

Subject: Urgent Theater Technology Requirements	DoD Serial Number: FY 10-24 PA
Appropriation Title: Various Appropriations	Includes Transfer? Yes

Component Serial Number:	(Amounts in Thousands of Dollars)							
	Program Base Reflecting Congressional Action		Program Previously Approved by Sec Def		Reprogramming Action		Revised Program	
Line Item	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
a	b	c	d	e	f	g	h	i

This reprogramming action is submitted for prior approval because it uses special transfer authority pursuant to section 9002 of Public Law 111-118, the Department of Defense (DoD) Appropriations Act, 2010. This action uses \$258.618 million in special transfer authority in support of higher priority items, based on unforeseen military requirements than those for which originally appropriated, and is determined to be necessary in the national interest. It meets all administrative and legal requirements, and none of the items has been previously denied by the Congress. General David H. Petraeus, Commander, International Security Assistance Forces and Commander, United States (U.S.) Forces in Afghanistan recently identified these programs as critical priorities for U.S. Forces in Afghanistan. This reprogramming impacts the Military Intelligence Program (MIP).

<u>FY 2010 REPROGRAMMING INCREASES:</u>		<u>+258,618</u>	<u>+195,118</u>
<u>ARMY INCREASES</u>		<u>+118,350</u>	<u>+62,650</u>
<u>Other Procurement, Army, 10/12</u>		<u>+10,400</u>	<u>+5,000</u>
<u>Budget Activity 3: Other Support Equipment</u>			
<u>Training Devices Non-System</u>			
	336,474	336,474	
		<u>+10,400</u>	346,874
		<u>+5,000</u>	341,474

Explanation: Funds are required for the following programs/activities:

- \$5.0 million provides for the Virtual Patient System (VPS), medical simulators (mannequins) with simulated Improvised Explosive Device (IED) wounds for training Medics and Combat Lifesavers. Funds would accelerate this urgently needed capability to treat IED wounds in a Crisis Action Team (CAT) Helicopter Support Team (HST) scenario. VPS is transportable and configurable to facilitate realistic, scenario-driven training that is essential to lifesaving measures required by the warfighter. This is Overseas Contingency Operations (OCO) funding.
- ~~\$5.4 million provides for the Low Overhead Stimulation Simulation Capability (LOSS C) to help accelerate the Army requirement to provide a low overhead, simulation driven training tool that enables Commanders to train and exercise their staff repetitiously on the collective targeting and attack the network processes. These tasks are required of battalion and brigade staffs. This is OCO funding.~~

SAC Denied

Approved (Signature and Date)

Robert F. Hale 9/20/2010

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Research, Development, Test, and Evaluation, Army, 10/11					+107,950		+57,650	
<u>Budget Activity 3: Advanced Technology Development</u>								
<u>PE 0603003A Aviation Advanced Technology</u>								
	104,697		104,697		+21,000		125,697	
<p><u>Explanation:</u> Funds are required to rapidly develop, integrate, test and operationally demonstrate projects. \$21.0 million provides for autonomous navigation technologies for rotary winged, unmanned air systems. Demonstrating these technologies will enable capabilities for United States Central Command (CENTCOM) unmanned aircraft system (UAS) cargo delivery Joint Urgent Operational Needs (JUON), and aligns with previously funded efforts. This is OCO funding.</p> <p style="text-align: center;"><u>SAC and HASC Denied</u></p>								
<u>Budget Activity 4: Advanced Component Development and Prototypes</u>								
<u>PE 0603619A Landmine Warfare and Barrier Advanced Development</u>								
	16,848		16,848		+9,500		25,748	
<p><u>Explanation:</u> Funds are required for the following programs/activities:</p> <ul style="list-style-type: none"> \$8.9 million provides funds to develop and deploy two forward looking disturbed-earth detection systems for Route Clearance Patrol (RCP) vehicles, termed Project Scissor. This project directly supports validated and approved CENTCOM urgent operational need CC-0313 to counter low-metallic, deeply buried IEDs. The system allows on-the-move, stand-off detection of disturbed soil up to 30 meters using multi-band Long Wave Infrared (LWIR) sensor. This augments the ground penetrating radar (GPR) system currently on Husky vehicles within RCPs. This is OCO funding. \$0.6 million provides funds to develop a pulsed nuclear quadruple (PNQ) sensor. PNQ is a technique that can be used to interrogate and detect specific chemical compounds, including explosives. This effort responds to the validated CENTCOM urgent need to detect and defeat homemade explosives. The PNQ sensor will be integrated onto a high mobility multipurpose wheeled vehicle (HMMWV) for detection of non-metal content bulk explosive up to 12 inches deep. This is OCO funding. 								

