ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604□1□A - Army Tactical Command & Control Hardware

& Softwar

	COST (In Thousands)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
		Actual	Estimate	Complete							
	Total Program Element (PE) Cost	101914	64811	66980	68873	49802	42888	10387	8510	Continuing	Continuing
323	COMMON HARDWARE SYSTEMS	6226	4543	4493	6650	6955	7236	0	0	0	54220
334	COMMON SOFTWARE	28938	20622	15792	16040	11925	14289	0	0	Continuing	0
C15	MOUNTED BATTLE COMMAND ON-THE-MOVI (MBCOTM)	Ē 0	0	9975	12210	11022	2190	775	0	Continuing	0
C29	CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)	11165	11356	9702	10184	10681	9954	9612	8510	Continuing	0
C34	ARMY TAC C2 SYS ENG	27220	10296	16449	9336	9219	9219	0	0	Continuing	0
C39	TACTICAL OPERATIONS CENTERS (TOCS)	6260	10387	3048	4408	0	0	0	0	Continuing	0
C3A	ARMY AIRBORNE COMMAND & CONTROL SYS (A2C2S)	22105	7607	7521	10045	0	0	0	0	Continuing	Continuing

A. Mission Description and Budget Item Justification: The umbrella program to exploit automation technology for the conduct of combat operations is the Army Tactical Command and Control System (ATCCS) program which is a component of the Army Battle Command System (ABCS). The ATCCS program provides automation in the five battlefield functional areas (BFAs) with the following specific systems: (1) Maneuver Control System (MCS); (2) Effects and Fires Command and Control Systems (EFCCS); (3) All Source Analysis System (ASAS) for Intelligence/Electronic Warfare; (4) Forward Area Air Defense Command, Control and Intelligence System (FAADC2I); and (5) Battle Command Sustainment Support System (BCS3). To provide an overall technically sound, cost effective, and operationally responsive approach, the design and development of ATCCS must be accomplished on a total systems basis. The ATCCS Engineering Program, more commonly known as Systems Engineering and Integration (SE&I), provides the required overall systems engineering to assure integrated Army tactical command and control and the utilization of common hardware and software throughout the five ATCCS nodal systems. This program element also includes the Central Technical Support Facility (CTSF) which provides a single technical "center of mass" for software checkout and physical system integration. The Common Hardware and Software projects provide common products to customers to meet their developmental and fielding needs. The Tactical Operations Centers (TOCs) project designs and develops the TOCs that form the structural backbone of the Army's digitized fielding concept. Starting in FY04 this program includes funding for the SICPS program which was previously funded in project C12 in FY03. The Army Airborne Command & Control (A2C2S) provides the avionics system required to horizontally and vertically integrate the battlefield. These systems support the Legacy to Objective transition path.

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604 ☐ 1 ☐ A - Army Tactical Command & Control Hardware & Softwar

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	68110	79660	59451
Current Budget (FY 2006/2007 PB)	64811	66980	68873
Total Adjustments	-3299	-12680	9422
Net of Program/Database Changes			
Congressional Program Reductions	-1458		
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-1841		
Adjustments to Budget Years		-12680	9422

Change Summary Explanation: Funding - FY06: Funds (-12680) realigned to higher priority requirements.

FY07: Funds increase of +9422 is the result of the following:

- (C34) SE&I +6175: Plus up to fund System Engineering support
- (C3A) A2C2S +3473: Army PBD to integrate JTRS
- (C15) MBCOTM +12210: Army added funding for capability support
- (C29) CTSF -2277: Decrement to Field Engineering support
- (334) CS $\,$ -10081: Decrement to Digital System Engineering support
- (323) CHS -78 : Decrement to Program Support

	ARMY RDT&E BUDGET ITE	EM JUS	STIFIC	ATION	(R2 a	Exhibi [.]	t)	PROJECT						
	ACTIVITY tem Development and Demonstratio	n		e number 0604⊡1 □/ Hardware	A - Army	Tactical	Comma	nd & Co	ntrol	PROJECT 323				
	COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost			
323	COMMON HARDWARE SYSTEMS	6226	4543	4493	6650	6955	7236	0	0	0	54220			

A. Mission Description and Budget Item Justification: CHS is the program through which the Army ensures standardization and common integration for the Army Battle Command Systems (ABCS) hardware. CHS provides fully qualified interoperable, compatible, deployable, and survivable hardware and COTS software for Command, Control and Communications at all echelons of Command, for the United States Army and other DoD Services with world-wide repair, maintenance and logistics support through contractor operated CHS Repair Centers (CRCs) and management of a comprehensive warranty program.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Continue management of the acquisition and delivery of CHS equipment in support of customer requirements	6226	3743	3693	5797
Continue supporting customers testing efforts with CHS equipment	0	300	300	300
Continue CHS technology insertion	0	500	500	553
Totals	6226	4543	4493	6650

B. Other Program Funding Summary: Not applicable for this item.

Not applicable for this item.

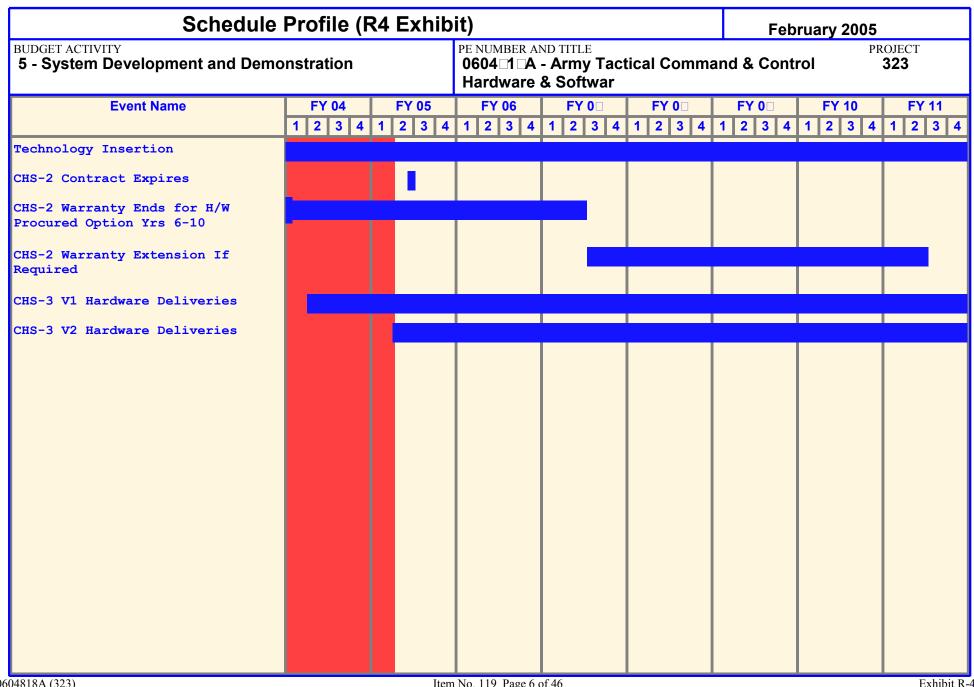
<u>C. Acquisition Strategy:</u> The overall goal is to improve interoperability and compatibility and lower life cycle costs by standardizing battlefield command and control (C2) automation through centralized buys of non-developmental items (NDI), standardized protocols and reusable commercial common software. This project provides a coherent migration strategy for ABCS systems through the use of technology insertion.

