

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>
--	--

COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	8.775	27.155	30.774	0.033	30.807	31.084	28.360	24.978	26.341	Continuing	Continuing
241: <i>Nstd Combined Arms</i>	-	5.700	24.214	27.769	-	27.769	27.984	25.191	21.742	22.956	Continuing	Continuing
573: <i>Program Executive Office Simulation, Training Spt</i>	-	3.075	2.941	3.005	0.033	3.038	3.100	3.169	3.236	3.385	Continuing	Continuing

A. Mission Description and Budget Item Justification

Program Element funds development of Non-System Training Devices to support force-on-force training at the Combat Training Centers (CTC), general military training, and training on more than one item/system, as compared with system devices which are developed in support of a specific item/weapon system. Army training devices and training simulations contribute to the modernization of the forces by enabling readiness and strengthening combat effectiveness through realistic training solutions for the Warfighter. Training devices maximize the transfer of knowledge, skills, and experience from the training situation to a combat situation. Force-on-force training at the National Training Center (NTC), Ft. Irwin, CA; Joint Readiness Training Center (JRTC), Ft. Polk, LA, and Joint Multinational Readiness Center (JMRC), formerly the Combat Maneuver Training Center (CMTC), Hohenfels, Germany; and battle staff training in Battle Command Training Program (BCTP) provide increased combat readiness through realistic collective training in low, mid, and high intensity scenarios. Project 241, Non-System Training Devices-Combined Arms, develops simulation training devices for Army-wide use, including the CTCs. Project 573 funds key organizational support to Army/DoD Transformation via innovative simulation and training device efforts. Program Executive Office (PEO) Simulation, Training and Instrumentation (STRI's) unique geographic co-location with other services facilitates joint training solutions in a common environment.

FY 2017 Project 241 funds significant development efforts in support of U.S. Army Training and Readiness on the Combat Training Center Instrumentation Systems (CTC-IS), Instrumentable-Multiple Integrated Laser Engagement System (I-MILES), Home Station Instrumentation Training System (HITS), Common Training Instrumentation Architecture (CTIA), Target Modernization, Call for Fire Trainer (CFFT), Medical Simulation Training Center (MSTC), Engagement Skills Trainer (EST), Live, Virtual, Constructive Integrating Architecture (LVC-IA) and Comprehensive Soldier & Family Fitness (CSF2).

FY 2017 Project 573 will provide for minimum PEO STRI core operations supporting development of training devices and simulations by PEO STRI's three Project Management Offices.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army	Date: February 2016
---	----------------------------

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>
--	--

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	8.943	27.155	41.087	-	41.087
Current President's Budget	8.775	27.155	30.774	0.033	30.807
Total Adjustments	-0.168	0.000	-10.313	0.033	-10.280
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.168	-			
• Adjustments to Budget Years	-	-	-10.313	0.033	-10.280

Change Summary Explanation

FY 2017 Funds were realigned to higher priority requirements.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>				Project (Number/Name) 241 / <i>Nstd Combined Arms</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
241: <i>Nstd Combined Arms</i>	-	5.700	24.214	27.769	-	27.769	27.984	25.191	21.742	22.956	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Common Training Instrumentation Architecture (CTIA) program provides the common product-line architecture, product line software, standards, services, and architecture framework for developing the Live Training Transformation (LT2) Product Line of live training systems supporting Army-wide live instrumented Force-On-Force (FOF) and Force-On-Target (FOT) training requirements and is the core live architecture for the Live, Virtual, Constructive Integrated Training Environment (LVC-ITE).

Combat Training Center Instrumentation System (CTC-IS) funds the continued development of the existing Instrumentation Systems (IS) at the National Training Center (NTC), Joint Readiness Training Center (JRTC) and Joint Multinational Readiness Center (JMRC). CTC-IS funds the continued development of the Range Communication System at the NTC and JRTC, to provide high-fidelity live, virtual, and constructive brigade training rotations which prepare Brigade Combat Teams (BCTs), Joint partners, and supporting units to deploy in support of the Army Sustainable Readiness Model (SRM). The CTCs primary goal is to develop agile and adaptive leaders at the tactical, operational and strategic levels while providing BCTs the core training necessary to conduct decisive action in a dynamic operating environment.

The Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) program provides realistic, real-time casualty effects for force-on-force tactical engagement training scenarios and its ability to integrate into training instrumentation systems provide for high fidelity combined arms combat exercises supporting the 39th Chief of the Staff of the Army #1 priority of "Readiness". Due to their modular design, I-MILES is required for use at the Home Station, the Combat Training Centers (CTCs) and in theater of operations to meet force-on-force training requirements. I-MILES program funding provides the Development and Integration of new vehicle and dismount weapon systems meeting the Common Operating Environment (COE) requirements, as well as embedded Tactical Engagement Simulation (TES) development. This includes new development efforts of the Live Training Engagement Composition (LTEC), increasing simulation of Probability of Kill (Pk) for training realism and improving integration on new weapon platforms (i.e. Joint Light Tactical Vehicle (JLTV), Armored Multi-Purpose Vehicle (AMPV), M4A2 Plus Rifle and Stryker Engineering Change Proposal (ECP) with 30mm Gun).

