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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 0203726A I Adv Field Artillery Tactical Data 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
Total Program Element	-	26.216	25.507	22.374	-	22.374	41.034	31.420	29.512	33.637	Continuing	Continuing
322: Adv Field Artillery Tactical Data System(AFA)	-	22.851	18.947	-	-	-	-	-	-	-	-	41.798
DU5: AFATDS Increment II	-	-	-	22.374	-	22.374	41.034	31.420	29.512	33.637	-	157.977
F19: JADOCS	-	3.365	6.560	-	-	-	-	-	-	-	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

AFATDS Increment 2 is the automated Command and Control (C2) system (0203728A) for the ground Fires Warfighting Function. AFATDS Increment 2 will permit the management and targeting analysis of the collective and coordinated target acquisition data, effective selection of munitions-target pairing from indirect fire weapons (land and sea based), as well as fixed and rotary wing aircraft against targets located throughout an area of operations. AFATDS Increment 2 will develop a new software architecture by providing three distinct applications to support role-based functionality: Fire Support, Fire Control, and Fire Direction. It leverages the Common Operating Environment (COE) and Command Post Computing Environment (CP CE) products and capabilities. AFATDS Increment 2 provides a less complicated AFATDS software package to the Warfighter and is fully compliant with the Joint Command and Control Common User Interface (JC2 CUI) architectures.

Project DU5 funds development of AFATDS Increment 2. Decomposition of the baseline software (AFATDS version 6.8.1) will be required prior to development of the code for AFATDS Increment 2 (version 7.0). A software development contract will be awarded to develop the Fires Common Core, the foundation upon which the three functional applications will operate. Contracting actions will be completed in FY2015 to award multiple software development contracts for the primary functions of the software: Fire Control; Fire Direction; and Fire Support. A contract for software integration may also be necessary, subject to the completion of the analysis for the development of the contracting strategy. The Fires Common Core software development activity will begin in FY2015, in order to allow developers of the other three applications to subsequently initiate their development.

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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 Systems Development		PE 0203726A I Adv Field Artillery Tactical Data System			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	32.556	30.940	35.314	-	35.314
Current President's Budget	26.216	25.507	22.374	-	22.374
Total Adjustments	-6.340	-5.433	-12.940	-	-12.940
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-6.340	-5.433	-12.940	-	-12.940

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System				Project (Number/Name) 322 / Adv Field Artillery Tactical Data System(AFA)			
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
322: Adv Field Artillery Tactical Data System(AFA)	-	22.851	18.947	-	-	-	-	-	-	-	-	41.798
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note
Project code 322 funding was transferred to program element 0203728A project code EF8 due to OSD Major Automated Information System (MAIS) transparency requirements.

A. Mission Description and Budget Item Justification
There are two developmental efforts that are being executed concurrently on this budget item. They are Advanced Field Artillery Tactical Data System Increment 1 (AFATDS Inc 1)203728A and Network Assisted Global Positioning System (GPS) for Precision Fires.

AFATDS Increment 1 provides Army, Navy, and Marine Corps automated fire support command, control and communications and functions as the land component's automated Fire Support Command and Control (FSC2) system. AFATDS is used in the Fires Warfighting Function to plan, execute, and deliver lethal and non-lethal fires within the overall Mission Command and Control (MC2) enterprise. The system interoperates and integrates with: over 80 different battlefield systems from Army, Marine Corps, Navy, and Air Force; and the German, French, Turkish, and Italian fire support command and control systems.AFATDS fuses the essential situational awareness data, intelligence information and targeting data, in near real time, in order to effectively manage target selection and target engagement in accordance with the Maneuver Commanders guidance and priorities and to safely execute against friendly situational picture. AFATDS pairs targets to weapons to provide optimum use of fire support assets and timely execution of fire missions. AFATDS automates the planning, coordinating, and controlling of all fire support assets (field artillery, mortars, close air support, naval gunfire, attack helicopters, offensive electronic warfare, fire support meteorological systems, forward observers, and fire support radars). AFATDS automatically implements detailed commander's guidance in the automation of operational planning, movement control, targeting, target value analysis, and fire support planning. AFATDS is being used in operations in Afghanistan. Project 322 funds development of AFATDS Version 6.8.1. AFATDS 6.8.1 fires capabilities are being enhanced to meet JADOCs ground fires requirements in order to remove JADOCs from the ground forces inventory. With the completion of AFATDS Version 6.8.1, the program office will complete the AFATDS Increment 1 development and will start the Increment 2 development in 4Q FY2014. Final engineering reviews will be conducted and Government Confidence Testing, Information Assurance testing, and Certification testing will be completed.

