ARMY RDT&E BUDGET ITE	EM JUS	STIFIC	ATION	(R2 E	xhibit)		Fe	ebruary 2	2005	
BUDGET ACTIVITY 7 - Operational system development		E NUMBER) 203740<i>F</i>		tem	PROJECT 484					
COST ₫n Thousands)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
5 5 5 · :5334135)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
484 MANEUVER CONTROL SYSTEM (MCS)	45403	23350	44903	14987	7285	6750	120	123	Continuing	0

A. Mission Description and Budget Item Justification: This program element funds the development, integration and testing of the Maneuver Control System (MCS) to include injectors for Joint Tactical COP Workstation (JTCW) and Command Post of the Future (CPOF). Project satisfies an urgent need for the efficient command and control (C2) of tactical operations on the battlefield. MCS is the Army's tactical C2 system used in command posts from corps to battalion to provide automated C2 for the commander and staff at and between echelons (i.e., Force Level Control). MCS is an essential component of the Army Battle Command System (ABCS) and provides critical coordination among Battlefield Functional Areas (BFAs) within each echelon. The primary component of Force Level Control is MCS's provision of the Common Operational Picture (COP). The COP depicts information provided by all the BFAs and includes a Situation Map (SITMAP) using Defense Mapping Agency data to display friendly and enemy unit locations, control measures (e.g., boundaries, phase lines, etc.), Intelligence and Electronic Warfare graphics, Fire Support plans, combat service support location information, air corridors and air defense weapons control information.

MCS software is based on the Defense Information Infrastructure(DII) Common Operating Environment (COE) standard architecture with applications to automate C2 operations. The MCS software uses the Joint Mapping Tool Kit (JMTK), a Defense Information Infrastructure Common Operating Environment (DII COE) product, for terrain analysis, planning and SITMAP graphical displays. The Task Organization (TO) tool provides the commander and staff a means of organizing (graphically and textually) tactical Army units. Unit commanders and their staffs can quickly and efficiently prepare and disseminate combat orders with MCS's automated Operations Order (OPORD) generating tool. MCS report displays provide resource information roll-ups on all battlefield units. MCS supports battlefield situation displays for all ABCS BFAs. MCS provides the Global Command and Control System - Army (GCCS-A) the Army "ground track" segment of the joint tactical common picture.

Accomplishments/Planned Program	FY 20	04 FY 2005	FY 2006	FY 2007
Conduct MCS software development and support	305	13253	6450	6225
Plan and participate in test events, and prepare for the MCS Operational Tests	23	00 2555	0	0
Conduct MCS 6.4 IOT&E	54	00 3942	0	0
JTCW Development		0 3600	20057	8762
CPOF Development	72	00 0	18396	0
Totals	454	3 23350	44903	14987

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit) BUDGET ACTIVITY 7 - Operational system development PE NUMBER AND TITLE 0203740A - Maneuver Control System 484

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget IFY 2005)	24753	16388	11774
Current Budget IFY 2006/2007 PB)	23350	44903	14987
Total Adjustments	-1403	28515	3213
Net of Program/Database Changes			
Congressional Program Reductions	-818		
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-585		
Adjustments to Budget Years		28515	3213

 $FY \Box 6/\Box 7$: Funds increased to cover development and Operational Testing of Joint Tactical COP Workstation (JTCW) and development for the Command Post of the Future (CPOF).

C. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	ToCompl	TotalCost
							_		·	
BA9320 - Maneuver Control System IMCS)	35689	28553	49562	38786	31127	2122	1002	0	Continue	Continue
BS9710 - MCS Spares	1888	1919	1834	1906	1499	1529	0	0	Continue	Continue

ARMY RDT&E BUDGET ITEM JUSTIF	•	February 2005
BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0203740A - Maneuver Control Syst	PROJECT tem 484
D. Acquisition Strategy: The MCS acquisition strategy is based on modular ruggedized commercial off-the-shelf Common Hardware/ Software (CHS) com Software will be developed, tested, integrated and trained as necessary to meet be fielded, development will continue for Joint Interoperability, Common Oper the field. Priced options on the MCS Software Development contract will be e Release planned for 1QFY□7.	development of application software, integrated with apputers and peripheral hardware that are procured undwarfighter tactical and training requirements. Upon cating Environment and Safety requirements as necess	the common system software, hosted on the er the Army CHS ordering contract. completion of the base capability that is to eary to continue the life of the software in

ARMY RDT&E COST ANALYSIS(R3)

February 2005

BUDGET ACTIVITY 7 - Operational system development PE NUMBER AND TITLE
0203740A - Maneuver Control System

PROJECT 484

. 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			Targe Value o Contrac
a . MCS 6.4 Software Development	C/CPAF	Lockheed Martin Corp., Tinton Falls, NJ	171367	7100	1-2Q	6160	1-2Q	4750	1-2Q	4750	194127	19732
b . JTCW Development	C/CPAF	Lockheed Martin Corp., Tinton Falls, NJ	0	3600	1-2Q	14226	1-2Q	4509	1-2Q	Continue	Continue	
c . CPOF Development	MIPR	DARPA	5700	0		0		0		0	5700	
d . CPOF Development	C/CP	To Be Selected	0	0		14124	1-2Q	0		Continue	Continue	
e . Misc Contracts	Various	Various	13933	1025	1-2Q	1880	1-2Q	658	1-2Q	Continue	Continue	
f . Software Development & Technical Support	MIPR	CECOM, NJ	25245	2843	1-2Q	2500	1-2Q	1067	1-2Q	Continue	Continue	
g . Technical Support	In House	PM GC C2, NJ	12037	2079	1-4Q	2183	1-4Q	830	1-4Q	Continue	Continue	
h . PSE H/W & S/W	Various	Various	2575	0		200	2Q	200	2Q	Continue	Continue	
i . MITRE System Engineering	CPFF	MITRE Corp., Eatontown, NJ	8615	1106	1Q	875	1Q	755	1Q	Continue	Continue	
j . ABCS SE&I	MIPR	PEO C3T, NJ	1830	0		0		0		0	1830	
Subtotal:			241302	17753		42148		12769		Continue	Continue	19732

