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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Office of Secretary Of Defense **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0603757D8Z: <i>TRAINING TRANSFORMATION (T2)</i>
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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	54.380	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
758: <i>JOINT NATIONAL TRAINING CAPABILITY (JNTC)</i>	31.554	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
759: <i>JOINT TRAINING CAPABILITY ANALYSIS OF ALTERNATIVES (TCAoA)</i>	3.550	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
761: <i>JOINT SIMULATION SYSTEMS (JSS)</i>	9.276	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
764: <i>IRREGULAR WARFARE (IW)</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
769: <i>JOINT KNOWLEDGE DEVELOPMENT & DISTRIBUTION CAPABILITY (JKDDC)</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
760: <i>JOINT COMBINED TRAINING CENTRE (JCTC)</i>	10.000	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

**The PE will change to 0804767D8Z in FY10 and out. **

These programs are part of a coordinated effort to develop and deploy capabilities for rapidly linking and integrating Live, Virtual, and Constructive (LVC) forces for Services, Combatant Commanders (COCOMs), coalition, and other government agencies. These programs will create a realistic battlespace environment in which to train as a Joint Warfighting force to meet emerging mission requirements including the Long War. These investments support the Secretary of Defense's (SECDEF) Training Transformation (T2) initiative to enable and enhance Joint Warfighting readiness by training as we intend to fight. The elements associated with this coordinated effort consist of:

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<ul style="list-style-type: none">- Joint National Training Capability (JNTC)- Training Capability Analysis of Alternatives (TCAoA)- Joint Simulation Systems (JSS)- Irregular Warfare (IW)- Joint Knowledge Development & Distribution Capability (JKDDC) <p>JNTC: Initially established in 2003, JNTC continues to develop and integrate Advanced Training Technologies (ATT) into a seamless Joint training environment. JNTC establishes the overarching Joint framework and context necessary for COCOMs and Services to achieve a Joint training environment through an integrated network of training sites and nodes. JNTC provides the common standards, architecture, and development processes required to link Joint training programs. By leveraging existing training programs or initiating specific actions, JNTC is providing credible opposing force capabilities and expanded access to assets typically unavailable to the training audience by integrating virtual or constructive representations of these capabilities. This furthers the integration of Joint training objectives into Service training events, while capturing the objective data necessary to provide a complete and accurate after action review. This program develops and enhances current and future Joint training enterprise capabilities.</p> <p>TCAoA: The TCAoA effort focuses on comparing current training capabilities with training requirements in order to identify gaps in our current Joint training capability, to identify alternatives for resolution and to assess the cost and effectiveness of these alternatives. Specifically, the TCAoA focuses on: (1) developing and integrating enhancements to the existing and programmed constructive simulations, (2) pursuing selected alternative training methodologies, (3) developing an innovative acquisition prototype, (4) developing solutions to implement recommendations from the Joint Staff's comprehensive study to re-engineer Joint training and (5) developing a clear management and oversight structure to meet future Joint training requirements. These efforts provide solutions to the 35 gaps and seams in Joint and Service training requirements identified by the COCOM's in the SECDEF 2004 TCAoA study. These efforts increase warfighter Joint training capabilities with improved constructive simulations and streamlined acquisition processes, leveraging industry training methodologies and technologies to provide on-demand Joint training tailorable to COCOM requirements for Joint Task Force headquarters staffs and individuals.</p> <p>JSS: This effort provides warfighters with enhanced Joint Live, Virtual, and Constructive (JLVC) based training capabilities resident in the Joint Force Trainer Toolkit (JFTT). The JFTT is a set of training enablers, and "certified systems" that are interoperable and acceptable for usage within the Joint training environment. The JFTT is a one-stop shop that enables Services, COCOMS, Agencies and Coalition partners to deliver trained, capable, and interoperable joint forces.</p> <p>Irregular Warfare (IW): 85% of the casualties in Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF) are from direct fire and improvised explosive devices in an IW environment. This research and development effort is aimed at closing training gaps at the tactical and operational level that will ensure our ground forces receive immersive pre-deployment training on par with that provided to our air, maritime, and Special Forces. The effort will research, develop and integrate technologies to enhance training for General Purpose Forces (GPF) to conduct IW operations through enhanced interagency teams, human terrain/cueing/profiling training, cultural awareness training, mixed reality training, and distributed training.</p>		

