

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)					DATE FEBRUARY 2008				
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)	FY07	FY08	FY09	FY10	FY11	FY12	FY13	Cost to Complete	Total Cost
PE0304210BB	20.075	16.844	16.225	16.609	16.647	17.018	17.392	Cont.	Cont.
9999.PR SAFC	20.075	16.844	16.225	16.609	16.647	17.018	17.392	Cont.	Cont.

A. Mission Description and Budget Item Justification: The SAFC Program 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 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:

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>
Previous President's Budget	20.074	15.687	16.247
Current President's Budget	20.075	16.844	16.225
Total Adjustments	0.001	1.157	-0.022
Congressional Program Reductions			
Congressional Increases	0.001	1.600	
Reprogrammings			
Other Program Adjustments		-0.11	-0.022
SBIR Transfer		-0.333	

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<p>Funding:</p> <p>FY07: Net increase (-\$0.001 million) is the result of a Congressional add (\$7.258 million) for Comprehensive Port and Maritime Domain Awareness and a Congressional mark (-\$7.257 million).</p> <p>FY08: Net increase (\$1.157 million) is a result of Congressional reductions Section 8097 (-\$0.028 million) and Section 8104 (-\$0.082 million), and Congressional add Mobile Optical Wireless Networking for Intelligence, Surveillance, and Reconnaissance (\$1.600 million). Other program adjustments include transfer to Small Business Innovative Research account (-\$0.333 million).</p> <p>FY09: Net Decrease (-\$0.022 million) is due to economic inflation adjustments.</p> <p>Schedule: None.</p> <p>Technical: None.</p>		

Exhibit R-2a, RDT&E Project Justification

Date: FEBRUARY 2008

Appropriation/Budget Activity
RDT&E BA # 7

Special Applications for Contingencies/Project 9999

Cost (\$ in millions)	FY07	FY08	FY09	FY10	FY11	FY12	FY13
Special Applications for Contingencies	20.075	16.844	16.225	16.609	16.647	17.018	17.392
RDT&E Articles Quantity							

A. Mission Description and Budget Item Justification: The Special Applications for Contingencies (SAFC) Program 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 expendable Unmanned Aircraft Systems (UAS) 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.

	FY07	FY08	FY09
SAFC - Contingencies	12.817	3.594	4.218
DT&E Articles Quantity			

FY07 Continued development and combat evaluation of selected unmanned delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continued to develop counter-canopy technologies, persistent stare and quick reaction systems.

FY08 Continue development and combat evaluation of selected unmanned delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short notice requirements. Continue to develop and evaluate counter-canopy technologies, persistent stare and quick reaction systems.

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

Exhibit R-2a, RDT&E Project Justification		Date: FEBRUARY 2008	
Appropriation/Budget Activity RDT&E BA # 7		Special Applications for Contingencies/Project 9999	

	FY07	FY08	FY09
SAFC – Sensors		3.594	4.218
RDT&E Articles Quantity			
<p>FY08 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. Continues development and evaluation of unique unmanned sensor systems.</p> <p>FY09 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.</p>			
	FY07	FY08	FY09
SAFC – Unmanned Aircraft Systems		7.309	7.538
RDT&E Articles Quantity			
<p>FY08 Continue to research, develop and evaluate emerging advances in fixed and rotary wing UAS capabilities. Continue to assess and improve UAS endurance and acoustic profile. Continue to enhance and evaluate common ground station capabilities including link performance and interoperability. Continue to develop, deploy and evaluate advanced auto-pilot technologies.</p> <p>FY09 Continues to research, develop and evaluate emerging advances in fixed and rotary wing UAS capabilities. Continues to assess and improve UAS endurance and acoustic profile. Continues to enhance and evaluate common ground station capabilities including link performance and interoperability. Continues to develop, deploy and evaluate advanced auto-pilot technologies.</p>			
	FY07	FY08	FY09
Comprehensive Port and Maritime Domain Awareness	7.258		
RDT&E Articles Quantity			
<p>FY07 Congressional add established a national center for maritime and port security to develop a maritime domain awareness (MDA) prototype system. The MDA system will link surveillance sensors, maritime sensors, data fusion capabilities, biometrics, and automated analysis and display of fused and network information for mission planning and coalition force protection.</p>			
	FY07	FY08	FY09
Mobile Optical Wireless Networking for Intel, Surveillance, and Recon		1.558	
RDT&E Articles Quantity			
<p>FY08 Congressional add to develop and demonstrate the aerial component of a high speed mobile optical wireless communications link</p>			

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Special Applications for Contingencies/Project 9999

designed to transmit sensor data with a low probability of intercept/detection.

C. Other Program Funding Summary:

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>	<u>To Complete</u>	<u>Total Cost</u>
Proc, SAFC	9.569	11.966	12.484	12.419	12.445	12.819	13.204	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.

Exhibit R-3 RDT&E Project Cost Analysis						DATE: FEBRUARY 2008					
APPROPRIATION / BUDGET ACTIVITY RDT&E DEFENSE-WIDE / 7				SPECIAL APPLICATIONS FOR CONTINGENCIES PE0304210BB							
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 FY07	Date FY07	Cost FY08	Date FY08	Cost FY09	Date FY09	To Complete	Total Program
UAV Capability Development	MIPR	NAVAIR	32.716	7.043	Aug-07	7.309	Jan-08	7.538	Dec-08	Cont.	Cont.
Com Port & Maritime Domain Awareness	MIPR	NAVAIR		7.258	Aug-07						7.258
ISR Sensor and Networking Development	MIPR	Various	37.187			4.383	Jan-08	4.469	Dec-08	Cont.	Cont.
TT&L R&D	MIPR	Various	4.491								4.491
Portable Radar	MIPR	DOE	2.500								2.500
FFRDC Support to SOJICC	MIPR	MITRE CECOM	1.001								1.001
FFRDC Support to SOJICC	MIPR	MITRE ESC	0.330								0.330
Technical Collection R&D	MIPR	ASD C3I	3.252								3.252
Special Comms Devices	MIPR	SAF FMB	1.000								1.000
Biometrics	MIPR	SAF FMB	0.500								0.500
NRT Contingency	MIPR	Various	6.779	4.233	Various	3.594	Various	4.218	Various	Cont.	Cont.
CP - Tactical Imagery Comm	MIPR	NAVSEA, Arlington VA	1.632								1.632
Subtotal Product Dev			91.388	18.534		15.286		16.225		Cont.	Cont.
Remarks:											
Subtotal Spt				0.000							0.000
Remarks:											
Extended User Evaluation	MIPR	NAVSEA, Arlington VA		1.300	Jul-07						1.300
Subtotal T&E				1.300							1.300
Remarks:											
Program Support	C-CPAF	Jacobs-Sverdrup, Tampa FL		0.241	Dec-06						0.241
Mobile Optical Wireless ISR Network	TBD	TBD				1.558	Various				1.558
Subtotal Management				0.241		1.558					1.799
Remarks:											
Total Cost			91.388	20.075		16.844		16.225		Cont.	Cont.
Remarks:											

