

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</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	26.979	28.629	24.344	0.000	24.344	30.319	29.869	28.851	29.245	Continuing	Continuing
P051: <i>Defense Acquisition Challenge Program</i>	26.979	28.629	24.344	0.000	24.344	30.319	29.869	28.851	29.245	Continuing	Continuing

A. Mission Description and Budget Item Justification

Authorized by Title 10, U.S. Code, Section 2359b, the Defense Acquisition Challenge Program (DACP) provides increased opportunities to insert innovative and cost-saving technologies into acquisition programs of the Department of Defense. DACP funds the test and evaluation of technologies and products with potential to improve performance, affordability, manufacturability, or operational capability of current acquisition programs at the subcomponent, component, or system level.

Since the program inception in FY 2003, Office of Secretary of Defense has initiated 119 projects; 60 projects have been completed to date; 45 met Service or Agency testing requirements and 35 led to procurements. To date, 30 projects have yielded technology currently in use by our warfighters in Iraq, Afghanistan, or at U.S. training facilities.

The Defense Acquisition Challenge Program (DACP) increases opportunities for domestic vendors to enter the Department of Defense (DoD) acquisition process. Although business size is not an evaluation criterion, it is noteworthy that to date approximately 60 percent of the DACP projects awarded are with technology providers at the small or mid-sized enterprise level. DACP has the additional DoD/National Security benefit of expanding the industrial base for defense acquisition.

Final selection of FY 2011 DACP new start projects will be determined in September 2010.

Congressional authority to execute Defense Acquisition Challenge Program currently ends September 30, 2012 (Title 10, U.S. Code, Section 2359b).

UNCLASSIFIED

R-1 Line Item #113

Page 1 of 44

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Office of Secretary Of Defense	DATE: February 2010
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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>
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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	28.409	28.862	0.000	0.000	0.000
Current President's Budget	26.979	28.629	24.344	0.000	24.344
Total Adjustments	-1.430	-0.233	24.344	0.000	24.344
• 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	-0.961	0.000			
• SBIR/STTR Transfer	-0.469	0.000			
• Other Program Adjustments	0.000	-0.233	24.344	0.000	24.344

UNCLASSIFIED

R-1 Line Item #113

Page 2 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</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
P051: <i>Defense Acquisition Challenge Program</i>	26.979	28.629	24.344	0.000	24.344	30.319	29.869	28.851	29.245	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Authorized by Title 10, U.S. Code, Section 2395b, the Defense Acquisition Challenge Program (DACP) provides increased opportunities to insert innovative and cost-saving technologies into acquisition programs of the Department of Defense. DACP funds the test and evaluation of technologies and products with potential to improve performance, affordability, manufacturability, or operational capability of current acquisition programs at the subcomponent, component, or system level.

Since the program inception in FY 2003, Office of the Secretary of Defense (OSD) has initiated 119 projects; 60 projects have been completed to date: 45 met Service or Agency testing requirements; and 35 led to procurements. To date, 30 projects have yielded technology currently in use by our warfighters in Iraq, Afghanistan, or at U.S. training facilities.

The Defense Acquisition Challenge Program (DACP) increases opportunities for domestic vendors to enter the Department of Defense (DoD) acquisition process. Although business size is not an evaluation criterion, it is noteworthy that to date approximately 60 percent of the DACP projects awarded are with technology providers at the small or mid-sized enterprise level. DACP has the additional DoD/National Security benefit of expanding the industrial base for defense acquisition.

Final selection of FY 2011 DACP new starts will be determined in September 2010.

Congressional authority to execute Defense Acquisition Challenge Program currently ends September 30, 2012 (Title 10, U.S. Code, Section 2359b).

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Advanced Infrared (IR) Expendable Decoy (Air Force)	1.297	2.969	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #113

