Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army

R-1 ITEM NOMENCLATURE

APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army

PE 0602303A: MISSILE TECHNOLOGY

DATE: February 2011

BA 2: Applied Research

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	69.871				50.685					•	Continuing
214: MISSILE TECHNOLOGY	49.398	49.525	50.685	-	50.685	50.822	45.862	51.481	41.706	Continuing	Continuing
223: AERO-PROPULSION TECHNOLOGY	7.560	-	-	-	-	-	-	-	-	Continuing	Continuing
G04: AIR DEFENSE TECHNOLOGIES (CA)	10.427	-	-	-	-	-	-	-	-	Continuing	Continuing
G05: MISSILE TECHNOLOGY INITIATIVES (CA)	2.486	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

FY12 funding increase to support higher priority efforts.

A. Mission Description and Budget Item Justification

This program element (PE) designs, fabricates and evaluates advanced component technologies for tactical missiles, rockets, guided munitions, and their launch systems in order to increase lethality, precision, and effectiveness under adverse battlefield conditions while reducing system cost, size and weight. Major goals in Project 214 include enhancing the survivability of the munition, launch and fire control systems, and forward operating bases; increasing kill probabilities against diverse targets; and providing advanced simulation and virtual prototyping analysis tools. Projects 223, G04, and G05 fund congressional special interest items.

The work in this PE is complimentary to PE 0603313A (Missile and Rocket Advanced Technology), and fully coordinated with PE 0602624A (Weapons and Munitions Technology), PE 0603004A (Weapons and Munitions Advanced Technology), PE 0602618A (Ballistics Technology, Robotics Technology), PE 0602307A (Advanced Weapons Technology), and PE 0708045A (End Item Industrial Preparedness Activities).

The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.

The work in this PE is performed by the Aviation and Missile Research, Development, and Engineering Center (AMRDEC), Huntsville, AL.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY	

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	70.924	49.525	45.426	-	45.426
Current President's Budget	69.871	49.525	50.685	-	50.685
Total Adjustments	-1.053	-	5.259	-	5.259
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
Congressional Rescissions	-	-			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-1.053	-			
 Adjustments to Budget Years 	-	-	5.259	-	5.259

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Exhibit R-2A, RDT&E Project Jus	stification: PE	3 2012 Army							DATE: Febr	uary 2011	
APPROPRIATION/BUDGET ACTI 2040: Research, Development, Te- BA 2: Applied Research		n, Army		R-1 ITEM N PE 0602303		TURE TECHNOL	OGY	PROJECT 214: MISSI	LE TECHNO	LOGY	
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
214: MISSILE TECHNOLOGY	49.398	49.525	50.685	_	50.685	50.822	45.862	51.481	41.706	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project designs, fabricates, and evaluates missile and rocket component technologies that support demonstration of affordable, lightweight, highly lethal missiles and rockets. Major areas of research include missile guidance components and subsystems; target acquisition systems; multi-spectral seekers; high-fidelity simulations; missile aerodynamics and structures; missile launch and fire control technologies; and missile propulsion including research to help solve the insensitive munitions requirements. A theme embedded throughout the efforts in this project is smaller, lighter, and cheaper (SLC) missile technology to reduce the cost and logistics burden of precision munitions. Major products of this PE transition to PE 0603313A (Missile and Rocket Advanced Technology).

The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.

Work in this project is performed by the Aviation and Missile Research, Development, and Engineering Center (AMRDEC), Huntsville, AL.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: Embedded Deeply Integrated Guidance & Navigation Unit (eDIGNU)	7.296	-	-
Description: This effort built on previous High-G (gravitational force) micro-electromechanical systems (MEMS) Inertial Measurement Unit (IMU) and DIGNU research. The Embedded DIGNU incorporated the following: a next generation Selective Availability Anti-Spoofing Module (SAASM); enhanced anti-jam (A/J) capability; full system-on-a-chip technology for processor and memory to reduce DIGNU size; more robust deep integration algorithms; and improved inertial performance. This task was conducted in two phases in order to enable the first generation technology to be evaluated while the second generation design was matured.			
FY 2010 Accomplishments: Completed evaluation of the first generation inertial sensor assembly design and integrated with the eDIGNU to verify requirements were met. Evaluated IMU deliverables that included new gyro and accelerometer sensors, electronics, and packaging improvements. Evaluated the eDIGNU second generation deliverables that included a full system-on-a-chip module; increased A/J capability; updated software for the new inertial sensor assembly; and implemented algorithm improvements.			
Title: Smaller, Lighter, Cheaper Tactical Missile Technologies	7.720	8.548	12.764

