Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff

R-1 Program Element (Number/Name)

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4:

PE 0604828J I Joint FIRES Integration and Interoperability Team

Date: March 2014

Advanced Component Development & Prototypes (ACD&P)

Appropriation/Budget Activity

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	0.000	6.541	7.506	7.102	-	7.102	6.963	7.107	7.218	7.218	Continuing	Continuing
P857: Joint Deployable Analysis Team (JDAT)	0.000	6.541	7.506	7.102	-	7.102	6.963	7.107	7.218	7.218	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Deployable Analysis Team (JDAT) mission is to employ scientific methods to research, investigate, test, assess, and evaluate current and emergent Joint command and control (C2) information systems, and associated procedures. These activities measure capabilities and limitations, identify shortfalls and root cause, recommend and verify solutions, and validate joint capabilities. The resultant empirical outcomes influence Joint Capability development in areas such as: Policy, Joint Doctrine, Tactics, Techniques and Procedures (TTP), and integration and interoperability of capabilities. JDAT provides decision-quality data and cogent solutions to customers and stakeholders responsible for improving Joint C2 information systems integration and interoperability, informing acquisition decisions, and ensuring that Services and Agencies field integrated and interoperable systems.

The emphasis of JDAT efforts is the analysis of C2 information systems and supporting procedures to provide Services and Agencies findings and recommendations based on quantifiable data to improve Joint C2 integration and interoperability. Evaluations range from small, single-focus events to large, multi-event/venue exercises.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	7.364	7.506	7.109	-	7.109
Current President's Budget	6.541	7.506	7.102	-	7.102
Total Adjustments	-0.823	-	-0.007	-	-0.007
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
Program Change	-0.823	-	-0.007	-	-0.007

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: March 2014			
Appropriation/Budget Activity	R-1 Program Element (Number/Name)				
0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4:	,				
Advanced Component Development & Prototypes (ACD&P)					

Change Summary Explanation

Program Element 0604828J, Joint Fires Integration and Interoperability transferred from OUSD (AT&L) to the Joint Staff in FY 2013. FY 2013 was the first year this PE belonged to the Joint Staff.

