PE NUMBER: 0207701F

PE TITLE: Full Combat Mission Training

#### DATE Exhibit R-2, RDT&E Budget Item Justification February 2006 BUDGET ACTIVITY PE NUMBER AND TITLE 05 System Development and Demonstration (SDD) 0207701F Full Combat Mission Training FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Cost to Total Cost (\$ in Millions) Estimate Estimate Complete Actual Estimate Estimate Estimate Estimate Total Program Element (PE) Cost 9.756 26.046 32.243 35.768 15.340 19.038 22.631 Continuing **TBD** Distributed Mission Training (DMT) 0.000 19.310 **TBD** 4673 24.412 29.138 9.240 12.844 16.399 Continuing 5012 **Full Combat Mission Training** 9.756 6.736 7.831 6.630 6.100 6.194 6.232 Continuing **TBD**

#### (U) A. Mission Description and Budget Item Justification

Full Combat Mission Training supports Air Force Distributed Mission Operations (DMO). 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 Live-Virtual-Constructive components form the integrated DMO battlespace by linking geographically distributed high fidelity combat and combat support training devices including C2 and ISR systems.

### (U) B. Program Change Summary (\$ in Millions)

		<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(	(U) Previous President's Budget	5.894	26.423	20.432
(	(U) Current PBR/President's Budget	9.756	26.046	32.243
(	(U) Total Adjustments	3.862	-0.377	
(	(U) Congressional Program Reductions			
ı	Congressional Rescissions	-0.103	-0.377	
ı	Congressional Increases	4.900		
1	Reprogrammings	-0.800		
ı	SBIR/STTR Transfer	-0.135		

### (U) Significant Program Changes:

FY 05 Funding:

- Increased by Congressional Add for ANG F-16 Block 30 MTCs
- Decreased by Congressional Rescissions, SBIR, And below threshold reprogramming

FY 06 Funding

- Decreased by Congressional Reduction

FY 07 Funding

-AF increase to fully fund F-22 integration and required Multi-Level Security efforts

R-1 Shopping List - Item No. 101-2 of 101-12

EX7.2007

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				UNCLAS	SIFIED					
		nibit R-2a, F	RDT&E Pro					DATE	February	2006
	GET ACTIVITY  System Development and Demonstrat	ion (SDD)			PE NUMBER AND <b>0207701F Full</b> <b>Training</b>			PROJECT NUMI 4673 Distribu (DMT)		Training
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	Cost (\$ III IVIIIIOIIS)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
467		0.000	19.310	24.412		9.240	12.844	16.399	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		
<b>(U)</b>	A. Mission Description and Budget Item Air Force Distributed Mission Training (Dl									
	owned, aircraft training devices into Distrib aircrews to network with Live-Virtual-Con combat support training devices including ( war as well as conduct networked unit-leve	structive compo	onents to form t	the integrated	DMO battlespace	ce. Links geog	raphically dist	ributed, high-fi	delity combat a	and
( <b>U</b> )	B. Accomplishments/Planned Program	-					<u>FY</u>	<u> 2005</u>	FY 2006	FY 2007
(U)	Study, research and develop solutions to n	nulti-service sta	indards, test ass	set implement	ation and platfor	m specific		0.000	0.110	6.791
(U)	multi-level security issues Research and development to provide for high-fidelity flight and mission trainers. In integration of Air Operation Center [AOC E-8, EC-130, Joint Terminal Attack Cont	ncludes but is no ], A-10, B-1, B	ot limited to stu- -2, B-52, Contr	idies and deve ol and Report	elopment to prov ting Center [CR	ride for C] F-22 F-35,			0.400	1.321
	[JTAGSS])									
(U) (U)	Research and development to provide for Total Cost	the DMO integr	ration of F-22	high-fidelity f	flight trainers.			0.000	18.800 19.310	16.300 24.412
(U)	C. Other Program Funding Summary (\$	in Millions)								
				Y 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U)	PE 0207701, Full Combat Mission Training, Aircraft Procurement, AF	0.000	0.000	10.598	80.632	37.520	19.038	33.245	Continuing	TBD
(U)	PE 0207701, Full Combat	0.000	0.000	0.000	8.305	0.000	4.631	4.615	Continuing	TBD
( <b>U</b> )	D. Acquisition Strategy Each platform joining the Distributed Miss:	ion Operations	(DMO) enviror	nment selects	its own acquisiti	ion strategy bas	ed on using co	ommand needs,	business case	
Prc	ject 4673	-			n No. 101-3 of 101-		-			PE 0207701F)