Network Assisted GPS for Precision Fires is a developmental effort to improve performance of GPS-guided munitions (0203728A). It requires pre-launch loading of target location and sufficient GPS satellite-related data at the weapon platform level to enable flight path and delivery of precision capable fires. This hot start capability allows for rapid post-launch time-to-first-fix of GPS signal and maximum utilization of Precision Guided Munition (PGM) maneuver authority to ensure required target engagement performance. This is especially critical for short flight times and steer-early solutions such as mortar and cannon based PGMs. Local GPS Satellite visibility challenges due to vertical terrain/complex environment issues during normal combat operations can prohibit precision capable fires when using GPS Satellite

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Appropriation/Budget Activity 2040 / 7		R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System	Project (Number/Name) 322 / Adv Field Artillery Tactical Data System(AFA)		
data generated exclusively at the firing weapon platform (0203728A). A system-of-systems Network Assisted GPS capability will be developed, integrated, and validated to overcome local GPS Satellite masking problems through the sharing of sufficient timely required GPS Satellite data via Wide-Area Network (WAN) and Local-Area Network (LAN) based materiel solutions that effectively and efficiently leverage mature technologies and taxpayer investments of existing acquisition programs.					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
Title: Program Support Costs for AFATDS software development Articles: Description: Provide program support for AFATDS software development efforts for Versions 6.8 and 6.8.1. FY 2013 Accomplishments: Program support for AFATDS Increment 1 software development efforts FY 2014 Plans: Program support for AFATDS Increment 1 software development efforts			0.719	0.715	-
			-	-	-
Title: AFATDS software development efforts cost Articles: Description: Development of AFATDS Increment 1 requirements - including Version 6.8 and 6.8.1 FY 2013 Accomplishments: Complete development of AFATDS Version 6.8. Continued development of AFATDS 6.8.1. FY 2014 Plans: Continue development of AFATDS Version 6.8.1.			14.557	12.623	-
			-	-	-
Title: Network Assisted GPS for Precision Fires Articles: Description: Define system architecture and standardize tactical GPS Satellite data exchange solutions. Initiate WAN and LAN based system-of-systems Network Assisted GPS capability for PGMs. FY 2013 Accomplishments: Initiate development of Network Assisted GPS for Precision Fires. FY 2014 Plans: Continue development of Network Assisted GPS for Precision Fires.			5.000	3.000	-
			-	-	-
Title: Testing			2.575	2.609	-
Articles:			-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army							Date: March 2014				
Appropriation/Budget Activity 2040 / 7			R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System			Project (Number/Name) 322 / Adv Field Artillery Tactical Data System(AFA)					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2013	FY 2014	FY 2015		
Description: Conduct and support test activities for AFATDS development of Increment 1 requirements FY 2013 Accomplishments: Conduct and support test activities for AFATDS Increment 1 software. FY 2014 Plans: Conduct and support test activities for AFATDS Increment 1 software.											
Accomplishments/Planned Programs Subtotals							22.851	18.947	-		
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• B28620: MOD OF IN-SVC EQUIP, AFATDS	36.966	17.702	8.163	-	8.163	8.435	3.912	3.971	4.049	-	83.198
Remarks											
D. Acquisition Strategy											
AFATDS version 6.8 was fielded only to the International Security Assistance Force (ISAF) in June 2013. Program Manager (PM) will universally field AFATDS Version 6.8 in March 2014 to ensure compatibility with JADOCs Version 1.0.5.2. AFATDS Version 6.8.1 is under development. PM expects Full Materiel Release in 3Q FY2015. With the completion of AFATDS Version 6.8.1, AFATDS Increment 1 will have achieved Full Operational Capability (FOC).											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System						Project (Number/Name) 322 I Adv Field Artillery Tactical Data System(AFA)			
Management Services (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Program Management for Increment 1 Support	SS/BA	PM Mission Command (MC) : APG, MD	17.099	0.629	Dec 2012	0.560		-		-		-	-	18.288	18.838
Subtotal			17.099	0.629		0.560		-		-		-	-	18.288	18.838
Product Development (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Software Development of AFATDS Increment 1 Requirements	SS/CPAF	Raytheon Systems Corp. : Ft. Wayne, IN	311.020	-		-		-		-		-	-	311.020	-
Software Development of AFATDS Version 6.8	SS/CPAF	Raytheon Systems Corp. : Ft. Wayne, IN	38.476	-		-		-		-		-	-	38.476	310.361
Software Development of AFATDS Version 6.8.1	C/CPFF	Raytheon Systems Corp. : Ft. Wayne, IN	8.614	14.557	Feb 2013	12.623		-		-		-	-	35.794	33.188
Network Assisted GPS for Precision Fires Development	C/CPFF	PM Combat Ammunition Systems (PM CAS), PM Mission Command, and various Army agencies : Various Locations	0.000	5.000	Mar 2013	3.000		-		-		-	-	8.000	-
Subtotal			358.110	19.557		15.623		-		-		-	-	393.290	343.549
Support (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Information Assurance and Engineering Support for AFATDS Increment 1 requirements	C/T&M	CSC : Eatontown, NJ	0.420	-		-		-		-		-	-	0.420	0.375