Funding decreased from FY 2014 - FY 2015 to match TJS Directorates' mission priorities with planned topline budget reductions.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Joint Deployable Analysis Team (JDAT)	6.541	7.506	7.10
Description: JDAT conducts assessments in conjunction with Service and Combatant Command (CCMD) exercises, experiments, and test and evaluation events.			
The primary outputs and efficiencies of JDAT include:			
(1) Improvement in the Services' ability to employ Joint C2 information systems.			
(2) Recommendations for C2 system integration and interoperability.			
(3) Ability to define appropriate Joint context during system acquisition or development.			
(4) Updates/revisions to C2-related Chairman, Joint Chief Staff (CJCS) Instructions and Manuals.			
(5) Development of related Universal Joint Tasks (UJT) and Additional Task Detail (ATD).			
(6) Updates and revisions to doctrine, TTP, and Joint publications.			
(7) Development/refinement of analytical tools (i.e. Data Collection Architecture for Analytical Feedback (DCAAF), Track Event			
Reconstruction Application (TERA), and Joint Windows-based Warfare Assessment Model (JWinWAM)).			
(8) Recommended solutions integrated within the Joint Requirements Oversight Council (JROC) Joint Capabilities Integration and			
Development System (JCIDS). (0) Identification of specific Key Performance Persmeters (KPRs) and Key System Attributes (KSAs) for new systems that most			
(9) Identification of specific Key Performance Parameters (KPPs) and Key System Attributes (KSAs) for new systems that meet Joint warfighter operational requirements to ensure Services and Agencies field interdependent and interoperable systems.			
(10) Increased effectiveness/confidence in combat identification processes and reduction in fratricide.			
(11) Increased effectiveness and confidence in C2 information systems and associated procedures.			
(11) increased enectiveness and confidence in 62 information systems and associated procedures.			
FY 2013 Accomplishments:			
(1) Provided analytical support to a Military Utility Assessment of coalition and U.S. C2 information systems and procedures at			
Bold Quest 13. Provided instrumentation, data collection, data capture, real-time mission monitoring, and feedback to participants			
via daily debriefings. Benefits included improved ability to assess various participating coalition and U.S. systems, improved			
joint task execution, and effective Military Utility Assessment of U.S. C2 information systems, while greatly reducing the timeline			
required to provide fact-based recommendations.			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: N	larch 2014	
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604828J / Joint FIRES Integration and Interope	1		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
(2) Assisted Commander, Operational Test and Evaluation Force (COMOPTE Mode 5 Level 1 Joint Operational Test Approach (JOTA) analysis to validate in Developed data collection and analysis methodologies, designed and impleme analysis requisite to meet JOTA objectives. Determined any gaps or shortfall systems. Provided Service Operational Test Agencies and Program Manage	integration and interoperability of fielded systems. ented data collection architectures, and conducted s in integration and interoperability of Mode 5			
(3) Provided analytical support to assess technology integration and interoper Organization (JIAMDO) Joint Tactical Air Picture assessment event. Provided developed tools. Benefits included improvements in a Joint Common Operation	d data collection, analysis, and display using JDAT			
(4) Led analytical efforts for the DOT&E-directed and Joint Staff J6-supported 1, phase I, and II demonstrations. Developed assessment plans, provided de and synchronized activities of JS J6, JS J7, USA Threat Systems Manageme National Cyberspace Range, John Hopkins University/Applied Physics Labora provided observations and recommendations for improving the integration of quantifiable measurements of cyberspace detection and prevention tools, cyband the effectiveness of CCMD cyberspace response actions in operationally	emonstration leadership/exercise control, coordinated nt Office, DoD Test Resource Management Center's atory and USA Test and Evaluation Command, tools, processes, and environments allowing perspace effects on CCMD C4I mission capabilities,			
(5) Provided an objective, third-party assessment of the 4G LTE capability, kn Deployable (JOLTED) Tactical Cellular system (TACTICS) for USSOCOM (JC data collection, test control, and reporting.				
(6) Assessed the performance of the Personnel Recovery Single Card Solution for the Joint Personnel Recovery Agency, Joint Staff J3, which included test p				
(7) Provided C2 data collection and analytical support to the Joint Fires Support Change Implementation Group. Conducted Digitally Aided Close Air Support assessments to validate service compliance with requisite engineering chang for Tactics, Techniques, and Procedures in the areas of standardization and Cuniversal Joint Tasks.	(DACAS) coordinated implementation risk reduction e proposals. Benefits included recommendations			
(8) Chaired the Joint Close Air Support Executive Steering Committee (JCAS (DACAS) Engineering Change Implementation Group. Planned and executed change proposals and coordinated implementation across the DoD and partners	d testing and validation of DACAS engineering			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: N	larch 2014	
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)	rability Team	1		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
(9) Updated Joint Windows-based Warfare Assessment Model (JWinWAM), (DCAAF), and Multi-Interface Gateway (MIG) software development to suppogovernment agencies as directed.				
(10) Defined Universal Joint Task (UJT) Additional Task Detail (ATD) for tact refined ATD for TA 3.2.2 Conduct Close Air Support (CAS), and TA 3.2.1 Co				
(11) Provided subject matter expertise and tier 2 architecture products on de Support (CAS) Joint Mission Thread (JMT), and Joint Fires JMT.	velopment and assessment of the Joint Close Air			
FY 2014 Plans: (1) Continue providing analytical support to a demonstration of U.S./Coalition J6 Bold Quest 14. Provide instrumentation, data collection, data manageme participants via daily debriefings. Benefits will include improved ability to ass improved joint task execution, and an effective demonstration of U.S./Coalitic	nt, real-time mission monitoring, and feedback to sess various participating coalition and U.S. systems,			
(2) Provide analytical support to assess DoD, Inter-Agency, and Industry's co-capabilities across the Integrated Air and Missile Defense (IAMD) joint engage and Missile Defense Organization (JIAMDO) Black Dart 2014 demonstration feedback using JDAT developed tools. Benefits will include improvements to engagement of counter-unmanned aircraft systems.				
(3) Team with U.S. Army Test and Evaluation Command to conduct the Directinformation assurance (cyberspace) assessment for USNORTHCOM during information system data collection and analysis using JDAT developed tools actions using USA Threat Systems Management Office developed tools. Be center defensive cyberspace operations through improved situational awarer supporting the commander's decision cycle.				
(4) Team with USAF Operational Test and Evaluation Center to conduct DO (cyberspace) assessments for USSTRATCOM during Exercise Global Thunc collection and analysis using JDAT developed tools and correlate with red te Threat Systems Management Office developed tools. Benefits will include in	der 2014. Provide C2 information system data am network penetrations and actions using USA			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: N	1arch 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604828J / Joint FIRES Integration and Interoperability Team					
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015		
center defensive cyberspace operations through improved situational awaren supporting the commander's decision cycle.	ess and understanding the impact on procedures					
(5) Continue teaming with DOT&E for FY 2014 CCMD's interoperability assess and display using JDAT developed tools. Benefits will include improvements interoperability, processes, and procedures in support of the commander's definition of the commander of the comman	in U.S. and Coalition C2 information systems					
(6) Continue providing analytical support to the Joint Personnel Recovery Agroposals, identifying interoperability shortfalls, and recommending solutions. personnel recovery process.						
(7) Provide C2 information and weapon systems data collection and feedback initiative on leveraging real-world operations to identify current deficiencies at Missile Defense interoperability and effectiveness.						
(8) Continue providing C2 data collection and analytical support to the Joint F the Engineering Change Implementation Group. Conduct Digitally Aided Fire risk reduction assessments to validate service compliance with requisite Engineering and validation of ECPs and coordinate implementation across recommendations in the areas of interoperability, standardization, and developments.	es (DACAS and Fires) Coordinated Implementation ineering Change Proposals (ECPs). Plan and is the DoD and partner nations. Benefits will include					
(9) Continue to update JWinWAM, DCAAF, MIG, and TERA analysis softward the Joint Mission Essential Task List (JMETC) program.	e to support DOD-wide test and evaluation through					
(10) Continue to define UJT ATD for tactical task (TA) 3.3.2 Control Tactical A and TA 3.2.1 Conduct Joint Fires.	Airspace and refine ATD for TA 3.2.2 Conduct CAS					
(11) Continue to provide subject matter expertise and architecture products o JMT.	n development of the Joint CAS JMT and Joint Fires					
(12) Partner with JS J8, JS J7, and other agencies to address persistent integration	grated air and missile defense interoperability issues.					
FY 2015 Plans:						

