

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604609A - Smoke, Obscurant and Target Defeating Sys - Eng Dev			
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	1302	5584	978	Continuing	Continuing
198 Target Defeating System	1302	5584		Continuing	Continuing
200 SMOKE/OBSCURANT SYSTEM			978	Continuing	Continuing

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 forces, support extended range capability 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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BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604609A - Smoke, Obscurant and Target Defeating Sys - Eng Dev

<u>B. Program Change Summary</u>	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	1339	5603	478
Current BES/President's Budget (FY 2010)	1302	5584	978
Total Adjustments	-37	-19	500
Congressional Program Reductions		-19	
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-37		
Adjustments to Budget Years			500

Change Summary Explanation: Funding - FY 2010: Funding increase in support of Smoke/Obscurant Systems.

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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 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
198 Target Defeating System	1302	5584		Continuing	Continuing

A. Mission Description and Budget Item Justification: Project supports the development and improvement of an array of obscurant agents, munitions, 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. This 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. 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 large area and launched smoke systems. The smoke obscuration technologies supported by this program element enhance smoke systems as force multipliers.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Conducted Limited Objective Experiment.	1077		
Prepare and conduct Milestone A.	225	450	
Prepare and award modeling and simulation (M&S) contract.		550	
Concept Development of Projected/Generated Obscuration Capability.		4427	
Small Business Innovative Research/Small Business Technology Transfer Program.		157	
Total	1302	5584	

B. Other Program Funding Summary Not applicable for this item.

C. Acquisition Strategy System Development and Demonstration will begin in FY09 with a full and open competition contract for engineering design, construction and testing of prototype systems.

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May 2009

BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604609A - Smoke, Obscurant and Target Defeating Sys - Eng Dev			PROJECT 200	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
200 SMOKE/OBSCURANT SYSTEM			978	Continuing	Continuing

A. Mission Description and Budget Item Justification: This project supports the development and improvement of an array of obscurant agents, munitions, 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. This 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. 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 large area and launched smoke systems.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Continue development of Screening Obscuration Devices (SOD) alternatives.			578
Continue test and evaluation of SOD and alternatives.			100
Continue development and refinement of SOM alternatives.			300
Total			978

<u>B. Other Program Funding Summary</u>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
RDTE, A Budget Activity 2, PE 0602622A, Project 552 Smoke/Novel Munitions				Continuing	Continuing
Modification MMW MA4501	2994		529		4000

Comment:

C. Acquisition Strategy Contract initiated in FY 2000 with a full and open competitive contract for engineering design, construction, and testing of prototype systems.