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Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System						Project (Number/Name) 322 / Adv Field Artillery Tactical Data System(AFA)			
Support (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Information Assurance and Engineering Support for AFATDS Increment 1 requirements	C/CPFF	CSC : Aberdeen, MD	0.000	0.090	Nov 2013	0.155		-		-		-	-	0.245	0.405
Subtotal			0.420	0.090		0.155		-		-		-	-	0.665	0.780
Test and Evaluation (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Test Support for AFATDS Increment 1 requirements	C/T&M	Titan and various contractors : Various Locations	4.163	-		-		-		-		-	-	4.163	5.055
Test Support for AFATDS Increment 1 requirements	C/CPFF	Engility and various : Various Locations	0.730	1.375	May 2013	0.825		-		-		-	-	2.930	5.030
Limited User Test/ Government Confidence Demo for AFATDS Increment I requirements	SS/BA	Army Test & Evaluation Command (ATEC)/Fires Test Directorate (FTD) : Various Locations	14.277	1.200	Jan 2013	1.784		-		-		-	-	17.261	17.232
Subtotal			19.170	2.575		2.609		-		-		-	-	24.354	27.317
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			394.799	22.851		18.947		-		-		-	-	436.597	390.484
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army										Date: March 2014			
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System					Project (Number/Name) 322 / Adv Field Artillery Tactical Data System(AFA)			

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				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	4
Development and Testing V6.8																												
Materiel Release V6.8 (ISAF only)																												
Fielding Release V6.8 (ISAF only)																												
Fielding V6.8 (Universal)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System	Project (Number/Name) 322 / Adv Field Artillery Tactical Data System(AFA)	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development and Testing V6.8	1	2011	1	2013
Materiel Release V6.8 (ISAF only)	3	2013	3	2013
Fielding Release V6.8 (ISAF only)	3	2013	3	2013
Fielding V6.8 (Universal)	2	2014	3	2014