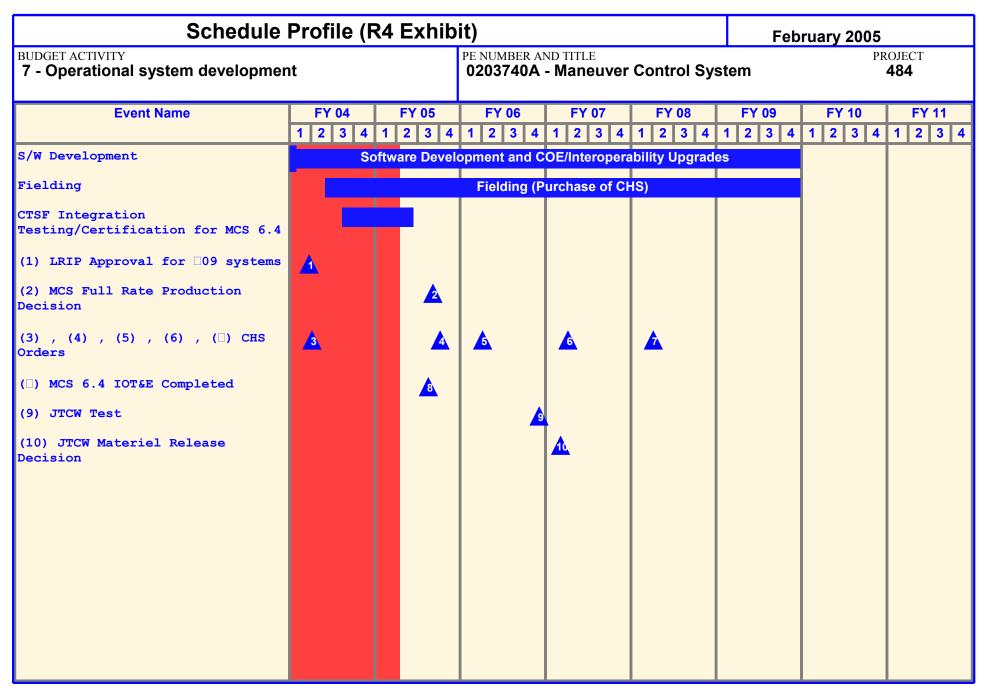
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ARMY RDT&E COST ANALYSIS(R3) February 2005 PROJECT BUDGET ACTIVITY PE NUMBER AND TITLE 7 - Operational system development 0203740A - Maneuver Control System 484 II. Support Cost Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Complete Method & Location PYs Cost Cost Award Cost Award Cost Award Cost Value of Date Contract Type Date Date a . Misc Support In House PM GC C2, NJ 3386 478 550 1-4Q Continue Continue 1-4Q 490 1-4Q 0 Continue Continue b. Misc Contracts 1963 165 1-2Q 200 1-3Q 225 1-2Q 0 Various Various 5349 643 690 775 Continue Continue 0 Subtotal: Performing Activity & FY 2005 FY 2005 FY 2006 FY 2007 III. Test and Evaluation Contract Total FY 2006 FY 2007 Cost To Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Contract Type Date Date Date a. OGA **MIPR** 2938 727 1-2Q 435 1-2Q 267 1Q Continue Continue Various 0 250 Continue Continue 0 b. Misc Contracts Various Various 4071 508 1-2Q 422 1-2Q c. Operational Continue Continue **MIPR** Various 16463 3065 1-2Q 524 2-3Q 221 0 Test/Planning 23472 4300 738 Continue Continue 0 1381 Subtotal:

□2□374□A Maneuver Control System Item No. 158 Page 5 of 8 189 Exhibit R-3 Cost Analysis

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7 - Operational sys	stem deve	lopment			UMBER ANI)3740A -		er Contro	ol Systei	m		PROJEC 484	
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 Mgmt	In House	PM GC C2, NJ	2105	654	1-4Q	684	1-4Q	705	1-4Q	Continue	Continue	(
Subtotal:			2105	654		684		705		Continue	Continue	(
Project Total Cost:			272228	23350		44903		14987		Continue	Continue	197327



Schedule Detail (R		February 2005							
			er and tit 0A - Ma i	PROJECT 484					
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
LRIP Approval	1Q								
CTSF Integration/Certification for MCS 6.4	3-4Q	1-2Q							
Complete MCS Initial Operational Test & Evaluation		2-3Q							
MCS Full Rate Production Decision		3Q							
Initial Operational Capability		4Q							
Joint Tactical Common Operational Picture COP)			4Q						
Workstation JCTW) Test									
JTCW Materiel Release Decision				1Q					
Software Development of MCS / JTCW / CPOF	1-4Q	1-4Q	1-4Q						
Evolving Software Upgrades @.g., joint interoperability, COE compliance, etc.)		4Q	1-4Q	1-4Q	1-4Q	1-4Q			

DARPA is transitioning CPOF development to the Army in FY \Box 6 as a preferred solution to meeting certain MCS documentated requirements. Any requirements for further development will be addressed in the FY \Box 7 Army POM.