

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY
5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE
0604780A - Combined Arms Tactical Trainer (CATT)

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	37742	18328	13645	0	0	0	0	0	0	0
571 CLOSE CBT TACT TRAINER	20784	7667	5009	0	0	0	0	0	0	0
582 SYNTHETIC ENVIR CORE	6458	10661	8636	0	0	0	0	0	0	0
585 AVIATION COMBINED ARMS TACTICAL TRAINER - WRAP	10500	0	0	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The Combined Arms Tactical Trainer (CATT) is a family of combined arms simulation systems designed to support the Army's simulation-based Combined Arms Training Strategy. The initial CATT system is the Close Combat Tactical Trainer (CCTT) which provides the underlying baseline (architecture, terrain data bases, after action review [AAR], semi-automated forces [SAF], and models/algorithms) for future CATT expansions, pre-planned product improvements and system enhancements. Synthetic Environment Core provides for the expansion of the Synthetic Environment baseline to include enhanced Aviation, Engineer, Fire Support, and Air Defense capabilities needed to support integration of hardware/simulators funded by System Program Managers. The second CATT system is the Aviation Combined Arms Tactical Trainer - Aviation Reconfigurable Manned Simulator (AVCATT-A) which provides the prototype suite of an Army aviation reconfigurable training system for both active and reserve components. CATT enables units, from crew to the battalion task force level, to conduct a wide variety of combat tasks on a realistic, interactive synthetic battlefield. CATT's combination of manned simulators and staff officer workstations enables units to train as a combined arms team in a cost effective manner. CATT reinforces the successes and corrects the shortcomings of the Simulator Network (SIMNET) and Aviation Network (AIRNET) demonstration programs executed by the Defense Advanced Research Projects Agency (DARPA). By practicing skills in CATT, units are able to make more effective use of scarce resources and costly live fire and maneuver exercises as well as train tasks deemed too hazardous to conduct in the field. Fielded in both fixed site and mobile/transportable versions, CATT enables both Active and Reserve component units to prepare for real world contingency missions. By being able to process a wide array of terrain data bases and modify the behavior of the computer generated opposing forces, CATT offers a virtually unlimited array of training options to support the Army's many regional contingency missions. The combination of tough field and live fire training and realistic simulation training in CATT is the catalyst to prepare soldiers and their leaders for the uncertainties they will face in an unpredictable world. This program line supports the Objective and Legacy to Objective transition paths of the Transformation Campaign Plan (TCP).

FY02 provides Pre-Planned Product Improvements to CCTT components and completion of the Synthetic Environment developments for the AVCATT-A operational requirements. These efforts improve readiness by providing more realistic collective training that will prepare the soldiers for the U.S. Army missions.

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	19775	18498	8881	0
Appropriated Value	19925	18498	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-533	0	0	
c. Omnibus or Other Above Threshold Reductions Inflation	-81	0	0	
d. Below Threshold Reprogramming	0	0	0	
e. Rescissions	-69	-170	0	
Adjustments to Budget Years Since FY2001 PB	18500	0	4764	
Current Budget Submit (FY 2002/2003 PB)	37742	18328	13645	0

Change Summary Explanation: Funding - FY 2000: A \$10500K WRAP funding increase was for AVCATT-A and \$8000K funding increase was for CCTT. Funding - FY 2002: An increase of \$4764K is for Comanche, Longbow upgrades to the Semi-Automated Forces, visual models, and control software, and inflation adjustment. Funding - FY 2003: An increase of \$2536K is for continued development of Synthetic Environment Core (SE Core) beyond AVCATT-A and for inflation adjustment.

