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Exhibit R-2, PB 2010 Office of Secretary Of Defense RDT&E Budget Item Justification **DATE:** May 2009

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE					
0400 - Research, Development, Test & Evaluation, Defense-Wide/BA 3 - Advanced Technology Development (ATD)					PE 0603121D8Z SO/LIC Advanced Development					
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	37.169	33.447	43.808						Continuing	Continuing
206: Explosive Ordnance Disposal/Low-Intensity Conflict	7.070	7.360	7.287						Continuing	Continuing
207: Special Reconnaissance Capabilities	24.693	20.854	19.916						Continuing	Continuing
208: Information Dissemination Concepts	3.364	3.107	3.077						Continuing	Continuing
209: Irregular Warfare Support (IWS)	2.042	2.126	13.528						Continuing	Continuing

A. Mission Description and Budget Item Justification

P206, Explosive Ordnance Disposal/Low-Intensity Conflict (EOD/LIC). The EOD/LIC Program develops and delivers advanced capabilities for military Explosive Ordnance Disposal (EOD) operators and Special Operations Forces (SOF) to meet the challenges of improvised explosive devices (IEDs), force protection, and the war on terrorism. EOD/LIC efforts focus in two areas: support to SOF to combat terrorism; and access, detection, identification, and neutralization of all types of conventional explosive ordnance and improvised explosive devices. Requirements submitted by the Joint Service EOD and Service Special Operations communities are prioritized and approved by OASD (SO/LIC &IC).

P207, Special Reconnaissance Capabilities (SRC). The SRC Program exploits, leverages, and integrates DoD's service and agency efforts to improve surveillance and reconnaissance tools (unattended sensors, tagging devices, data infiltration/exfiltration, remote delivery, and mobility/delivery of sensors), while providing risk reduction for DoD and other agency technology and development programs. The SRC Program identifies, integrates, and operationalizes the technical tools for the collection of actionable information against a variety of targets and mission requirements, including Global War on Terrorism (GWOT), and maintains DoD's on-line catalog of tools in order to minimize crisis response time for special reconnaissance and surveillance.

P208, Information Dissemination Concepts (IDC). The IDC Program addresses technology capabilities necessary to enable sustained information dissemination campaigns in denied areas. The IDC program, working as necessary with DoD and the interagency, develops, modifies, and demonstrates concepts, mechanisms, platforms and payloads to propagate themes and messages that convince target audiences to take action favorable to the United States and its allies.

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APPROPRIATION/BUDGET ACTIVITY 0400 - Research, Development, Test & Evaluation, Defense-Wide/BA 3 - Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603121D8Z SO/LIC Advanced Development
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P209, Irregular Warfare Support (IWS). The IWS Program develops cross-domain blended capabilities necessary to enable sustained, counterterrorism operations. This program leverages ongoing research efforts of US Special Operations Command (USSOCOM), the military departments, Defense agencies, and other federal agencies to analyze, modify, design, prototype and demonstrate enduring technical and operational capabilities. Projects support efforts to: conduct counter organization warfare, develop counter motivation capabilities, coordinate infrastructure and sanctuary denial options, and provide counter enterprise and counter financing capability to the warfighter. The Program blends several disciplines including surveillance, operations, policy, information, training, and technology.

B. Program Change Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>
Previous President's Budget	32.669	32.832	32.172	
Current BES/President's Budget	37.169	33.447	43.808	
Total Adjustments	4.500	0.615	11.636	
Congressional Program Reductions	-0.254			
Congressional Rescissions		-0.185		
Total Congressional Increases	7.400	0.800		
Total Reprogrammings	-2.109			
SBIR/STTR Transfer	-0.457			
Program Budget Review (PBR) 09 adjustment for Irregular Warfare Support Program			12.000	
Program Budget Review (PBR) 09 adjustments			0.213	
Undistributed Reduction	-0.080			
Efficiency Reduction			-0.577	

Change Summary Explanation

Reprogrammings:

1. Reprogramming to PE 0603122D8Z (SOLIC Advance Development) reflects internal realignment of funds to meet SOLIC priorities -- (0.309)
2. Reprogramming to Army for Aerial Canopy Sensor Delivery System (ACSDS) -- (1.000)
3. Reprogramming to SOCOM (MFP11) for Extended Lifetime Radioisotope Batteries -- (0.800)

Programming Adjustment:

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Provides funding to develop new unique, critical tactical and operational capabilities to provide an advantage in defeating terrorist networks as part of the Irregular Warfare Support Program (+12M FY10-15)		

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APPROPRIATION/BUDGET ACTIVITY 0400 - Research, Development, Test & Evaluation, Defense-Wide/BA 3 - Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603121D8Z SO/LIC Advanced Development					PROJECT NUMBER 206	
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
206: Explosive Ordnance Disposal/Low-Intensity Conflict	7.070	7.360	7.287						Continuing	Continuing
A. Mission Description and Budget Item Justification										
<p>The EOD/LIC program develops and delivers advanced capabilities for military EOD operators and Special Operations Forces (SOF) to meet the challenges of improvised explosive devices (IEDs), force protection, and the war on terrorism. EOD/LIC efforts focus in two areas: support to SOF to combat terrorism; and access, detection, identification, and neutralization of all types of conventional explosive ordnance and improvised explosive devices. Requirements submitted by the Joint Service EOD and Service Special Operations communities are prioritized and approved by Office of the Assistant Secretary of Defense (OASD) (SO/LIC &IC).</p>										
B. Accomplishments/Planned Program (\$ in Millions)							FY 2008	FY 2009	FY 2010	FY 2011
<p>Ordnance Disposal/Low-Intensity Conflict (EOD/LIC)</p> <p><i>FY 2008 Accomplishments:</i> Improved portable unmanned aerial vehicle for EOD and combat missions. Evaluated sensors to detect threats through foliage and other obscurants. Evaluated a bladderless lift balloon to lift ordnance off the sea floor. Developed tools and technologies to enhance performance of robotic platforms in EOD and SOF missions. Improved unmanned surface vessels for reconnaissance of waterways and littoral regions. Evaluated an ordnance penalty simulator for objective performance evaluation of personnel undergoing EOD training at the Naval Explosive Ordnance Disposal School.</p> <p><i>FY 2009 Plans:</i> Test and evaluate unmanned aerial vehicle with improved sensors for IED detection. Integrate sensors to detect threats through foliage and other obscurants onto Special Operations Forces (SOF) riverine crafts. Modify and deliver a user-friendly bladderless lift balloon for SOF and EOD underwater missions. Develop a wireless, non-radio frequency technology for command and control of small robotic platforms for SOF use. Evaluate performance of unmanned surface vehicles to perform reconnaissance of waterways and littoral regions for SOF. Develop tools to enhance arm dexterity and reconnaissance capability of robotic platforms for Unconventional Warfare missions. Investigate potential for development of a tankless cutting torch for SOF use.</p>							7.070	7.360	7.287	

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B. Accomplishments/Planned Program (\$ in Millions)	FY 2008	FY 2009	FY 2010	FY 2011
<p><i>FY 2010 Plans:</i> Transition unmanned aerial vehicle with improved sensors for IED detection. Evaluate integrated sensors for detection of threats through foliage and other obscurants for use to SOF riverine watercraft. Transition to program of record or commercialize a user-friendly bladderless lift balloon for Special Operations and EOD underwater missions. Evaluate a wireless, non-radio frequency technology for command and control of robotic platforms for SOF use. Evaluate tools to enhance arm dexterity and reconnaissance capability of robotic platforms for Unconventional Warfare missions. Develop SOF dynamic entry tools and procedures for robotic platforms. Design and develop a tankless cutting torch for SOF use. Investigate haptic feedback technologies for control of robotic arms, grippers, and end effectors. Investigate advanced access and disablement technologies for defeat of improvised explosive and CBRN devices.7287</p>				
C. Other Program Funding Summary (\$ in Millions) N/A				
D. Acquisition Strategy Not applicable for this item.				
E. Performance Metrics SO/LIC Advanced Development - PE 0603121D8Z; Explosive Ordnance Disposal & Low-Intensity Conflict/P206; Special Reconnaissance Capabilities/P207; Information Dissemination Concepts/P208; Irregular Warfare Support/P209 Long Term Strategies: Obtain adequate funding to support critical shortfalls; prioritize proposals that are deemed acceptable and allocate funding accordingly; and establish outreach to leverage institutional knowledge and expertise. Performance Indicator and Rating: FY 2009 Target: 70% of currently funded research projects are completed on time and within budget 5% increase in the number of projects transitioning to operational use				