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY	PROJEC 214: MIS	JECT MISSILE TECHNOLOGY		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Description: This effort designs and evaluates innovative smaller system concepts to reduce precision missile cost per kill and/or log technologies transition to PE 0603313A for maturation.					
FY 2010 Accomplishments: Designed nano/advanced composite mounting brackets to reduce and trade studies for a small height of burst sensor (HOBS) design miniaturized electronics packaging design for small lightweight mis (ESAD) architecture for small lightweight precision munitions; and insensitive munition compliant motor.	n that provides lethality against soft targets; continued ssiles; evaluated common Electronic Safe and Arm D	d evice			
FY 2011 Plans: Design, fabricate, and evaluate sample composite mounting brack and reduce weight; tailor common ESAD design for upgrades to T Javelin missiles; complete small ESAD design, fabrication and cor and single chip inertial sensor designs for small precision munition	ube-launched, Optically-tracked, Wire-guided (TOW) mponent evaluation; design and evaluate candidate s	and			
FY 2012 Plans: Will perform trade studies and begin initial critical component design that can detect and maintain track of the direction north; will conduct trade studies for small, low cost components for precision generation of precision weapon systems including: 1) reduced cost seeker technologies for increased detection range; 3) lethality technology for multiple mission	uct initial packaging of single chip inertial sensor mod munitions; will design component technologies for that, advanced light weight materials; 2) reduced cost, a nnologies for performance against increased target se	ule; will e next dvanced			
Title: Target Classification Sensors, Advanced Fuzing Technology	y and Warhead Integration		5.250	3.815	-
Description: This effort designs and demonstrates a low cost iner (e.g., heavy armor, light armor, bunker) on impact, and advanced optimizing the warhead effectiveness based on target class. The of from the collaborative Multi-Mode, Multi-Effect warhead effort designs.	fuzing technology to use target classification sensor of determination of the different target classifications will	data for be derived			
FY 2010 Accomplishments: Completed design and fabrication of the second generation target Evaluated the inertial sensors ability to identify three different target preliminary design and fabrication of the third generation sensor was accomplished.	et material classes (heavy armor, light armor, and sai	nd). Began			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY	PROJECT 214: <i>MISS</i>	SILE TECHNOLOGY		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
integrated fuze and bench evaluation equipment for sensor demonstrate sensor demonstrate sensor fuze-level safety evaluation in preparation for warhead integration of with warheads to assess performance; and performed inert demonstrate sensor function against target materials.	demonstrations; performed static evaluations of the f	uze			
FY 2011 Plans: Determine the ability of the third generation target classification ser with the Armaments Research, Development, and Engineering Cer classification sensor with miniaturized electronics to reduce the ser real-time. Integrate sensor with advanced fuzing technology and de hardware and/or an air gun to impact the sensor with target material	nter (ARDEC). Integrate the improved third generationsor footprint in a hardened package that can operate emonstrate in the lab with explosively driven reverse	on target e in			
Title: Missile Guidance Systems and Seeker Technology			11.466	-	,
Description: This effort focuses on the design and evaluation of methodologies including software; and information and signal process Missile Seeker Technology and Missile Guidance and Controls Technology	sing. Beginning in FY11, these efforts are captured i				
FY 2010 Accomplishments: Initiated the design of infrared and millimeter wave radar target acquired imagery and image feature data. Completed the synthetic aperture Gyro system, which designs an independent navigation solution us location data when Global Positioning System navigation data is not solve the complete of the complete o	radar design and began evaluation; and designed the sing camera imagery and terrain databases to provid	ne Image			
Title: Missile Seeker Technology			-	9.952	9.15
Description: This effort focuses on the design and maturation of m	nissile seekers, sensors, and software.				
FY 2011 Plans: Design and evaluate affordable phased array and next-generation missile fire control sensors, tactical seekers, and data links; mature missile shelf-life; and validate low cost synthetic aperture radar (SA)	e technologies to monitor missile system health to ex				
FY 2012 Plans: Will begin to address thermal issues for affordable phased array se seeker operating power levels; will begin integration of affordable pappropriate power levels and in a form factor for missile application	phased array technologies to demonstrate a seeker a	rray with			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY	PROJEC 214: MIS	SILE TECHN	OLOGY	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
components including technologies for thermal loading reduction to r infrared seekers; will evaluate missile system health monitor perform SAR evaluation test-bed for demonstration of tactical missile applica	ance in a relevant environment; will design reconfi				
Title: Missile Guidance and Controls Technologies			-	6.961	7.428
Description: This effort designs and develops guidance, navigation, information and signal processing systems for rocket and missile app		i			