CHS also conducts common environmental and developmental testing of hardware items thereby reducing the testing requirements for individual BFAs. A firm fixed price, full and open competition contract, was awarded to GDC4S in May 2003, for ruggedization and production.

	ARM'	Y RDT&E CO	ST AN	ALYS	IS(R3)				Feb	ruary 20	005	
BUDGET ACTIVITY 5 - System Develop	oment and	Demonstration		PE NUMBER AND TITLE 0604 1 A - Army Tactical Command & Control Hardware & Softwar								
. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs 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		Targe Value o Contrac
a . GDC4S/CHS-3 Non- Recurring Engineering	C/FFP/IDIQ	Taunton, MA	12000	0		0		0		12000	Continue	(
b . Technology Insertion	Various	Various	11685	500	1-3Q	500	1-3Q	553	1-3Q	Continue	Continue	(
c . Systems Engineering	Various	Fort Monmouth, NJ	63887	2456		662		2581		Continue	69586	(
d . In-house Government Support	MIPR	Fort Monmouth, NJ/Huntsville, AL	48699	3190	1-3Q	3031	1-3Q	3216	1-3Q	Continue	58136	(
Subtotal:			136271	6146		4193		6350		Continue	Continue	(
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs 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		Targe Value o Contrad
a . Not applicable			0	0		0		0		0	0	
Subtotal:			0	0		0		0		0	0	(

0604818A (323) COMMON HARDWARE SYSTEMS Item No. 119 Page 4 of 46 985 Exhibit R-3 Cost Analysis

	ARM	Y RDT&E CO	ST AN	ALYS	IS(R3)				Feb	ruary 20	05	
BUDGET ACTIVITY 5 - System Develop	oment and	d Demonstration		060		D TITLE Army Ta S Softwar		ommano	I & Cont	rol	PROJEC 323	
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs 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
a . CHS Test Activities	MIPR	Other Government Activities	900	300	3-4Q	300	3-4Q	300	3-4Q	Continue	1800	0
Subtotal:			900	300		300		300		Continue	1800	0
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs 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
Subtotal:			0	0		0		0		0	0	C
								6650				



Schedule Detail (R4	a Exhib	it)				February 2005			
BUDGET ACTIVITY 5 - System Development and Demonstration				ny Tacti	mand &	and & Control 323			
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
CHS Technology Insertion (continuous) CHS-3 V1 deliveries	1-4Q 2-4Q	1-4Q 1-4Q	1-4Q 1-4Q	1-4Q 1-4Q	1-4Q 1-4Q	1-4Q 1-4Q	1-4Q 1-4Q	1-4Q 1-4Q	
CHS-3 V2 deliveries		2-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	

ARMY RDT&E BUDGET ITE					Exhibi	t)	February 2005			
BUDGET ACTIVITY 5 - System Development and Demonstration	n		PE NUMBER 0604⊡1 □4 Hardware	A - Army	Tactical	Comma	nd & Co	ntrol	PROJECT 334	
COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
334 COMMON SOFTWARE	28938	20622	15792	16040	11925	14289	0	0	Continuing	0

A. Mission Description and Budget Item Justification: Project D334 Common Software (CS): Common Software is the program through which the Army procures, develops, integrates and tests common software products and/or modules and/or components for both the Army and Joint Services through the Common Operating Environment (COE). The CS project provides state-of-the-art software technologies and functionality that is used by numerous Army Battle Command Systems (ABCS) thereby eliminating the need for similar independent development and duplication of effort. The CS program is a cornerstone in the Army's digitization efforts that includes system integration of ABCS Information Services for the ABCS 6.4 architecture. The AIS centralizes the dissemination of battlefield data by allowing users to publish and subscribe data in a common format.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Continue the development, acquisition management and delivery of CS and Commercial-Off-The-Shelf (COTS) products in support of Army and Joint Service customer requirements to include software upgrades. Continue to achieve enhanced levels of interoperability by defining, testing and implementing software technologies that are provided to the warfighter. CS products will bridge current to future force technologies in support of the Future Combat System (FCS) and the Army's way ahead.	6841	7384	7605	7833
Continue execution of the Common Software technology and reuse program; supporting customer integration and testing; the exploration and evaluation of new software technologies in support of the overall CS program; and developing, upgrading and delivery of DII COE products into Army and Joint Service systems. The CS products released to the Army and Joint Programs are also used in support of the US/Allied coalition efforts.	16003	13238	8187	8207
Information Dissemination Management - Tactical (IDM-T) effort. The IDM-T is one of the CS products that provides the Army's input into the Global Information Grid (GIG). This product is GIG compliant. The IDM-T will provide information management and transport services of critical situational awareness data for commanders and their staff.	2000	0	0	0
Integrate the Army's Advanced Warfare Environment's commercial 3D display technology development to support command and control modernization initiatives.	4094	0	0	0
Totals	28938	20622	15792	16040

0604818A (334) COMMON SOFTWARE Exhibit R-2A Budget Item Justification

ARMY RDT&E BUDGET I	TEM J	USTIFI	CATIO	ON (R2	a Exh	ibit)		Febru	ary 2005	
BUDGET ACTIVITY 5 - System Development and Demonstra	tion		0604□	BER AND T 1 □ A - Ar ⁄are & So	Army Tactical Command & Control 334 Softwar Property 2008 FY 2009 FY 2010 FY 2011 To Compl To the control of t		СТ			
	5 14 000 4	5 \(000 5	5 1/ 0000	5) (222 5	5) / 2222	5 1/ 0000	5 1/ 00/10	E) (00 ((- 0 1	T
B. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
Not applicable for Common Software Program	C	0	0	0	0	0	0	0	0	0
	alized through	gh defined A	Application	Program In	nterfaces (A	PIs), standa				

0604818A (334) COMMON SOFTWARE Item No. 119 Page 9 of 46

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Exhibit R-2A
Budget Item Justification

ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PROJECT PE NUMBER AND TITLE 0604 ☐ 1 ☐ A - Army Tactical Command & Control 5 - System Development and Demonstration 334 Hardware & Softwar I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & Location PYs Cost Cost Cost Value of Cost Award Award Cost Award Complete Date Contract Type Date Date a. Matrix Support of CS **MIPR** CFCOM. Fort 1458 395 1-3Q 155 1-3Q 162 1-3Q Continue Continue Lab. Data Access Monmouth, NJ b . Engineering/Software C, T&M Various GSA 30812 11126 14062 1-3Q Continue Continue 0 1-3Q 13880 1-3Q Development Contractors / Various Locations c . ABCS System **MIPR** PEO C3T. Fort 210 0 0 0 210 0 Engineering & Integration Monmouth, NJ d . 3D Display Technology Concurrent 9083 0 0 O 0 9083 Technology Corp., Johnstown, PA e . Digital System Various Contractors 7000 7400 1-2Q 0 14400 0 Engineers f . DISA Support for COE **MIPR** 1486 0 0 1486 0 g . IDM-T Engineering MIPR GSA Contractors 2000 ი 0 2000 0 Support 52049 18921 14035 14224 Continue Continue 0 Subtotal:

0604818A (334) COMMON SOFTWARE Item No. 119 Page 10 of 46

ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 5 - System Development and Demonstration 0604 ☐ 1 ☐ A - Army Tactical Command & Control 334 Hardware & Softwar II. Support Cost Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & PYs Cost Cost Cost Value of Location Cost Award Award Cost Award Complete Type Date Date Date Contract a . Program Support In-house PM GCC2. Ft. 777 816 1-3Q 841 1-3Q 866 1-3Q Continue Continue Monmouth, NJ PKMM, Oceanport, C, T&M 179 Continue Continue 0 b. Automation Support 499 165 1-2Q 171 1-2Q 1-2Q NJ 1045 Continue Continue 0 1276 981 1012 Subtotal: FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Target III. Test and Evaluation Contract Performing Activity & Total Total Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Contract Type Date Date Date 0 0 a . Not applicable 0 0 0 0 0 0 0 0 Subtotal:

Remarks: Development Testing (DT) is performed by development contractors and is covered under the Product Development section of this R-3. Operational Testing (OT) is funded by the applicable BFA application programs.

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	ARM	Y RDT&E CO	ST AN	ALYS	IS(R3)				Feb	ruary 20	05	
BUDGET ACTIVITY 5 - System Develo	pment and	PE NUMBER AND TITLE 1										
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Complete		Targe Value o Contrac
a . Program Office Management	In-House	Fort Monmouth, NJ	2357	720	1-4Q	745	1-4Q	771	1-4Q	Continue	Continue	C
Subtotal:			2357	720		745		771		Continue	Continue	0
Gustetai.												
Project Total Cost:			55682	20622		15792		16040		Continue	Continue	

0604818A (334) COMMON SOFTWARE Item No. 119 Page 12 of 46 993 Exhibit R-3 Cost Analysis

Schedule	Profile (I	R4 Exhib	it)			Feb	ruary 2005	
UDGET ACTIVITY 5 - System Development and Dem	onstration		PE NUMBER AN 0604⊡1 □A Hardware	- Army Tact	tical Comm		PR	:ОЈЕСТ 334
Event Name	FY 04	FY 05	FY 06	FY 0	FY 0	FY 0□	FY 10	FY 11
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
1) , (2) , (3) , (4) , (5) , (6) OE Releases			3		5	6		

0604818A (334) COMMON SOFTWARE

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Exhibit R-4 Budget Item Justification

Schedule Detail (R4	a Exhib	it)					Februa	ary 2005	
BUDGET ACTIVITY 5 - System Development and Demonstration				ny Tacti	cal Com	mand &	Control		ROJECT 334
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Software development is continuous and performed in accordance with Army Software Blocking Policy.	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q			

Note: COE software product deliveries are made every twelve (12) months.

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	ARMY RDT&E BUDGET ITE	EM JUS	STIFIC	ATION	(R2 a	Exhibi	t)	Fe	ebruary	2005	
	T ACTIVITY stem Development and Demonstratio	n		PE NUMBER 0604⊡1 □/ Hardware	A - Army	Tactical	Comma	nd & Co	ntrol	PROJECT C15	
	COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
C15	MOUNTED BATTLE COMMAND ON-THE- MOVE (MBCOTM)	0	(9975	12210	11022	2190	775	0	Continuing	0

A. Mission Description and Budget Item Justification: This project funds the development of the Mounted Battle Command on the Move System. Mounted Battle Command on the Move (MBCOTM) provides a battle command platform for maneuver commanders for echelons from Calvary Squadron through Unit of Employment (UEy). The focus of MBCOTM is to facilitate commander execution centric operations versus command post centric operations. MBCOTM provides for battle command by providing a commander situational awareness in the form of a digital common operational picture enabling a commander to maintain situational understanding while moving and physically separated from fixed command posts. MBCOTM provides battle command enablers to support war (i.e., deterring aggression and coercion; fighting conflicts) and operations other than war (i.e., peacekeeping, domestic disaster relief, reducing potential conflicts, promoting regional stability, humanitarian missions and homeland security).

MBCOTM supports the mission area of Command and Control. Future capabilities will include adding Joint Tactical Radio System radio and Wideband Gapfiller system upgrade. Future improvements will include addition of secure wireless Local Area Network, Land Warrior, and Unmanned Aerial Vehicle feed.

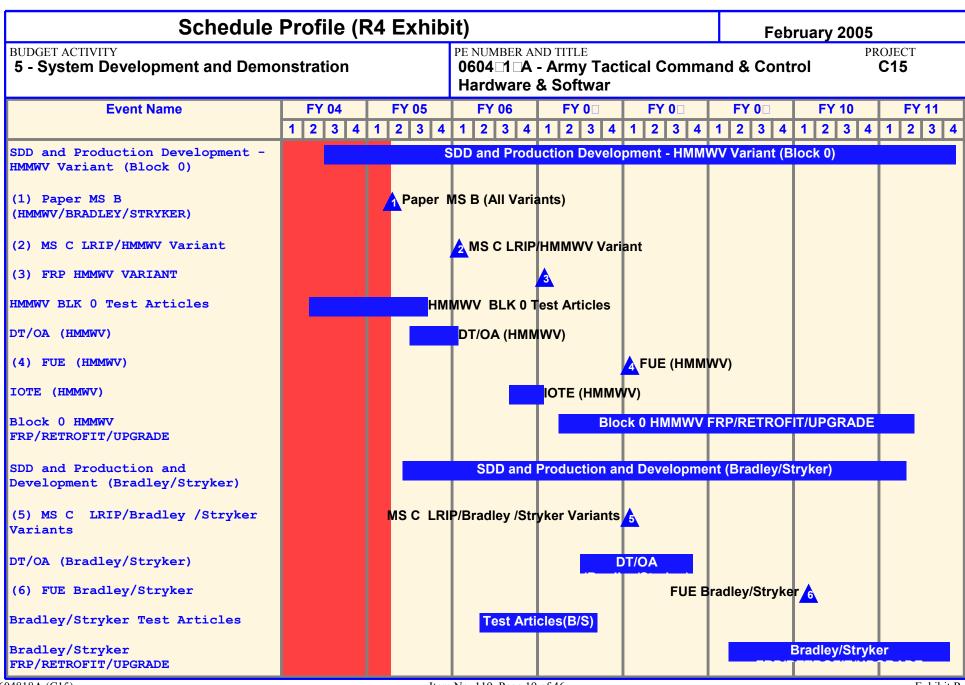
Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
System Development and Test/Evaluation BLK 0	0	0	2500	5000
Prototype Build	0	0	975	3500
Log Development	0	0	3000	1710
Program Spt (MS B, MS C)	0	0	3500	2000
Totals	0	0	9975	12210

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ARMY RDT&E BUDGET IT	EM JU	JSTIFI	CATIC	N (R2	a Exh	ibit)		Febru	ary 2005	
BUDGET ACTIVITY 5 - System Development and Demonstrat	ion		0604⊡	BER AND T 1 □A - Ari are & So	my Tact	ical Con	nmand &	k Contro	PROJE C15	ECT
B. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
Mounted Battle Command on the Move MBCOTM (BZ9970	0	0	870	7982	76172	47676	28248	12946	0	173894
C. Acquisition Strategy: The government is developing the	e prototype	MBCOTM	I and will d	o a full and	open comp	etition for j	production.			