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PE 0603627A Smoke, Obscurant and Target Defeating Systems								
		4,727		4,727		+880		5,607
<u>Explanation:</u> Funds are required to develop, integrate and demonstrate long stand-off explosive detections capability against homemade explosives (HME). This requirement addresses a validated and approved CENTCOM urgent operational need, CC-0325, to defeat the threat of HME in Afghanistan. This effort will integrate a currently available system called Ultraviolet Raman/Townsend Effect Plasma Spectroscopy/Laser Induced Breakdown Spectroscopy on a tactical vehicle to evaluate the system against targets of HME and unknown bulk explosives. This is OCO funding.								
PE 0603766A Tactical Electronic Surveillance System								
		12,164		12,164		+880		13,044
<u>Explanation:</u> Funds are required to provide an integrated wireless test bed in order to properly assess emerging threat C4ISR capabilities and provide appropriate countermeasures; the funding also provides for enabling communications in an appropriate radio frequency (RF) background environment. This is a classified program. This is OCO funding. This is a MIP project .								
PE 0603747A Soldier Support and Survivability								
		32,102		32,102		+9,290		41,392
<u>Explanation:</u> Funds are required to fabricate and test three high performance, high ground clearance antennas for the U.S. Army Rapid Equipping Force's "Duracrete" Ground Penetrating Radar (GPR) system. This effort improves the current antennas on the Duracrete system. This system uses low power to detect metallic and non-metallic anomalies buried under improved and unimproved road surfaces. This is OCO funding.								
<u>Budget Activity 5: System Development and Demonstration</u>								
PE 0604270A Electronic Warfare Development								
		213,967		213,967		+5,900		219,867
<u>Explanation:</u> Funds provides for LightGuard, which addresses validated and approved CENTCOM urgent operational needs expressed in JUON CC-0315 and CC-0325. Project LightGuard will develop, integrate and operationally demonstrate a short wavelength infrared imaging sensor that can detect low concentrations of homemade explosive residue on surfaces. Funding will permit a rapid								

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program start within 30 days and allow the contractor to purchase all long lead time items up front. This will eliminate delays thus ensuring the completion of sensor development within 6 months reducing the schedule risk and speeding up the transition to production. This is OCO funding. This is a **MIP project**.

PE 0604663A Future Combat Systems (FCS) Unmanned Ground Vehicles
120,685 120,685 **+1,250** 121,935

Explanation: Funds are required to integrate a Dismounted Small Robotic Sensor using one or more technologies, such as Synthetic Aperture Radar (SAR), hyper-spectral sensors and ground penetrating radar on a small unmanned ground vehicle (SUGV) for the detection of explosives. This is OCO funding. This is a **MIP project**.

~~PE 0604742A Constructive Simulation Systems Development~~
~~32,352 32,352 **+9,300** 41,652~~

~~Explanation: Funds are required to accelerate the Low Overhead Stimulation Simulation Capability (LOSS-C) program to provide a low overhead, simulation driven training tool that will enable Commanders to train and exercise their staff repetitiously on the collective targeting and attack the network processes and tasks required of battalion and brigade staffs. This is OCO funding.~~

SAC Denied

PE 0604802A Weapons & Munitions Technology
85,846 85,846 **+300** 86,146

Explanation: Funds are required to support validated CENTCOM operational requirements for more effective Man-Transportable Robot Systems (MTRS) with improved illumination in both visible and infrared spectrum. Improved illumination allows more flexible MTRS operations against threats in culverts and similar inaccessible locations. This improved capability will enhance Explosive Ordnance Disposal (EOD) operations in no/low light situations in Afghanistan. This is OCO funding.

