ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2006

BUDGET ACTIVITY	PE NUMBER AND TITLE
5 - System Development and Demonstration	**0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT**

COST (In Thousands)		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		41052	39993	40006	31892	27148	23447	24236	Continuing	Continuing
361	INTELLIGENCE SIMULATION SYSTEMS	1154	5824	7160	6114	5603	4134	4721	Continuing	Continuing
362	Jnt Land Component Constructive Trng Capability	39898	34169	32846	25778	21545	19313	19515	Continuing	Continuing

A. Mission Description and Budget Item Justification: This program element funds the development of constructive and wargame simulations used to realistically train commanders and their battle staffs on today's complex battlefield conditions. Project D361 funds the development of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT) that provides Warfighting Commanders at all echelons the ability to train with Intelligence, Surveillance, and Reconnaissance (ISR) products based on realistic ISR assets, people (including the maneuver commander, G-2, G-3, collection manager, analyst/operator) and processes. IEWTPT provides embedded training capability for Future Combat Systems (FCS) ISR systems. IEWTPT will interface/stimulate ISR systems including Tactical Unmanned Aerial Vehicle (TUAV), Joint Surveillance Target Attack Radar System-Common Ground Station (JSTARS-CGS), Aerial Common Sensor (ACS), Tactical Exploitation System/Distributed Tactical Exploitation System (TES/DTES), Guardrail, Counter Intelligence/Human Intelligence Management Systems (CHIMS), Prophet and Distributed Common Ground Station-Army (DCGS-A). IEWTPT is the only Army Simulation System supporting ISR training from the Warfighter to the Military ISR Analyst/System Operator. Project 362, Joint Land Component Constructive Training Capability (JLCCTC), develops the Army's premier wargame simulation for training leaders and Battle Staffs at Brigade, Division, Corps, and echelons above Corps. JLCCTC will provide functionality not currently available (digital, stability, support and information operations), link to unit organizational Command, Control, Communications, Computers and Integration (C4I) equipment, improve exercise generation and after-action reporting. WARSIM will interoperate with One Semi Automated Forces(OneSAF) and other simulations as an integral part of an Army simulation toolkit, so that a warfighter training exercise can represent in simulation all Army echelons and in a Joint environment. JLCCTC pulls together current constructive simulation systems and future constructive simulations and uses a comprehensive strategy to ensure interoperability among all of those systems. This strategy will allow JLCCTC to meet current and future user needs. JLCCTC leverages the best pieces of current systems to meet current training needs and evolves to meet the training needs of the future.

FY07 funding continues product improvements with annual spiral releases of the IEWTPT and continues development of Joint Land Component Constructive Training Capability.

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	41153	40572	38818
Current BES/President's Budget (FY 2007)	41052	39993	40006
Total Adjustments	-101	-579	1188
Congressional Program Reductions		-176	
Congressional Rescissions		-403	
Congressional Increases			
Reprogrammings	-101		
SBIR/STTR Transfer			
Adjustments to Budget Years			1188

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2006

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT**	**361**

COST (In Thousands)	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
361 INTELLIGENCE SIMULATION SYSTEMS	1154	5824	7160	6114	5603	4134	4721	Continuing	Continuing

A. Mission Description and Budget Item Justification: Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT) provides Warfighting Commanders at all echelons the ability to train with Intelligence, Surveillance, and Reconnaissance (ISR) products based on realistic ISR assets, people (including the maneuver commander, G-2, G-3, collection manager, analyst/operator) and processes. IEWTPT provides training capability for Future Combat Systems (FCS) ISR systems. IEWTPT interoperates with the Army's constructive simulation training systems and actual operator level field equipment identified as Target Signature Arrays. IEWTPT will interface/stimulate ISR systems including Tactical Unmanned Aerial Vehicle (TUAV), Joint Surveillance Target Attack Radar System-Common Ground Station (JSTARS-CGS), Aerial Common Sensor (ACS), Tactical Exploitation System/Distributed Tactical Exploitation System (TES/DTES), Guardrail, Counter Intelligence/Human Intelligence Management Systems (CHIMS), Prophet and Distributed Common Ground Station-Army (DCGS-A). IEWTPT is the only Army Simulation System supporting ISR training from the Warfighter to the Military ISR Analyst/System Operator.
The FY07 funding continues product improvements with annual spiral releases in the 4th Quarter of each year of the IEWTPT.