FY 2011 Plans: Design image gyro system using camera imagery and terrain databate available from the global positioning system; develop miniaturized guidata combination for infrared and millimeter wave multi-mode seeken navigation systems developed under the Enhanced Deeply Integrated	uidance electronics; simulate imagery and image for algorithm development; and complete evaluation of	eature of inertial			
FY 2012 Plans: Will integrate image gyro system hardware and software for captive to environmental evaluation of a one-piece, integrated optical data pipe stabilization hardware module for transition to the Small Organic Pre investigate technologies for increased accuracy and precision of acc System denied environment; and will complete data combination for development.	e module; will design enhanced miniaturized image cision Munition effort in PE 0603313 Project 263; w eleration measurements for navigation in a Global	vill Positioning			
Title: High Fidelity System Level Simulations and Missile Health Mor	nitoring		1.917	2.933	3.059
Description: This effort designs advanced simulation and aerodynal weight, and cost in missile systems; and designs advanced health m					
FY 2010 Accomplishments: Transitioned initial solar infrared simulator components to PE 06033 development; continued extension of aerodynamic prediction codes subsonic airfoil design and characterization.					
FY 2011 Plans: Continue improving methods for subsonic airfoil design and character prediction codes; collect wind tunnel data on multiple airframe design					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE : Fe	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY	PROJEC 214: <i>MIS</i>	SILE TECHN		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
and techniques; design advanced simulation technologies to ena enable more reliable micro-electromechanical missile component		nologies to			
FY 2012 Plans: Will design aerodynamic prediction codes for hypersonic flight, design aerodynamics, and inlet aerodynamics; will design integrated based linking missile component models to system capability; will design future missile systems.	seline system engineering tool for system-level simula	ations			
Title: Smart, Stealthy, and Smokeless Missile Propulsion, Smart	Structures and Enhanced Lethality		5.546	4.965	4.20
Description: This effort designs enabling technologies to advance increased lethality, and improved structural integrity of light weight meet insensitive munition requirements have degraded performa ranges and decreased time-to-target. FY 2010 Accomplishments:	nt missile cases. Advanced minimum smoke propellan	its that			
Demonstrated and validated missile control thruster analysis tool multi-point initiation warheads; and conducted evaluation to determine the conducted evaluation the conducted evaluation to determine the conducted evaluation to determine the conducted evaluation the conducted evaluation to determine the conducted evaluation the conducted eva		; fabricated			
FY 2011 Plans: Perform a flight demonstration of a variable yield warhead agains Multiple Launch Rocket System; investigate feasibility of using expropulsion to regain performance while maintaining insensitive m	xisting and new propellant ingredients in missile and re				
FY 2012 Plans: Will demonstrate high performance propellants; will perform signator the signature metrics; and will develop, screen for sensitivity,		a baseline			
Title: Defense against Rockets, Artillery and Mortars (RAM) - Inte	erceptor Development		2.916	-	-
Description: This effort designs and develops enabling missile ceffort in PE 0603313A.	component technologies to transition to the Defense a	gainst RAM			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY	PROJEC 214: MIS	T SILE TECHN	OLOGY	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Completed bench level evaluation and integration of component to developed and integrated flight guidance and control software into under PE 0603313A.					
Title: Multi-Role Missile Component Design			7.287	9.533	9.854
Description: This effort focuses on critical technology and compositive overwhelming defeat of conventional and asymmetrical than demonstrated in PE 603313A Project 263.					
FY 2010 Accomplishments: Investigated, designed, and evaluated component technologies to packages, and electronics; 2) designed more efficient, advanced for lethal effects and non-lethal payload options; performed high-frequirements definition, and performance evaluations of the spectactical missions.	propulsion; and 3) explored advanced warhead integrifidelity modeling and simulation to support trade-studies	ation es,			
FY 2011 Plans: Refine, fabricate, and evaluate components and subsystems incluelectronics; 2) more efficient, advanced propulsion; 3) warhead in perform trade studies to determine the component technologies to	ntegration and lethal effects including non-lethal payloa				
FY 2012 Plans: Will continue to evaluate components and subsystem technologie electronics, seekers, and sensors; 2) more efficient and insensitiv munitions; 3) warhead integration for effects against diverse targe fire evaluation, and, appropriate test-beds to determine compone missions; will continue trade studies to optimize component, subs	ve munitions compliant propulsion systems for small grets; and 4) fire control using hardware-in-the-loop eval nt and subsystem performance as well as suitability to	uided uation, live-			
Title: Swarming Missile Technology			-	1.710	2.918
Description: This effort evaluates advanced sensors, guidance, swarming missile concepts against individual as well as large arra	•	v-cost			
FY 2011 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011
	R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY	PROJECT 214: MISSI	LE TECHNOLOGY

