

UNCLASSIFIED

PE NUMBER: 0207423F

PE TITLE: Advanced Communications Systems

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0207423F Advanced Communications Systems

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	2.464	0.981	0.000	0.000	0.000	0.000	0.000	0.000
5084 AJCN	0.000	2.464	0.981	0.000	0.000	0.000	0.000	0.000	0.000

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

The Adaptive Joint Command, Control, Communications and Computing, Intelligence, Surveillance and Reconnaissance [C4ISR] Node (AJCN), Advanced Concept Technology Demonstration (ACTD) is developing software programmable Radio Frequency (RF) payloads designed to support Information Superiority. AJCN is an open, Commercial-Off-The-Shelf (COTS) based system that can be remotely programmed on the fly to perform a variety of functions simultaneously: air-to-air communications interoperability, Electronic Warfare (EW), Signals Intelligence (SIGINT), and Information Operations (IO). AJCN addresses numerous Mission Needs Statements (MNS), Operational Requirements Documents (ORD), and the Combatant Commanders Integrated Priority Lists (IPL) related to communications, intelligence and information operations.

This program is in Budget Activity 4, Advanced Component Development and Prototypes, because it involves demonstrating and evaluating integrated technologies in a realistic operating environment to assess the performance and/or cost reduction potential of advanced technology.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget		0.969	0.988
(U) Current PBR/President's Budget	0.000	2.464	0.981
(U) Total Adjustments	0.000	1.495	
(U) Congressional Program Reductions		-1.005	
Congressional Rescissions			
Congressional Increases		2.500	
Reprogrammings			
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			
FY06 Adaptive Joint C4ISR Node (AJCN) was increased \$2.5M by Congress for Security Certification			

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Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY

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0207423F Advanced Communications Systems

PROJECT NUMBER AND TITLE

5084 AJCN

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
5084 AJCN	0.000	2.464	0.981	0.000	0.000	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

The Adaptive Joint Command, Control, Communications and Computing, Intelligence, Surveillance and Reconnaissance [C4ISR] Node (AJCN), Advanced Concept Technology Demonstration (ACTD) is developing software programmable Radio Frequency (RF) payloads designed to support Information Superiority. AJCN is an open, Commercial-Off-The-Shelf (COTS) based system that can be remotely programmed on the fly to perform a variety of functions simultaneously: air-to-air communications interoperability, Electronic Warfare (EW), Signals Intelligence (SIGINT), and Information Operations (IO). AJCN addresses numerous Mission Needs Statements (MNS), Operational Requirements Documents (ORD), and the Combatant Commanders Integrated Priority Lists (IPL) related to communications, intelligence and information operations.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Field Evaluation		0.969	0.800
(U) Security Accreditation		1.200	0.135
(U) Aircraft Integration		0.295	0.046
(U) Total Cost	0.000	2.464	0.981

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

	<u>FY 2005</u> <u>Actual</u>	<u>FY 2006</u> <u>Estimate</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>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) PE 27423F, BPAC 635084, BA 03	13.709	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.709

Funding in BPAC 635084 (BA 03) completed the concept refinement, subsystem and system development and demonstration phase. The remaining funds moved to BPAC 645084 (BA 04) for residual assessment and evaluation work to be completed.

(U) **D. Acquisition Strategy**

All major contracts within this Program Element and programs were awarded after full and open competition

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Exhibit R-3, RDT&E Project Cost Analysis

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(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>												
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Support</u>												
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Joint Military Utility Assessments	MIPR	Army Tactical Command & Control Sys, Ft Monmouth, NJ				2.464	Feb-06	0.981	Nov-06		3.445	
Subtotal Test & Evaluation			0.000	0.000		2.464		0.981		0.000	3.445	0.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	0.000		2.464		0.981		0.000	3.445	0.000