Accomplishments/Planned Program	FY 2005	FY 2006	FY 2007
FY05-FY07: Continues IEWTPT development, systems engineering support, documentation, security accreditation, and improvements with interoperability testing with system Target Signature Arrays (TSA) and constructive simulations.	966	5385	6308
FY05-FY07: Continues IEWTPT Program Management support	188	439	419
FY06-FY07: Continues IEWTPT Test planning and execution.	0	0	433
Total	1154	5824	7160

B. Other Program Funding Summary	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA3, Appropriation NA0100, Training Devices, Nonsystem	295044	204559	243147	194149	222284	188287	185792	CONT	CONT

C. Acquisition Strategy Competitive development based on performance specifications.

ARMY RDT&E COST ANALYSIS (R3)

February 2006

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT

PROJECT
361

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
IEWTPT System Dev & Demo	CPIF	Gen Dynamics C4 Systems, Orlando, FL	13790	636	1-3Q	4978	1-3Q	5907	1-3Q	Continue	Continue	Continue
IEWTPT System Dev & Demo	multiple	various	0	330	1-4Q	407	1-4Q	401	1-4Q	Continue	Continue	Continue
Subtotal:			13790	966		5385		6308		Continue	Continue	Continue

II. Support Costs	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
IEWTPT Engineering & Technical Support	Multiple	Various	1943	0		0		0		0	1943	1943
Subtotal:			1943	0		0		0		0	1943	1943

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
IEWTPT TEMP Support	Various	Multiple	319	0		0		0		0	319	319
IEWTPT Operational Test Event Support	Various	Multiple	359	0		0		0		0	359	359
Test Engineer Support	various	Multiple	324	0		0		433	1-3Q	Continue	Continue	Continue
Subtotal:			1002	0		0		433		Continue	Continue	Continue

IV. Management Services	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award	FY 2006 Cost	FY 2006 Award	FY 2007 Cost	FY 2007 Award	Cost To Complete	Total Cost	Target Value of

ARMY RDT&E COST ANALYSIS (R3)

February 2006

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT

PROJECT
361

	Type				Date		Date		Date			Contract
IEWTPT Program Management	Various	Multiple	860	188	1-4Q	439	1-4Q	419	1-4Q	Continue	Continue	Continue
Subtotal:			860	188		439		419		Continue	Continue	Continue
Project Total Cost:			**17595**	**1154**		**5824**		**7160**		**Continue**	**Continue**	**Continue**

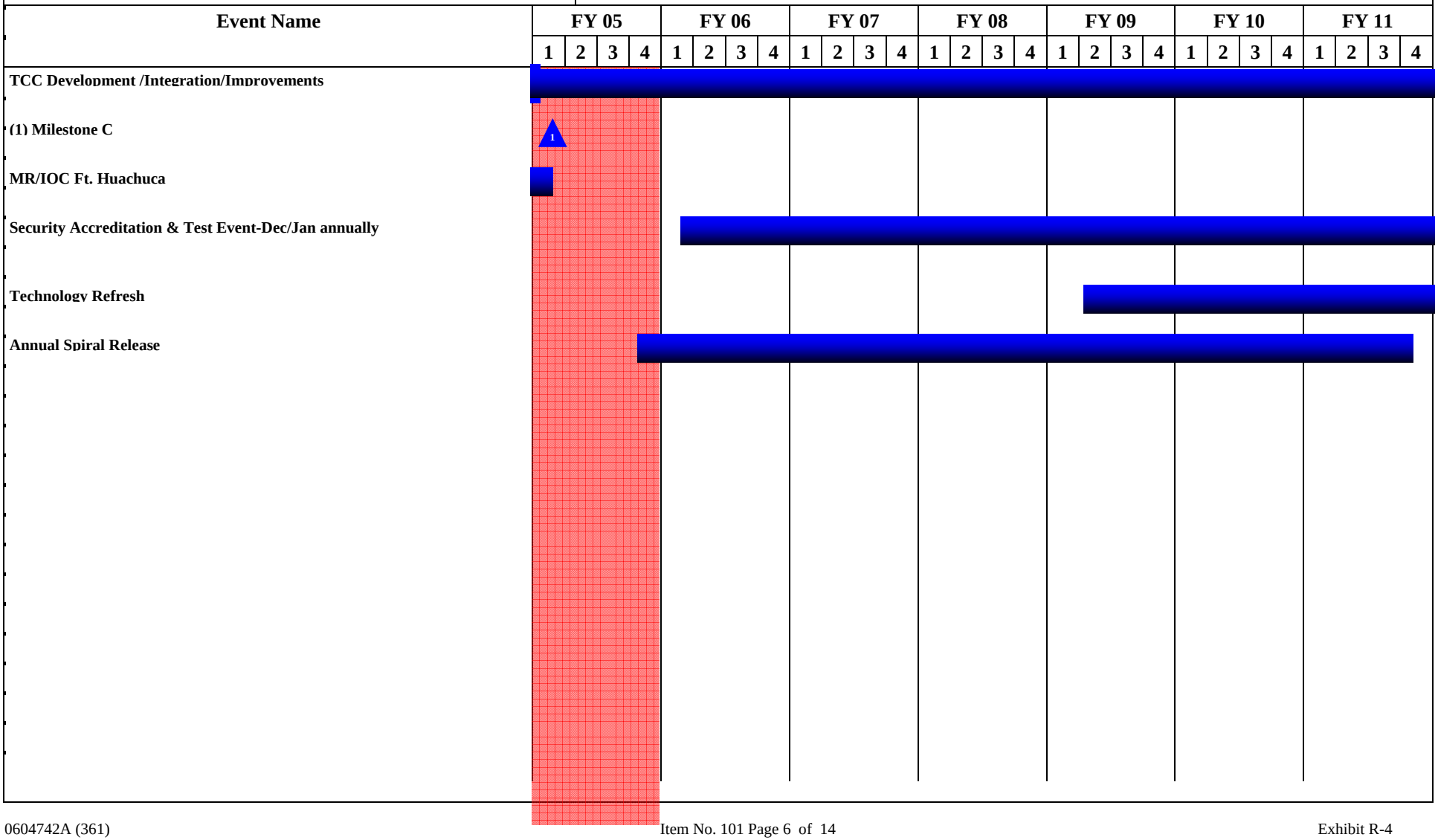
Schedule Profile (R4 Exhibit)

