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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army										Date: February 2018		
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	17.363	18.562	22.628	-	22.628	10.978	6.986	5.844	5.858	0.000	88.219
361: Intelligence Simulation Systems	-	5.638	6.334	5.347	-	5.347	2.868	0.916	0.340	0.347	0.000	21.790
362: Jnt Land Component Constructive Trng	-	11.725	12.228	17.281	-	17.281	8.110	6.070	5.504	5.511	0.000	66.429

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 intelligence soldier readiness 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 (USAICoEs) 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 All Source Analysis, 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); Tactical Ground Station (TGS); 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 training capabilities supporting detailed ISR individual, crew, and collective level mission rehearsals/exercises. IEWTPT can utilize a constructive simulation feed or operate in a stand-alone mode. IEWTPT is composed of two major components: Technical Control Cell (TCC) 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.

FY2019 funding supports U.S. Army readiness by developing interface capabilities with Intelligence, Surveillance, Reconnaissance (ISR) platform programs/systems of records to train detailed military intelligence mission essential tasks in a simulation environment. The funds provide the development of web-enabled capabilities and common operating environment/computing environment (COE/CE) migration for Command Post, Sensor, and Cloud requirements for both Human Control Cell (HCC) and Technical Control Cell (TCC).

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

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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.						
FY 2019 funding in the amount of \$9.047 million supports development, integration and test, and verification and validation activities of JLCCTC 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.						
FY 2019 funding in the amount of \$8.234 million supports JLCCTC mission command training program simulation upgrades. These upgrades will acquire the capabilities required (and identified by Division/Corps/Senior mentor) to properly replicate the operational environment in the simulation -- i.e. Aviation (Gray Eagle/Shadow/MUM-T); Electronic Warfare, Space, and Cyber. Funding also ensures program remains federated with other Joint capabilities, especially with the Air Force. These efforts will also support Combat Training Center (CTC) Enhancements.						
B. Program Change Summary (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget		17.887	18.562	16.792	-	16.792
Current President's Budget		17.363	18.562	22.628	-	22.628
Total Adjustments		-0.524	0.000	5.836	-	5.836
• Congressional General Reductions		-0.007	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-0.517	-			
• Adjustments to Budget Years		-	-	5.836	-	5.836
Change Summary Explanation						
Project 362 increased to support JLCCTC mission command training program simulation upgrades required to acquire the capabilities to properly replicate the operational environment in the simulation and to ensure program remains federated with other Joint capabilities.						

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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			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
361: Intelligence Simulation Systems	-	5.638	6.334	5.347	-	5.347	2.868	0.916	0.340	0.347	0.000	21.790
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program element funds the Intelligence & Electronic Warfare Tactical Proficiency Trainer (IEWTPT), a Non-System Training Device (NSTD), 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 (USAICoEs) 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 All Source intelligence. It stimulates multiple Intelligence, Surveillance, Reconnaissance (ISR) platform systems such as: PROPHET, Distributed Common Ground Station-Army (DCGS-A); Tactical Ground Station (TGS); 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, crew, collective, Live, Virtual, and Constructive integrated mission rehearsals/exercises utilizing a constructive simulation feed) in an integrated, playback, or stand-alone mode. IEWTPT is composed of two major components: Technical Control Cell (TCC) 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 2019 funding supports U.S. Army readiness by developing interface capabilities with Intelligence, Surveillance, Reconnaissance (ISR) platform programs/systems of records to train detailed military intelligence mission essential tasks in a simulation environment. The funds provide the development of web-enabled capabilities and common operating environment/computing environment (COE/CE) migration for Command Post, Sensor, and Cloud requirements for both the Human Control Cell (HCC) and Technical Control Cell (TCC).

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

	FY 2017	FY 2018	FY 2019
Title: IEWTPT development, integration and support.	4.809	5.505	5.347
Description: Continue IEWTPT development, integration and support to the user community.			
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.			

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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 2017	FY 2018	FY 2019
Refine SIGINT capabilities and evolve sensor emulation effects modeling as well as electronic intelligence replication for the 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. FY 2019 Plans: Will support V9.0 release and baseline improvements in development of detailed simulation interface capabilities for Intelligence, Surveillance, Reconnaissance (ISR) platform systems in the PEO Intelligence Electronic Warfare & Sensors (PEO IEW&S) portfolio to support home-station intelligence training. Additionally, FY19 will prototype a cloud enabled training portal for the TCC and multi-intelligence training in a distributed/federated environment. Key activities will be to develop All Source, SIGINT, and Electronic Warfare, prototypes and Open Source (OSINT) intelligence initial capabilities. Expand HUMINT, point of need, web-based, training capabilities, SIGINT scenario development tools, capabilities and evolve sensor emulation effects modeling as well as electronic intelligence replication for the 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. FY 2018 to FY 2019 Increase/Decrease Statement: Funds realigned to higher priority requirements.				
Title: Program Management for the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT). Description: Government Program Management for the IEWTPT 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. FY 2018 to FY 2019 Increase/Decrease Statement:		0.829	0.829	-

