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OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

Date: February 2006

APPROPRIATION/BUDGET ACTIVITY
RDT&E/ Defense Wide BA# 3

PE NUMBER AND TITLE

0603727D8Z - Joint Warfighting

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost	10.376	10.043	10.641	11.398	11.431	11.661	11.917
P727 Joint Warfighting	10.376	10.043	10.641	11.398	11.431	11.661	11.917

A. Mission Description and Budget Item Justification: In May 1998 the Secretary of Defense appointed U.S. Joint Forces Command (formerly the U.S. Atlantic Command), as the Defense Department's Executive Agent for Joint Experimentation. Subsequently, the Department realigned resources to support the Joint Forces Command's new role. In FY 1999 funds from this Joint Warfighting Program (JWP) Element (PE: 0603727D8Z) were redirected to support the initial stand-up of Joint Forces Command's Joint Experimentation Directorate. Funding for joint experiments was transferred to Joint Forces Command through the Navy and PE 0603727N in FY 2000 and was established to provide Joint Forces Command with its own funding source. Funding to support the Joint Advanced Warfighting Program (JAWP) concept development, the Information Technology Backplane (ITB), and Technology Feeder Support (TFS) for joint experimentation was retained in the JWP PE. The Defense Adaptive Red Team (DART) was initiated as a pilot project in FY 2002. DART has proven to be very successful by providing an independent team of experts to challenge emerging operational concepts from their origin through the experimentation process. DART is now included in the JWP program across the FYDP.

The Joint Warfighting PE supports four related activities: the JAWP, the ITB, DART and TFS for Joint Experimentation. While these activities strongly support Joint Forces Command's joint experimentation efforts, a separate program element is necessary since the activities support other organizations in addition to Joint Forces Command. Additionally, because of the evaluation role a separate program element, with OSD oversight, provides a necessary degree of independence. The Joint Advanced Warfighting Program (JAWP) was established by the Office of the Secretary of Defense (OSD), with the support of the Vice Chairman of the Joint Chiefs, to serve as a catalyst for innovation and change. This program's focus is on assisting in the formulation and assessment of advanced concepts and capabilities, plus identifying enabling technologies and integration options for the Department. These concepts drive changes in the doctrine, organization, training, materiel, leadership, personnel, and facilities (DOTMLPF) of the Services. The JAWP serves an essential independent role in identifying, exploring and evaluating breakthrough war fighting capabilities. It helps capture and builds on lessons learned from joint contingency operations and earlier joint and Service experimentation. From that foundation, it identifies and helps formulate advanced joint concepts, explores their effectiveness by designing and conducting joint experiments, and helps streamline implementation processes. Its work complements and supports the activities of Joint Forces Command, the Joint Staff, and the OSD by providing a uniquely informed independent source of advice. In identifying and elaborating innovative joint concepts and capabilities and associated enabling technologies, the JAWP helps integrate related Service efforts and those of Combatant Commanders (CoComs) and Defense agencies.

Through its influence in a wide range of DoD transformation efforts, the JAWP promotes integration, bringing greater coherence to efforts that would otherwise be tangential or disconnected. The JAWP is composed of both civilian and military members. Its military component is the JAWP Analytical Project Office (JAWP-APO), a jointly manned activity established by the Deputy Secretary of Defense, consisting of equal numbers of military personnel from all four Services. The active duty military members provide a current operational perspective to concepts under investigation and serve as a vital link to ongoing relevant activities in the Services. The Information Technology Backplane (ITB) provides an advanced network infrastructure that extends commercial capabilities to provide capabilities needed to meet JV2020 needs. Information Superiority is a key JV2020 building block and the ITB provides the means to experiment with the digital transmission capabilities that are projected to be available within five years (from each funding year). The ITB is not a new physical network. It is a virtual network that capitalizes on existing physical networks such as the Defense Information Systems Network (DISN), the DISN Asynchronous Transfer Mode Service Network (DATMS), and the Defense Research and Engineering Network (DREN). The ITB has many users from sites served by existing networks but the funding included in this PE is the incremental funding needed to support joint experimentation. The third effort supported by this PE is Technology Feeder Support (TFS) for joint experiments. TFS empowers