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System				Project (Number/Name) DU5 / AFATDS Increment II			
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
DU5: AFATDS Increment II	-	-	-	22.374	-	22.374	41.034	31.420	29.512	33.637	-	157.977
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
AFATDS Increment 2 is the automated Command and Control (C2) system for the ground Fires Warfighting Function. AFATDS Increment 2 will permit the management and targeting analysis of the collective and coordinated target acquisition data, effective selection of munitions-target pairing from indirect fire weapons (land and sea based), as well as fixed and rotary wing aircraft against targets located throughout an area of operations. AFATDS Increment 2 will develop a new software architecture by providing three distinct applications to support role-based functionality: Fire Support, Fire Control, and Fire Direction. It leverages the Common Operating Environment (COE) and Command Post Computing Environment (CP CE) products and capabilities. AFATDS Increment 2 provides a less complicated AFATDS software package to the Warfighter and is fully compliant with the Joint Command and Control Common User Interface (JC2 CUI) architectures.												
AFATDS Increment 2 will provide three distinct applications–Fire Support, Fire Control, and Fire Direction–that communicate with other systems via the Army's Lower Tactical Internet and Warfighter Information Network Tactical (WIN-T) communications network. AFATDS Increment 2 will leverage the Command Post Computing Environment's common core database and core system functions/management that resides on the battle command server. Using the web-based tools, the Brigade Combat Team (BCT) commander and his Fires staff can access other command centers via search wizards over WIN-T and internet gateways to the Global Information Grid (GIG). AFATDS Increment 2 will meet the operational need to provide Fires data to a central database repository within the BCT. That repository will be accessible using web services or web-enabled search wizards to locate information within a BCT, adjacent BCTs or higher headquarters, thus supporting unified battle command. AFATDS Increment 2 will be used to actively plan offensive operations and exploit electronic attack weapon systems through the use of planning tools for lethal and non-lethal effects and the status and readiness of the systems that can best support the commander's intent. AFATDS Increment 2 will provide the supported maneuver commander the capability to plan, coordinate, rehearse, and execute integrated networked fires. Networked fires include lethal and non-lethal platforms. Net-centricity will enable the BCT commander to view targets that adjacent BCTs have encountered or engaged in their area of operations. This capability enables the commander to: exploit under-tasked air support assets; view/task weapons platforms based on coordinated command-supported relationships; and search target data files and repositories for enemy patterns that can be used in targeting and planning.												
Project DU5 funds development of AFATDS Increment 2. Initial AFATDS Inc 2 (version 7.0) development entails decomposing the AFATDS Increment 1 (v6.8.1) baseline.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: Program Support Costs for AFATDS software development									-	-	2.223	
Description: Provide program support for AFATDS software development efforts for Version 7.0												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014	
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System	Project (Number/Name) DU5 / AFATDS Increment II	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014
FY 2015 Plans: Provide program support for AFATDS software development efforts for Version 7.0			
Title: Software Development and Engineering Description: Remaining funding in excess of current FY acquisition plan for AFATDS Increment 2.		-	-
FY 2015 Plans: Software Development (excess)			20.151
Accomplishments/Planned Programs Subtotals		-	22.374
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy AFATDS Increment 2 development supports the use of Interim DoDI 5000.02 (November 2013) systems acquisition instruction for Information Technology (IT) acquisition programs (using the IT Box requirements construct). AFATDS Increment 2 capabilities will be developed over three distinct software versions - Versions 7.0, 7.1 and 7.2. AFATDS v7.0 will modernize and re-architect the AFATDS software to align with the requirements of the Inc 2 CDD. The Joint Requirements Oversight Council (JROC) issued a memorandum in June 2011 approving the Capability Development Document (CDD) for AFATDS Increment 2. The JROC validated the Key Performance Parameters, assigned oversight authority to the Fires Center of Excellences Fire Support Command and Control Tactical Software Governance Board, and set a funding ceiling.			
E. Performance Metrics N/A			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System				Project (Number/Name) DU5 / AFATDS Increment II							
Management Services (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Program Management for Increment 2 Support	SS/BA	PM Mission Command (MC) : APG, MD	0.000	-		-		2.223		-		2.223	Continuing	Continuing	Continuing
Subtotal			0.000	-		-		2.223		-		2.223	-	-	-
Product Development (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Software Development and Engineering	SS/TBD	N/A : N/A	0.000	-		-		20.151		-		20.151	-	20.151	-
Subtotal			0.000	-		-		20.151		-		20.151	-	20.151	-
Remarks															
Require \$2.233M for program management support on AFATDS Increment 2 acquisition efforts. \$20.15M identified as excess (in Software Development and Engineering)															
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		-		22.374		-		22.374	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army										Date: March 2014			
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System					Project (Number/Name) DU5 / AFATDS Increment II			

