Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army

Date: March 2014

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 7: Operational

PE 0203740A I Maneuver Control System

Systems Development

COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	60.948	36.475	45.092	-	45.092	66.754	22.022	21.006	15.130	Continuing	Continuing
484: Maneuver Control System	-	60.948	36.475	45.092	-	45.092	66.754	22.022	21.006	15.130	Continuing	Continuing

^{*} The FY 2015 OCO Request will be submitted at a later date.

Note

Army

FY 2015 funding will support COE development efforts.

A. Mission Description and Budget Item Justification

Tactical Mission Command (TMC) is a suite of products and services that provide commanders and their staff executive decision making capability in a collaborative environment, planning tools, and Common Operational Picture (COP) management and other maneuver functional tools. TMC satisfies requirements and capabilities identified in the Maneuver Control System (MCS) Good Enough Operational Requirements Document (ORD) and MCS 6.4 Capability Production Document (CPD) which includes Army migration to Department of Defense (DoD) net-centric environment. The overarching capability includes a user-defined COP with integrated Command and Control (C2) and Situational Awareness (SA), map-centric collaboration, Army Battle Command System (ABCS) and other enabling system interoperability, data management, and enterprise services. The suite of products include Command Post of the Future (CPOF), Command Web, Battle Command Common Services (BCCS), and Command Post Client (CPC), that provides the consolidate server and services infrastructure for systems supporting Army Battle Command from Battalion to Army Component Command, Battalion and Above Joint Convergence with the Marine Corps, and Tactical Web Portal for Knowledge management. TMC products and services are compliant with the joint technical architecture. In addition, this project funds the development of a collaborative Mission Command (MC) environment for ABCS to operate more efficiently and effectively. The MC environment will serve as a common foundation for functionality development and support by converging onto a common architecture and infrastructure. MC Convergence/ Common Operating Environment (COE) development and integration will significantly enhance the ability of commanders and staff to effectively conduct collaborative mission planning and execution across a range of operations and spectrum of conflict.

PE 0203740A: Maneuver Control System

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army

Date: March 2014

Appropriation/Budget Activity

2040: Research, Development, Test & Evaluation, Army I BA 7: Operational

Systems Development

R-1 Program Element (Number/Name)
PE 0203740A I Maneuver Control System

3. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	68.325	36.495	44.760	-	44.760
Current President's Budget	60.948	36.475	45.092	-	45.092
Total Adjustments	-7.377	-0.020	0.332	-	0.332
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-7.377	-0.020	0.332	-	0.332

PE 0203740A: *Maneuver Control System* Army

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Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 A	rmy							Date: Marc	ch 2014	
Appropriation/Budget Activity 2040 / 7					_	am Elemen 40A <i>I Maneเ</i>	•	•	Project (Number/Name) 484 I Maneuver Control System			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
484: Maneuver Control System	-	60.948	36.475	45.092	-	45.092	66.754	22.022	21.006	15.130	Continuing	Continuing
Quantity of RDT&E Articles	antity of RDT&E Articles -					_	-	-	-	-		

^{*} The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Tactical Mission Command (TMC) is a suite of products and services that provide commanders and their staff executive decision making capability in a collaborative environment, planning tools, and Common Operational Picture (COP) management and other maneuver functional tools. TMC satisfies requirements and capabilities identified in the Maneuver Control System (MCS) Good Enough Operational Requirements Document (ORD) and MCS 6.4 Capability Production Document (CPD) which includes Army migration to Department of Defense (DoD) net-centric environment. The overarching capability includes a user-defined COP with integrated Command and Control (C2) and Situational Awareness (SA), map-centric collaboration, Army Mission Command System and other enabling system interoperability, data management, and enterprise services. The suite of products include Command Post of the Future (CPOF), Command Web, Battle Command Common Services (BCCS), and Command Post Client (CPC), that provides server consolidation and services infrastructure for systems supporting Army Mission Command from Battalion to Army Component Command, Battalion and Above, Joint Convergence with the Marine Corps, and Tactical Web Portal for Knowledge management. TMC products and services are compliant with the joint technical architecture. In addition, this project funds the development of a collaborative Mission Command (MC) environment to operate more efficiently and effectively. The MC environment will serve as a common foundation for functionality development and support by converging onto a common architecture and infrastructure. MC Convergence/ Common Operating Environment (COE) development and integration will significantly enhance the ability of commanders and staff to effectively conduct collaborative mission planning and execution across a range of operations and spectrum of conflict.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Command Post Client (CPC) - Command Post Computing Environment (CP CE) Infrastructure Development & Integration and Test	-	-	26.304
Description: Command Post Computing Environment (CP CE) is the computing environments to organizationally manage, control and implement COE across the force. Included is an Operational test for COE V2.			
FY 2015 Plans: Command Post Client (CPC) - Command Post Computing Environment (CP CE) Infrastructure Development & Integration and Test			
Title: Battle Command Common Services Development	7.919	7.255	8.736
Articles:	-	-	-
Description: Battle Command Common Services Development			
FY 2013 Accomplishments:			