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CoComs to conduct joint experimentation within their theaters of operation to address regional capability gaps and unique mission area requirements, often leveraging the ongoing Technology Demonstration. The final effort supported by this Program Element is the Defense Adaptive Red Team (DART), which was established as a separate project starting with the FY 2003 budget. The DART's mission is to challenge JFCOM, JAWP, the Joint Staff and others in the DoD to develop more robust and resilient concepts for conducting joint operations in the future. It does so through four sets of activities:

(1) Involvement in the planning and implementation of JFCOM, JAWP and Joint Staff concept development and experimentation; (2) Support of other CoComs; (3) Support of the ACTD and Foreign Comparative Test Programs; and (4) Development and refinement of red teaming best practices. The DART develops and implements wargames and other activities as appropriate, and provides independent reports relating to its activities. A senior advisory group meets annually to review the DART's activities and accomplishments, and to recommend changes to focus or operations as required.

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	10.696	10.205	10.476
Current BES/President's Budget (FY 2007)	10.376	10.043	10.641
Total Adjustments	-0.320	-0.162	0.165
Congressional Program Reductions	-0.014	-0.162	
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.306		
Other			0.165

C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

E. Performance Metrics:

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FY	Strategic Goals Supported	Existing Baseline	Planned Performance Improvement / Requirement Goal	Actual Performance Improvement	Planned Performance Metric / Methods of Measurement	Actual Performance Metric / Methods of Measurement
06						
<p>Comment: Performance Metrics: Facilitate solutions to CoCom needs within the resources available to the program. Support concept and technology based capability development. Influence the larger DoD Joint Experimentation investment to serve the needs of the CoComs in balance with other Concept Development and Experimentation goals. Advance interaction with coalition partners.</p>						