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				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	4
Materiel Development Decision (MDD)																												
Risk Reduction & Solution Refinement for Increment 2																												
Build Decision (Milestone B)																												
Implementation & Deployment for V.7.0																												
Partial Deployment Decision (PDD) for V.7.0																												
Initial operational capability (IOC) for V.7.0																												
Full Deployment Decision (FDD) for V.7.0																												
Fielding V.7.0																												
Full Operational Capability for V.7.0																												
Implementation & Deployment for V.7.1																												
Partial Deployment Decision (PDD) for V.7.1																												
Full Deployment Decision (FDD) for V.7.1																												
Implementation & Deployment for V.7.2																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System	Project (Number/Name) DU5 / AFATDS Increment II	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Materiel Development Decision (MDD)	2	2014	2	2014
Risk Reduction & Solution Refinement for Increment 2	1	2014	2	2015
Build Decision (Milestone B)	3	2015	3	2015
Implementation & Deployment for V.7.0	3	2014	3	2018
Partial Deployment Decision (PDD) for V.7.0	4	2017	4	2017
Initial operational capability (IOC) for V.7.0	1	2018	1	2018
Full Deployment Decision (FDD) for V.7.0	3	2018	3	2018
Fielding V.7.0	3	2018	4	2018
Full Operational Capability for V.7.0	4	2018	4	2018
Implementation & Deployment for V.7.1	4	2017	4	2019
Partial Deployment Decision (PDD) for V.7.1	2	2019	2	2019
Full Deployment Decision (FDD) for V.7.1	4	2019	4	2019
Implementation & Deployment for V.7.2	4	2018	4	2020

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Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System				Project (Number/Name) F19 / JADOCS			
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
F19: JADOCS	-	3.365	6.560	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
Project code F19 funding was transferred to program element 0203728A project code EF6 due to OSD Major Automated Information System (MAIS) transparency requirements.												
A. Mission Description and Budget Item Justification												
Joint Automated Deep Operations Coordination System (JADOCS) software provides joint fire support management, and common operational picture (COP) capabilities. JADOCS complements the Mission Command architecture with joint and collaborative capabilities that can be employed and tailored based on the unit mission and operational situation. JADOCS software provides integration between multiple joint command and control (C2) systems of the uniformed services involved in the targeting process at US Air Force (USAF), US Navy (USN), and US Marine Corps (USMC) Air Operations Centers (AOCs), Marine Expeditionary Forces (MEFs), Fleet Maritime Operations Centers (MOCs), and staff sections at the regional Combatant Commands (COCOMs), Special Operations Command (SOCOM), and Army Battlefield Coordination Detachments (BCDs), Army Service Component Commands (ASCC), Corps and Divisions.												
Project F19 funds cability maintenance for v1.0.5.2 and begins development of JADOCS Version 2.0 which is the final version of JADOCS to be developed with new functionality. JADOCS V2.0 is required to incorporate critical Joint requirements into JADOCS. These requirements include modification and updates for joint interfaces, updates to databases, and creation of non kinetic fires targeting. JADOCS V2.0 development is slated to be performed by a government developer with work beginning in FY2014.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: JADOCS Software Development Efforts costs.									0.865	4.300	-	
									Articles: -	-	-	
Description: Complete capability maintenance of version 1.0.5.2. Initiate development of JADOCS Increment 1 (JADOCS Version 2.0 software).												
FY 2013 Accomplishments: Continue the capability maintenance of JADOCS 1.0.5.2 software. Implement the Software Technical Implementation Guide (STIG) Category 1 fixes; provide JAVA 7 updates; using an Engineering Build of the JADOCS 1.0.5.2 software, conduct testing with GCCS-J 4.3 and partial pull of the MIDB at Eglin AFB.												
FY 2014 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014		
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System	Project (Number/Name) F19 / JADOCS		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Complete capability maintenance and testing of version 1.0.5.2. Implement KJCCS fixes requested from Korea; add CENTRIX data tagging; ensure AGM 10 and IAVA patches are done throughout the development process. Enter into a Memorandum of Agreement (MOA) with an existing government agency for the software development effort; Initiate development of JADOCS Increment 1 (JADOCS Version 2.0 software).				
Title: Program Support Costs for JADOCS Software Development Efforts Articles: Description: Program support for JADOCS software development efforts for version 1.0.5.2, 1.0.5.2.1 and JADOCS software version 2.0. FY 2013 Accomplishments: Continues the program support for JADOCS software version 1.0.5.2 development efforts. FY 2014 Plans: Continues the program support for JADOCS software version 1.0.5.2 development efforts plus the JADOCS version 2.0 software development efforts, scheduled to start at the end of 2QFY14.		0.300 -	0.260 -	- -
Title: Testing Articles: Description: Conduct and Support Army and Joint Testing Activities. FY 2013 Accomplishments: Continued support of Army and Joint testing activities. FY 2014 Plans: Continued support of Army and Joint testing activities for JADOCS 1.0.5.2 software; conduct Independent Validation and Verification (IV&V) of the JADOCS version 2.0 software.		0.200 -	0.300 -	- -
Title: Contractor Management Services and Support. Articles: Description: Funds Systems Engineering and Technical Assistance support provided by Liaison Officers and JADOCS training managers. FY 2013 Accomplishments: Continues program support for JADOCS training activities. FY 2014 Plans:		2.000 -	1.700 -	- -

