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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>					PE 1160401BB: <i>Special Operations Technology Development</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	295.615	40.517	28.739	29.246	-	29.246	29.750	30.289	30.834	31.389	Continuing	Continuing
S100: <i>SO Technology Development</i>	295.615	40.517	28.739	29.246	-	29.246	29.750	30.289	30.834	31.389	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This program element enables USSOCOM to conduct studies and develop laboratory prototypes for applied research and advanced technology development, as well as leverage other organizations' technology projects that may not otherwise be affordable within MFP-11. Applying small incremental amounts of investments to DoD, other government agencies, and commercial organizations allows USSOCOM to influence the direction of technology development or the schedule against which it is being pursued, and to acquire emerging technologies for Special Operations Forces. This project provides an investment strategy for USSOCOM to link technology opportunities with capability deficiencies, capability objectives, technology thrust areas, human endurance and sensory performance, and technology development objectives.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	41.591	28.739	29.246	-	29.246
Current President's Budget	40.517	28.739	29.246	-	29.246
Total Adjustments	-1.074	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.074	-			

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: S100: *SO Technology Development*

Congressional Add: *Unfunded Requirement*

	FY 2012	FY 2013
	15.000	-
Congressional Add Subtotals for Project: S100	15.000	0.000
Congressional Add Totals for all Projects	15.000	0.000

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>		R-1 ITEM NOMENCLATURE PE 1160401BB: <i>Special Operations Technology Development</i>
<u>Change Summary Explanation</u> Funding: FY 2012: Program decrease of \$1.074 million is due to a transfer of funds to the Small Business Innovative Research Program. FY 2013: None. FY 2014: None. Schedule: None. Technical: None.		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 2: Applied Research					R-1 ITEM NOMENCLATURE PE 1160401BB: Special Operations Technology Development				PROJECT S100: SO Technology Development			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
S100: SO Technology Development	295.615	40.517	28.739	29.246	-	29.246	29.750	30.289	30.834	31.389	Continuing	Continuing
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
^{##} The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments, and leverages other organizations' technology projects that may not otherwise be affordable within MFP-11. Small incremental co-investments with DoD, other government agencies, and commercial organizations allows USSOCOM to influence the schedule and direction of technology developments, emerging technologies, and capabilities for Special Operations Forces (SOF), with significant economies of investment. This USSOCOM investment strategy is used to link technology opportunities with USSOCOM capability deficiencies, capability objectives; technology thrust areas, and technology objectives. Requirements in these areas may be advertised to industry and government research and development agencies via broad area announcements and calls for white papers. Sub-projects within the Special Operations Technology Demonstration effort include:												
• Special Operations Technology Development Sub-Project: This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments, and leverages other organizations' technology projects that may not otherwise be affordable within MFP-11.												
• Tagging, Tracking, and Locating (TTL) Sub-Project: TTL funds Applied Research projects identified in the USSOCOM Capabilities Based Assessments. TTL applies leading edge nanotechnology, biometric and biotechnology, and chemistry S&T which is directed towards the development of revolutionary tags, taggants, sensors, communications, and data processing.												
• Classified Sub-Project (provided under separate cover).												
• The following technology activity was added by Congress in FY 2012:												
• Congressional add: Unfunded Requirement - Increased development of multi-spectral optics which will address night vision capability gaps; assessed approaches to address unique power requirements for SOF mobility platforms; and initiated efforts to address biometric and non-lethal engagement needs. Classified unfunded requirement details are provided under separate cover.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Special Operations Technology Development									11.462	12.226	12.427	
FY 2012 Accomplishments:												