The Home Station Instrumentation Training System (HITS) provides a high-fidelity deployable instrumented training capability to support platoon thru battalion level Live Force-on-Force Training. HITS tracks location of soldiers and vehicles and simulates weapons' effects and engagements, allowing units to "Train as they Fight" against live opponents. HITS provides accurate feedback to training units. HITS consists of light deployable components that can be rapidly assembled/disassembled and transported to support deployed training. HITS integrates with future and legacy MILES. HITS is a member of the Live Training Transformation (LT2) family of training systems and shares several hardware and software components with the Instrumentation Systems (IS). HITS provides the Live domain for Live-Virtual-Constructive (LVC) training integration.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>
<p>The Medical Simulation Training Center (MSTC) provides realistic medical training to both medical and non-medical Soldiers in the Active, Reserve, and National Guard. MSTCs provide hands-on instruction on the latest battlefield trauma and critical care techniques based on Army Medical Department (AMEDD) approved performance oriented Program of Instruction (POI). Medical treatment validation exercises simulate the high stress of performing medical interventions in combat. MSTC supports Unit Medical Readiness by validating Combat Medic (68W) Emergency Medical Technician (EMT) biennial recertification requirements and provides Combat Lifesaver (CLS) training to non-medical Soldiers.</p> <p>The Engagement Skills Trainer (EST) is the unit/institutional, indoor, multipurpose, multi-lane, small arms, crew-served and individual anti-tank training simulation that enables training across three different modes: individual marksmanship; small unit (collective) gunnery and tactical training; and judgmental use of force (shoot/don't shoot), which includes escalation of force/graduated response scenarios.</p> <p>The Call for Fire Trainer (CFFT) family of systems is a lightweight, rapidly deployable, observed fire training system that provides simulated battlefield training for Fire Support Specialists (FSS), Joint Fires Observers (JFO), and Soldiers. The system provides simulated battlefield training to conduct Indirect Fires, Close Air Support, Close Combat Attack, and Naval Surface Fire Support. The CFFT Immersive System provides the capability for Army, Joint, Multinational and Special Operations Forces to conduct advanced, complex and realistic fires training at the FIRES Center of Excellence, Ft Sill, OK. CFFT is a critical training enabler to support Warfighters in applying precision fires on target to prevent fratricide and minimize collateral damage.</p> <p>The Live, Virtual, Constructive Integrating Architecture (LVC-IA) provides a net-centric linkage that collects, retrieves and exchanges data among LVC Training Aids, Devices, Simulations, and Simulators (TADSS) (to include: AVCATT, CCTT, GFT, HITS, JLCCTC and SE Core) and Mission Command Systems. The LVC-IA defines "how" information is exchanged among the different LVC domains and the Mission Command Systems. The LVC-IA provides enterprise level tools for exercise control, after action review, and system information assurance. It develops hardware and software to interface the different Live, Virtual, Constructive and Gaming communication protocols and to provide a correlated common operating picture for the training audience on their organic Mission Command equipment. The integration of the LVC TADSS with the Mission Command equipment will enable larger and more robust training events, to better prepare U.S. Soldiers for their missions at an overall reduced cost. The end-state goal is to enable an LVC Integrated Training Environment that can replicate Operational Environments in a cost effective manner to provide a high level of value-added training and mission rehearsal opportunities to Army Commanders and their Soldiers. In FY16, Version 2 testing and validation will be complete and the initiation of Version 3 development will follow. FY17 request will continue Version 3 development activities.</p> <p>The Target Modernization program provides a common architectural framework, standards, specifications, and interfaces for live fire target devices, a common target control system for all range types, and innovative technologies to enhance training realism and reduce life cycle costs on the ranges.</p> <p>Comprehensive Soldier & Family Fitness (CSF2) is research and development efforts that include Future Soldier Assessment Tool (DASH-R) Project, Global Assessment Tool (GAT) 3.0 Project, and Program Evaluation (PE) Project.</p> <p>FY 2017 Project 241 funds significant development efforts in support of U.S. Army Training and Readiness on the Combat Training Center Instrumentation Systems (CTC-IS), Instrumentable-Multiple Integrated Laser Engagement System (I-MILES), Home Station Instrumentation Training System (HITS), Common Training</p>		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army			Date: February 2016		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>			
Instrumentation Architecture (CTIA), Target Modernization, Call for Fire Trainer (CFFT), Medical Simulation Training Center (MSTC), Engagement Skills Trainer (EST), Live, Virtual, Constructive Integrating Architecture (LVC-IA) and Comprehensive Soldier & Family Fitness (CSF2).					
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Common Training Instrumentation Architecture (CTIA) program.</p> <p>Description: Continue EMD phase contract activities for the CTIA program to provide the common architecture capabilities.</p> <p>FY 2016 Plans: Continue development of CTIA to provide the common architecture capabilities that are essential for development, fielding, technology and capability insertion for Live Training Systems (LTS) to include: the Combat Training Centers-Instrumentation Systems (CTC-IS), Integrated Military Operations in Urbanized Terrain Training System (IMTS), Home Station Instrumentation Systems (HITS), Digital Ranges Training System (DRTS) training instrumentation programs and the Live, Virtual, Constructive-Integrated Training Environment (LVC-ITE) interoperability initiatives.</p> <p>FY 2017 Base Plans: Continue development of CTIA to provide the common architecture capabilities that are essential for development, fielding, technology and capability insertion for Live Training Systems (LTS) to include: the Combat Training Centers-Instrumentation Systems (CTC-IS), Integrated Military Operations in Urbanized Terrain Training System (IMTS), Home Station Instrumentation Systems (HITS), Digital Ranges Training System (DRTS) training instrumentation programs and the Live, Virtual, Constructive-Integrated Training Environment (LVC-ITE) interoperability initiatives.</p>	-	4.285	2.550	-	2.550
<p>Title: Government Program Management for the Common Training Instrumentation Architecture (CTIA) program.</p> <p>Description: Government Program Management for the CTIA program.</p> <p>FY 2016 Plans: Program Management for the Common Training Instrumentation Architecture (CTIA) program.</p> <p>FY 2017 Base Plans: Program Management for the Common Training Instrumentation Architecture (CTIA) program.</p>	-	0.364	0.334	-	0.334
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Combat Training Center Instrumentation System (CTC-IS).</p>	2.918	2.328	5.554	-	5.554

