Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program

DATE: February 2011

BA 5: Development & Demonstration (SDD)

APPROPRIATION/BUDGET ACTIVITY

,	'										
COST (\$ in Millions)			FY 2012	FY 2012	FY 2012					Cost To	
COST (\$ in Millions)	FY 2010	FY 2011	Base	oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
Total Program Element	36.293	24.344	-	-	-	-	-	-	-	Continuing	Continuing
P051: Defense Acquisition Challenge Program	25.970	24.344	-	-	-	-	-	-	-	Continuing	Continuing
P052: Contingency Acquisition Support Model (cASM)	10.323	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

Defense Efficiency – Baseline Review. As part of the Secretary of Defense's efficiency reform agenda for the Department, a zero-based review of the organization's programs to align resources to the most critical priorities and eliminate lower priority functions was performed. As part of this initiative, the Defense Acquisition Challenge Program (DACP) will complete FY11 efforts, and will be terminated in FY12.

A. Mission Description and Budget Item Justification

Authorized by Title 10, U.S. Code, Section 2359b, the Defense Acquisition Challenge (DAC) Program increases opportunities to insert innovative and cost-saving technologies into Department of Defense (DoD) acquisition programs. DAC 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. Reflective of DoD programmatic decisions, the Defense Acquisition Challenge program is terminated in FY 2012.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	28.629	24.344	30.319	-	30.319
Current President's Budget	36.293	24.344	-	-	-
Total Adjustments	7.664	-	-30.319	-	-30.319
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	-			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
 Reprogrammings 	8.284	-			
SBIR/STTR Transfer	-0.537	-			
Other Adjustment	-0.083	-	-	-	-
Defense Efficiency – Baseline Review	-	-	-30.319	-	-30.319

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of S	Secretary Of Defense	DATE: February 2011						
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition	Challenge (DAC) Program						
Change Summary Explanation								
Defense Efficiency – Baseline Review. As part of the Secreta organization's programs to align resources to the most critica	r – Baseline Review. As part of the Secretary of Defense's efficiency reform agenda for the grams to align resources to the most critical priorities and eliminate lower priority functions age Program (DACP) will complete FY11 efforts, and will be terminated in FY12.							

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary Of Defense							DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)								PROJECT P051: Defense Acquisition Challenge Program			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P051: Defense Acquisition Challenge Program	25.970	24.344	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Authorized by Title 10, U.S. Code, Section 2359b, the Defense Acquisition Challenge (DAC) Program increases opportunities to insert innovative and cost-saving technologies into Department of Defense (DoD) acquisition programs. DAC 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 (OSD) has initiated 133 projects; 66 projects have been completed to date; 59 met Service or Agency testing requirements and 36 led to procurements with technology currently in use by our warfighters in Iraq, Afghanistan, or at U.S. training facilities. Given the program tests developed equipment, service and United States Special Operations Command (USSOCOM) program managers report that the average Research, Development, Test and Evaluation (RDT&E) and Operations and Support (O&S) non-recurring cost avoidance is at least 5-to-1.

The DAC program provides the department an efficiency that is not generally recognized. With centralized DAC funding in OSD, funding can be readily moved among the Services and USSOCOM to take advantage of emerging opportunities and fund joint projects.

DAC increases opportunities for domestic vendors to enter the DoD acquisition process. Although business size is not an evaluation criterion, approximately 60 percent of the projects awarded are with technology providers at the small or mid-sized enterprise level. DAC has the additional DoD/National Security benefit of expanding the industrial base for defense acquisition.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012	
Title: Advanced Infrared (IR) Expendable Decoy (Air Force)	2.639	-	-	
Description: Evaluate a small kinematic infrared (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 reject conventional non-kinematic flares. The primary outputs are the protection of medium-signature aircraft against heat-seeking missiles that employ kinematic techniques. This flare is much more compact than existing designs, enabling more decoys to be carried per mission.				
FY 2010 Accomplishments:				

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
2500 flares tested captive seeker flight qualification for protecting the and trajectories were measured at operational airspeeds and altitude functional assessment qualification testing was completed. Preparat	s. All hazard/safety assessment, durability assess				
<i>Title:</i> Advanced Radio Frequency Distribution Unit (RFDU) for Impro appropriation and/or Congressional new start authority.	ved SIGINT (Navy) - Contingent upon Congression	al	-	1.530	-
Description: This project will test and evaluate a Signals Intelligence on Program) that allows the detection of weak radio frequency signal Interference (EMI). This technology will replace a closed, obsolete p system that is easily scalable to meet future mission needs.	s in the presence of strong shipboard Electromagn	etic			
FY 2011 Plans: Contract for test articles 2Q FY 2011. Delivery of test articles 3Q FY 2011.	2011. Environmental testing and evaluation 3Q –	4Q FY			
FY 2012 Plans: Range testing and shipboard installation and testing 1Q – 2Q FY 201 procurement decision 3Q FY 2012.	2. Complete technical report, closeout reports and				
Title: Automated Digital Network System (ADNS) Wide Area Network	k (WAN) Optimization Challenge (Navy)		1.252	1.170	-
Description: Test commercial off the shelf products to upgrade function compression for the ADNS. Sailors on Carriers complete IT missions (cable modem). This project will allow full realization of current satelly	s using roughly the same network capacity as a hor				
FY 2010 Accomplishments: Developed testing evaluation criteria and received test articles during Preliminary down select completed 4Q FY 2010.	g 3Q FY 2010. Conducted integration and laborator	ry testing.			
FY 2011 Plans: Continue laboratory testing and evaluations 1Q – 2Q FY 2011. Provi Procurement decision 4Q FY 2011.	ide test report 2Q FY 2011. Acceptance Testing 30	Q FY 2011.			
Title: B-2 Stores Management System (SMS) Test Program Initiative	e (Air Force)		1.368	2.147	-
Description: Test an on-aircraft B-2 SMS test diagnostic capability. linked through MIL-STD 1760 interfaces can jeopardize a B-2's ability					