PE0 604802A Weapons & Munitions Technology
85,846 85,846 **+650** 86,492

Explanation: Funds are required to develop Molecular Imprinted Polymer Swipes (MIPS) technology. This will provide a low cost, disposable wipe explosive detection solution capable of

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detecting Ammonium Nitrate quickly and with a unique colorimetric response. Visual color change provides quick and fast identification. This is OCO funding.

Budget Activity 7: Operational Systems Development

PE 0305204A Tactical Unmanned Aerial Vehicles

204,984	204,984	+40,000	244,984
		+20,000	224,984

Explanation: Funds provides for the development and demonstration of the initial operational capability for Brigade-level Signals Intelligence (SIGINT) operations in Afghanistan. This effort supports a validated and approved CENTCOM urgent operational need, CC-0382. This is OCO funding. This is a **MIP project**.

SAC Denied \$20.0 million and directed funding only to existing aircraft

PE 0604710A Night Vision Systems – Engineering Development (SDD)

55,292	55,292	+9,000	64,292
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Explanation: Funds are required for the following programs/activities. Both projects address CENTCOM validated and approved urgent operational needs:

- \$7.0 million will provide development, integration, and in-theater demonstration/assessment of a remotely controlled Husky Mine Detection System (HMDS) vehicle for Route Clearance Patrols (RCP). Funding will develop the Husky robotic control kit for a remote station in an RG-31 Mine Resistant Ambush Protected (MRAP) vehicle. Remote operation will occur through the wireless link that allows continuous operation of electronic counter measure equipment and the ground penetrating radar. This is OCO funding.
- \$2.0 million will support the integration of a multi-spectral sensor into the Standoff Suicide Bomber Detection System (SSBDS). Funds would be used for refurbishment, integration of sensors, Army Test and Evaluation Command (ATEC) assessment, and 90 day in-theater assessment. This is OCO funding.

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NAVY INCREASES **+21,550**

Aircraft Procurement, Navy, 10/12 **+10,700**

Budget Activity 5: Modification of Aircraft

H-53 Series	231,659	231,659	+10,700	242,359
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Explanation: Funds are required to integrate commercial and non-developmental components into an Open Architecture Safety Solution. This urgently needed solution addresses validated safety and operational needs by integrating software modules from fielded systems, and develops / delivers multiple safety capabilities into a single display (Blue Force Tracking (BFT), Forward-looking Infrared (FLIR), Threat Display and Hover Symbolology) for the United States Marine Corps (USMC) CH-53E aircraft. This is OCO funding.

Research, Development, Test, and Evaluation, Navy, 10/11 **+10,850**

Budget Activity 3: Advanced Technology Development

PE 0603640M MC Advanced Technology Demonstration

	127,005	127,005	+6,850	133,855
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Explanation: Funds are required to support deployment and operational demonstration of improved prototype systems in response to CENTCOM urgent operational need for improved capability to pre-detonate IEDs. This is OCO funding.

Budget Activity 4: Advanced Component Development and Prototypes

PE 0604279N Aircraft Survivability Equipment (ASE) Self-Protection Optimization (ASPO)

-	-	+4,000	4,000
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Explanation: Funds are required to develop interfaces to the aircraft's missile warning system to detect the direction Man-Portable Air Defense System (MANPADS) are coming and dispense flare countermeasures in appropriate geometries to increase their effectiveness. Modeling shows ASPO can increase aircraft survivability up to 30% and concurrent decrease flare countermeasure use to increase mission duration and cut costs. This is OCO funding. This is a **new start**.

