Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604715A: Non-System Training Devices - Eng Dev

DATE: February 2010

BA 5: Development & Demonstration (SDD)

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	36.826	30.052	27.756	0.000	27.756	27.748	42.662	30.540	30.859	Continuing	Continuing
241: NSTD COMBINED ARMS	34.406	28.013	25.063	0.000	25.063	25.003	39.843	27.661	27.916	Continuing	Continuing
573: Program Executive Office Simulation, Training SPT	1.938	2.039	2.693	0.000	2.693	2.745	2.819	2.879	2.943	Continuing	Continuing
587: ARMY DEVELOP CTIA/TENA CAPABILITY	0.482	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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. Training devices and training simulations contribute to the modernization of the forces by enabling 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 colocation with other services facilitates joint training solutions in a common environment. FY11 funds significant development efforts on the Combat Training Center Instrumentation Systems (CTC-IS), One Tactical Engagement Simulation System (OneTESS), and further implementation of Live Training Transformation (LT2) through development of the Common Training Instrumentation Architecture (CTIA); enabling Joint training with the Joint Forces Command. Target Modernization initiates development of target system technologies which provide enhanced realism (look and behavior), threat/friend identification, and training performance feedback mechanisms. FY11 program funding will support system design, development, integration and demonstration of the Live, Virtual, Constructive Integrating Architecture (LVC-IA) Increment 1 capability to support DoD Training Transformation (T2) and Army Training Doctrine by providing the required integrated LVC mission rehearsal and training environment that allows Commanders, leaders, battle staffs & units to "train as they operate" as part of a Joint Task Force. FY11 Project 573 will provide for minimum PEO STRI core operations supporting development of training devices and simulations by PEO STRI Project Managers (PM TRADE, PM ITTS, PM CATT, PM Future Force (S) and PM Constructive Simulation).

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD) R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training Devices - Eng Dev

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	38.299	30.209	29.582	0.000	29.582
Current President's Budget	36.826	30.052	27.756	0.000	27.756
Total Adjustments	-1.473	-0.157	-1.826	0.000	-1.826
 Congressional General Reductions 		-0.157			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 		0.000			
 Congressional Directed Transfers 		0.000			
 Reprogrammings 	-0.511	0.000			
• SBIR/STTR Transfer	-0.962	0.000			
 Adjustments to Budget Years 	0.000	0.000	-1.826	0.000	-1.826

Change Summary Explanation

None required.

Exhibit R-2A, RDT&E Project Jus	Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				NOMENCLA A: Non-Syster		evices - Eng	PROJECT 241: NSTD COMBINED ARMS				
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
241: NSTD COMBINED ARMS	34.406	28.013	25.063	0.000	25.063	25.003	39.843	27.661	27.916	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project supports development of prototype training devices to support Combined Arms (Infantry, Armor, Aviation, Air Defense, Artillery, Engineer, Chemical, and Support troops) training and multi-system training within the Army, to include the Reserve Components. The One Tactical Engagement Simulation System (OneTESS) provides for an advanced, joint, collective, combined arms, live force-on-force training system using tactical weapon systems supported by a family of Training Aids, Devices, Simulations and Simulators (TADSS) that support up to brigade-level exercises, for every weapon and vehicle platform, at Homestation, Maneuver Combat Training Centers (MCTC), and deployed sites. The Common Training Instrumentation Architecture (CTIA) provides the common architecture framework for developing the Live Training Transformation (LT2) Product Line of live training systems supporting Army-wide Force-On-Force (FOF) and Force-On-Target (FOT) training requirements. CTIA is a spiral development, evolutionary acquisition program that continues to provide developmental support for the LT2 Product line in compliance with the DoD Test and Training Enabling Architecture (TENA). The Combat Training Centers (CTCs) provide high-fidelity live, virtual, and constructive brigade training rotations which prepare Brigade Combat Teams, Joint partners, and supporting units to deploy in support of Army Force Generation (ARFORGEN). Combat Training Center Instrumentation System (CTC IS) develops new data communications systems increasing tracking accuracy and coverage at the CTCs to provide greater training fidelity to training units. CTC IS also develops infrastructure to host OneTESS and FCS requirements. The Live, Virtual, Constructive Integrating Architecture (LVC-IA) provides net-centric linkage that collects, retrieves and exchanges data among LVC Training Aids, Devices, Simulations, and Simulators (TADSS) and Joint/Army Battle Command Systems leading to an LVC Integrated Training Environment (ITE). The LVC-IA defines "how" information is exchanged among LVC domains and Battle Command Systems. The LVC Integrating Architecture includes common LVC components such as Enterprise After Action Review (AAR), Command and Control (C2) Adapters, Terrain Databases, Multi-level Security, and Hardware/Software. The integration of Live, Virtual, and Constructive TADSS with Battle Command will enable larger, more robust, and rich training events at reduced cost. The end-state goal is an LVC Integrated Training Environment that approximates the Operating Environment and provides value-added training and mission rehearsal opportunities to Commanders and units. The Target Modernization provides for the initiation of the development of training target related technologies; focused on enhancing threat realism, engagement feedback, support of changes in doctrine/weapons, and alignment to CTIA Product-Line assets.FY11 funds significant development efforts on the Combat Training Center Instrumentation Systems (CTC-IS), One Tactical Engagement Simulation System (OneTESS), and further implementation of Live Training Transformation (LT2) through development of the Common Training Instrumentation Architecture (CTIA); enabling Joint training with the Joint Forces Command. Target Modernization initiates development of target system technologies which provide enhanced realism (look and behavior), threat/friend identification, and training performance feedback mechanisms. FY11 program funding will support system design, development, integration and demonstration of the Live, Virtual, Constructive Integrating Architecture (LVC-IA) Increment 1 capability to support DoD Training Transformation (T2) and Army Training Doctrine by providing the required integrated LVC mission rehearsal and training environment that allows Commanders, leaders, battle staffs & units to "train as they operate" as part of a Joint Task Force.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army	DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT		
2040: Research, Development, Test & Evaluation, Army	PE 0604715A: Non-System Training Devices - Eng	241: NSTD COMBINED ARMS		
BA 5: Development & Demonstration (SDD)	Dev			