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APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)		PROJECT 051: Defense Acquis	sition Challeng	ge Program
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
will test configured weapon station interface serviceability, assess we end weapon stores functions.	eapon release equipment integrity and troubleshoot en	d-to-		
FY 2010 Accomplishments: Established initial Test Package Set technical performance requirem equipment items, and completed all required contracting actions through		;		
FY 2011 Plans: Establish and demonstrate a test set package, Smart Bomb Rack As level-3 drawings for follow-on local manufacture.	sembly, including all interface hardware and associate	ed		
FY 2012 Plans: Closeout report and procurement decision by 4Q FY 2012.				
Title: Biological Aerosol Confidence Check Device (Army)		0.728	0.411	-
Description: Test a ruggedized Bio Aerosol Confidence Check Devi aerosol detection system is working properly. Joint Services will utili training, and provide confidence to the warfighter.	•	- 1		
FY 2010 Accomplishments: Contract awarded in 4Q FY 2010. Government testing with device e System.	valuated in fielding plan for Joint Biological Point Dete	ction		
FY 2011 Plans: Complete testing evaluation and user assessment. Procurement de-	cision 4Q FY 2011.			
Title: Composite Segmented Reflector Antenna for Satellite Commu	nication Systems (Air Force)	0.547	0.430	-
Description: Test a light-weight, compact, durable, segmented comsatellite communications and other systems, in the X, Ka, and Ku fre size reduction, and increased transport advantages over the currently	quency bands. The primary outputs are weight reduct	ion,		
FY 2010 Accomplishments:				

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Test and production contracts awarded. Parabolic geometry/design established. Mechanical design of interchangeable X, Ku, and Ka bawith 50+ units integrated and deployed to Afghanistan through JSOC	and reflectors completed. First reflector prototype				
FY 2011 Plans: Conduct structural, environmental, and operational field testing of Kudishes (USSOCOM). Construct and test revised petal latching mech procurement x-band assets for integration and field deployment (USS demonstrate Ku/Ka-band 60cm aperture segmented reflectors.	nanism for new extreme wind load requirements.	Continue			
Title: Conformal Warfighter Wearable Battery Power Source (CWS)	(Army)		1.259	0.491	-
Description: Test a wearable power source for the Soldier that can attachment, providing flexibility for use as a wearable battery pack petemperature performance. This Lithium-ion polymer battery uses pher FY 2010 Accomplishments:	ower source which is bullet safe with improved hi ase change material that removes heat from the	gh battery pack.			
Placed on Joint contract with the United States Air Force Research L Manager Soldier Warrior team.	_ab contracting and technical team and the US A	rmy Project			
FY 2011 Plans: Procure additional test batteries and perform logistics tests and enging Transport Association (IATA) certification, Safety Assessments, and completion of testing.	•				
Title: Dynamic Modems (Navy) - Contingent upon Congressional ap	propriation and/or Congressional new start autho	rity.	-	1.717	-
Description: This project will test commercial off the shelf modem p Multiband Terminal (NMT) program. Dynamic modems provides a b and would replace the Frequency Division Multiple Access wideband	andwidth sharing capability, drastically increasing				
FY 2011 Plans: Contract for test articles 2Q FY 2011. Conduct baseline testing during	ng 3Q – 4Q FY 2011.				
FY 2012 Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Conduct Dynamic Digital Video Broadcast – Satellite Generation 2 (I packet and final test report 3Q FY 2012. Closeout report and procur	,	e decision			
Title: Expeditionary Water Packaging System (EWPS) (Navy)			1.189	-	
Description: Test a water packaging solution that will alleviate safet distribution of unregulated bottled water to deployed forces. The EW phases of the Marine Expeditionary Unit, Marine Expeditionary Batta primary outputs are provide the capability to package and distribute purvivability by eliminating the threat of contamination to unregulated increase operational flexibility of Marine forces deployed in expeditional flexibility of Marine flexibility	VPS will provide a portable water packaging systemalion, and Marine Expeditionary Force deployments potable water for less than \$1.00 per liter, increased packaged water through sabotage or indirect meanary environments.	n for all s. The e warfighter ans, and			
articles during 4Q FY 2010. FY 2011 Plans: Receive test articles during 1Q FY 2011. Initiate Qualification testing Initiate Field User Evaluation during 2Q FY 2011 and complete during 10 FY 2011.					
and procurement decision by the end of 4Q FY 2011.		•			
Title: Fully Integrated Fire Control Solution for Machine Guns (Speci	ial Operations Command)		1.040	2.571	
Description: Competitively evaluate a fully-integrated modular fire c a family of machine gun day optics, thermal, and night vision system system that will provide the Special Operations Forces warfighter wit weather, and extreme low light and improved detection capability for explosive devices.	is. The primary efficiency is a night vision augmer th sighting and target acquisition capability in smol	itation ke, adverse			
FY 2010 Accomplishments: Obtained vendor test samples, and conducted technical evaluation. Awarded contract for low rate initial production (LRIP) test articles.	Conducted down select evaluation of available da	ta.			
, marada deria der leir leir rate initial production (Er in) teet articles.					