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APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	PE 0603757D8Z: <i>TRAINING TRANSFORMATION (T2)</i>

JKDDC Advanced Technologies: JKDDC's requirement is to develop a Joint Individual Training Toolkit of web enabled individual and small group training products and services. Products and services developed in response to JKDDC stakeholder (COCOMs, Services, and Combat Support Agencies) prioritized training requirements. JKDDC supports a career-long joint learning continuum, joint professional military education and tailored common training standards to Service members for tasks that are jointly executed, resulting in trained, capable, and interoperable joint forces. This supports advanced technology development and enhancement for the Joint Advanced Distributive Learning training community. JKDDC advanced technology initiatives principally include the Virtual Cultural Awareness Training (VCAT) web-based gaming and Immersive Learning Environments (ILES) small group training requirements, both accessible via the Joint Knowledge Online (JKO) Learning Management System (LMS). This capability facilitates the training and preparation of tens of thousands of military and civilian personnel deployed to combat theaters of operation prior to serving in their assigned Joint Task Force (JTF) billets. Specifically, VCAT supports one of the top three identified training shortcomings of returning warriors from United States Central Command (CENTCOM) based JTFs cultural awareness training. Joint Task Force 'Battle Staffs' will be adequately trained, warriors as individuals and the staffs collectively, based on ILES development, overcoming existent training inadequacies for joint warriors. Significant training deficiencies will be mitigated in critical 'go to war' tasks.

B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	58.009	0.000	0.000	0.000	0.000
Current President's Budget	54.380	0.000	0.000	0.000	0.000
Total Adjustments	-3.629	0.000	0.000	0.000	0.000
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-2.246	0.000			
• SBIR/STTR Transfer	-1.383	0.000			

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 758: JOINT NATIONAL TRAINING CAPABILITY (JNTC)

Congressional Add: *Integrated Analysis Environment*

Congressional Add: *Agile Software Capability Interventions*

Congressional Add: *Indiana complex Operations Partnership*

	FY 2009	FY 2010
	1.200	0.000
	1.600	0.000
	2.000	0.000

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<u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u>	FY 2009	FY 2010
Congressional Add: <i>Playas Training & Research Center</i>	4.800	0.000
Congressional Add Subtotals for Project: 758	9.600	0.000
Project: 760: <i>JOINT COMBINED TRAINING CENTRE (JCTC)</i>		
Congressional Add: <i>New Mexico University for Defense & Public Policy</i>	10.000	0.000
Congressional Add Subtotals for Project: 760	10.000	0.000
Congressional Add Totals for all Projects	19.600	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE				PROJECT				
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>			PE 0603757D8Z: <i>TRAINING TRANSFORMATION (T2)</i>				758: <i>JOINT NATIONAL TRAINING CAPABILITY (JNTC)</i>				
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
758: <i>JOINT NATIONAL TRAINING CAPABILITY (JNTC)</i>	31.554	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

DoD directed United States Joint Forces Command (USJFCOM) to establish the Joint National Training Center Advanced Training Technology (JNTC/ATT) to develop future training concepts and capabilities. The mission is to develop robust RDT&E capabilities that integrate Live, Virtual, and Constructive (LVC) elements into a seamless Joint training environment. JNTC creates Joint warfighting conditions through a networked collection of interoperable training sites, ranges, and nodes that synthesize personnel, doctrine, and technology to deliver and achieve "Joint Context" for COCOM and Service training requirements. JNTC provides research and development (R&D) within an LVC distributed test-bed supporting the advancement of training technologies in the context of a Joint integrated battle space. The test bed operates as a continuous training R&D environment, providing the foundation for a distributed and deployable Mission Rehearsal System, integrating live Intelligence, Surveillance and Reconnaissance feeding the Common Operational Picture. These funds provide critical Joint/Coalition Service members and interagency partner's enhanced training to allow requisite enhancements to existing training systems, capabilities, and technologies. These enhancements improve training efficiencies and provide an integrated LVC environment. This capability precludes the necessity for conducting large-scale live exercises to achieve the SECDEF's T2 vision.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
P758 Joint National Training Center (JNTC)	21.954	0.000	0.000	0.000	0.000
<i>FY 2009 Accomplishments:</i> <ul style="list-style-type: none"> • Completed deployable spiral 2 (tactical data link and voice/video capability) to provide an enterprise solution to enable near-real time and post event assessment of the Joint Warfighter's performance. • Continued to develop and integrate Chemical, Biological, Radiological, Nuclear, and Explosive capabilities into the Joint training environment. 					

