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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army **Date:** May 2017

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604742A / Constructive Simulation Systems Development							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	22.609	17.887	18.562	-	18.562	16.792	13.572	9.628	7.903	Continuing	Continuing
361: <i>Intelligence Simulation Systems</i>	-	5.303	5.851	6.334	-	6.334	5.806	3.390	1.447	0.340	Continuing	Continuing
362: <i>Jnt Land Component Constructive Trng</i>	-	17.306	12.036	12.228	-	12.228	10.986	10.182	8.181	7.563	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element funds the development of constructive and wargame simulations used to realistically train commanders and their battle staffs on today's complex battlefield conditions.

Project 361 funds the development of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT) that provides Warfighting Commanders at all echelons the ability to train with Intelligence, Surveillance, and Reconnaissance (ISR) products based on realistic ISR assets, people (including the maneuver commander, G-2, G-3, collection manager, analyst/operator) and processes. IEWTPT provides a realistic Intelligence target environment for Multi-Intelligence disciplines. Signals Intelligence (SIGINT), Imagery Intelligence (IMINT), Human Intelligence (HUMINT), Counterintelligence (CI) and Geospatial Intelligence (GEOINT) must stimulate multiple systems such as: Prophet, Distributed Common Ground Station-Army (DCGS-A), Joint Surveillance Target Attack Radar System-Common Ground Station (JSTARS-CGS), Tactical Unmanned Aerial Vehicle (TUAV), Tactical Exploitation System/Distributed Tactical Exploitation System (TES/DTES). IEWTPT is the only Army Simulation System supporting ISR training from the Warfighter to the Military ISR Analyst/System Operator.

Project 362, Joint Land Component Constructive Training Capability (JLCCTC) supports Army Title X training worldwide for Army Commanders and their staff at Mission Training Complexes (MTCs), Training and Doctrine Command (TRADOC) facilities, and other customer locations. JLCCTC trains Commanders and their staff in Decisive Actions to include offensive, defensive, stability, and civil support operations. JLCCTC is a software modeling and simulation capability that contributes to Army Training Mission Area by providing appropriate levels of model and simulation resolution and fidelity to support unit collective and combined arms training. The JLCCTC provides a composable federation configurable to any combination of models and simulations, as required by training exercise intent/design. The JLCCTC provides accurate representations of tactically and operationally relevant land warfare operations executed in a contemporary Joint operating environment/context in support of Army Training and Readiness.

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army				Date: May 2017	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)		PE 0604742A / Constructive Simulation Systems Development			
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	23.364	17.887	18.505	-	18.505
Current President's Budget	22.609	17.887	18.562	-	18.562
Total Adjustments	-0.755	0.000	0.057	-	0.057
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.755	-			
• Adjustments to Budget Years	0.000	0.000	0.057	-	0.057

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army										Date: May 2017		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604742A / Constructive Simulation Systems Development				Project (Number/Name) 361 / Intelligence Simulation Systems			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
361: Intelligence Simulation Systems	-	5.303	5.851	6.334	-	6.334	5.806	3.390	1.447	0.340	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program element funds the development of constructive and wargame simulations used to realistically train commanders and their battle staffs on today's complex battlefield conditions. Project 361 funds the development of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT). IEWTPT is a Non-System Training Device (NTSD) which supports training intelligence soldiers by simulating and stimulating Military Intelligence (MI) organic or surrogate equipment. It enables sustainment of critical individual and collective tasks/skills and is the core of the United States Army Intelligence Center of Excellence (USAICoE) Military Intelligence (MI) holistic training strategy and includes both stand-alone and network enabled training capabilities. IEWTPT provides a realistic Intelligence target environment for Multi-Intelligence disciplines such as Signals Intelligence (SIGINT), Imagery Intelligence (IMINT), Human Intelligence (HUMINT), Counterintelligence (CI), Geospatial Intelligence (GEOINT) and must stimulate and emulate multiple Intelligence, Surveillance, Reconnaissance (ISR) platform systems such as: PROPHET, Distributed Common Ground Station-Army (DCGS-A), Joint Surveillance Target Attack Radar System-Common Ground Station (JSTARS-CGS), Tactical Unmanned Aerial Vehicle (TUAV), Tactical Exploitation System/Distributed Tactical Exploitation System (TES/DTES), and Aerial Intelligence assets such as Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS), Airborne Reconnaissance Low-Enhanced (ARL-E), and Guardrail Common Sensor (GRCS). IEWTPT provides static and dynamic training capabilities (interactive environment for individual, collective, and Live, Virtual, and Constructive integrated mission rehearsals/exercises utilizing a constructive simulation feed) in an integrated, playback, and stand-alone mode. IEWTPT is composed of three major components: Technical Control Cell (TCC), Target Signature Arrays (TSA) or Simulation Interface, and the HUMINT Control Cell (HCC). The IEWTPT TCC provides critical Intel enhancements to a constructive simulation to stimulate go-to-war or surrogate ISR systems where system operators/analysts are able to exploit exercise intelligence data during training, just as they would in a "real world" operation.