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Description: Continue EMD phase contract activities for the CTC-IS.</p> <p>FY 2015 Accomplishments: Combat Training Center Instrumentation System (CTC-IS) continued development of the existing Instrumentation Systems (IS) at the National Training Center (NTC), Joint Readiness Training Center (JRTC) and Joint Multinational Readiness Center (JMRC). Funding was used to continue develop of a common Range Communications System (RCS) that can be implemented at all both NTC and JRTC for increased entity tracking coverage and accuracy in order to increase After Action Review fidelity for Brigade Combat Team rotations to better prepare units for deployment.</p> <p>FY 2016 Plans: Combat Training Center Instrumentation System (CTC-IS) will fund the continued development of the existing Instrumentation Systems (IS) at the National Training Center (NTC), Joint Readiness Training Center (JRTC) and Joint Multinational Readiness Center (JMRC). Funding will be used to develop a common Range Communications System (RCS) that can be implemented at all both NTC and JRTC for increased entity tracking coverage and accuracy in order to increase After Action Review fidelity for Brigade Combat Team rotations to better prepare units for deployment.</p> <p>FY 2017 Base Plans: Combat Training Center Instrumentation System RDTE funding will focus on both architectures to support future instrumentation systems such as the Common Domain Solution (CDS) and IS Preparation; RDTE will provide up front analysis of new technologies and efficiencies needed to make Continuous Technology Refresh decisions that will reduce the Total logistical footprint of the system, improve reliability and performance and reduce cost of the system over its Total Life Cycle. These analysis will also focus on pre-positioning needed architectures and design to support the future IS.</p>					
<p>Title: Government Program Management for the Combat Training Center Instrumentation System (CTC-IS) program.</p> <p>Description: Government Program Management for the CTC IS program.</p> <p>FY 2015 Accomplishments: Program Management for the Combat Training Center Instrumentation System (CTC-IS) program.</p> <p>FY 2016 Plans:</p>	1.192	1.447	1.546	-	1.546

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army			Date: February 2016			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>				
B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Program Management for the Combat Training Center Instrumentation System (CTC-IS) program.						
FY 2017 Base Plans: Program Management for the Combat Training Center Instrumentation System (CTC-IS) program; providing support of program office management and administrative processes.						
Title: Government Program Management for the Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) Program.		-	-	0.304	-	0.304
Description: Government Program Management for the I-MILES program.						
FY 2017 Base Plans: Government Program Management cost for the Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) Program. This is the first year of RDTE for the I-MILES program.						
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Instrumentable-Multiple Integrated Laser Engagement System (I-MILES).		-	-	1.041	-	1.041
Description: EMD phase contract activities for the I-MILES program.						
FY 2017 Base Plans: RDTE funding will assist in analyzing, developing and testing the Live Training Engagement Composition (LTEC) and integration of the Tactical Engagement Simulation (TES) Componentized Architecture into existing and new I-MILES capabilities to improve training realism during Force on Force (FoF) training increasing performance and reducing overall lifecycle costs. RDTE reduces the risk of integration into vehicle weapon platforms and Vehicular Integration for C4ISR/EW Interoperability (VICTORY) Architecture while maintaining relevancy into emerging Weapon Systems (Joint Lite Tactical Vehicle (JLTV), Armored Multi-Purpose Vehicle (AMPV), Stryker Engineering Change Proposal (ECP) with 30mm Gun). RDTE will assist in maintaining I-MILES relevancy as the Army premier Live Force-on-Force training system. This is the first year of RDTE for the I-MILES program.						
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Home Station Instrumentation Training System (HITS) program.		-	1.550	1.683	-	1.683
Description: EMD phase contract activities for the HITS program.						
FY 2016 Plans:						

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Integrate and test the interface between HITS (v3 and v4) and the latest versions of the Live, Virtual, and Constructive Integrating Architecture (LVC-IA v2.0) to sustain the Integrated Training Environment (ITE) at Home Stations.</p> <p>FY 2017 Base Plans: Develop, integrate, and test the HITS interfaces with new versions of the Tactical Engagement Simulation System (TESS) (ex. VTESS) and provide upgrades to existing fielded Instrumentable-Multiple Laser Engagement System (I-MILES).</p>					
<p>Title: Government Program Management for the Home Station Instrumentation System (HITS) program.</p> <p>Description: Government Program Management for the Home Station Instrumentation System (HITS) program.</p> <p>FY 2015 Accomplishments: Program Management for the Home Station Instrumentation System (HITS) program.</p> <p>FY 2016 Plans: Program Management for the Home Station Instrumentation System (HITS) program.</p> <p>FY 2017 Base Plans: Program Management for the Home Station Instrumentation System (HITS) program.</p>	0.100	0.300	0.307	-	0.307
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Medical Simulation Training Center (MSTC).</p> <p>Description: EMD phase contract activities for the MSTC program.</p> <p>FY 2016 Plans: Medical Training - Command and Control (MT-C2) provides the capability to manipulate the environments in which scenarios take place, in order to maximize the positive impact and training experience of each fluid training event in the training sequence. The Medical Testing and Evaluation System (MTES) provides a hardware solution to MT-C2 in the form of an inherent server system, Wi-Fi router and Wi-Fi access points already installed in the MSTC, along with an approved network certification. The integration of MTES also provides the ability to expand memory capability to host the MT-C2 software.</p> <p>FY 2017 Base Plans: Enhancement of Birthing Simulator by developing realistic simulated tissue and sensors that will gather objective metrics regarding pressure, fetal position, etc. Enhancement of Intraosseous Fluid Resuscitation Training</p>	-	0.945	0.530	-	0.530