Exhibit R-2a, RDT&E Project Ju	stification		DATE February 2006
BUDGET ACTIVITY  05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207701F Full Combat Mission Training		T NUMBER AND TITLE istributed Mission Training
considerations and the magnitude of the training system changes required to provid Mission Training Systems will be modified to ensure compatibility with the DMO where current quantities are inadequate to meet training requirements	de DMO capability. Fielded and newly acquir	red, Air Force	
			Eyhihit R-2a (PE 0207701F)

	E	xhibit R-	3, RDT&E P	roject Co	st Anal	ysis						ruary 20	06
	OGET ACTIVITY  System Development and Demons	tration (SD	D)				TITLE I Combat	Mission	4		NUMBER AND Pributed M		ining
	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(0)	Product Development Training System Product Group		Training Systems Product Group, AFMC, Wright Patterson AFB, OH		0.000		0.510		8.112		Continuing	TBD	
	F-22 System Program Office		F-22 System Program Office, AFMC, Wright Patterson AFB,				18.800		16.300		Continuing	TBD	
(U)	Subtotal Product Development Remarks: Support		ОН	0.000	0.000		19.310		24.412		Continuing	TBD	0.000
(II)	Subtotal Support Remarks: Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.000
	Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.000
(U)	Management Subtotal Management Remarks:			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.000
(U)	Total Cost			0.000	0.000		19.310		24.412		Continuing	TBD	0.000
Pr	oject 4673		R-	1 Shopping List	- Item No. 1	01-5 of 101	-12				Exh	ibit R-3 (PE 0	)207701F)

Exhibit R-4, RDT&E Schedule F	Profile	DATE February 2006
	0207701F Full Combat Mission	 F NUMBER AND TITLE  Stributed Mission Training

# Exhibit R-4: BPAC 4673 Distributed Mission Training (Distributed Mission Operations)

S New Construction in the	FY 04 FY 05					FY 06 FY 07					FY 08				FY 09									
Fiscal Year	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Study, research and develop solutions to multi-service standards, test asset implementation and platform specific multi-level security issues		5,000					10 to 10			A		-		0,000								0.00		
Research and development to provide for the D MO integration of fielded and newly introduced, Air Force high-fidelity flight and mission trainers. Includes but is not limited to studies and development to provide for integration of AOC, A-10, B-1, B-2, B-52, CRC, F-22, F-35, E-8, EC-130, JTAC and JTAGSS										<b>A</b>		27												
Phase A F–22 DMO requirements definition/ systems	8																							
Phase B: F-22 DMO Development / Test/Retrofit		Š											30	4										

Studies/ Phase Initiated

Δ

Phase Scheduled



Project 4673

R-1 Shopping List - Item No. 101-6 of 101-12

Exhibit R-4 (PE 0207701F)

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Exhibit R-4a, RDT&E So	chedule Detail	DATE <b>Febru</b>	ary 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207701F Full Combat Mission Training	PROJECT NUMBER AND T 4673 Distributed Miss (DMT)	
<ul> <li>(U) Schedule Profile</li> <li>(U) Study, research and develop solutions to multi-service standards, test asse platform specific multi-level security issues (Study initiation)</li> <li>(U) Research and development to provide for the DMO integration of fielded Air Force high-fidelity flight and mission trainers. Includes but is not lim</li> </ul>	and newly introduced, nited to studies and	<u>FY 2006</u> 2Q 2Q	FY 2007
development to provide for integration of AOC, A-10, B-1, B-2, B-52, C EC-130, JTAC and JTAGSS (Study Initiation)  (U) Phase A: F-22 DMO requirements definition/ systems  (U) Phase B: F-22 DMO Development / Test/Retrofit	RC F-22 F-35, E-8,	2Q	2Q 2Q
Project 4673 R-1 Shop	ping List - Item No. 101-7 of 101-12	Exhibit I	R-4a (PE 0207701F)

