

UNCLASSIFIED

PE NUMBER: 0207418F

PE TITLE: TAC AIRBORNE CONTROL SYSTEM

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207418F TAC AIRBORNE CONTROL SYSTEM

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
Total Program Element (PE) Cost	0.000	0.000	2.286	3.300	1.500	0.000	0.000	Continuing	TBD
5234 TACP Support	0.000	0.000	2.286	3.300	1.500	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. The JTC TRS will be able to connect to DMO networks to allow geographically separated high-fidelity close air support platforms and JTACs/CCT teams to train together. The JTC TRS will enable operators to conduct Joint Close Air Support (JCAS) training/mission rehearsal using tailored, dynamic scenarios that are relevant to mission tasking. Furthermore, the system will be capable of providing air traffic control training for CCT using tactical application of austere airbase operations. Using a system of systems approach JTC TRS shall have the capability 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. JTC TRS will also allow JTACs/CCT teams to use their actual equipment in the trainer. 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. JTC TRS will be fully interoperable 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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	0.000	0.000	0.000
(U) Current PBR/President's Budget	0.000	0.000	2.286
(U) Total Adjustments	0.000	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 had RDT&E funds.

Exhibit R-2a, RDT&E Project Justification

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PROJECT NUMBER AND TITLE

5234 TACP Support

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
5234 TACP Support	0.000	0.000	2.286	3.300	1.500	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	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. The JTC TRS will be able to connect to DMO networks to allow geographically separated high-fidelity close air support platforms and JTACs/CCT teams to train together. The JTC TRS will enable operators to conduct Joint Close Air Support (JCAS) training/mission rehearsal using tailored, dynamic scenarios that are relevant to mission tasking. Furthermore, the system will be capable of providing air traffic control training for CCT using tactical application of austere airbase operations. Using a system of systems approach JTC TRS shall have the capability 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. JTC TRS will also allow JTACs/CCT teams to use their actual equipment in the trainer. 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. JTC TRS will be fully interoperable 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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Development of high-fidelity simulation system for JTAC/CCT training	0.000	0.000	2.286
(U) Total Cost	0.000	0.000	2.286

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) N/A									

(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.

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Exhibit R-3, RDT&E Project Cost Analysis

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PROJECT NUMBER AND TITLE

5234 TACP Support

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u>												
Joint Terminal Controller Training Rehearsal System	TBD	TBD	0.000	0.000		0.000		1.436	Apr-30	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.000		1.436		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>			0.000	0.000		0.000				Continuing	TBD	TBD
Subtotal Support			0.000	0.000		0.000		0.000		Continuing	TBD	TBD
Remarks:												
(U) <u>Test & Evaluation</u>			0.000	0.000		0.000				Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												
Air Force Material Command, Simulator Systems Group, System Program Office Cost			0.000	0.000		0.000		0.850		Continuing	TBD	TBD
Subtotal Management			0.000	0.000		0.000		0.850		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	0.000		0.000		2.286		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

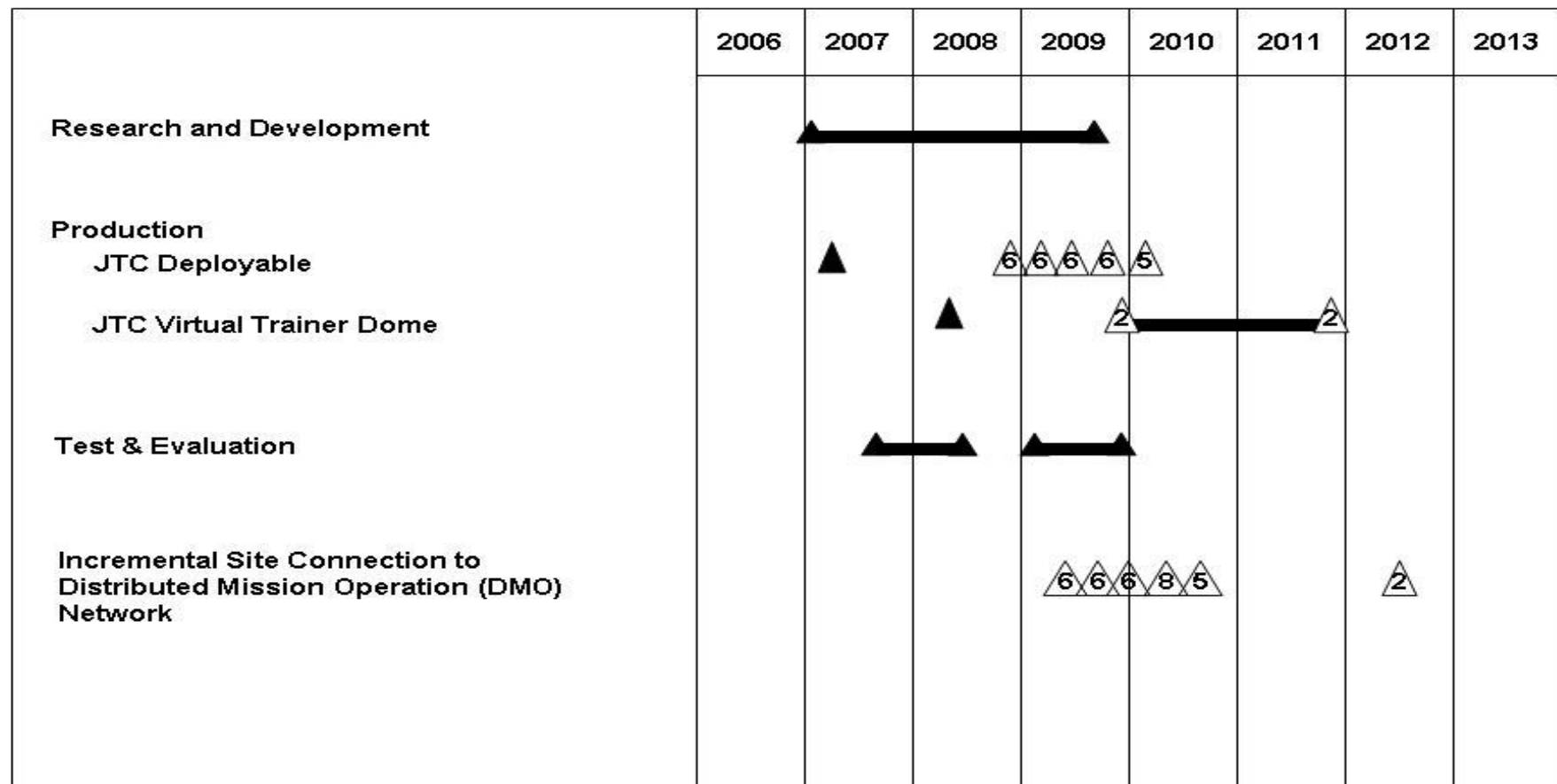
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PROJECT NUMBER AND TITLE

5234 TACP Support

Joint Terminal Controller Training Rehearsal System (JTC TRS)



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Exhibit R-4a, RDT&E Schedule Detail

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PROJECT NUMBER AND TITLE

5234 TACP Support

(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) JTC TRS Deployable Development

1-4Q

(U) JTC Deployable OT& E

3-4Q

(U) JTC Virtual Trainer (VT) Dome Development

4Q

(U) JTC Deployable Production Contract Award

1Q