Page 3 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>Evaluate and qualify a small kinematic IR decoy that protects Air Force and Navy aircraft (C-130H, KC-130J, A-10, and F-16) against current generation IR-guided missiles that have the discriminatory capability to reject conventional non-kinematic flares. Following the successful completion of the demonstration the final steps necessary for the full qualification of the flare and the preparation of a technical data package for procurement will be completed. The lead service is Air Force. The primary outputs and efficiencies to be demonstrated are the protection of medium-signature aircraft against heat-seeking missiles that employ kinematic techniques to discriminate against conventional non-kinematic flares. This flare is much more compact than existing kinematic flare designs. This compact design will allow more decoys to be carried per mission. The decoy also takes advantage of new decoy design technology which provides for better performance in a compact shape when compared to existing decoys.</p> <p><i>FY 2009 Accomplishments:</i> Completed draft First Article Qualification Test Plan for the Mobile Jettison Unit-17 (MJB-71)/B Flare. Procured flares for FY 2010 captive seeker flight tests with the above four aircraft. Completed preliminary Modeling and Simulation to determine dynamic effectiveness against missiles with kinematic flare rejection capability. Completed Vendor testing to establish appropriate impulse cartridge and ignition pellet composition for providing reliable ignition and enhanced flare effectiveness for the thrusted MJU-71/B flare. These efforts finalized the flare specification details.</p> <p><i>FY 2010 Plans:</i> Evaluate the effectiveness of the MJU-71/B in protecting the C-130H, KC-130J, A-10, and F-16 aircraft against advanced infrared guided missiles that reject non-kinematic i.e. conventional flares. This evaluation will be accomplished with captive seekers during flight tests with the above four aircraft. Additional effectiveness evaluation will be accomplished through modeling and simulation with MJU-71/B measured IR signatures and measured trajectories. Vendor will manufacture 2500 flares and complete all qualification and safety testing. Data will be analyzed in preparation for</p>					

UNCLASSIFIED

R-1 Line Item #113

Page 4 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>		PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
functional configuration audit. Technical orders prepared for the flare and impulse cartridge and plan for transition into the Services finalized.								
<p>Assessment of Lightweight Weapon Mount (Navy)</p> <p>A successful project will provide the Department of the Navy with a commercial off-the-shelf three-axis stabilized weapons mount superior to existing stabilized mounts. These mounts stabilize heavy cameras on turbulent moving platforms. The improved Lightweight Weapon Mount underwent a preliminary user evaluation with members of the Naval Special Forces using a 0.50 caliber machine gun mounted to the back of a High Mobility Multipurpose Wheeled Vehicle (HMMWV). Per the testimonies of the Navy Sea, Air, Land Forces (SEALS) who performed the evaluation, the technology under consideration showed promising potential. Navy Special Forces recommended that this technology be fielded to Iraq as soon as possible. The primary outputs and efficiencies to be demonstrated are as followed: (1) improved accuracy when firing vehicle mounted weapons; (2) a crew-served weapon mount that is lighter and more cost effective than legacy mounts; and (3) avoids RDT&E, Operations and Support and manufacturing costs of over \$37.000 million.</p> <p><i>FY 2009 Accomplishments:</i> Completed live-fire testing at Naval Surface Warfare Center (NSWC) Crane 3Q FY 2009. Completed technical down select of test mounts 4Q FY 2009.</p> <p><i>FY 2010 Plans:</i> Complete testing of selected mount at Naval Air Systems Command Patuxent River, Maryland 2Q FY 2010. Attain approval from Weapon System Explosives Safety Review Board 4Q FY 2010. Develop and submit final closeout report 4Q FY 2010.</p>				1.839	0.000	0.000	0.000	0.000
Automated Digital Network System (ADNS) Wide Area Network (WAN) Optimization Challenge (Navy)				0.000	1.409	0.951	0.000	0.951
A successful project will provide the Department of the Navy commercial off-the-shelf solutions to address end-of-life issues with the Fleet's current WAN devices. The primary outputs and efficiencies								

UNCLASSIFIED

R-1 Line Item #113

Page 5 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>to be demonstrated are: (1) State-of-the art functions in Network monitoring; (2) Quality of Service; (3) Advanced Compression, Protocol and Application Acceleration; and (4) total cost avoidance over \$106.000 million.</p> <p><i>FY 2010 Plans:</i> Receive initial DAC funding and develop Test Plan 2Q FY 2010. Receive test articles during 3Q FY 2010. Conduct integration and lab testing during 4Q FY 2010. Down select at the end of 4Q FY 2010.</p> <p><i>FY 2011 Base Plans:</i> Provide test report 2Q FY 2011. User evaluation and fleet integration planned for FY 2011 or FY 2012 through transition windows such as: ADNS Increment I, II, IIA, IIB, III, airborne ADNS, or subsurface ADNS. Provide closeout report and procurement decision 4Q FY 2011.</p>						
<p>B-2 Stores Management System (SMS) Test Program Initiative (Air Force)</p> <p>The B-2 is the nation's leading "knock down the door" first-strike combat delivery vehicle, possessing the ability to deliver 80 Joint Direct Attack Munitions (JDAMS) against targets with pinpoint lethality. SMS anomalies, involving a highly complex federated avionics architecture linked to individual weapons through established Military Standards (MIL-STD) 1760 interfaces, jeopardize the B-2 fleet's ability to support its primary mission: "Bombs on Target"! At any given time, there are a maximum of 16 aircraft available to support global mission taskings. The need for SMS diagnostic test capabilities to help ensure all assigned aircraft can achieve their basic mission, irrespective of geographic location is clear. An off-station SMS anomaly that cannot be corrected in a timely manner could require deploying a replacement aircraft to an alternate global location. This is an expensive/burdensome solution which fails to mitigate the core impediment: B-2 SMS maintenance support capabilities required to be in place to maintain mission integrity.</p>		0.000	1.540	1.746	0.000	1.746

