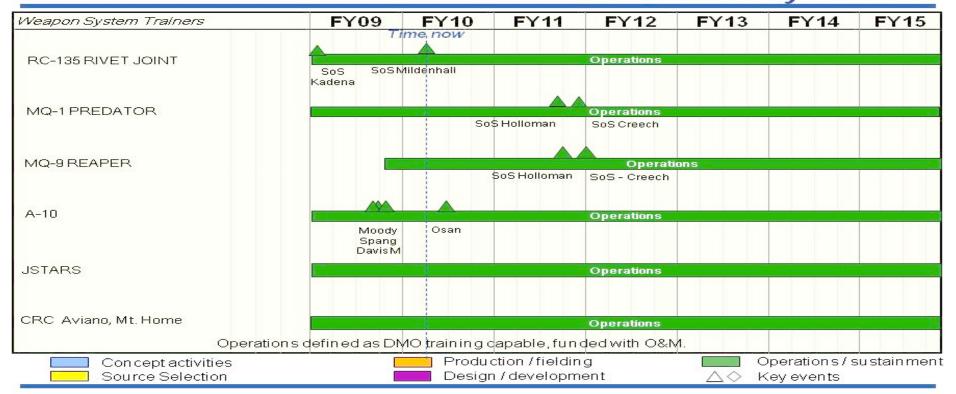
PE 0207701F: Full Combat Mission Training

PROJECT

655012: Full Combat Mission Training



DMO CAF Schedule AF Owned Systems II



R-1 Line Item #92 Page 14 of 24

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

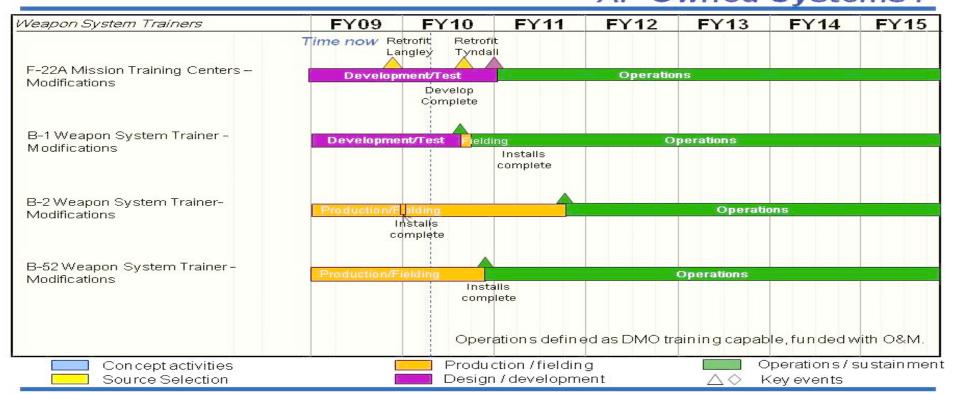
PE 0207701F: Full Combat Mission Training

PROJECT

655012: Full Combat Mission Training



DMO CAF Schedule AF Owned Systems I



R-1 Line Item #92 Page 15 of 24

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

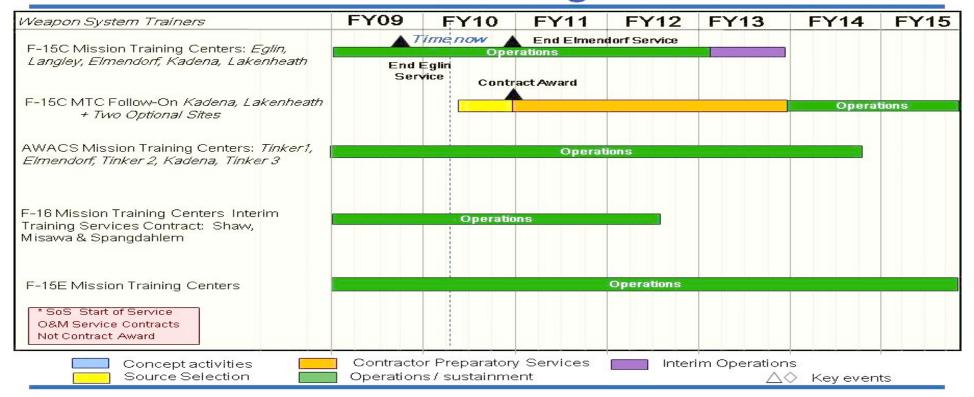
PE 0207701F: Full Combat Mission Training

PROJECT

655012: Full Combat Mission Training



DMO CAF Schedule Training Service Contracts



R-1 Line Item #92 Page 16 of 24

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

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

PE 0207701F: Full Combat Mission Training
655012: Full Combat Mission Training

Schedule Details

	St	art	E	nd
Event	Quarter	Year	Quarter	Year
F-22 DMO Development Complete	4	2010	4	2010
F-22 Retrofit: Langley	4	2009	4	2009
F-22 Retrofit: Tyndall	3	2010	3	2010
B-1 Mod kits installed	3	2010	3	2010
B-2 Mod kits installed	4	2009	4	2009
B-2 Operations begin	4	2011	4	2011
B-52 Mod kits installed	4	2010	4	2010

DATE: February 2010

APPROPRIATION/BUDGET ACTIV 3600: Research, Development, Tes BA 5: Development & Demonstration	t & Evaluatio	n, Air Force			NOMENCLA 11F: Full Con		Training	PROJECT 655354: F-16 Block 40/50 MTC			
COST (\$ in Millions) FY 2009 FY 2010 Base					FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To	Total

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
655354: F-16 Block 40/50 MTC	0.000	57.957	43.239	0.000	43.239	20.799	26.124	13.621	12.347	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

FY08 and FY09 funding contained in BPAC 655012. Separate BPAC, 655354, F-16 Block 40/50 MTC was established as a separate program on the Non-Space programs list.