BUDGET ACTIVITY 5 - System Development and Demonstration Performing Activity & Total Hardware & Softwar I. Product Development Contract Method & Location Type TBD T	
Method & Location PYs Cost Cost Award Date Cost Award Date Cost Da	Value
Development of Block 0 9975 12210 0 22185	
I. Support Cost Contract Method & Location Type Contract Performing Activity & Total PYs Cost Cost Date FY 2005 FY 2006 FY 2006 FY 2006 FY 2007 Cost Award Cost Date Cost Date Cost Date	Targ Value Contra
Subtotal: 0 0 0 0 0 0 0 0 0	

Subtotal: V. Management Services Continue Contin	ntract thod &	Performing Activity & Location	Total PYs Cost 0	060		Army Ta Softwar FY 2006 Cost		FY 2007 Cost		Cost To Complete	PROJEC C15 Total Cost	
Subtotal: V. Management Services Continued Methods Continue	thod & be	Location	PYs Cost	Cost	Award	Cost	Award	FY 2007 Cost	Award	Complete		Value c
IV. Management Services Cont			0	0		0						
Meth						_		0		0	0	C
Meth												
		Performing Activity & Location	Total PYs 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	Targe Value o Contrac
Subtotal:			0	0		0		0		0	0	(
Gustotal.					1							
Project Total Cost:			0	0		9975		12210		0	22185	(



Schedule Detail (K4a EXIIID	111)					Febru	ary 2005	
BUDGET ACTIVITY 5 - System Development and Demonstration		0604□1	ER AND TITE A - Arr are & So	ny Tacti	cal Com	mand &	Control		OJECT C15
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
SDD/Development/Production for HMMWV	3-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	
Paper MS B		2Q							
MS CLRIP/HMMWV Variant			1Q						
FRP HMMWV				1Q					
HMMWV Block 0 Test Articles	2-4Q	1-3Q							
DT/OA (HMMWV)		2-4Q	1Q						
FUE (HMMWV)					1Q				
IOTE (HMMWV)			3-4Q	1Q					
Block 0 (HMMWV) FRP/RETROFIT/UPGRADE				2-4Q	1-4Q	1-4Q	1-4Q	1-2Q	
SDD/Development/PProduction for Bradley/Stryker		2-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1Q	
MS C and LRIP for Bradley/Stryker					1Q				
DT/OA (Bradley/Stryker)				3-4Q	1-4Q				
FUE (Bradley Stryker)							1Q		
Bradley/Strker Test Articles			2-4Q	1-3Q					
Bradley/Stryker FRP/RETROFIT/UPGRADE						2-4Q	1-4Q	1-4Q	

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	ARMY RDT&E BUDGET ITE	EM JUS	STIFIC	ATION	(R2 a l	Exhibi	t)	Fe	ebruary 2	2005	
	ACTIVITY stem Development and Demonstration	n		PE NUMBER 0604⊡1 □/ Hardware	A - Army	Tactical	Comma	nd & Coi	ntrol	PROJECT C2 □	
	COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
C29	CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)	11165	11356	9702	10184	10681	9954	9612	8510	Continuing	0

A. Mission Description and Budget Item Justification: Project DC29 - Centralized Technical Support Facility: The Central Technical Support Facility (CTSF) is located in Fort Hood, Texas. The CTSF provides a centralized on-the-ground capability to ensure interoperability among various digitized platforms and serves as the final integration and maturation facility for Common Operating Environment (COE). The CTSF is the Warfighters "Edge" that acts as an enabler for rapid integration of dissimilar software and hardware systems through real time, on-site integration of soldiers, contractors, testers, Program Managers and the requirements community. Also the CTSF provides a single technical "center of mass" for software checkout and system integration and provides a controlled environment with connectivity to other C4I systems either on-site or through the Army Interoperability Network (AIN) to support digital integration and fielding. This effort supports the Current to Future transition path.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Continue test planning/procedures/execution/reporting	1796	1739	1674	1927
Continue software engineering.	2032	2086	1741	1791
Provide infrastructure (Facilities, upgrades, additions).	1428	1440	1202	1236
Continue Digital System Engineering	1322	1304	1089	1120
Continue management operations.	1310	1322	1104	1135
Provide equipment for instrumentation, simulation/stimulation, software evaluation and development tools.	900	905	755	777
Continue configuration management.	806	826	689	709
Provide networks connections to include DISN, SIPRNET, NIPRNET, GUARDNET.	308	315	263	270
Provide logistics support.	227	233	194	200
Provide DA Mandated Intra-Army Digital Certification test and validation.	915	1186	991	1019
Small Business Innovative Research	85	0	0	0
Small Business Technology Transfer Programs	36	0	0	0
Totals	11165	11356	9702	10184

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ARMY RDT&E BUDGET ITEM JUST	ΓΙΕΙCΑΤΙΟΝ (R2a Exhibit)	Fah 2005
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604□1□A - Army Tactical Commai Hardware & Softwar	February 2005 PROJECT nd & Control C2□
B. Other Program Funding Summary: Not applicable for this item.		
C. Acquisition Strategy: This project provides the technical and programma management, testing, software development, interoperability, fielding and so Command, Control, Communications, Tactical (PEO C3T) has planned an experiment of the communications of the comm	sustainment to ensure an interoperable and affordable AT	CCS. The Program Executive Officer for

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ARMY RDT&E COST ANALYSIS(R3)

February 2005

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE

0604□1□A - Army Tactical Command & Control

Hardware & Softwar

PROJECT **C2**□

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs 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	Targe Value o Contrac
a . MANTECH (Direct Labor)	C/CPFF	Fort Hood, TX	4921	2424	1Q	2246	1Q	2515	1Q	Continue	12106	Continue
b . COMPUTER SCIENCE CORP (System Engineering)	C/CPAF	Fort Hood, TX/Fort Monmouth, NJ	2344	1214	1Q	1013	1Q	1042	1Q	Continue	5613	Continue
c . MITRE Corp (System Engineering)	C/CPFF	Fort Hood, TX/Eatontown, NJ	2116	1104	1Q	921	1Q	948	1Q	Continue	5089	Continue
d . CAMBER (Config Mgt/)	C/CPAF	Fort Hood, TX	1200	600	1Q	501	1Q	515	1Q	Continue	2816	Continue
e . Northrop Grumman (Field Engineering)	C/CPIF	Fort Hood, TX	1953	1011	1Q	844	1Q	868	1Q	Continue	4676	Continue
f . NICHOLS (Logistics Support)	C/CPAF	Fort Hood, TX	1521	790	1Q	659	1Q	678	1Q	Continue	3648	Continue
g . ILEX (Field Engineering)	C/CPAF	Fort Hood, TX	763	395	1Q	330	1Q	339	1Q	Continue	1827	Continue
h . ROBBINS- GIOIA (Data Base Management)	C/CPAF	Fort Hood, TX/Fort Monmouth, NJ	607	314	1Q	262	1Q	270	1Q	Continue	1453	Continue
i. GTE	C/CPFF	Fort Hood, TX	468	243	1Q	203	1Q	209	1Q	Continue	1123	Continue
j. EWA	C/CPAF	Fort Hood, TX	283	146	1Q	122	1Q	125	1Q	Continue	676	Continue