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Receive test articles. Conduct operational testing, and obtained safety Phase Two Integration with design of control module, and M2 Rail Integration.					
FY 2012 Plans: Conduct integration test and prepare test reports. Obtain milestone de closeout report.	ecision and fielding and deployment release. Sເ	ıbmit			
Title: Handheld Total Fluid Condition Monitor (Special Operations Cor	mmand)		0.504	-	_
Description: Test an affordable, easy to use, handheld monitor that p assessment for hydraulic and lubrication oils. The primary outputs are on-the-spot fluid condition assessment in less than two minutes, a sys with Army standards for oil analysis.	e a FluidScan system usable by the average solo	dier to obtain			
FY 2010 Accomplishments: Received test articles. Conducted analysis, study, and analysis of ver and initial user testing. Completed Technical Test Report.	ndor's test data. Initiated 60-day developmental	technical			
FY 2011 Plans: Complete analysis of vendor data. Take delivery of Aircraft Version te testing. Finalize test reports. Prepare documentation and obtain mile		pmental			
<i>Title:</i> Herculite XP Glass for Bombing Hazard Reduction (Air Force) - Congressional New Start Authority	- Contingent upon Congressional appropriation a	nd/or	-	0.983	-
Description: Test a new high strength tempered glass which will provannealed or fully tempered glass. Provides higher levels of protection, medical facilities and other primary gathering facilities in Afghanistan and other primary gathering facilities and other primary gathering gathering gathering facilities and gathering gath	, with less glass weight and less cost, for DoD ba	arracks,			
FY 2010 Accomplishments: Established initial Test Plan and technical performance requirements in	in preparation for FY11 performance testing.				
FY 2011 Plans: Complete level of protection testing. Test results will lead to qualified storefront applications of Herculite XP glass.	window designs and specifications for punched	and			
Title: High Mobility Multipurpose Wheeled Vehicle (HMMWV) Suspen	sion Upgrades (HSU) (Out-of-Cycle) (Navy)		2.060	-	-

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0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program	P051: Defens	se Acquis	ition Challeng	ge Progran
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2010	FY 2011	FY 2012
Description: Competitively test multiple HMMWV Suspension Upgra overall performance to deliver a suspension that restores designed p increased stability). The primary outputs are improved survivability a due to increased payload, off-road performance, and reliability.	erformance specifications (payload capacity, ride hei	ght and			
FY 2010 Accomplishments: Request for Proposal (RFP) package released and responses receive beginning of 4Q FY 2010. Test article contract awarded at the end of 4Q FY 2010.		the end			
FY 2011 Plans: Complete fabrication and delivery of test articles during 1Q FY 2011. and complete testing by the end of 2Q FY 2011. Finalize technical teend of 3Q FY 2011.					
Title: High Energy Density Rechargeable Battery (Army) - Contingen new start authority.	t upon Congressional appropriation and/or Congress	ional	-	0.990	
Description: Test and certify a 300Whs BB2590 battery. Using the a developed in house, this technology offers 50 percent more energy the control electronics will provide high power capability and dynamic cell battery life, increased system survivability, and increased mobility.	nan the currently fielded BB2590. Embedded advanc	ced			
FY 2011 Plans: Technical testing 2Q FY 2011. Field testing 3Q – 4Q FY 2011.					
FY 2012 Plans: Purchase additional test assets and undergo Logistics Tests and engwill be an evaluation of overall performance, with procurement decisions.		2, there			
Title: Hostile Fire Aid for the AN/AVR-2B Laser Detecting Set (Special	al Operations Command)		0.748	0.627	
Description: Test and integrate a new software Operational Flight Procurrently fielded on Army rotary wing aircraft. The new software OFF propelled grenades (RPG) fire events, and alert the aircrew via existing new software OFP that utilizes the laser beam rider detection channel and rocket propelled grenade fire. Live-fire test of the new software as	will provide for detection of hostile small arms and ring on-board equipment. The primary output efficience to alert the aircrew of small arms, crew served wear	ocket by is the pons,			

