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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 United States Special Operations Command **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0304210BB: <i>Applications for Contingencies (SAFC)/9999</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	23.020	27.467	16.272	0.000	16.272	16.574	16.886	17.170	17.459	Continuing	Continuing
9999: <i>Special Applications for Contingencies (SAFC)/9999</i>	23.020	27.467	16.272	0.000	16.272	16.574	16.886	17.170	17.459	Continuing	Continuing

A. Mission Description and Budget Item Justification

The SAFC program element develops and deploys special capabilities to perform intelligence surveillance and reconnaissance for deployed Special Operations Forces (SOF) using non-traditional means. It provides a mechanism for SOF user combat evaluation of emerging sensor technologies. SAFC applies focused Research & Development (R&D) for relatively low cost solutions to provide remotely controlled system emplacement and data exfiltration from denied areas. This program also specifically addresses short lead-time contingency planning requirements where focused R&D will allow for test and evaluation of leading edge solutions to an emergent problem set based on requirements validated through a specific Joint Staff/Office of the Secretary of Defense (OSD) chartered approval process.

B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	26.254	16.381	0.000	0.000	0.000
Current President's Budget	23.020	27.467	16.272	0.000	16.272
Total Adjustments	-3.234	11.086	16.272	0.000	16.272
• Congressional General Reductions		-0.114			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		11.200			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-2.634	0.000			
• SBIR/STTR Transfer	-0.600	0.000			
• Other Adjustment	0.000	0.000	16.272	0.000	16.272

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

Project: 9999: *Special Applications for Contingencies (SAFC)/9999*

Congressional Add: *Congressional Add: Comprehensive Maritime Domain Awareness*

FY 2009	FY 2010
4.488	3.187

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<u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u>	FY 2009	FY 2010
Congressional Add: <i>Congressional Add: SAFC Advanced Technology Sensors and Payloads</i>	1.596	4.780
Congressional Add: <i>Congressional Add: SAFC Expeditionary Persistent Power</i>	1.596	0.000
Congressional Add: <i>Congressional Add: SAFC Unmanned Aerial Systems Test Facility</i>	2.394	2.390
Congressional Add: <i>Congressional Add: GMTI Radar for Class II UAVs</i>	0.000	0.797
Congressional Add Subtotals for Project: 9999	10.074	11.154
Congressional Add Totals for all Projects	10.074	11.154

Change Summary Explanation

Funding:

FY09: Decrease of -\$3.234 million is due to Small Business Innovative Research transfer (-\$0.600 million) and FY09 Omnibus reprogramming FY09-26PA (-\$2.634 million).

FY10: Increase of \$11.200M for the following Congressional Adds: Advanced Technologies Sensors and Payloads/Unattended SIGINT Node \$4.800 million; Comprehensive Maritime Domain Awareness \$3.200 million; GMTI Radar for Class II UAVs \$0.800 million; UAV/UAS Test Facility \$2.400 million. Decrease of -\$0.114 million is due to Section 8097 Congressional general reductions.

FY11: Increase of \$16.272 million is due to the DoD not estimating FY 2011 cost when the FY 2010 President's Budget was prepared.

Schedule: None.

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2011 United States Special Operations Command									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0304210BB: <i>Applications for Contingencies (SAFC)/9999</i>				PROJECT 9999: <i>Special Applications for Contingencies (SAFC)/9999</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
9999: <i>Special Applications for Contingencies (SAFC)/9999</i>	23.020	27.467	16.272	0.000	16.272	16.574	16.886	17.170	17.459	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
<p>The Special Applications for Contingencies (SAFC) project develops and deploys special capabilities to perform intelligence surveillance and reconnaissance (ISR) for deployed Special Operations Forces (SOF) using non-traditional means. It provides a mechanism for SOF user combat evaluation of emerging sensor technologies. SAFC applies focused Research and Development for relatively low cost solutions to provide remotely controlled system emplacement and data exfiltration from denied areas. This program also specifically addresses short lead-time contingency planning requirements where focused Research and Development will allow for test and evaluation of leading edge solutions to an emergent problem set based on requirements validated through a specific Joint Staff/OSD chartered approval process.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
SAFC - Contingencies							3.027	8.157	16.272	0.000	16.272
<p><i>FY 2009 Accomplishments:</i> FY09 Continued development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continued to evaluate counter-canopy technologies, persistent stare and quick reaction systems.</p> <p><i>FY 2010 Plans:</i> FY10 Continue development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continues to evaluate unique sensor technologies, persistent stare and quick reaction systems.</p>											

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Exhibit R-2A, RDT&E Project Justification: PB 2011 United States Special Operations Command		DATE: February 2010
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B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
Congressional Add: Congressional Add: Comprehensive Maritime Domain Awareness <i>FY 2009 Accomplishments:</i> FY09 Continued establishment of a national center for maritime and port security to develop a maritime domain awareness prototype system. <i>FY 2010 Plans:</i> FY10 Continues development of a maritime domain awareness prototype system.	4.488	3.187
Congressional Add: Congressional Add: SAFC Advanced Technology Sensors and Payloads <i>FY 2009 Accomplishments:</i> FY09 Developed a suite of new communications, control, and data exploitation capabilities for use with small and tactical unmanned aerial system. <i>FY 2010 Plans:</i> FY10 Develops an affordable, miniature wide band, SIGINT/COMINT payload for employment on small and mid-size UAS platforms and in ground sensors.	1.596	4.780
Congressional Add: Congressional Add: SAFC Expeditionary Persistent Power <i>FY 2009 Accomplishments:</i> FY09 Developed alternative power and propulsion systems for SOF equipment.	1.596	0.000
Congressional Add: Congressional Add: SAFC Unmanned Aerial Systems Test Facility	2.394	2.390

