

UNCLASSIFIED

PE NUMBER: 0207418F
 PE TITLE: TAC AIRBORNE CONTROL SYSTEM

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207418F TAC AIRBORNE CONTROL SYSTEM
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	2.303	3.387	1.543	0.000	0.000	0.000	0.000	Continuing	TBD
5234 TACP Support	0.000	2.303	3.387	1.543	0.000	0.000	0.000	0.000	Continuing	TBD

In FY 2007 this is the first time this program element (PE) has had Research, Development, Testing and Evaluation (RDT&E) funds, Project Number 5234, Tactical Air Control Party (TACP) Support, includes new start efforts.

(U) A. Mission Description and Budget Item Justification

The Joint Terminal Controller Training and Rehearsal System (JTC TRS) project under the Tactical Airborne Control System funds developments necessary to provide Distributed Mission Operations (DMO) capable high-fidelity Joint Terminal Attack Controller (JTAC), and Combat Control Team (CCT) training and rehearsal system. Provides development funding to enable connectivity to DMO networks to allow geographically separated high-fidelity close air support platforms and JTACs/CCT teams to train together. Develops system that will enable operators to conduct Joint Close Air Support (JCAS) training/mission rehearsal using tailored, dynamic scenarios that are relevant to mission tasking and capable of providing air traffic control training for CCT using tactical application of austere airbase operations. Using a system of systems approach JTC TRS provides spiral development to network in Increment 1 to aircrew full mission trainers and mission training centers, and by Increment 2, to Air Support Operations Centers (ASOCs) for Joint Tactical Air Strike Requests and air-ground coordination of Joint fires. Its primary focus is to provide a persistent total air-ground virtual training environment for networked air ground training and mission rehearsal capability that will develop both JTAC/CCT skills and train those air crews assigned to accomplish complex JCAS missions in close proximity to ground forces. Provides research and development to facilitate interoperability with joint/sister Service air ground simulation using industry standards.

This program is in Budget Activity 7, Operational System Development, because it updates and develops capabilities for current operational systems.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	0.000	0.000	0.000	0.000
(U) Current PBR/President's Budget	0.000	2.303	3.387	1.543
(U) Total Adjustments	0.000			
(U) Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				

(U) Significant Program Changes:
 FY 07 is the first year this PE has RDT&E funds.

Exhibit R-2a, RDT&E Project Justification

DATE
February 2007

BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0207418F TAC AIRBORNE CONTROL SYSTEM			PROJECT NUMBER AND TITLE 5234 TACP Support		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5234 TACP Support	0.000	2.303	3.387	1.543	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

In FY 2007, Project Number 5234, Tactical Air Control Party (TACP) Support, includes new start efforts.

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

The Joint Terminal Controller Training and Rehearsal System (JTC TRS) project under the Tactical Airborne Control System funds developments necessary to provide Distributed Mission Operations (DMO) capable high-fidelity Joint Terminal Attack Controller (JTAC), and Combat Control Team (CCT) training and rehearsal system. Provides development funding to enable connectivity to DMO networks to allow geographically separated high-fidelity close air support platforms and JTACs/CCT teams to train together. Develops system that will enable operators to conduct Joint Close Air Support (JCAS) training/mission rehearsal using tailored, dynamic scenarios that are relevant to mission tasking and capable of providing air traffic control training for CCT using tactical application of austere airbase operations. Using a system of systems approach JTC TRS provides spiral development to network in Increment 1 to aircrew full mission trainers and mission training centers, and by Increment 2, to Air Support Operations Centers (ASOCs) for Joint Tactical Air Strike Requests and air-ground coordination of Joint fires. Its primary focus is to provide a persistent total air-ground virtual training environment for networked air ground training and mission rehearsal capability that will develop both JTAC/CCT skills and train those air crews assigned to accomplish complex JCAS missions in close proximity to ground forces. Provides research and development to facilitate interoperability with joint/sister Service air ground simulation using industry standards.

This program is in Budget Activity 7, Operational System Development, because it updates and develops capabilities for current operational systems.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Development of high-fidelity simulation system for JTAC/CCT training	0.000	2.303		
(U) Continue development of high-fidelity simulation system for JTAC/CCT Training			3.387	1.543
(U) Total Cost	0.000	2.303	3.387	1.543

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

	<u>FY 2006</u> <u>Actual</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) PE 0207418F, TAC Airborne Control System, Other Procurement , AF	0.000	0.000	0.000	7.300	1.800	1.800	0.000	0.000	Continuing	TBD
(U) PE 0207418F, TAC Airborne Control System, O&M , AF	0.000	0.000	0.300	2.300	0.000	0.000	0.000	0.000	Continuing	TBD

Exhibit R-2a, RDT&E Project Justification

DATE

February 2007

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207418F TAC AIRBORNE CONTROL
SYSTEM

PROJECT NUMBER AND TITLE

5234 TACP Support

(U) **D. Acquisition Strategy**

The acquisition strategy will be based on full and open competition for an evolutionary acquisition approach using incremental development. Increment 1 will allow JTACS/CCT teams to network to aircrew full mission trainers and mission training centers. Future increments will be incorporated as funding and technology allow.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE
February 2007

BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207418F TAC AIRBORNE CONTROL SYSTEM	PROJECT NUMBER AND TITLE 5234 TACP Support
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u> 677 AESG AFMC		677 AESG AFMC, Wright Patterson AFB, OH		0.000		1.453	Apr-07	2.530	Mar-08	1.243	Mar-09	Continuing	TBD	TBD
Subtotal Product Development Remarks:			0.000	0.000		1.453		2.530		1.243		Continuing	TBD	TBD
<u>(U) Support</u>				0.000								Continuing	TBD	TBD
Subtotal Support Remarks:			0.000	0.000		0.000		0.000		0.000		Continuing	TBD	TBD
<u>(U) Test & Evaluation</u>				0.000								Continuing	TBD	TBD
Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000		Continuing	TBD	TBD
<u>(U) Management</u> Program Office Support		677 AESG AFMC, Wright Patterson AFB, OH		0.000		0.850		0.875		0.300		Continuing	TBD	TBD
Subtotal Management Remarks:			0.000	0.000		0.850		0.875		0.300		Continuing	TBD	TBD
<u>(U) Total Cost</u>			0.000	0.000		2.303		3.405		1.543		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

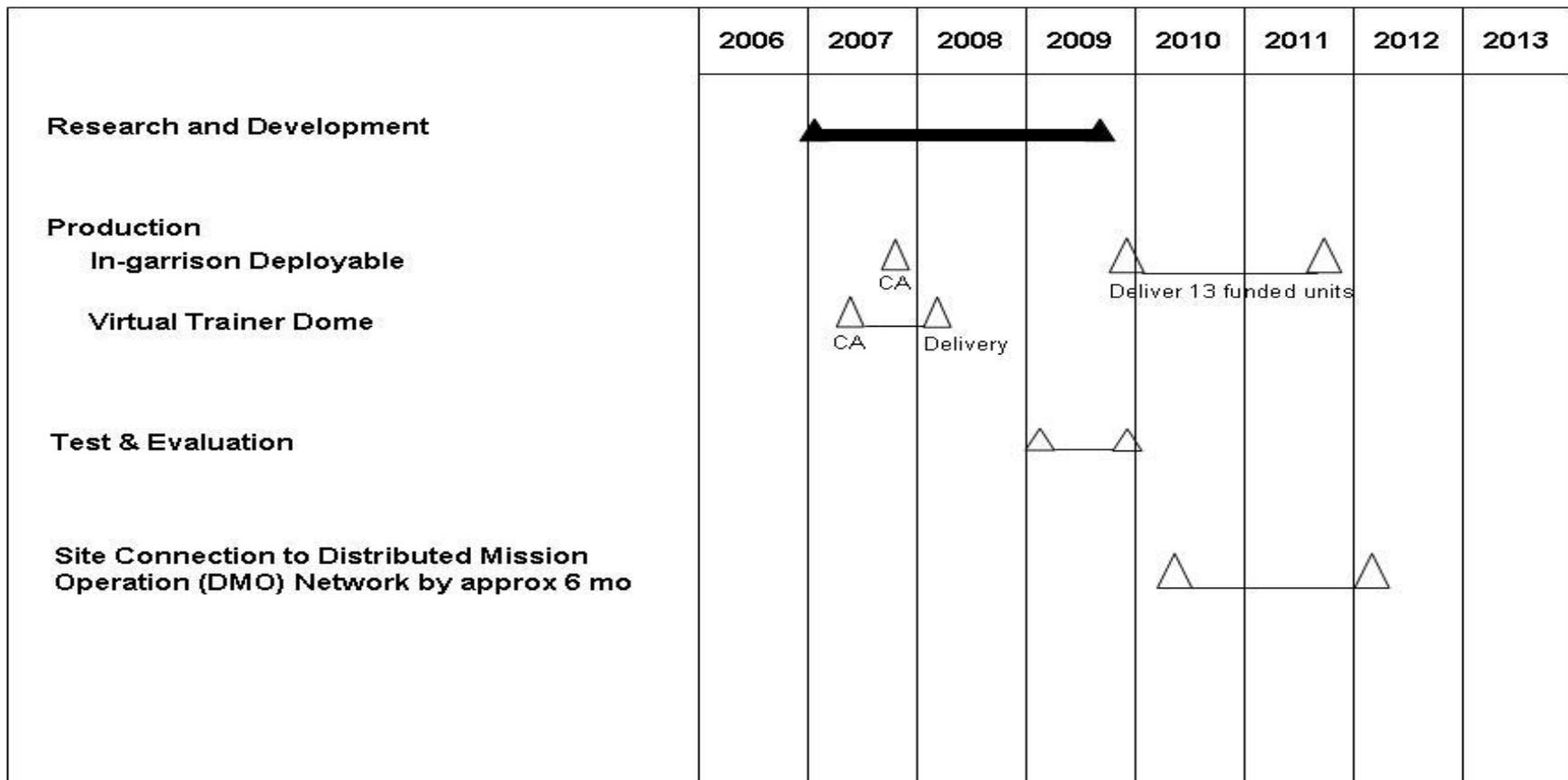
February 2007

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0207418F TAC AIRBORNE CONTROL SYSTEM

PROJECT NUMBER AND TITLE
5234 TACP Support

Joint Terminal Controller Training Rehearsal System (JTC TRS)



1

Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2007

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207418F TAC AIRBORNE CONTROL SYSTEM

PROJECT NUMBER AND TITLE

5234 TACP Support

(U) Schedule Profile

- (U) JTC TRS In-garrison/Deployable Development
- (U) JTC In-garrison/Deployable OT& E
- (U) JTC In-garrison/Deployable Delivery
- (U) JTC Virtual Trainer (VT) Dome Development
- (U) JTC Virtual Trainer (VT) Dome Delivery

FY 2006

FY 2007

FY 2008

FY 2009

4Q

1-4Q

1-4Q

4Q

1-4Q

4Q

2-4Q

2Q