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604780A - Combined Arms Tactical Trainer (CATT)					PROJECT 571	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
571 CLOSE CBT TACT TRAINER	20784	7667	5009	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: This program provides for engineering and manufacturing development (EMD) and pre-planned product improvements (P3I) for the Close Combat Tactical Trainer (CCTT) which will enhance readiness of both active and reserve component forces. The program develops a networked system of interactive computer driven simulators, emulators and semi-automated forces that replicate combat vehicles and weapon systems, combat support systems, combat service support systems, and command and control systems to create a fully integrated real-time collective task training environment. This trainer will allow soldiers to practice, repetitively, techniques that, if performed on real equipment, would be too hazardous, time-consuming and expensive. These trainers enhance realism and allow soldiers and units to learn tactical combat lessons on maneuver, command and control, and improved teamwork for increased survivability. The pre-planned product improvements provide CCTT an opportunity to enhance its capabilities as a tactical trainer as well as maintain concurrency with the structural changes that today's battleforce is experiencing.

The FY02 funding for the Close Combat Tactical Trainer will provide the U.S. Army with a Dismounted Infantry module which immerses the soldier into the fighting environment and keeps the system concurrent with the fielded weapon systems. This capability provides the soldiers the necessary training to prepare for the missions of the U.S. Army.

This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

FY 2000 Accomplishments

- 9729 Developed Training Support Packages (TSPs) to support structured approach to preparation for training exercises, continued High Level Architecture (HLA) compliance efforts, and began Pre-Planned Product Improvements (P3I) for After Action Reports (AAR) and Dismounted Infantry (DI) components of CCTT and other user prioritized P3I.
- 2415 Developed Korean terrain database.
- 80 Maintained support services to the program office.
- 560 Provided government program management, engineering, technical, contract and continuous operational evaluation support.
- 4957 Integrated Army Battlefield Command System (ABCS) into CCTT to allow training with Army Digital Command and Control Systems.
- 1776 Developed design change of computer operating system to reduce life cycle cost.

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PROJECT

571**FY 2000 Accomplishments (Continued)**

- 1267 Developed Bradley Fire Support Team Vehicle modification kit design.

Total 20784

FY 2001 Planned Program

- 6719 Develop additional Training Support Packages (TSPs), continue High Level Architecture (HLA) compliance efforts, Pre-Planned Product Improvements (P3I) for After Action Reports (AAR), and Dismounted Infantry (DI) components of CCTT, integration of PC Image Generator, and other user prioritized items.
- 80 Maintain support services to the program office.
- 640 Provide government program management, engineering, technical, contract and continuous operational evaluation support.
- 228 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)

Total 7667

FY 2002 Planned Program

- 4509 Begin developments for Second Generation Forward Looking Infrared (GEN II FLIR) sights for tanks and Bradley Fighting Vehicles and tank extended range munition (TERM). Continue development for product improvements for Dismounted Infantry (DI) module, high level architecture (HLA), and other prioritized items.
- 84 Maintain support services to the program office.
- 416 Provide government program management, engineering, technical, contract and continuous operational evaluation support.

Total 5009

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV	PE NUMBER AND TITLE 0604780A - Combined Arms Tactical Trainer (CATT)	PROJECT 571
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<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA3, Appropriation NA0170 SIMNET/CCTT	63709	41615	36783	0	0	0	0	0	0	0
Operation and Maintenance, Appro. 122015 Support of Oper. Testing (CCTT Portion)	1581	0	0	0	0	0	0	0	0	0

C. Acquisition Strategy: Competitive cost plus award fee contract for EMD phase. Competitive procurement against performance specifications as part of basic contract.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
P3I Software/Hardware Insertions	4Q	4Q	4Q	0	0	0	0	0
Kosovo Database Delivery	4Q			0	0	0	0	0
Korean Database Development Award	3Q			0	0	0	0	0
Korean Database Delivery			1Q	0	0	0	0	0