February 2006

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT

PROJECT
361



Schedule Detail (R4a Exhibit)

February 2006

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT**	**361**

Schedule Detail	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
IEWTPT CONTRACT AWARD	1-3Q	1-3Q	1-3Q	1-3Q	1-3Q	1-3Q	1-3Q
IEWTPT Milestone C	1Q						
IEWTPT Annual spiral releases	4Q	4Q	4Q	4Q	4Q	4Q	4Q
IEWTPT Material Release	1Q						

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2006

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT**	**362**

COST (In Thousands)		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
362	Jnt Land Component Constructive Trng Capability	39898	34169	32846	25778	21545	19313	19515	Continuing	Continuing

A. Mission Description and Budget Item Justification: This Project funds the development of the Joint Land Component Constructive Training Capability (JLCCTC), the Army's premier wargaming simulations for training leaders and Battle Staffs from Battalion through echelons above Corps. The JLCCTC initially includes a set of interoperable current systems and integrates WARSIM and OneSAF in an evolutionary manner. JLCCTC will provide functionality not currently available, (digital operations, stability operations and support operations and information Ops) link to organic Battle Commands equipment, improve exercise generation and after-action reporting.

The FY 07 funding continues the development of the Army training system, integration and system evaluation. The JLCCTC leverages the best pieces of current system to meet current training needs and evolves to meet the training needs of the future force.

Accomplishments/Planned Program	FY 2005	FY 2006	FY 2007
FY05-FY07: Verify and Validate JLCCTC software models	3200	2773	2578
FY05-FY-07: Continue integration of WARSIM and JLCCTC components for interoperability.	23898	20304	19670
FY05-FY07: Develop and integrate user interface enhancements for Army training applications.	8000	6932	6574
FY05-FY07: Develop and evaluate system performance and conduct system test events.	4800	4160	4024
Total	39898	34169	32846

C. Acquisition Strategy Competitive development based on performance specifications.

ARMY RDT&E COST ANALYSIS (R3)

February 2006

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT

PROJECT
362

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
WARSIM Development of Army Training System	C/CPAF	Lockheed Martin Info Systems, Orlando, FL	18462	23712	1-3Q	19620	1-3Q	16997	1-3Q	Continue	Continue	Continue
Integration of JCCTC	Multiple	Various	1281	7099	1Q	7049	1Q	7005	1Q	Continue	Continue	Continue
Subtotal:			19743	30811		26669		24002		Continue	Continue	Continue

II. Support Costs	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
Engineering & Tech Spt	Multiple	Various	5164	445	1-4Q	420	1-4Q	473	1-4Q	Continue	Continue	Continue
Subtotal:			5164	445		420		473		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
Verification, Validation and Accreditation	Multiple	Various	3409	2724	1-3Q	1951	1-3Q	3040	1-3Q	Continue	Continue	Continue
WARSIM System Evaluation and Test	Multiple	Various	7229	2207	1-3Q	1828	1-3Q	1968	1-3Q	Continue	Continue	Continue
Subtotal:			10638	4931		3779		5008		Continue	Continue	Continue

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

ARMY RDT&E COST ANALYSIS (R3)

February 2006

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT**	**362**

Program Management	Multiple	Various	9493	3711	1-2Q	3301	1-2Q	3363	1-2Q	Continue	Continue	Continue
Cost Analysis Support	T&M	Northrup Grumman-TASC, Orlando FL	414	0		0		0		0	414	493
Subtotal:			9907	3711		3301		3363		Continue	Continue	Continue
Project Total Cost:			**45452**	**39898**		**34169**		**32846**		**Continue**	**Continue**	**Continue**

Schedule Profile (R4 Exhibit)

February 2006

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT

PROJECT
362

Event Name	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) ACTF V2			1																									
(2) WARSIM integrated into JLCCTC Version 3							2																					
MS C								4																				
(3) Milestone C, (4) JLCCTC V3, (5) OneSAF integration into JLCCTC Version 4, (6) JLCCTC V4, (7) JLCCTC V5, (8) JLCCTC V6, (9) JLCCTC V7, (10) JLCCTC V8											6				7				8				9				10	

Schedule Detail (R4a Exhibit)

February 2006

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT**	**362**

Schedule Detail	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Award WARSIM System Development Contract	1-3Q	1-3Q	1-3Q	1-3Q	1-3Q	1-3Q	1-3Q