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army			Date: February 2016			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>				
B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
by including anatomical accuracy, tissue properties, and rapid refresh of the system to support high training OPTEMPO.						
<p>Title: Government Program Management for the Medical Simulation Training Center (MSTC) program.</p> <p>Description: Government Program Management for the MSTC program.</p> <p>FY 2016 Plans: Government Program Management for the Medical Simulation Training Center (MSTC) program.</p> <p>FY 2017 Base Plans: Government Program Management for the Medical Simulation Training Center (MSTC) program.</p>		-	0.177	0.167	-	0.167
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Engagement Skills Trainer (EST) program.</p> <p>Description: EMD phase contract activities for the Engagement Skills Trainer (EST) program.</p> <p>FY 2016 Plans: Develop EST Dynamic Terrain to accurately portray all battlefield effects, in accordance with the Contemporary Operating Environment (COE), across the full range of military operations including: friendly and enemy forces and their doctrine, tactics, techniques and procedures; all military recognized terrain; atmospheric and weather conditions; specific enemy and friendly vehicles and equipment; dynamic, correlated terrain; the effects of munitions on personnel, vehicles, structures; and develop prior years efforts (weapons, optics, etc). Develop enhanced capabilities in accordance with the capability manager's priorities.</p> <p>FY 2017 Base Plans: Will continue to develop EST Dynamic Terrain to accurately portray all battlefield effects, in accordance with the Contemporary Operating Environment (COE), across the full range of military operations including: friendly and enemy forces and their doctrine, tactics, techniques and procedures; all military recognized terrain; atmospheric and weather conditions; specific enemy and friendly vehicles and equipment; dynamic, correlated terrain; the effects of munitions on personnel, vehicles, structures; and develop prior years efforts (weapons, optics, etc). Develop enhanced capabilities in accordance with the capability manager's priorities.</p>		-	1.186	1.002	-	1.002
<p>Title: Call For fire Trainer (CFFT) Program Government System Test and Evaluation.</p> <p>Description: Government System Test and Evaluation for the Call For fire Trainer (CFFT) Program.</p>		-	-	1.314	-	1.314

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p><i>FY 2017 Base Plans:</i> Develop updates to maintain currency of the CFFT in order to meet the needs of the operational and institutional force, informed by the Modernization of Force initiative including precision engagement and tactical software interoperability.</p>					
<p><i>Title:</i> Live, Virtual, Constructive Integrating Architecture (LVC-IA) Engineering and Manufacturing Development (EMD) phase contract activity.</p> <p><i>Description:</i> Continue EMD phase contract activities for the LVC-IA program.</p>	-	5.432	4.429	-	4.429
<p><i>FY 2016 Plans:</i> Live, Virtual, and Constructive – Integrating Architecture (LVC-IA) program will complete system integration and testing of the Version 2 capability and begin design and development LVC-IA Version 3 capability.</p> <p><i>FY 2017 Base Plans:</i> Continue system development, integration and demonstration of the LVC-IA Version 3 capability.</p>					
<p><i>Title:</i> Government Program Management for the Live, Virtual, Constructive Integrating Architecture (LVC-IA) Program.</p> <p><i>Description:</i> Government Program Management for the LVC-IA Program.</p>	0.915	1.756	1.782	-	1.782
<p><i>FY 2015 Accomplishments:</i> Provided program management, engineering and technical oversight, contract support and travel for the LVC-IA Program.</p> <p><i>FY 2016 Plans:</i> Will provide program management, engineering and technical oversight, contract support, and travel for the LVC-IA Program.</p> <p><i>FY 2017 Base Plans:</i> Will provide program management, engineering and technical oversight, contract support, and travel for the LVC-IA Program.</p>					
<p><i>Title:</i> Live, Virtual, Constructive Integrating Architecture (LVC-IA) Program Government System Test and Evaluation.</p> <p><i>Description:</i> Government System Test and Evaluation for the LVC-IA Program.</p>	-	1.133	2.199	-	2.199