FY 2018 funding in the amount of \$6.334 million supports U.S. Army readiness by developing interface capabilities with Intelligence, Surveillance, Reconnaissance (ISR) platform programs/systems of record to train detailed military intelligence mission essential tasks in a simulation environment. FY 2018 funds provide the development of web-enabled capabilities and common operating environment/computing environment (COE/CE) migration for Command Post, Sensor, and Data Center for both the Human Control Cell (HCC) and Technical Control Cell (TCC).

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2016	FY 2017	FY 2018
Title: IEWTPT development, integration and support.	4.474	5.022	5.505
Description: Continue IEWTPT development, integration and support to the user community.			
FY 2016 Accomplishments:			

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army			Date: May 2017		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>		Project (Number/Name) 361 / <i>Intelligence Simulation Systems</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018
Supported V6.0 release for the development of detailed simulation interface capabilities for Intelligence, Surveillance, Reconnaissance (ISR) platform programs/systems in the PEO Intelligence Electronic Warfare & Sensors portfolio to support home-station intelligence training. The main effort developed capabilities in IEWTPT that support the training requirements for the DCGS-A program Processing, Exploitation and Dissemination (PED) mission. Developed HUMINT-Counter-intelligence and Human Intelligence Automated Reporting and Collection Systems (CHARCS) and Machine Foreign Language Translation, gesture recognition, retinal projection, and machine learning for integration into simulation /user environment. Additional FY 16 accomplishments included three key sensor simulation interface builds for aerial layer communications intelligence (COMINT) collection and geospatial intelligence (GEOINT) training. IEWTPT simulation provided the synthetic environment and models replicating behavior of the live receiver where operators respond and train exactly as they would in a live environment. Two Technical Control Cell (TCC) deliveries were completed in FY 16 to Ft Stewart, GA and Joint Base San Antonio, TX and the 470th Military Intelligence Brigade and Camp Bullis training requirements. Prophet 12B receiver SIGINT collection capabilities are complete with certification testing in 1st Quarter 2017 at Goodfellow Air Force Base, TX. Human Control Cell (HCC) initial web-based delivery capabilities are complete and testing is on-going for Army Training Network hosting.					
FY 2017 Plans: Will support V7.0 release for the development of detailed simulation interface capabilities for Intelligence, Surveillance, Reconnaissance (ISR) platform programs/systems in the PEO Intelligence Electronic Warfare & Sensors portfolio to support homestation intelligence training. The main effort will be to expand all source intelligence development in IEWTPT that support the training requirements for the DCGS-A program and their Processing, Exploitation and Dissemination (PED) mission. Expand HUMINT web-based implementation and Counter-intelligence and Human Intelligence Automated Reporting and Collection Systems (CHARCS) and Machine Foreign Language Translation, biometrics related intelligence for integration into the simulation /user environment. Initiate new PM Prophet 12C receiver SIGINT collection training capabilities for testing, certification and integration into software baseline. Develop and integrate new Aerial ISR communications intelligence sensor emulation capabilities into program baseline for the Enhanced Medium Altitude Reconnaissance Surveillance System (EMARSS). Will complete web-based delivery capability for the Human Control Cell (HCC) and begin prototype development for cloud capabilities to support Technical Control Cell (TCC) distributed training requirements. Will execute technology development and integration supporting product deliverables needed to meet Ft. Huachuca and Army G2 training strategy requirements. Develop linkages to migrate to designated Core Data Center/Common Operating Environment/Computing Environments.					
FY 2018 Plans: Will support V8.0 release for the development of detailed simulation interface capabilities for Intelligence, Surveillance, Reconnaissance (ISR) platform programs/systems in the PEO Intelligence Electronic Warfare & Sensors portfolio to support home-station intelligence training. The main effort will be to expand all source intelligence development in IEWTPT that support the training requirements for the all source analysis mission. Expand HUMINT, point of need, web-based training capabilities. Refine SIGINT capabilities and evolve sensor emulation effects modeling as well as electronic intelligence replication for the					