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<p>Transition scheduled projects to user communities</p> <p>FY 2010 Target: 70% of currently funded research projects are completed on time and within budget 5% increase in the number of projects transitioning to operational use</p> <p>Basis of FY 2008 to Date Performance Rating: Currently, the number of funded research projects is on track to be completed per the target.</p> <p>Verification: The SO/LIC &IC Advanced Development Program projects each track the status of their efforts. Reviews are conducted to assess project status. Oversight of the entire effort is undertaken by ASD SO/LIC &IC.</p> <p>Validation: Completed research products increase the capabilities of the DoD to effectively detect, deter and defend against terrorist attacks; defeat improvised explosive devices and unexploded ordinance; enable sustained information operations in denied areas; and contribute to resolution of hostile, unconventional conflicts.</p>		

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COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
207: Special Reconnaissance Capabilities	24.693	20.854	19.916						Continuing	Continuing

A. Mission Description and Budget Item Justification

The SRC program primary goal is to seek out and identify technical tools for the collection of actionable data which will assist DoD in its execution of the Global War on Terrorism (GWOT). To accomplish this task, the program leverages emerging and existing developmental technologies from government and commercial ventures and operationalizes them to meet near term reconnaissance and surveillance operational requirements. The operational tools transition unattended sensors, tagging devices, data transfer, remote delivery, and mobility/delivery of sensors into established Programs of Record within USSOCOM and throughout the DoD. The program evaluates new and existing technical surveillance technologies into a reference data base.

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

	FY 2008	FY 2009	FY 2010	FY 2011
SPECIAL RECONNAISSANCE CAPABILITIES	24.693	20.854	19.916	
<p><i>FY 2008 Accomplishments:</i></p> <p>The SRC Program continued to conduct end-to-end testing and demonstrations of a wide variety of small, power efficient beacon and sensor technologies to satisfy urgent Global War on Terrorism (GWOT) requirements. The program conducted training for unattended ground sensors for maritime and ground persistence surveillance. These capabilities and equipment were inserted into operator training exercises to vet tactics, techniques and procedures for employment. The program office identified, evaluated, and directed enhancements to existing tagging, tracking, and locating (TTL) equipment in support of other government agencies to meet emerging requirements. In addition, the office provided enhancements, fielding and conducted operational assessment of an airborne interrogator-transponder prototype system. Delivered several prototypes of a sensor-less visible camera system and began integrating night capabilities. Continued to improve data infiltration and exfiltration capabilities through the integration of advanced technology and new communications links. Continued to improve special reconnaissance (SR) optic capabilities through the integration of advanced optic technology and processing. Improved SR power capabilities through the integration of advanced power technologies and device redesign. Explored and exploited remote control capabilities by reducing form factors, improving</p>				