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
Pursued reduced signature technologies; developed advanced lightweight armor and materials; and began development of long duration small form factor power supplies, and alternative fuel power systems. Continued to advance technologies for combat medical equipment and tactics. Continued pursuit of methods to reduce operator load and provide advanced protection. Developed technologies for improved Man-Machine Interface and functionality of Target Engagement Systems and investigate technologies that can be applied to increase human performance and endurance; pursue enhancements to technologies that can aid in detection of enemy intentions and movement. Continued further development of Multi-Spectral Optics, Digital Night Vision, Digital Fusion, Short-Wave Infrared Radar Characterization, Power Systems and Advanced Optics transition mature technology into programs of record. FY 2013 Plans: Continue ongoing technology development sub-projects in areas such as, but not limited to: reduced signature technologies; advanced lightweight armor and materials; multi-domain mobility platforms; long duration small form factor power supplies; alternative fuel power systems and eco-friendly energy devices. Advance technologies for combat medical equipment and tactics; sensor and processing improvements; improve interfaces and displays; and secure communications. Continue pursuit of methods to reduce operator load and provide advanced protection. Develop technologies for improved and widened window of target engagement (escalation of force); pursue enhancements to technologies that can aid in detection of enemy intentions and movement; and continue development and exploration across the electromagnetic spectrum. Based upon agreed technology maturity metrics, transfer successful projects into programs of record. FY 2014 Plans: Continues ongoing technology development sub-projects in areas such as, but not limited to: reduced signature technologies; advanced lightweight armor and materials; long duration small form factor power supplies; and alternative fuel power systems. Advances technologies for combat medical equipment and tactics; sensor and processing improvements; improve interfaces and displays; and secure communications. Continues pursuit of methods to reduce operator load and provides advanced protection. Develops technologies for improved and widened window of target engagement (escalation of force); pursues enhancements to technologies that can aid in detection of enemy intentions and movement; and continues development and exploration across the electromagnetic spectrum. Based upon agreed technology maturity metrics, transfer successful projects into programs of record.					
Title: Tagging, Tracking, and Locating Technologies (TTL) FY 2012 Accomplishments: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Continued projects to exploit nanotechnology, biotechnology and chemistry for application to TTL systems. Initiated projects linked to the USSOCOM/DoD TTL Roadmap. Support the JCS TTL Quick Look Capability Assessment. FY 2013 Plans:			12.059	14.371	14.634

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 2: <i>Applied Research</i>		R-1 ITEM NOMENCLATURE PE 1160401BB: <i>Special Operations Technology Development</i>		PROJECT S100: <i>SO Technology Development</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
Specific objectives, priorities, technical approaches, and potential operational applications are classified. Continue projects to exploit nanotechnology, biotechnology and chemistry for application to TTL and TTL-enabling systems. Initiate projects linked to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL Quick-Look Capabilities-Based Assessment (QL-CBA).					
FY 2014 Plans: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Continues projects to exploit nanotechnology, biotechnology and chemistry for application to TTL and TTL-enabling systems. Initiates projects linked to the USSOCOM/DoD TTL Roadmap, which is updated via the JCS/J8-approved annual TTL Quick-Look Capabilities-Based Assessment (QL-CBA).					
Title: Classified			1.996	2.142	2.185
FY 2012 Accomplishments: Details provided under separate cover.					
FY 2013 Plans: Details provided under separate cover.					
FY 2014 Plans: Details provided under separate cover.					
Accomplishments/Planned Programs Subtotals			25.517	28.739	29.246
			FY 2012	FY 2013	
Congressional Add: Unfunded Requirement			15.000	-	
FY 2012 Accomplishments: Expanded and enhanced current Unclassified Test Bed (UTB) capabilities such as evaluating, developing, prototyping and fabricating quick reaction prototypes. Included in this effort, is a classified area that will provide SOF the ability to quickly transition candidate technologies with multiple levels of classification. Continued integration of Multi-Spectral optics, which addresses night vision capability gaps and signature management improvements; developed power solutions for SOF mobility platforms; and continued efforts to address non-lethal engagement needs.					
Congressional Adds Subtotals			15.000	0.000	
C. Other Program Funding Summary (\$ in Millions)					
N/A					

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