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<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>							Date: February 2005		
Appropriation/Budget Activity RDT&E, Defense Wide/BA-4				R-1 Item Nomenclature Joint Capability Technology Demonstration (JCTD), PE 0604648D8Z					
Cost (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
JCTD		0.000	0.000	3.000	3.000	3.000	3.000	3.000	3.000

**A. Mission Description and Budget Item Justification**

**BRIEF DESCRIPTION OF ELEMENT:** Beginning in FY 2006, a new Advanced Concept Technology Demonstration (ACTD) business process will be initiated which will take the successful ACTD program and update it to meet the Department’s transformational goal of becoming capability vice threat based in its focus. The program will be referred to as the Joint Capability Technology Demonstration (JCTD) program. The JCTD program will include many of the positive aspects of the ACTD program, but will be revamped to meet the defense challenges of the 21<sup>st</sup> century. The new process will integrate the ACTD program with the new Joint Integration and Development System (JCIDS) developed by the Joint Chiefs of Staff (JCS). Beginning in FY 2006, the Department estimates a three to five year transition period from the current ACTD process to the improved JCTD program. Eventually, JCTDs will replace ACTDs, providing an even faster process that focuses on joint and transformational technologies that are initiated in Science and Technology (S&T) and carried through the difficult transition stage, sometimes referred to as the “S&T valley of death.”

In seeking ways to speed transition and fielding of innovative joint capabilities, the JCTD Program will pioneer a transformational new model for Department of Defense acquisition with the addition of funding in BA-4, B-A5 and Procurement to provide a path for those capabilities that are so vital to the CoCom and/or potentially transformational to the Department, that they must be put on a “fast track” to acquisition rather than face budgetary delays that are built into the standard Planning, Programming, Budgeting, and Execution (PPBE) process. The JCTD Program will be aligned with the Joint Capabilities Interoperability Development System (JCIDS) seeking to enhance CoCom inputs throughout the JCIDS process. The Defense Wide RDT&E funding managed by the Deputy Under Secretary of Defense for Advanced Systems and Concepts (DUSD(AS&C)) will support demonstration of military utility and deployment of interim capability including an “extended user evaluation.” If military utility is successfully proven through an independent test, then DUSD (AS&C) will ensure the mission needs validation remains valid and move the successful JCTD/ACTD into this Budget Activity four (BA-4) program element for Advanced Component Development and additional Prototypes (ACD&P) to facilitate transition to the warfighter. Completion of Technical Readiness Levels 6 and 7 is anticipated as a logical progression.

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**B. Program Change Summary**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Previous President's Budget	0.000	0.000	0.000	0.000
Current FY 2006 President's Budget	0.000	0.000	3.000	3.000
Total Adjustments:	0.000	0.000	-3.000	-3.000
Congressional program reductions				
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				
ACTD Transfer (0603750D8Z)			-3.000	-3.000

A. **Other Program Funding Summary (\$M):** The new JCTD Program provides a “cradle to grave” path for transformational joint capabilities. The initial funding lines are outlined in the table below. Refer to the specific Budget Exhibit for more details on each funding line.

<b>ACTD and JCTD Program Funding Summary</b>	APPN	BA	PE	LINE #	FY 2004	FY 2005	FY 2006	FY 2007
Advanced Concept Technology Development (ACTD)	RDT&E	3	0603750D8Z	44	212.570	212.915	163.649	163.744
Joint Capability Technology Demonstration (JCTD)	RDT&E	3	0603648D8Z	36	0	0	35.000	35.000
Joint Capability Technology Demonstration (JCTD)	RDT&E	4	0604648D8Z	83	0	0	3.000	3.000
Defense Acquisition Executive (JCTD Pilot Program)	RDT&E	5	0605648D8Z	99	0	0	1.000	1.000
Procurement (JCTD Pilot), Major Equipment-OSD Def Wide	Proc	1	0902198D8Z		0	0	1.000	1.000
Total:							40.000	40.000

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- C. Acquisition Strategy:** Two programs are currently under review for including in this Budget Activity—these include the Urban Recon ACTD and the Joint Automated Deep Operations Coordination System (JDOCS). Urban Recon is under the Program Management of USSOCOM while JDOCS is under the purview of the Joint Precision Strike Demonstration (JPSD) program office.
- D. Performance Metrics:**
- Fifty percent of the products from at least 80% of all completing JCTDs will transition to acquisition programs of record, a GSA schedule, CoCom sustainment or, in the case of software-based products, into operationally-sustained systems (such as the Global Command and Control System (GCCS)).
  - JCTD/ACTDs completing ACD&P will be at TRL 6 or 7 and a logical progression of program phases to include development and funding will be established via a documented transition plan.

