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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Office of Secretary Of Defense **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	32.314	43.453	44.423	0.000	44.423	45.089	45.947	46.407	46.918	Continuing	Continuing
206: <i>Explosive Ordnance Disposal/ Low-Intensity Conflict</i>	7.262	7.228	7.487	0.000	7.487	7.661	7.877	8.016	8.158	Continuing	Continuing
207: <i>Special Reconnaissance Capabilities</i>	20.854	19.755	20.644	0.000	20.644	20.919	21.532	21.912	22.298	Continuing	Continuing
208: <i>Information Dissemination Concepts</i>	2.846	3.052	3.161	0.000	3.161	3.235	3.326	3.384	3.444	Continuing	Continuing
209: <i>Irregular Warfare Support (IWS)</i>	1.352	13.418	13.131	0.000	13.131	13.274	13.212	13.095	13.018	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 and tracking 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 Overseas Contingency Operations (OCO) tasks, 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: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>
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P209, Irregular Warfare Support (IWS). The IWS Program (IWSP) develops adaptive and agile capabilities and methodologies to support irregular warfare in the current and evolving strategic environments. IWSP supports joint, interagency, and international partners who conduct or counter irregular warfare through indirect and asymmetric approaches, though they may employ a full range of military and other capabilities, in order to erode an adversary's power, influence, and will. Solutions include material and non-material operational analysis, concept development, field experimentation, and delivery of capabilities, to defeat the motivations, sanctuaries, and enterprises of targeted state and non-state actors.

B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	32.314	43.808	0.000	0.000	0.000
Current President's Budget	32.314	43.453	44.423	0.000	44.423
Total Adjustments	0.000	-0.355	44.423	0.000	44.423
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Program Adjustments	0.000	-0.355	44.423	0.000	44.423

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>				PROJECT 206: <i>Explosive Ordnance Disposal/Low-Intensity Conflict</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
206: <i>Explosive Ordnance Disposal/Low-Intensity Conflict</i>	7.262	7.228	7.487	0.000	7.487	7.661	7.877	8.016	8.158	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 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).

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Ordnance Disposal/Low-Intensity Conflict (EOD/LIC)	7.262	7.228	7.487	0.000	7.487
<p><i>FY 2009 Accomplishments:</i> Delivered unmanned aerial vehicles with improved sensors for IED detection for EOD use. Delivered modified bladderless balloons for SOF and EOD underwater missions. Evaluated the performance of unmanned surface vehicles to perform reconnaissance of waterways and littoral regions for SOF. Fielded Homemade Explosive Detection kits with an integrated training package for EOD personnel. Integrated a camera boom on to an EOD robotic platform that provides an extended viewing capability for operators. Developed a program of instruction to increase EOD capability to interdict and disable terrorist devices.</p> <p><i>FY 2010 Plans:</i> Evaluate integrated sensors to detect threats through foliage and obscurants onto SOF Riverine crafts. Transition to a program of record or commercialize a bladderless lift balloon for Special Operations and EOD underwater missions. Design tools to enhance arm dexterity and reconnaissance capability</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Office of Secretary Of Defense		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>	PROJECT 206: <i>Explosive Ordnance Disposal/Low-Intensity Conflict</i>
<p>Performance Indicator and Rating:</p> <p>FY 2010 Target: 70% of currently funded research projects are completed on time and within budget Increase the number of project's transition to operational use Transition scheduled projects to user communities</p> <p>FY 2011 Target: 70% of currently funded research projects are completed on time and within budget Increase the number of project's transition to operational use and reduce timelines to transition.</p> <p>Basis of FY 2009 to Date Performance Rating: Currently the number of funded research projects are 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 ordnance; enable sustained information operations in denied areas; and contribute to resolution of hostile, unconventional conflicts.</p>		