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none"> • Continued the development of the collaborative information environment tools, ensuring integration with the Net Centric Enterprise Services and products. Develop transition plans for the developed systems to integrate into Net Centric Enterprise Service solutions for Information/Knowledge Management Capabilities. • Completed research, planning and engineering to transition JTEN to NextGen JTEN and complete Global Information Grid (GIG) alignment of the JTEN. • Completed research to identify customer off the shelf/government off the shelf alternative means of extending the JTEN to remote/austere locations and locations where security constraints do not permit persistent installation of JTEN service delivery points. • Researched communication technologies that will facilitate the distribution of mixed reality training around the globe - moving electrons instead of people to ensure the warfighter's last training experience is as close to the real thing as possible. • Continued research and development efforts to mitigate or resolve identified Joint training cross-domain information sharing issues/shortfalls/gaps. • Developed and tested coalition training network reference architecture with the Navy and the Air Force. 								
Accomplishments/Planned Programs Subtotals				21.954	0.000	0.000	0.000	0.000
				FY 2009	FY 2010			
Congressional Add: Integrated Analysis Environment <i>FY 2009 Accomplishments:</i> Funding for Joint Forces Command				1.200	0.000			
Congressional Add: Agile Software Capability Interventions				1.600	0.000			

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

	FY 2009	FY 2010
<i>FY 2009 Accomplishments:</i> Funding for Joint Forces Command		
Congressional Add: Indiana complex Operations Partnership <i>FY 2009 Accomplishments:</i> Funding for Joint Forces COmmand	2.000	0.000
Congressional Add: Playas Training & Research Center <i>FY 2009 Accomplishments:</i> Funding for Joint Forces Command	4.800	0.000
Congressional Adds Subtotals	9.600	0.000

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

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u> <u>Continuing</u>
• 0603757D8Z: <i>JNTC O&M Funding</i>	58.464										

D. Acquisition Strategy

N/A

E. Performance Metrics

The USJFCOM Joint Warfighting Center (JWFC) Joint Force Trainer Enterprise Resource Planning Board (JFT ERPB) established in FY07 reviews all RDT&E equities. The JFT ERPB consists of senior technical, operational, program manager, and stake holder representatives within the Joint Force Trainer Community. The board's responsibilities encompass merging and prioritizing technical training requirements. It apportions work to the RDT&E elements based on an assessment of where the work is best accomplished. The board will evaluate the efficacy of development efforts based on performance metrics and will vote on whether or not to continue the

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<p>effort. This process will ensure the Joint Force Trainer capabilities development effort synchronizes with warfighter requirements. Performance metrics include, but are not limited to; time, money, realism, and fidelity as defined below:</p> <ul style="list-style-type: none">• Time – Will the effort enable the Joint Force Trainer to prepare and execute training more timely than current capabilities allow?• Cost – Will the effort enable the Joint Force Trainer to prepare and execute training at a more effective and efficient cost than current capabilities allow?• Realism – Will the effort enable the Joint Force Trainer to create a training environment that is closer to the real world environment than current capabilities allow?• Fidelity – Will the effort enable the Joint Force Trainer to create more detailed capabilities in the training environment than current capabilities allow? <p>The ERPB is the strategic management forum where the outcomes of performance relative to our external customers, stakeholders, and strategic stewardship of resources are the focus of discussion. Performance against the targets will be assessed and reported monthly, briefed quarterly to the ERPB, and rolled up into the JWFC Joint Training End-of-Fiscal Year Performance Report to ensure transparency and accountability.</p>		

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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
759: <i>JOINT TRAINING CAPABILITY ANALYSIS OF ALTERNATIVES (TCAoA)</i>	3.550	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

