

UNCLASSIFIED

PE NUMBER: 0408011F
 PE TITLE: SPECIAL TACTICS/COMBAT CONTROL

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0408011F SPECIAL TACTICS/COMBAT CONTROL
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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	1.962	8.074	5.728	8.363	7.546	7.691	7.849	Continuing	TBD
5138 ST System Development	1.962	8.074	5.728	8.363	7.546	7.691	7.849	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

Battlefield Air Operations (BAO) Kit is a program within the overarching Battlefield Airmen Modernization (BA-Mod) Program. BAO Kit will develop a Family of Systems (FoS) that provides a state-of-the-art Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) suite for AFSOC's Battlefield Airmen. BAO Kit will enhance the three core capabilities of Line of Sight (LOS) targeting, Beyond Line of Sight (BLOS) targeting, and Battlefield Air Operations Human Machine Interface (BAO HMI) while reducing the risk of fratricide and substantially reducing the weight carried. This program will develop and enhance technologies for Battlefield Airmen Combat Controllers (CCT) to recognize, identify, range, nominate and designate targets during both day and night. BAO Kit will also significantly reduce the time required to find, fix, track, target and engage the enemy by providing highly accurate target grid coordinates in three dimensions, generating target imagery both pre and post-strike, and transmitting target data to Command and Control centers. All BAO Kit systems are light, compact and portable for use by dismounted Battlefield Airmen. The significant improvements in operational capability, coupled with dramatic weight reduction, will provide increased mission effectiveness across the conflict spectrum.

This program is in Budget Activity 7, Operational System Development, since it improves the already fielded capabilities of the Battlefield Airmen Combat Control Teams by demonstrating technology, component and subsystem maturity.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	2.013	5.225	5.776
(U) Current PBR/President's Budget	1.962	8.074	5.728
(U) Total Adjustments	-0.051		
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.051		
(U) <u>Significant Program Changes:</u>			

Exhibit R-2a, RDT&E Project Justification

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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5138 ST System Development	1.962	8.074	5.728	8.363	7.546	7.691	7.849	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

Battlefield Air Operations (BAO) Kit is a program within the overarching Battlefield Airmen Modernization (BA-Mod) Program. BAO Kit will develop a Family of Systems (FoS) that provides a state-of-the-art Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) suite for AFSOC's Battlefield Airmen. BAO Kit will enhance the three core capabilities of Line of Sight (LOS) targeting, Beyond Line of Sight (BLOS) targeting, and Battlefield Air Operations Human Machine Interface (BAO HMI) while reducing the risk of fratricide and substantially reducing the weight carried. This program will develop and enhance technologies for Battlefield Airmen Combat Controllers (CCT) to recognize, identify, range, nominate and designate targets during both day and night. BAO Kit will also significantly reduce the time required to find, fix, track, target and engage the enemy by providing highly accurate target grid coordinates in three dimensions, generating target imagery both pre and post-strike, and transmitting target data to Command and Control centers. All BAO Kit systems are light, compact and portable for use by dismounted Battlefield Airmen. The significant improvements in operational capability, coupled with dramatic weight reduction, will provide increased mission effectiveness across the conflict spectrum.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue BAO Kit system and equipment development	0.842	3.900	4.660
(U) Continue BAO Kit software development (rolled into BAO Kit system and equipment development in FY08 and 09)	0.942	3.349	0.452
(U) Continue system test and evaluation efforts	0.095	0.725	0.516
(U) Continue program office operations effort	0.083	0.100	0.100
(U) Total Cost	1.962	8.074	5.728

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

	<u>FY 2007</u>	<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>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) Tactical C-E Equipment Other Procurement, AF PE 0408011F	4.176	6.197	10.050	13.305	14.952	15.296	15.635	Continuing	TBD