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Exhibit R-2A, RDT&E Project Justification: PB 2011 United States Special Operations Command **DATE:** February 2010

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

	FY 2009	FY 2010
<p><i>FY 2009 Accomplishments:</i> FY09 Developed a test/training range within approved airspace to test, evaluate, and certify sensor payloads and platforms.</p> <p><i>FY 2010 Plans:</i> FY10 Continues to develop a test/training range within approved airspace to test, evaluate, and certify sensor systems.</p>		
<p>Congressional Add: Congressional Add: GMTI Radar for Class II UAVs</p> <p><i>FY 2010 Plans:</i> FY10 Develops ground moving target indicator (GMTI) sensor capabilities for deployment on smaller unmanned aerial vehicle platforms by miniaturizing the GMTI system.</p>	0.000	0.797
Congressional Adds Subtotals	10.074	11.154

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</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>
• PROC:: SAFC	12.447									Continuing	Continuing
• PROC1:: STUASLO		12.185	12.148		12.148	12.470	12.808	13.025	13.246	Continuing	Continuing

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 United States Special Operations Command **DATE:** February 2010

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Product Development (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Intelligence Surveillance and Reconnaissance Sensor and Networking Development	MIPR	VARIOUS VARIOUS	37.339	8.157	Jul 2010	16.272	Apr 2011	0.000		16.272	Continuing	Continuing	Continuing
Near Real Time Contingencies	MIPR	VARIOUS VARIOUS	18.186	8.156	Aug 2010	0.000		0.000		0.000	0.000	26.342	Continuing
Sensor Platform Capability Development	MIPR	VARIOUS VARIOUS	53.519	0.000		0.000		0.000		0.000	0.000	53.519	Continuing
Comprehensive Port and Maritime Domain Awareness	MIPR	NAVAIR NAVAIR	16.246	3.187	Jun 2010	0.000		0.000		0.000	0.000	19.433	Continuing
Advance Technology Sensors & Payloads	MIPR	NAVAIR NAVAIR	1.596	4.780	Jun 2010	0.000		0.000		0.000	0.000	6.376	Continuing
GMTI Radar for Class II UAS	MIPR	NAVAIR NAVAIR	0.000	0.797	Jun 2010	0.000		0.000		0.000	0.000	0.797	Continuing
Expeditionary Persistent Power	MIPR	NAVAIR NAVAIR	1.596	0.000		0.000		0.000		0.000	0.000	1.596	Continuing
Subtotal			128.482	25.077		16.272		0.000		16.272	0.000	108.063	

Remarks

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 United States Special Operations Command **DATE:** February 2010

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Test and Evaluation (\$ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total		Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date			
UAS Test Facility Upgrade	MIPR	SPAWAR SPAWAR	2.394	2.390	Jun 2010	0.000		0.000		0.000		0.000	4.784	Continuing
Subtotal			2.394	2.390		0.000		0.000		0.000		0.000	4.784	

Remarks

Project Cost Totals	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
		Cost	Award Date	Cost	Award Date	Cost	Award Date				
Project Cost Totals	130.876	27.467		16.272		0.000		16.272	0.000	112.847	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 United States Special Operations Command		DATE: February 2010
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Exhibit R-4, RDT&E Program Schedule Profile																									Date: FEBRUARY 2010							
Appropriation/Budget Activity					Program Element Number and Name										Project Number and Name																	
RDT&E/7					PE0304210BB/Special Applications for Contingencies										Project 9999/Special Applications for Contingencies																	
Fiscal Year	2009				2010				2011				2012				2013				2014				2015							
	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				
Intelligence Surveillance and Reconnaissance (ISR) Capabilities Development	▲																															△
ISR Technology Integration & Testing	▲																															△
ISR Prototype Demonstrations	▲																															△
ISR Combat Evaluation	▲																															△
Comprehensive Maritime Domain (Cong Add)	▲																															△
Advanced Technology Sensors and Payloads (Cong Add)	▲																															△
Expeditionary Persistent Power (Cong Add)	▲			▲																												
Unmanned Aerial Systems Test Facility Upgrade (Cong Add)	▲											△																				
GMTI Radar for Class II UAS (Cong Add)								▲				△																				

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 United States Special Operations Command		DATE: February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Intelligence Surveillance and Reconnaissance (ISR) Capabilities Development	1	2009	4	2015
ISR Technology Integration & Testing	1	2009	4	2015
ISR Prototype Demonstrations	1	2009	4	2015
ISR Combat Evaluation	1	2009	4	2015
Comprehensive Maritime Domain Awareness	1	2009	4	2010
Advanced Technology Sensors and Payloads	1	2009	4	2010
Expeditionary Persistent Power	1	2009	4	2009
Unmanned Aerial Systems Test Facility Upgrade	1	2009	4	2010
GMTI Radar for Class II UAS	1	2010	4	2010

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