UNCLASSIFIED

R-1 Line Item #113

Page 6 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>The polymer battery to be tested has the highest energy density, and the reduced weight makes this the lightest available power source. Phase Change Material (PCM) which will be tested removes heat from the battery pack. PCM has demonstrated that thermal runaway propagation can be prevented through heat absorption. Also, a flame retardant material can be used to quench any flames that may arise if a cell is punctured. The outputs and efficiencies are as follows: The conformal battery is soldier worn with benefits of less weight, less bulk, and higher run time. The battery is a polymer battery having high energy density which is lighter than existing power source. Conformal battery conforms to the shape of the soldier resulting in the product's weight not being centrally located. The battery also allows the soldiers to be more comfortable and have less weight concerns.</p> <p><i>FY 2010 Plans:</i> Contract award schedule for 1Q FY 2010. Completion of preliminary design review and alpha evaluation. In 4Q FY 2010, critical design review completed.</p> <p><i>FY 2011 Base Plans:</i> Beta units Development Testing/Operational Testing and Communications-Electronics Command Testing schedule for 2Q FY 2011, as well as procurement decision during 2Q-4Q FY 2011.</p>						
<p>Digital Solid State Combat Display (Navy)</p> <p>A successful project will provide the Department of the Navy with new digital solid-state displays suitable for thermal imaging systems. The new displays will provide for better discernment of targets from the Phalanx Thermal Imager (PTI) sensor thus improving the operational capability of Phalanx Close-in Weapon System (CIWS). The primary outputs and efficiencies to be demonstrated are: (1) provide significant improvement to the CIWS Total Ownership Cost due to increased reliability and supportability improvements; (2) deliver a ruggedized, lightweight, low power display that provides an extremely high quality picture that is viewable in daylight conditions; and (3) avoid RDT&E, Operations and Support and procurement costs of over \$46.000 million.</p>		0.831	0.246	0.000	0.000	0.000

UNCLASSIFIED

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>		PROJECT P051: <i>Defense Acquisition Challenge Program</i>	
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>Expeditionary Water Packaging System (EWPS) (Navy)</p> <p>A successful project will provide the United States Marine Corps (USMC) with an expeditionary hydration solution that will address safety hazards associated with the distribution of unregulated bottled water to deployed forces, as well as the severe logistics burden incurred. The EWPS will supply the Warfighter with a portable water packaging system for all phases of the Marine Expeditionary Unit, Marine Expeditionary Battalion, and Marine Expeditionary Force deployments. Projected completion of all testing events is FY 2011. The primary outputs and efficiencies to be demonstrated in the project are: (1) Provide the capability to package and distribute potable water for less than \$1.00 per liter; (2) increase warfighter survivability by eliminating the threat of contamination to unregulated packaged water through sabotage or indirect means; (3) increase operational flexibility of Marine forces deployed in expeditionary environments; and (4) avoids RDT&E, Procurement , and Operations and Support Life-Cycle costs of \$2.000 million, \$0.465 million, and \$65.000 million with a return on investment (ROI) of 46:1.</p> <p><i>FY 2009 Accomplishments:</i> Received initial DACP funding at the end of 1Q FY 2009. Initiated contract award preparation during 2Q FY 2009.</p> <p><i>FY 2010 Plans:</i> Finalize contract award at the early 2Q FY 2010. Receive test articles by the end of 2Q FY 2010. Initiate Qualification testing at the beginning of 3Q FY 2010 and complete by the end of 4Q FY 2010. Initiate Filed User Evaluation early 4Q FY 2010.</p>	0.753	1.232	0.000	0.000	0.000
<p>F-15 Digital Head Up Display (HUD) (Air Force)</p> <p>Demonstrate and document the flight characteristics and increased operational utility and reliability of a digital HUD over the analog display currently employed in the F-15 C/D aircraft. The goal is to qualify the item as a preferred spare for the F-15. The F-15 digital HUD project is scheduled for completion Q3 FY 2010. The lead service is Air Force. The primary outputs and efficiencies to be demonstrated</p>	2.015	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #113

