

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2006

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604609A - Smoke, Obscurant and Target Defeating Sys-Eng Dev

COST (In Thousands)	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 Cost
Total Program Element (PE) Cost	3637	0	5297	6704	5649	481	480	0	41317
198 Target Defeating System	0	0	5297	6704	5649	481	480	0	19267
200 SMOKE/OBSCURANT SYSTEM	3637	0	0	0	0	0	0	0	22050

A. Mission Description and Budget Item Justification: Project 0604609A supports the conduct of System Development and Demonstration (SDD) of logistically supportable, high performance smoke and obscurants, munitions, and devices to improve the survivability of the combined armed force and complement combined weapons systems. The program element supports critical management studies and analyses that are conducted on a continuing basis to ensure that engineering and manufacturing development efforts are targeted against the emerging threat. Program element supports the conduct of SDD in smoke and obscurant agents, munitions, and devices to improve the survivability of the combined armed forces, complement combined weapon systems, and enhance force effectiveness and combat power.

U.S. 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 large area and projected smoke systems. The smoke obscuration technologies supported by this program element enhance smoke systems as force multipliers.

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<u>B. Program Change Summary</u>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	3639	0	5216
Current BES/President's Budget (FY 2007)	3637	0	5297
Total Adjustments	-2	0	81
Congressional Program Reductions			
Congressional Rescissions	-2		
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years			

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)								February 2006																															
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604609A - Smoke, Obscurant and Target Defeating Sys-Eng Dev				PROJECT 198																															
COST (In Thousands)	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 Cost																														
198 Target Defeating System	0	0	5297	6704	5649	481	480	0	19267																														
<u>A. Mission Description and Budget Item Justification:</u> Project 0604609A supports the conduct of System Development and Demonstration (SDD) of smoke and obscurants to provide current and next generation obscurant systems operating at extended distances to disrupt, disable and defeat the threat reconnaissance, surveillance, targeting and acquisition capabilities. Funding supports the development of systems to appropriately deliver distant obscurant to the battlefield. This will provide options to commanders that are effective and efficient throughout the battlespace.																																							
<u>Accomplishments/Planned Program</u>						<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>																															
FY07: Prepare, conduct and complete Milestone B.						0	0	2133																															
FY07: Award SDD contract.						0	0	3164																															
Total						0	0	5297																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;"><u>B. Other Program Funding Summary</u></td> <td style="text-align: center; padding: 5px;">FY 2005</td> <td style="text-align: center; padding: 5px;">FY 2006</td> <td style="text-align: center; padding: 5px;">FY 2007</td> <td style="text-align: center; padding: 5px;">FY 2008</td> <td style="text-align: center; padding: 5px;">FY 2009</td> <td style="text-align: center; padding: 5px;">FY 2010</td> <td style="text-align: center; padding: 5px;">FY 2011</td> <td style="text-align: center; padding: 5px;">To Compl</td> <td style="text-align: center; padding: 5px;">Total Cost</td> </tr> <tr> <td style="padding: 5px;">RDTE, A, Budget Activity 2, PE 0602622A, Project 552</td> <td style="text-align: center; padding: 5px;">3175</td> <td style="text-align: center; padding: 5px;">2519</td> <td style="text-align: center; padding: 5px;">2573</td> <td style="text-align: center; padding: 5px;">2690</td> <td style="text-align: center; padding: 5px;">2749</td> <td style="text-align: center; padding: 5px;">2793</td> <td style="text-align: center; padding: 5px;">2832</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">19331</td> </tr> <tr> <td style="padding: 5px;">Other Procurement Army, OPA 3, MX1000, Family of Tactical Obscuration Devices</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">0</td> <td style="text-align: center; padding: 5px;">24232</td> <td style="text-align: center; padding: 5px;">38449</td> <td style="text-align: center; padding: 5px;">25620</td> <td style="text-align: center; padding: 5px;">12337</td> <td style="text-align: center; padding: 5px;">CONT</td> <td style="text-align: center; padding: 5px;">CONT</td> </tr> </table>										<u>B. Other Program Funding Summary</u>	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost	RDTE, A, Budget Activity 2, PE 0602622A, Project 552	3175	2519	2573	2690	2749	2793	2832	0	19331	Other Procurement Army, OPA 3, MX1000, Family of Tactical Obscuration Devices	0	0	0	24232	38449	25620	12337	CONT	CONT
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<u>C. Acquisition Strategy</u> Engineering development will begin in FY07 with a full and open competition contract for engineering design, construction and testing of prototype systems.																																							

ARMY RDT&E COST ANALYSIS (R3)										February 2006		
BUDGET ACTIVITY				PE NUMBER AND TITLE							PROJECT	
5 - System Development and Demonstration				0604609A - Smoke, Obscurant and Target Defeating Sys-Eng Dev							198	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Hardware Development	TBD	TBD	0	0		0		3164	3Q	0	0	0
Subtotal:			0	0		0		3164		0	0	0
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Engineering support of hardware development.	OGA	RDECOM, ECBC, Edgewood, MD	0	0		0		1133	1Q	0	0	0
Subtotal:			0	0		0		1133		0	0	0
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0									
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Conducted Management Studies.	Inhouse	JPM, NBCCA, APG, Edgewood, MD	328	0		0		0		0	328	0
Prepare and conduct Milestone B.	Inhouse	JPM, NBCCA, APG, Edgewood, MD	0	0		0		1000	1Q	0	1000	0
Subtotal:			328	0		0		1000		0	1328	0

Schedule Profile (R4 Exhibit)																	February 2006															
BUDGET ACTIVITY					PE NUMBER AND TITLE																	PROJECT										
5 - System Development and Demonstration					0604609A - Smoke, Obscurant and Target Defeating Sys-Eng Dev																	198										
Event Name					FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11			
					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
Design and Fabricate Systems for EDT																																
Conduct EDT																																
Redisgn and Fabricate Systems for POT																																
Conduct LOG Demo																																
Conduct POT																																
(1) Milestone C																																

Schedule Detail (R4a Exhibit)						February 2006	
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604609A - Smoke, Obscurant and Target Defeating Sys-Eng Dev					PROJECT 198
<u>Schedule Detail</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>
Design & Fabricate Systems for EDT			1-4Q				
Conduct EDT				1-2Q			
Redesign & Fabricate Systems for PQT				2-4Q			
Conduct LOG Demo				4Q			
Conduct PQT				4Q	1-3Q		
Milestone C					4Q		