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Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604742A / Constructive Simulation Systems Development				Project (Number/Name) 361 / Intelligence Simulation Systems			
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2016	FY 2017	FY 2018
simulation /user environment. Develop and integrate new Aerial ISR communications intelligence sensor emulation capabilities such as dismounted moving target indicator (DMTI) and improved synthetic aperture radar into program baseline representing Enhanced Medium Altitude Reconnaissance Surveillance System (EMARSS) and Guardrail Common Sensor (GRCS) capabilities. Will execute technology development and integration supporting product deliverables needed to meet Ft. Huachuca and Army G2 training strategy requirements. Develop linkages to migrate to designated Core Data Center/Common Operating Environment/ Computing Environments.											
Title: Program Management for the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT).									0.829	0.829	0.829
Description: Government Program Management for the IEWTPT program.											
FY 2016 Accomplishments: Provided continuation of program oversight, lifecycle management planning, and Combat Developer support. Enabled the configuration control and oversight of interfaces with complementary programs. Allowed continuous participation in planning, integration, and testing of IEWTPT components in a federation (family of systems) environment. Covered technology insertion studies and reviews of deliverables needed to be ready for contract award for the program.											
FY 2017 Plans: Will provide for the continuation of program oversight, lifecycle management planning, and Combat Developer support. Will enable the configuration control and oversight of interfaces with complementary programs. Will allow continuous participation in planning, integration, and testing of IEWTPT components in a federation (family of systems) environment. Will cover technology insertion studies and reviews of deliverables needed to be ready for contract award for the program.											
FY 2018 Plans: Will provide for the continuation of program oversight, lifecycle management planning, and Combat Developer support. Will enable the configuration control and oversight of interfaces with complementary programs. Will allow continuous participation in planning, integration, and testing of IEWTPT components in a federation (family of systems) environment. Will cover technology insertion studies and reviews of deliverables needed to be ready for contract award for the program.											
Accomplishments/Planned Programs Subtotals									5.303	5.851	6.334
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• Appropriation NA0102:	3.797	5.377	6.693	-	6.693	5.491	5.585	2.611	-	Continuing	Continuing
Appropriation NA0102; Training Devices, Nonsystem, Intelligence											

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Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>				Project (Number/Name) 361 / <i>Intelligence Simulation Systems</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2018</u>	<u>FY 2018</u>	<u>FY 2018</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Complete</u>	<u>Total Cost</u>
• TBWG, OMA 121: TBWG, OMA 121	2.097	4.270	3.461	-	3.461	2.704	2.767	2.758	0.368	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
The FY18 funds will resource the first option to the new IEWTPT IDIQ contract awarded 16 Feb 2017 to General Dynamics. The FY 18 funds will provide continued version 8.0 development, testing, cyber security, production, integration, fielding, training, hardware/software updates, and exercise support of the IEWTPT system. Software version releases are planned, as well as engineering for product improvement maintenance releases.											
E. Performance Metrics											
N/A											

