

<b>Subject:</b> Wide Area Surveillance (WAS) Capability	<b>DoD Serial Number:</b> FY 10-16 PA
<b>Appropriation Title:</b> Various Appropriations	<b>Includes Transfer?</b> 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 \$408.770 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. Some adjustments in this reprogramming impact the Military Intelligence Program (MIP) and are initiatives supported by the Secretary of Defense's Intelligence, Surveillance, and Reconnaissance (ISR) Task Force (TF). General David H. Petraeus, Commander, International Security Assistance Force and Commander, U.S. Forces in Afghanistan recently identified these programs as critical priorities for U.S. Forces in Afghanistan.

**FY 2010 REPROGRAMMING INCREASES:** **+408,770**

**ARMY INCREASES** **+322,000**

**Aircraft Procurement, Army, 10/12** **+39,000**

Budget Activity 2: Modification of Aircraft

Multi Sensor ABN Recon (MIP)

75,391	75,391	+39,000	114,391
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Explanation: Funds are required for the following programs/activities:

- \$24.0 million provides for integration costs to upgrade wide area surveillance sensors and incorporate infrared capabilities for two aircraft already in Afghanistan and one existing CONUS Constant Hawk aircraft preparing to deploy to Afghanistan.
- \$15.0 million provides for the procurement and outfitting for one additional Constant Hawk aircraft to maintain CONUS for testing and program improvement activities.

This is a MIP project and ISR TF Initiative.

Approved (Signature and Date)

*Michael McCord Acting*

AUG 16 2010



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<b>Other Procurement, Army, 10/12</b>						<b>+283,000</b>			
Budget Activity 3: Other Support Equipment									
Rapid Equipping Soldier Support Equipment									
		11,750		11,750		+283,000		294,750	
<p><u>Explanation:</u> Funds are required for direct contribution to increasing wide area and point target motion imagery surveillance, moving target indicator capability, and other day/night electro-optical capabilities to support Operation Enduring Freedom - Afghanistan. These capabilities contribute to the force protection and counter Improvised Explosive Device (IED) missions for Coalition Forces.</p> <p>Funds are required for the following programs/activities:</p> <ul style="list-style-type: none"> <li>• \$30.0 million for Wide-area Infrared System for Persistent Surveillance (WISP). The WISP provides all-weather, day/night capability for real time visualization and forensics, moving target detection and tracking, and change detection capabilities. This initiative supports sensors for up to five sites plus three spares. This capability can be mounted on existing towers or aerostats.</li> <li>• \$17.0 million for additional Ground Processing Analysis Complex /Airborne Reconnaissance Support Team. The increase of one additional Constant Hawk aircraft, coupled with the addition of capabilities brought to Afghanistan by Army's Yellow Jacket program (Red Ridge) and Army-Argus-A160 (AAA) program, requires an additional ground processing center to analyze Wide Area Motion Imagery (WAMI). The three new aircraft inbound for this spring will double the number of Army wide area sensors providing data to the warfighter. This additional ground processing station will support the increase in Army airborne wide area surveillance in theater.</li> <li>• \$40.0 million for KESTREL Wide Area Motion Imagery. This funding will provide for sensors for five KESTREL systems and three spares to be integrated and deployed to Afghanistan on Persistent Threat Detection System (PTDS) aerostats. The KESTREL sensor provides 360 degrees of surveillance under the PTDS out to 5 or 6km. This capability will be integrated into the existing PTDS ground station.</li> <li>• \$166.0 million for one additional MX-20 Electro-Optical/Infra-Red (EO/IR) Full Motion Video (FMV) sensor for 26 PTDS in Afghanistan. This funding will provide for sensors and spares to modify 26 PTDS including transportation and integration.</li> <li>• \$10.0 million for ISR Network equipment modifications. This funding modifies ten ISR Network radios to reduce weight and enable integration of second imagery sensor on PTDS aerostats. Funding will pay for additional radio equipment sets and separate power amplifiers.</li> </ul>									