Page 12 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>is \$2.800 million and manufacturing cost avoidance is \$6.000 million. Completion date is scheduled for September 2011.</p> <p><i>FY 2010 Plans:</i> Receive funding; receipt of samples; conduct current technology evaluation, analyze vendor data and conduct analysis/study/integration; procure for test articles.</p> <p><i>FY 2011 Base Plans:</i> Conduct project planning, Contract for test articles, conduct analysis/study/integration and analyze vendor data 2Q FY 2010. Prepare for initial technical testing and complete test report; procure OT test articles and perform operational testing. Complete OT test report and obtain safety confirmation.</p>						
<p>Handheld Total Fluid Condition Monitor (Special Operations Command)</p> <p>This qualification test project will evaluate an affordable, easy to use, handheld monitor that provides real-time, on demand, point-of-use, fluid condition assessment for hydraulic and lubrication oils, equal to current technologies, while simultaneously increasing readiness and significantly reducing cost of testing. Vendor will provide test articles configured specifically for the Army's Special Operations aviation fleet. The FluidScan handheld oil analysis system will be capable of meeting all oil evaluation and reporting requirements currently obtained via remote site testing. The primary outputs and efficiencies are as followed: FluidScan usable by average soldier to obtain on-the-spot fluid condition assessment in less than two minutes; system meets environmental compliance; equivalence to oil analysis in Tech Manual 38-301-2 determining contamination based on viscosity, moisture/water content, flash point, acidity, dispersancy, insolubles/total solids and particles/debris per Army Oil Analysis Program (AOAP) Technical Bulletin 43-0211. The RDT&E cost avoidance is \$8.500 million. Procurement cost avoidance is \$4.000 million. Operations and Support cost avoidance is \$6.500 million. Completion date is October 2010.</p>		0.727	0.567	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #113

Page 14 of 44

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<i>FY 2011 Base Plans:</i> Complete Performance testing 1Q FY 2011. Complete Technical Test Report and closeout report, and Mielstone C Decision 2Q FY 2011.						
<p>Hostile Fire Aid for the AN/AVR-2B Laser Detecting Set (Special Operations Command)</p> <p>This validation project evaluates the integration and testing of a new software Operational Flight Program (OFP) for the AN/AVR-2B laser detecting set (LDS) currently fielded on Army rotary wing aircraft. With the new software OFP, the LDS will utilize the existing A/B-Kit equipment to detect hostile small arms and rocket propelled grenades (RPG) fire events, and alert the aircrew via existing on-board equipment. The primary outputs and efficiencies are as follows: the new software OFP will utilize the laser beam rider detection channel to alert the aircrew of small arms, crew served, and RPG fires. The applicability of the Hostile Fire Aid technology insertion into the AN/AVR-2B will be evaluated and demonstrated. This project will collect data, develop software declaration algorithms, and live fire test the new software algorithms against hostile fire threats. RDT&E cost avoidance is \$15.000-20.000 million. Procurement cost avoidance at \$18.957 million. Operational and Support cost avoidance is \$12.255 million. Completion date is scheduled for May 2011.</p> <p><i>FY 2010 Plans:</i> Conduct software (S/W) integration and bench testing. Conduct ground development testing and collect aircraft noise data.</p> <p><i>FY 2011 Base Plans:</i> Complete data analysis and reporting. Complete S/W updates and algorithms & integration testing. Conduct live fire flight for technical/operational testing. Conduct data analysis and reporting. Complete S/W functional qualification test, prepare test report, and documentation for Milestone C Production Decision, and submit project closeout report 3Q FY 2011.</p>		0.000	0.841	0.510	0.000	0.510
Improved Flash Hider For M2 Heavy Barrel (M2HB) .50 Cal Weapons (Special Operations Command)		0.000	0.493	0.000	0.000	0.000