			UNCLAS	_			DATE		
	Exhibit R-2a	a, RDT&E Pi	oject Justii	rication				February	2006
BUDGET ACTIVITY  05 System Development and Dem	onstration (SDD)		ļ.	PE NUMBER AND 0207701F Full Training		sion	PROJECT NUMI 5012 Full Co		n Training
Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5012 Full Combat Mission Training	9.7	756 6.73	6 7.831	6.630	6.100	6.194	6.232	Continuing	TBD
Quantity of RDT&E Articles		0	0 0	0	0	0	0		
(U) A. Mission Description and Budg Full Combat Mission Training (FC exercise and train at the operational environment as a whole. In additional DMO capability	CMT) supports Air F	Force Distributed s of war while fa	cilitating unit-le	evel training. FO	CMT provides r	esearch in area	as benefiting the	e AF DMO	
(U) B. Accomplishments/Planned P	•					<u>FY</u>	<u> 2005</u>	FY 2006	FY 2007
<ul> <li>(U) Continue development, demonstr</li> <li>(U) Continue development, demonstr</li> <li>continuation training strategies.</li> <li>enhanced Brief/Debrief capabiliti</li> </ul>	ation, studies and in Includes but not lin	sertion of DMO nited to common	related technolo databases, impr	oved image gen	•	,	0.328	1.530	2.536
<ul> <li>(U) RDT&amp;E for the development of a</li> <li>(U) Studies to assess and validate war portions of this experiencing processive environment</li> </ul>	fighter seasoning re	equired/desired in	continuation tr	aining and accre	editation of	)	4.900 0.801	1.000	1.000
(U) Studies to Develop objective perf which will be used for certification					environment,		0.801	1.000	1.000
(U) Identify training and rehearsal gattraining, procedures (TTPs), espe	ps in DMO architect	ture based on cur	rent weapons sy	•	tional tactics,		0.800	1.000	1.000
(U) Continue Program office support	,						2.126	2.206	2.295
(U) Total Cost							9.756	6.736	7.831
(U) C. Other Program Funding Sum	mary (\$ in Million	s)							
	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
(U) PE 0207701, Full Combat Mission Training, O & M, AF	117.377	181.891	197.966	220.441	211.343	218.261	219.994	Continuing	TBD
(U) <u>D. Acquisition Strategy</u> Each platform joining the Distribu	ted Mission Operati	ons (DMO) envi	ronment selects	its own acquisit	ion strategy bas	sed on using co	ommand needs,	business case	
Project 5012		R-1 S	nopping List - Item	n No. 101-8 of 101	-12			Exhibit R-2a (	PE 0207701F)

	UNCLASSII ILD		
Exhibit R-2a, RD	T&E Project Justification		DATE February 2006
BUDGET ACTIVITY  05 System Development and Demonstration (SDD)	PE NUMBER AND TIT 0207701F Full Co Training		CT NUMBER AND TITLE Full Combat Mission Training
considerations and the magnitude of the training system chang Block 40/50 and F-15E all required new training systems. In (TSS) acquisition strategy was used to meet these requirement concurrency with weapons system, and has incentives to keep	ges required to provide DMO capability. The addition, the Operations and Integration capa is. In the TSS approach, the contractor owns	ability had to be created. The Tra and provides the simulator equi	aining Simulation Service
Project 5012	R-1 Shopping List - Item No. 101-9 of 101-12		Exhibit R-2a (PE 0207701F)