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ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 5 - System Development and Demonstration 0604 ☐ 1 ☐ A - Army Tactical Command & Control **C2 Hardware & Softwar** I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of (continued) Location Type Date Date Date Contract 16176 8241 7101 7509 Continue 39027 Continue Subtotal: II. Support Cost FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Contract Performing Activity & Total Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Contract Type Date Date Date a. CECOM Matrix **MIPRs** Fort Hood, TX/Fort 145 0 0 Continue Continue Continue Monmouth, NJ b. In-House Support **MIPRs** Fort Hood, TX 273 159 1Q 133 1Q 137 1Q Continue 702 Continue c. Other Government **MIPRs** Fort Hood, TX 83 55 1Q 46 1Q 48 1Q Continue 232 Continue Support 185 Continue 501 214 179 Continue Continue Subtotal:

	ARM	Y RDT&E CO	ST AN		, ,				Feb	ruary 20		
BUDGET ACTIVITY 5 - System Develo լ	oment and	d Demonstration		060			ctical Co	ommano	l & Cont	rol	PROJEC C2 [
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Complete	Total Cost	Targe Value o Contrac
a . ELECTRONIC PROVING GROUNDS (EPG)	MIPR		4670	2426	1-2Q	2025	1-2Q	2082	1-2Q	Continue	11203	Continu
b . CAMBER (Testing)	CPAF	Fort Hood, TX	875	475	1Q	397	1-2Q	408	1-2Q	Continue	2155	Continu
												Continue
Subtotal:			5545	2901		2422		2490		Continue	13358	Continu
V. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	2901 FY 2005 Cost	FY 2005 Award Date	2422 FY 2006 Cost	FY 2006 Award Date	2490 FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Targe Value o Contra
Subtotal: IV. Management Services a . Not applicable	Method &		Total PYs Cost	FY 2005 Cost	Award	FY 2006 Cost	Award	FY 2007 Cost	Award	Cost To Complete	Total Cost	Targe Value c Contrac
IV. Management Services	Method &		Total PYs Cost	FY 2005 Cost	Award	FY 2006 Cost	Award	FY 2007 Cost	Award	Cost To Complete	Total Cost	Targe Value c Contrac
IV. Management Services a . Not applicable	Method &		Total PYs Cost	FY 2005 Cost	Award	FY 2006 Cost	Award	FY 2007 Cost	Award	Cost To Complete	Total Cost	Targe Value d Contrad

Schedule Detail (R4	Schedule Detail (R4a Exhibit)									
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604□1 □A - Army Tactical Command & Control Hardware & Softwar								
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Army Battle Command System (ABCS) 6.3										
Test/Fixes/Integration										
ABCS 6.4 System of System (SoS) Integration	3Q									
Operation Iraqi Freedom (OIF)	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q				
ABCS 6.4 Test Window	2-4Q	1Q								
Operation Enduring Freedom (OEF)		3-4Q	1-4Q	1-4Q	1-4Q	1-4Q				
I Corps Warfighter		1Q								
Prairie Warrior 05		3Q								
III Corps Warfighter			1Q							
Prairie Warrior			3Q	3Q	3Q	3Q				
Ulchie Focus Lens (UFL)			4Q	4Q	4Q	4Q				
Certification Software Blocking		1-4Q	1-4Q	1-4Q	1-4Q	1-4Q				

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	ARMY RDT&E BUDGET ITE	F	ebruary	2005							
	ACTIVITY tem Development and Demonstratio		PE NUMBER AND TITLE 0604⊡1⊡A - Army Tactical Commai Hardware & Softwar					PROJECT nd & Control C34			
	COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
C34	ARMY TAC C2 SYS ENG	27220	10296	16449	9336	9219	9219	0	С	Continuing	0

A. Mission Description and Budget Item Justification: Project DC34 - Army Tactical Command and Control Systems (ATCCS) Engineering which is also referred to as Systems Engineering and Integration (SE&I): Doctrine requires military leaders to make sound and timely command and control decisions to direct the activities of assigned and supporting units. The umbrella program to exploit automation technology in support of this mission is the ATCCS or SE&I program. The effort to achieve horizontal integration of the ATCCS Battlefield Functional Areas (BFAs), although going on independently in each BFA, was not disciplined enough to address all connections and needs within the entire spectra of command, control and communications. Therefore, to ensure this horizontal integration effort is complete and fully automated, a significant management, systems engineering and integration effort is required. This effort, supporting the Army Battle Command Systems (ABCS) Version 6.30, includes fielding the ABCS Version 6.4 to the entire Army in four years and the currrent to the future transition path. The four year fielding is with "Good Enough" software and the future transition path was developed as the "Top Down Architecture".

Accomplishments/Diamed Drawers	EV 2004	EV 2005	EV 2006	EV 2007
Accomplishments/Planned Program		FY 2005		
Continue Army Battle Command System (ABCS) Integrated Logistics Support	482	187	382	
Continue ABCS Testing and Evaluation of all Battlefield Functional Area (BFA) fielded software	1210	477	803	447
Continue ABCS Fielding/Scheduling	2212	936	1410	785
Continue ABCS Integrated Training Support	2177	840	0	0
Continue ABCS information engineering	2247	1126	2443	1383
Conduct and support system interoperability engineering	907	346	571	318
Continue exploring state of the art technology insertion in support of the ABCS program	472	180	373	208
Continue development and implementation of the ABCS information assurance	1080	452	525	292
Continue ABCS System Engineering	8040	2738	5082	2987
Continue System of Systems Development	7630	3014	4860	2703
Small Business Innovative Research/Small Business Technology Transfer Programs	681	0	0	0
Small Business Technology Transfer Programs	82	0	0	0
Totals	27220	10296	16449	9336

0604818A (C34) ARMY TAC C2 SYS ENG Exhibit R-2A Budget Item Justification

ARMY RDT&E BUDGET ITEM JUSTIF	CATION (R2a Exhibit)	February 2005
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604□1□A - Army Tactical Commar Hardware & Softwar	PROJECT
B. Other Program Funding Summary: Not applicable for this item.		
C. Acquisition Strategy: This project provides the technical and programmatic d management, testing, interoperability, support to fielding and sustainment to ensi The Program Executive Officer for Command, Control, Communications, Tactic ends in first quarter FY08. Fiscal years FY08 and FY09 will focus on "Systems"	are an interoperable and affordable Army Tactical C cal (PEO C3T) has planned an evolutionary approac	Command and Control Systems (ATCCS). The to fielding ABCS 6.4 in four years which