FY00 Milestones Completed

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PROJECT
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . CCTT EMD	C/CPAF/T&M/FFP	Lockheed/Martin Orlando, FL	206891	0		0		0	0	0	0	0
b . Pre-Planned Product Improvements (P3I)	C/CP	Lockheed/Martin Orlando, FL	21690	6719	1Q	4509	1Q	0	0	0	0	Continue
c . Database Development	BAA/CPFF	SAIC, Orlando, FL	4415	0		0		0	0	0	0	0
Subtotal:			232996	6719		4509		0		0	0	Continue

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Engineering and Technical Support	MIPRs/T&M	Various activities	30318	80	1Q	84	1Q	0	0	0	0	0
Subtotal:			30318	80		84		0		0	0	0

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

Remarks: Not Applicable

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Office Support	MIPR	STRICOM/NAWC-TSD, Orlando, FL	12054	640		416		0	0	0	0	0
b . STTR/SBIR			0	228		0		0	0	0	0	0
Subtotal:			12054	868		416		0		0	0	0

Project Total Cost:			275368	7667		5009		0		0	0	Continue
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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604780A - Combined Arms Tactical Trainer (CATT)				PROJECT 582		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
582 SYNTHETIC ENVIR CORE	6458	10661	8636	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: Synthetic Environment Core (SE Core) provides for the engineering, manufacturing, and development (EMD) enhancements to the Synthetic Environment baseline for virtual training in a Combined Arms Collective environment. The EMD will transform the current heavy force environment to support the transformation to light and medium force for virtual training. The program will provide terrain databases, aviation behaviors, Air Defense capabilities, natural effects (e.g., wind) that enable the Army, specifically the aviation community, to conduct collective training and aviation combined arms training in the virtual environment. SE Core will provide the Semi-Automated Forces (SAF) behaviors to represent the evolving structure, tactics, and procedures of the Army's digitized battlefield. SE Core will provide the additional aviation models to support aviation collective training, and will provide for extended environments to simulate the aviation weapon systems and communication particular to the aviation community. The program will provide for scenario development to support aviation combined arms and collective training and After Action Review of an exercise.

FY02 will complete the Aviation Synthetic Environment engineering design/development supporting the AVCATT-A Operational Requirement Document. This will improve readiness by allowing aviators to "train as they fight" with armor and infantry units on a digitized battlefield.

This system supports the Objective transition path of the Transformation Campaign Plan (TCP).

FY 2000 Accomplishments

- 4890 Initiated development of aviation semi-automated forces behaviors, an aviation terrain database, interoperability between aviation and ground simulations, and mission planning and controls for the AVCATT-A system. Initiated refinements to SE Core architecture.
- 1006 Initiated development of an After Action Review capability, training scenarios, and provisions for system High Level Architecture (HLA) compliance. Acquired development hardware to support software development
- 180 Maintained support services to program office.
- 382 Provided government program management, engineering, technical and contract support for the aviation effort and the refinement of the SE Core baseline.

Total 6458

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PROJECT

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FY 2001 Planned Program

- 6808 Continue development of aviation semi-automated forces behaviors, an aviation terrain database, interoperability between aviation and ground simulations, and mission planning and controls for the AVCATT-A system. Development and refinement of SE Core architecture.
- 2900 Continue development of the After Action Review (AAR) capability, training scenarios, and provide for system High Level Architecture (HLA) compliance.
- 200 Maintain support services to program office.
- 436 Provide Government Program management, engineering, technical, and contract support for the aviation effort and the refinement of the SE Core baseline.
- 317 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)

Total 10661

FY 2002 Planned Program

- 7808 Complete development of aviation semi-automated forces (SAF) behaviors, aviation terrain database, interoperability between aviation and ground simulations, and mission planning and controls for the AVCATT-A system. This will include SAF, Battlemaster Control Console and visual model upgrades for the Comanche tactics, techniques and procedures (TTP) tool and Longbow reconfigurable configuration. Complete the aviation refinements of SE Core architecture.
- 628 Provide government program management, engineering, technical, contract, and test support for SE Core refinements.
- 200 Maintain support services and government agency support to program office.

