

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

## BUDGET ACTIVITY

### 5 - System Development and Demonstration

## PE NUMBER AND TITLE

0604□15A - Non-System Training Devices - Eng Dev

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	68860	49615	61090	124134	73096	43417	23213	18170	Continuing	516981
241 NSTD COMBINED ARMS	67340	47216	59154	122145	71054	41362	21126	16066	Continuing	499628
573 STRICOM/NAWCTSD SUPPORT	1520	2399	1437	1480	1533	1545	1578	1596	Continuing	14309
587 ARMY DEVELOP CTIA/TENA CAPABILITY	0	0	499	509	509	510	509	508	0	3044

**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 help to modernize the forces through force multipliers that improve combat effectiveness by providing realistic training. 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 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. PEO STRI's unique geographic colocation with other services facilitates joint training solutions in a common environment. FY06/07 funding supports a more active presence in this effort.

In FY06 and FY07, the Non-System Training Devices, 241 project line will develop 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. There is an increased effort to replace the instrumentation system at the National Training Center (NTC), Ft. Irwin, CA and at the Joint Readiness Training Center (JRTC), Ft. Polk, LA with a system that meets the Army's existing and future, advanced collective training objectives. This is a complete modernization of these two systems, leveraging advanced technology using a modular concept. FY04 initiated the development of One Tactical Engagement Simulation System. That development effort increases through FY07 to provide realistic force-on-force training for weapon systems that are not direct fire and maximizes embedded training capability where possible. In FY06 and FY07, PEO STRI/NAWCTSD SUPT, 573 project line 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).

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	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	51694	44311	59063
Current Budget (FY 2006/2007 PB)	49615	61090	124134
Total Adjustments	-2079	16779	65071
Net of Program/Database Changes			
Congressional Program Reductions	-751		
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-1328		
Adjustments to Budget Years		16779	65071

FY 06/07 increases funding to support a more active presence for the Combat Training Center programs and the One Tactical Engagement Simulation System program. This acceleration responds to a requirement to provide combined arms training and multi-system training within the Army to meet existing and future, advanced collective training objectives. Funds provide complete modernization of combat training instrumentation systems and leverages advanced technology using a modular concept. The One Tactical Engagement Simulation System effort increases to provide realistic force-on-force training for weapon systems that are not direct fire and maximizes embedded training capabilities where possible.

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## PROJECT

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COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
241 NSTD COMBINED ARMS	67340	47216	59154	122145	71054	41362	21126	16066	Continuing	499628

**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.

Corps Battle Simulation (CBS) is the Army's current command and staff training simulation at the corps/division level. CBS is the cornerstone model of the Joint Training Confederation (JTC) and the essential Brigade to Corps piece of the first two versions of the Army Constructive Training Federation (ACTF). Tactical Simulation (TACSIM) is the Army's current primary tactical intelligence module for constructive simulation and the intelligence piece of the ACTF until the Warfighters' Simulation replaces TACSIM. TACSIM also supports the JTC. Combat Service Support/Training Simulation System (CSS/TSS) provides logistics functions in support of warfighter exercises. Funding for CSS/TSS was received through FY04. The One Tactical Engagement Simulation System (One TESS) provides for an advanced, joint, collective, combined arms, live 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, including all Battlefield Operating Systems, at Homestation, Maneuver Combat Training Centers (MCTC), and deployed sites. OH-58D TESS will provide a live force-on-force training capability for OH-58D. The TESS will leverage existing technology used on the Longbow TESS. OH-58D TESS will use GEO-Pairing and laser engagement. and will provide a OneTESS like capability. The National Training Center (NTC) and the Joint Readiness Training Center (JRTC) Objective Instrumentation System (OIS) provides a completely digital based system for full tactical system connectivity and High Level Architecture (HLA) compatibility. This program will develop the instrumentation necessary to bring the existing Military Operations in Urban Terrain (MOUT) sites to an instrumented maneuver capability. When integrated with the Combat Training Center (CTC) OIS it will provide automated data collection and feedback, command and control of the MOUT exercises, and an interactive target system to support a brigade-level maneuver task force. The system provides the observer/controllers the ability to monitor unit approach, fight through and departure maneuver activities in real time and select segments to record for after action reviews. The Instrumented MOUT provides live fire and force-on-force exercise management and support. The NTC Range Data Measurement System (NTC RDMS) Frequency Conversion develops the architecture to resolve the frequency usage conflict at NTC. The CMTC enhancements were completed in FY04. The Aerial Weapon Scoring System (AWSS) is an air-to-ground scoring system designed specifically to support U.S. Army attack helicopter training. AWSS provides near real time scoring results of live fire exercises conducted from attack helicopters firing caliber .50, 7.62, 20 & 30 millimeter projectiles and 2.75 inch rockets. AWSS also scores simulated Hellfire missile engagements for helicopters using the Hellfire Training Missile. The New Generation Army Targetry System (NGATS) program is a spiral developmental evolutionary acquisition program that continues to provide the development and planning to address shortcomings in non-NGATS targetry as well as emerging weapon system targetry requirements and technology insertion. The Basic Electronics Maintenance Trainer (BEMT) program supports the basic electronics training of missile electronics repair, test, measurements, and diagnostics for Redstone Arsenal and Fort Gordon.