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
FY 2010 Accomplishments: Conducted software integration and bench testing. Conducted ground	nd developmental testing and collected aircraft no	ise data.			
FY 2011 Plans: Complete data analysis and reporting. Complete software updates a technical/operational testing. Conduct data analysis and reporting. reports. Compile documentation for production milestone decision.	Complete functional qualification testing and prep				
Title: Improved Flash Hider For M2 Heavy Barrel (M2HB) .50 Cal We	eapons (Special Operations Command)		0.438	-	-
Description: Evaluate an improved flash hider for .50 caliber machin detect the weapon and prevent operator's loss of night vision capabil efficiencies are system architecture with no tools required for attachn Special Operations Forces requests, and capable of withstanding 25 FY 2010 Accomplishments: Developed and published performance specifications and solicited in and the Single Acquisition Management Plan. Obtained Safety Rele Completed source selection and subsequent contracting action for test and Evaluation.	lity caused by the muzzle flash. The primary outponent or removal, weight and size reductions that r ,000 rounds without system degradation. Industry for test samples. Updated Source Selections to support initial user assessment for technical	uts and espond to on Plan al testing.			
FY 2011 Plans: Complete operational/user assessment test and complete test report release. Complete project closeout report 3Q FY 2011.	s. Obtain production decision, fielding and deplo	ment			
Title: Improved Viper Strike Precision Guided Munitions (Special Op	erations Command)		0.355	-	-
Description: Evaluate subsystems that reduce the cost and procure while maintaining or improving operational attack capability of the Vigare to demonstrate ASAL form, fit and function replacement to existing capability.	per Strike munitions. The primary outputs and eff	ciencies			
FY 2010 Accomplishments: Completed ASAL engineering and software development as well as I testing with battle management system. Received initial ASAL Flight and prepared test report. Fielded initial ASAL variant to Overseas Complete States of the com	t Test Articles. Conducted operator/user assessn				
FY 2011 Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions)		FY	2010	FY 2011	FY 2012
Finalize integration of testing with battle management system. Recei end system live fire testing at China Lake Test Range, CA. Complete closeout report 2Q FY 2011. Field ASAL capability.					
Title: Intelligent Power Management and Distribution System (IPMDS	S) (Army)		0.717	-	-
Description: Test a 100 amp power management and distribution sy requirements for Tactical Operations Centers. Goals are reduce seturobust power grid setup, increase soldier safety around electrical power generators. The primary outputs are automatic electrical load bala increased safety with indication of improper grounding and improper	up time of mobile power grids, allow for a more reliable ver equipment, and allow for more efficient fuel consulucing across the three phases of the generator set as	mption			
FY 2010 Accomplishments: Test Article delivered in 3Q FY 2010. Initial electrical and safety teste Environmental and Electro-magnetic Interference tested from 3Q FY MD.					
FY 2011 Plans: Operational testing will be conducted and completed during the 2Q F 2011. Limited procurement in 3Q FY 2011.	Y 2011. Technical test report developed during the 2	Q FY			
Title: JP-8 Operated Modified Commercial Generator (Army)			0.425	0.082	-
Description: Test JP-8 operated modified commercial generator sets electrical and environmental requirements. If successful, potential be burden on the Warfighter, and added capability via forward use of possible soldier-portable, logistic fueled, one kilowatt power source for tactical	enefits include reduced fuel consumption, reduced we wer sources. The primary outputs are fielding of the	eight			
FY 2010 Accomplishments: Received and evaluated proposals. Awarded contract to Sonnex Redetermine the extent of modification required in order to meet perform		ation to			
FY 2011 Plans: Test article delivery expected end of 1Q FY 2011. Government testir Procurement decision will be made by 4Q FY 2011 based upon succession.		′ 2011.			
Title: Large Aircraft, Low-Cost, Lightweight, Laser Turret Assembly S	Spiral (LAIRCM) (Air Force)		0.766	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Description: Test suitability of the AIM-9 based Quiet Eyes turret could Laser (QCL) for use in large aircraft systems and to field as a compat primary outputs are the validation of the laser turret assembly to prote the existing large aircraft infra-red countermeasure turret assembly.	ible "suitable substitute" for the existing LAIRCM	turret. The			
FY 2010 Accomplishments: Contracted for and procure test articles. Integrated laser with turret. Government-sanctioned technical testing. Prepared decision package		nitial			
FY 2011 Plans: Integrate laser with turret. Conduct Contractor integration and perforr validate suitability. Prepare decision package for implementation and		ce testing to			
Title: Lightweight, Reliable, Increased Capacity Magazine for Special Operations Command)	Operations Forces Combat Assault Rifle (Speci	al	0.367	0.793	
Description: Test advanced, more reliable, lightweight polymer or he Operations Forces Combat Assault Rifle (SCAR) MK 16 (light), and M advanced magazine design that is injection molded of state-of-the-art inserted in the weapon, prevents outside contaminants from entering primary outputs and efficiencies will be new magazines that provide a unaffected by rust or corrosion, and can easily be cleaned in the field.	MK 17 (heavy). The candidate magazines will proplement plastic resin or heat-treated hard anodize metal from either the magazine itself or the magazine idditional ammunition capacity for MK 16 and Mk	ovide an , and once well. The			
FY 2010 Accomplishments: Prepared and issued solicitation and obtained test article samples. P selection.	erformed technical, go/no-go testing in support o	of source			
FY 2011 Plans: Perform technical, go/no-go testing in support of source selection. Re of magazines to complete first article testing. Obtain procurement decloseout report 4Q FY 2011.					
Title: Lightweight Surveillance and Battle Damage Assessment Device appropriation and/or Congressional new start authority.	ce (LW-SBDAD) (Army) - Contingent upon Congr	ressional	-	0.564	