UNCLASSIFIED

UNCLASSIFIED

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>This comparative test project evaluates an improved flash hider for .50 Caliber machine guns, a user defined requirement for which a solution does not currently exist. The flash hider will reduce an enemies' ability to detect the weapon, and prevent operator's loss of night vision capability caused by the muzzle flash.</p> <p>The primary outputs and efficiencies are as follows: the major categories of operational requirements for the M2HB machinegun Flash Hider are fit, function, flash suppression, SOF environment, accuracy and service life: open system architecture with no tools required for attachment or removal; diameter no less than two inches and no greater than 1.5 inches; length no more than ten inches and no less than 6.6 inches; weight no more than 32 ounces and no less than 24 ounces; capable of withstanding 25,000 rounds without system degradation, and remaining intact and attached during catastrophic failure; removal and attachment will not be hindered by wearing cold weather gloves or NOMEX flight gloves, and no tools will be required for assembly or removal. RDT&E cost avoidance is expected to be \$0.900 million. Procurement cost avoidance is \$0.300 million. Operational and Support cost avoidance is \$12.500 million. Completion date is scheduled for December 2011.</p> <p><i>FY 2010 Plans:</i> Develop and publish performance specifications and solicit test samples. Conduct safety testing as well as technical and User Assessment One to support source selection. This will result in contracting action for test items and initiation of User Assessment Two/Operational Test and Evaluation.</p> <p><i>FY 2011 Base Plans:</i> Complete test reports and obtain Milestone C and Fielding and Deployment Release. Submit DAC closeout report 2Q FY 2011.</p>								
Improved Viper Strike PGM (Special Operations Command)				1.221	0.399	0.000	0.000	0.000
Viper Strike is an operationally fielded lightweight, precision-guided munition using Global Positioning Satellite (GPS) aided navigation and a semi-active laser (SAL) seeker to attack targets. This qualification test project will evaluate subsystems that reduce the cost and procurement lead times of								

UNCLASSIFIED

R-1 Line Item #113

Page 18 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>		PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2009 Accomplishments:</i> Test planning commenced 1Q FY 2009. Test article contracts awarded 3Q FY 2009. Performance testing and environmental testing completed 3Q FY 2009. Request for Information (RFI) responses received from nine vendors. Seven of the nine filer types were placed in a matrix for analysis of their compliance to the RFI. Three of the seven candidates were chosen for further testing and analysis. The preliminary down selectees were three candidates; Celeros EZSANfiler XDM34, Dot Hill 2322, and the Sun ST2510. Performance analysis, final down select, and procurement of test articles completed 3Q FY 2009.</p> <p><i>FY 2010 Plans:</i> The technical test report, Engineering Change Order (ECO), and project closeout report are anticipated 1Q FY 2010.</p>								
<p>Intelligent Power Management and Distribution System (IPMDS) (Army)</p> <p>This project will provide the Army with an IPMDS for the use in Tactical Operation Center mobile power grids. Additionally, it will reduce training time, fuel consumption and provide a more reliable power grid to mission critical equipment. Reports from the warfighters returning from Iraq and Afghanistan have reported issues with load balancing which leads to shutdown of power and potential harm to equipment. The Army will test non-developmental items from Custom Manufacturing & Engineering of Saint Petersburg, Florida, Lex Products, Inc. of Stamford, Connecticut and Rolls-Royce of Cheshire England. The intent is to transition to US Army Program Manager - Mobile Electric Power (PM-MEP) in FY 2011. The primary output and efficiencies will be demonstrated in the test are: (1) automatic electrical load balancing across the three phases of the generator set; (2) increased safety with indication of improper grounding and improper setup; (3) avoid RDT&E costs of \$5.000 million; and (4) avoid Operations and Support costs of \$10.000 million.</p>				1.979	0.809	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #113