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<u>AIR FORCE INCREASE</u>						<u>+22,950</u>		
<u>Research, Development, Test, and Evaluation, Air Force, 10/12</u>						<u>+22,950</u>		
<u>Budget Activity 7: Operational Systems Development</u>								
PE 0305206F Airborne Reconnaissance Systems								
		144,806		144,806		+22,950		167,756

Explanation: Funds are required for demonstration of multi-INT fusion of the wide area and point target motion imagery surveillance and other day/night infra red, electro-optical and communications equipment to support dismounted soldiers in the field and facilitate data transmission from the aircraft to the ground station in support of Operation Enduring Freedom-Afghanistan. The sensor development and integration efforts of this project directly support multiple intelligence, surveillance and reconnaissance associated with validated CENTCOM urgent needs. This effort contributes directly to force protection and counter Improvised Explosive Device (IED) missions for coalition Forces. This is an ISR TF endorsed program. This is OCO funding. This is a new start. This is a **MIP project**.

<u>DEFENSE-WIDE INCREASE</u>						<u>+95,768</u>		<u>+87,968</u>
<u>Research, Development, Test, and Evaluation, Defense-Wide, 10/11</u>						<u>+95,768</u>		<u>+87,968</u>
<u>Budget Activity 3: Advanced Technology Development</u>								
PE 0603122D8Z Combating Terrorism Technology Support								
		117,153		117,153		+10,000		127,153

Explanation: Funds are required for rapid modification, test and evaluation of a web-based advanced analytical platform for operational and tactical information storage, access, and sharing. This is to support a CENTCOM urgent operational need for advanced analytical capability and large storage information. The system will acquire necessary hardware, modified for the intended end-user's specific requirement, and deliver one year of software and administration service and initial field training for the identified solution that enhances the current Palantir systems. The system will provide an intuitive capability to see relationships between a wide variety of disparate sets of information in a collaborative process which is critical to operational commanders. The solution will be quickly prototyped and evaluated to provide a bridge to future Service analytical information systems. This is OCO funding.

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PE 0603618D8Z Joint Electronic Advanced Technology	10,751	10,751						
					+21,836		32,587	
					+14,036		24,787	

Explanation: Funds are required to enhance the safety and survivability of a wide variety of aircraft across the Services for three projects within this program:

- \$11.036 million will develop and install Defensive System Data Recorders (DSDR) into a variety of Army and Air Force aircraft. DSDR is the first system that could record/evaluate performance of multiple Aircraft Survivability Equipment (ASE) systems' data for real-time and post-mission analysis, and thus enables improvement of ASE systems.
- ~~\$7.8 million will integrate and install the Hostile Fire Detect and Dazzle (HFDD) system, a revolutionary system comprised of non-developmental components. The HFDD is approximately one third the size and weight of existing countermeasure systems, has greater reliability and will be able to simultaneously engage multiple threats.~~

SAC Denied

- \$3.0 million will provide a yearly range venue in which the Services and developers can test new technology solutions against advanced aircraft threats. This effort is termed the Rotorcraft ASE Survivability Experiment. This effort will enable U.S. forces to develop and field defensive systems that will be capable of responding to and defeating the wide variety of new threats as they continue to evolve. This is OCO funding.

PE 0603826D8Z Quick Reaction Special Projects	73,583	73,583						
					+17,800		91,383	

Explanation: Funds are required to accelerate development of urgently needed technology efforts in two areas of this program:

- \$10.1 million will rapidly develop robotic buried threat detection capability, and provide 32 prototypes in 4 different configurations for in-theater operational employment and assessment against emerging Insurgent IED tactics.
- \$7.7 million provides urgently needed upgrades at the Yuma test range to support integration and assessment of evolving force protection and surveillance systems. The urgently needed upgrades provide representative environments for testing interoperability, reliability and effectiveness of systems before fielding. This is OCO funding.