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>				PROJECT 207: <i>Special Reconnaissance Capabilities</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
207: <i>Special Reconnaissance Capabilities</i>	20.854	19.755	20.644	0.000	20.644	20.919	21.532	21.912	22.298	Continuing	Continuing

A. Mission Description and Budget Item Justification

P207, Special Reconnaissance Capabilities (SRC). The primary objective of the SRC program is to seek out and identify technical tools for the collection of actionable data and information which will assist DoD in its execution of Overseas Contingency Operations (OCO) tasks. To accomplish this objective, 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 throughout the DoD. The program evaluates new and existing technical surveillance technologies and incorporates results into a reference database for future access.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
SPECIAL RECONNAISSANCE CAPABILITIES	20.854	19.755	20.644	0.000	20.644
<p><i>FY 2009 Accomplishments:</i> The SRC program continued to evaluate, test, demonstrate, and integrate operationally capable beacon and sensor prototypes to vet promising new technologies and to develop new tactics, techniques and procedures (TTPs) for operational employment. Continued with ongoing efforts to: provide advanced technology support to the Overseas Contingency Operations (OCO) to include technology evaluations and training on 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, design and integrate advanced technology antennas for TTL applications,</p>					

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
accuracy; enhanced sensor signal processing; ultra high speed data processing and transmission; next-generation nanotechnology/miniaturization; affordable Application Specific Integrated Circuit (ASIC) technology development; low profile enhanced micro-optics; next-generation precision Hostile Forces Tagging, Tracking, and Locating capabilities; incorporation of the latest technology sensor capabilities; identification and integration of low profile; advanced material miniature antennas; improved placement and concealment of unattended ground sensors; and the integration and fusion of lower power, high bandwidth data transmission sub-systems into R&S systems.						
Accomplishments/Planned Programs Subtotals		20.854	19.755	20.644	0.000	20.644
C. Other Program Funding Summary (\$ in Millions) N/A						
D. Acquisition Strategy N/A						
E. Performance Metrics N/A						

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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				PE 0603121D8Z: <i>SO/LIC Advanced Development</i>				208: <i>Information Dissemination Concepts</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
<i>208: Information Dissemination Concepts</i>	2.846	3.052	3.161	0.000	3.161	3.235	3.326	3.384	3.444	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 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
INFORMATION DISSEMINATION CONCEPTS	2.846	3.052	3.161	0.000	3.161
<p><i>FY 2009 Accomplishments:</i> USPACOM's Multimedia Alert Processing System (PACOM MAPS): Implemented 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. Initiated projects through interagency collaboration efforts addressing technology shortfalls in media monitoring. Provided technology to support the War and developed tools and techniques that assisted in the analysis and planning phase of Information Operations (IO). Investigated 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. Initiated new languages that are in various forms of media that support understanding of foreign communications. Enhanced the development, demonstration, and performance evaluations of approaches that filter data from local sources and noisy environments. Enabled COCOM users with advanced cultural and language skills based on current and relevant media information. Developed capabilities for timely monitoring and control delivery of messages by adversaries. Performed field evaluations of selected technologies.</p>					

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>Supported interagency projects to accelerate the transition of advanced foreign language technology to the operational community.</p> <p><i>FY 2010 Plans:</i> USPACOM's Multimedia 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> <p><i>FY 2011 Base Plans:</i> Enhance language learning tools' capabilities. Adapt and integrate existing foreign language applications, practices, and tools into a tactical site exploitation capability. Improve the timely collection of intelligence and evidence to support follow-on targeting, effective detainee prosecution, and theater-wide exploitation of tactical intelligence. Deploy capabilities that will enrich language packet creation with a variety of media sources. Deliver a capability that supports the automated inbound and outbound integration of available video and audio sources. Develop novel approaches to query, track, and exploit multimedia from broadcast, radio, offline videos, and web sources.</p>								
Accomplishments/Planned Programs Subtotals				2.846	3.052	3.161	0.000	3.161
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 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
209: <i>Irregular Warfare Support (IWS)</i>	1.352	13.418	13.131	0.000	13.131	13.274	13.212	13.095	13.018	Continuing	Continuing