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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 2017	FY 2018	FY 2019
Decrease from FY18 to FY19 due to Dept of the Army Civilian labor costs moved to Operations & Maintenance, Army appropriation.												
Accomplishments/Planned Programs Subtotals										5.638	6.334	5.347
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
• TBWG, OMA 121: TBWG, OMA 121	4.270	3.483	2.704	-	2.704	2.767	2.758	0.006	0.005	Continuing	Continuing	
• NA0102: NSTD INTELLIGENCE	5.377	6.693	4.658	-	4.658	4.659	1.703	-	-	0.000	23.090	
Remarks												
D. Acquisition Strategy												
A full and open competitive five (5) year, cost type procurement contract, was awarded to General Dynamics Mission Systems, Orlando, FL on 16 February 2017. The IEWTPT Increment I/Block II contract has a two (2) year base with three (3) one (1) year options. The contract continues the incremental development, integration, test and evaluation, production and fielding and exercise/technical/training support for the US Army Military Intelligence Corps. The FY19 funds will provide continued version 9.0 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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604742A / Constructive Simulation Systems Development						Project (Number/Name) 361 / Intelligence Simulation Systems			
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	9.360	0.829	Oct 2016	0.829		-		-		-	Continuing	Continuing	Continuing
Subtotal			9.360	0.829		0.829		-		-		-	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
TCC Technology	C/CPFF	General Dynamics C4 Systems : Orlando, Florida	7.900	-		-		-		-		-	Continuing	Continuing	Continuing
TCC Technology	C/CPFF	General Dynamics Mission Systems : Orlando, Florida	-	4.809	Feb 2017	-		5.347	Feb 2019	-		5.347	Continuing	Continuing	Continuing
Eng & Manufacturing Dev.	Option/ CPFF	General Dynamics C4 Systems : Orlando, FL	58.560	-		5.505		-		-		-	Continuing	Continuing	Continuing
Subtotal			66.460	4.809		5.505		5.347		-		5.347	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 & Technical Support	Various	Various : Various	2.743	-		-		-		-		-	0.000	2.743	2.743
Subtotal			2.743	-		-		-		-		-	0.000	2.743	N/A

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Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
TEMP Support	Various	Multiple : Various	0.319	-		-		-		-		-	0.000	0.319	0.319
Test Engineering Support	Various	Multiple : Various	1.313	-		-		-		-		-	0.000	1.313	1.313
Subtotal			1.632	-		-		-		-		-	0.000	1.632	N/A

	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	80.195	5.638		6.334		5.347		-		5.347	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army			Date: February 2018		
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>	

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
TCC/HCC Development/Integration/Test																												
Version 7.0 Security Accred.	1																											
Version 7.0 Release		2																										
Version 8.0 Security Accred.					3																							
Version 8.0 Release						4																						
Version 9.0 Security Accred.								5																				
Version 9.0 Release									6																			
Version 10.0 Security Accred.													7															
Version 10.0 Release														8														
FOC															9													

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
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>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
TCC/HCC Development/Integration/Test	4	2007	4	2023
Version 7.0 Security Accred.	2	2017	2	2017
Version 7.0 Release	3	2017	3	2017
Version 8.0 Security Accred.	3	2018	3	2018
Version 8.0 Release	4	2018	4	2018
Version 9.0 Security Accred.	3	2019	3	2019
Version 9.0 Release	4	2019	4	2019
Version 10.0 Security Accred.	3	2020	3	2020
Version 10.0 Release	4	2020	4	2020
FOC	4	2020	4	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
362: Jnt Land Component Constructive Trng	-	11.725	12.228	17.281	-	17.281	8.110	6.070	5.504	5.511	0.000	66.429
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 2019 funding in the amount of \$9,047 million supports development, integration and test, and verification and validation activities of JLCCTC 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.

FY 2019 funding in the amount of \$8.234 million supports JLCCTC mission command training program simulation upgrades. These upgrades will acquire the capabilities required (and identified by Division/Corps/Senior mentor) to properly replicate the operational environment in the simulation -- i.e. Aviation (Gray Eagle/Shadow/MUM-T); Electronic Warfare, Space, and Cyber. Funding also ensures program remains federated with other Joint capabilities, especially with the Air Force. These efforts will also support Combat Training Center (CTC) Enhancements.