Joint Force Trainer supports development capabilities in Joint simulations to eliminate training gaps identified by the COCOMs and in accordance with SECDEF's T2 objectives. In accordance with the Unified Command Plan (2006), USJFCOM JWFC leads the development and implementation of system architectures that directly support distributed Joint training requirements of the other COCOMs, Joint Task Forces, and Defense Agencies. The underlying premise of TCAoA centers on privatization of training support and development with the competitive market forces driving the development of technologies to reduce the cost of training. The creation of a JFCOM Joint Oversight Board establishes a governance process to review the effectiveness of the tools and the providers. Management of the toolkit, which is a set of capabilities, and system certified technologies that are interoperable and acceptable for usage within the Joint training environment. This Joint Force Trainer Toolkit supports Joint Exercises, Doctrine, Lessons Learned, Distributed Learning and Modeling & Simulation will be a government-led Consortium with industry and academia that ensures the tools in the toolkit comply with the requirements of the common architecture. A number of emerging technologies from Industry, Government and Academic sources that offer the greatest potential to reengineer Joint training are considered for training use. These technologies include Light Simulations, Light Federations, Story-Driven Training, Massively-Multi-player Games, Training Objective Driven Simulation, Embedded Training, and Joint Community Unique Simulations

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
P759 Joint Capability Analysis of Alternatives (TCAoA)	3.550	0.000	0.000	0.000	0.000
<i>FY 2009 Accomplishments:</i>					
• Provided additional CERFP recertification training to the CERFP teams at Columbus, Ohio [March], Omaha, Nebraska [June], and Arden Hills, Minnesota [September].					

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none"> • Established open standards for data models and federation object models to reduce integration costs. • Developed prototype COCOM training capabilities based on the following technologies; Massively Multiplayer Games, Story-Driven Training, and Light Simulations/Federations. • Developed a use case for training United States Africa Command (AFRICOM) staff in mission rehearsal using non-kinetic scenarios. • Developed criteria for training situations and metrics for evaluation of training. • Integrated Real World software virtual environment into the Small Unit Immersive Training Environment (SUITE) Joint Capability Technology Demonstration (JCTD). 					
Accomplishments/Planned Programs Subtotals	3.550	0.000	0.000	0.000	0.000

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

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 0603757D8Z: <i>Joint TRaining Capability Analysis of Alternatives (TCAoA)</i>	0.000									Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

The USJFCOM Joint Warfighting Center (JWFC) Joint Force Trainer Enterprise Resource Planning Board (JFT ERPB) established in FY07 reviews all RDT&E equities. The JFT ERPB consists of senior technical, operational, program manager, and stake holder representatives within the Joint Force Trainer Community. The board's responsibilities encompass merging and prioritizing technical training requirements. It apportions work to the RDT&E elements based on an assessment of where the work is best accomplished. The board will evaluate the efficacy of development efforts based on performance metrics and will vote on whether or not to continue the effort. This process will ensure the Joint Force Trainer capabilities development effort synchronizes with warfighter requirements. Performance metrics include, but are not limited to; time, money, realism, and fidelity as defined below:

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<ul style="list-style-type: none">• Time – Will the effort enable the Joint Force Trainer to prepare and execute training more timely than current capabilities allow?• Cost – Will the effort enable the Joint Force Trainer to prepare and execute training at a more effective and efficient cost than current capabilities allow?• Realism – Will the effort enable the Joint Force Trainer to create a training environment that is closer to the real world environment than current capabilities allow?• Fidelity – Will the effort enable the Joint Force Trainer to create more detailed capabilities in the training environment than current capabilities allow? <p>The ERPB is the strategic management forum where the outcomes of performance relative to our external customers, stakeholders, and strategic stewardship of resources are the focus of discussion. Performance against the targets will be assessed and reported monthly, briefed quarterly to the ERPB, and rolled up into the JWFC Joint Training End-of-Fiscal Year Performance Report to ensure transparency and accountability.</p>		