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604742A / Constructive Simulation Systems Development				Project (Number/Name) 362 / Jnt Land Component Constructive Trng			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
362: Jnt Land Component Constructive Trng	-	17.306	12.036	12.228	-	12.228	10.986	10.182	8.181	7.563	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Land Component Constructive Training Capability (JLCCTC) supports Army Title X training worldwide for Army Commanders and their staff at Mission Training Complexes (MTCs), Training and Doctrine Command (TRADOC) facilities, and other customer locations. JLCCTC trains Commanders and their staff in Decisive Actions to include offensive, defensive, stability, and civil support operations. JLCCTC is a software modeling and simulation capability that contributes to Army Training Mission Area by providing appropriate levels of modeling and simulation resolution and fidelity to support unit collective and combined arms training. JLCCTC provides a composable federation configurable to any combination of models and simulations, as required by training exercise intent/design. JLCCTC provides accurate representations of tactically and operationally relevant land warfare operations executed in a contemporary Joint operating environment/context and in support of Army Training and Readiness.

FY 2018 funding in the amount of \$12.228 million supports development, integration and test, and verification and validation activities of JLCCTC Version 8.1 and beginning Version 9.0 of the Constructive Simulation Strategy implementation activities to train Commanders and their Staff. This Constructive Simulation Strategy will merge software from two Federations (Multi-Resolution Federation used for Brigade/Division and above exercises and Entity Resolution Federation used for Brigade and below exercises) into a single Federation solution. JLCCTC will continue to support emerging Common Operating Environment / Computing Environment (COE/CE), Mission Command (MC), Information Assurance (IA), and Concurrency warfighter requirements. In addition, JLCCTC will continue to support the integration activities with Live, Virtual, Constructive-Integrated Architecture (LVC-IA) and Combat Training Center Instrumentation System (CTC-IS) to accomplish a Single Federation solution.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2016	FY 2017	FY 2018
Title: Improve JLCCTC software models to comply with emerging Common Operating Environment (COE)/Computing Environment (CE) requirements.	1.890	0.900	1.300
Description: Improve JLCCTC software models to comply with emerging COE/CE requirements.			
FY 2016 Accomplishments: Continued improvements of JLCCTC software models to maintain concurrency with Command Post (CP) system interfaces and initial analysis to assess impacts of emerging Cloud standards in support of COE compliance.			
FY 2017 Plans:			

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 362 / <i>Jnt Land Component Constructive Trng</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017
Will continue improvements of JLCCTC software development of architectural/system modifications to maintain concurrency/ compliance with Command Post system interfaces in support of COE compliance.			
FY 2018 Plans: Will continue improvements of JLCCTC software models to include common overlay development/modifications in support of COE compliance/standards.			
Title: Improve JLCCTC software models to meet emerging Mission Command (MC) stimulation and Information Assurance (IA) requirements. Description: Improve JLCCTC software models to meet emerging Mission Command (MC) stimulation and Information Assurance (IA) requirements. FY 2016 Accomplishments: Continued improvements of JLCCTC software models to support MC and IA requirements. FY 2017 Plans: Improve JLCCTC software models to support emerging Mission Command requirements and start compliance with the Information Assurance Risk Management Framework (RMF). FY 2018 Plans: Continue to evolve JLCCTC to support emerging Mission Command requirements and fully comply with the Information Assurance Risk Management Framework (RMF) requirement.		3.451	1.559
Title: Improve JLCCTC software models to meet emerging warfighter requirements for Concurrency of Commander and staff training (Battalion thru Theater Level). Description: Improve JLCCTC software models to meet emerging warfighter requirements for Concurrency of Commander and staff training (Battalion thru Theater Level). FY 2016 Accomplishments: Continued enhancing/improving JLCCTC software models to support Commander and staff training. FY 2017 Plans: Evolve JLCCTC software models to support emerging requirements in support of Commander and staff training exercises. FY 2018 Plans:		2.140	2.130
			1.892