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PE 1160402BB Special Operations Advanced Technology Development								
	56,727		57,922		+11,000		68,922	
<u>Explanation:</u> Funds are required to address 8 validated Operational Need Statements (ONS) for Combat Identification (CID) capabilities. Two of the ONS apply directly to personnel locators, one involves personnel recovery, and five call for ground-based, dismounted combat identification. This funding will provide each soldier in a Brigade Combat Team with a radio-frequency-based, simplistic “patch” device, to be embedded in troop uniforms. The patch CID provides capability to interrogate and respond positively for CID. This is OCO funding.								
<u>Budget Activity 6: RDT&E Management Support</u>								
PE 0605799D8Z Force Transformation Directorate								
	23,787		23,787		+12,100		35,887	
<u>Explanation:</u> Funds are required for completion of development, integration and fielding of Enhanced Mortar Targeting Systems (EMTS) for improved force protection at Forward Operating Bases in Afghanistan. This level of funding completes certification, delivers 20 prototype EMTS with support and integration of additional sensors. This is OCO funding.								
<u>Budget Activity 7: Operational Systems Development</u>								
PE 0607828D8Z Joint Integration and Interoperability								
	45,840		45,840		+8,450		54,290	
<u>Explanation:</u> Funds are required to develop and implement situational awareness that will be provided by Combat Identification (CID) data. This funding will expand on the initial capability by increasing the number of Friendly Force Tracking (FFT) systems (including Coalition), reduce manpower requirement to operate, and provide more timely situational awareness (less time latent). This is OCO funding.								

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PE 1160405BB Special Operations (SO) Intelligence Systems		41,223		41,223		+9,000		50,223
<p><u>Explanation:</u> Funds are required to support accelerated technology fielding for a Single Card Solution (SCS) for Combat Identification (CID). This funding develops advanced prototype devices of a credit card sized transceiver, packed in a militarized encasing, to be operationally field tested by Special Operations Forces (SOF). This will precede and accelerate final solution and design, which will be funded and fielded by Special Operations Command (SOCOM). This effort equips SOF with 150 field devices for accelerated operational user assessment. This is OCO funding. This is a MIP project.</p>								
PE 1160482BB Special Operations Forces (SOF) Rotary Wing Aviation		18,784		18,784		+5,582		24,366
<p><u>Explanation:</u> Funds are required to develop and operationally assess Multiple-Hit Transparent Armor on MH-47 and MH-60 aircraft. These lightweight components replace canopies and windows on MH-47s and MH-60s to increase aircrew and passenger safety and survivability. This is OCO funding</p>								

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<u>ARMY DECREASE</u>						<u>-175,118</u>	<u>-111,618</u>	
<u>Operation and Maintenance, Army, 10/10</u>						<u>-175,118</u>	<u>-111,618</u>	
<u>Budget Activity 4: Administration and Servicewide Activities</u>								
	15,924,936		15,924,936		-175,118		15,749,818	
					-111,618		15,749,818	
<u>Explanation:</u> Funds are available from Operation Enduring Freedom (OEF) Surge funding primarily due to lower than anticipated obligation rates in transportation charges and a reduction in costs for support provided by USTRANSCOM. These are OCO funds.								
<u>OUUSD(C) Adj.</u>								
<u>AIR FORCE DECREASE</u>						<u>-83,500</u>		
<u>Operation and Maintenance, Air Force, 10/10</u>						<u>-83,500</u>		
<u>Budget Activity 1: Operating Forces</u>								
	26,458,344		26,441,844		-7,500		26,417,844	
<u>Explanation:</u> Funds are available due to reduced transportation charges from the U.S. Transportation Command. This is OCO funding.								
<u>Budget Activity 2: Mobilization</u>								
	8,816,624		8,816,624		-22,000		8,794,624	
<u>Explanation:</u> Funds are available due to reduced transportation charges from the U.S. Transportation Command. This is OCO funding.								
<u>Budget Activity 3: Training and Recruiting</u>								
	3,505,807		3,505,807		-8,000		3,497,807	
<u>Explanation:</u> Funds are available due to reduced transportation charges from the U.S. Transportation Command. This is OCO funding.								
<u>Budget Activity 4: Administration and Servicewide Activities</u>								
	8,210,331		8,210,331		-46,000		8,164,331	
<u>Explanation:</u> Funds are available due to reduced transportation charges from the U.S. Transportation Command. This is OCO funding.								