<u> </u>	NOLAGOII ILD					
Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: N	larch 2014			
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604828J I Joint FIRES Integration and Interoperability Team					
C. Accomplishments/Planned Programs (\$ in Millions)	Γ	FY 2013	FY 2014	FY 2015		
(1) Continue providing analytical support to a demonstration of U.S./Coalition J6 Bold Quest 15. Provide instrumentation, data collection, data management participants via daily debriefings. Benefits will include improved ability to assimproved joint task execution, and an effective demonstration of U.S./Coalition	nt, real-time mission monitoring, and feedback to ess various participating coalition and U.S. systems,		-			
(2) Analytical support to assess DoD, Inter-Agency, and Industry's counter-ur the IAMD joint engagement sequence during JS J8 Joint Integrated Air and N 2015 demonstration. Provide data collection, analysis, display, and feedback improvements to surveillance, detection, tracking, identification, and engagen	Missile Defense Organization (JIAMDO) Black Dart using JDAT developed tools. Benefits will include					
(3) Team with USN Operational Test and Evaluation Force to conduct DOT&l for USPACOM during Exercise Terminal Fury 2015. Provide C2 information developed tools and correlate with red team network penetrations and actions developed tools. Benefits will include improvements in CCMDs joint cyber ce improved situational awareness and understanding the impact on procedures	system data collection and analysis using JDAT s using USA Threat Systems Management Office enter defensive cyberspace operations through					
(4) Continue teaming with DOT&E for FY 2015 CCMD's interoperability assess and display using JDAT developed tools. Benefits will include improvements interoperability, processes, and procedures in support of the commander's definition of the comm	in U.S. and Coalition C2 information systems					
(5) Continue providing analytical support to the Joint Personnel Recovery Agroposals, identifying interoperability shortfalls, and recommending solutions. personnel recovery process.						
(6) Continue providing C2 information and weapon systems data collection at the VCJCS initiative on leveraging real-world operations to identify current de Integrated Air and Missile Defense interoperability and effectiveness.						
(7) Continue providing C2 data collection and analytical support to the Joint F Change Implementation Group. Conduct Digitally Aided Fires (DACAS and F assessments to validate service compliance with requisite ECPs. Plan and e implementation across the DoD and partner nations. Benefits will include rec standardization, and development of associated Universal Joint Tasks and T	Fires) Coordinated Implementation risk reduction execute testing and validation of ECPs and coordinate commendations in the areas of interoperability,					

