

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software
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COST <i>(In Thousands)</i>	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	33993	38970	33420	37335	35713	23230	23441	Continuing	Continuing
DC34 Army Tactical C2 Systems(ATCCS) Engineering	18936	17727	16214	16497	16653	8764	8979	Continuing	Continuing
DC39 Tactical Operations Centers(TOCs)	4679	6234	6027	7896	5968	0	0	Continuing	Continuing
D323 Common Hardware Systems	10378	15009	6569	8243	8316	8958	8898	Continuing	Continuing
D334 Common Software	0	0	4610	4699	4776	5508	5564	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) Advanced Field Artillery Tactical Data System (AFATDS); (3) All Source Analysis System (ASAS) for Intelligence/Electronic Warfare; (4) Forward Area Air Defense Command, Control and Intelligence System (FAADC2I); and (5) Combat Service Support Control System (CSSCS) and to other Army Joint and Allied systems. 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 provides the required 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 project 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 Software (CHS) project provides common hardware and software 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.

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B. Program Change Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (<u>FY 2000/2001</u> PB)	32548	35299	33620
Appropriated Value	32929	39799	
Adjustments to Appropriated Value			
a. Congressional General Reductions	-381		
b. SBIR / STTR	-786		
c. Omnibus or Other Above Threshold Reprogrammings		-650	
d. Below Threshold Reprogramming	2361		
e. Rescissions	-130	-179	
Adjustments to Budget Years Since <u>FY 2000/2001</u> PB			-200
Current Budget Submit (<u>FY 2001</u> PB)	33993	38970	33420

Change Summary Explanation: Funding – FY 2000: Transfer of funds (-500) to O&M, Defense-wide as directed in Section 219 of the Omnibus Consolidation Appropriation to help complete the Washington Square project, initiated by the Department of Defense in previous years.

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software				PROJECT DC34		
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost	
DC34 Army Tactical C2 Systems(ATCCS) Engineering	18936	17727	16214	16497	16653	8764	8979	Continuing	Continuing	
<p>A. <u>Mission Description and Budget Item Justification:</u> Project DC34 – Army Tactical C2 Systems (ATCCS) Engineering: The Air/Land Battle 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 program, a component of the Army Battle Command System (ABCS). The effort to achieve horizontal integration of the ATCCS 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. Within the SE&I line, requirements accomplished are Common Look & Feel/Common Tactical Picture, Joint Common Data Base/Interoperability, Inter-TOC Data Distribution, and Security Engineering (Protection of the Force). In addition, a key component of the overall effort is the Central Technical Support Facility (CTSF) which 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. 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.</p> <p>FY 1999 Accomplishments</p> <ul style="list-style-type: none"> • 200 Conducted and supported system configuration management /development and support • 1750 Continued ABCS/ABCS Integrated Logistics Support • 1000 Continued ABCS/AWE Testing and Evaluation of all BFA fielded software • 525 Continued ABCS/AWE Fielding/Scheduling • 1797 Continued ABCS/AWE information engineering • 374 Conducted and supported system interoperability engineering • 150 Continued exploring state of the art technology insertion in support of the ABCS program • 175 Continued development and implementation of the ABCS information assurance • 1839 Continued ABCS/AWE System Engineering and Integration • 1560 Continued development of ABCS/AWE System Architecture • 1541 Central Technical Support Facility (CTSF) Fort Hood Operations • 8025 Central Technical Support Facility (CTSF-TD) efforts to meet the Army’s digital fielding requirements. <p>Total 18936</p>										
Project DC34	Page 3 of 14 Pages				Exhibit R-2A (PE 0604818A)					