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Exhibit R-2a, RDT&E Project Justification						Date: February 2005		
Appropriation/Budget Activity RDT&E, Defense Wide/BA-4			R-1 Item Nomenclature Joint Capability Technology Demonstration (JCTD), PE 0604648D8Z					
Cost (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
JCTD	0.000	0.000	3.000	3.000	3.000	3.000	3.000	3.000

**A. Mission Description and Budget Item Justification**

BRIEF DESCRIPTION OF ELEMENT: : Beginning in FY 2006, a new Advanced Concept Technology Demonstration (ACTD) business process will be initiated which will take the successful ACTD program and update it to meet the Department’s transformational goal of becoming capability vice threat based in its focus. The program will be referred to as the Joint Capability Technology Demonstration (JCTD) program.

JCTDs will be phased in over a period of three to five years in order to integrate technology, concepts, tactics and procedures into prototypes or demonstrations that provide new or enhanced joint capabilities to the warfighter in a manner that makes transition more seamless. Funding in this PE will be used for efforts necessary to further develop selected JCTD/ACTDs in a more realistic operating environment for transition into Programs of Record. Acquisition Program Managers and the Test and Evaluation community become more involved in development during this phase of JCTDs.

JCTD Selection Process:

The JCTD Program will use a deliberate process for selecting the transitioning ACTDs into this program element. Successful MUAs will be balanced against the top priorities of the CoComs. Defense Components, industry and coalition partners. The proposed transitioning JCTD candidates will be briefed to the JCS Functional Capability Boards to ensure mission needs remains intact.. The principal management tool for the transitioning JCTD will be the Transition Plan (TP), crafted during the initial JCTD program. Each approved JCTD will be described in these top-level documents which provide details of the demonstration/evaluation, the main objectives, approach, critical events, measures of success, transition options, participants, schedule, and funding.

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**B. PROGRAM ACCOMPLISHMENTS AND PLANS – FY 2004 THROUGH FY 2007:**

FY 2004/2005 General Program Accomplishments

Not applicable.

FY 2006 and FY 2007 General Program Plans:

DUSD (AS&C) will initiate the JCTD program. Prior to FY 2006 a decision will be reached on which successful JCTD/ACTD will be funded in this Budget Activity. The two candidates under consideration are the Urban Recon ACTD and the Joint Automated Deep Operations Coordination System (JDOCS), which is a product resulting from an older ACTD called Theater Precision Strike Operations (TPSO). Urban Recon is under the Program Management of USSOCOM while JDOCS is under the purview of the Joint Precision Strike Demonstration (JPSD) program office. These projects have high CoCom interest and support and are considered viable candidates for the JCTD BA-4, BA-5, and procurement program elements.

**B. C. Other Program Funding Summary:** The new JCTD Program provides a “cradle to grave” path for transformational joint capabilities. The initial funding lines are outlined in the table below. Refer to the specific Budget Exhibit for more details on each funding line.

<b>ACTD and JCTD Program Funding Summary</b>	<b>APPN</b>	<b>BA</b>	<b>PE</b>	<b>LINE #</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
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**D.D. -Acquisition Strategy:** Two programs are currently under review for including in this Budget Activity—these include the Urban Recon ACTD and the Joint Automated Deep Operations Coordination System (JDOCS). Urban Recon is under the Program Management of USSOCOM while JDOCS is under the purview of the Joint Precision Strike Demonstration (JPSD) program office.

**E. Major Performers:** The majority of funding from this Program Element will be forwarded directly to the Services/Defense Agency program office which will provide the appropriate acquisition oversight, including the management of contracting and other support requirements.