

## UNCLASSIFIED

PE NUMBER: 0408011F

PE TITLE: SPECIAL TACTICS/COMBAT CONTROL

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2005

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0408011F SPECIAL TACTICS/COMBAT CONTROL

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	1.058	2.156	1.019	5.091	5.617	8.196	7.406	Continuing	TBD
5138 ST System Development	0.000	1.058	2.156	1.019	5.091	5.617	8.196	7.406	Continuing	TBD

In FY05, this is a new PE.

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

This program will develop specified technologies that provide Combat Control operators with the capability to see, range, and designate a target at distances from 20 meters out to 10,000 meters, day or night. It also possesses the means to develop highly accurate target grid coordinates in three dimensions and then image a target, both pre and post-strike, and transmit the picture to C2 centers. The current set of equipment is too unwieldy, heavy, and includes a human error factor. Combat Controllers operate dismounted at altitudes of up to 10,000 feet with approximately 150 pounds of equipment. They calculate coordinates with pencil and paper and then transmit data to the aircraft via voice over the radio. Current targeting equipment is limited in range, to line of sight, and information management. Functionality is required for current and future War on Terrorism operations by supporting air-dropped precision attack weapons, the capture of target data from stand-off distances of up to 10 kilometers, and provides aircrew digital information that is needed to quickly, effectively and accurately deliver weapons on time, on target.

This program is in Budget Activity 4, Advanced Component Development & Prototypes (ACD&P) because the efforts demonstrates technology, component and subsystem maturity, and provides risk reduction.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	0.000	1.058	2.156	1.019
(U) Current PBR/President's Budget	0.000	1.058	2.156	1.019
(U) Total Adjustments	0.000	0.000		
(U) Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				
(U) <u>Significant Program Changes:</u>				

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## Exhibit R-2a, RDT&amp;E Project Justification

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TACTICS/COMBAT CONTROL

## PROJECT NUMBER AND TITLE

5138 ST System Development

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5138 ST System Development	0.000	1.058	2.156	1.019	5.091	5.617	8.196	7.406	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

This program will develop specified technologies that provide Combat Control operators with the capability to see, range, and designate a target at distances from 20 meters out to 10,000 meters, day or night. It also possesses the means to develop highly accurate target grid coordinates in three dimensions and then image a target, both pre and post-strike, and transmit the picture to C2 centers. The current set of equipment is too unwieldy, heavy, and includes a human error factor. Combat Controllers operate dismounted at altitudes of up to 10,000 feet with approximately 150 pounds of equipment. They calculate coordinates with pencil and paper and then transmit data to the aircraft via voice over the radio. Current targeting equipment is limited in range, to line of sight, and information management. Functionality is required for current and future War on Terrorism operations by supporting air-dropped precision attack weapons, the capture of target data from stand-off distances of up to 10 kilometers, and provides aircrew digital information that is needed to quickly, effectively and accurately deliver weapons on time, on target.

This program is in Budget Activity 4, Advanced Component Development & Prototypes (ACD&P) because the efforts demonstrates technology, component and subsystem maturity, and provides risk reduction.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) System and equipment development.		0.858	1.612	0.850
(U) System test and evaluation.		0.200	0.544	0.169
(U) Total Cost	0.000	1.058	2.156	1.019

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</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>Estimate</u>	<u>Complete</u>	
(U) Not Applicable										

(U) **D. Acquisition Strategy**

The spiral development acquisition strategy will focus on meeting immediate requirements with current technology while pursuing future spirals for improved accuracy, increased vertical and horizontal integration, and reduced weight.

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Exhibit R-3, RDT&E Project Cost Analysis												DATE February 2005		
BUDGET ACTIVITY 07 Operational System Development						PE NUMBER AND TITLE 0408011F SPECIAL TACTICS/COMBAT CONTROL						PROJECT NUMBER AND TITLE 5138 ST System Development		
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &amp;</u> <u>Type</u>	<u>Performing</u> <u>Activity &amp;</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2004</u> <u>Cost</u>	<u>FY 2004</u> <u>Cost</u>	<u>FY 2004</u> <u>Award</u> <u>Date</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target</u> <u>Value of</u> <u>Contract</u>
(U) <u>Product Development</u>														
Various	TBD	TBD		0.000		0.858	Aug-05	1.612	Aug-06	0.850	Aug-07	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.858		1.612		0.850		Continuing	TBD	TBD
Remarks:														
(U) <u>Support</u>														
Subtotal Support			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) <u>Test &amp; Evaluation</u>														
Various	TBD	TBD		0.000		0.200	Aug-05	0.544	Aug-06	0.169	Aug-07	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.000		0.200		0.544		0.169		Continuing	TBD	TBD
Remarks:														
(U) <u>Management</u>														
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) Total Cost			0.000	0.000		1.058		2.156		1.019		Continuing	TBD	TBD
In FY04 the first Spiral for BRITES was previously funded and listed under BPAC 6622, which no longer exists. Funding moved into BPAC 5138.														

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## Exhibit R-4, RDT&amp;E Schedule Profile

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BAO Kit Milestone FY06-FY11																											
FY04				FY06				FY07				FY08				FY09				FY10				FY11			
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
LITES							X																				
BRITES					X																						
SOFNET							X																				
BATMAN			X																								

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## Exhibit R-4a, RDT&amp;E Schedule Detail

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PROJECT NUMBER AND TITLE

5138 ST System Development

(U) **Schedule Profile**FY 2004FY 2005FY 2006FY 2007

(U) LITES &amp; SOFNET contract awards

4Q

(U) LITES IOC

4Q

(U) BRITES First Delivery

2Q

(U) SOFNET First Delivery

4Q

(U) BATMAN First Delivery

4Q