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		DATE February 2000
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software	PROJECT DC34
FY 2000 Planned Program:		
<ul style="list-style-type: none"> • 194 • 1690 • 964 • 508 • 1735 • 362 • 145 • 170 • 1257 • 988 • 1489 • 7748 • 477 <p>Total 17727</p>	<ul style="list-style-type: none"> Conduct and supported system configuration management /development and support Continue ABCS/ABCS Integrated Logistics Support Continue ABCS/AWE Testing and Evaluation of all BFA fielded software Continue ABCS/AWE Fielding/Scheduling Continue ABCS /AWE information engineering Conduct and supported system interoperability engineering Continue exploring state of the art technology insertion in support of the ABCS program Continue development and implementation of the ABCS information assurance Continue ABCS/AWE System Engineering and Integration Continue development of ABCS/AWE System Architecture Central Technical Support Facility (CTSF) Fort Hood Operations Central Technical Support Facility (CTSF-TD) efforts to meet the Army's digital fielding requirements. Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR) 	
FY 2001 Planned Program:		
<ul style="list-style-type: none"> • 200 • 1750 • 925 • 525 • 1797 • 374 • 150 • 175 • 528 • 561 • 1229 • 8000 <p>Total 16214</p>	<ul style="list-style-type: none"> Conduct and supported system configuration management /development and support Continue ABCS/ABCS Integrated Logistics Support Continue ABCS/AWE Testing and Evaluation of all BFA fielded software Continue ABCS/AWE Fielding/Scheduling Continue ABCS/AWE information engineering Conduct and supported system interoperability engineering Continue exploring state of the art technology insertion in support of the ABCS program Continue development and implementation of the ABCS information assurance Continue ABCS/AWE System Engineering and Integration Continue development of ABCS/AWE System Architecture Central Technical Support Facility (CTSF) Fort Hood Operations Central Technical Support Facility Technical Division (CTSF-TD) efforts to meet the Army's digital fielding requirements. 	
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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		DATE February 2000
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software	PROJECT DC34

B. Other Program Funding Summary: Not applicable

C. Acquisition Strategy: This project provides the technical and programmatic disciplines required for systems engineering and integration, experimentation, acquisition management, testing, software development, interoperability, fielding, and sustainment to insure an interoperable and affordable ATCCS. The Program Executive Officer for Command , Control, and Communications (PEO C3S) has planned an evolutionary approach to fielding ATCCS as soon as possible.

D. Schedule Profile	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
CORPS/JTF	1Q						
NTC 99-05	2Q						
PRAIRIE WARRIOR 99	3Q						
ABCS INTEROPERABILITY TEST	3Q						
CORPS UFL	4Q						
DIGITAL TOC DELIVERIES (Begin)		1Q					
ABCS 6.0 SOFTWARE INTEGRATION		2Q					
Prairie Warrior 00		3Q					
ABCS 6.1 SOFTWARE INTEGRATION		3Q					
JCF AWE		4Q					
FDD UPGRADE BASELINE		4Q					
UFL		4Q					
ABCS 6.2 SOFTWARE INTEGRATION		4Q					
NTC 01-1			1Q				
ABCS 7.0 SOFTWARE INTEGRATION				2Q			
NTC 00-05				2Q			
SE 01-2				1Q & 3Q			
Second Digitized Division (2DD)					4Q		
Digitized Corps						4Q	
101 ST AA (Air Assault)							2Q
Digitize XVIII Corps							3Q

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ARMY RDT&E COST ANALYSIS (R-3)

DATE **February 2000**

BUDGET ACTIVITY
5 - Engineering and Manufacturing Development

PE NUMBER AND TITLE
0604818A Army Tactical Command and Control
Hardware & Software