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014	
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System	Project (Number/Name) F19 / JADOCS	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Continues program support for JADOCS training activities.			
Accomplishments/Planned Programs Subtotals		3.365	6.560
			-
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
<p>Joint Automated Deep Operations Coordination System (JADOCS) began as a Defense Advanced Research Projects Agency technology demonstration, and has evolved through a series of Army-led Joint Advanced Concept Technology Demonstrations (ACTDs), culminating in a joint and combined deployed operational capability. The Vice Chief of Staff of the Army approved JADOCS for acquisition program status under the Capabilities Development for Rapid Transition (CDRT) process. The approved JADOCS Capability Production Document (CPD) dated 16 April 2012, documents the current JADOCS threshold capabilities that are in the field today. As the lead agency for managing JADOCS capabilities within the Department of Defense, the Fires Center of Excellence, tailored the JADOCS CPD to incorporate Field Artillery tasks not included in the currently fielded version (v 1.0.5.1) of the software. JADOCS retirement will occur when system capabilities are individually or collectively incorporated into Army, Service, or Joint programs or are no longer needed as determined by its multi-Service users.</p> <p>JADOCS Inc 1 is a software only development effort that will produce JADOCS v2.0 software, which will resolve technical requirements generated by the Joint Services that align with the CPD capabilities. JADOCS v2.0 will be the last major version of JADOCS software and will be the follow-on version to the development and fielding of the JADOCS 1.0.5.2 software versions. JADOCS v2.0 will be interoperable with AFATDS Increments 1 and 2.</p> <p>The current fielded version of JADOCS software is 1.0.5.1. The targeting and fires functionality of this version are being incorporated into the AFATDS v6.8.1 software baseline. The fielding of the AFATDS v6.8.1 software (planned for Fiscal Year (FY) 15) will represent the initial merge of the JADOCS/AFATDS capabilities. This software will be provided to users to evaluate AFATDS software's ability to adequately perform the functions provided by the JADOCS software. Any changes, improvements, or further enhancements identified by the Services will be made to the AFATDS software. The JADOCS Joint fires and targeting features will continue to be incorporated into the AFATDS software and will be provided to users with the initial fielding of AFATDS Inc 2, v7.0 software (planned to start in FY18 timeframe). JADOCS v2.0 software (planned for fielding in the 4QFY17 timeframe). Users will continue to use JADOCS v2.0 until AFATDS v7.0 meets the total Joint Users requirements (expected with the full fielding of AFATDS v7.0 in FY18).</p> <p>Program Executive Officer, Command, Control, Communications -Tactical (PEO C3T) signed the JADOCS Milestone C Acquisition Decision Memorandum (ADM) on 2 December 2013. The ADM approved MS C and authorized entrance into the Production and Deployment phase. The ADM also approved the acquisition strategy, APB and established the MS C exit criteria.</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System	Project (Number/Name) F19 / JADOCs
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System						Project (Number/Name) F19 / JADOCS			
Management Services (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Business/Technical Services	Various	Chenega Federal Systems : Various	3.254	2.000	Jan 2012	1.700	Mar 2014	-		-		-	-	6.954	-
Subtotal			3.254	2.000		1.700		-		-		-	-	6.954	-
Product Development (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Software Development & Test	C/CPFF	Oberon Associates INC. : Manassas, Virginia	13.032	0.865	Mar 2013	-		-		-		-	-	13.897	-
Software Development & Test	TBD	MOA with a Government : TBD	0.000	-		4.300		-		-		-	-	4.300	-
Subtotal			13.032	0.865		4.300		-		-		-	-	18.197	-
Support (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Program Management - Government	Various	PM Mission Command (MC) : APG, MD	0.755	0.300	Jan 2013	0.260		-		-		-	-	1.315	-
Subtotal			0.755	0.300		0.260		-		-		-	-	1.315	-
Test and Evaluation (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Army and Joint Test Support	Various	Joint Service Testing : Various	2.697	0.200	Dec 2012	0.300		-		-		-	-	3.197	-
Subtotal			2.697	0.200		0.300		-		-		-	-	3.197	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army										Date: March 2014							
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System					Project (Number/Name) F19 / JADOCs							
					Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals					19.738	3.365		6.560		-		-		-	-	29.663	-
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 7		R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System			Project (Number/Name) F19 / JADOCs