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p><i>FY 2016 Plans:</i> LVC-IA will continue integration testing support on developed components for LVC-IA for interoperability with TADSS and other Mission Command Systems. LVC-IA will conduct Federation Integration, Functional Verification and System Measurement of Performance (SMP) events, complete Test Readiness Review (TRR) and Government Acceptance Testing for Version 2. The program will begin efforts for Version 3 in FY16 once Version 2 efforts are completed.</p> <p><i>FY 2017 Base Plans:</i> LVC-IA will continue integration testing and evaluation activities in support of LVC-IA interoperability with TADSS and other Mission Command Systems. LVC-IA will conduct Federation Integration Events in preparation for final test activities for Version 3.</p>					
<p><i>Title:</i> Engineering and Manufacturing Development (EMD) phase contract activity for the Target Modernization program.</p> <p><i>Description:</i> EMD phase contract activities for the Target Modernization program.</p> <p><i>FY 2016 Plans:</i> Develop and integrate autonomous trackless moving type targets with behavioral capabilities into the Government owned target control system Targetry Range Automated Control and Recording (TRACR). The design includes a trackless target that can be utilized on unimproved terrain, and is capable of independent behaviors based on training doctrine, skills, readiness and style of learning to enhance realism and feedback for the Soldier. Bridge technology transition from an on-going SBIR effort that began in FY13.</p> <p><i>FY 2017 Base Plans:</i> Continuation of FY16 efforts to develop and integrate autonomous trackless moving type targets with behavioral capabilities into the Government owned target control system Targetry Range Automated Control and Recording (TRACR). Transition technology to the Future Army System of Integrated Targets (FASIT) Program.</p>	-	2.005	2.054	-	2.054
<p><i>Title:</i> Comprehensive Soldier & Family Fitness (CSF2)</p> <p><i>Description:</i> Comprehensive Soldier & Family Fitness (CSF2), the Army community's premier resilience and health training program.</p> <p><i>FY 2015 Accomplishments:</i></p>	0.575	1.306	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Develops, tests and implements a variety of psychometric instruments administered on an electronic world-wide delivery platform; evaluation of Comprehensive Soldier and Family Fitness (CSF2) training effectiveness at influencing objective outcomes in the health and work performance domains; applying advanced statistical analysis techniques to emerging human subjects problems identified by the Army senior leadership (e.g., suicide, violent crime, sexual assault / harassment, etc).					
FY 2016 Plans: Developing, testing, and implementing a variety of psychometric instruments administered on an electronic world-wide delivery platform; evaluation of CSF2 training effectiveness at influencing objective outcomes in the health and work performance domains; applying advanced statistical analysis techniques to emerging human subjects problems identified by the Army senior leadership (e.g., suicide, violent crime, sexual assault / harassment, etc).					
Title: Soldier Fitness Program Description: Dollars belong to the Soldier Fitness Program.	-	-	0.973	-	0.973
FY 2017 Base Plans: Dollars belong to Soldier Fitness Program.					
Accomplishments/Planned Programs Subtotals	5.700	24.214	27.769	-	27.769

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Training Devices, Non-System (OPA): <i>Training Devices, Non-System (OPA)</i>	117.093	278.236	253.050	-	253.050	260.137	277.370	199.834	191.596	Continuing	Continuing
• CTC Support (OPA): <i>CTC Support (OPA)</i>	76.362	74.916	75.359	-	75.359	76.695	71.702	89.898	74.601	Continuing	Continuing