PROJECT
DC34

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. TRW	PWD	Fort Mon/Fort Hood	1000			80	Apr 00	80	Dec 00	Cont	1160	
b. CSC	PWD	Fort Mon/Fort Hood	10132	4550	Jan 99	4800	Jan 00	4450	Jan 01	Cont	23932	
c. MITRE	MIPR	Ft Mon/Eatontown, NJ	1904	3752	Dec 98	4000	Dec 99	4200	Dec 00	Cont	13856	
d. MANTECH	PWD	Fort Mon/Fort Hood		4525	Jan 99	3725	Jan 00	3375	Jan 01	Cont	11625	
e. EPG	MIPR	Fort Huachuca		350	Jul 99	800	Apr 00	800	Apr 01	Cont	1950	
f. CAMBER	PWD	Fort Hood		179	Dec 98	184	Dec 99	194	Dec 00	Cont	557	
g. TELOS	PWD	Fort Monmouth		182	Apr 99	180	Apr 00	180	Apr 01	Cont	542	
h. ROBBINS-GIOIA	PWD	Fort Mon/Fort Hood		371	Apr 99	420	Apr 00	420	Apr 01	Cont	1211	
i. RAYTHEON	PWD	Fort Mon/Fort Hood		200	Dec 98	210	Dec 99	225	Dec 00	Cont	635	
j. EWA	MIPR	Fort Hood		265	Mar 99	200	Mar 00	150	Mar 01	Cont	615	
k. GTE	PWD	Fort Hood		80	Dec 98	80	Dec 99	80	Dec 00	Cont	240	
l. Misc Contracts	PWD	Fort Mon/Fort Hood	2500	2841	Jan 99	1247	1Q-2Q	295	1Q-2Q	Cont	6883	
Subtotal Product Development:			15536	17295		15926		14449			63206	

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. In-House Support	MIPRs	Fort Mon/Fort Hood	3406	641	Dec 98	801	Dec 99	840	Dec 00	Cont	5688	
Subtotal Support Costs:			3406	641		801		840			5688	

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
	PWD	Fort Mon/Fort Hood		1000	Apr 99	1000	Dec 99	925	Dec 00	Cont	2925	
Subtotal Test and Evaluation:				1000		1000		925			2925	

[response to your survey](#) IV. Management Services: Not applicable

Project Total Cost:			18942	18936		17727		16214			71819	
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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software				PROJECT DC39	
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
DC39 Tactical Operations Centers(TOCs)	4679	6234	6027	7896	5968	0	0	Continuing	Continuing
<p>A. <u>Mission Description and Budget Item Justification:</u> The Army Tactical Operations Center (TOC) program provides commanders and staff (all echelons of command from Battalion to Corps) with integrated digitized command and control facilities to exploit the enhanced situational awareness and force multiplier effect gained through digitization. The objective is battlefield dominance using interoperable, robust Army Battle Command System (ABCS) components operating in a Defense Information Infrastructure (DII)/Common Operating Environment (COE) compliant architecture. This RDTE program provides continued support to prototype TOCs developed for Division XXI AWE and develops/matures the enabling technologies required to meet the “objective” requirements of the ABCS Capstone Requirements Document (CRD). Examples include TOC wireless LANs and Command Information Center (CIC) intercoms to meet the CRD requirement for a “virtual” TOC (i.e., a TOC which can be widely dispersed, but digitally connected so that each dispersed element is virtually face-to-face and has the same operational picture and situational awareness). Other efforts include a new Command Information Center shelter that meets the mobility, functionality, set up time, and protection requirements. This project also provides funds for the First Digitized Division (FDD) and First Digitized Corps (FDC) TOC integration and required design and engineering of TOC platforms and shelters. The Army TOC program is critical to the success of Army Digitization Modernization and to provide warfighters with the tools to win the information war.</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 2000 Sustain Division XXI prototype TOCs • 1679 System and design engineering, technology assessments, and technology integration for First Digitized Division (FDD) • 1000 Program planning, integrated logistics support, program management, test planning, and program integration for FDD. <p>Total 4679</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 1500 Sustain Division XXI prototype TOCs • 3046 Develop enabling technologies and technology insertion. • 1520 System and design engineering for FDD and III Corps • 168 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR) <p>Total 6234</p>									
Project DC39			Page 7 of 14 Pages				Exhibit R-2A (PE 0604818A)		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software			PROJECT DC39			
<p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 1500 Sustain Division XXI prototype TOCs. • 2282 System and design engineering for III Corps • 2245 Develop enabling technologies and technology insertion. <p>Total 6027</p>										
B. Other Program Funding Summary		<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>
Other Procurement Army 2 – SSN: BZ9865		33995	27969	17260	29348	32231	0	0	Cont	Cont
<p>C. Acquisition Strategy: The acquisition strategy awarded a contract for design, integration, assembly, test, training, and fielding of FDD and 1st Cav Div TOCs via full and open competition. Sustainment of existing prototype Div XXI AWE TOCs continues by sole source to the prototype contractor. Army TOC contracts for FDC and beyond will be awarded by full and open competition.</p>										
D. Schedule Profile		<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>		
Design Reviews		4Q	4Q	4Q	4Q	4Q				
Interoperability Demonstration			3Q	3Q	1Q					