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In FY06/07, this project funds development of limited enhancements to Corps Battle Simulation and TACSIM to ensure training relevance until the system is replaced with objective system, continued development of NGATS, significant development efforts on OneTESS, and further implementation of Live Training Transformation through development of the Common Training Instrumentation Architecture (CTIA); enabling Joint training with the Joint Forces Command through modernization programs including the Objective Instrumentation Systems (OISs) for the Maneuver CTCs, Homestations, Military Operations in Urban Terrain (MOUT), Digital Multi-Purpose Range Complexes (DMPRCs), and Homestation Instrumentation Training System (HITS). These systems provide integrated Live, Virtual, and Constructive training environments and tools in support of the Contemporary Operating Environment.

<b>Accomplishments/Planned Program</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
FY04-FY07: Continue development, installation, integration and testing of Technology Capability Groupings (TCG) for both the NTC-OIS and JRTC-OIS. The NTC Maneuver MOUT will initiate design efforts in FY 06 and continue with integration and testing in FY 07. Continue development of CTIA V1.3 to provide the common architecture for the CTC, MOUT, and DMPRC training instrumentation programs. Continue renovation of the Range Data Measurement System and development of training modules necessary for interoperability with the Army Battle Command Systems (ABCS). CMTC OCCS, RDMS, and SINCGARS training infrastructure is in the final acceptance test phase.	50486	19191	31552	64004
FY06: OH-58D TESS will provide a prototype TESS set, pursue air worthiness review, CTC integration, and proof of principle.	0	0	310	0
FY04-FY07: Continue to develop limited CBS enhancements and provide support to ACTF functionality and integration.	6257	5912	6856	7953
FY04-FY07: Continue NGATS program development and planning for weapon system targetry requirements. Increment I will correct shortcomings in non-NGATS target systems' reliability, availability, maintainability, supportability, interoperability, and deployability. Increment II and future increments will address emerging weapon systems targetry requirements and technology insertion.	1771	2018	2512	1522
FY04: Developed limited enhancements to Combat Service Support/Training Simulation System (CSS/TSS).	743	0	0	0
FY04-FY07: Continue development of One Tactical Engagement Simulation System (One TESS). Refine systems architecture, develop FCS/Joint, Live/Virtual and Constructive solutions and integrate operational testing and embed into current combat systems under development.	3633	17580	14486	43736
FY06-FY07: Develop limited Tactical Simulation (TACSIM) enhancements to support ACTF and provide TACSIM security accreditation.	1442	0	2643	2641
FY04: Develop Live Virtual Constructive Integration Architecture (LVC-IA) and concept development to provide Joint Seamless L-V-C Army Interoperability.	2567	1565	0	0

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## Accomplishments/Planned Program (continued)

FY04: Completed evaluation for Basic Electronics Maintenance Trainer (BEMT) computerized instructional devices with the capability for computer based instruction and hands-on practical exercise training.

FY05: Initiate development of short range scoring systems which can score 2.75 inch training rockets from 800-2500 meters from the existing Aerial Weapon Scoring System (AWSS).

FY06: Develop intra-Tactical Operations Center (TOC) ABCS Collection capability for the Digital AAR Tool (DAART) at the MCTC's

FY07: HITS program. Initiate development of interfaces (CTIA) and Integration of Live, Virtual and Constructive Simulation into standardized Army C4I system. Develop interfaces for transitioning program capability to secret high security classification.