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	22.997	8.320	7.399	0.000	7.399
FY09-FY11: Continues development of One Tactical Engagement Simulation System (One TESS). Refine systems architecture, develop Future System/Joint, Live/Virtual and Constructive solutions and integrate operational testing that supports the training and testing communities into current combat systems under development.					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #2	2.996	0.000	0.000	0.000	0.000
FY09: Center of Excellence for Military Operations in Urban Terrain and Cultural Training Add.					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training Dev	evices - Eng	PROJECT 241: NSTD	COMBINED A		
B. Accomplishments/Planned Program (\$ in Millions)	<u> </u>		1			
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans:						
FY 2011 OCO Flans. FY 2011 OCO						
Program #3 FY09-FY11: Continue development of CTIA to provide the common for development and fielding of the CTC, Integrated Military Operat (IMTS), HITS, and Digital Ranges Training System (DRTS) training FY 2009 Accomplishments: FY 2010 Plans: FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO	tions in Urbanized Terrain Training System	5.154	1.993	2.122	0.000	2.122
Program #4 FY10-FY11: Combat Training Center Instrumentation System (CTC the Range Communications Systems at the National Training Center (JRTC) and Joint Multinational Readiness Center (JMRC) increasing increase training fidelity for Brigade Combat Team rotations to better	r (NTC), Joint Readiness Training Center g tracking coverage and accuracy in order to	0.000	4.895	4.967	0.000	4.967

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
2040: Research, Development, Test & Evaluation, Army	PE 0604715A: Non-System Training Devices - Eng	241: <i>NSTD</i> (COMBINED A	RMS	
BA 5: Development & Demonstration (SDD)	Dev				
B. Accomplishments/Planned Program (\$ in Millions)					
			FY 2011	FY 2011	FY 2011
	FY 2009	FY 2010	Base	осо	Total
Controller (OC) voice communication systems at the NTC and JMRC ar	re unsupportable and present increasing				
risk to safety and the training mission.	e ansapportuere and present mercusing				
FY 2009 Accomplishments:					
FY 2009					
FY 2010 Plans:					
FY 2010					
FY 2011 Base Plans:					
FY 2011 Base					
FY 2011 OCO Plans:					
FY 2011 OCO					
D	0.000	5 102	0.000	0.000	0.000
Program #5	0.000	5.102	0.000	0.000	0.000
FY10: Exportable Training Capability-Instrumentation System (ETC-IS)					
development, integration, and testing of tracking capability, coverage an					
systems architecture to increase training fidelity for Brigade Combat Tea	am rotations to better prepare units for				
deployment.					
FY 2009 Accomplishments:					
FY 2009 Accomptisaments. FY 2009					
112007					
FY 2010 Plans:					
FY 2010					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training D Dev			COMBINED ARMS		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #6		0.211	0.000	0.000	0.000	0.000
FY09: Improvised Explosive Device Explosive Simulator (IEDES) - training against IED threats through simulated, but realistic battlefield						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #7		0.840	0.000	0.000	0.000	0.000
FY09: The Homestation Instrumentation Training System (HITS) prand testing of LT2 products into the HITS design.	rogram funding provided for the integration					
FY 2009 Accomplishments: FY 2009						