(U) **D. Acquisition Strategy**

The evolutionary acquisition strategy will focus on meeting immediate requirements with current technology while pursuing future increments for improved accuracy, increased vertical and horizontal integration, and reduced weight. Future spirals will be incorporated as funding and technology allow.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
07 Operational System Development				0408011F SPECIAL TACTICS/COMBAT CONTROL				5138 ST System Development				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2007 Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>												
Human Machine Interface (HMI)	C/Various	Various Systems		0.351	Jul-07	6.149	Jun-08	4.152	Jun-09	Continuing	TBD	
Machine-To-Machine C4ISR System	C/CPFF	Research & Applications Corp, Dayton, Ohio		0.942	Dec-06					Continuing	TBD	TBD
Beyond Line of Sight Targeting System	C/CPFF	Aerovironment, Monrovia, CA		0.491	Jan-07	0.600	Jun-08	0.460	Jun-09	Continuing	TBD	
Subtotal Product Development			0.000	1.784		6.749		4.612		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>												
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Test Agency Support	MIPR	46TS, Eglin AFB, FL		0.095	Dec-06	0.132	Dec-07				0.227	
Integration and Certification	Various	Various		0.000		0.600	Dec-07	0.516	Dec-08	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.095		0.732		0.516		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												
Program Office Support	Various	Various		0.083	Oct-06	0.593	Oct-07	0.600	Oct-08	Continuing	TBD	TBD
Subtotal Management			0.000	0.083		0.593		0.600		Continuing	TBD	TBD
Remarks:												
(U)												
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	1.962		8.074		5.728		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0408011F SPECIAL
TACTICS/COMBAT CONTROL

PROJECT NUMBER AND TITLE
5138 ST System Development

BAO Kit Program Schedules

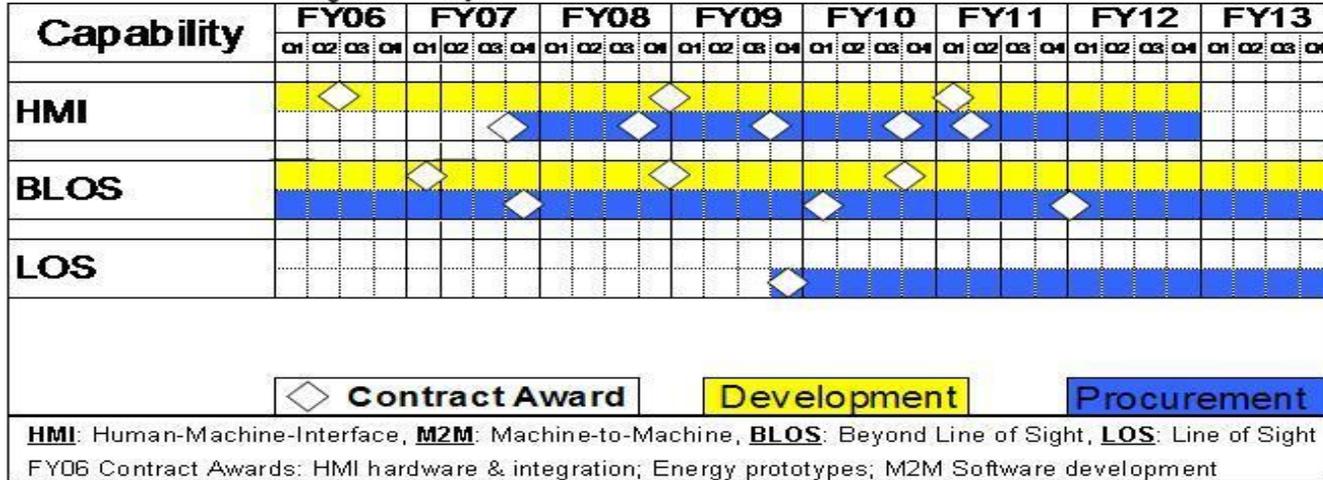


Exhibit R-4a, RDT&E Schedule Detail

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(U) <u>Schedule Profile</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) HMI Research & Development	1-4Q	1-4Q	1-4Q
(U) Beyond LOS Development		1Q	
(U) HMI TAC Ear		2Q	
(U) HMI Headmounted Display		4Q	
(U) Line of Sight Development		4Q	
(U) HMI Power Generation and Management			1Q