

UNCLASSIFIED

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

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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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 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
Total Program Element (PE) Cost	7.868	7.707	8.222	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5138 ST System Development	7.868	7.707	8.222	0.000	0.000	0.000	0.000	0.000	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, BAO Kit Increment II, will build upon the HMI and BLOS effort and deliver enhanced capability for the dismounted soldier in terms of dramatic weight reduction, and 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 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	8.074	5.776	8.363
(U) Current PBR/President's Budget	7.868	7.707	8.222
(U) Total Adjustments	-0.206	1.931	
(U) Congressional Program Reductions		-0.021	
Congressional Rescissions			
Congressional Increases		1.952	
Reprogrammings			
SBIR/STTR Transfer	-0.206		
(U) <u>Significant Program Changes:</u>			

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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
5138 ST System Development	7.868	7.707	8.222	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	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, BAO Kit Increment II, will build upon the HMI and BLOS effort and deliver enhanced capability for the dismounted soldier in terms of dramatic weight reduction, and increased mission effectiveness across the conflict spectrum.

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Continue BAO Kit system and equipment development	3.900	4.560	7.297
(U) Continue BAO Kit software development (rolled into BAO Kit system and equipment development in FY08 and 09)	3.349	2.431	0.474
(U) Continue system test and evaluation efforts	0.519	0.516	0.231
(U) Continue program office operations effort	0.100	0.200	0.220
(U) Total Cost	7.868	7.707	8.222

(U) 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</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Tactical C-E Equipment Other Procurement, AF PE 0408011F	6.228	12.484	9.565	0.000	0.000	0.000	0.000	0.000	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,

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increased vertical and horizontal integration, and reduced weight. Future increments will be incorporated as funding and technology allow.

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Exhibit R-3, RDT&E Project Cost Analysis

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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 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>												
Human Machine Interface (HMI)	C/Various	Various	6.149	3.300	Jun-08	4.750	Jun-09	7.297	Apr-10	Continuing	TBD	TBD
Line of Sight						0.050					0.050	
Machine-To-Machine C4ISR System	C/CPFF	Systems Research & Applications Corp, Dayton, Ohio						0.474	Dec-09	Continuing	TBD	TBD
Beyond Line of Sight Targeting System	C/CPFF	Various	0.600	3.243	Jun-08	2.470	Jun-09	0.000		Continuing	TBD	TBD
Subtotal Product Development			6.749	6.543		7.270		7.771		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	0.132	0.125				0.231	Jan-10		0.488	
Integration and Certification	Various	Various	0.600	0.600		0.437	Dec-08			Continuing	TBD	TBD
Subtotal Test & Evaluation			0.732	0.725		0.437		0.231		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												
Program Office Support	Various	Various	0.593	0.600				0.220	Nov-09	Continuing	TBD	TBD
Subtotal Management			0.593	0.600		0.000		0.220		Continuing	TBD	TBD
Remarks:												
(U)												
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			8.074	7.868		7.707		8.222		Continuing	TBD	TBD

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Exhibit R-3 (PE 0408011F)

Exhibit R-4, RDT&E Schedule Profile

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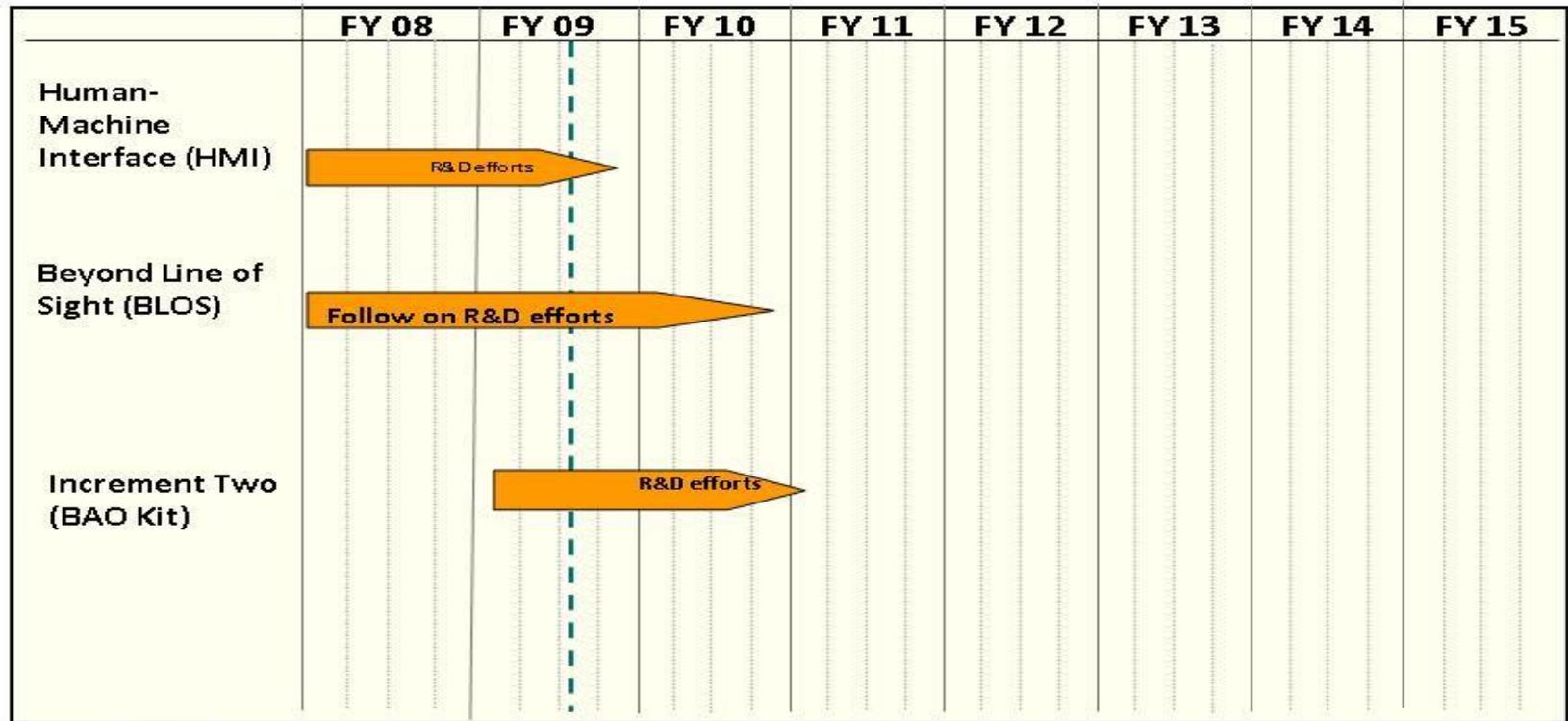
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BAO Kit Schedule



 R&D

Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) HMI Research & Development

1-4Q

1-4Q

(U) Beyond LOS Development

1-4Q

1-4Q

1-4Q

(U) Increment II

1-4Q

1-4Q