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army	nibit R-2A, RDT&E Project Justification: PB 2011 Army					DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE		PROJECT 241: NSTD COMBINED ARMS						
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	PE 0604715A: Non-System Training De Dev	evices - Eng							
B. Accomplishments/Planned Program (\$ in Millions)	120.								
				FY 2011	FY 2011	FY 2011			
		FY 2009	FY 2010	Base	осо	Total			
FY 2010 Plans:									
FY 2010									
FY 2011 Base Plans:									
FY 2011 Base									
FY 2011 OCO Plans:									
FY 2011 OCO									
Program #8		0.466	0.000	0.000	0.000	0.000			
FY09: Developed within the Virtual Patient System (VPS) an effective Tet capability and a Medical Training Evaluation and Review (MeTER) System									
FY 2009 Accomplishments: FY 2009									
F1 2009									
FY 2010 Plans: FY 2010									
FT 2010									
FY 2011 Base Plans:									
FY 2011 Base									
FY 2011 OCO Plans:									
FY 2011 OCO									
Program #9		1.742	0.000	0.000	0.000	0.000			

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training De	g Devices - Eng PROJECT 241: NSTD		Γ O COMBINED ARMS		
B. Accomplishments/Planned Program (\$ in Millions)			'			
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY09: Engagement Skills Trainer 2000 (EST) weapon enhancement devigun optics, call for and adjust indirect fires, vehicle skate ring and pedes thermal weapon sights.						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #10		0.000	6.973	7.999	0.000	7.999
FY10-FY11: Develop system, design, development, integration and den Constructive Integrating Architecture (LVC-IA) Increment 1 capability.						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training Devices - Eng Dev	PROJECT 241: NSTD	COMBINED A	RMS	
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO					
Program #11	0.00	0.000	2.576	0.000	2.576
FY11: Target Modernization initiates development of target system technicalism (look and behavior), threat/friend identification, and training performance Modernization initiates integration with Live Training Transformation (L(LVC) simulation interoperability. FY 2009 Accomplishments:	formance feedback mechanisms. Target				
FY 2009 FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #12	0.00	0.730	0.000	0.000	0.000
FY10: Small Business Innovative Research/Small Business Technology	Transfer Programs.				
FY 2009 Accomplishments: FY 2009					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army	DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY	ON/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT			
2040: Research, Development, Test & Evaluation, Army	PE 0604715A: Non-System Training Devices - Eng	241: <i>NSTD</i> (COMBINED ARMS	
BA 5: Development & Demonstration (SDD)	Dev			

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

	FY	2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
	Accomplishments/Planned Programs Subtotals	34.406	28.013	25.063	0.000	25.063

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

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	<u>OCO</u>	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: OPA3, Appropriation	298.298	336.451	297.200	28.624	325.824	289.193	299.825	310.782	320.806	Continuing	Continuing
NA0100 Training Devices, Non-											
System											
• Ord. #2: OPA3, Appropriation	36.459	83.094	23.400	0.000	23.400	139.479	125.354	148.729	125.329	Continuing	Continuing
MA6601 CTC Support											

D. Acquisition Strategy

Competitive development efforts based on performance specifications.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604715A: Non-System Training Devices - Eng

Dev

PROJECT

241: NSTD COMBINED ARMS

Product Development (\$ in Millions)

				FY	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OneTESS	C/CPFF	General Dynamics Fairfax, VA	91.796	6.275		6.658		0.000		6.658	Continuing	Continuing	0
CTIA	C/CPFF	Lockheed Martin Inc. Orlando, FL	52.358	0.000		0.000		0.000		0.000	Continuing	Continuing	0
CTIA - 2	С	TBS Location could not be determined.	0.000	1.591		1.729		0.000		1.729	Continuing	Continuing	0
CTC IS	С	TBS Location could not be determined.	0.000	4.465		4.518		0.000		4.518	Continuing	Continuing	0
ETC IS	C/FFP	Inter-Coastal Electronics Inc. Mesa, AZ	0.000	4.938		0.000		0.000		0.000	Continuing	Continuing	5.104
HITS	C/FFP	Riptide Oviedo, FL	1.379	0.000		0.000		0.000		0.000	Continuing	Continuing	1.379
MSTC	C/Various	Multiple Location could not be determined.	0.436	0.000		0.000		0.000		0.000	Continuing	Continuing	.586
EST 2000 Weapon Enhancement Development	C/FFP	Cubic Simulation Systems Division Orlando, Fl	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	1.648
LVC-IA Development	С	TBS Location could not be determined.	0.000	5.572		6.008		0.000		6.008	Continuing	Continuing	0
Target Modernization	С	TBS	0.000	0.000		2.221		0.000		2.221	Continuing	Continuing	2.274