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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	
761: <i>JOINT SIMULATION SYSTEMS (JSS)</i>	9.276	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												
In accordance with Secretary of Defense tasking JSS will fund research, development, testing and integration of enhancements to Joint simulations that eliminate COCOM identified training shortfalls. USJFCOM leads the development, integration, and operation of systems and architectures that directly support distributed Joint training requirements of other COCOMs, Joint Task Forces, and Defense Agencies. To that end, JSS provides the Joint training environment with the ability to insert emerging research and development technology to enhance existing systems in Joint, Live, Virtual and Constructive (JLVC).												
B. Accomplishments/Planned Program (\$ in Millions)												
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
P761 Joint Simulation System <i>FY 2009 Accomplishments:</i>						9.276	0.000	0.000	0.000	0.000		
<ul style="list-style-type: none"> • Released version 2.0 of the Joint Multi-Resolution Model Federation as part of the Joint Trainer Toolkit. This capability will improve tactical-to-operation level of warfare interactions and incorporate additional logistics and intelligence functionality. • Enhanced logistics modeling-and-simulation capabilities to fully support global deployment requirements of U.S. Transportation Command. • Implemented a civilian infrastructure model in the Joint Theater Level Simulation. • Implemented a psychological operations capability in the Joint, Live, Virtual, and Constructive Federation. • Established data services for terrain, targeting, and infrastructure, to provide faster and higher-fidelity mission rehearsals. 												
Accomplishments/Planned Programs Subtotals						9.276	0.000	0.000	0.000	0.000	0.000	

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C. Other Program Funding Summary (\$ in Millions) N/A		
D. Acquisition Strategy N/A		
E. Performance Metrics The USJFCOM Joint Warfighting Center (JWFC) Joint Force Trainer Enterprise Resource Planning Board (JFT ERPB) established in FY07 reviews all RDT&E equities. The JFT ERPB consists of senior technical, operational, program manager, and stake holder representatives within the Joint Force Trainer Community. The board's responsibilities encompass merging and prioritizing technical training requirements. It apportions work to the RDT&E elements based on an assessment of where the work is best accomplished. The board will evaluate the efficacy of development efforts based on performance metrics and will vote on whether or not to continue the effort. This process will ensure the Joint Force Trainer capabilities development effort synchronizes with warfighter requirements. Performance metrics include, but are not limited to; time, money, realism, and fidelity as defined below: <ul style="list-style-type: none">• Time – Will the effort enable the Joint Force Trainer to prepare and execute training more timely than current capabilities allow?• Cost – Will the effort enable the Joint Force Trainer to prepare and execute training at a more effective and efficient cost than current capabilities allow?• Realism – Will the effort enable the Joint Force Trainer to create a training environment that is closer to the real world environment than current capabilities allow?• Fidelity – Will the effort enable the Joint Force Trainer to create more detailed capabilities in the training environment than current capabilities allow? The ERPB is the strategic management forum where the outcomes of performance relative to our external customers, stakeholders, and strategic stewardship of resources are the focus of discussion. Performance against the targets will be assessed and reported monthly, briefed quarterly to the ERPB, and rolled up into the JWFC Joint Training End-of-Fiscal Year Performance Report to ensure transparency and accountability.		

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>				R-1 ITEM NOMENCLATURE PE 0603757D8Z: <i>TRAINING TRANSFORMATION (T2)</i>				PROJECT 764: <i>IRREGULAR WARFARE (IW)</i>			
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
764: <i>IRREGULAR WARFARE (IW)</i>	0.000	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