ARMY RDT&E COST ANALYSIS(R3) February 2005 PROJECT **BUDGET ACTIVITY** PE NUMBER AND TITLE 5 - System Development and Demonstration 0604 ☐ 1 ☐ A - Army Tactical Command & Control C34 Hardware & Softwar I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & PYs Cost Cost Value of Location Cost Award Award Cost Award Complete Cost Contract Type Date Date Date a. Northrop Grumman C/CPIF Fort Monmouth. 9463 565 1Q 595 1Q 692 1Q Continue 11315 Continue NJ/Fort Hood, TX C/CPAF Continue b. CSC, NICHOLS Fort Monmouth. 31283 1251 1Q 4250 1Q 1094 37878 Continue NJ/Fort Hood, TX c. MITRE C/CPFF Ft Monmouth. 27425 5714 1Q 7517 10 4255 10 Continue 44911 Continue NJ/Eatontown, NJ d . MANTECH (Direct C/CPFF 0 0 6496 Fort Monmouth. 6496 6546 NJ/Fort Hood, TX Labor) e. CAMBER (Config C/CPAF Fort Hood, TX 0 0 855 1788 1788 Mgt/) Fort Monmouth, f. ROBBINS-GIOIA C/CPAF 4972 540 1Q 1620 1Q 890 1Q Continue 8022 Continue NJ/Fort Hood, TX ი 0 q. LOCKHEED MARTIN C/CPAF Eatontown, NJ 6034 Continue 1Q Continue 6034 h . GTE (Labor and C/CPFF Fort Hood, TX 2281 n 0 1Q Continue Continue 2281 Equipment) i. Misc Contracts C/CPAF Fort Monmouth. 5703 185 1-2Q 278 1Q 90 1-2Q Continue Continue 6256 NJ/Fort Hood, TX Unixpros C/CPAF Eatontown, NJ 3711 0 0 3711 3711

0604818A (C34) ARMY TAC C2 SYS ENG Item No. 119 Page 29 of 46 1010

ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 5 - System Development and Demonstration 0604 ☐ 1 ☐ A - Army Tactical Command & Control C34 **Hardware & Softwar** FY 2007 I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 Cost To Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of (continued) Type Date Date Date Contract k. ATSC **MIPR** Fort Leavenworth, KY 1850 0 1Q 0 Continue 1850 Continue 0 0 I. IDA **MIPR** Fort Monmouth, NJ 1724 1Q 1724 Continue Continue m. ITT C/CPAF Eatontown, NJ 1070 0 0 Continue Continue Continue n. BOOZ-ALLEN C/CPAF Eatontown, NJ 1950 0 0 1Q Continue 1950 Continue Continue Continue C/CPAF 1521 464 1-2Q 525 1-2Q 566 1-2Q 3076 o. MISCELLANEOUS Eatontown, NJ/Fort SUPPORT Hood, TX 107271 8719 14785 7587 Continue Continue Continue Subtotal:

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ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PROJECT PE NUMBER AND TITLE 5 - System Development and Demonstration 0604 ☐ 1 ☐ A - Army Tactical Command & Control C34 Hardware & Softwar II. Support Cost Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & PYs Cost Cost Complete Cost Value of Location Cost Award Award Cost Award Contract Type Date Date Date a . IN-HOUSE SUPPORT **MIPRs** Fort Monmouth. 5727 335 1Q 352 1Q 370 1Q Continue 6784 Continue NJ/Fort Hood, TX b. CECOM MATRIX **MIPRs** Fort Monmouth. 4045 982 1Q 1031 1Q 1083 1Q Continue 7141 Continue NJ/Fort Hood, TX c. OTHER **MIPRs** Fort Monmouth. 3339 130 1Q 137 10 144 10 Continue Continue 3750 GOVERNMENT NJ/Fort Hood, TX/Fort SUPPORT Belvoir, VA 13111 1447 1520 1597 Continue 17675 Continue Subtotal: FY 2006 III. Test and Evaluation Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & PYs Cost Location Cost Award Cost Award Cost Award Complete Cost Value of Type Date Date Date Contract a. EPG **MIPR** Fort Huachuca, AZ 152 2463 130 1Q 144 10 1Q Continue 2889 0 130 144 152 0 2463 Continue 2889 Subtotal:

	AKIVI	Y RDT&E CO	OI AN	AL Y S	19(K3)				February 2005				
BUDGET ACTIVITY 5 - System Develo	060	umber an:)4□1 □A - rdware 8	l & Cont	& Control									
V. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Complete	Total Cost	Targe Value o Contra	
a . SBIR/STTR	Various		792	0		0		0		0	792		
Subtotal:			792	0		0		0		0	792		

0604818A (C34) ARMY TAC C2 SYS ENG

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Schedule Detail (R		February 2005							
BUDGET ACTIVITY 5 - System Development and Demonstration		0604□1	ER AND TIT □ A - Arn are & So	ny Tacti	mand &	PROJI nd & Control C3			
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
ABCS 6.3.X	1Q								
NATIONAL TRAINING CENTER (NTC) ROTATIONS	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q			
ABCS 6.4 SOFTWARE DEVELOPMENT and TESTING	1-4Q	1-2Q							
SBCT-2 FIELDING	1-3Q								
SBCT-3 FIELDING	1-4Q	1-3Q							
SBCT - 4 FIELDING	4Q	1-4Q	1-3Q						
SBCT-5 FIELDING		4Q	1-4Q	1-3Q					
SBCT-6 FIELDING			4Q	1-4Q	1-3Q				
FUTURE OPERATIONAL ARCHITECHTURE (OA)/SYSTEM ARCHITECTURE (SA)					1-4Q	1-4Q			
ABCS SYSTEMS ENGINEERING & INTEGRATION TRANSITION TO FCS					1-4Q	1-4Q			
FIELDING OF ABCS 6.4 TO ARMY	4Q	1-4Q	1-4Q	1-4Q	1Q				

0604818A (C34) ARMY TAC C2 SYS ENG Item No. 119 Page 33 of 46
Exhibit R-4a
Budget Item Justification

	ARMY RDT&E BUDGET ITE	t)	February 2005								
	ACTIVITY stem Development and Demonstration		PE NUMBER AND TITLE 0604⊡1⊡A - Army Tactical Command & Cont Hardware & Softwar						PROJECT C3		
	COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
C39	TACTICAL OPERATIONS CENTERS (TOCS)	6260	10387	3048	4408	0	0	0	0	Continuing	0

