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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 United States Special Operations Command **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 1160481BB: <i>SOF Munitions</i>
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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	1.461	1.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.976
S800: <i>SO Munitions Advanced Development</i>	-	1.461	1.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.976

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

Beginning in FY 2014, this PE 1160481BB "SOF Munitions" has been consolidated in SOCOM PE 1160431BB "Warrior Systems."

A. Mission Description and Budget Item Justification

This program element provides for the advanced engineering operational system development and qualification efforts related to Special Operations Forces peculiar munitions and equipment. Funding supports development of Insensitive Munitions (IM) technology and evaluation, in accordance with statutory requirement set forth in U.S. Code, Title 10, Chapter 141, Section 2389 (December 2001). (Including bullet impact, fast cook off, fragment impact, slow cook off, sympathetic detonation, and shaped charge test.) Testing is in accordance with the United States Special Operations Command IM Strategic Plan. Funding also supports efforts to develop and improve Stand-Off Precision Guided Munitions (SOPGM); including the development and integration of improved warheads, seeker, guidance navigation and control systems operational flight software and missile delivery to meet SOF requirements.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	1.500	1.515	0.000	-	0.000
Current President's Budget	1.461	1.515	0.000	-	0.000
Total Adjustments	-0.039	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.039	-			

Change Summary Explanation

Funding:

FY 2012: Decrease of -\$0.039 million is due to a transfer to the Small Business Innovative Research transfer.

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FY 2013: None.		
FY 2014: None.		
Schedule: None.		
Technical: None.		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 United States Special Operations Command										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development					PE 1160481BB: SOF Munitions				S800: SO Munitions Advanced Development			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
S800: SO Munitions Advanced Development	-	1.461	1.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.976
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
This project funds advanced engineering, operational system development and qualification efforts related to specialized munitions and equipment												
Non-Standard Materiel (NSM). Provides for Insensitive Munitions (IM) technology development and evaluation that allows SOF munitions to pass testing which includes bullet impact, fragment impact, sympathetic detonation, fast cook off, slow cook off and shaped charge test. Testing is in accordance with the United States Special Operations IM Testing Plan.												
Stand-Off Precision Guided Munitions (SOPGM) provides for the development and improvement of SOF-unique SOPGMs.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: NSM									1.461	1.515	0.000	
FY 2012 Accomplishments: Conducted proof of principle and IM testing on various munitions. Continued testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006).												
FY 2013 Plans: Conduct proof of principle and IM testing on various munitions. Continue full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munition, 26 Sep 2006).												
Accomplishments/Planned Programs Subtotals									1.461	1.515	0.000	

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1: <i>ORDNANCE ACQUISITION</i>	32.381	36.981	0.000		0.000	0.000	0.000	0.000	0.000	0.000	69.362

Remarks

D. Acquisition Strategy

NSM: Munitions and packaging redesign shall take place within government laboratories, as well as in industry, depending on the munitions. IM solutions shall be tested on a small scale for proof of principle.

SOPGM: Using an incremental approach to increase munitions performance, leverage Industry's Internal Research and Development (IRAD) innovative efforts and pre-competed contracts to improve warhead, seeker, guidance navigation and control system, and missile delivery packaging shall take place in industry, as well as government laboratories. Solutions will be tested at comparative demonstrations and/or flight test events.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 United States Special Operations Command												DATE: April 2013			
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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NSM - Obtain Munitions Test Articles	C/FFP	General Dynamics:Canada	0.000	0.400	Jan 2012	0.418	Jan 2013	-		-		-	0.000	0.818	
Evaluation of IM	C/FFP	US Air Force Air Armaments Center:Elgin AFB	0.000	0.150	Jan 2012	0.150	Jan 2013	-		-		-	0.000	0.300	
Testing of IM	Allot	ARDEC:Picatinny Arsenal, NJ	0.000	0.911	Jan 2012	0.947	Jan 2013	-		-		-	0.000	1.858	
Subtotal			0.000	1.461		1.515		0.000		0.000		0.000	0.000	2.976	

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	1.461		1.515		0.000		0.000		0.000	0.000	2.976	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 United States Special Operations Command																DATE: April 2013			
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	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Non-Standard Materiel																												
Purchase Test Articles																												
Evaluation of Insensitive Munitions (IM)																												
Evaluation of IM																												
Testing of IM																												
Testing of IM																												
SOPGM																												
Evaluate Lethality Upgrades																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 United States Special Operations Command			DATE: April 2013
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Non-Standard Materiel</i>				
Purchase Test Articles	2	2012	2	2015
<i>Evaluation of Insensitive Munitions (IM)</i>				
Evaluation of IM	2	2012	4	2015
<i>Testing of IM</i>				
Testing of IM	2	2012	4	2015
<i>SOPGM</i>				
Evaluate Lethality Upgrades	2	2014	2	2015