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Exhibit R-2, PB 2010 United States Special Operations Command RDT&E Budget Item Justification **DATE:** May 2009

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE					
0400 - Research, Development, Test & Evaluation, Defense-Wide/BA 3 - Advanced Technology Development (ATD)					PE 1160472BB SOF Information and Broadcast Systems Advanced Technology					
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	0.000	10.960	4.988						Cont.	Cont.
S225: SOF Information and Broadcast Systems Advanced Technology	0.000	10.960	4.988						Cont.	Cont.

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. This includes planning, analysis, evaluation, and production information systems capabilities and distribution and 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 a few-of-a-kind 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 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>
Previous President's Budget	0.000	10.990	5.950	
Current BES/President's Budget	0.000	10.960	4.988	
Total Adjustments	0.000	-0.030	-0.962	
Congressional Program Reductions	0.000	-0.030		
Congressional Rescissions	0.000	0.000		
Total Congressional Increases	0.000	0.000		
Total Reprogrammings	0.000	0.000		
SBIR/STTR Transfer	0.000	0.000		
realignment to higher command priorities			-0.893	
economic assumptions			-0.069	

Change Summary Explanation

Funding:

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<p>FY09: Net decrease of -\$0.030 million is due to Congressional reduction for Section 8101 (-\$0.030 million).</p> <p>FY10: Decrease of -\$0.962 million is due to realignment to higher command priorities (-\$0.893 million) and a decrease for economic assumptions (-\$0.069 million).</p> <p>Schedule: None.</p> <p>Technical: None.</p> <p>Technical: None</p>		

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Exhibit R-2a, PB 2010 United States Special Operations Command RDT&E Project Justification								DATE: May 2009		
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					PROJECT NUMBER S225	
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
S225: SOF Information and Broadcast Systems Advanced Technology	0.000	10.960	4.988						Cont.	Cont.

A. Mission Description and Budget Item Justification

This project conducts rapid prototyping, advanced technology demonstrations (ATDs), and advanced concept technology demonstrations (ACTDs) of information and broadcast system technology. 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 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 project also addresses unique, joint special mission or area-specific needs for which a few-of-a-kind 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. Efforts include:

Psychological Operations (PSYOP) "Global Reach" ACTD. Seeks technologies that will transform current PSYOP capabilities through two major objectives: 1) Exploit technologies capable of disseminating products to reach target audiences across a variety of media into denied areas to include ranges up to 800 nautical miles (NM), and 2) automate and improve PSYOP 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).

PSYOP Modernization. This initiative will initiate and continue development of emergent technologies available in the marketplace to transform and modernize PSYOP 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 broadcasts systems; digital broadcast capabilities; remote controlled electronic paper; near real-time command and control of unattended PSYOP 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 PSYOP products to reach target audiences across a wide variety of media into denied areas; and technologies that automate and improve PSYOP planning and analytical capability through integrated capabilities.

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

	FY 2008	FY 2009	FY 2010	FY 2011
PSYOP "Global Reach" ACTD	0.000	4.832	0.000	

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B. Accomplishments/Planned Program (\$ in Millions)	FY 2008	FY 2009	FY 2010	FY 2011
<p>PSYOP "Global Reach" ACTD</p> <p><i>FY 2009 Plans:</i> Demonstrate and perform an extended user evaluation (EUE) for the broadcast payloads on Predator type Unmanned Aerial Vehicle platforms. Demonstrate and perform EUE for the broadcast payload for High Altitude Unmanned Aerial System (Global Observer or HALE). Both of these EUEs will be in preparation for transition. In addition, demonstrate and perform EUE for the PSYOP Planning and Analysis System, which will lead to the transition of software/hardware.</p>				
<p>PSYOP Modernization</p> <p>PSYOP Modernization</p> <p><i>FY 2009 Plans:</i> Explore emergent technologies available in the marketplace to transform and modernize PSYOP technology capabilities across several PSYOP shortcomings to include: the next generation loudspeaker system, long range broadcast system, PSYOP media displays, and next generation leaflet delivery system. This effort will also enhance and modernize PSYOP broadcast systems and PSYOP print systems.</p> <p><i>FY 2010 Plans:</i> Explore emergent technologies available in the marketplace to transform and modernize PSYOP technology capabilities across several PSYOP shortcomings to include: the next generation loudspeaker system, long range broadcast system, PSYOP media displays, and next generation leaflet delivery system. This effort will also enhance and modernize PSYOP broadcast systems and PSYOP print systems.</p>	0.000	6.128	4.988	

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C. Other Program Funding Summary (\$ in Millions)										
	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
RDT&E, S200/Special Operations Technology	5.802	0.000	0.000						0	0
D. Acquisition Strategy N/A										
E. Performance Metrics N/A										

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