Remarks

D. Acquisition Strategy

Competitive development efforts based on performance specifications.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>
<p>Combat Training Center Instrumentation Systems (CTC-IS) –</p> <p>a. In FY17, Combat Training Center Instrumentation System RDTE funding will be used for development of a Cross Domain Solution (CDS) needed due to new IA requirements; will award a new delivery order (DO) to General Dynamics Missions Systems under the Live Training Transformation Consolidated Product-line Management Next (LT2 CPM Next) contract. CPM Next was completed as a Competitive 5 year Single Award Indefinite-Delivery/Indefinite-Quantity (IDIQ) Contract, the DO will have a one-year base and four single-year option period.</p> <p>b. In FY17, Combat Training Center Instrumentation System RDTE funding will also be used to fund a Life Cycle Product-line Management (LCPM) contract structured as a 5 year Single Award Indefinite-Delivery/Indefinite-Quantity (IDIQ) Contract for the implementation of a Hardware Product Line (HPL), the contractor is to be selected. The strategy is to efficiently and effectively address life cycle management of Live Training Systems. RDT&E will provide up front analysis of new technologies and efficiencies needed to make Continuous Technology Refresh decisions that will reduce the Total logistical footprint of the system, improve reliability and performance and reduce cost of the system over its Total Life Cycle. These analysis will also focus on pre-positioning needed architectures and design to support future Instrumentation Systems.</p> <p>Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) –</p> <p>In FY17, Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) will award a new delivery order (DO) to General Dynamics Mission Systems on the Live Training Transformation Consolidated Product-line Management Next (LT2 CPM Next) contract which will provide flexibility for unknown requirements and will address the known requirements that fall within multiple categories: Architecture Maturation; Common Operating Environment (COE); Embedded Training; System level testing of existing and future Live Training Engagement Composition (LTEC) services for dismount and vehicle use cases; Architecture Verification/Validation of LTEC and a componentized architecture; Retrofitting I-MILES systems (Individual Weapons System 1 & 2 (IWS), Tactical Vehicle System (TVS), Combat Vehicle Tactical Engagement Simulation System (CVTESS)) with LTEC and Live Player Area Network (LPAN); Development, Integration, Form, Fit & Function for new vehicles/systems platforms (Joint Lite Tactical Vehicle (JLTV), Armored Multi-Purpose Vehicle (AMPV), Stryker Engineering Change Proposal (ECP) with 30mm Gun). Software development that includes LTEC integration of Probability of Kill (Pk) and Small Arms Transmitters for TVS, integration into Vehicular Integration for C4ISR/EW Interoperability (VICTORY) and product improvement to address obsolescence and I-MILES relevancy until ATESS Increment 3 to maintain relevancy in the Force on Force (FoF) environment.</p> <p>Home Station Instrumentation Training System (HITS) –</p> <p>In FY16, the HITS program will award a delivery order (DO) to General Dynamics Missions Systems under the LT2 CPM Next contract. The DO has a one-year base and four single-year option periods beginning in January 2016. The contract provides the post deployment software support (PDSS) required to manage the configuration, maintain cyber security, and modernize the Home Station Instrumentation Training System (HITS) Exercise Control (ExCon) Subsystem. HITS is a product under the Live Training Transformation (LT2) Consolidated Product-line Management (LT2 CPM) effort, therefore configuration management and PDSS will be executed within the framework of the LT2 CPM. Configuration Management and PDSS efforts include but are not limited to software design, integration & testing, maintenance, modernization, and configuration management.</p> <p>Common Training Instrumentation Architecture (CTIA) –</p> <p>In FY15, the CTIA program awarded a contract to General Dynamics Mission Systems which has a one-year base and four single-year option periods beginning in February 2015. The contract provides the post deployment software support (PDSS) for fielded versions of the CTIA architecture across the LT2 product line and for</p>		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>
<p>the technical insertion development activities for new versions of CTIA, specifically to upgrade the CTIA architecture to a Service Oriented Architecture (SOA) to remain aligned with ASA ALT Common Operation Environment (COE) initiatives and to allow LT2 live training products to utilize new mobile and cloud technologies.</p> <p>Target Modernization – In FY16, the Target Modernization (Target Mod) program will award a competitively competed contract to General Dynamics Mission Systems on the Live Training Transformation Consolidated Product-line Management Next (LT2 CPM Next) contract which will have a one-year base and four single-year option periods beginning in March 2016. The contract will provide for product development (from TRL 7 to TRL 9). The original effort was initiated under a Small Business Innovation Research (SBIR) contract. The LT2 CPM Next contract will continue development and transition the technology that includes trackless moving targets systems, enhanced infrared/thermal imaging, and non-contact hit sensing from the initial efforts into the various products, products lines and Program of Records that can utilize the systems.</p> <p>Call for Fire Trainer (CFFT) – In FY12, the CFFT program awarded a contract to Nova Technologies which has a one-year base and four single-year option periods beginning in August 2012. The contract provides a lightweight, rapidly deployable, observed fire training system that provides simulated battlefield training for Fire Support Specialists (FSS), Joint Fires Observers (JFO), and Soldiers. The system provides simulated battlefield training to conduct Indirect Fires, Close Air Support, Close Combat Attack, and Naval Surface Fire Support. The CFFT Immersive System provides the capability for Army, Joint, Multinational, and Special Operations Forces to conduct advanced, complex, and realistic fires training at the Fires Center of Excellence, Ft Sill, OK. CFFT is a critical training enabler to support Warfighters in applying precision fires on target to prevent fratricide and minimize collateral damage.</p> <p>Engagement Skills Trainer (EST) In FY14, the EST program awarded contract to Meggitt Training Systems, Inc. which has a one year base and four single year option periods beginning in FY15. The contract provides the unit/institutional, indoor, multipurpose, multi-lane, small arms, crew-served and individual anti-tank training simulation that enables training across three different modes: individual marksmanship; small unit (collective) gunnery and tactical training; and judgmental use of force (shot/don't shoot), which includes escalation of force/graduated response scenarios.</p> <p>Live, Virtual, Constructive Integrating Architecture (LVC-IA) - In FY10, the LVC-IA program awarded a contract to Cole Engineering and Science, Inc. (CESI) which had a two-year base and three single-year option periods beginning in June 2010. The contract provides for developing, fielding and training each version capability to the designated Basis of Issue Plan (BOIP) sites and provides Post-Deployment Software Support (PDSS) for all currently fielded versions. The LVC-IA Enhanced Capability contract will be a follow-on effort beginning the 3rd Quarter FY16. This award will have a two-year base and four single-year option periods. This effort will provide the additional capabilities for Version 3 and beyond.</p> <p><u>E. Performance Metrics</u> N/A</p>		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>
--	--	---