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

F-16 Block 40/50 Mission Training Center (MTC) supports the development, acquisition, fielding and sustainment of high fidelity, Distributed Mission Operations (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 (C2) and Intelligence, Surveillance, and Reconnaissance (ISR) systems. 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 Program (\$ in Millions)

FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
0.000	56.564	41.239	0.000	41.239
			FY 2009 FY 2010 Base	FY 2009 FY 2010 Base OCO

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0207701F: Full Combat Mission Training

PROJECT

655354: F-16 Block 40/50 MTC

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans:					
In FY 2011: Continue F-16 MTC development, test and fielding					
FY 2011 OCO Plans:					
In FY 2011 OCO: N/A					
Major Thrust: Program Office support	0.000	1.393	2.000	0.000	2.000
FY 2009 Accomplishments:					
In FY2009: N/A					
FY 2010 Plans:					
In FY2010: Program office support					
FY 2011 Base Plans:					
In FY2011: Program office support					
FY 2011 OCO Plans:					
In FY2011 OCO: N/A					
Accomplishments/Planned Programs Subtotals	0.000	57.957	43.239	0.000	43.239

PROJECT

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force PE 0207701F: Full Combat Mission Training 655354: F-16 Block 40/50 MTC

BA 5: Development & Demonstration (SDD)

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

			FY 2011	<u>FY 2011</u>	<u>FY 2011</u>					Cost Io	
<u>Line Item</u>	FY 2009	FY 2010	<u>Base</u>	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• PE 0207701F: <i>F-16 Block 40/50</i>	0.000	51.814	53.953	0.000	53.953	49.358	6.561	1.774	1.811	0.000	0.000

MTC; Aircraft Procurement, AF

D. Acquisition Strategy

F-16 Block 40/50 MTCs are being developed and fielded under a competitively awarded FAR Part 15 Supply contract with RDT&E and APAF funds. The MTCs will be sustained by CLS using Operations and Maintenance funds.

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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PROJECT

3600: Research, Development, Test & Evaluation, Air Force

PE 0207701F: Full Combat Mission Training

655354: F-16 Block 40/50 MTC

Product Development (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
L3 Comm	C/Various	LINK SIMULATION & TRAINING Arlington,TX	0.000	56.564		41.239		0.000		41.239	Continuing	Continuing	0.000
		Subtotal	0.000	56.564		41.239		0.000		41.239			0.000

Remarks

FY 08 & FY09 Funding contained in BPAC 655012.

Management Services (\$ in Millions)

management oci vio	· σο (ψ ιιι ι ι ιι	1110113)											
				FY 2	:010	FY 2 Ba	2011 ise	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office Support	TBD/TBD	677 AESG AFMC Wright Patterson AFB, OH	0.000	1.393		2.000		0.000		2.000	Continuing	Continuing	0.000
		Subtotal	0.000	1.393		2.000		0.000		2.000			0.000

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0207701F: Full Combat Mission Training

PROJECT

655354: F-16 Block 40/50 MTC

	Total Prior Years Cost	FY 2010		2011 Ise	FY 2	2011 CO	FY 2011 Total	Cost To	Total Cost	Target Value of Contract
	Tears Cost	1 1 2010	D6	136	O.	30	Iotai	Complete	Total Cost	Contract
Project Cost Totals	0.000	57.957	43.239		0.000		43.239			0.000

Remarks

Total Prior Years Cost may include only FY 2009 data.

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

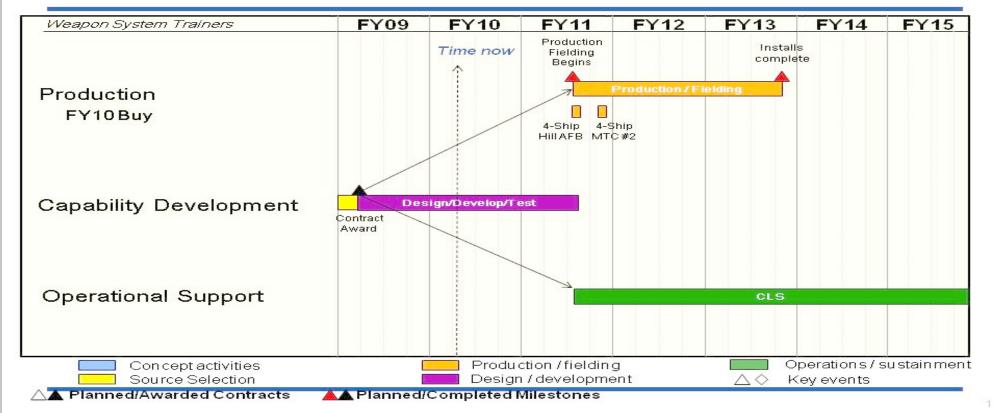
PE 0207701F: Full Combat Mission Training

PROJECT

655354: F-16 Block 40/50 MTC



F-16 Block 40/50 MTC Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0207701F: Full Combat Mission Training

PROJECT

655354: F-16 Block 40/50 MTC

Schedule Details

	Start		End	
Event	Quarter	Year	Quarter	Year
F-16 Mission Training Center Recompete Contract Award	1	2009	1	2009
Hill AFB UT Fielded	3	2011	3	2011
F-16 MTC #2 Fielded	4	2011	4	2011