Total 8636

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

C. Acquisition Strategy: Engineering Manufacturing & Development (EMD) competitive contract against performance specification.

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<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Contract Award	1Q			0	0	0	0	0
Software Build 1		3Q		0	0	0	0	0
Software Build 2		4Q		0	0	0	0	0
Software Build 3			1Q	0	0	0	0	0
Software Build 4			2Q	0	0	0	0	0
IOTE			2Q	0	0	0	0	0
Comanche TTP Tool Software Build and Dev. Test			4Q	0	0	0	0	0
Longbow Software Build and Follow-On Test			4Q	0	0	0	0	0

FY00 Milestone Completed

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . SE Core	C/CPAF/FPI F/FFP	L-3Com (Raytheon Systems Co.) Arlington, TX	5896	9708	1Q	7808	1Q	0	0	0	0	0
Subtotal:			5896	9708		7808		0		0	0	0

Remarks: Raytheon Systems Co. has sold this part of their company to L-3Com.

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Engineering Services & Technical Support	C/FFP/T&M	Madison Research Orlando, FL	180	200	1Q	200	1Q	0	0	0	0	0
Subtotal:			180	200		200		0		0	0	0

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

Remarks: Not Applicable

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Office Support	MIPR	STRICOM/NAWC-TSD/HRED, Orlando, FL	382	436		628		0	0	0	0	0
b . STTR/SBIR			0	317		0		0	0	0	0	0
Subtotal:			382	753		628		0		0	0	0

Project Total Cost:			6458	10661		8636		0		0	0	0
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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604780A - Combined Arms Tactical Trainer (CATT)					PROJECT 585	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
585 AVIATION COMBINED ARMS TACTICAL TRAINER - WRAP	10500	0	0	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification: Aviation Combined Arms Tactical Trainer-Aviation Reconfigurable Manned Simulator (AVCATT-A) is an Army aviation training system for both the active and reserve components. This engineering, manufacturing, and development (EMD) effort will provide the first prototype suite of AVCATT-A equipment which consists of six (6) reconfigurable networked simulators supporting the AH-64A/D, UH-60A/L, CH-47D, and OH-58D platforms. Supporting roleplayer, semi-automated blue and opposing forces (SAF), and after action review (AAR) workstations are also provided as part of the suite. AVCATT-A will be a fully mobile system, capable of utilizing shore and generator power and is deployable worldwide.

AVCATT-A will permit various aviation units to conduct collective task training on a real-time, computerized battlefield in a combined arms scenario. Other required elements that are present on the modern, high intensity battlefield, such as the combat support and combat service support elements are an integral part of the simulation database. The terrain databases, aviation behaviors, Air Defense capabilities, and natural effects (e.g., wind) will be provided through the Synthetic Environment Baseline developed through the Synthetic Environment Core Program.

AVCATT-A is a key component to the Aviation Combined Arms Training Strategy and is designed to provide realistic, high intensity collective and combined arms training to aviation units. AVCATT-A provides Army aviation units (active, reserve and National Guard) the capability to train as they fight prior to deployment to the field, to prepare for deployment to real world contingencies and to support mission rehearsals in deployment areas.

This system supports the Objective transition path of the Transformation Campaign Plan (TCP).

FY 2000 Accomplishments

- 10350 Developed a prototype Aviation Combined Arms Tactical Trainer - Aviation Reconfigurable Manned Simulator (AVCATT-A) and integrated with the Synthetic Environment Baseline.
- 150 Provided government program management office support for the development and integration effort.

Total 10500

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<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA3, Appropriation NA0173 Aviation Combined Arms Tactical Trainer	0	14609	25227	0	0	0	0	0	0	0

C. Acquisition Strategy: Engineering Manufacturing & Development (EMD) competitive contract against performance specification.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
AVCATT-A Contract Award	1Q			0	0	0	0	0

FY00 Milestone Completed.

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

Project Total Cost:			0	0		0		0		0	0	0
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