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
OneTESS Program Management	Various	PEO STRI : Orlando, FL	8.046	-		-		-		-		-	0	8.046	8.046
OneTESS Program Management	Various	PEO STRI, : Orlando, FL	2.040	-		-		-		-		-	0	2.040	2.040
HITS Program Management	Various	PEO STRI : Orlando, FL	0.400	0.100	Jan 2015	0.300	Jan 2016	0.307	Jan 2017	-		0.307	Continuing	Continuing	Continuing
CTC-IS Program Management	Various	PEO STRI : Orlando, FL	4.059	1.192	Mar 2015	1.447	Mar 2016	1.546	Dec 2016	-		1.546	Continuing	Continuing	Continuing
MSTC Program Management	Various	PEO STRI : Orlando, FL	0.455	-		0.177	Mar 2016	0.167	Mar 2017	-		0.167	Continuing	Continuing	Continuing
I-MILES Program Management	Various	PEO STRI : Orlando, FL	0.000	-		-		0.304	Dec 2016	-		0.304	Continuing	Continuing	Continuing
EST Program Management	Various	PEO STRI : Orlando, FL	0.214	-		-		-		-		-	0	0.214	0.214
LVC-IA Program Management	Various	PEO STRI : Orlando, FL	4.909	0.915	Dec 2014	1.756	Dec 2015	1.782	Dec 2016	-		1.782	Continuing	Continuing	Continuing
Target Modernization	Various	PEO STRI : Orlando, FL	0.614	-		-		-		-		-	0	0.614	0.614
ETC-IS Program Management	Various	PEO STRI : Orlando, FL	0.164	-		-		-		-		-	0	0.164	0.164
CSF2	TBD	Multiple : Various	0.000	0.160		0.356		-		-		-	0.000	0.516	0.516
CTIA	Various	PEO STRI : ORLANDO, FL	0.000	-		0.364	Dec 2015	0.334	Dec 2016	-		0.334	Continuing	Continuing	Continuing
Soldier Fitness Program	TBD	Multitple : Various	0.000	-		-		0.973	Oct 2016	-		0.973	0	0.973	0.973
Subtotal			20.901	2.367		4.400		5.413		-		5.413	-	-	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016			
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604715A / Non-System Training Devices - Eng Dev					Project (Number/Name) 241 / Nstd Combined Arms						
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
OneTESS	SS/CPFF	General Dynamics : Fairfax, VA	124.769	-		-		-		-		-	0	124.769	124.769
OneTESS	SS/CPFF	General Dynamics C4 Systems : Orlando, FL 32826	10.430	-		-		-		-		-	0	10.430	10.430
CTIA	C/IDIQ	General Dynamics Mission Systems : Orlando, FL	9.371	-		4.285	Dec 2015	2.550	Dec 2016	-		2.550	Continuing	Continuing	Continuing
CTIA	C/CPFF	Lockheed Martin Inc. : Orlando, FL	57.091	-		-		-		-		-	0	57.091	57.091
I-MILES	C/IDIQ	General Dynamics Mission Systems : Orlando, FL	0.000	-		-		1.041	Mar 2017	-		1.041	Continuing	Continuing	Continuing
CTC-IS	C/IDIQ	General Dynamics Mission Systems : Orlando, FL	29.563	2.918	Apr 2015	2.328	Mar 2016	2.232	Jan 2017	-		2.232	Continuing	Continuing	Continuing
CTC-IS	C/IDIQ	TBS : TBS	0.000	-		-		3.322	Jul 2017	-		3.322	Continuing	Continuing	Continuing
HITS	C/FFP	Riptide : Orlando, FL	1.379	-		-		-		-		-	0	1.379	1.379
HITS	C/IDIQ	General Dynamics Mission Systems : Orlando, FL 32826	1.625	-		1.550	Jan 2016	1.683	Jan 2017	-		1.683	Continuing	Continuing	Continuing
MSTC Development	C/FP	Multiple : Various	3.034	-		0.945	Mar 2016	0.530	Jan 2017	-		0.530	Continuing	Continuing	Continuing
EST Development	C/FP	Cubic Simulation Systems, Inc. : Orlando, FL 32809-3813	1.528	-		-		-		-		-	0	1.528	1.528
EST	C/FP	Nova Technologies : Panama City, FL 32404-6747	0.609	-		-		-		-		-	0	0.609	0.609
EST Enhanced Capabilities	C/FFP	Meggitt Training Systems, Inc. : Suwanee, GA 30024-1247	0.000	-		1.186	Apr 2016	1.002	Mar 2017	-		1.002	Continuing	Continuing	Continuing

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army											Date: February 2016				
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>					Project (Number/Name) 241 / <i>Nstd Combined Arms</i>						

Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
EST Enhanced Capabilities Adaptive Marksmanship and Intelligent Tutoring	C/FFP	Dignitas Technologies : Orlando, FL 32817	0.776	-		-		-		-		-	0	0.776	0.776
CFFT Enhanced Joint Fires Observer (JFO) Training and Certification Requirements	C/IDIQ	Nova Technologies : Panama City, FL 32404-6747	0.000	-		-		1.314	Mar 2017	-		1.314	Continuing	Continuing	Continuing
LVC-IA Development	C/CPFF	Cole Engineering Services, Inc : Orlando, FL	29.822	-		-		-		-		-	0	29.822	29.822
LVC-IA Continued Development	C/CPFF	TBS : TBS	0.000	-	5.432	Apr 2016	4.429	Apr 2017		-		4.429	Continuing	Continuing	Continuing
Target Modernization	C/IDIQ	General Dynamics Mission Systems : Orlando, FL	4.671	-	2.005	Mar 2016	2.054	Mar 2017		-		2.054	Continuing	Continuing	Continuing
Congressional Add Center of Excellence for Military Operations in Urban Terrain and Cultural Trn	C/FP	Multiple : Various	2.996	-		-		-		-		-	0.000	2.996	2.996
ETC-IS	SS/CPFF	General Dynamics C4 Systems : Orlando, FL 32826	4.836	-		-		-		-		-	0	4.836	4.836
CSF2	TBD	Multiple : Various	0.000	0.020		0.039		-		-		-	0.000	0.059	0.059
Subtotal			282.500	2.938		17.770		20.157		-		20.157	-	-	-

Remarks
FY16 LVC-IA Continued Development Effort planned for award on 30 Apr 16.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>
--	--	---

