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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: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					PE 1160474BB: SOF Communications Equipment and Electronics Systems							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	116.252	1.356	2.225	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	119.833
S700: SOF Communications Equipment and Electronics Sys	116.252	1.356	2.225	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	119.833

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

## Note

Beginning in FY2014, this Program Element (PE) 1160404BB, SOF Communications Equipment and Electronics has been consolidated into SOCOM PE 1160431BB, Warrior Systems.

## A. Mission Description and Budget Item Justification

This program element provides for communication systems to meet emergent requirements to support Special Operations Forces (SOF). The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. SOF units require communications equipment that improves their warfighting capability without degrading their mobility. Therefore, SOF Communications Equipment and Electronics is a continuing effort to develop smaller, lighter, more efficient and more robust SOF Command, Control, Communications, and Computer (C4) capabilities.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>
Previous President's Budget	1.392	2.225	2.428	-	2.428
Current President's Budget	1.356	2.225	0.000	-	0.000
Total Adjustments	-0.036	0.000	-2.428	-	-2.428
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.036	-			
• Other Adjustments.	-	-	-2.428	-	-2.428

## Change Summary Explanation

Funding:

FY 2012: Decrease of \$0.036 million due to a transfer of funds to Small Business Innovative Research.

PE 1160474BB: SOF Communications Equipment and Electronics  
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>
<p>FY2013: None.</p> <p>FY2014: Decrease of \$2.428 million is due to beginning in FY2014, this Program Element has been consolidated into SOCOM Program Element 1160431BB.</p> <p>Schedule: None.</p> <p>Technical: None.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					PE 1160474BB: SOF Communications Equipment and Electronics Systems				S700: SOF Communications Equipment and Electronics Sys			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
S700: SOF Communications Equipment and Electronics Sys	116.252	1.356	2.225	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	119.833
Quantity of RDT&E Articles												
# 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 provides for communication systems to meet emergent requirements to support Special Operations Forces (SOF). The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. SOF units require communications equipment that improves their warfighting capability without degrading their mobility. Therefore, SOF Communications Advanced Development is a continuing effort to develop smaller, lighter, more efficient and more robust SOF Command, Control, Communications, and Computer (C4) capabilities.												
United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that C4 systems continue to provide SOF with the required capabilities throughout the 21st century. USSOCOM's C4 systems comprise an integrated network of systems providing positive command and control and the timely exchange of information to all organizational echelons. The C4I systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration within the Global Information Grid (GIG). The GIG is a multitude of existing and projected national assets that allows SOF elements to operate with any force combination in multiple environments.												
• SOF Deployable Node (SDN) is a family of satellite communications systems that includes the following variants: heavy, medium, and light. This program consists of a family of deployable, super high frequency, multi-band, satellite communications (SATCOM) systems capable of supporting high-capacity, voice, data, and video services at all levels of classification.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: SDN									1.356	2.225	0.000	
FY 2012 Accomplishments: Continued Worldwide Global Satellite certification testing of new SDN systems. Began evaluation and integration of new basebands into the SDN family. Continued testing and evaluation of new and modified SDN systems and components, such as SATCOM on-the-move (SOTM) and technologies to extend SIE services through SDN systems. Tested and evaluated 1.2-meter inflatable antennas, and completed testing of a new Tactical Beyond Line of Sight technology.												
FY 2013 Plans:												

PE 1160474BB: *SOF Communications Equipment and Electronics*  
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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 United States Special Operations Command										<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>				<b>PROJECT</b> S700: <i>SOF Communications Equipment and Electronics Sys</i>				
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>										<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
Continue to develop, test, and evaluate next generation light manpack systems and multi-purpose baseband, and the next generation medium terminal. Also, extend current SOF assured communications services to the tactical operator leveraging hand-held 3G/4G technology.												
<b>Accomplishments/Planned Programs Subtotals</b>										1.356	2.225	0.000
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
<b>Line Item</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	
• PROC3: COMMUNICATIONS EQUIPMENT AND ELECTRONICS	171.602	99.989	0.000		0.000	0.000	0.000	0.000		0.000	271.440	
<b>Remarks</b>												
<b>D. Acquisition Strategy</b>												
• SDN is a fielded program with ETI into all variants: heavy, medium, and light variants. Commercial and government agency sources will be leveraged for required certifications, functional and operational test, and acceptance support.												
<b>E. Performance Metrics</b>												
N/A												

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2014 United States Special Operations Command **DATE:** April 2013

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	<b>R-1 ITEM NOMENCLATURE</b> PE 1160474BB: SOF Communications Equipment and Electronics Systems	<b>PROJECT</b> S700: SOF Communications Equipment and Electronics Sys
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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SOF Deployable Node	Various	Various:Various	1.599	1.356	Nov 2011	2.225	Nov 2012	-		-		-	0.000	5.180	
Prior Year Funding - Completed Efforts	C/Various	various:various	114.653	-		-		-		-		-	0.000	114.653	
<b>Subtotal</b>			116.252	1.356		2.225		0.000		0.000		0.000	0.000	119.833	
<b>Project Cost Totals</b>			116.252	1.356		2.225		0.000		0.000		0.000	0.000	119.833	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 United States Special Operations Command												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE						PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide						PE 1160474BB: SOF Communications						S700: SOF Communications Equipment and			
BA 7: Operational Systems Development						Equipment and Electronics Systems						Electronics Sys			

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
SOF Deployable Node																												
Evolutionary Technology Insertions																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 United States Special Operations Command			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 1160474BB: <i>SOF Communications Equipment and Electronics Systems</i>	<b>PROJECT</b> S700: <i>SOF Communications Equipment and Electronics Sys</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>SOF Deployable Node</i></b>				
Evolutionary Technology Insertions	1	2012	4	2013