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B. Accomplishments/Planned Program (\$ in Millions)	FY 2008	FY 2009	FY 2010	FY 2011
<p>power management, and integrating air droppable and maritime capabilities. Performed field evaluations of selected SR technologies and documented results in the on-line SRC knowledgebase. Supported cooperative projects and evaluated technology maturity for new capabilities with the DoD and Other Government Agencies (OGA) that accelerate the transition of advanced SR and TTL technology to the operational community.</p> <p><i>FY 2009 Plans:</i> Insert operationally capable prototypes into operator training exercises to vet technologies and develop new tactics, techniques and procedures for employment. Continue with ongoing efforts to: provide technology support to the Global War on Terrorism (GWOT) to include technology training and variants of tagging, tracking and locating (TTL) and unattended ground sensor prototypes for persistence surveillance; engage the research and development community for technical solutions and candidate technologies to improve DoD special reconnaissance (SR) operational capabilities; evaluate and operationalize sensor and TTL capabilities through insertion of mini and micro maturing technologies; research, evaluate, and integrate enhanced tagging and sensing capabilities to extend mission life and standoff emplacement; integrate extended life mission sensors, micro optics, fingerprinting, emerging precise location technologies, and improved netted SR data infiltration and exfiltration capabilities; research, evaluate, and integrate emerging netted sensor technologies into remote capabilities; perform field evaluations of selected SR technologies and document results in on-line SRC knowledgebase; and support cooperative projects with the DoD and OGA Intelligence Agencies to accelerate the transition of advanced R&S technology to the operational community.</p> <p><i>FY 2010 Plans:</i> Continue to identify, evaluate, and refine promising Reconnaissance and Surveillance (R&S)-related advanced technologies and capabilities for further development, demonstration, and integration. Candidate high payoff technology areas that will be researched, identified, and matured include: improved micro-optics, encrypted wireless technology, advanced day/night sensors, enhanced high speed data fusion, incorporation of nano/pico technologies miniaturization, and the research and evaluation of enhanced TTL sub-systems.</p>				

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C. Other Program Funding Summary (\$ in Millions) N/A		
D. Acquisition Strategy N/A		
E. Performance Metrics N/A		

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COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
208: Information Dissemination Concepts	3.364	3.107	3.077						Continuing	Continuing

A. Mission Description and Budget Item Justification

Information Dissemination Concepts (IDC). The IDC Program addresses technology capabilities necessary to enable sustained information dissemination campaigns in denied areas. The IDC Program, working as necessary with DoD and the interagency, develops, modifies, and demonstrates concepts, mechanisms, platforms and payloads to propagate themes and messages that convince target audiences to take action favorable to the United States and its allies.

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

	FY 2008	FY 2009	FY 2010	FY 2011
INFORMATION DISSEMINATION CONCEPTS <i>FY 2008 Accomplishments:</i> Continued transitioning Multi-Media Alert Processing System (MAPS) to Services. Supported counter-terrorism and combating terrorism operations by improving upon existing tools and expanding technologies to enhance monitoring and translation capabilities across the full spectrum of communication media. Developed new projects to address technology shortfalls in building partnership capacity for distribution of themes and messages favorable to Coalition operations. USSOCOM's PSYOP Global Reach (PGR) Advanced Concept Technology Demonstration (ACTD): Continued development of advanced broadcast/rebroadcast payloads designed for Predator/Extended Range Multi Purpose (ERMP) type UAS platforms. Continued POPAS development and incremental fielding and transition software/hardware. Conducted MUAs and EUEs of scatterable media and the POPAS. Space and Naval Warfare Systems Center (SPAWAR), in FOUO text, continued development effort to track messages globally. Initiated transition to combatant commander (COCOM) and Services. Initiated transition cognitive decision making to COCOMs. Continued effort to develop stand-off technology for message delivery. Addressed limitations of deployment con-ops. Developed tool to deliver the message. Also, investigated potential for messages to be intentionally redirected by adversary. Continued effort to use commercial low power electronics for message reception. Began size reduction effort.	3.364	3.107	3.077	