	FY 2004	FY 2005	FY 2006	FY 2007
Totals	67340	47216	59154	122145

## B. Other Program Funding Summary

	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA3, Appropriation NA0100 Training Devices, Non-System	304812	307155	184528	249869	191419	221303	187514	186804	Continuing	Continuing
OPA3, Appropriation MA6601 CTC Support	41512	90321	60811	37996	78139	33463	31646	1284	Continuing	Continuing

C. Acquisition Strategy:Competitive development efforts based on performance specifications.

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
5 - System Development and Demonstration					0604□15A - Non-System Training Devices - Eng Dev					241		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . CBS Development	C/FFP	JPL, Cal Tech, Pasadena, CA	38299	5105	1-3Q	5712	1-3Q	6726	1-3Q	Continue	Continue	Continue
b . TACSIM Enhancement Development	C/CPFF	Northrop Grumman, Orlando, FL	1033	0		1887	1-3Q	1866	1-3Q	Continue	Continue	Continue
c . CSS/TSS Upgrade Development	Various	Multiple	515	0		0		0		0	515	515
d . NGATS	T & M	AMCOM, Redstone Arsenal, AL	5732	1419	1Q	1785	1Q	1081	1Q	Continue	Continue	Continue
e . NTC-OIS	CPAF	Lockheed Martin Corp, Orlando, FL	63498	12242	1-3Q	15716	2Q	23719	2Q	Continue	115175	Continue
f . JRTC-OIS	CPAF	Lockheed Martin Corp, Orlando, FL	0	0		5636	2Q	28682	2Q	Continue	Continue	Continue
g . NTC-MOUT	TBS	TBS	0	0		2400	2Q	1680	2Q	Continue	Continue	Continue
h . CTIA	C/FFP	Lockheed Martin Inc., Orlando, FL	31452	3461	1-3Q	3260	1-2Q	5392	1-2Q	Continue	Continue	Continue
i . One TESS	Various	Multiple	7481	15885	1-3Q	11155	1-2Q	40451	1-2Q	Continue	74972	Continue
j . CMTC OCCS, RDMS & Sincgars Infrastrucure	FFP	Multiple	4620	0		0		0		0	4620	7788

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604□15A - Non-System Training Devices - Eng Dev					PROJECT 241		
I. Product Development (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
k . NTC RDMS	FFP	SAIC, San Diego, CA	3903	0		0		0		0	3903	3812
l . VERTS	FFP	SAIC, San Diego, CA	2541	0		0		0		0	2541	2541
m . LVCIA	various	various	2067	1565		0		0		0	3632	2067
n . BEMT	SS/FFP	Nida Corp., Melbourne, FL	186	0		0		0		0	186	186
o . CTIA, NTC Fiber Optic	FFP	SAIC, San Diego, CA	13414	0		0		0		0	13414	13414
p . AWSS	FFP	MDS, Fullerton, CA	0	950	2Q	0		0		0	950	995
q . CBS Security	C/FFP	TITAN, Leavenworth, KS	0	230	1-3Q	240	1-3Q	245	1-3Q	Continue	Continue	Continue
r . TACSIM DEVELOPMENT	various	multiple	0	0		256	1-4Q	259	1-3Q	Continue	Continue	Continue
s . HITS	C/FFP		0	0		0		2289	1-4Q	0	2289	2289
t . MCTC DAART	C/FFP	TBD	0	0		795	1-2Q	0		0	795	795
u . OH-58D TESS	TBD	TBD	0	0		310	1-3Q	0		0	310	310
Subtotal:			174741	40857		49152		112390		Continue	Continue	Continue

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>					PE NUMBER AND TITLE <b>0604□15A - Non-System Training Devices - Eng Dev</b>					PROJECT <b>241</b>		
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . CBS Engineering & Technical Support	Multiple	Multiple	943	192	1-4Q	170	1-4Q	186	1-4Q	Continue	Continue	Continue
b . TACSIM Engineering, Technical and Administrative Support	Multiple	Multiple	169	0		174	1-4Q	177	1-4Q	Continue	Continue	Continue
c . CSS/TSS Engineering & Technical Support	Various	Multiple	120	0		0		0		0	120	120
d . NTC-OIS	Various	Multiple	10023	2188	1-4Q	2188	1-4Q	2174	1-4Q	Continue	Continue	Continue
e . JRTC-OIS	Various	Multiple	0	0		752	1-4Q	787	1-4Q	Continue	Continue	Continue
f . NTC-MOUT	Various	Multiple	0	0		100	1-4Q	70	1-4Q	Continue	Continue	Continue
g . ABCS Integration	C/FFP	Madison Res Corp, Orlando, FL	4064	0		0		0		0	4064	4512
h . NGATS	T&M	AMCOM, Redstone Arsenal, AL	2472	599	1Q	727	1Q	441	1Q	Continue	Continue	Continue
i . CTIA	Various	Various	4875	1300	1-4Q	1500	1-4Q	1500	1-4Q	Continue	Continue	Continue
j . Concept Exploration	Multiple	Various	1488	0		0		0		0	1488	1488