PE 0203740A: Maneuver Control System

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army			Date: M	arch 2014	
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203740A I Maneuver Control System		t (Number/N laneuver Co	lame) ntrol System	
B. Accomplishments/Planned Programs (\$ in Millions, Article C	Quantities in Each)		FY 2013	FY 2014	FY 2015
Battle Command Common Services Development					
FY 2014 Plans: Battle Command Common Services Development					
FY 2015 Plans: Battle Command Common Services Development					
Title: Mission Command Convergence	Ar	ticles:	27.678 -	7.814 -	10.052
Description: Mission Command Convergence Development and In	ntegration				
FY 2013 Accomplishments: Mission Command Convergence Development and Integration					
FY 2014 Plans: Mission Command Convergence Development and Integration					
FY 2015 Plans: Mission Command Convergence - Software Development and Integration	gration for BCS3 and Common Software (CS)				
Title: CPOF Development	Ar	ticles:	21.409	20.397	-
Description: CPOF Development					
FY 2013 Accomplishments: CPOF Development					
FY 2014 Plans: CPOF Development					
Title: Command Web Development	Ar	ticles:		1.009	-
Description: Command Web Development					
FY 2014 Plans: Command Web Development					
Title: Joint Convergence Engineering and Development	Ar	ticles:	3.942		-

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: I	March 2014	
Appropriation/Budget Activity 2040 / 7	, ,	Project (Number/ 84 <i>I Maneuver Co</i>	,	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantit	es in Each)	FY 2013	FY 2014	FY 2015
Description: Joint Convergence Engineering and Development				
FY 2013 Accomplishments:				
Joint Convergence Engineering and Development				
	Accomplishments/Planned Programs Subto	tals 60.948	36.475	45.092

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

			FY 2015	FY 2015	FY 2015					Cost To	
Line Item	FY 2013	FY 2014	<u>Base</u>	OCO	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Cost
 Funding: BA9320 Maneuver 	54.361	18.179	95.455	-	95.455	109.681	173.965	85.269	108.967	Continuing	Continuing
Control System (MCS)											
 SPARES: BS9710 MCS 	1.669	0.655	0.637	-	0.637	0.631	0.604	4.950	4.955	Continuing	Continuing
Spares Procurement											

Remarks

D. Acquisition Strategy

In accordance with the Training and Doctrine Command (TRADOC) requirements document approved in 2008, entitled Mission Command Essential Capability, software capability will be developed in 2-year increments as capability sets designed to deploy specified Mission Command Essential Capabilities to operating force commanders and their integrated battle staffs.

This strategy accounts for subsequent Army directives for Mission Command (MC) convergence and migration to the Army Common Operating Environment (COE); designed to optimize opportunities for improved interoperability among the Army Mission Command systems and applications, to capture the benefits of competition where possible, to reduce application and system redundancy, to ensure the rapid integration of new capability into warfighter systems, to increase operational efficiency, reduce the physical footprint, and reduce logistics support and training requirements. The products developed under this funding line is an integral part of the Army Mission Command System of Systems.

E. Performance Metrics

N/A

Army

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army

Appropriation/Budget Activity
2040 / 7

R-1 Program Element (Number/Name)
PE 0203740A / Maneuver Control System

Project (Number/Name)
484 / Maneuver Control System

Management Service	es (\$ in M	illions)		FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Program Office Mgmt	Various	PM Mission Command : Aberdeen Proving Grounds, MD	11.870	1.888	Jan 2013	1.922	Jan 2014	2.112	Jan 2015	-		2.112	Continuing	Continuing	Continuing
	Subtotal 11.87			1.888		1.922		2.112		-		2.112	-	-	-

Product Developmen	roduct Development (\$ in Millions)			FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Misc Contracts	Various	Various : Various	24.931	-		-		-		-		-	Continuing	Continuing	Continuing
ABCS SoS Contract (Joint Convergence Development)	Various	Lockheed Martin : Tinton Falls, NJ	3.487	2.917	Jul 2013	-		-		-		-	Continuing	Continuing	Continuing
Technical Support	Various	PM Mission Command/SEC : Various	26.011	0.309	Nov 2012	0.931	Nov 2013	-		-		-	Continuing	Continuing	Continuing
CPOF Development	Various	General Dynamics : Scottsdale, AZ	97.568	20.428	Feb 2013	20.397	Feb 2014	-		-		-	Continuing	Continuing	Continuing
ABCS SoS Contract (Joint Convergence Development) Follow-on	Various	General Dynamics : Scottsdale, AZ	0.000	1.025	Jul 2013	-		-		-		-	Continuing	Continuing	-
Command Web Development	Various	CECOM SEC : APG, MD	0.000	-		1.009	Nov 2013	-		-		-	-	1.009	-
Mission Command Convergence Development & Integration	Various	Various : Various	15.020	27.678	Mar 2013	-		-		-		-	Continuing	Continuing	Continuing
Mission Command Convergence - CP CE Software Development & Integration (BCS3)	Various	Future Skies : APG, MD	0.000	-		2.011	Apr 2014	1.654	Apr 2015	-		1.654	Continuing	Continuing	-
Mission Command Convergence - CP CE Software Development	Various	IBM : Bethesda, MD	0.000	-		3.462	Jan 2014	8.399	Jan 2015	-		8.399	-	11.861	-