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Description: Test a lighter, smaller and cheaper alternative to the culbs in weight and has bulky dimensions, which make it non user friend weight by 40 percent and provide a cost savings of 40-60 percent per	dly. If successful, this DAC project will reduce the				
FY 2011 Plans: Laboratory and operational testing will be performed at Aberdeen Pro Collimation, Resolution, Laser Eye Protection, Focus, and Image Tilt/ environmental effects (temperature, shock, drop, humidity, salt, fog, evarious combat scenarios with and without protective clothing. Procureport 1Q FY 2011.	Parallax tests. APG tests will include evaluation of etc.) and Man Power and Personal Integration Eva	of aluations in			
Title: Low Cost SQS-53 Improved Sonar Acoustic Window (ISAW) (N	lavy)		1.117	1.807	-
Description: Install and test at sea an improved sonar acoustic wind constructed of a new composite material optimized to meet both struct demonstrated are reduced lifecycle costs, longer service life, simplified personnel due to the elimination of the requirement for hyperbaric entire material optimization of the requirement for hyperbaric entire material optimization.	ctural and acoustic requirements. Benefits to be ed maintenance and improved safety for maintena	ance			
FY 2010 Accomplishments: Conducted acoustic and structural testing of ISAW components and t and began build of the test article in 3Q FY 2010. Constructed test st installation work package in 4Q FY 2010. Developed statement of we the test ship.	and for land based testing 3Q FY 2010. Develop	ed shipyard			
FY 2011 Plans: Install test articles 1Q FY 2011. Complete phase two of the sonar eleand layup of the sonar system during 2Q FY 2011. Complete sea test					
FY 2012 Plans: Install new sonar cables, transducers, and ISAW during the ship yard articles and project closeout during 2Q FY 2012.	availability in 1Q FY 2012, followed by at sea tes	sting of test			
Title: M1A1 Sniper Detection System (SDS) (Navy)			0.097		

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Description: Test a Sniper Detection System that near instantaneou round has been fired, improving the safety of tank crews and dismourand lethality of the M1A1 Tank, and increasing survivability and situation	nted infantry. The primary outputs are improved				
FY 2010 Accomplishments: Received test articles and completed M1A1 integration and user intercompleted during 3Q FY 2010. Operational testing completed at the an environment for an acoustic system; therefore the effort was terminated by the complete of the effort was terminated by the effort was terminated b	end of 3Q FY 2010. Testing revealed the M1A1	is too noisy			
FY 2011 Plans: Finalize closeout report during 1Q FY 2011.					
Title: Modular Ghillie Suit and Ghillie Suit Accessory Kit (Army) - Cor Congressional new start authority.	ntingent upon Congressional appropriation and/o	ſ	-	0.534	-
Description: The Modular Ghillie Suit (MGSAK) and Ghillie Suit Accessipers with a Flame Resistant Base Layer and various camouflage r GSAKs to meet unique mission and climatic requirements. It also pro	multi-functional materials to construct, repair, and	modify			
FY 2011 Plans: Perform testing to verify the systems meet the performance paramete Operational Testing to validate whether the MGSAK and GSAK will not the GSAK and Core Soldier System requirements. Procurement decided to the content of the conten	neet or exceed the durability and reliability requir				
Title: Next Generation Night Vision Imaging Technology (Special Op	erations Command)		0.411	0.295	-
Description: Test low-light camera technology for applications in new Visual Augmentation Systems in place of Image Intensification Tube integrated into handheld, head worn, and weapon-mounted night-visi improvement in resolution from the current state of 40 line pairs/ milling consumption from three watts to 1.5 watts or less, increase the detection security.	technology. These image fusion components wi ion systems. The primary efficiencies are to dem meter (lp/mm) to a minimum of 50 lp/mm, reduce	l be onstrate power			
FY 2010 Accomplishments:					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secr	retary Of Defense		DATE: Fel	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program		PROJECT P051: Defense Acquisition Challeng		ge Program
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Procured/contracted for test articles. Conducted Preliminary Design Sensor (EBAPS) into the Recon III handheld night vision goggles.	Review of integrated Electron Bombarded Active	Pixel			
FY 2011 Plans: Conduct Critical Design Review. Receive integrated EBAPS/Recontechnical testing. Analyze vendor test data.	III night vision goggle test articles and conduct ini	tial vendor			
FY 2012 Plans: Conduct combined developmental and operational testing. Prepare to project closeout report 1Q FY 2012.	testing and documentation for production decision	n. Complete			
<i>Title:</i> Package on Package Technology for ARC-210 Radio (Navy)			0.599	0.300	
Description: Test Package on Package (POP) technology which is t (BGA) microelectronic packages that enables increased capabilities a capability and functionality growth in the ARC-210 Tactical radio, allowed less cost, and allows the weapons platforms to be returned to service and mission flexibility.	and functionalities in limited space. This enables ws platforms to receive capabilities upgrades qui	significant cker and at			
FY 2010 Accomplishments: Initiated contract preparation during 1Q-2Q FY 2010. Test article contract awarded 3Q FY 2010. Delivered Initial Program Plan and Schedule 4Q FY 2010. Test board design complete and build process initiated 4Q FY 2010.					
FY 2011 Plans: Commence development testing by 2Q FY 2011. Complete Reliability	ty Testing 4Q FY 2011.				
FY 2012 Plans: Insert technology into production article 1Q FY 2012.					
Title: Personal Aircrew Cooling for Enhanced Endurance (PACE2) P	rogram (Navy)		0.423	-	
Description: Test a personal, portable cooling unit to meet an Urger Corps Forces Command. The primary outputs are provides an effect improve health readiness, mitigate heat stress injuries and reduce descriptions.	tive man-mounted personal portable cooling unit				