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				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	4
Software Capability Maintenance and Testing - V1.0.5.2 (CS 11-12)																												
Acquisition Decision Memorandum (ADM) signed by Army Acquisition Executive																												
Final Integration Test - V1.0.5.2 (CS 11-12)																												
MIDB Tech Testing - V1.0.5.2 (CS 11-12)																												
Government Confidence Demonstration (GCD) V1.0.5.2 (CS 11-12)																												
Army Interoperability Certification 11.9 - V1.0.5.2 (CS 11-12)																												
Milestone C																												
Materiel Release - V1.0.5.2 (CS 11-12)																												
Award - Memorandum of Agreement (MOA) for SW Development - V2.0																												
Fielding - V1.0.5.2 (CS 11-12)																												
Software Development and Testing - V2.0																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203726A / Adv Field Artillery Tactical Data System	Project (Number/Name) F19 / JADOCs	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Software Capability Maintenance and Testing - V1.0.5.2 (CS 11-12)	4	2012	2	2014
Acquisition Decision Memorandum (ADM) signed by Army Acquisition Executive	3	2013	3	2013
Final Integration Test - V1.0.5.2 (CS 11-12)	4	2013	1	2014
MIDB Tech Testing - V1.0.5.2 (CS 11-12)	4	2013	4	2013
Government Confidence Demonstration (GCD) V1.0.5.2 (CS 11-12)	4	2013	4	2013
Army Interoperability Certification 11.9 - V1.0.5.2 (CS 11-12)	1	2014	1	2014
Milestone C	1	2014	1	2014
Materiel Release - V1.0.5.2 (CS 11-12)	2	2014	2	2014
Award - Memorandum of Agreement (MOA) for SW Development - V2.0	2	2014	2	2014
Fielding - V1.0.5.2 (CS 11-12)	3	2014	3	2014
Software Development and Testing - V2.0	3	2014	4	2017