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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 United States Special Operations Command **DATE:** February 2011

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*

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	0.966	4.942	4.924	-	4.924	4.899	4.982	5.065	5.151	Continuing	Continuing
S225: <i>SOF Information and Broadcast Systems Adv Tech</i>	0.966	4.942	4.924	-	4.924	4.899	4.982	5.065	5.151	Continuing	Continuing

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 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 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	4.967	4.942	4.924	-	4.924
Current President's Budget	0.966	4.942	4.924	-	4.924
Total Adjustments	-4.001	-	-	-	-
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-3.843	-			
• SBIR/STTR Transfer	-0.158	-			
• Other Adjustment	-	-	-	-	-

Change Summary Explanation

Funding:

FY 2010 Decrease of \$4.001 is due to an Above Threshold Reprogramming (FY10-14 PA, dated 15 Sep 2010) to higher command priorities (-\$3.843 million) and a transfer of funds to Small Business Innovative Research (-\$.158 million).

FY 2011 None.

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<div>FY 2012 None.</div> <div>Schedule: None.</div> <div>Technical: None.</div>		

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Exhibit R-2A, RDT&E Project Justification: PB 2012 United States Special Operations Command **DATE:** February 2011

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 1160472BB: <i>SOF Information and Broadcast Systems Advanced Technology</i>				S225: <i>SOF Information and Broadcast Systems Adv Tech</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
S225: <i>SOF Information and Broadcast Systems Adv Tech</i>	0.966	4.942	4.924	-	4.924	4.899	4.982	5.065	5.151	Continuing	Continuing

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 ACTDs 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 2010	FY 2011	FY 2012
Title: MISO Modernization	0.966	4.942	4.924
FY 2010 Accomplishments: Continued exploring emerging technologies available in the marketplace to transform and modernize technology capabilities.			
FY 2011 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
<p>Transitions previously developed technologies to programs of record such as Fly-Away Broadcast System and Media Production. These capabilities developed under the MISO modernization effort will drastically enhance the legacy programs and position the warfighter to fight future wars.</p> <p><i>FY 2012 Plans:</i> Continue to transition previously developed technologies to programs of record.</p>			
Accomplishments/Planned Programs Subtotals		0.966	4.942
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy N/A			
E. Performance Metrics N/A			