E	Exhibit R-	3, RDT&E F	Project Co	st Anal	ysis				D.	ATE <b>Feb</b> i	ruary 20	06
BUDGET ACTIVITY  05 System Development and Demons	tration (SD	D)				O TITLE I Combat	Mission			NUMBER AND Combat N		aining
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	<u>Farget Value</u> of <u>Contract</u>
(U) Product Development - ASC, Training Products Systems Group - AFRL Human Effectiveness Directorate, Warfighter Training Division		- Training Systems Product Group, AFMC, Wright Patterson AFB, OH - AFRL/HEA, Mesa, AZ		5.228		1.530		2.536		Continuing	TBD	
Subtotal Product Development Remarks:		wiesa, AZ	0.000	5.228		1.530		2.536		Continuing	TBD	0.000
(U) Support - Air Force Research Lab Human Effectiveness Directorate		AFRL/HEA, Mesa, AZ 505 DWG, Kirtland AFB, NM		2.402		3.000		3.000		Continuing	TBD	
Subtotal Support Remarks:			0.000	2.402		3.000		3.000		Continuing	TBD	0.000
(U) Test & Evaluation  Subtotal Test & Evaluation  Remarks:			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.000
(U) Management Program Office Support		Training Systems Product Group, AFMC, Wright Patterson AFB, OH		2.126		2.206		2.295		Continuing	TBD	
Subtotal Management Remarks:		OH	0.000	2.126		2.206		2.295		Continuing	TBD	0.000
(U) Subtotal Remarks:			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.000
(U) Total Cost			0.000	9.756		6.736		7.831		Continuing	TBD	0.000
Project 5012		R	Shopping List	- Item No. 1	01-10 of 10	1-12				Exhi	bit R-3 (PE (	)207701F)

Exhibit R-4, RDT&E Schedule F	Profile	DATE <b>February 2006</b>
	<b>1</b>	 F NUMBER AND TITLE  III Combat Mission Training
	Training	

# Exhibit R-4: BPAC 5012 Full Combat Mission Training (Distributed Mission Operations)

FigurelMann		FY 04		- 13	FY	05	X30 - 1	. 3	FY	06	į.	FY 07				FY 08				FY 09				
Fiscal Year	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AWACS Tinker #2							35						35		8 8				35					
F-16: 2 Ship, Mt Home		•																						
F-16: 4 Ship, Spangdahlem			A	\$ - 8			30	8	-				35		8-3		-2		30;—		8-3	8	-00	Г
F-15C: 4 Ship, Kadena							•						3						3				_(S)	
F-16: 4 Ship, Misawa				4 4									35		4 4				35-				- 15	
AWACS, Kadena																								
AWACS: Tinker #3									8															
F-15C Lakenheath																						Î		
F-15E Mt. Home			Sc. 3				3.0		30.		Ï		3.0				- 33		3.0				900	Г
F-15E Seymour Johnson				S			90	ľ	9				30	_	\$ 3		-8		30		8 3		-90	
F-15E Lakenheath		× -					(3) (6)						23) 35				100		23 85			: 00	_ (S) _ (S)	
F-15E TBD																								

▲ Start of Service

Scheduled Start of Service; Letter of Intent issued to Contractor.

△ Scheduled Start of Service; Letter of Intent not yet issued to Contractor

Note: A number of factors including contract issues, facility availability, multiple level security and others preclude the development of a firm schedule for Start of Service of additional sites beyond FY 07.

Project 5012

R-1 Shopping List - Item No. 101-11 of 101-12

Exhibit R-4 (PE 0207701F)

Exhibit R-4a,	DATE February 200	DATE February 2006	
BUDGET ACTIVITY  05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207701F Full Combat Mission Training	PROJECT NUMBER AND TITLE 5012 Full Combat Mission Tra	
<ul> <li>(U) Schedule Profile</li> <li>(U) F-15C Operations begin: Kadena</li> <li>(U) F-16 4-ship operations begin: Misawa</li> <li>(U) AWACS operations begin: Kadena</li> <li>(U) AWACS Operations begin: Tinker #3</li> </ul>	FY 2005 3Q 3Q 3Q 4Q		<u>Y 2007</u>
<ul> <li>(U) F-15C 2-ship operations begin: Lakenheath</li> <li>(U) F-15E 2-ship operations begin: Mt. Home</li> <li>(U) F-15E 2-ship operations begin: Seymour Johnson</li> <li>(U) F-15E 2-ship operations begin: Lakenheath</li> <li>(U) F-15E 2-ship operations begin: TBD</li> </ul>		2Q 4Q	2Q 4Q 4Q
Project 5012	R-1 Shopping List - Item No. 101-12 of 101-12	Exhibit R-4a (PE 02	207701F)