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army			Date: May 2017		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604742A / Constructive Simulation Systems Development	Project (Number/Name) 362 / Jnt Land Component Constructive Trng		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018
Continue to evolve JLCCTC software models to support additional emerging requirements in support of Commander and staff warfighter training exercises through Theater level.					
Title: Technical Engineering Services/Support for JLCCTC Program Description: Technical Engineering Services/Support for JLCCTC Program FY 2016 Accomplishments: Continued Engineering and Support for the JLCCTC Program.			1.200	-	-
Title: Engineering and Manufacturing Development (EMD) phase contract activity for Constructive Strategy Implementation Description: Constructive Strategy Implementation FY 2016 Accomplishments: Begin Phase I execution of the Constructive Simulation Strategy (Single Federation Solution), version 8.0. FY 2017 Plans: Begin Phase II (Live, Virtual, Constructive-Integrated Architecture [LVC-IA]) integration in support of the Constructive Simulation Strategy (version 8.1). FY 2018 Plans: Complete the Live, Virtual, Constructive-Integrated Architecture (LVC-IA) integration and incorporate the Combat Training Center Instrumentation System (CTC-IS) capability in support of the Constructive Simulation Strategy (version 8.1 and beginning of version 9.0).			3.376	2.165	2.164
Title: Government System Test and Evaluation for the Joint Land Component Constructive Training Capability (JLCCTC) Program. Description: Government System Test and Evaluation for the Joint Land Component Constructive Training Capability (JLCCTC). FY 2016 Accomplishments: Developed and evaluated system performance and conducted system test events (Integration and Testing) in support of the JLCCTC v8.0 validation event. FY 2017 Plans: Developed and evaluated system performance and conducted system test events (Integration and Testing) in support of the JLCCTC v8.1 validation event. FY 2018 Plans:			1.150	1.317	1.372

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army									Date: May 2017		
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604742A / Constructive Simulation Systems Development				Project (Number/Name) 362 / Jnt Land Component Constructive Trng			
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2016	FY 2017	FY 2018
Begin development and integration by conducting system test events (Integration and Testing) in support of a future JLCCTC v9.0 validation event.											
Title: Government Program Management for the Joint Land Component Constructive Training Capability (JLCCTC) Program. Description: Supports Government program management, engineering, logistics, contracting support and continues operational evaluation support for JLCCTC. FY 2016 Accomplishments: Supported Government program management, engineering, logistics, contracting support and continued operational evaluation support for JLCCTC. FY 2017 Plans: Supports Government program management, engineering, logistics, contracting support and continues operational evaluation support for JLCCTC. FY 2018 Plans: Supports Government program management, engineering, logistics, contracting support and continues operational evaluation support for JLCCTC.									4.099	3.965	3.988
Accomplishments/Planned Programs Subtotals									17.306	12.036	12.228
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• NSTD Command & Control: OPA, NA0103	40.172	41.959	35.578	-	35.578	43.141	35.452	35.605	36.701	Continuing	Continuing
• TBWG: OMA, 121	10.400	10.668	10.830	-	10.830	11.063	11.220	11.354	11.552	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
JLCCTC Indefinite Delivery/Indefinite Quantity (ID/IQ) contract was awarded to Lockheed Martin on 27 March 2013. This contract has a period of performance/ordering period of five years with a total ceiling amount not to exceed \$146M. The plan is to award a two-year Delivery Order through 2nd Quarter FY 20. Re-compete activities will begin during FY 18 with a planned award of a new contract by 2nd Quarter FY 20.											
Activities under this contract include System Engineering, Software Development, Integration & Test, support to validation events and PDSS/P3I support.											

