

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)								February 2006			
BUDGET ACTIVITY 7 - Operational system development			PE NUMBER AND TITLE 0203740A - Maneuver Control System					PROJECT 484			
COST (In Thousands)			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
484	MANEUVER CONTROL SYSTEM (MCS)		31050	40813	37976	22020	21621	15013	15125	0	262977
<p><u>A. Mission Description and Budget Item Justification:</u> 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.</p> <p>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.</p>											
<u>Accomplishments/Planned Program</u>								<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
Conduct MCS software development and support								13171	6450	6225	
Plan and participate in test events, and prepare for the MCS Operational Tests								2555	0	0	
Conduct MCS 6.4 IOT&E								3942	0	0	
JTCW System Engineering & Development								3600	19467	8762	
CPOF Development								7782	14896	22989	
Total								31050	40813	37976	

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<u>B. Program Change Summary</u>				FY 2005	FY 2006	FY 2007			
Previous President's Budget (FY 2006)				23350	44903	14987			
Current BES/President's Budget (FY 2007)				31050	40813	37976			
Total Adjustments				7700	-4090	22989			
Congressional Program Reductions					-3500				
Congressional Rescissions				-20	-590				
Congressional Increases									
Reprogrammings				7720					
SBIR/STTR Transfer									
Adjustments to Budget Years						22989			
Change Summary Explanation: Funding FY05: Funds increased for Command Post of the Future (CPOF) development. FY06: Congressional decrease. FY07: Funds increased for CPOF development and integration.									
<u>C. Other Program Funding Summary</u>									
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
BA9320 - Maneuver Control System (MCS)	43861	73948	77023	89152	97629	91700	53034	CONT	CONT
BS9710 - MCS Spares	1973	1834	1785	1519	1555	0	0	CONT	CONT
Comment:									
<p><u>D. Acquisition Strategy</u> The MCS acquisition strategy is based on modular development of application software, integrated with the common system software, hosted on the ruggedized commercial off-the-shelf Common Hardware/ Software (CHS) computers and peripheral hardware that are procured under the Army CHS ordering contract. Software will be developed, tested, integrated and trained as necessary to meet warfighter tactical and training requirements. Upon completion of the base capability that is to be fielded, development will continue for Joint Interoperability, Common Operating Environment and Safety requirements as necessary to continue the life of the software in the field. Priced options on the MCS Software Development contract will be exercised for JTCW development. Fielding of the JTCW will begin upon obtaining Materiel Release planned for 1QFY08. Army acquisition strategy for technical insertion of Command Post of the Future (CPOF) capabilities into the MCS program is being implemented within this line.</p>									

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0203740A - Maneuver Control System						PROJECT 484		
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	Target Value of Contract
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	197327
JTCW System Engineering & Development	C/CPAF	Lockheed Martin Corp., Tinton Falls, NJ	0	3600	1-2Q	14226	1-2Q	4509	1-2Q	Continue	Continue	0
CPOF Development	MIPR	DARPA	5700	6037		4500	2Q	0		0	16237	0
CPOF Development	TBD	To be selected	0	0		5534	3Q	13689	2Q	Continue	Continue	0
Misc Contracts	Various	Various	13933	1168	1-2Q	1880	1-2Q	1958	1-2Q	Continue	Continue	0
Software Development & Technical Support	MIPR	CECOM, NJ	25245	4363	1-2Q	2500	1-2Q	3167	1-2Q	Continue	Continue	0
Technical Support	In House	PM Battle Command, NJ	12037	2079	1-4Q	2183	1-4Q	2830	1-4Q	Continue	Continue	0
PSE H/W & S/W	Various	Various	2575	0		200	2Q	200	2Q	Continue	Continue	0
MITRE System Engineering	CPFF	MITRE Corp., Eatontown, NJ	8615	1106	1Q	875	1Q	755	1Q	Continue	Continue	0
ABCS SE&I	MIPR	PEO C3T, NJ	1830	0		0		0		0	1830	0
Subtotal:			241302	25453		38058		31858		Continue	Continue	197327
II. Support Costs	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
Misc Support	In House	PM Battle Command, NJ	3386	478	1-4Q	490	1-4Q	550	1-4Q	Continue	Continue	0
Misc Contracts	Various	Various	1963	165	1-2Q	200	1-3Q	475	1-2Q	Continue	Continue	0
Subtotal:			5349	643		690		1025		Continue	Continue	0

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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
OGA	MIPR	Various	2938	727	1-2Q	435	1-2Q	267	1Q	Continue	Continue	0
Misc Contracts	Various	Various	4071	508	1-2Q	422	1-2Q	250	1Q	Continue	Continue	0
Operational Test/Planning	MIPR	Various	16463	3065	1-2Q	524	2-3Q	3221	1-3Q	Continue	Continue	0
Subtotal:			23472	4300		1381		3738		Continue	Continue	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
Program Office Mgmt	In House	PM Battle Command, NJ	2105	654	1-4Q	684	1-4Q	1355	1-4Q	Continue	Continue	0
Subtotal:			2105	654		684		1355		Continue	Continue	0
Project Total Cost:			272228	31050		40813		37976		Continue	Continue	197327

Schedule Profile (R4 Exhibit)																	February 2006															
BUDGET ACTIVITY					PE NUMBER AND TITLE																	PROJECT										
7 - Operational system development					0203740A - Maneuver Control System																	484										
Event Name					FY 05				FY 06				FY 07				FY 08				FY 09				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
S/W Development					S/W Development, Integration and COE/Interoperability Upgrades for MCS/JTCW/CPOF																											
Fielding (Purchase of CHS)					Fielding (Purchase of CHS)																											
CTSF Integration Testing/Certification for MCS 6.4																																
(1) MCS 6.4 IOT&E Completed																																
(2) MCS Full Rate Production Decision																																
(3) CPOF Transitions from DARPA to Army																																
(4) CPOF Development Contract Award																																
(5) JTCW Test																																
(6) JTCW Materiel Release Decision																																

Schedule Detail (R4a Exhibit)					February 2006		
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<u>Schedule Detail</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>
CTSF Integration/Certification for MCS 6.4	1-3Q						
Complete MCS Initial Operational Test & Evaluation	2-3Q						
MCS Full Rate Production Decision	3Q						
Initial Operational Capability	4Q						
Joint Tactical Common Operational Picture (COP) Workstation (JCTW) Test			4Q	1Q			
JTCW Materiel Release Decision				1Q			
Software Development of MCS & JTCW	1-4Q	1-4Q	1-4Q				
Software Development of CPOF	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Evolving Software Upgrades (e.g., joint interoperability, COE compliance, etc.)	4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q