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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0603627A: Smoke, Obscurant and Target Defeating Sys-Adv Dev							
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	-	4.572	2.725	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
E79: SMOKE/OBSCURANT SYSTEM	-	4.572	2.725	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

[#] 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

Change Summary Explanation: Funding - FY 13: Funds realigned to higher priority Army programs.

A. Mission Description and Budget Item Justification

Project supports Screening Obscuration Module (SOM) in the development and improvement of an array of obscurant agents, and devices to improve survivability of the combined armed forces, support extended range capability, complement combined weapon systems, and enhance force effectiveness and combat power. SOM will be man portable with plug and play technology to facilitate quick mounting and dismounted. This program element supports critical management studies, operational assessments, testing, prototyping, and analyses that are conducted on a continuing basis. To ensure that Technology Development efforts are targeted against the emerging threat. US Forces must be able to effectively neutralize and degrade energy weapon systems and electro-optical systems/smart weapons that operate in the full range of the electromagnetic spectrum. Improvements are sought across the entire multi-spectral range from visual through infrared (IR) and millimeter wavelengths (MMW) radar for incorporation into self-protection using generated and launched smoke systems.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	4.572	2.725	4.285	-	4.285
Current President's Budget	4.572	2.725	0.000	-	0.000
Total Adjustments	0.000	0.000	-4.285	-	-4.285
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-4.285	-	-4.285

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013								
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603627A: Smoke, Obscurant and Target Defeating Sys-Adv Dev				PROJECT E79: SMOKE/OBSCURANT SYSTEM								
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					
E79: SMOKE/OBSCURANT SYSTEM	-	4.572	2.725	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing					
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																	
Note																	
Not applicable for this item.																	
A. Mission Description and Budget Item Justification																	
Project supports Screening Obscuration Module (SOM) in the development and improvement of an array of obscurant agents, and devices to improve survivability of the combined armed forces, support extended range capability, complement combined weapon systems, and enhance force effectiveness and combat power.SOM will be man portable with plug and play technology to facilitate quick mounting and dismounted. This program element supports critical management studies,operational assessments,testing, prototyping, and analyses that are conducted on a continuing basis. To ensure that Technology Development efforts are targeted against the emerging threat. US Forces must be able to effectively neutralize and degrade energy weapon systems and electro-optical systems/smart weapons that operate in the full range of the electromagnetic spectrum. Improvements are sought across the entire multi-spectral range from visual through infrared (IR) and millimeter wavelengths (MMW) radar for incorporation into self-protection using generated and launched smoke systems.																	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014						
Title: SOM Engineering and Modeling Articles: Description: Engineering and Modeling for SOM systems. FY 2012 Accomplishments: Engineering and Modeling for SOM systems.									0.374 0	0.000	0.000						
Title: SOM Development. Articles: Description: SOM Development. FY 2012 Accomplishments:									1.485 0	1.303 0	0.000						

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603627A: Smoke, Obscurant and Target Defeating Sys-Adv Dev					PROJECT E79: SMOKE/OBSCURANT SYSTEM		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
SOM Development.												
FY 2013 Plans: SOM Development.												
Title: Test and Evaluation of SOM systems.										1.241	0.450	0.000
Articles:										0	0	
Description: Test and Evaluation of SOM systems.												
FY 2012 Accomplishments: Test and Evaluation of SOM systems.												
FY 2013 Plans: Test and Evaluation of SOM systems.												
Title: SOM Project Management Personnel										1.472	0.972	0.000
Articles:										0	0	
Description: Project Management												
FY 2012 Accomplishments: Project Management												
FY 2013 Plans: Project Management												
Accomplishments/Planned Programs Subtotals										4.572	2.725	0.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• SMOKE/OBSCURANT SYSTEM: Project 200 Smoke, Obscurant and Target Defeating Sys - Eng Dev										0.000	0.000	
• Target Defeating System: Project 198 Smoke, Obscurant and Target Defeating Sys - Eng Dev										0.000	0.000	

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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 ITEM NOMENCLATURE PE 0603627A: <i>Smoke, Obscurant and Target Defeating Sys-Adv Dev</i>			PROJECT E79: <i>SMOKE/OBSCURANT SYSTEM</i>			
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>
Remarks											
D. Acquisition Strategy Acquisition Strategy: Development of SOM systems to include design, construction, modeling and testing of prototypes. SOM acquisition strategy is to develop a small smoke generator that degrades the visual through near infrared portion of the Electro-Magnetic Spectrum. SOM program will focus on replacing current smoke pots to provide the Joint Land Forces with a medium area screening obscuration device. The initial increment, Increment 1, will focus on developing a SOM system capable of obscuring the Visual through Near IR wavelengths of the electromagnetic spectrum. Future SOM Increments 2 and 3 will incorporate bi-spectral and multi-spectral effects. The SOM has the capability to quickly produce (less than 15 seconds) medium duration (20 minutes), medium area (11 meters wide x 20 meters length x 5.25 meters height) screening obscuration effects, screening an area equivalent to three times the size of a large combat vehicle. The individual Soldier or team will employ the SOM devices on open and complex terrain; excluding enclosed areas. SOM will be deployed to accomplish the following mission types: avoid observation, defense of a battle position, and assault position.											
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)						R-1 ITEM NOMENCLATURE PE 0603627A: Smoke, Obscurant and Target Defeating Sys-Adv Dev						PROJECT E79: SMOKE/OBSCURANT SYSTEM			
Management Services (\$ 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
Project Management Personnel	MIPR	JPM:NBCCA	3.538	1.472	Dec 2011	0.972		-		-		-	Continuing	Continuing	Continuing
Subtotal			3.538	1.472		0.972		0.000		0.000		0.000			
Product Development (\$ 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
SOM Hardware Development	C/CPFF	JPM NBCCA, APG MD:Edgewood, MD	18.870	1.485	Dec 2011	1.303		-		-		-	Continuing	Continuing	Continuing
Subtotal			18.870	1.485		1.303		0.000		0.000		0.000			
Support (\$ 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
Engineering Modeling and Studies SOM	MIPR	Edgewood Chemical Biological Center:Edgewood, Md	1.964	0.374	Dec 2011	-		-		-		-	Continuing	Continuing	Continuing
Subtotal			1.964	0.374		0.000		0.000		0.000		0.000			
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
SOM Test & Evaluation	MIPR	OGA Various:Various	0.000	1.241	Dec 2011	0.450		-		-		-	Continuing	Continuing	Continuing
Subtotal			0.000	1.241		0.450		0.000		0.000		0.000			

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603627A: Smoke, Obscurant and Target Defeating Sys-Adv Dev					PROJECT E79: SMOKE/OBSCURANT SYSTEM				
		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		24.372	4.572		2.725		0.000		0.000		0.000			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY								R-1 ITEM NOMENCLATURE				PROJECT			
2040: Research, Development, Test & Evaluation, Army								PE 0603627A: Smoke, Obscurant and				E79: SMOKE/OBSCURANT SYSTEM			
BA 4: Advanced Component Development & Prototypes (ACD&P)								Target Defeating Sys-Adv Dev							

	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
SOM Developmental Testing #1																												
SOM Operational Assessment #1																												
SOM Corrective Actions/Redesign																												
SOM IPR																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603627A: <i>Smoke, Obscurant and Target Defeating Sys-Adv Dev</i>	PROJECT E79: <i>SMOKE/OBSCURANT SYSTEM</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
SOM Developmental Testing #1	2	2012	3	2012
SOM Operational Assessment #1	4	2012	4	2012
SOM Corrective Actions/Redesign	1	2013	4	2013
SOM IPR	4	2013	4	2013