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		Date: May 2017
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 362 / <i>Jnt Land Component Constructive Trng</i>
JLCCTC produces a major software release/version every 12 to 24 months, which is then distributed/fielded to over 40 MTCs worldwide in support of Army Command and Staff Training.		
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Army												Date: May 2017			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>						Project (Number/Name) 362 / <i>Jnt Land Component Constructive Trng</i>			
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	Various	PEO STRI : Orlando, FL	55.063	4.099	Oct 2015	3.965	Oct 2016	3.988	Oct 2017	-		3.988	Continuing	Continuing	Continuing
Subtotal			55.063	4.099		3.965		3.988		-		3.988	-	-	-
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
Constructive Strategy Implementation	C/CPFF	Lockheed Martin : Orlando, FL	0.000	3.376	Mar 2016	2.165	Jan 2017	2.164	Oct 2017	-		2.164	Continuing	Continuing	Continuing
Integration of JLCCTC	SS/FFP	Various : Various	56.851	-		-		-		-		-	Continuing	Continuing	Continuing
Improve JLCCTC to meet emerging warfighter requirements.	C/CPFF	Lockheed Martin : Orlando, FL	0.000	2.140	Jan 2016	2.130	Jan 2017	1.892	Mar 2018	-		1.892	Continuing	Continuing	Continuing
MC Systems Stimulation and Information Assurance	C/CPFF	Lockheed Martin : Orlando, FL	0.000	3.451	Mar 2016	1.559	Dec 2016	1.512	Dec 2017	-		1.512	Continuing	Continuing	Continuing
COE Compliance	C/CPFF	Lockheed Martin : Orlando, FL	0.000	1.890	Mar 2016	0.900	Dec 2016	1.300	Dec 2017	-		1.300	Continuing	Continuing	Continuing
MRF-W Development of Army Training System	C/CPFF	Various : Various	10.200	-		-		-		-		-	Continuing	Continuing	Continuing
Development of logistics model	Various	Tapestry : San Diego, CA	20.615	-		-		-		-		-	0.000	20.615	20.615
WARSIM Development of Army Training System	SS/CPFF	Lockheed Martin Info Systems : Orlando, FL	122.061	-		-		-		-		-	0.000	122.061	122.570
Subtotal			209.727	10.857		6.754		6.868		-		6.868	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Army													Date: May 2017		
Appropriation/Budget Activity				R-1 Program Element (Number/Name)						Project (Number/Name)					
2040 / 5				PE 0604742A / Constructive Simulation Systems Development						362 / Jnt Land Component Constructive Trng					
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
Engineering & Tech Spt (SE, CM, Lab, Documentation)	Various	Various : Various	10.112	1.200	Jan 2016	-		-		-		-	Continuing	Continuing	Continuing
Subtotal			10.112	1.200		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
System T&E (I&T, VE, ORE)	Various	Various : Various	19.648	1.150	May 2016	1.317	Nov 2016	1.372	Nov 2017	-		1.372	Continuing	Continuing	Continuing
Verification, Validation and Accreditation	Various	Various : Various	13.244	-		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			32.892	1.150		1.317		1.372		-		1.372	-	-	-
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			307.794	17.306		12.036		12.228		-		12.228	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Army

