

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)					DATE MAY 2009					
APPROPRIATION / BUDGET ACTIVITY RDT&E, DEFENSE-WIDE / 7			R-1 ITEM NOMENCLATURE / PROJECT NO. PE 0304210BB Special Applications for Contingencies (SAFC)/9999							

COST (Dollars in Millions)	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	Cost to Complete	Total Cost
PE0304210BB	21.245	26.254	16.381						Cont.	Cont.
9999.PR SAFC	21.245	26.254	16.381						Cont.	Cont.

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 technologies capable of detecting and locating fleeting targets. 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:

	FY08	FY09	FY10
Previous President's Budget	16.844	16.225	16.609
Current President's Budget	21.245	26.254	16.381
Total Adjustments	4.401	10.029	-0.228
Congressional Program Reductions		-0.071	
Congressional Increases	4.500	10.100	
Reprogrammings			
Other Program Adjustments			-0.228
SBIR Transfer	-0.099		

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<p>Funding:</p> <p>FY08: Net increase of \$4.401 million is due to a Congressional add for Comprehensive Port and Maritime Domain Awareness (\$4.500 million) and an adjustment for the Small Business Innovative Research account (-\$0.099 million).</p> <p>FY09: Net increase of \$10.029 million is a due to Section 8101 (-\$0.071 million) and (\$10.100 million) for the following Congressional adds: Comprehensive Port and Maritime Domain Awareness (\$4.500 million) Unmanned Aerial Systems Test Facility Upgrade (\$2.400 million) Advanced Technology Sensors and Payloads (\$1.600 million) Expeditionary Persistent Power (\$1.600 million)</p> <p>FY10: Decrease of -\$0.228 million is due to economic assumptions.</p> <p>Schedule: None.</p> <p>Technical: None.</p>		

Exhibit R-2a, RDT&E Project Justification		Date: MAY 2009
Appropriation/Budget Activity RDT&E BA #7	Special Applications for Contingencies/Project 9999	

Cost (\$ in millions)	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Special Applications for Contingencies	21.245	26.254	16.381					
RDT&E Articles Quantity								

A. Mission Description and Budget Item Justification: 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 technologies capable of detecting and locating fleeting targets. SAFC applies focused 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/OSD chartered approval process.

B. Accomplishments/Planned Program. Developed and fielded significant improvements to ISR sensor systems supporting U.S. and Coalition SOF in the U.S. Central Command theater. Developed improvements to long range ground surveillance capabilities and continued development and integration of a networked ISR sensor system.

	FY08	FY09	FY10	FY11
SAFC - Contingencies	3.573	4.102	8.191	
DT&E Articles Quantity				

FY08 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 develop and evaluate counter-canopy technologies, persistent stare and quick reaction systems.

FY09 Continue development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continue to evaluate counter-canopy technologies, persistent stare and quick reaction systems.

FY10 Continues 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.

Exhibit R-2a, RDT&E Project Justification		Date: MAY 2009		
Appropriation/Budget Activity RDT&E BA # 7		Special Applications for Contingencies/Project 9999		

	FY08	FY09	FY10	FY11
SAFC – Sensors	4.358	4.346	8.190	
RDT&E Articles Quantity				

FY08 Continued research and assessment of emerging ISR technologies for maritime, land and air domains. Continued research and development of advanced mobile secure networking and detection technologies to create or enhance deployed, remotely emplaced surveillance architectures. Continued development and evaluation of unique unmanned sensor systems.

FY09 Continue research and assessment of emerging ISR technologies for maritime, land and air domains. Continue research and development of advanced mobile secure networking and detection technologies to create or enhance deployed, remotely emplaced surveillance architectures. Continue development and evaluation of unique unmanned sensor systems.

FY10 Continues research and assessment of emerging ISR technologies for maritime, land and air domains. Continues research and development of advanced mobile secure networking and detection technologies to create or enhance deployed, remotely emplaced surveillance architectures. Continues development and evaluation of unique unmanned sensor systems.

	FY08	FY09	FY10	FY11
SAFC – Sensor Platform Systems	7.266	7.984		
RDT&E Articles Quantity				

FY08 Continued to research, develop and evaluate emerging advances in ISR sensor platform capabilities. Continued to assess and improve persistence and acoustic profile. Continued to enhance and evaluate communication architectures including link performance and interoperability. Continued to develop, deploy and evaluate advanced sensor control technologies.

FY09 Continue to research, develop and evaluate emerging advances in ISR sensor platform capabilities. Continue to assess and improve persistence and acoustic profile. Continue to enhance and evaluate communication architectures including link performance and interoperability. Continue to develop, deploy and evaluate advanced sensor control technologies.