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY

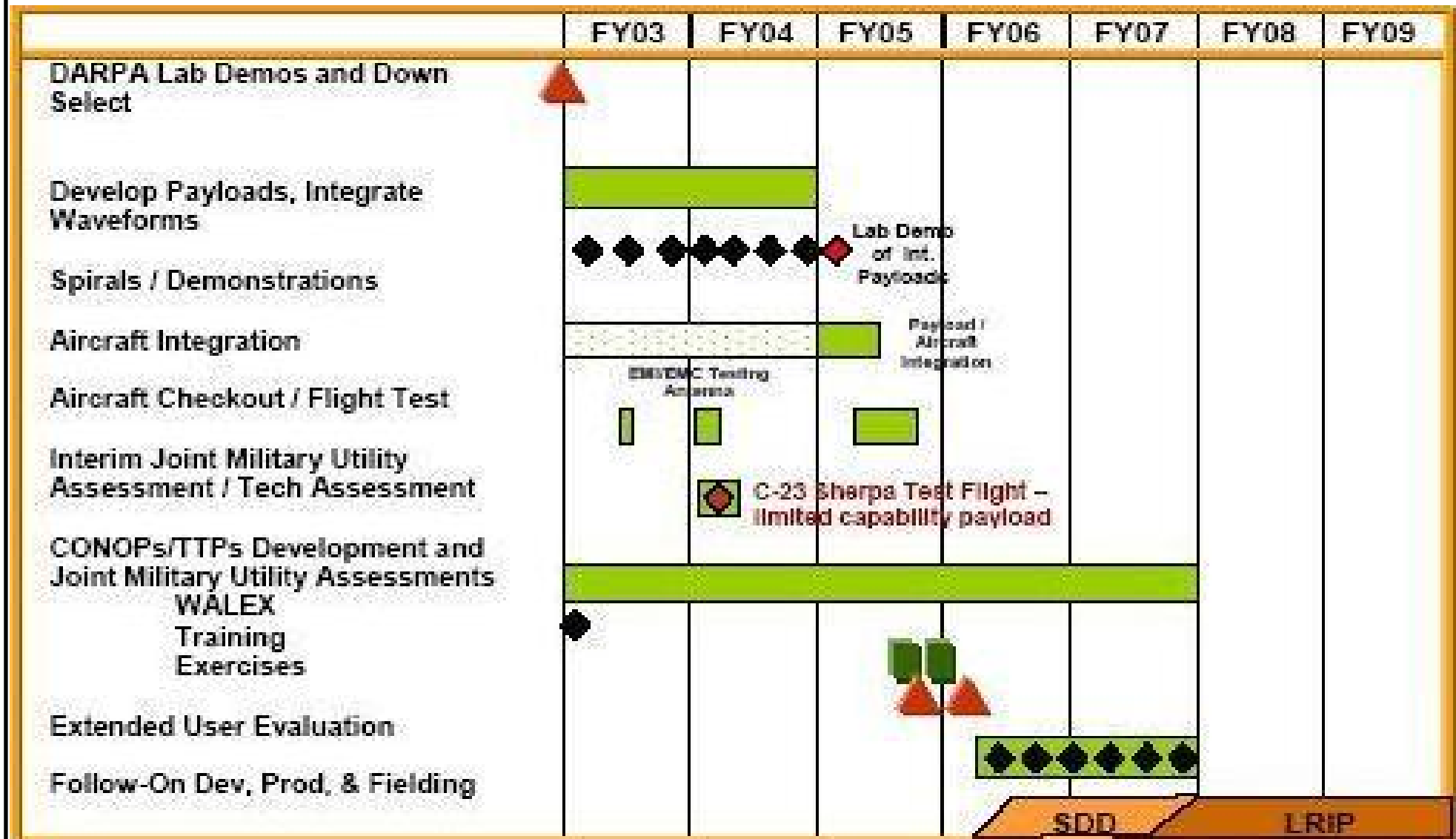
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Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) Spirals/Demonstrations

1Q

(U) Aircraft Integration

1-3Q

(U) CONOPS/TTPs Development and Joint Military Utility Assessments

1-4Q

1-4Q

1-4Q

(U) Extended User Evaluation

2-4Q

1-2Q

(U) Follow-on Development, Production, & Fielding

2-4Q

1-4Q