A. Mission Description and Budget Item Justification

P209, Irregular Warfare Support (IWS). The IWS Program (IWSP) develops adaptive and agile capabilities and methodologies to support irregular warfare in the current and evolving strategic environments. IWSP supports joint, interagency, and international partners who conduct or counter irregular warfare through indirect and asymmetric approaches, though they may employ a full range of military and other capabilities, in order to erode an adversary's power, influence, and will. Solutions include material and non-material operational analysis, concept development, field experimentation, and delivery of capabilities, to defeat the motivations, sanctuaries, and enterprises of targeted state and non-state actors.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
IRREGULAR WARFARE SUPPORT (IWS)	1.352	13.418	13.131	0.000	13.131
<p><i>FY 2009 Accomplishments:</i> Developed capabilities to support the Department of Defense and Interagency Irregular Warfare (IW) mission. Developed and delivered novel capabilities that dramatically enhanced the ability of host-nation partners to collect and manage police and other elements of security information. Assessed effectiveness; integrated system solutions; conducted unique operational analysis; and developed pilot IW training and education programs for DOD and participating agencies. Developed enhanced counter-human network targeting methodology; proof-of-principle operational methodology for the use of trans-media to shape self-organizing system behaviors; and non-kinetic engagement concepts including information-age threat finance strategies.</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,</p>					

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>DODD 3000.07, and NSPD-44. Continue spiral development of capabilities based on lessons learned during field experimentation and the dynamic nature of adversaries. Identify adaptation and/or transition opportunities from analysis and assessment investments. Research and develop solutions for the International Security Assistance Force (ISAF) to solve critical capability gaps to re-orient a diverse, dispersed force, during major counterinsurgency operations. Analyze and support development of solutions for a holistic counterinsurgency campaign and approach to include rapid feedback on technical counterinsurgency issues to the ISAF commanders and leaders. Research, design and field-test solutions to enhance and improve client organization efforts to erode adversaries' power, influence, and will through non-kinetic operations. Support development of new capabilities for the rapidly evolving Traditional Military Information Operations by Geographical Combatant Commanders (GCC). Develop new command and control doctrine for military intelligence forces and operational staffs for rapid operational evaluation in-theater. Develop and field-test a pilot program to assist military commands in building host-nation intelligence capacity and capability to include the feasibility of migrating to other areas of operation the unique doctrine and lessons learned during support to Operation Iraqi Freedom.</p> <p><i>FY 2011 Base Plans:</i> Research and develop promising capabilities and continue project development, delivery, and transition to support the Department of Defense and Interagency Irregular Warfare mission. Projects will identify and address requirements from the following major focus areas: Effects-Based Operations Integration; Indirect Communications Support; Knowledge Management; Mission Rehearsal and Exercise; and Pursuit and Denial. Deliver tailored counterinsurgency capabilities to ISAF in order to address capability gaps realized during development of prototype solutions. After pilot experimentation in new areas of operations, deliver and transfer to specific operational customers the capability for improved host-nation police counterinsurgency capabilities. Support implementation of newly developed command and control structures, optimized for counterinsurgency and irregular warfare unit task organizations, at operational and tactical command levels. Develop capabilities; assess effectiveness of current strategies and capabilities; design solutions to integrate</p>								

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
into current systems; and develop enhanced Irregular Warfare training and education programs across participating agencies. Continue spiral development of capabilities to enhance methodologies and operational solutions. Identify adaptation and/or transition opportunities from analysis and assessment investments to include other areas of potential threat and engagement with hostile organizations and supporting structures.						
Accomplishments/Planned Programs Subtotals		1.352	13.418	13.131	0.000	13.131
C. Other Program Funding Summary (\$ in Millions) N/A						
D. Acquisition Strategy N/A						
E. Performance Metrics N/A						

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