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Sec	cretary Of Defense		DATE: Fel	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program	PROJEC P051: De	T fense Acquis	ition Challeng	ge Program
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Initiated contract preparation during 4Q FY 2009/1Q FY 2010. Awarest articles delivered 4Q FY 2010. Examined human factors and in specification for system 4Q FY 2010.					
FY 2011 Plans: Complete Operational Evaluation 1Q FY 2011. Conduct crashworth 3Q FY 2011. Conduct Operational Evaluation 3Q FY 2011. Finalize FY 2011.					
Title: Personnel Transport Module (PTM) for Landing Craft Air Cush	nion (Navy)		0.916	1.030	-
Description: Test a personnel transport module (PTM) for use aboat constructed of a light weight yet durable composite material, will enamous or 54 litter-borne medical evacuees in a single LCAC sortie of the current design, including reduced assembly time and improve a PTM that provides increased durability and reduced corrosion for its construction.	able the Navy to deploy up to 180 seated combat-r . The primary outputs are resolution of the severe d ventilation to increase habitability and usage, an	eady deficiencies			
FY 2010 Accomplishments: Completed contract award 3Q FY 2010. Prepared test plan 4Q FY 2 generator environmental trailer with PTM and preliminary fire qualific signed by the NSWC PC contracts office 4Q FY 2010.					
FY 2011 Plans: Receive test articles 2Q FY 2011. Complete fire qualification testing operational tests 4Q FY 2011. Procurement decision 4Q FY 2011.	g and perform follow-up testing by 2Q FY 2011. Co	omplete			
Title: Pyrophoric Decoy Second Source (Navy) - Contingent upon Cauthority.	Congressional appropriation and/or Congressional	new start	-	1.006	-
Description: Test to qualify a second source for MJU-49/B and MJU flare material exists; this effort will establish and qualify a second so second source for MJU-64/B and the MJU-49/B pyrophoric decoys f ensure a steady supply of decoys in the event of a production disrup	ource to manufacture these items. The primary out for the US Navy and other Services, decreased un	puts are a			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Sec	cretary Of Defense		DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program	PROJECT P051: Defense Acquisition Challenge		ge Program	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Contract for developmental test articles 2Q FY 2011. Function evalue FY 2011. Preliminary design review 3Q FY 2011. Flight function test		Q and 4Q			
FY 2012 Plans: Development tests scheduled for 2Q FY 2012. Qualification tests pl 2012.	anned for 3Q FY 2012. Initiate procurement deci	sion 4Q FY			
Title: Sensor Fusion Clip-On Night Vision Device for SOF Combat A	Assault Rifle (Special Operations Command)		0.498	-	-
Description: Test and evaluate a Sensor Fusion Clip-on Night Vision Assault Rifle that integrates the technologies of both thermal and improvement in target advantage when operating in austere environment improvement in target acquisition in rain, mist, smoke, vegetation, for					
FY 2010 Accomplishments: Conducted technical evaluation and user operational assessment. F Rate Initial Production (LRIP) decision and completed LRIP procure		Obtained Low			
FY 2011 Plans: Receive delivery of LRIP units, conduct first article testing, and obtain fielding and deployment release. Project closeout is scheduled 4Q F		cision and			
Title: Shipboard Antenna Radar Replacement (Navy) - Contingent u start authority.	upon Congressional appropriation and/or Congres	sional new	-	1.227	-
Description: This project will test a shipboard antenna to provide im (DF) antennas (improved threat detection), while reducing Radar Crofor use by the U.S. Navy. This antenna would replace the current A suite of antennas for the Ship's Signal Exploitation Equipment (SSE)	oss Section (RCS) and Operating and Support (CAS-3202 (1960's technology) antennas which are	&S) costs,			
FY 2011 Plans: Contract for test articles 2Q FY 2011. Acceptance test and docume testing 4Q FY 2011.	ntation 4Q FY 2011. Conduct environmental qua	lification			
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Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secr	retary Of Defense		DATE: Fel	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program	PROJECT P051: Defense Acquisition Challenge		ge Program	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Shipboard planning and installation during 1Q – 2Q FY 2012. Shipboard closeout report scheduled for 4Q FY 2012.	pard testing planned for 3Q FY 2012. Procuremen	t decision			
Title: Shock Profile of SOF Combat Assault Rifle (Special Operations	s Command)		0.520	-	-
Description: Test upgrades to shock profile equipment for Special O which have exhibited shock values higher than currently fielded Minia The primary outputs include upgraded shock profile software to replic accessories to determine shock dampening requirements; and final vexpedites MDNS equipment adjustment to the SCAR, will save million fielding of MDNS.	ature Day Night Sights (MDNS) are designed to wi cate SCAR performance; cost effective tests of MD alidation of dampened MDNS accessories. This p	thstand. NS project			
FY 2010 Accomplishments: Completed upgrade of SCAR shock profiler. Completed contract acti aftermarket solution samples. Conducted technical testing of MNDS technical test report.					
FY 2011 Plans: Prepare production decision package. Project closeout is scheduled	1Q FY 2011.				
<i>Title:</i> Shockwave Therapy for Traumatic Wounds and Burns of the E	xtremity (Army)		0.821	-	-
Description: Courier NewTest upgrades to shock profile equipment to weapons which have exhibited shock values higher than currently file withstand. The primary outputs include upgraded shock profile softw MDNS accessories to determine shock dampening requirements; and project expedites MDNS equipment adjustment to the SCAR, will saw the fielding of MDNS.	Ided Miniature Day Night Sights (MDNS) are designare to replicate SCAR performance; cost effective d final validation of dampened MDNS accessories	ned to tests of This			
FY 2010 Accomplishments: Test articles delivered to Walter Reed Army Medical Center (WRAMO Medical Center at Birmingham, and Johns Hopkins University Would at WRAMC. Interim data analysis conducted during the 4Q FY 2010.	Center. Twenty nine patients have been enrolled				
FY 2011 Plans: Prepare production decision package. Project closeout is scheduled	1Q FY 2011.				
Title: Sinuous Spiral Antenna (SSA) for ANA/ALQ211 (SIRFC) EW S	System (Special Operations Command)		0.788		-
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Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secre	etary Of Defense		DATE: Feb	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program	PROJECT P051: Def	r fense Acquisi	ition Challeng	ge Program