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software					PROJECT DC39		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. TRW	SS/CPFF	Huntsville, AL		2062	Jan 99	1500	Dec 99	1500	Dec 00	Cont	Cont	
b. Motorola	C/CPFF	Huntsville, AL		2025	Feb 99	3407	Mar 00	3299	Feb 01	Cont	Cont	
c. In-House/Gov't Support	Various	Various		492		959		1028		Cont	Cont	
d. SBIR/STTR						168					168	
Subtotal Product Development:				4579		6034		5827		Cont	Cont	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. SETA	Various	Various		100	Mar 99	200	Feb 00	200	Feb 01	Cont	Cont	
Subtotal Support Costs:				100		200		200		Cont	Cont	
III. Test and Evaluation: Not applicable												
IV. Management Services: Not Applicable												
Project Total Cost:				4679		6234		6027		Cont	Cont	

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development			PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software					PROJECT D323		
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost	
D323 Common Hardware Systems	10378	15009	6569	8243	8316	8958	8898	Continuing	Continuing	
<p>A. <u>Mission Description and Justification:</u> Project D323 Common Hardware/Software (CHS): CHS is the program through which the Army builds its integrated efforts for tying together the Army Battle Command Systems (ABCS). The project provides vehicles (contracts) through which customers can acquire state-of-the-art common hardware/software and associated peripherals to meet developmental and fielding needs. The project also provides software technology support and command post internal structures within shelters. The common software supports Army, other Services and Joint systems. The CHS program is instrumental in digitizing the battlefield. The DII COE project will be established under PE 64818A D334 in FY01. The split of funds is still in effect with the FY99 and FY00 funding breakout for PE 64818 D323.</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 3459 Continued management of the acquisition and delivery of CHS-2/LCU equipment in support of customer requirements. • 1255 Continued execution of common hardware, software technology and software reuse programs • 520 Continued supporting customers testing efforts with CHS equipment • 200 Continued exploring state of the art technology insertion in support of ABCS programs • 4944 Continued developing and upgrading DII COE products/integrate into ABCS systems and other Army systems <p>Total 10378</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 1395 Continue management of the acquisition and delivery of CHS-2 equipment in support of customer requirements • 3214 Continue execution of common hardware, software technology and software reuse program • 575 Continue supporting customers testing efforts with CHS equipment • 510 Continue exploring state of the art technology insertion in support of ABCS programs • 4985 Continue developing and upgrading DII COE products/integrate into ABCS systems and other Army systems • 4000 Leverage advanced 3-D display Technologies for Army and other services • 330 Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) programs <p>Total 15009</p>										
Project D323			Page 10 of 14 Pages				Exhibit R-2A (PE 0604818A)			

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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software	PROJECT D323

FY 2001 Planned Program:

- 1711 Continue management of the acquisition and delivery of CHS-2 equipment in support of customer requirements and proceed to CHS ABCS Information Technology (AIT) contract award
 - 3598 Continue execution of common hardware, software technology and software reuse program
 - 617 Continue supporting customers testing efforts with CHS equipment
 - 643 Continue exploring state of the art technology insertion in support of ABCS programs
- Total 6569

B. Other Program Funding Summary: Not Applicable

C. Acquisition Strategy: : The overall goal is to improve interoperability 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 software. Four NDI hardware versions are available to meet specific needs of each Battlefield Functional Area (BFA): handheld, portable, transportable and lightweight computer unit

D. Schedule Profile	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
LCU contract expires			3Q				
CHS-2 Technology Insertion (continuous)	1Q-4Q						
Initiate follow-on CHS ABCS Information Technology (AIT) Contract Requirements effort				1Q			
CHS AIT contract award					2Q		
Delivery of AIT V2 production hardware						3Q	
CHS-2 contract expires							3Q