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

	FY 2017	FY 2018	FY 2019
Title: Improve JLCCTC software models to comply with emerging Common Operating Environment (COE)/Computing Environment (CE) requirements.	0.900	1.300	0.978
Description: Improve JLCCTC software models to comply with emerging COE/CE requirements.			
FY 2018 Plans:			

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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		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
Will continue improvements of JLCCTC software models to include common overlay development/modifications in support of COE compliance/standards. FY 2019 Plans: Will continue improvements of JLCCTC software models to include common overlay development/modifications in support of COE compliance/standards. FY 2018 to FY 2019 Increase/Decrease Statement: Accomplished additional work in FY 18, which reduced FY 19 requirement.				
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 2018 Plans: Continue to evolve JLCCTC to support emerging Mission Command requirements and fully comply with the Information Assurance Risk Management Framework (RMF) requirement. FY 2019 Plans: Continue to evolve JLCCTC to support emerging Mission Command requirements and fully comply with the Information Assurance Risk Management Framework (RMF) requirement. FY 2018 to FY 2019 Increase/Decrease Statement: Accomplished additional work in FY 18, which reduced FY 19 requirement.		1.539	1.512	1.030
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 2018 Plans: Continue to evolve JLCCTC software models to support additional emerging requirements in support of Commander and staff warfighter training exercises through Theater level. FY 2019 Plans:		1.843	1.892	1.793

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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		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019
Continue to evolve JLCCTC software models to support additional emerging requirements in support of Commander and staff warfighter training exercises through Theater level.				
FY 2018 to FY 2019 Increase/Decrease Statement: Accomplished additional work in FY 18, which reduced FY 19 requirement.				
Title: Engineering and Manufacturing Development (EMD) phase contract activity for Constructive Strategy Implementation Description: Constructive Strategy Implementation 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). FY 2019 Plans: Continue supporting 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. This will also complete the development of v9.0.		2.165	2.164	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 2018 Plans: Begin development and integration by conducting system test events (Integration and Testing) in support of a future JLCCTC v9.0 validation event. FY 2019 Plans: Continue conducting system test events (Integration and Testing) in support of the JLCCTC v9.0 validation event.		1.317	1.372	1.372
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 2018 Plans:		3.961	3.988	1.710

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B. Accomplishments/Planned Programs (\$ in Millions)								FY 2017	FY 2018	FY 2019	
Supports Government program management, engineering, logistics, contracting support and continues operational evaluation support for JLCCTC. FY 2019 Plans: Includes costs for program management, which includes technical engineering and logistics to continue operational evaluation for JLCCTC. Government civilian labor moved to OMA SAG 435 MDEP level. FY 2018 to FY 2019 Increase/Decrease Statement: Civilian Pay funding was moved from RDTE to OMA.											
Title: JLCCTC mission command training program simulation upgrades FY 2019 Plans: Funding to support JLCCTC mission command training program simulation upgrades that are required to properly replicate the operational environment in the simulation. These efforts will also support Combat Training Center (CTC) Enhancements. FY 2018 to FY 2019 Increase/Decrease Statement: Funding to support JLCCTC mission command training program simulation upgrades. These upgrades will acquire the capabilities required (and identified by Division/Corps/Senior mentor) to properly replicate the operational environment in the simulation; Electronic Warfare, Space, and Cyber. Funding also ensures program remains federated with other Joint capabilities.								-	-	8.234	
Accomplishments/Planned Programs Subtotals								11.725	12.228	17.281	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
• TBWG: OMA, 121	10.572	10.900	9.698	-	9.698	9.829	9.935	10.103	9.872	Continuing	Continuing
• NA0103: NSTD	41.959	35.578	38.113	-	38.113	30.467	30.564	31.599	31.050	Continuing	Continuing
COMMAND & CONTROL											
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: PB 2019 Army		Date: February 2018
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>
<p>JLCCTC produces a major software release/version every 18 to 24 months, which is then distributed/fielded to over 40 MTCs worldwide in support of Army Command and Staff Training.</p> <p><u>E. Performance Metrics</u> N/A</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
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					
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	Various : Various	59.162	3.961	Oct 2016	3.988	Oct 2017	1.798	Oct 2018	-		1.798	Continuing	Continuing	Continuing
Subtotal			59.162	3.961		3.988		1.798		-		1.798	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	3.376	2.165	Jan 2017	2.164		2.076	Jan 2019	-		2.076	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	2.140	1.843	Jan 2017	1.892		1.793	Jan 2019	-		1.793	Continuing	Continuing	Continuing
MC Systems Stimulation and Information Assurance	C/CPFF	Lockheed Martin : Orlando, FL	3.451	1.539	Dec 2016	1.512		1.030	Jan 2019	-		1.030	Continuing	Continuing	Continuing
COE Compliance	C/CPFF	Lockheed Martin : Orlando, FL	1.890	0.900	Dec 2016	1.300		0.978	Jan 2019	-		0.978	Continuing	Continuing	Continuing
JLCCTC mission command training program simulation upgrades	C/CPFF	Lockheed Martin : Orlando, FL	-	-		-		8.234	Jan 2019	-		8.234	Continuing	Continuing	Continuing
Subtotal			67.708	6.447		6.868		14.111		-		14.111	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	11.312	-		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			11.312	-		-		-		-		-	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
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>			
Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	20.798	1.317	Nov 2016	1.372		1.372	Jan 2019	-		1.372	Continuing	Continuing	Continuing
Verification, Validation and Accreditation	Various	Various : Various	13.244	-		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			34.042	1.317		1.372		1.372		-		1.372	Continuing	Continuing	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			172.224	11.725		12.228		17.281		-		17.281	Continuing	Continuing	N/A
Remarks															

