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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 United States Special Operations Command	Date: March 2014
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Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 2: Applied Research	R-1 Program Element (Number/Name) PE 1160401BB / SOF Technology Development
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	336.051	37.515	28.307	39.750	-	39.750	37.789	38.334	33.889	34.450	Continuing	Continuing
S100: SOF Technology Development	336.051	37.515	28.307	39.750	-	39.750	37.789	38.334	33.889	34.450	Continuing	Continuing

The FY 2015 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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	28.739	29.246	29.750	-	29.750
Current President's Budget	37.515	28.307	39.750	-	39.750
Total Adjustments	8.776	-0.939	10.000	-	10.000
• Congressional General Reductions	-3.363	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-0.055	-			
• Congressional Adds	12.852	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.181	-			
• SBIR/STTR Transfer	-0.839	-0.939			
• Other Adjustments	-	-	10.000	-	10.000

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

Project: S100: SOF Technology Development

Congressional Add: *Unfunded Requirement - Congressional Add was reduced by sequestration \$1.046 million.*

Congressional Add Subtotals for Project: S100

Congressional Add Totals for all Projects

FY 2013	FY 2014
11.806	-
11.806	-
11.806	-

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<u>Change Summary Explanation</u> Funding: FY 2013: Net increase of \$8.776 million is due to sequestration reductions (-\$3.363 million), congressional rescissions (-\$0.055 million), congressional add (\$12.852 million), reprogramming to the Shark Bite - Wound Stasis Program (\$0.181 million), and transfer of funds to Small Business Innovative Research Program (-\$0.839 million). Sequestration Impacts: Re-prioritized and adjusted funding to various projects. FY 2014: Decrease of \$0.939 million is due to transfer of funds to Small Business Innovative Research Program/Small Business Technology Transfer Program. FY 2015: Increase of \$10.000 million develops technologies for increased investment in core technologies of interest to the SOF warfighter. Schedule: None. Technical: None.		

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Appropriation/Budget Activity 0400 / 2					R-1 Program Element (Number/Name) PE 1160401BB / SOF Technology Development				Project (Number/Name) S100 / SOF Technology Development			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S100: SOF Technology Development	336.051	37.515	28.307	39.750	-	39.750	37.789	38.334	33.889	34.450	Continuing	Continuing
# The FY 2015 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 SOF Technology Demonstration effort include:												
• SOF 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 2013:												
• Congressional add: Unfunded Requirement - Increased development of small unit dominance capabilities addressing highest priority unfunded requirements. Began assessing the integration of critical technologies focused on providing the dismounted special operator leap ahead capabilities via innovative collaborative processes. Initial focus is to initiate revolutionary technical advancement in warfighter protection and augmentation to maximize kinetic potential and minimize the risk to Special Operations Force's direct assaulters.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: SOF Technology Development									10.963	12.028	22.624	
FY 2013 Accomplishments:												

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015
Continued 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. Advanced technologies for combat medical equipment and tactics; sensor and processing improvements; improved interfaces and displays; and secure communications. Continued pursuit of methods to reduce operator load and provide advanced protection. Developed technologies for improved and widened window of target engagement (escalation of force); pursued enhancements to technologies that can aid in detection of enemy intentions and movement; and continued development and exploration across the electromagnetic spectrum. Based upon agreed technology maturity metrics, transferred successful projects into programs of record.					
FY 2014 Plans: Continue ongoing technology development sub-projects in areas such as, but not limited to: reduce signature technologies; advance lightweight armor and materials; long duration small form factor power supplies; and alternative fuel power systems. 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 provides 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 continues development and exploration across the electromagnetic spectrum. Based upon agreed technology maturity metrics, transfer successful projects into programs of record.					
FY 2015 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; improves 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, transfers successful projects into programs of record. Continues the integration of critical technologies focused on providing the dismounted special operator leap-ahead capabilities via innovative collaborative processes. Focus is on delivering prototype system for soldier protection and augmentation and continues development of situational awareness and command/control systems.					
Title: Tagging, Tracking, and Locating Technologies (TTL)			12.837	14.165	14.896
FY 2013 Accomplishments: Specific objectives, priorities, technical approaches, and potential operational applications are classified. Continued projects to exploit nanotechnology, biotechnology and chemistry for application to TTL and TTL-enabling systems. Initiated projects linked					

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015
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. 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 QL-CBA.					
FY 2015 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 QL-CBA.					
Title: Classified			1.909	2.114	2.230
FY 2013 Accomplishments: Details provided under separate cover.					
FY 2014 Plans: Details provided under separate cover.					
FY 2015 Plans: Details provided under separate cover.					
Accomplishments/Planned Programs Subtotals			25.709	28.307	39.750
			FY 2013	FY 2014	
Congressional Add: Unfunded Requirement - Congressional Add was reduced by sequestration \$1.046 million.			11.806	-	
FY 2013 Accomplishments: Increased development of small unit dominance capabilities addressing highest priority unfunded requirements. Began assessing the integration of critical technologies focused on providing the dismounted special operator leap ahead capabilities via innovative collaborative processes. Initial focus is on revolutionary technical advancement in warfighter protection and augmentation to maximize kinetic potential and minimize the risk to SOF's direct assaulters.					
Congressional Adds Subtotals			11.806	-	
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		