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ARMY RDT&E COST ANALYSIS (R-3)										DATE February 2000		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software						PROJECT D323		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	<u>FY1999 Cost</u>	<u>FY1999 Award Date</u>	<u>FY2000 Cost</u>	<u>FY2000 Award Date</u>	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Matrix-CECOM	MIPR	Ft. Monmouth	18791	1850	1-2Q	2100	1-2Q	1876	1-2Q	Cont	Cont	Cont'd
b. In-House		PM ATCCS, FM, NJ	18273	1350	N/A	2048	N/A	2188	N/A	Cont	Cont	
c. Primary Contract	FFP/IDIQ	Ft. Monmouth, NJ	6798	200	1-3Q	275	1-3Q	997	1-3Q	Cont	Cont	
d. Misc Contract	Competitive/T &M	Ft. Monmouth, NJ	27378	1404	1-3Q	796	1-3Q	1128	1-3Q	Cont	Cont	
e. CSC	Competitive/T &M	Ft. Monmouth, NJ	6055	4944	1-3Q	4740	1-3Q	0	N/A	0	15739	
f. MITRE (FFRDC)	MIPR	MITRE, Eatontown, NJ	9148	630	Dec 98	720	Dec 99	380	Dec 00	Cont	Cont	
g. 3-D Display Technology	TBD	Concurrent Technology Corp., PA		0	N/A	4000	2Q	0	N/A	4000	8000	
h. SBIR/STRR						330					330	
Subtotal Product Development:			86443	10378		15009		6569		Cont	Cont	
II. Support Costs: Not Applicable												
III. Test and Evaluation: Not Applicable												
IV. Management Services: Not Applicable												
Project Total Cost:			86443	10378		15009		6569		Cont	Cont	

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							DATE February 2000			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software				PROJECT D334		
COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost	
D334 Common Software	0	0	4610	4699	4776	5508	5564	Continuing	Continuing	
<p>A. <u>Mission Description and Budget Item Justification:</u> 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 Defense Information Infrastructure Common Operating Environment (DII COE). The CS project provides state-of-the-art software technologies. The CS program is a cornerstone in the Army's battlefield digitization efforts.</p> <p>FY 1999 Accomplishments: Project funded in D323</p> <p>FY 2000 Planned Program: Project funded in D323</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 1300 Continue the management of the acquisition and delivery of CS and COTS products in support of Army and Joint Service customer requirements. • 3310 Continue execution of the common software technology and reuse program, continue supporting customer integration and testing, continue the exploration and evaluation of new software technologies in support of the overall CS program and continue developing, upgrading and delivery of DII COE products into Army and Joint Service systems. <p>Total 4610</p> <p>B. <u>Other Program Funding Summary:</u> Not applicable</p> <p>C. <u>Acquisition Strategy:</u> The overall goal is to improve software development, integration and interoperability, and to lower life cycle costs by providing common software products to the Army and Joint Services. This strategy will be realized through defines Application Program Interfaces (APIs), standardized protocols, reusable software and standard commercial products.</p> <p>D. <u>Schedule Profile:</u> Delivery of software is every six months.</p>										
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ARMY RDT&E COST ANALYSIS (R-3)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604818A Army Tactical Command and Control Hardware & Software	PROJECT D334
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Matrix-CECOM	MIPR	Ft Monmouth, NJ						800	1-3Q	Cont	Cont	
b. In-House		PM ATCCS, FM NJ						500	1-4Q	Cont	Cont	
c. Misc Contracts	MIPR	GSA-FEDSIM Falls Church, VA						165	1-3Q	Cont	Cont	
d. CSC	Competitive with options	Ft Monmouth, NJ						3145	1-3Q	Cont	Cont	
Subtotal Product Development:								4610		Cont	Cont	

II. Support Costs: None

III. Test and Evaluation: None

IV. Management Services: None

Project Total Cost:								4610		Cont	Cont	
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