There is an immediate and critical need to develop immersive training solutions for small combat units to conduct Irregular Warfare (IW) operations in complex urban and restrictive terrain environments. The U.S. military's dominance in traditional modes of combat has pushed its adversaries toward irregular and asymmetric tactics. Moreover, the threat environment is becoming increasingly complex due to mega-urbanization, the presence of large numbers of noncombatants in any military action, and the evolving dynamics of the information environment. Meeting the challenges of the current and future IW environment requires more tactically-enhanced small combat units. Hence, the Department of Defense must prepare small combat unit leaders/leader teams to make tactical and ethical decisions that carry significant strategic implications. Additionally, leaders and staffs at all levels must understand their role in supporting this type of fight: one that can move from non-kinetic to kinetic and back in seconds, and one where the people are the battlefield and not just collateral actors. Accordingly, DoD must specifically train and broadly educate its joint forces to understand cultures and populations, to thrive in chaotic environments, to recognize and respond creatively to dynamic and demanding situations, and to operate with coalition, interagency, and host nation partners as the norm and not the exception. To accomplish IW training objectives, the Department requires training facilities that fully immerse the lower-level units in a live, virtual, and constructive training environment that replicates as closely as possible the conditions of today's and tomorrow's battlefield. These training facilities must allow the unit to utilize the full range of assets that will be available to them in actual missions including their individual equipment, individual and crew-served weapons, command and control systems, navigation systems, and target location/designation systems. It will link joint enablers such as Intelligence, Surveillance & Reconnaissance (ISR) and joint fires from many different locations across the joint force, as well as link training units' company, battalion, and regiment/brigade, which may also be conducting immersion training simultaneously. The need is to identify those common training needs and solutions that require a Joint approach across the Services. The strategy will be to leverage and integrate the existing and emerging Coalition, Inter-agency, Service and COCOM capabilities that can address the needs of the warfighter to train in an IW environment.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
P764 Irregular Warfare	0.000	0.000	0.000	0.000	0.000

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<i>FY 2009 Accomplishments:</i> N/A					
Accomplishments/Planned Programs Subtotals	0.000	0.000	0.000	0.000	0.000

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

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 0603757D8Z: <i>IW O&M Funding</i>	0.000									Continuing	Continuing
• 0603757D8Z - : <i>IW Procurement funding</i>	0.000									Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

The USJFCOM Joint Warfighting Center (JWFC) Joint Force Trainer Enterprise Resource Planning Board (JFT ERPB) established in FY07 reviews all RDT&E equities. The JFT ERPB consists of senior technical, operational, program manager, and stake holder representatives within the Joint Force Trainer Community. The board's responsibilities encompass merging and prioritizing technical training requirements. It apportions work to the RDT&E elements based on an assessment of where the work is best accomplished. The board will evaluate the efficacy of development efforts based on performance metrics and will vote on whether or not to continue the effort. This process will ensure the Joint Force Trainer capabilities development effort synchronizes with warfighter requirements. Performance metrics include, but are not limited to; time, money, realism, and fidelity as defined below:

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<p>The ERPB is the strategic management forum where the outcomes of performance relative to our external customers, stakeholders, and strategic stewardship of resources are the focus of discussion. Performance against the targets will be assessed and reported monthly, briefed quarterly to the ERPB, and rolled up into the JWFC Joint Training End-of-Fiscal Year Performance Report to ensure transparency and accountability.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>				R-1 ITEM NOMENCLATURE PE 0603757D8Z: <i>TRAINING TRANSFORMATION (T2)</i>				PROJECT 769: <i>JOINT KNOWLEDGE DEVELOPMENT & DISTRIBUTION CAPABILITY (JKDDC)</i>			
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
769: <i>JOINT KNOWLEDGE DEVELOPMENT & DISTRIBUTION CAPABILITY (JKDDC)</i>	0.000	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

The Departments requirement is to develop a Joint Individual Training Toolkit of web enabled individual and small group training products and services. Products and services are developed in response to JKDDC stakeholder (COCOMs, Services, and Combat Support Agencies) prioritized training requirements. JKDDC supports a career-long joint learning continuum, joint professional military education and tailored common training standards to Service members for tasks that are jointly executed, resulting in trained, capable, and interoperable joint forces. This supports advanced technology development and enhancement for the Joint Advanced Distributive Learning training community. JKDDC advanced technology initiatives principally include the Virtual Cultural Awareness Training (VCAT) web-based gaming and Immersive Learning Environments (ILES) small group training requirements, both accessible via the Joint Knowledge Online (JKO) Learning Management System (LMS). This capability facilitates the training and preparation of tens of thousands of military and civilian personnel deployment to combat theaters of operation prior to serving in their assigned Joint Task Force (JTF) billets. Specifically, VCAT supports one of the top three identified training shortcomings of returning warriors from United States Central Command (CENTCOM) based JTFs (cultural awareness training). JTF 'battle staffs' will be adequately trained, warriors as individuals and the staffs collectively, based on ILES development, overcoming existent training inadequacies for joint warriors. Significant training deficiencies will be mitigated in critical 'go to war' tasks.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
P769 Joint Knowledge Development & Distribution Capability (JKDDC) <i>FY 2009 Accomplishments:</i> N/A	0.000	0.000	0.000	0.000	0.000
Accomplishments/Planned Programs Subtotals	0.000	0.000	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0603757D8Z: <i>TRAINING TRANSFORMATION (T2)</i>	PROJECT 769: <i>JOINT KNOWLEDGE DEVELOPMENT & DISTRIBUTION CAPABILITY (JKDDC)</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0603757D8Z: <i>JKDDC O&M Funding</i>	10.004									Continuing	Continuing
• 0306757D8Z-: <i>JKDD Procurement Funding</i>	0.000									Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

