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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 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i>
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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	14.142	4.797	4.959	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	23.898
<i>S225: SOF Information and Broadcast Systems Adv Tech</i>	14.142	4.797	4.959	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	23.898

[#] 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

Note

Beginning in FY2014, this Program Element (PE) 1160472BB, SOF Information and Broadcast Systems Advanced Technology has been consolidated into SOCOM PE 1160402BB, Special Operations Advanced Technology Development.

A. Mission Description and Budget Item Justification

This Program Element (PE) conducts rapid prototyping, advanced technology demonstrations, and advanced concept technology demonstrations of information and broadcast systems technology. Includes planning, analyzing, evaluating, and production information systems capabilities and distribution/dissemination broadcast systems capabilities. It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by Special Operations Forces (SOF) users. This PE integrates efforts with each other and conducts technology demonstrations in conjunction with joint experiments and other assessment events. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The PE also addresses unique, joint special mission or area-specific needs for which prototypes must be developed on a rapid response basis, or are of sufficient time sensitivity to accelerate the prototyping effort of a normal acquisition program in any phase.

B. Program Change Summary (\$ in Millions)

	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	4.924	4.959	5.045	-	5.045
Current President's Budget	4.797	4.959	0.000	-	0.000
Total Adjustments	-0.127	0.000	-5.045	-	-5.045
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.127	-			
• Other Adjustments	-	-	-5.045	-	-5.045

PE 1160472BB: *SOF Information and Broadcast Systems Advanced Tec...*

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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 1160472BB: *SOF Information and Broadcast Systems Advanced Technology*

Change Summary Explanation

Funding:

FY 2012: Decrease of \$0.127 million is due to a transfer of funds to Small Business Innovative Research.

FY 2013: None.

FY 2014: Decrease of \$5.045 million is due to beginning in FY2014, this Program Element (PE) 1160472BB has been consolidated into SOCOM PE 1160402BB.

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: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i>	PROJECT S225: <i>SOF Information and Broadcast Systems Adv Tech</i>
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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
S225: <i>SOF Information and Broadcast Systems Adv Tech</i>	14.142	4.797	4.959	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	23.898

[#] 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 rapid prototyping of information and broadcast system technology. This includes cyber capabilities that predict the best media channels to reach potential target audiences, data mining and information collections tools, propaganda and social behavior analytical tools, cultural analysis toolsets and emerging technologies that support the planning and analytical needs for the Military Information Support Operations (MISO) forces. It provides a means for demonstrating and evaluating the utility of emerging/advanced technologies in as realistic an operational environment as possible by SOF users. This project integrates efforts and conducts technology demonstrations in conjunction with joint experiments and other assessment events and performs market research on emerging technologies that support all phases of MISO. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. The project also addresses unique, joint special mission or area-specific needs. Seeks technologies that will transform current MISO capabilities through two major objectives: 1) Exploit technologies capable of disseminating products to reach target audiences across a variety of media to include audiences in denied areas. 2) Automate and improve MISO planning and analytical capability through technologies that are integrated into SOF planning systems (Cultural Analysis, Targeting, Theme Development, Media & Product Selection, Distribution & Dissemination, and Measures of Effectiveness). Develops software applications that increase the efficiency and shorten the timeline to get MISO dissemination packages approved. Develops hardware/software tools that facilitate the collaboration and sharing of information and other critical data.

MISO Modernization. This initiative will initiate and continue development of emergent technologies available in the marketplace to transform and modernize MISO planning, analysis, development, broadcast, distribution, dissemination, and feedback capabilities. This initiative will also continue development of appropriate emerging technologies initially identified by ATDs and JCTDs to transition to acquisition programs. Technologies include: multi-frequency broadcast systems; digital broadcast capabilities; remote controlled electronic paper; near-real-time command and control of unattended MISO systems, especially in denied areas; focused/beam speaker sound technologies; visual projection technologies; advanced commercial broadcast technologies including amplitude modulation (AM) and frequency modulation (FM) radio transmitters and antenna; television (TV) transmitter and antenna systems; internet and telephony dissemination and broadcast systems; technologies capable of disseminating MISO products to reach target audiences across a wide variety of media into denied areas; and technologies that automate and improve MISO planning and analytical capability through integrated capabilities.

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

	FY 2012	FY 2013	FY 2014
Title: MISO Modernization	4.797	4.959	0.000
FY 2012 Accomplishments:			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
<p>Distributed audio media analysis capabilities from MIS enterprise and developed internet dissemination methods. Began development of Distributable Audio Media (DAM)/Scatterable Media (SM) prototype that will confirm viability of capability, automated production capabilities of DAM/SM, and mass recording capability of DAM/SM.</p> <p>Prototyped an enterprise environment for MISO Soldiers that automates the planning process of the seven phases of MISO while integrating various software tools to assist the operator in each of the seven phases.</p> <p>Created a cultural information data sharing system to holistically display trends in MISO atmospherics while exponentially increasing the ability to collaborate, communicate, share, and store information.</p> <p>The automated MISO planning tool SAVANT, has transitioned and is installed on all the MISOB Medium Production Center family of systems. SAVANT is also used as a training tool for new operators at the Special Warfare Center and School.</p> <p>FY 2013 Plans: Continue to transition previously developed technologies to programs of record.</p>			
Accomplishments/Planned Programs Subtotals	4.797	4.959	0.000

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC1: <i>Military Information Support Operations</i>	4.142	27.417								0.000	31.559

Remarks

D. Acquisition Strategy
N/A

E. Performance Metrics
N/A