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

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R-1 ITEM NOMENCLATURE

PE 0604715A: Non-System Training Devices - Eng

Dev

PROJECT

241: NSTD COMBINED ARMS

Product Development (\$ in Millions)

				FY :	2010		2011 ase	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Location could not be determined.											
Congressional Add Center of Excellence for Military Operations in Urban Terrain and Cultural Trn	C/Various	Multiple Location could not be determined.	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	145.969	22.841		21.134		0.000		21.134			10.991

Remarks

Support (\$ in Millions)

				FY	2010	FY 2 Ba	2011 ase	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OneTESS	С	Various Location could not be determined.	5.275	0.314		0.322		0.000		0.322	Continuing	Continuing	5.939
CTIA	С	Various Location could not be determined.	10.176	0.402		0.393		0.000		0.393	Continuing	Continuing	0
Target Modernization	С	Various Location could not be determined.	0.000	0.000		0.082		0.000		0.082	Continuing	Continuing	0

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604715A: Non-System Training Devices - Eng

Dev

PROJECT

241: NSTD COMBINED ARMS

Support (\$ in Millions)

				FY	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	15.451	0.716		0.797		0.000		0.797			5.939

Remarks

Test and Evaluation (\$ in Millions)

				FY	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OneTESS Development and Test	С	Multiple Location could not be determined.	2.554	0.370		0.309		0.000		0.309	Continuing	Continuing	0
IEDES	С	Multiple Location could not be determined.	0.308	0.000		0.000		0.000		0.000	Continuing	Continuing	.308
HITS	C/Various	Multiple Location could not be determined.	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	.740
LVC-IA Test Support	C/Various	Multiple Location could not be determined.	0.000	0.362		0.923		0.000		0.923	Continuing	Continuing	0
		Subtotal	2.862	0.732		1.232		0.000		1.232			1.048

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604715A: Non-System Training Devices - Eng

Dev

PROJECT

241: NSTD COMBINED ARMS

Management Services (\$ in Millions)

				FY	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OneTESS Program Management	C/Various	PEO STRI Orlando, FL 32826	5.494	1.361		0.110		0.000		0.110	Continuing	Continuing	6.843
CTC IS Program Management	C/Various	PEO STRI Orlando, FL 32826	0.000	0.430		0.449		0.000		0.449	Continuing	Continuing	0
ETC IS Program Management	C/Various	PEO STRI Orlando, FL 32826	0.000	0.164		0.000		0.000		0.000	Continuing	Continuing	.164
HITS Program Management	C/Various	PEO STRI Orlando, FL 32826	0.300	0.000		0.000		0.000		0.000	Continuing	Continuing	.400
EST 2000 Program Management	C/Various	PEO STRI Orlando, FL 32826	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	.095
LVC-IA Program Management	C/Various	PEO STRI Orlando, FL 32826	0.000	1.039		1.068		0.000		1.068	Continuing	Continuing	0
Target Modernization	C/Various	PEO STRI Orlando, FL	0.000	0.000		0.273		0.000		0.273	Continuing	Continuing	0
MSTC Program Management	C/Various	PEO STRI Orlando, FL 32826	0.021	0.000		0.000		0.000		0.000	Continuing	Continuing	.343
SBIR/STTR	С	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.730		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	5.815	3.724		1.900		0.000		1.900			7.845

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0604715A: Non-System Training Devices - Eng	241: <i>NSTD</i> (COMBINED ARMS
BA 5: Development & Demonstration (SDD)	Dev		

	Total Prior Years Cost	FY 2010	FY 2	FY 2	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	170.097	28.013	25.063	0.000	25.063			25.823

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604715A: Non-System Training Devices - Eng