A. Mission Description and Budget Item Justification: The Tactical Operations Center (TOC) program provides commanders and their staffs with digitized platforms and command information centers, where courses of action become plans, plans become orders and battle tracking occurs. Based on the approved Operational Requirements Document (ORD), a new start TOC program consisting of Command Post Platforms (CPPs) with standardized shelters, installation kits, large screen displays, environmentally-controlled tents and trailer-mounted support systems, will be developed and fielded to future units. The CPPs will integrate Army Battle Command Systems (ABCS), communications equipment, intercoms, and local area networks into a standard Army platform. CPPs are digitized, tactically mobile, and fully integrated using military off-the-shelf, commercial off-the-shelf, non-developmental items, and emerging technologies. Network centric TOCs support joint interoperability, ensuring that information superiority and force synchronization are gained on the tactical and operational battlefield. Fielded TOCs include Current Force TOCs for 4ID and 1CD and Styker Brigade Combat Teams (SBCT 1-3). Currently, the TOC program is providing OEF/OIF support to four units including the Coalition Forces Land Component Command (CFLCC), Coalition Joint Task Force 7, 1CD, and SBCT-2. TOCs/CPPs provide the command post migration path to Future Combat Systems (FCS). FY05 funding provides design, engineering and testing of Rigid Wall Shelter (RWS) CPP and Command Center System (CCS), SICPS family of tents, and supports the integration of TOCs for the Current Force and STRYKER Brigade Combat Teams (SBCTs). FY06 funding completes design, engineering and testing of RWS CPP and CCS, and SICPS family of tents. FY07 funding provides incorporation of engineering changes resulting from IOT&E and begins incorporation of Future Combat System technology spiraled forward.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Design, engineering and test of Stryker Brigade Combat Team TOCs	6260	800	0	0
Design, engineering and testing of Command Post Platforms (CPPs)	0	7013	2195	3324
Government Test Support	0	1476	600	826
In-house Government Support	0	1098	253	258
Totals	6260	10387	3048	4408

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit) February 2005 PE NUMBER AND TITLE **BUDGET ACTIVITY PROJECT** 5 - System Development and Demonstration 0604 ☐ 1 ☐ A - Army Tactical Command & Control **C**3□ Hardware & Softwar FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Compl Total Cost **B. Other Program Funding Summary** 0 Continuing Continuing Other Procurement Army 2 - SSN: BZ9865 72026 49677 58339 48136 55591 54833 C. Acquisition Strategy: The TOC evolutionary acquisition strategy relies on non-developmental items (NDI), Commercial Off-the-Shelf (COTS), and Government-furnished equipment (GFE) to design, integrate, assemble, test, train, and field Tactical Operations Centers (TOCs) and Command Post Platforms (CPPs). A contract was awarded in August 2004, using full and open competition to design, develop and test CPPs Future Force TOCs.

ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 5 - System Development and Demonstration 0604 ☐ 1 ☐ A - Army Tactical Command & Control **C**3□ Hardware & Softwar I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & Location PYs Cost Cost Award Cost Complete Cost Value of Award Cost Award Date Contract Type Date Date GDDS (Huntsville, AL) a. Current Force TOCs C/CPFF 10567 800 0 Continue 11367 Continue b. Current Force TOCs 0 0 0 0 0 c. SBCTs 1,2 & 3 C/CPIF NGMS (Huntsville, 8745 0 0 8745 Continue AL) d. SBCTs 4 C/CPFF PIF/JVIS 682 0 0 682 Continue C/CPIF NGMS (Huntsville, e . Command Post 365 7013 1Q 2195 1Q 3324 1Q Continue 12897 Continue Platforms AL) Various 1488 1098 1-2Q 253 1-2Q 258 1-2Q 0 3097 0 f. In-House and Government Support g . TOC 3D Survivable 4100 0 0 4100 0 Carrier

25947

8911

3582

2448

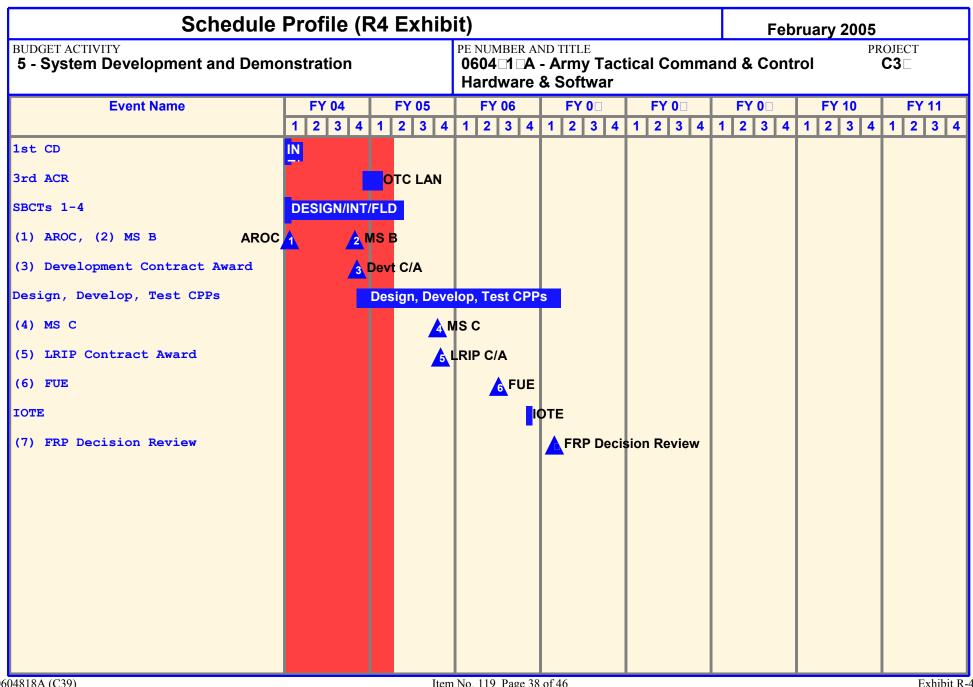
Subtotal:

40888

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BUDGET ACTIVITY 5 - System Develo		Y RDT&E CO	PE N 06 0	UMBER AN:)4			ommand	February 2005 PROJECT nd & Control C3□				
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs 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	Targe Value o Contrac
Subtotal:			0	0		0		0		0	0	(
II. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs 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	Targe Value o Contrac
a . Government Test Support		various	110	1476	1-2Q	600	1-2Q	826	1-2Q	0	3012	
Subtotal:			110	1476		600		826		0	3012	(
		•	•					·				
V. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date		Total Cost	Targe Value o Contrac
Subtotal:			0	0		0		0		0	0	(
	•	•						·				
			26057	10387		3048		4408		Continue	43900	Continue



Schedule Deta	Schedule Detail (R4a Exhibit)									
BUDGET ACTIVITY 5 - System Development and Demonstra	PE NUMBI 0604 □ 1 Hardwa	Control	PROJE VI C3							
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
SBCTs Design/Int /Field	1-4Q	1-2Q								
AROC	1Q									
Milestone B	4Q									
Development Contract Award	4Q									
Design, Develop, Test CPPs		1-4Q	1-4Q	1Q						
Milestone C		4Q								
LRIP Contract Award		4Q								
First Unit Equipped			3Q							
Initial Operational Test & Evaluation			4Q							
Full Rate Production Decision Review				1Q						

	ARMY RDT&E BUDGET ITE	EM JUS	STIFIC	ATION	(R2a	Exhibi	t)	F	ebruary	2005	
	ACTIVITY stem Development and Demonstration		PE NUMBER AND TITLE 0604□1□A - Army Tactical Commar Hardware & Softwar					PROJE nd & Control C3A			
	COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
C3A	ARMY AIRBORNE COMMAND & CONTROL SYS (A2C2S)	22105	7607	7 7521	10045	0	0	0	C	Continuing	Continuing