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<ul style="list-style-type: none"> <li>\$20.0 million for Aegis Leap Intercept (LEAPS-A) on Persistent Ground Surveillance Systems (PGSS). Funding procures sensors for five LEAPS-A systems and three spares to be integrated and deployed in Afghanistan on the PGSS aerostats.</li> </ul> <p>This is a MIP project and ISR TF Initiative.</p>								
<b><u>NAVY INCREASE</u></b>						<b><u>+5,570</u></b>		
<b><u>Research, Development, Test, and Evaluation, Navy, 10/11</u></b>						<b><u>+5,570</u></b>		
<b><u>Budget Activity 3: Advanced Technology Development</u></b>								
<b><u>PE 0603271N RF Systems Advanced Technology</u></b>								
		74,661		74,661		<b>+3,420</b>		78,081
<p><u>Explanation:</u> Funds are required in support of the development -- and subsequent Field User Evaluation -- of a Wide Focal Plane Array Camera (WFPAC) sensor for integration in the Marine Corps RQ-7 UAS. The Office of Naval Research will develop a more capable wide focal plane array than had been previously identified, significantly increasing the likelihood of a successful deployment. In addition, these funds will allow the hardening and strengthening of some key sensor components in order to enable the sensor's use throughout the deployment without undue restrictions. Lastly, a spare sensor prototype will be developed, which will greatly reduce the overall program risk associated with having a single prototype for test and evaluation. This is a MIP project and ISR TF Initiative. This is a <b>new start</b>.</p>								
<b><u>Budget Activity 7: Operational Systems Development</u></b>								
<b><u>PE 0305233N RQ-7 UAV</u></b>								
		982		982		<b>+2,150</b>		3,132
<p><u>Explanation:</u> Funds are required for a modified common data link (CDL) capability and engineering support for the planned deployment of a RQ-7 Unmanned Aerial System (UAS) equipped with the WFPAC sensor in support of a Field User Evaluation by Marine Corps units deployed in OEF. This funding will enable the integration of the requisite CDL capability in the RQ-7 and its subsequent fielding which will allow the Marine Corps to meet its November 2011 deployment schedule. The CDL capability permits streaming of real-time motion imagery collected by the WFPAC sensor down to forward-deployed joint terminal air controllers/forward air controllers using remote video terminals. It also provides intelligence analysts with the capability</p>								



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to use real-time wide area motion imagery to process, exploit and analyze at a ground receive station. This is a MIP project and ISR TF Initiatives. This is a **new start**.

### **DEFENSE-WIDE INCREASE**

**+81,200**

### **Procurement, Defense-Wide, 10/12**

**+70,400**

Budget Activity 1: Major Equipment

Defense Geospatial-Intelligence Program

**+70,400**

Explanation: Funds are required to support recent CENTCOM requests for Wide Area Surveillance. The National Geospatial-Intelligence Agency (NGA), working with National System of Geospatial-Intelligence (NSG) members, will provide for automated tools for the processing and exploitation of wide area motion imagery from various platforms and other sources. It also provides for the integration for multi-intelligence processing, analysis, and subsequent dissemination across the enterprise in and out of theater.

Funds are required for the following programs/activities:

- \$30.0 million for expansion of terrestrial, satellite, and 3G communications capacity for both intra and inter theater.
- \$10.0 million for integration and processing automation to decrease timelines and to help analysts better deal with the increase in sensor area coverage.
- \$10.0 million for server integration for exploitation automation services and algorithms to decrease timelines and to help analysts better deal with the increase in sensor area coverage.
- \$1.0 million for sensor synchronization, tipping, and cueing server and enterprise equipment.
- \$ 4.4 million for motion imagery processing and exploitation architecture and tool upgrades.
- \$15.0 million for expanded Geospatial Intelligence (GEOINT) Full Motion Video (FMV)/ Wide Area Motion Imagery (WAMI) storage in the first Data Node from 500 terabit (TB) of usable storage to 1 petabyte (PB) on the Secret Internet Protocol Router Network (SIPRNet). These funds will enable the Department to extend Tactical Edge Network coverage and streams Military Intelligence (MI) and FMV to mobile devices and to accredit High Speed Guard for moving data to the Afghanistan Mission Network (AMN) and other required domains.

This is a MIP project and ISR TF Initiatives.



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**Research, Development, Test and Evaluation, Defense-Wide, 10/11** **+10,800**

Budget Activity 7: Operational Systems Development

PE 0305102BQ Defense Geospatial-Intelligence Program **+10,800**

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

- \$8.0 million for exploitation automation tool development and delivery.
- \$1.4 million for sensor synchronization, tipping, and cueing algorithm development and integration.
- \$1.4 million for motion imagery processing algorithm development and integration.

This is a MIP project and ISR TF Initiative.

**FY 2010 REPROGRAMMING DECREASE:** **-408,770**

**ARMY DECREASE** **-408,770**

**Operation and Maintenance, Army, 10/10** **-408,770**

Budget Activity 1: Operating Forces

72,045,166	72,045,166	<b><u>-408,770</u></b>	71,636,396
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Explanation: Funding is available from Operation Enduring Freedom (OEF) surge funding primarily due to slower than anticipated obligation rates in the Logistics Civil Augmentation Program (LOGCAP), non stock fund items, and strategic airlift.