Dev

PROJECT

241: NSTD COMBINED ARMS

		FY	200	9	F	Y 2	201	0	I	Y 2	201	1	I	FY :	201	2	1	FY 2	201	3	I	FY 2	2014	1	F	FY 2	2015	5
	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
OneTESS MS C											#																	
CTIA Version 2.1			#																									
CTIA Version 2.2							#																					
CTIA Version 2.3											#																	
CTC IS Development				#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
ETC IS (Phase 2) Development & Testing					#	#	#																					
EST 2000 Weapon Enhancement Development	#	#	#																									
LVC-IA - Increment 1 - EMD				#	#	#	#	#	#	#	#																	
Target Modernization Development								#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0604715A: Non-System Training Devices - Eng	241: <i>NSTD</i> (COMBINED ARMS
BA 5: Development & Demonstration (SDD)	Dev		

Schedule Details

	St	art	En	d
Event	Quarter	Year	Quarter	Year
OneTESS MS C	3	2011	3	2011
CTIA Version 2.1	3	2009	3	2009
CTIA Version 2.2	3	2010	3	2010
CTIA Version 2.3	3	2011	3	2011
CTC IS Development	4	2009	3	2015
ETC IS (Phase 2) Development & Testing	1	2010	3	2010
EST 2000 Weapon Enhancement Development	1	2009	3	2009
LVC-IA - Increment 1 - EMD	4	2009	3	2011
Target Modernization Development	4	2010	3	2015

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army									DATE: February 2010			
2040: Research, Development, Test & Evaluation, Army				PE 0604715A: Non-System Training Devices - Eng 573: Pr				PROJECT 573: Program Training SP	Program Executive Office Simulation,			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost	
573: Program Executive Office Simulation, Training SPT	1.938	2.039	2.693	0.000	2.693	2.745	2.819	2.879	2.943	Continuing	Continuing	
Quantity of RDT&E Articles												

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 training devices and simulations by PEO STRI project managers (PM TRADE, PM ITTS, PM CATT, PM Constructive Simulation and PM Future Force.) FY11 funds labor in support of PEO operations.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	1.550	1.599	2.693	0.000	2.693
FY09-FY11: Continues to support PEO STRI labor for project managers in PM TRADE, PM ITTS, PM CATT, PM Constructive Simulation and PM Future Force (Simulation).					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training De Dev	PROJECT 573: Program Executive Office Simulation, Training SPT				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #2		0.388	0.383	0.000	0.000	0.000
FY09-FY10: Public Law mandated the Army track FCS related work for represents salary dollars for three Department of the Army Civilians for the simulation systems to support the Army Future Combat System.						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #3		0.000	0.057	0.000	0.000	0.000
FY10: Small Business Innovative Research/Small Business Technology T	Fransfer Program					
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						

DATE: February 2010

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training De	PE 0604715A: Non-System Training Devices - Eng 573: Progra			am Executive Office Simulation,			
B. Accomplishments/Planned Program (\$ in Millions)								
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
FY 2011 OCO Plans: FY 2011 OCO								
	Accomplishments/Planned Programs Subtotals	1.938	2.039	2.693	0.000	2.693		

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

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

N/A

D. Acquisition Strategy

Not Applicable.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army									DATE: February 2010			
APPROPRIATION/BUDGET ACTI 2040: Research, Development, Test & E BA 5: Development & Demonstration (search, Development, Test & Evaluation, Army PE 0604715A: Non-System Training D			_	evices - Eng	PROJECT 587: ARMY DEVELOP CTIA/TENA CAPA						
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost	
587: ARMY DEVELOP CTIA/TENA CAPABILITY	0.482	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
Quantity of RDT&E Articles												

A. Mission Description and Budget Item Justification

This project funds the Joint NonKenetic Effects Model (JNEM)-Joint Conflict and Tactical Simulation (JCATS) Interoperability to implement a robust and stable interface between the JNEM and JCATS model. Exercise software developed and upgraded is valid for training and includes all items approved by the Exercise Director and Commanders Training Objectives. Implementation of a JNEM-JCATS interface contributes to numerous mitigation issues: capability to provide training feedback in Information Operations (IO), capability to provide improved Host Nation Representation, capability to plan Human Intelligence (HUMINT), capability to incorporate Non-Government Organizations (NGO), Private Voluntary Organizations (PVO), Multi-National Corporations (MNC), and US Forces Civil Affairs Higher Headquarters that Contribute to Stable Operations, and capability to adequately replicate Other Government Agency (OGA) interaction with the Brigade Combat Team Staff.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	0.482	0.000	0.000	0.000	0.000
FY09: Completed Development of JNEM for training.					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					

DATE: February 2010

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training De	PE 0604715A: Non-System Training Devices - Eng			TIA/TENA CA	APABILITY
B. Accomplishments/Planned Program (\$ in Millions)			,			
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO						
	Accomplishments/Planned Programs Subtotals	0.482	0.000	0.000	0.000	0.000

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

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.