A. Mission Description and Budget Item Justification: This project funds the development of an Airborne Battle Command On The Move System required to horizontally and vertically integrate a linear and non-linear battlefield. Tasks in this project support research efforts in the engineering and manufacturing development phase of this system. The Army Airborne Command and Control System (A2C2S) is an Army Airborne Battle Command acquisition program for a system supporting the unit of action, unit of employment, and Brigade Combat Teams. The A2C2S enables Commanders and their staffs, to traverse the battle space rapidly - maintaining situational awareness of all battlefield systems - and maintaining communications throughout the decision continuum. Using Battle Command Software and line-of sight and non-line-of sight voice and data communications the A2C2S provides information superiority through a common operational picture. In addition, A2C2S is to the airborne first-responder for Homeland Security and disaster relief by providing a robust communications platform for emergency response coordinators of air and ground operations. It will support initial and remote scene operations center capabilities, convoy operations, and disaster coordination between state, federal, civilian and military assets. This system is critical to enhance the Battle Command Group's ability to effectively perform combat unit operations and serve as a force multiplier in the Future Force. A2C2S supports the Chief's Vision and the modularity concept of the Army Over Time.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Continue System Development and Evaluation BLK I	22105	3107	3321	4945
Development of Supportabilty Package (Log and Training Products)	0	0	0	1250
Continue "Good Enough" Integration (ABCS 6.4 and NLOS SATCOM)	0	3000	2800	0
JTRS Design Integration	0	0	0	0
Continue AWQ, Development and Operational Test	0	1500	1400	700
MS C Prep, S/W Integration and Demonstrations	0	0	0	0
FCS C2 Design	0	0	0	2500
ECS Integration Design	0	0	0	650
Totals	22105	7607	7521	10045

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ARMY RDT&E BUDGET IT	EM JU	JSTIFI	CATIO	ON (R2	a Exh	ibit)		Febru	ıary 2005		
BUDGET ACTIVITY 5 - System Development and Demonstration			0604□	BER AND T 1 □A - Ar vare & So	my Tact	ical Con	nmand ઠ	PROJECT nd & Control C3A			
B. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost	
Airborne Command and Control SSN AA0710	26378	27496	28055	29623	32837	40009	9302	0	Continuing	Continuing	
C. Acquisition Strategy: A competitive cost type contract vin FY03 in support of OEF/OIF.											

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ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 0604 ☐ 1 ☐ A - Army Tactical Command & Control **5 - System Development and Demonstration** C3A Hardware & Softwar I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & Location PYs Cost Cost Award Cost Award Complete Cost Value of Award Cost Date Contract Type Date Date a . System Dev and Eval **CPIF** Raytheon Huntsville, 8672 3851 1Q 4165 1Q 6973 1Q Continue 23661 BIKÍ and TBD b . Prototype Integration **CPIF** 0 0 Continue 9497 0 Raytheon 9497 (Systems 3 - 7) c . Software CPIF Raytheon Huntsville 2618 0 1Q 0 2618 0 Continue Integration/Development d. Systems and Various Raytheon /AMCOM 12599 1285 1Q 500 10 500 1Q Continue 0 14884 **Engineering Logistics** Support e . ABCS SE&I MIPR Ft. Monmouth, NJ 195 0 0 195 0 f. Inhouse/Government Various Various 0 560 1Q 1000 1Q 1400 1Q 2960 0 33581 5696 5665 8873 53815 0 Continue Subtotal:

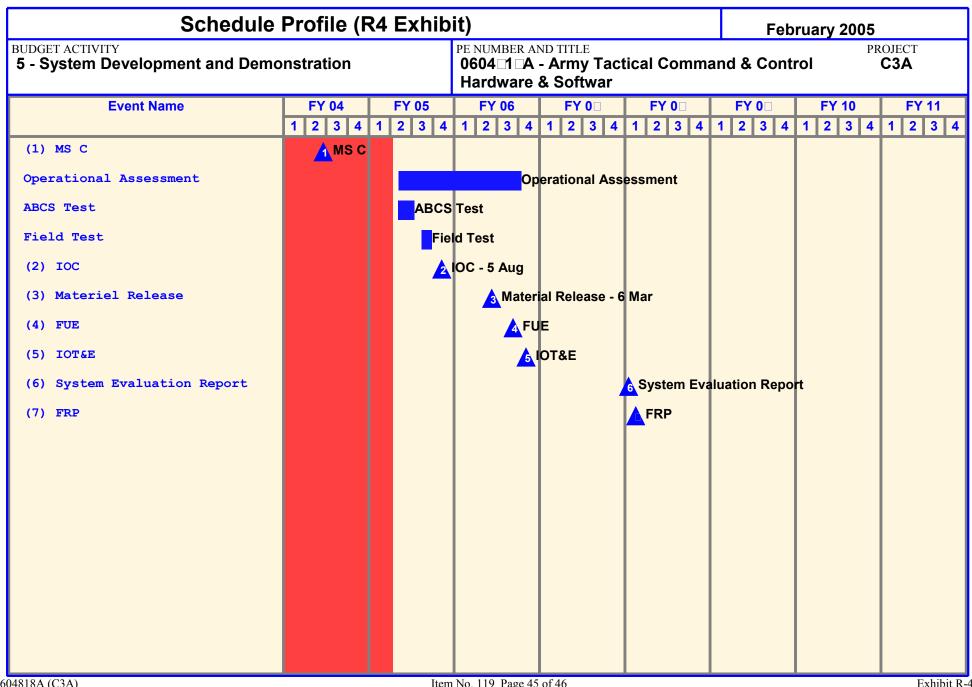
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ARMY RDT&E COST ANALYSIS(R3)									February 2005				
BUDGET ACTIVITY 5 - System Development and Demonstration				060		D TITLE Army Ta S Softwar		ommand	& Cont	PROJECT C3A			
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs 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	Targe Value o Contrac	
a . Support of System 1 and 2 deployed to 4th ID and 101st ABN	Various	Various	3759	0	1Q	0		0		0	3759	C	
Subtotal:			3759	0		0		0		0	3759	С	
II. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs 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	Targe Value o Contrac	
a . Development Test & Evaluation and AWQ	MIPR/CPIF	ATEC/RTTC/AATD/A ED/Raytheon	11903	1502	1Q	406	1Q	702	1Q	Continue	14513	(
b . Operational Test	Various	Various	1883	0	1Q	1000	1Q	0		Continue	2883	(
			13786	1502		1406		702		Continue	17396	(

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Method & Location PYs Cost Cost Award Cost Award Complete C Type Date Date	st Award Complete Cost Value of Contract
a . In-House/Gov't 5219 409 1Q 450 1Q 470 1Q 0 68	0 1Q 0 6548
Subtotal: 5219 409 450 470 0 68	0 6548

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Schedule Detail (R4a Exhibit)								February 2005		
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604⊡1□A - Army Tactical Comma Hardware & Softwar					and & Control			
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Continue System Development and Evaluation BLK I and P3I	1-4Q	1-4Q	1-4Q	1-4Q						
Continue/Complete A2C2S Prototype Fabrication and Platform Integration Systems	1-4Q									
Continue System Engineering, Software Integration and Logistics Planning for A2C2S	1-4Q	1-4Q	1-4Q	1-4Q						
Continue Development Testing	1-4Q	1-4Q	1-4Q	1-4Q						
Operational Testing	1-4Q	1-4Q	1-4Q							

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