	FY08	FY09	FY10	FY11
Mobile Optical Wireless Networking for Intel, Surveillance and Recon	1.548			
RDT&E Articles Quantity				

FY08 This was a congressional add. Applied optical wireless technology to develop an extremely high speed, secure Unmanned Aerial System (UAS) data link.

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Appropriation/Budget Activity RDT&E BA # 7	Special Applications for Contingencies/Project 9999	

	FY08	FY09	FY10	FY11
Comprehensive Port and Maritime Domain Awareness	4.500	4.376		
RDT&E Articles Quantity				
<p>FY08 This was a congressional add. Continued establishment of a national center for maritime and port security to develop a maritime domain awareness (MDA) prototype system. The MDA system will link surveillance systems, maritime sensors, data fusion capabilities, biometrics, and updated analysis and display of fused and network information for mission planning and coalition force protection.</p> <p>FY09 This is a congressional add. Continue establishment of a national center for maritime and port security to develop an MDA prototype system.</p>				
	FY08	FY09	FY10	FY11
SAFC Advanced Technology Sensors and Payloads		1.556		
RDT&E Articles Quantity				
<p>FY09 This is a congressional add. Develop a suite of new communications, control, and data exploitation capabilities for use with small and tactical UAS.</p>				
	FY08	FY09	FY10	FY11
SAFC Expeditionary Persistent Power		1.556		
RDT&E Articles Quantity				
<p>FY09 This is a congressional add. Develop ground based power and alternative propulsion systems for SOF equipment, including ultra-thin solar and small wind-driven regeneration systems.</p>				
	FY08	FY09	FY10	FY11
SAFC Unmanned Aerial Systems Test Facility Upgrade		2.334		
RDT&E Articles Quantity				
<p>FY09 This is a congressional add. Develop a test/training range within approved airspace to test, evaluate, and certify sensor payloads and platforms.</p>				

Exhibit R-2a, RDT&E Project Justification

Date: MAY 2009

Appropriation/Budget Activity
RDT&E BA #7

Special Applications for Contingencies/Project 9999

C. Other Program Funding Summary:

	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>	<u>FY14</u>	<u>FY15</u>	To <u>Complete</u>	Total <u>Cost</u>
PROC, SAFC	11.966	12.447							Cont.	Cont.
Small (Level 0) Tactical UAS			12.223						Cont.	Cont.

D. Acquisition Strategy:

SAFC acquisition strategy is evolutionary and spiral-based for technology insertion and low volume procurement. As a non-standard DOD acquisition program, it allows for maximum flexibility to respond to quickly emerging, short lead time, contingency based requirements that have been approved through an Executive Integrated Product Team chaired by the Joint Staff at national level.

APPROPRIATION / BUDGET ACTIVITY			SPECIAL APPLICATIONS FOR CONTINGENCIES PE0304210BB								
RDT&E DEFENSE-WIDE / 7											
Actual or Budget Value (\$ in millions)											
Cost Categories	Contract		Total	Budget	Award	Budget	Award	Budget	Award		
(Tailor to WBS, or System/Item Requirements)	Method & Type	Performing Activity & Location	PYs Cost	Cost FY09	Date FY09	Cost FY10	Date FY10	Cost FY11	Date FY11	To Complete	Total Program
Product Development											
Sensor Platform Capability Development	MIPR	NAVAIR	47.068	7.984	Dec-08					Cont.	Cont.
Intelligence Surveillance and Reconnaissance Sensor and Networking Development	MIPR	Various	34.312	4.346	Dec-08	8.191	Dec-09			Cont.	Cont.
Near Real Time Contingency	MIPR	Various	14.718	4.102	Various	8.190	Various			Cont.	Cont.
Comprehensive Port and Maritime Domain	MIPR	NAVAIR	11.758	4.376	Apr-09						16.134
Advance Technology Sensors & Payloads				1.556	Apr-09						1.556
Expeditionary Persistent Power				1.556	Apr-09						1.556
Subtotal Product Development			107.856	23.920		16.381				Cont.	Cont.
Remarks:											
Support Development											
Subtotal Support Development											
Remarks:											
Test and Evaluation											
UAS Test Facility Upgrade				2.334	Apr-09						
Subtotal Test and Evaluation				2.334							
Remarks:											
Management Services											
Subtotal Management Services											
Remarks:											
Prior Years			25.053								
Total Cost			132.909	26.254		16.381				Cont.	Cont.
Remarks:											