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<p>A. Mission Description and Project Justification: The Joint Warfighting PE supports four related activities: the Joint Advanced Warfighting Program (JAWP), the Information Technology Backplane (ITB), the Technology Feeder Support (TFS) and the Defense Adaptive Red Team (DART). Each of these activities is associated with the Joint Experimentation role assigned to the U.S. Joint Forces Command (USJFCOM). While these activities strongly support Joint Forces Command's joint experimentation efforts, a separate program element is necessary since the activities support other organizations in addition to Joint Forces Command (e.g., OSD, JCS, and other CoComs). Additionally, because of the evaluation role a separate program element, with OSD oversight, provides a necessary degree of independence.</p>																												
<p>B. Accomplishments/Planned Program:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Accomplishment/Planned Program Title</th> <th style="text-align: center; padding: 5px;">FY 2005</th> <th style="text-align: center; padding: 5px;">FY 2006</th> <th style="text-align: center; padding: 5px;">FY 2007</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Joint Advanced Warfighting Program (JAWP):</td> <td style="text-align: center; padding: 5px;">5.023</td> <td style="text-align: center; padding: 5px;">5.000</td> <td style="text-align: center; padding: 5px;">5.441</td> </tr> <tr> <td colspan="4" style="padding: 5px;"> FY 2005 Accomplishments - JAWP continued collecting lessons from contingency operations in Iraq, Afghanistan, the Philippines, and other areas where the U.S. and coalition forces are conducting irregular warfare and the Global War on Terrorism. It developed a broad framework encompassing military and non-military considerations for planning and conducting counter-insurgency operations. JAWP personnel interviewed top Hussein regime officials and studied Iraqi documents to understand the regime, the foundations of the insurgency, and relationships with regional countries. Results have been used to educate security, intelligence, and military officials, and briefed to the Vice President. JAWP extended its analysis to al Qaeda and similar movements, providing results to defense and intelligence officials and war colleges. JAWP assisted with planning and execution of JFCOM's Urban Resolve experiments, designed and executed other experiments to protect bases from mortars and rocket attacks, and populated the Joint Mission Modeling Toolkit. JAWP assisted OSD and JFCOM with outreach to CoComs, and completed a number of studies and analyses including an analysis of training and equipping indigenous forces to assume security functions, a study of process improvements for training foreign forces, a study on Joint Programming Guidance formulation and execution, and a Joint Staff study on the concepts-to-capabilities process. </td> </tr> <tr> <td colspan="4" style="padding: 5px;"> FY 2006 Plans - JAWP will continue to focus on capabilities for conducting irregular warfare and the Global War on Terrorism. It will search for key technologies; continue design and execution support to JFCOM experimentation; continue analysis of operations, expanding to Horn of Africa; provide analytical support to Commander Multinational Forces Iraq; continue analyses of opponents' perspectives and strategies; and continue efforts to improve joint command organization and networking to support future concepts. </td> </tr> <tr> <td colspan="4" style="padding: 5px;"> FY 2007 Plans - The JAWP will continue support of full spectrum transformation objectives addressing irregular, catastrophic, and disruptive challenges. It will design, conduct, and support joint experimentation, joint concept development, and analysis of joint operations, with the intent to inform and effect resource allocation and acquisition. 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worldwide. With a very modest investment, this effort explored the means to "export" experimentation to joint warfighters at their headquarters. The ITB developed solutions for wide-area network connectivity for joint warfighting experimentation. ITB advanced the emerging Service Oriented Architecture Enterprise Services through the Evaluation Capabilities Modules efforts. Information assurance and other security technologies for ultra high bandwidth and networking technologies continued to be developed, tested and deployed.				
Accomplishment/Planned Program Title		FY 2005	FY 2006	FY 2007
Technology Feeder Support (TFS):		1.368	3.397	3.500
FY 2005 Accomplishments - Major efforts in FY-05 supported regional joint experimentation requirements of CoComs. US Pacific Command and US Southern Command were primary beneficiaries of this support. Both directed their funding to local initiatives including experimentation with capabilities fielded by Advanced Concept Technology Demonstrations.				
FY 2006 Plans - As the Joint Capabilities Integration and Development System (JCIDS) is implemented by joint CoCom staffs, there is a rapidly escalating need for local joint experimentation to validate mission area requirements. It is anticipated that implementation of the Standing Joint Forces Headquarters and other Transformation efforts will likewise expand the demand for joint experimentation efforts tied to local conditions and requirements. Technology resources will be focused to support these efforts. This fund will continue to complement the larger US Joint Forces Command effort to provide centralized joint experimentation for force-wide capability development.				
FY 2007 Plans - Continue to provide resources to CoComs for joint experimentation that addresses regional capability gaps and improves understanding of new technologies and concepts. Develop concepts for Joint Capabilities Technology Demonstration projects.				
Accomplishment/Planned Program Title		FY 2005	FY 2006	FY 2007
DoD Adaptive Red Team (DART):		1.500	1.646	1.700
FY 2005 Accomplishments - DART provided direct support to US Pacific Command (PACOM) and US Southern Command. Several of these tasks focused on the effects of and countermeasures for biological threats. Counter narco-terrorism efforts were also prominent elements of the tasks undertaken. Its support to US Northern Command and US Forces Korea concluded; however, it began red team support to US Strategic Command on strategic deterrence and related areas. Urban Operations support to US Joint Forces Command was also initiated. ACTD support continued, including both Counter-Bomber 2 (CB2) and Active Denial System (ADS) efforts. Valuable technical, as well as employment and deployment considerations proved invaluable in refining the residual products for DOD. Best practices and Senior Advisory Group activities likewise continued.				
FY 2006 Plans - The DART will again support JFCOM, JAWP and Joint Staff concept development and experimentation efforts. The DART expects to complete its work with PACOM on countering biological weapons, and will extend this work by providing red teaming and wargaming that can bring lessons learned to other CoComs. Efforts relating to combating terrorism, including SOUTHCOM work, will continue. Of note, an exercise to counter the effects of Weapons of Mass Destruction (WMD) with military and civilian officials in Argentina is becoming a key element of US efforts to cement positive military-to-military relations. In addition, it is expected that work with STRATCOM will continue, and work with other CoComs will be initiated. ACTD support will continue, as the DART expects to complete work on the CB2 and initiate red teaming of several new starts. Work on defining red teaming best practices will continue. A Senior Advisory Group will review the DART's activities and accomplishments, and recommend appropriate changes in focus and operations as required.				
FY 2007 Plans - DART will continue to support the CoComs, JAWP and the Joint Staff concept development and experimentation efforts. Best practices and Senior Advisory Group activities will continue.				
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0603727D8Z - Joint Warfighting

PROJECT

P727

Joint Navigational Warfare

1.000

0.000

0.000

FY 2005 - The Joint Navigational Warfare is a program that is run by the National Security Agency (NSA) with oversight by OASD (NII). These funds were transferred to the appropriate program office for execution as directed by OASD (NII) to support the NSA project in accordance with the intent of Congress.

C. Other Program Funding Summary: Not Applicable.**D. Acquisition Strategy:** Not Applicable.**E. Major Performers** Not Applicable.

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