Page 20 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>		PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
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				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2009 Accomplishments:</i> Contract were awarded to Custom Manufacturing and Engineering, Lex Products and Rolls-Royce for Distributed Generation Systems on three 100A and three 40A IPMDS boxes. Travel to contractor's facilities is planned for August 2009. Test Article delivery is anticipated during the 3Q FY 2010.</p> <p><i>FY 2010 Plans:</i> Test Article delivery is anticipated during the 3Q FY 2010. Initial electrical and safety testing will be completed during the 3Q FY 2010 at Fort Belvoir, Virginia. The operational testing will be conducted and completed during the 4Q FY 2010. A Milestone C Decision is anticipated at the beginning of the 1Q FY 2011. The technical test report and project closeout report are anticipated during the 1Q FY 2011.</p>								
<p>Joint Warfighter Biological Agent Sensor (Army)</p> <p>A competitive test and evaluation of an automated commercial-off-the-shelf Biological Agent identification sensor for performance and cost advantages to support the warfighter in high threat areas. The sensor will upgrade the currently fielded Joint Biological Point Detection System (JBPDS) and Joint Portal Shield (JPS) assay-based identifiers to reduce biological warfare agent exposure by identifying bacteria, viruses and toxins with one to three orders of magnitude increase in sensitivity within 15 minutes or less for the fielded sensors. The primary outputs and efficiencies to be demonstrated are as follows: (1) improved identification sensitivity performance in order to eliminate need for sensitivity waivers; (2) decreased operational and sustainment cost especially in the area of consumables; and (3) supported hardware commonality to include both JBPDS and JPS systems. RDT&E cost savings: \$14.000 million based on cost analogy from the original JBPDS from 1996 to when it entered Low Rate Initial Production (LRIP) in 2001. Operation and Support Life-Cycle cost savings is estimated \$4.000 - \$6.000 million based on reduction of cost of consumables. Procurement cost savings is \$0-0.040 million per system. Fielding reduction is two years. Procurement potential is approximately</p>				1.376	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #113

Page 21 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>		PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>cost avoidance is \$1.000 million and procurement cost avoidance is \$0.500 million. Completion date is August 2011.</p> <p><i>FY 2009 Accomplishments:</i> Conducted project planning with established Integrated Project Team (IPT). Coordinate with contracting official to complete contract for test articles by February 2010.</p> <p><i>FY 2010 Plans:</i> Manufacture and receive test articles and prepare for initial technical testing.</p> <p><i>FY 2011 Base Plans:</i> Analyze vendor data. Conduct combined developmental and operational testing. Prepare test report, prepare documentation for Milestone C Decision and submit project closeout report 4Q FY 2011.</p>								
<p>Omni-Directional Antenna for M156 Magneto Inductive Remote Activation Munition System (MI-RAMS) (Army)</p> <p>This project will dramatically reduce time on target (mission survivability) and increase mission effectiveness through higher operational reliability in challenging target environments (underwater, urban, littoral, night operations, constrained target sets). This improvement in functionality of the MI-RAMS would result in the reduced numbers of receivers that would be procured and deployed. The estimated total RDT&E, manufacturing and procurement cost avoidance of \$20.000 million will be realized with the proposed enhanced capability. The activities conducted in FY 2009 were the delivery of the Omni directional antennas test quantities, and performance/environmental testing which included user assessment.</p>				0.779	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #113