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)						
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Advanced Component Development & Prototypes (ACD&P)							

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
(8) Continue to update JWinWAM, DCAAF, MIG, and TERA analysis software to support DOD-wide test and evaluation through the JMETC program.			
(9) Continue to define UJT ATD for tactical task (TA) 3.3.2 Control Tactical Airspace and refine ATD for TA 3.2.2 Conduct CAS and TA 3.2.1 Conduct Joint Fires.			
(10) Continue to provide subject matter expertise and architecture products on development of the Joint CAS JMT and Joint Fires JMT.			
(11) Partner with JS J8, JS J7, and other agencies to address persistent integrated air and missile defense interoperability issues.			
Accomplishments/Planned Programs Subtotals	6.541	7.506	7.102

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

N/A

Remarks

E. Acquisition Strategy

Not applicable for this item.

F. Performance Metrics

JDAT delivers joint solutions for operational and tactical forces deployed to Combatant Commands (CCMDs) and Joint and Service Program managers. Deliverables may include: discrete improvements to training processes, doctrine; Tactics, Techniques, & Procedures (TTPs), and/or technical system performance specifications and standards, validated Doctrine, Organization, Training, Material, Leadership, Personnel, Facilities, and Policy (DOTmLPF-P) recommendations, timely delivery of quality feedback to exercise participants, and developers for systems under test or improvements to joint context of testing and training venues. JDAT works with Joint Staff, CCMDs, and Services to approve the annual agenda of work and validate results.

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2015 The	Joint Sta	ff							Date:	March 20)14	
Appropriation/Budget Activity 0400 / 4						PE 0604828J I Joint FIRES Integration and P				Project (Number/Name) P857 I Joint Deployable Analysis Team (JDAT)				eam	
Product Developme	ent (\$ in M	illions)		FY 2	2013	FY 2	014	FY 2 Ba			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
Evaluation Other Costs	MIPR	JDAT : Eglin AFB	-	0.725		0.530		0.535		-				Continuing	
		Subtotal	-	0.725		0.530		0.535		-		0.535	-	-	-
Support (\$ in Million	าร)			FY 2	2013	FY 2	014	FY 2 Ba			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
Operational Test and Evaluation	C/CPFF	SAIC, Miratek, NDGI : Eglin AFB	0.000	5.816		6.776		6.359		-		6.359	Continuing	Continuing	-
Travel	TBD	Various DoD : Various	-	-		0.200		0.208		-		0.208	Continuing	Continuing	-
		Subtotal	0.000	5.816		6.976		6.567		-		6.567	-	-	-
			Prior Years	FY 2	2013	FY 2	2014	FY 2 Ba			2015 CO	FY 2015 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	6.541		7.506		7.102		-		7.102	_	-	_

Remarks