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Define swarming missile mission concepts to derive and define key performance parameters for these missions; identify key component technologies for design and demonstration.			
FY 2012 Plans: Will finalize key component technology identification based on trade studies performed; will begin key component technology design; will begin guidance and control algorithm design to support attack of large arrays of targets; will evaluate options for low cost advanced sensor design for tracking of large arrays of targets.			
Title: Structural Electronics	-	1.108	1.308
Description: This effort investigates innovative processes to embed electrical connections into the missile case structure for use in smaller missile designs.			
FY 2011 Plans: Investigate mechanical and electrical properties of emerging approaches to embed electrical connections in curved forms regarding their applicability to missile structure and component design.			
FY 2012 Plans: Will fabricate and evaluate sample missile electronics subsystems based on prior year results, will evaluate suitability for missile system application; and will document design guidelines based on results.			
Accomplishments/Planned Programs Subtotals	49.398	49.525	50.685

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

N/A

D. Acquisition Strategy

N/A

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-2A, RDT&E Project Justification: PB 2012 Army										DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research				R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY				PROJECT 223: AERO-PROPULSION TECHNOLOGY				
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost	
223: AERO-PROPULSION TECHNOLOGY	7.560	-	-	-	-	-	-	-	-	Continuing	Continuing	

A. Mission Description and Budget Item Justification

Congressional Interest Item funding provided for Aero-Propulsion Technology.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: Mariah II Hypersonic Wind Tunnel Development Program	7.560	-	-
Description: This is a Congressional Interest Item.			
FY 2010 Accomplishments: Supported component technology development to enable a hypersonic wind tunnel capable of a full 60 seconds of operation at fully duplicated flight conditions.			
Accomplishments/Planned Programs Subtotals	7.560	-	_

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

N/A

D. Acquisition Strategy

N/A

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-2A, RDT&E Project Jus	stification: PB	3 2012 Army							DATE : Feb	ruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research								PROJECT G04: AIR DEFENSE TECHNOLOGIES (CA)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
G04: AIR DEFENSE TECHNOLOGIES (CA)	10.427	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

Congressional Interest Item funding provided for Air Defense Technologies.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: D-NET: Electrically Charged Mesh (ECM) Defense Net Troop Protection System	5.971	-	-
Description: This is a Congressional Interest Item.			
FY 2010 Accomplishments: Supported development of a helicopter active protection system concept consisting of a lauchable net to intercept incoming threats and defeat via mechanical and/or electrical discharge.			
Title: Portable Sensor for Toxic Gas Detection	2.069	-	-
Description: This is a Congressional Interest Item.			
FY 2010 Accomplishments: Improved the repeatability and sensitivity of microsensors utilized for chemical detection.			
Title: Swarms Defense System	2.387	-	-
Description: This is a Congressional Interest Item.			
FY 2010 Accomplishments: Develops and explores advanced sensor, guidance and control, and C2 concepts/technologies for employing missile swarms against individual and/or large arrays of air and ground targets.			
Accomplishments/Planned Programs Subtotals	10.427	_	-

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

N/A

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE : February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research	R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY	PROJECT G04: AIR DEFENSE TECHNOLOGIES (CA)
E. Performance Metrics		
Performance metrics used in the preparation of this justification	n material may be found in the FY 2010 Army Perform	ance Budget Justification Book, dated May 2010.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army									DATE: February 2011		
				R-1 ITEM NOMENCLATURE PE 0602303A: MISSILE TECHNOLOGY				PROJECT G05: MISSILE TECHNOLOGY INITIATIVES (CA)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
G05: MISSILE TECHNOLOGY INITIATIVES (CA)	2.486	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

Congressional Interest Item funding provided for Missile Technologies Initiatives applied research.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: Novel Lightweight Armor Material for Insensitive Munitions Protection of Tactical Missiles	2.486	-	-
Description: This is a Congressional Interest Item.			
FY 2010 Accomplishments:			
Developed lightweight, low-cost endothermic armor with applicability to launchers/canisters.			
Accomplishments/Planned Programs Subtotals	2.486	-	_

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

N/A

D. Acquisition Strategy

N/A

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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