Page 27 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>for additional N-Stor (metal hydride) cartridges; and (5) assembled final units for official Air Worthiness Testing (AWT) and qualification, and additional Air Force Research Laboratory (AFRL) testing.</p> <p><i>FY 2010 Plans:</i> The DAC-sponsored portion of the program is scheduled to be completed by end 1Q FY 2010 with AWT to continue during FY 2010. Additional funds will be sought from other sources to support integrating user defined modifications identified during AWT and Operational Test and Evaluation (OT&E). Future plans are for the production of 1000 PEPSAE units based on these modified systems.</p>						
<p>Sensor Fusion Clip-On Night Vision Device for SOF Combat Assault Rifle (Special Operations Command)</p> <p>This competitive test project will evaluate a Sensor Fusion Clip-on Night Vision Device (CNVD) for the Special Operations Forces (SOF) Combat Assault Rifle (SCAR) that integrates the technologies of both thermal and image intensification into one sight. This will provide the SOF warfighter a greater advantage when operating in austere environments. The primary outputs and efficiencies are as follows: (1) demonstrate significant improvement in target acquisition in rain, mist, smoke, vegetation, fog, dust, and low light; (2) the RDT&E cost avoidance is \$7.000 million; (3) manufacturing cost avoidance is \$13.000 million; (4) procurement cost avoidance is \$48.000 million; and (5) Operations and support cost avoidance is \$2.800 million. Completion date is scheduled for September 2010.</p> <p><i>FY 2009 Accomplishments:</i> Developed performance specifications.</p> <p><i>FY 2010 Plans:</i> Conduct solicitation and down select. Receive oral presentations and product samples. Conduct technical evaluation; user operational assessment; finalize technical and operational test report. Obtain Low Rate Initial Production (LRIP) decision and complete LRIP procurement contract for first article test items.</p>		0.000	0.561	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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2010 Plans:</i> Contract and acquire test articles. Obtain safety release to conduct technical testing. Perform technical and user assessment/operational testing. Attain Joint Interoperability Test Command certification. Complete all test reporting.</p> <p><i>FY 2011 Base Plans:</i> Prepare documentation for Milestone C Production Decision and complete project closeout report 1Q FY 2011.</p>						
<p>Tactical Vehicle Battery – Replacement (TVB-R) (Navy)</p> <p>A successful project will provide the United States Marine Corps (USMC) with a higher energy density, comparable power capability, and greater deep-discharge cycle life compared to the current 6T lead acid battery. A two-year project under sponsorship of the DAC and Marine Corps Systems Command Program Manager Expeditionary Power System. Projected completion of all testing events is FY 2011. The primary outputs and efficiencies are as follows: (1) drop in replacement for lead acid batteries; (2) Increase energy density ranging from three to five times over lead acid; (3) ten times more deep discharge cycles than lead acid; and (4) avoids RDT&E cost of \$10.000 - \$20.000 million with a Return on Investment (ROI) of 82:1.</p> <p><i>FY 2010 Plans:</i> Receive DAC funding and initiated the Contract Award preparation at the end of 2Q FY 2010. Receive Phase I test articles and initiate comparative test 3Q FY 2010. Initiate Data Analysis/Evaluation/Downselect of Phase I test articles 4Q FY 2010.</p> <p><i>FY 2011 Base Plans:</i> Complete Phase I down selection 1Q FY 2011. Exercise Contract Option and receive test articles for Phase II test efforts 2Q FY 2011. Initiate Phase II Performance test and Field User Evaluation 3Q FY</p>		0.000	0.862	0.500	0.000	0.500

UNCLASSIFIED

R-1 Line Item #113

Page 38 of 44

UNCLASSIFIED

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 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>		PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
2011. Complete Phase II test events, technical test report and make Milestone C Decision 4Q FY 2011.								
<p>Upgraded External Auxiliary Power Unit (U-EAPU) (Navy)</p> <p>This project will evaluate an U-EAPU that is capable of providing a sufficient secondary power source, effectively eliminating the reliance on using a vehicles primary engine or power system. The upgrades will increase operational effectiveness, lethality, survivability, and prevent incidents of fratricide. A two year project under sponsorship of the DAC and Marine Corps Systems Command, Program Manager Expeditionary Power Systems. Projected completion of all testing events is FY 2010. The primary outputs and efficiencies are as followed: (1) Supplemental power to a wide range of tactical vehicles to operate vehicle systems including communication suites, Improvised Explosive Device (IED) defeat equipment, fire control systems, M1A1 turret drive and Chemical, Biological, Radiological and Nuclear protective systems; (2) 50 percent reduction in noise intensity (acoustic signature), increased reliability and increased power output in similar sized units; (3) RDT&E, Operations and Support Life-Cycle cost avoidances of \$8.000 million and \$20.000 million with a Return on Investment (ROI) of 37:1.</p> <p><i>FY 2009 Accomplishments:</i> Contract Awarded and Source Selection completed in 1Q FY 2009. Phase I test articles received and comparative testing initiated in 2Q FY 2009. Completion of Phase I comparative testing and data analysis/down selection at end of 3Q FY 2009. Completed Phase II contract award and received Phase II test articles at beginning of 4Q FY 2009. Initiated and completed procurement testing and field user evaluation (FUE) at the end of 4Q FY 2009.</p> <p><i>FY 2010 Plans:</i> Finalize technical test report, closeout report and Milestone C Decision by the end of 1Q FY 2010.</p>				0.493	0.000	0.000	0.000	0.000
FY 2011 Plans				0.000	0.000	13.597	0.000	13.597