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
OneTESS	Various	Various : Orlando, FL	6.596	-		-		-		-		-	0	6.596	6.596
OneTESS	Various	Various : Various	0.262	-		-		-		-		-	0	0.262	0.262
CTIA	Various	Various : Various	12.844	-		-		-		-		-	0	12.844	12.844
Target Modernization	Various	Various : Various	0.192	-		-		-		-		-	0	0.192	0.192
CSF2	TBD	Multiple : Various	0.000	0.047		0.158		-		-		-	0	0.205	0.228
Subtotal			19.894	0.047		0.158		-		-		-	0.000	20.099	20.122

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
OneTESS Development & Test	Various	Multiple : Orlando, FL	4.162	-		-		-		-		-	0	4.162	4.162
OneTESS Test Support	Various	Multiple : Orlando, FL	1.280	-		-		-		-		-	0	1.280	1.280
HITS	Various	Various : Orlando, FL	0.740	-		-		-		-		-	0.000	0.740	0.740
LVC-IA Test Support	Various	Multiple : Orlando, FL	4.169	-		1.133	Apr 2016	2.199	Apr 2017	-		2.199	Continuing	Continuing	Continuing
IEDES	Various	Multiple : Orlando, FL	0.519	-		-		-		-		-	0	0.519	0.519
CSF2	TBD	Multiple : Various	0.000	0.348		0.753		-		-		-	0.000	1.101	1.101
Subtotal			10.870	0.348		1.886		2.199		-		2.199	-	-	-

Remarks
FY16 LVC-IA Test support effort planned for award on 30 Apr 16.

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	334.165	5.700	24.214	27.769	-	27.769	-	-	-

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>
--	--	---

Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
CTIA Development and Architectural Evolution																												
CTC IS Development																												
I-MILES Development																												
HITS Development																												
MSTC MT-C2 Development																												
MSTC Trainer Developments																												
EST Enhanced Capabilities Adaptive Marksmanship and Intelligent Tutoring																												
EST Enhanced Capabilities																												
CFFT Enhanced Joint Fires Observer (JFO) Training and Certification Requirements																												
LVC-IA - Version 2 (Development, Integration, Demonstration and Testing)																												
LVC-IA - Version 3 (Development, Integration, Demonstration and Testing)																												
LVC-IA - Version 4 (Development, Integration, Demonstration and Testing)																												
Target Modernization Development																												

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>
--	--	---

Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
CSF2																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
CTIA Development and Architectural Evolution	1	2012	4	2021
CTC IS Development	1	2010	4	2021
I-MILES Development	2	2017	4	2021
HITS Development	3	2012	4	2021
MSTC MT-C2 Development	2	2016	1	2018
MSTC Trainer Developments	2	2017	4	2021
EST Enhanced Capabilities Adaptive Marksmanship and Intelligent Tutoring	3	2015	2	2016
EST Enhanced Capabilities	3	2016	2	2018
CFFT Enhanced Joint Fires Observer (JFO) Training and Certification Requirements	2	2017	3	2018
LVC-IA - Version 2 (Development, Integration, Demonstration and Testing)	1	2014	3	2016
LVC-IA - Version 3 (Development, Integration, Demonstration and Testing)	4	2016	2	2018
LVC-IA - Version 4 (Development, Integration, Demonstration and Testing)	3	2018	2	2020
Target Modernization Development	1	2016	4	2021
CSF2	1	2015	4	2016

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604715A / Non-System Training Devices - Eng Dev				Project (Number/Name) 573 / Program Executive Office Simulation, Training Spt			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
573: Program Executive Office Simulation, Training Spt	-	3.075	2.941	3.005	0.033	3.038	3.100	3.169	3.236	3.385	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

.

A. Mission Description and Budget Item Justification

In support of Non-System Training Devices (NSTD), this project funds the US Army Program Executive Officer Simulation, Training and Instrumentation (PEO STRI) core operations supporting development of Army training devices and simulations by PEO STRI project managers (PM TRADE, PM ITTS, and PM ITE) FY 2017 funds labor in support of PEO operations.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Government Program Management to support PEO STRI.	3.075	2.941	3.005	0.033	3.038
Description: Government Program Management to support PEO STRI.					
FY 2015 Accomplishments: Government Program Management to support PEO STRI labor for project managers in PM TRADE, PM ITTS, and PM ITE.					
FY 2016 Plans: Government Program Management to support PEO STRI labor for project managers in PM TRADE, PM ITTS, and PM ITE.					
FY 2017 Base Plans: Government Program Management to support PEO STRI labor for project managers in PM TRADE, PM ITTS, and PM ITE.					
FY 2017 OCO Plans: Base-to-OCO buyback					
Accomplishments/Planned Programs Subtotals	3.075	2.941	3.005	0.033	3.038

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 573 / <i>Program Executive Office Simulation, Training Spt</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics N/A		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016			
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604715A / Non-System Training Devices - Eng Dev				Project (Number/Name) 573 / Program Executive Office Simulation, Training Spt							
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Government Program Management- PEO STRI	Various	PEO STRI : Orlando, FL	18.217	3.075		2.941		3.005		0.033		3.038	Continuing	Continuing	Continuing
Subtotal			18.217	3.075		2.941		3.005		0.033		3.038	-	-	-
			Prior Years	FY 2015	FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			18.217	3.075		2.941		3.005		0.033		3.038	-	-	-
Remarks															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 573 / <i>Program Executive Office Simulation, Training Spt</i>
--	--	--

Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
Government Program Management	Government Program Management																											

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 573 / <i>Program Executive Office Simulation, Training Spt</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Government Program Management	1	2010	1	2022