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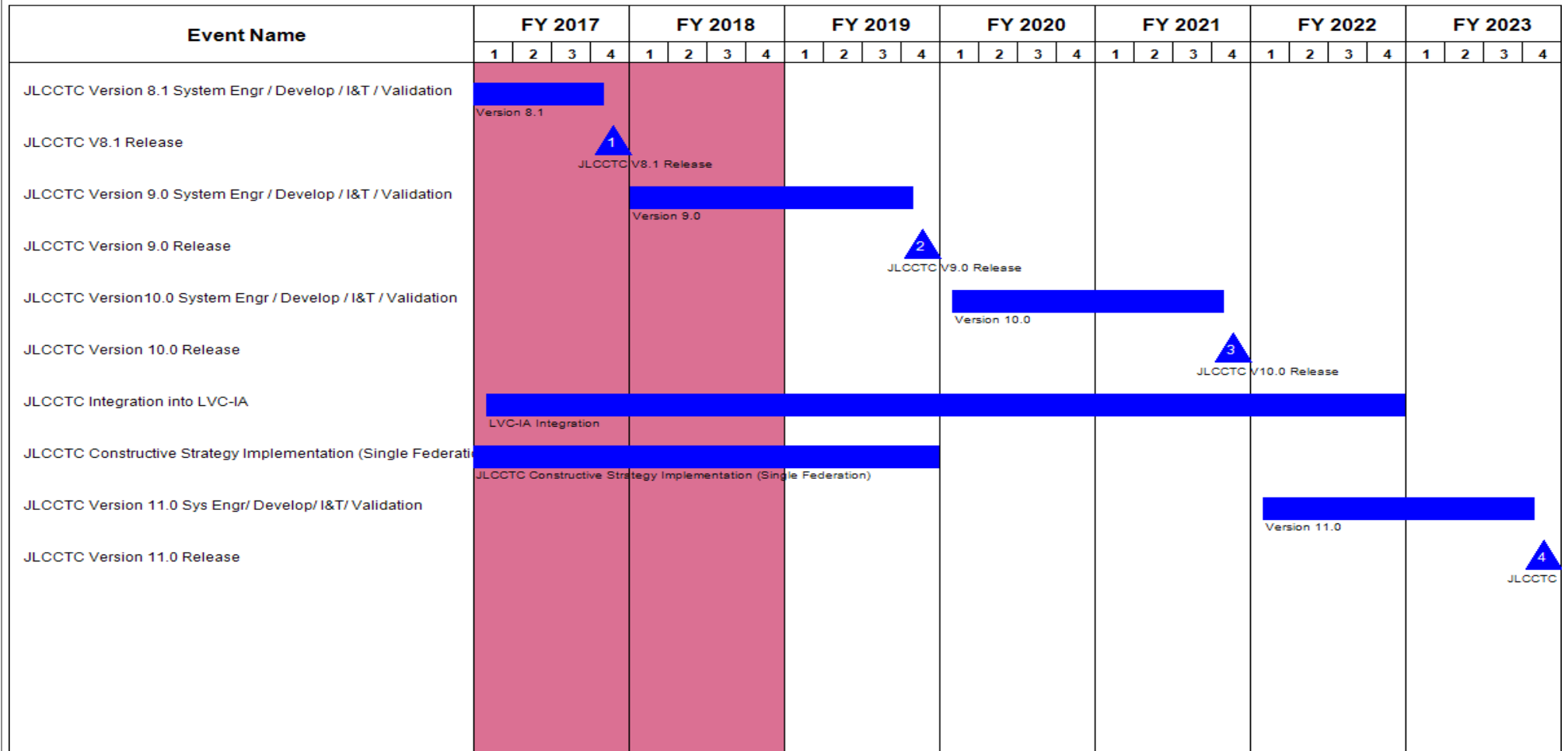
Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army

Date: February 2018

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*



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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
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 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
JLCCTC Version 11.0 Release	4	2023	4	2023