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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 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>		PROJECT P051: <i>Defense Acquisition Challenge Program</i>				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>The Defense Acquisition Challenge Program (DACP) will continue to fund testing activities on an estimated 15 continuing projects executing \$10.747 million. Remaining funding of \$13.597 will be used to initiate new start DACP projects selected from the FY 2011 DACP proposal process. The FY 2011 final proposal selection process is scheduled for 4Q FY 2010.</p> <p><i>FY 2011 Base Plans:</i> Initiate new start projects.</p>								
<p>Microelectronics Technology Development and Support (Defense Microelectronics Activity)</p> <p>Defense Microelectronics Activity (DMEA) was established in 1966 by the Office of the Secretary of Defense to act as the joint DoD Center for microelectronics acquisition, transformation, and support. The DMEA mission is to develop, develop, and demonstrate microelectronics concepts, advanced technologies, and applications to provide a pathway to extend the life of weapon systems and to solve operations problems (e.g. reliability, maintainability, performance, and assured supply). DMEA's capabilities make it a key tool in the intelligent and rapid development and application of advanced technologies to identified military needs. This includes implementation of advanced microelectronics research technologies providing for the development and long-term support structure necessary to ensure rapid design, fabrication, test, insertion, and support of microelectronics technologies. The DMEA provides an in-house capability to support these strategically important technologies within the DOD. DMEA has been singled out as a unique national resource by the warfighters, industry and foreign governments. Funds are required for investments and expenses for personnel, technical and analytical support, facilities, equipment, supplies, travel, publications.</p> <p><i>FY 2009 Accomplishments:</i> Implemented an advanced microelectronics research technologies providing for the development and long-term support structure necessary to ensure rapid design, fabrication, test, insertion, and support of microelectronics technologies.</p>				1.000	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 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>
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B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Accomplishments/Planned Programs Subtotals	26.979	28.629	24.344	0.000	24.344

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

N/A

D. Acquisition Strategy

The Acquisition Strategy for Defense Acquisition Challenge Program (DACP) is as outlined in Title 10. DACP is to provide opportunities for the increased introduction of innovative and cost-saving technology in acquisition programs of the Department of Defense. DACP funding is used to fund testing of commercial and non-developmental items that could result in improvements in performance, affordability, manufacturability, or operational capability of an existing acquisition program. It is expected that, should testing be successful, the respective current acquisition program will procure.

E. Performance Metrics

From program inception in 2003 until 2009, the Office of Secretary of Defense has initiated 119 projects; 60 projects have been completed to date; 45 met Service or Agency testing requirements and 35 led to procurements. To date, 30 projects have yielded technology currently in use by our warfighters in Iraq, Afghanistan, or at U.S. training facilities. In FY 2009 DACP had a transition rate of 77 percent for completed projects, exceeding the objective of 30 percent for demonstration programs (Strategic Objective 4-3, Office of the Under Secretary of Defense, Acquisition, Technology & Logistics (OUSD (AT&L))). In FY 2009, 57 percent of the projects were awarded to small or mid-sized businesses and 50 percent were awarded to companies indicating "first-time" participation with the Department of Defense.

UNCLASSIFIED

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Office of Secretary Of Defense **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>
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Product Development (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Various Projects under Defense Acquisition Challeng Program	SS/Various	Various DC, District of Columbia	26.979	28.629	Oct 2009	24.344	Oct 2009	0.000		24.344	0.000	79.952	Continuing
Subtotal			26.979	28.629		24.344		0.000		24.344	0.000	79.952	

Remarks

Test and Evaluation (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			0.000	0.000		0.000		0.000		0.000			

Remarks

Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
		Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Project Cost Totals	26.979	28.629		24.344		0.000		24.344	0.000	79.952	

Remarks

UNCLASSIFIED

R-1 Line Item #113

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Office of Secretary Of Defense		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>

	FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015			
	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
FY 2011 Planned Output									■	■	■	■	■	■	■	■												
FY 2011 Project Selections								■																				
Funding Received (estimate)									■																			
Procure Test Items										■																		
Delivery of Test Items											■	■																
DACP Project Test Plans Finalized											■	■																
DACP Project Testing														■	■	■												
DACP Final Testing and Closeout Reports																			■	■								

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Office of Secretary Of Defense		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604051D8Z: <i>Defense Acquisition Challenge Program (DACP)</i>	PROJECT P051: <i>Defense Acquisition Challenge Program</i>

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
FY 2011 Planned Output	1	2011	4	2012
FY 2011 Project Selections	4	2010	4	2010
Funding Received (estimate)	1	2011	1	2011
Procure Test Items	2	2011	2	2011
Delivery of Test Items	3	2011	4	2011
DACP Project Test Plans Finalized	3	2011	4	2011
DACP Project Testing	3	2012	1	2013
DACP Final Testing and Closeout Reports	1	2013	2	2013

UNCLASSIFIED

R-1 Line Item #113

Page 44 of 44