Date: May 2017

Appropriation/Budget Activity

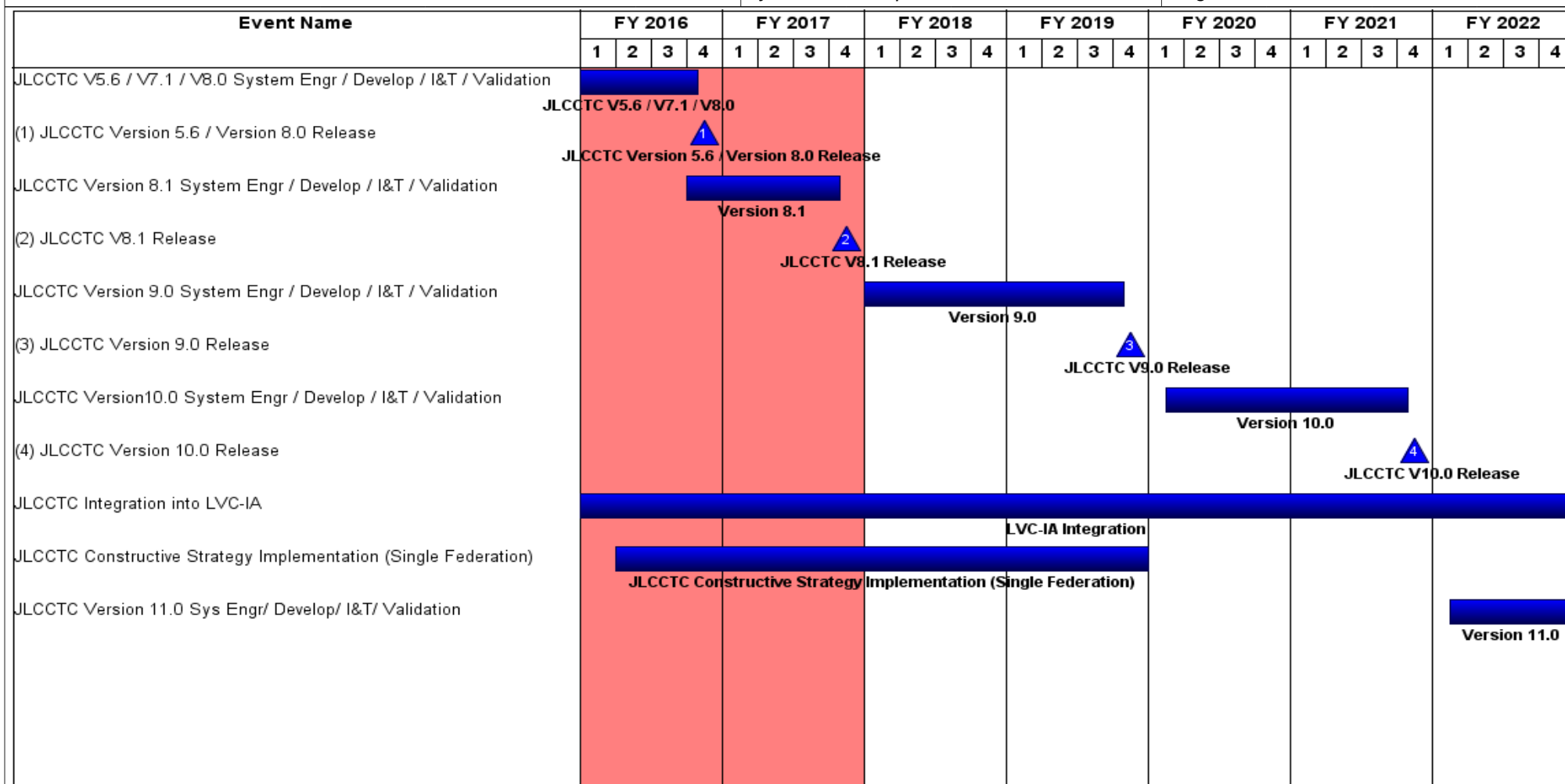
2040 / 5

R-1 Program Element (Number/Name)

PE 0604742A / Constructive Simulation
Systems Development

Project (Number/Name)

362 / Jnt Land Component Constructive
Trng



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Army			Date: May 2017
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 362 / <i>Jnt Land Component Constructive Trng</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
JLCCTC V5.6 / V7.1 / V8.0 System Engr / Develop / I&T / Validation	4	2014	4	2016
JLCCTC Version 5.6 / Version 8.0 Release	4	2016	4	2016
JLCCTC Version 8.1 System Engr / Develop / I&T / Validation	4	2016	4	2017
JLCCTC V8.1 Release	4	2017	4	2017
JLCCTC Version 9.0 System Engr / Develop / I&T / Validation	1	2018	4	2019
JLCCTC Version 9.0 Release	4	2019	4	2019
JLCCTC Version10.0 System Engr / Develop / I&T / Validation	1	2020	4	2021
JLCCTC Version 10.0 Release	4	2021	4	2021
JLCCTC Integration into LVC-IA	1	2014	4	2022
JLCCTC Constructive Strategy Implementation (Single Federation)	2	2016	4	2019
JLCCTC Version 11.0 Sys Engr/ Develop/ I&T/ Validation	1	2022	4	2023