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BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
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II. Support Cost (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
k . OneTESS	Multiple	Various	3243	534	1-4Q	1219	1-4Q	1255	1-4Q	Continue	Continue	Continue
l . CMTC OCCS, RDMS and Sincgars Infrastructure	Multiple	Various	625	0		0		0		0	625	625
m . LVC-IA	Multiple	Various	500	0		0		0		0	500	500
Subtotal:			28522	4813		6830		6590		Continue	Continue	Continue
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . CBS Test Support	Various	Multiple	139	55	1-4Q	93	1-4Q	95	1-4Q	Continue	Continue	Continue
b . TACSIM Accreditation Testing	Various	Multiple	81	0		87	1-4Q	92	1-4Q	Continue	Continue	Continue
c . OneTESS Development and Test	MIPR	Multiple	0	820	1-4Q	1500	1Q	1400	1-4Q	Continue	Continue	Continue
Subtotal:			220	875		1680		1587		Continue	Continue	Continue

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BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604□15A - Non-System Training Devices - Eng Dev					PROJECT 241		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . CBS Program Management	Various	PEO STRI, Orlando, FL 32826	1433	330	1-4Q	641	1-4Q	701	1-4Q	Continue	Continue	Continue
b . TACSIM Program Management	Various	Multiple	159	0		239	1-4Q	247	1-4Q	Continue	Continue	Continue
c . CSS/TSS Program Management	Various	Multiple	108	0		0		0		0	108	137
d . BEMT program Management	MIPR	PEO STRI/NAVAIR, Orlando, FL	255	0		0		0		0	255	255
e . OneTESS Program Management	Various	PEO STRI, Orlando, FL 32826	1719	341	1-4Q	612	1-4Q	630	1-4Q	Continue	Continue	Continue
Subtotal:			3674	671		1492		1578		Continue	Continue	Continue
Project Total Cost:			207157	47216		59154		122145		Continue	Continue	Continue

# Schedule Profile (R4 Exhibit)

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Event Name	FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11												
	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													
(1) BEMT	1																																								
(2) NGATS Increment 1MS B, (3) NGATS Increment 1 IOC						2								3																											
(4) NGATS Increment 2 MS B, (5) NGATS Increment 2 IOC, (6) IOC																	4		6						5																
(7) One TESS MS B, (8) One TESS MS C									4						4																										
(9) NTC OIS Installation/Integration & Fielding										4																															
CBS/TACSIM Annual Version Releases for ACTF					5																																				

## Schedule Detail (R4a Exhibit)

**February 2005**

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<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
CBS/TACSIM Annual Version Releases for ACTF	1-3Q	1-3Q	1-3Q	1-3Q				
NTC OIS Installation/Integration & Fielding		2Q						
NTC OIS IOC					4Q			
JRTC OIS Installation/Integration & Fielding			1Q					
JRTC OIS IOC						4Q		
OneTESS Increment 1 MSB/MSB/IOC		4Q		4Q	4Q			
OneTESS Increment 2 MSB/MSB/IOC				4Q		4Q		4Q
OneTESS Increment 3 MSB/MSB						4Q		4Q
OneTESS Increment 4 MSB								4Q
NGATS Increment 1 IOC				2Q				
NGATS Increment 1 Milestone B		2Q						
NGATS Increment 2 IOC							3Q	
NGATS Increment 2 Milestone B					1Q			
NGATS Contract Award	1Q	1Q	1Q	1Q	1Q	1Q	1Q	1Q
CTIA Development Contract Award	1-2Q	1-2Q	1-2Q	1-2Q	1-2Q	1-2Q		
BEMT Equipment Delivery	3Q							
TACSIM Enhancement Development Contract Award	1Q		2Q	1Q				
AWSS Contract Award		2Q						

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COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
573      STRICOM/NAWCTSD SUPPORT	1520	2399	1437	1480	1533	1545	1578	1596	Continuing	14309
<p><b><u>A. Mission Description and Budget Item Justification:</u></b>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) Simulation. FY06 and 07 project funds labor in support of PEO operations.</p>										
<b><u>Accomplishments/Planned Program</u></b>							FY 2004	FY 2005	FY 2006	FY 2007
PEO STRI labor in support of project managers PM TRADE, PM ITTS, PM CATT, PM Constructive Simulation and PM (Future Force) Simulation.							1520	2399	1437	1480
Totals							1520	2399	1437	1480
<p><b><u>B. Other Program Funding Summary:</u></b> Not applicable for this item.</p>										
<p><b><u>C. Acquisition Strategy:</u></b>Not Applicable.</p>										

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COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
587 ARMY DEVELOP CTIA/TENA CAPABILITY	0	0	499	509	509	510	509	508	0	3044

**A. Mission Description and Budget Item Justification:** Not applicable for this item.

**Accomplishments/Planned Program** Not applicable for this item.

**B. Other Program Funding Summary:** Not applicable for this item.

**C. Acquisition Strategy:** Not applicable for this item.