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Description: Test a detection antenna for the ALQ-211 Suite of Integfielded on the MH-47G and CV-22. The primary output/efficiency is a SIRFC to better correlate the received signal with its order of battle da Simulation and lab testing will be performed to validate that sinuous a AN/ALQ-211 Quadrature Antenna Assembly.	new antenna that provides polarization sensitivity a atabase, which leads to quicker identification and jar	allowing mming.			
FY 2010 Accomplishments: Completed Feasibility Study. Conducted go/no-go decision. Initiated completed test reports.	bread boarding and conducted validation testing ar	nd			
FY 2011 Plans: Project closeout is scheduled 2Q FY 2011.					
Title: Soldier Power Manager (SPM)(Army) - Contingent upon Congrauthority.	essional appropriation and/or Congressional new st	art	-	0.780	
Description: Test a soldier power managers (SPM) which is a small military rechargeable battery from a variety of sources, and then power the number and variety of primary batteries needed. This project provilimited field trials.	er his entire kit from that single battery, drastically re	educing			
FY 2011 Plans: Perform testing and evaluation on the SPM including environmental, tests. Critical Design Review 2Q FY 2011. Operational Testing 3Q FY		st & sand			
Title: Special Operations Forces (SOF) Forward Trauma Managemen	nt Set (Special Operations Command)		0.456	0.565	-
Description: Evaluate a deployable surgical care and trauma life suplife saving trauma care for SOF operating in remote areas where cast will be completed in three worldwide operational areas: Central Commoutputs and efficiencies are resuscitative surgical care and trauma life and within the capability of assigned SOF medical and non-medical p C-130/C-17 aircraft, and a modular system sustainable in remote hars	ualty evacuation is not available. User assessment mand, Africa Command, and Pacific Command. The support equal to tactical combat casualty care guidersonnel, a self contained system set rapidly deploy	testing e primary delines,			
FY 2010 Accomplishments: Received test articles. Requested Food and Drug Administration app SOFTMS. Evaluated form, fit and function, and conducted initial user					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary	retary Of Defense		DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program	PROJECT P051: Defense Acquisition Challeng		ge Program	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
medical and non-medical equipment at Natick Soldier System Cente Laboratory to certify air-worthiness of the SOFTMS.	r and finalized plans with US Army Aeromedical R	esearch			
FY 2011 Plans: Prepare technical test report. Perform operator user assessment test assessment/validation (exercise) and prepare validation report. Procis scheduled 4Q FY 2011.					
Title: Tactical Beyond-Line-of-Sight Communications Extension Syst	tem (TEBLOS) (Special Operations Command)		2.156	-	-
Description: Evaluate a tactical, man-portable, beyond line-of-sight existing range of the tactical network data throughput for 16 Megabite sight to 44 KM, while reducing or eliminating vulnerable relay sites. data transfers through expensive Ku-band and Ka-band satellite comoutputs and efficiencies are data throughput of 10 Mbps or greater at capable of set up and operation in 30 minutes.	es per second (Mbps) links from 22 Kilometers (K Tactical network range extension currently relies of Inmunications (SATCOM) for BLOS connectivity. 1	M) line of on limited The primary			
FY 2010 Accomplishments: Contract awarded for test articles 3Q FY 2010. Obtained safety release Test Command certification and initiated frequency allocation time for		operability			
FY 2011 Plans: Allocate frequency time to conduct technical and user assessment/opsystem safety certification and prepare documentation for production scheduled 3Q FY 2011.					
Title: Tactical Vehicle Battery – Replacement (TVB-R) (Navy)			0.766	0.614	-
Description: Test a battery replacement that has a higher energy dedischarge cycle life compared to the current lead acid battery. The pand increase energy density ranging from three to five times over lead	orimary outputs are drop in replacement for lead a				
FY 2010 Accomplishments: Contract awarded at the end of 4Q FY 2010.					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Sec	retary Of Defense		DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program	PROJEC P051: <i>De</i>		ition Challeng	ge Progran
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Receive Phase I test articles and initiate Comparative testing at the FY 2011. Down select during 3Q FY 2011. Receive additional test 2011.					
FY 2012 Plans: Complete Performance testing and initiate Field User Evaluation dur Finalize technical test report, closeout report, and procurement decisions.		Q FY 2012.			
<i>Title:</i> Thermal Fire Control for the Multi-role Anti-armor Anti-personn - Contingent upon Congressional appropriation and/or new start auth		Command)	-	0.758	
Description: Test upgraded software for the AN/PAS13 Thermal We for all 84mm ammunition used in MAAWS. The AN/PAS13 is a field weapons with 3X electronic zoom, containing programmable reticles the TWS MAAWS the Special Operations warfighter will have increa efficiencies are quick target engagement with target acquisition at or security.	ed lightweight, compact, fire control unit for crew se and thermal imaging technology. When upgraded sed lethality on the battlefield. The primary outputs	erved with and			
FY 2011 Plans: Initiate contract for test articles and conduct vendor software qualific	ation testing.				
FY 2012 Plans: Obtain safety verification certification. Conduct developmental and creview. Prepare milestone decision packet. Submit project closeout		ment			
<i>Title:</i> Worldwide Ruggedized Power Supply (WRPS) (Navy) - Continuew start authority.	ngent upon Congressional appropriation and/or Cor	ngressional	-	0.922	
Description: Test multiple power supplies that will provide the capal 50/60 Hertz (Hz) to Direct Current (DC) power. This enables the ope equipment and weapon systems from ANY power grid, ANYWHERE ruggedized, can convert from VAC and Hz to DC power, and provide pounds.	eration and repair of communications, electronics, r E in the world. The primary outputs are a power sup	nedical oply that is			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secreta	DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0604051D8Z: Defense Acquisition	P051: Defense Acquisition Challenge Program
BA 5: Development & Demonstration (SDD)	Challenge (DAC) Program	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Award a contract during 3Q FY 2011. Initiate and complete fabrication of test articles during 4Q FY 2011. Receive test articles by the end of 4Q FY 2011.			
FY 2012 Plans: Initiate Performance testing during 1Q FY 2012 and complete during 2Q FY 2012. Initiate Field User Evaluation during 2Q FY 2012 and complete during 3Q FY 2012. Finalize technical test report, closeout report, and procurement decision by the end of 3Q FY 2012.			
Accomplishments/Planned Programs Subtotals	25.970	24.344	-