PE 0203740A: *Maneuver Control System* Army

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Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2015 Army	/								Date:	March 20)14	
Appropriation/Budge 2040 / 7	t Activity	1							umber/Na Control S		Project (Number/Name) 484 I Maneuver Control System				
Product Developmer	nt (\$ in M	illions)		FY 2	2013	FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
& Integration (Common Software)															
Mission Command Convergence Development & Integration (TAIS)	Various	CECOM SEC : APG, MD	0.000	-		2.103	Feb 2014	-		-		-	-	2.103	-
Software Development & Technical Support	Various	CECOM Software Engineering Center : APG, MD	53.214	5.441	Nov 2012	2.321	Nov 2013	8.736	Nov 2014	-		8.736	Continuing	Continuing	Continuing
PAL Integration	IA	SRI : AZ	11.000	-		-		-		-		-	Continuing	Continuing	-
Command Post Client (CPC) CP CE SoftwareDevelopment	TBD	TBD : TBD	0.000	-		-		9.925	Jan 2015	-		9.925	-	9.925	-
		Subtotal	231.231	57.798		32.234		28.714		-		28.714	-	-	-
Support (\$ in Millions	s)			FY 2	2013	FY 2	2014		2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Misc Engineering Support	Various	PM Mission Command/SEC : Aberdeen Proving Ground, MD	8.472	0.463	Feb 2013	0.255	Feb 2014	1.150	Feb 2015	-		1.150	Continuing	Continuing	Continuing
Misc Contracts	Various	Various : Various	5.235	0.304	Feb 2013	0.204	Feb 2014	-		-		-	Continuing	Continuing	Continuing
		Subtotal	13.707	0.767		0.459		1.150		-		1.150	-	-	-
Test and Evaluation	(\$ in Milli	ons)		FY 2	2013	FY 2	2014		2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
OGA	Various	Various : APG, MD	6.017	0.240	Dec 2012	0.370	Dec 2013	1.166	Dec 2014	-		1.166	Continuing	Continuing	Continuing
Misc Contracts	TBD	VARIOUS : APG, MD	7.093	0.255	Dec 2012	0.430	Dec 2013	1.100	Dec 2014	-		1.100	-	8.878	-

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2015 Army	,							-	Date:	March 20)14	
Appropriation/Budg 2040 / 7	et Activity	1			o gram Ele 3740A / <i>N</i>		(Numbe		/stem						
Test and Evaluation	est and Evaluation (\$ in Millions) FY 2013								FY 2015 FY 20 ⁻ Base OCC						
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Test Planning/Conduct	Various	Various : APG, MD	24.894	-		1.060	Mar 2014	10.850	Jan 2015	-		10.850	Continuing	Continuing	Continuing
		Subtotal	38.004	0.495		1.860		13.116		-		13.116	-	-	-
			Prior Years	FY 2	2013	FY 2	2014		2015 ise		2015 CO	FY 2015 Total	Cost To	Total Cost	Target Value of Contract
	Project Cost Totals 294.812 60.948							36.475 45.092 -						-	-

Remarks

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xhibit R-4, RDT&E Schedule Profile: PB 2015 A	rmy																					Dat	e: M	larch	1 20°	14	
Appropriation/Budget Activity 2040 / 7			, , , , , , , , , , , , , , , , , , , ,									•	(Number/Name) neuver Control System														
		FY 2013				FY	4 FY 2015				FY 2016			FY 2017		7	FY 2018			В	FY 2019						
	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
Mission Command COE 1.0 Development Test and Integration																											
Mission Command CPCE 2.0 Development, Test and Integration																											
Mission Command CPCE 3.0 Development, Test and Integration																											
Mission Command CPCE 4.0 Development, Test and Integration																											
Integration Testing/Interop Certification and NIE OA of TMC Suite (BCCS/CP CE)																											
Integration Testing/Interop Certification and NIE OA of TMC Suite (CPOF)																											
Evolving Software Upgrades (e.g., joint interoperability, COE compliance, etc.)																											
Fielding																											

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 7	PE 0203740A I Maneuver Control System	484 I Mane	euver Control System

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
Mission Command COE 1.0 Development Test and Integration	1	2011	4	2014
Mission Command CPCE 2.0 Development, Test and Integration	1	2014	4	2016
Mission Command CPCE 3.0 Development, Test and Integration	1	2016	4	2018
Mission Command CPCE 4.0 Development, Test and Integration	1	2018	4	2020
Integration Testing/Interop Certification and NIE OA of TMC Suite (BCCS/CP CE)	3	2004	4	2020
Integration Testing/Interop Certification and NIE OA of TMC Suite (CPOF)	3	2004	2	2015
Evolving Software Upgrades (e.g., joint interoperability, COE compliance, etc.)	4	2004	4	2020
Fielding	2	2004	4	2020