

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

**February 2008**

<b>BUDGET ACTIVITY</b> <b>4 - Advanced Component Development and Prototypes</b>		<b>PE NUMBER AND TITLE</b> <b>0603627A - Smoke, Obscurant and Target Defeating Sys-Adv Dev</b>						<b>PROJECT</b> <b>E79</b>	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
E79 SMOKE/OBSCURANT SYSTEM	5314	9363	3840	18544	6457	6601	6749	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** Project supports the Component Advanced Development and System Integration developmental phases of high performance obscurant materials and systems to increase the survivability of the combined armed forces and to complement weapon systems. U.S. Forces must be able to defeat target acquisition, weapon guidance systems, and surveillance sensors across the electro-optical spectrum. These programs develop systems to provide large area and projected obscurant across the spectrum from visual through infrared and millimeter wavelength radar. The technologies supported by this program enhance obscurant systems as combat multipliers.

<b><u>Accomplishments/Planned Program:</u></b>	<b><u>FY 2007</u></b>	<b><u>FY 2008</u></b>	<b><u>FY 2009</u></b>
Conducted test and evaluation of Screening Obscurant Devices (SOD) alternatives.	2230	1752	
Initiate and continue environmental studies.	200	250	475
Initiate and continue SOD and SOM visible items development.	2584	6714	905
Conduct and complete SOD Milestone B.	300		
Initiate test and evaluation of SOM alternatives.		285	2010
Initiate and complete SOD visible Milestone C.		100	300
Initiate SOD infrared alternatives Milestone B.			150
Small Business Innovative Research/Small Business Technology Transfer Program		262	
<b>Total</b>	<b>5314</b>	<b>9363</b>	<b>3840</b>

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<u><b>B. Program Change Summary</b></u>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)	5426	19449	3865
Current BES/President's Budget (FY 2009)	5314	9363	3840
Total Adjustments	-112	-10086	-25
Congressional Program Reductions		-10086	
Congressional Recissions			
Congressional Increases			
Reprogrammings	40		
SBIR/STTR Transfer	-152		
Adjustments to Budget Years			-25

<u><b>C. Other Program Funding Summary</b></u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
New OFS item									

Comment:

**D. Acquisition Strategy** Acquisition Strategy: The Advanced Component Development effort acquisition strategy uses full and open competition and cost plus fixed fee (CPFF) contracting to test and build multispectral grenades and smart dischargers.

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
<b>4 - Advanced Component Development and Prototypes</b>			<b>0603627A - Smoke, Obscurant and Target Defeating Sys-Adv Dev</b>								<b>E79</b>	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs 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
Hardware Development		JPM NBCCA, APG, MD	3831	2432	1Q	3988	1-2Q				10251	
Hardware Development	C/CPFF TBD					3016	3Q	905	1Q		3921	
Subtotal:			3831	2432		7004		905			14172	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs 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
Environmental Tox Studies			300	200	2Q	200	2Q	475	2Q		1175	
SIBR Tax				152	1Q	234	1-2Q				386	
Subtotal:			300	352		434		475			1561	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs 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
SOD Eng Design Test		OGA Various	100								100	
SOD Test & Evaluation		OGA Various		2230	2Q	1540	2Q				3770	
SOM Test & Evaluation		OGA Various				285	2Q	2010	2Q		2295	
Subtotal:			100	2230		1825		2010			6165	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs 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

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Conduct/complete FOTOD Milestone A		JPMNBCCA, APG, MD	150								150
Conduct/complete SOD, V1,2 Milestone B		JPMNBCCA, APG, MD		300	3Q						300
Initiate/complete Milestone C, SOD Incr 1/2		JPMNBCCA, APG, MD				100	1-2Q	300	1-2Q		400
Initiate Milestone B/ SOD/SOM IR		JPMNBCCA, APG, MD						150	1-2Q		150
Subtotal:			150	300		100		450			1000
<b>Project Total Cost:</b>			<b>4381</b>	<b>5314</b>		<b>9363</b>		<b>3840</b>			<b>22898</b>

# Schedule Profile (R4 Exhibit)

February 2008

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
	(1) Milestone C (Screening Obscuration Devices -Visual Restricted Terrain (SOD-VR))					▲ 1																						
(2) Milestone C (SOD-Visual) Full Rate Production (FRP)						▲ 2																						
(3) Milestone B (SOD Bi-spectral) Contract Award (SOD Bi-spectral)										▲ 3				■														

**Schedule Detail (R4a Exhibit)**

**February 2008**

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<u>Schedule Detail</u>	<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>	
Milestone C (Screening Obscuration Devices - Visual Restricted Terrain (SOD-VR))		2Q						
Milestone C (SOD-Visual) Full Rate Production (FRP)			2Q					
Milestone B (SOD Bi-spectral)				2Q				
Contract Award (SOD Bi-spectral)				3Q				