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

N/A

D. Acquisition Strategy

The Acquisition Strategy for Defense Acquisition Challenge (DAC) Program is as outlined in Title 10. DAC provides opportunities for the increased introduction of innovative and cost-saving technology in acquisition programs of the DoD. DAC 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 cognizant acquisition program of record will procure.

E. Performance Metrics

From program inception in 2003 until 2010, the Office of Secretary of Defense has initiated 133 projects; 66 projects have been completed to date; 59 met Service or Agency testing requirements and 36 led to procurements with technology currently in use by our warfighters in Iraq, Afghanistan, or at U.S. training facilities. In FY 2010 DAC had a transition rate of 81 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 2010, 60 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.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary Of Defense							DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: Development & Demonstration (SDD)			R-1 ITEM NOMENCLATURE PE 0604051D8Z: Defense Acquisition Challenge (DAC) Program				PROJECT P052: Contingency Acquisition Support Model (cASM)				
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P052: Contingency Acquisition Support Model (cASM)	10.323	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Ebusiness capabilities critical to meet the enterprise-wide needs of the procurement community by including contingency capabilities for 3 in 1 and Contingency Acquisition Support Model.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: Contingency Acquisition Support Model (cASM)	10.323	-	-
Description: The Contingency Acquisition Support Model (cASM) project will develop a software application which addresses the ability to electronically generate requirements documents. The primary outputs are enable data entry to populate multiple acquisition documents using a questionnaire, store performance work statement formats and templates in an easily updatable central Web repository, and demonstrate an intuitive Web accessible application that will automatically generate an electronic staffing process via notifications.			
FY 2010 Accomplishments: Ebusiness capabilities critical to meet the enterprise-wide needs of the procurement community by including contingency capabilities for 3 in 1 and Contingency Acquisition Support Model.			
Accomplishments/Planned Programs Subtotals	10.323	-	-

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

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Ebusiness capabilities critical to meet the enterprise-wide needs of the procurement community by including contingency capabilities for 3 in 1 and Contingency Acquisition Support Model.