The USJFCOM Joint Warfighting Center (JWFC) Joint Force Trainer Enterprise Resource Planning Board (JFT ERPB) established in FY07 reviews all RDT&E equities. The JFT ERPB consists of senior technical, operational, program manager, and stake holder representatives within the Joint Force Trainer Community. The board's responsibilities encompass merging and prioritizing technical training requirements. It apportions work to the RDT&E elements based on an assessment of where the work is best accomplished. The board will evaluate the efficacy of development efforts based on performance metrics and will vote on whether or not to continue the effort. This process will ensure the Joint Force Trainer capabilities development effort synchronizes with warfighter requirements. Performance metrics include, but are not limited to; time, money, realism, and fidelity as defined below:

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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	
760: <i>JOINT COMBINED TRAINING CENTRE (JCTC)</i>	10.000	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												
Supports USPACOM execution of SECDEF initiative with Australian Defence Forces to strengthen bilateral cooperation by enhancing the Joint Combined Training Capability (JCTC). Provides for design and implementation of prototype solutions for US-Australian forces to train at instrumented Force-on-Force, Joint Fires, and Electronic Warfare ranges in Australia that will be fully interoperable with and extend the capabilities of USJFCOM's Joint National Training Capability.												
B. Accomplishments/Planned Program (\$ in Millions)												
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
P760 Joint Combined Training Center (JCTC)						0.000	0.000	0.000	0.000	0.000		
<i>FY 2009 Accomplishments:</i> FY 2009 Accomplishments: Planned activities: <ul style="list-style-type: none"> • Conduct a technical study to determine the next phases for developing the Shoal Water Bay Training Area (SWBTA) for instrumented, live, force-on-force engagements and training by U.S. and Australia Defense Forces (ADF). • Complete site surveys, technical research, and prototype designs for fully instrumented, remotely observable joint fires ranges with distributed control measures at the Bradshaw Field Training Area (BFTA) in Northern Australia and the Cutana Training Area (CUTA) in Southern Australia. • Conduct a telecommunications study to develop a technical solution to connect BFTA's synthetic environment to the Australian Defense Training and Experimentation Network (DTEN) and USJFCOM's Joint Training and Experimentation Network (JTEN) in support of US-Australian forces training and exercising in Australia or distributively throughout the Pacific theater. 												

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<ul style="list-style-type: none"> • Conduct a follow-on telecommunications study to develop a technical solution to link multiple synthetic environments created throughout Australia (including SWBTA, BFTA, and CUTA) with the Australian DTEN and USJFCOM JTEN in support of US-Australian forces training and exercising in Australia or distributively throughout the Pacific theater. • Provide technical advice and assistance to develop a deployable Exercise Control Center to command and control activities of US-Australian forces training and exercising in Australia or distributively throughout the Pacific theater. 					
Accomplishments/Planned Programs Subtotals	0.000	0.000	0.000	0.000	0.000

	FY 2009	FY 2010
Congressional Add: New Mexico University for Defense & Public Policy <i>FY 2009 Accomplishments:</i> Funding for Joint Forces Command	10.000	0.000
Congressional Adds Subtotals	10.000	0.000

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

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 0603757D8Z: <i>JCTC O&M Funding</i>	2.160									Continuing	Continuing

D. Acquisition Strategy

N/A

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E. Performance Metrics

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