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B. Accomplishments/Planned Program (\$ in Millions)	FY 2008	FY 2009	FY 2010	FY 2011
<p><i>FY 2009 Plans:</i> USPACOM's Multitmedia Alert Processing System (PACOM MAPS): Implement prototypes into operational environments to vet technologies and develop tactics, techniques, and workflow for actionable intelligence and sentiment analysis, based on real-time media information. Initiate projects through interagency collaboration efforts addressing technology shortfalls in media monitoring. Provide technology to support the Global War on Terrorism and develop tools and techniques that assist in the analysis and planning phase of Information Operations (IO). Investigate mechanisms, sources, platforms, and payloads to provide IO operators with multiple means of being alerted with critical information that affect the delivery of messages to a targeted audience. Initiate new languages that are in various forms of media that support understanding of foreign communications. Enhance the development, demonstration, and performance evaluations of approaches that filter data from local sources and noisy environments. Enable COCOM users with advanced cultural and language skills based on current and relevant media information. Develop capabilities for timely monitoring and control delivery of messages by adversaries. Perform field evaluations of selected technologies. Support interagency projects to accelerate the transition of advanced foreign language technology to the operational community.</p> <p><i>FY 2010 Plans:</i> USPACOM's Multitmedia Alert Processing System (PACOM MAPS): Coordinate additional foreign language collection tools deriving from various sources. Provide new filters for operators to quickly triage large volumes of data from different sources of media. Enhance language learning tools' capabilities for sustaining proficiency and for responding to operator mission needs. Improve the ability to search and manage information. Increase cultural and situational awareness and responsiveness using automated language tools. Conduct further field evaluations of selected technologies. Accelerate the transition of advanced foreign language technology to the operational community.</p>				
C. Other Program Funding Summary (\$ in Millions) N/A				
D. Acquisition Strategy N/A				

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E. Performance Metrics

N/A

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COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
209: Irregular Warfare Support (IWS)	2.042	2.126	13.528						Continuing	Continuing

A. Mission Description and Budget Item Justification

The IWS Program develops cross-domain blended capabilities necessary to enable sustained, counterterrorism operations. This program leverages ongoing research efforts of US Special Operations Command (USSOCOM), the military departments, Defense agencies, and other federal agencies to analyze, modify, design, prototype and demonstrate enduring technical and operational capabilities. Projects support efforts to: conduct counter organization warfare, develop counter motivation capabilities, coordinate infrastructure and sanctuary denial options, and provide counter enterprise and counter financing capability to the warfighter. The Program blends several disciplines including surveillance, operations, policy, information, training and technology.

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

	FY 2008	FY 2009	FY 2010	FY 2011
IRREGULAR WARFARE SUPPORT (IWS)	2.042	2.126	13.528	
<p><i>FY 2008 Accomplishments:</i> Commenced research and analysis of the USG strategic communication (SC) enterprise to include various interagency communities encompassing public affairs, public diplomacy, information operations, and psychological operations. Trained SC users on principles and requirements of television warfare. Kicked off new research efforts aimed at analyzing online jihadi branding phenomena and self-organizing systems. Conducted exploitation and analysis of captured documents from Iranian Revolutionary Guard Corps (IRGC) with an eye towards understanding IRGC doctrine, strategic objectives, tactical employment, and ideology. Leveraged interagency and law enforcement experimental relationships to conduct executive session between several major city police chiefs and DOD leaders to explore requirements for future interagency CT and law enforcement collaboration.</p> <p><i>FY 2009 Plans:</i> Research and develop capabilities that support the Department of Defense and Interagency Irregular Warfare mission in accordance with the Irregular Warfare Joint Operating Concept, DODD 3000.05, and NSPD-44. This will include further experimentation on novel capability designs; assessment of effectiveness; solutions for systems integration, new operational analysis, and development of pilot</p>				

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B. Accomplishments/Planned Program (\$ in Millions)	FY 2008	FY 2009	FY 2010	FY 2011
<p>Irregular Warfare (IW) training and education programs across the Interagency; enhanced counter-human network operations, and novel information age operational concepts.</p> <p><i>FY 2010 Plans:</i> Research and develop capabilities that support the Department of Defense and Interagency Irregular Warfare mission in accordance with the Irregular Warfare Joint Operating Concept, DODD 3000.05 and NSPD-44. This will include further operational analysis of completed FY09 plans; assessment of effectiveness; solutions for systems integration, new operational analysis, and capability design for pilot Irregular Warfare (IW) training and education programs across the Interagency; enhanced counter-human network operations, and novel information age operational concepts.</p>				
C. Other Program Funding Summary (\$ in Millions) N/A				
D. Acquisition Strategy N/A				
E. Performance Metrics N/A				

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